

(2)

LITIGATION TECHNICAL SUPPORT AND SERVICES
ROCKY MOUNTAIN ARSENAL

AD-A271 685



DRAFT FINAL REPORT
ABANDONED WELL PROGRAM
VERSION 2.0
VOLUME IV

DTIC
ELECTE
OCT 26 1993
S A D

September 1988
Contract No. DAAK11-84-D-0017
Task Number 37

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Prepared for:

U.S. ARMY PROGRAM MANAGER'S OFFICE FOR
ROCKY MOUNTAIN ARSENAL CONTAMINATION CLEANUP

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REPORT DOCUMENTATION PAGE

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13. ABSTRACT (Maximum 200 words)
THE OBJECTIVES OF TASK 37 ARE TO LOCATE, EXAMINE, AND PROPERLY CLOSE WELLS ON RMA THAT MAY BE ALLOWING, OR COULD POTENTIALLY ALLOW, MIGRATION OF CONTAMINATION FROM UPPER AQUIFERS TO DEEP AQUIFERS. THE TECHNICAL APPROACH WAS STRUCTURED IN SUCH A WAY THAT UNUSED WELLS WERE CLOSED ON A PRIORITIZED BASIS ACCORDING TO POTENTIAL TO ADVERSELY IMPACT DEEP AQUIFERS. THE STUDY AREA WAS LIMITED TO THOSE AREAS OF RMA THAT ARE WITHIN OR DOWNGRADEMENT OF POTENTIAL SOURCES OF CONTAMINATION. A TOTAL OF 39 WELLS WERE CLOSED UNDER TASK 37. CLOSURE METHODS FOLLOWED STANDARD PROCEDURES IN CURRENT USE.
INFORMATION IN THIS REPORT INCLUDES:
1. CRITERIA FOR PRIORITIZATION
2. PROCEDURES FOR CLOSURE
3. WELL LOCATION AND COORDINATES
4. WELL LOGS
5. WELL CLOSURE LOGS.

14. SUBJECT TERMS
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20. LIMITATION OF ABSTRACT

APPENDIX G

(Continued)

Approved For	
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DATE	
TIME	
BY	
DATE	
DATE	
A-1	

First Level Field Search Priority List.

WELL NUMBER: 31001

LOCATION: Twnshp 2 S Rng 66 W Section 31
Qtr NE Qtr NW

In plume	(15)
Downgradient of plume	10
Outside plume, not downgradient	5

AQUIFER: _____

Arapahoe or Arapahoe and any other aquifer	15
Denver and alluvium	10
Denver	5
Alluvium	(3)

AGE: _____

pre-1942	10
post-1942	(5)

DEPTH: _____ feet

Greater than 200 feet	10
100 to 200 feet	5
less than 100 feet	(1)

ADDITIONAL: _____

Requested	25
Physically hazardous	10

TOTAL (search if $\geq$ 25 points, 75 maximum): 24

First Level Field Search Priority List.

WELL NUMBER: 31004

LOCATION: Twnshp 2 S Rng 66 W Section 31
Qtr SW Qtr SW

In plume	(15)
Downgradient of plume	10
Outside plume, not downgradient	5

AQUIFER: _____

Arapahoe or Arapahoe and any other aquifer	15
Denver and alluvium	10
Denver	(5)
Alluvium	3

AGE: _____

pre-1942	10
post-1942	(5)

DEPTH: _____ feet

Greater than 200 feet	10
100 to 200 feet	5
less than 100 feet	(1)

ADDITIONAL: _____

Requested	25
Physically hazardous	10

TOTAL (search if ≥ 25 points, 75 maximum): 26

Well Located

Water Sampling Criteria.

WELL NUMBER: 31004

LOCATION: Twnshp 2 S Rng 67 W Section 31
SW Qtr SW Qtr

WELL CONSTRUCTION: _____

Well construction details known (5)
Well construction details unknown 0

ASSOCIATED CONTAMINANTS: _____

In plume or within one-half mile of plume (5)
Beyond one-half mile from plume 0

AQUIFER: _____

Arapahoe or Denver (5)
Alluvium 0

ASSOCIATED WELLS: _____

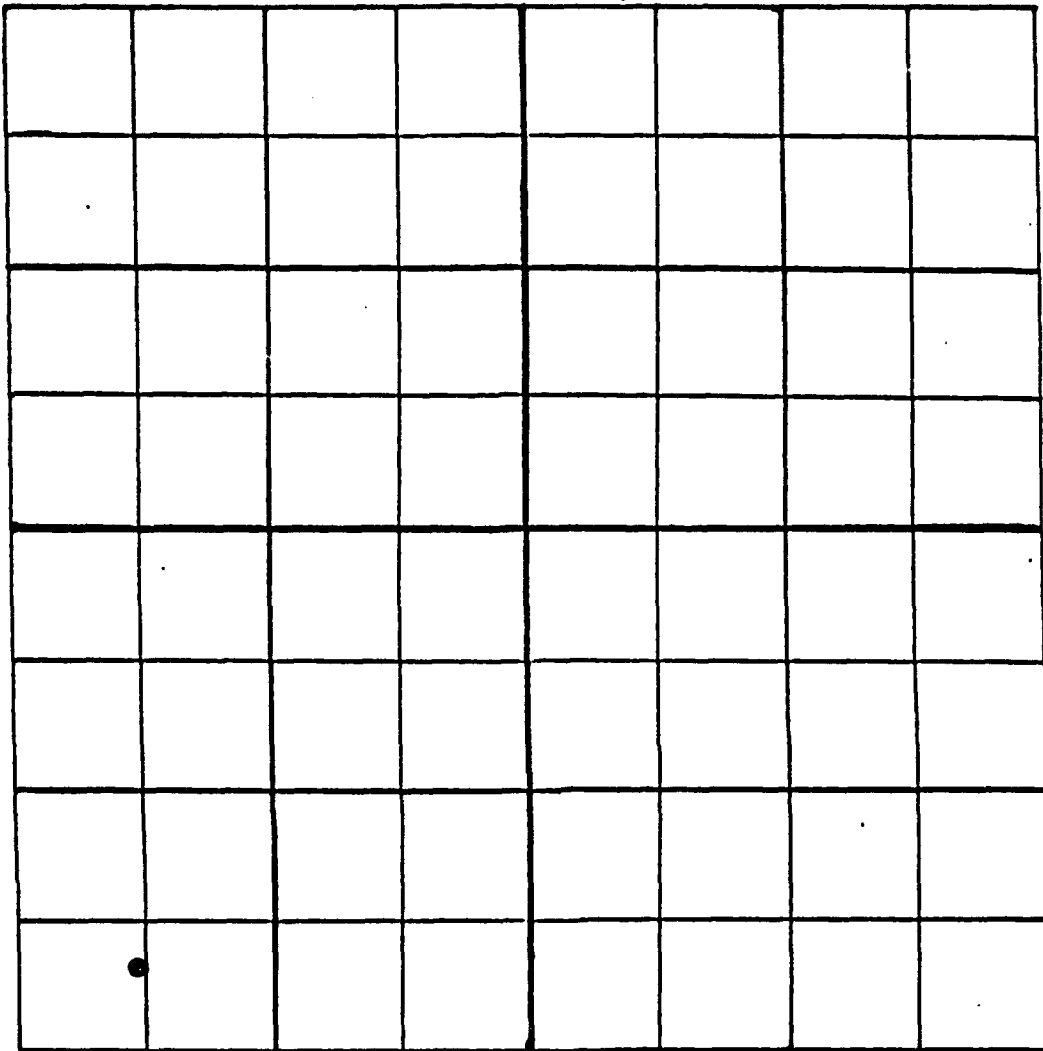
Not near wells into same aquifer 5
Near many wells into the same aquifer (0)

TOTAL* (will be sampled if total = 20): 15

* Requests for specific wells to sample have been solicited from concerned parties and will be evaluated on a case by case basis.

Well Location Diagram:

Well # 31004
Sec. # 31



SW1/4 of SW1/4 of SW1/4 of Sec. 31 T2S R66W



← 750' →

Well # 31004

Well Location Description:

Section # 31

Located well according to the location indicated in the RIC
Section Plots and Well Summary Report.

Surface Casing Diameter = 6 in.

Casing Diameter = 2 in.

Casing Type = PVC

Open Depth = 92 ft.

Height above Land Surface = 2.9 ft.

Depth To Water = 19.9 ft.

Notes = WELL IS CAPPED

Well Not Closed

First Level Field Search Priority List.

WELL NUMBER: 31A01

LOCATION: Twnshp 2 S Rng 66 W Section 31
Qtr SW Qtr SW

In plume	15
Downgradient of plume	10
Outside plume, not downgradient	5

AQUIFER: _____

Arapahoe or Arapahoe and any other aquifer	15
Denver and alluvium	10
Denver	5
Alluvium	3

AGE: _____

pre-1942	10
post-1942	5

DEPTH: _____ feet

Greater than 200 feet	10
100 to 200 feet	5
less than 100 feet	1

ADDITIONAL: _____

Requested	25
Physically hazardous	10

TOTAL (search if ≥ 25 points, 75 maximum): 29

Well Not Located

Second Level Field Search Priority List.

WELL NUMBER: 31401

LOCATION: Twnshp 2 S Rng 66 W Section 31
Qtr SW Qtr SW

FIRST LEVEL FIELD SEARCH PRIORITY: _____

Greater than 40
25 to 40

15
8

AQUIFER*: _____

Denver or Arapahoe
Alluvium

5
0

ASSOCIATED CONTAMINANTS: _____

More than one plume
One plume
Downgradient of plume
Outside plume, not downgradient

15
10
5
2

APPLICABILITY OF ALTERNATE METHOD: _____

Suitable methodology
Potential problems

10
1

ASSOCIATED WELLS: _____

Several to be located
Solitary well

10
4

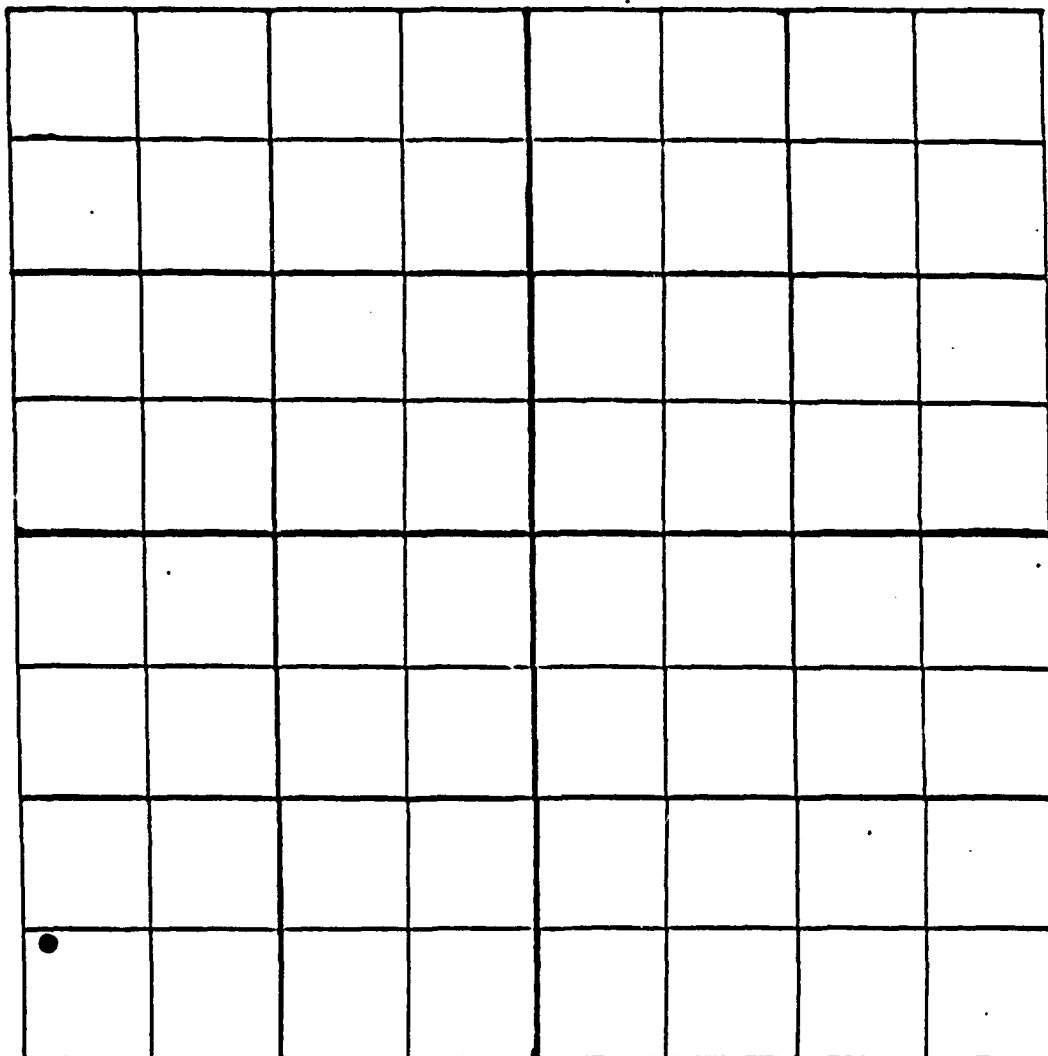
ADDITIONAL: _____
Requested 25

TOTAL (search if ≥ 30 points, 75 maximum): 28

* Inferred from depth if unknown

Well Location Diagram:

Well # 31A01
Sec. # 31



SW1/4 of SW1/4 of SW1/4 of Sec. 31 T2S R66W



First Level Field Search Priority List.

WELL NUMBER: 31A02

LOCATION: Twnshp 2 S Rng 66 W Section 31
Qtr NW Qtr NW

In plume	(15)
Downgradient of plume	10
Outside plume, not downgradient	5

AQUIFER: _____

Arapahoe or Arapahoe and any other aquifer	15
Denver and alluvium	0
Denver	5
Alluvium	(3)

AGE: _____

pre-1942	(10)
post-1942	5

DEPTH: _____ feet

Greater than 200 feet	10
100 to 200 feet	5
less than 100 feet	(1)

ADDITIONAL: _____

Requested	25
Physically hazardous	10

TOTAL (search if $\geq$ 25 points, 75 maximum): 29

Well Located

Water Sampling Criteria.

WELL NUMBER: 31A02

LOCATION: Twnshp 2 S Rng 66 W Section 31
NW qtr NW qtr

WELL CONSTRUCTION: _____

Well construction details known 5
Well construction details unknown (0)

ASSOCIATED CONTAMINANTS: _____

In plume or within one-half mile of plume (5)
Beyond one-half mile from plume 0

AQUIFER: _____

Arapahoe or Denver 5
Alluvium (0)

ASSOCIATED WELLS: _____

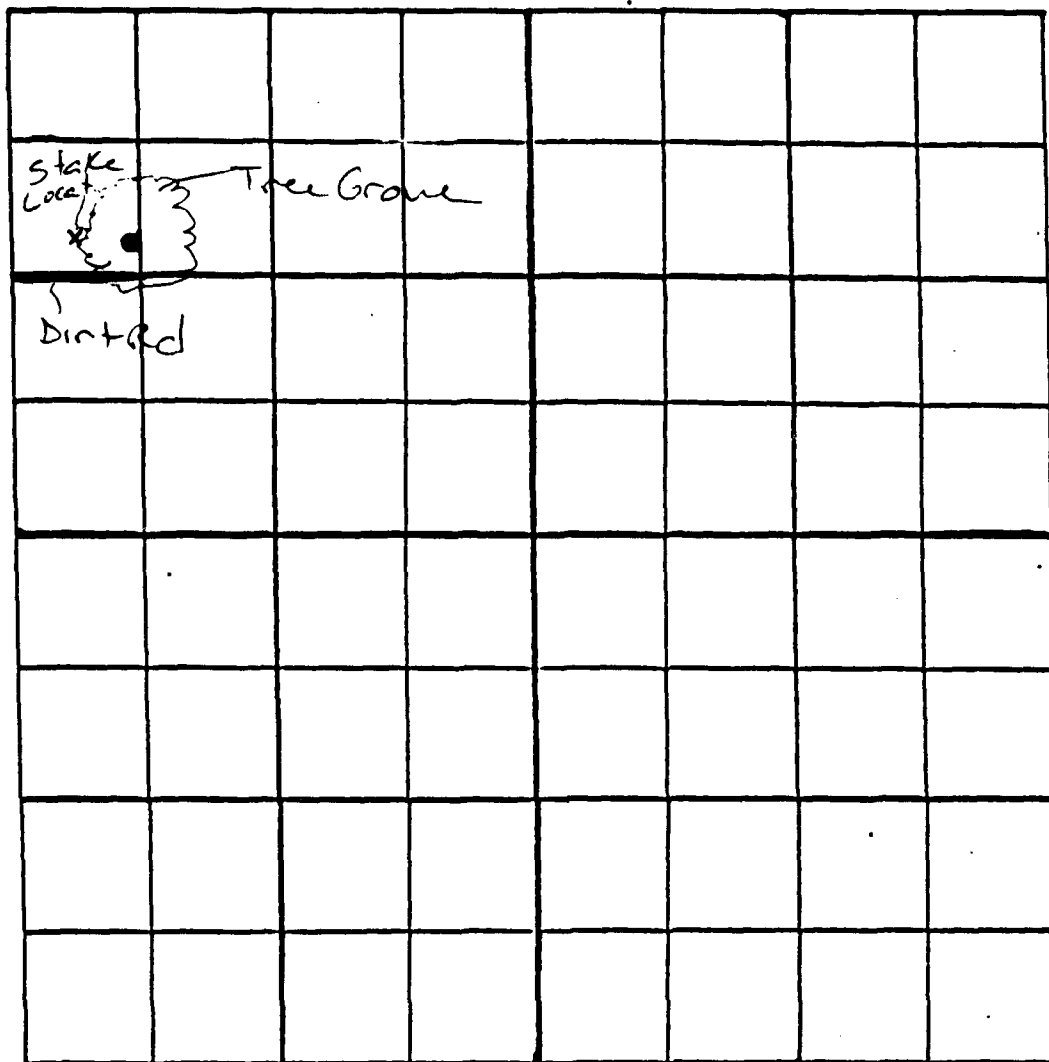
Not near wells into same aquifer 5
Near many wells into the same aquifer (0)

TOTAL* (will be sampled if total = 20): 5

* Requests for specific wells to sample have been solicited from concerned parties and will be evaluated on a case by case basis.

Well Location Diagram:

Well # 31A02
Sec. # 31



SW 1/4 of NW 1/4 of NW 1/4 of Sec. 31 T2 S R66 W



Well # 31A02

Well Location Description:

Section # 31

LOCATED WELL APPROXIMATELY 0.25 miles
S AND 600 FT E OF NW SECTION
CORNER, 50 FT FROM THE WEST
EDGE OF A GROVE OF TREES &
SCRUB OAK.

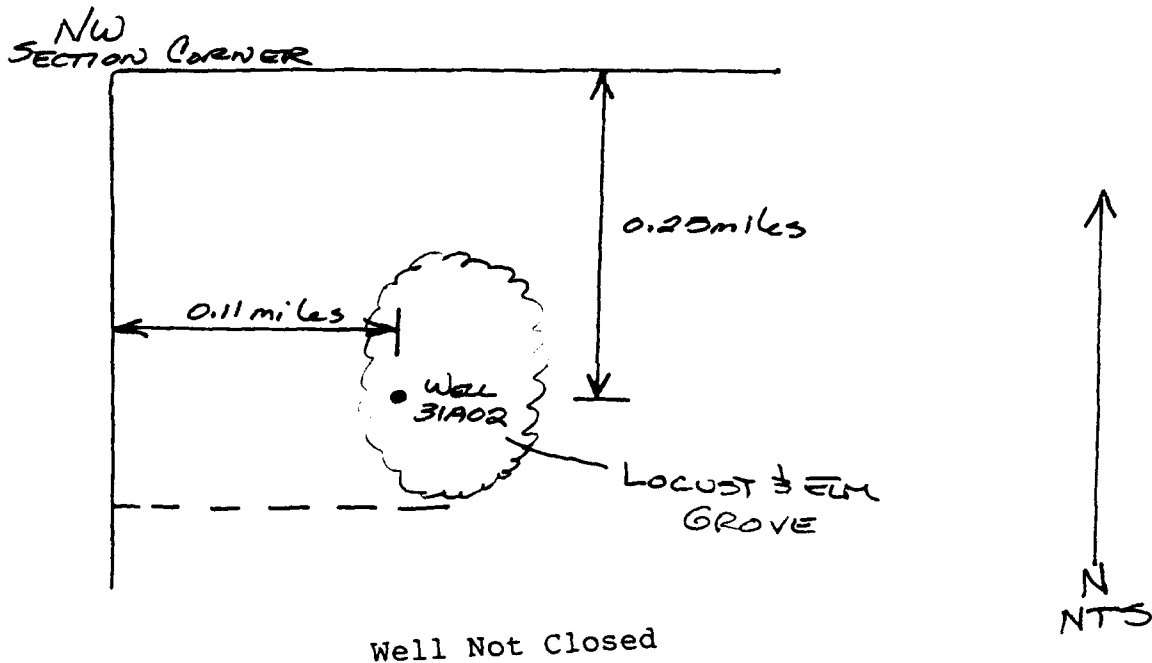
CASING DIAM = 5 in

CASING TYPE = STEEL $\frac{1}{8}$ in THICK

OPEN DEPTH = 2.7 FT

HEIGHT = 0.4 FT.

REPORTED DEPTH = 26 FT



First Level Field Search Priority List.

WELL NUMBER: 31A03

LOCATION: Twnshp 2 S Rng 66 W Section 31
Qtr NW Qtr NW

In plume	(15)
Downgradient of plume	10
Outside plume, not downgradient	5

AQUIFER: ?

Arapahoe or Arapahoe and any other aquifer	(15)
Denver and alluvium	10
Denver	5
Alluvium	3

AGE: _____

pre-1942	(10)
post-1942	5

DEPTH: ? feet

Greater than 200 feet	(10)
100 to 200 feet	5
less than 100 feet	1

ADDITIONAL: _____

Requested	25
Physically hazardous	10

TOTAL (search if $\geq$ 25 points, 75 maximum): 50

Well Not Located

Second Level Field Search Priority List.

WELL NUMBER: 31A03

LOCATION: Twnshp 2 S Rng 66 W Section 31
Qtr NW Qtr NW

FIRST LEVEL FIELD SEARCH PRIORITY: _____

Greater than 40 15
25 to 40 (8)

AQUIFER*: _____

Denver or Arapahoe 5
Alluvium (0)

ASSOCIATED CONTAMINANTS: _____

More than one plume (15)
One plume 10
Downgradient of plume 5
Outside plume, not downgradient 2

APPLICABILITY OF ALTERNATE METHOD: _____

Suitable methodology 10
Potential problems (1)

ASSOCIATED WELLS: _____

Several to be located 10
Solitary well (4)

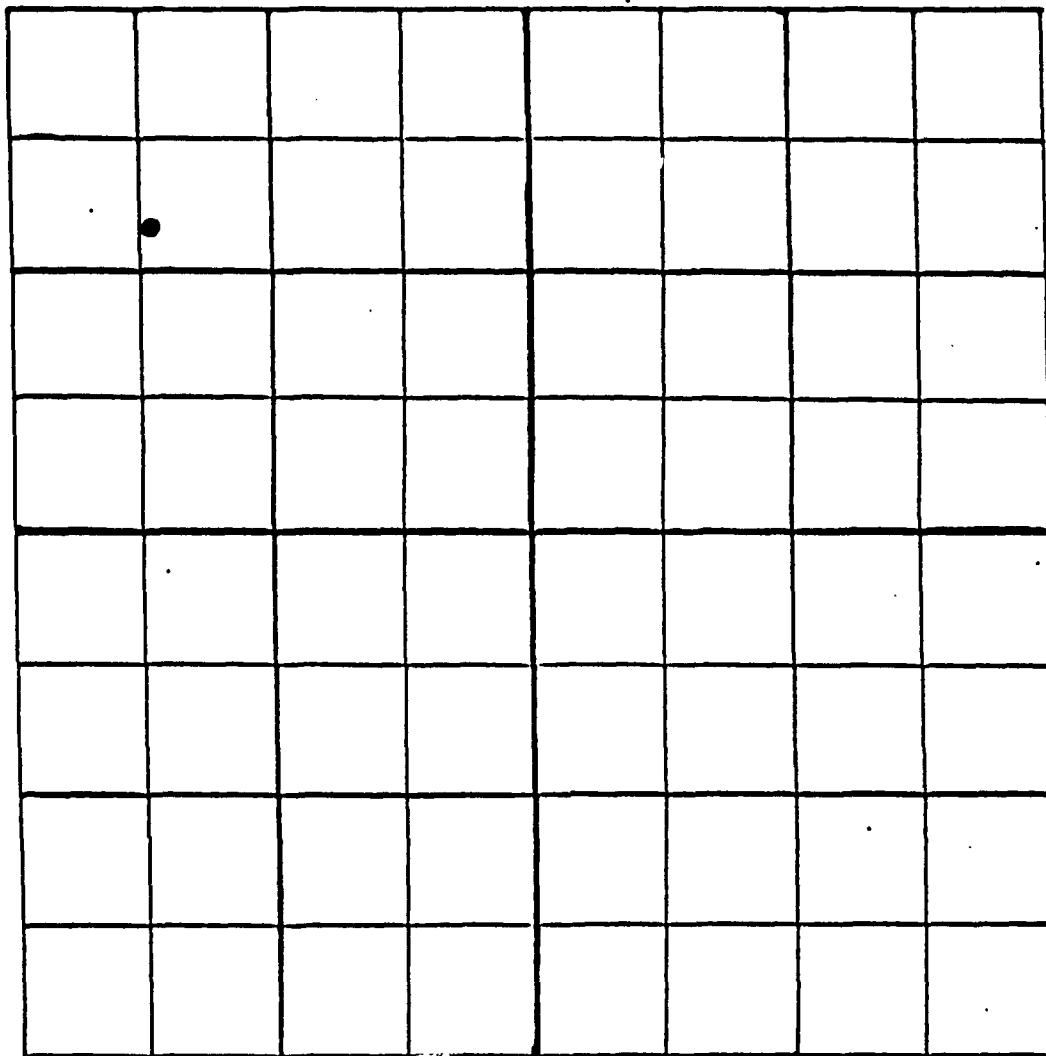
ADDITIONAL: _____
Requested 25

TOTAL (search if ≥ 30 points, 75 maximum): 28

* Inferred from depth if unknown

Well Location Diagram:

Well # 31403
Sec. # 31



SE 1/4 of NW 1/4 of NW 1/4 of Sec. 31 T2 S R6 W



First Level Field Search Priority List.

WELL NUMBER: 31A04

LOCATION: Twnshp 2 S Rng 66 W Section 31
Qtr NW Qtr NW

In plume	(15)
Downgradient of plume	10
Outside plume, not downgradient	5

AQUIFER: _____

Arapahoe or Arapahoe and any other aquifer	15
Denver and alluvium	10
Denver	5
Alluvium	(3)

AGE: _____

pre-1942	(10)
post-1942	5

DEPTH: _____ feet

Greater than 200 feet	10
100 to 200 feet	5
less than 100 feet	(1)

ADDITIONAL: _____

Requested	25
Physically hazardous	10

TOTAL (search if ≥ 25 points, 75 maximum): 29

Well Located

Water Sampling Criteria.

WELL NUMBER: 31A04

LOCATION: Twnshp 2 S Rwy 66 W Section 31
NW Qtr NW Qtr

WELL CONSTRUCTION: _____

Well construction details known 5
Well construction details unknown (0)

ASSOCIATED CONTAMINANTS: _____

In plume or within one-half mile of plume (5)
Beyond one-half mile from plume 0

AQUIFER: _____

Arapahoe or Denver 5
Alluvium (0)

ASSOCIATED WELLS: _____

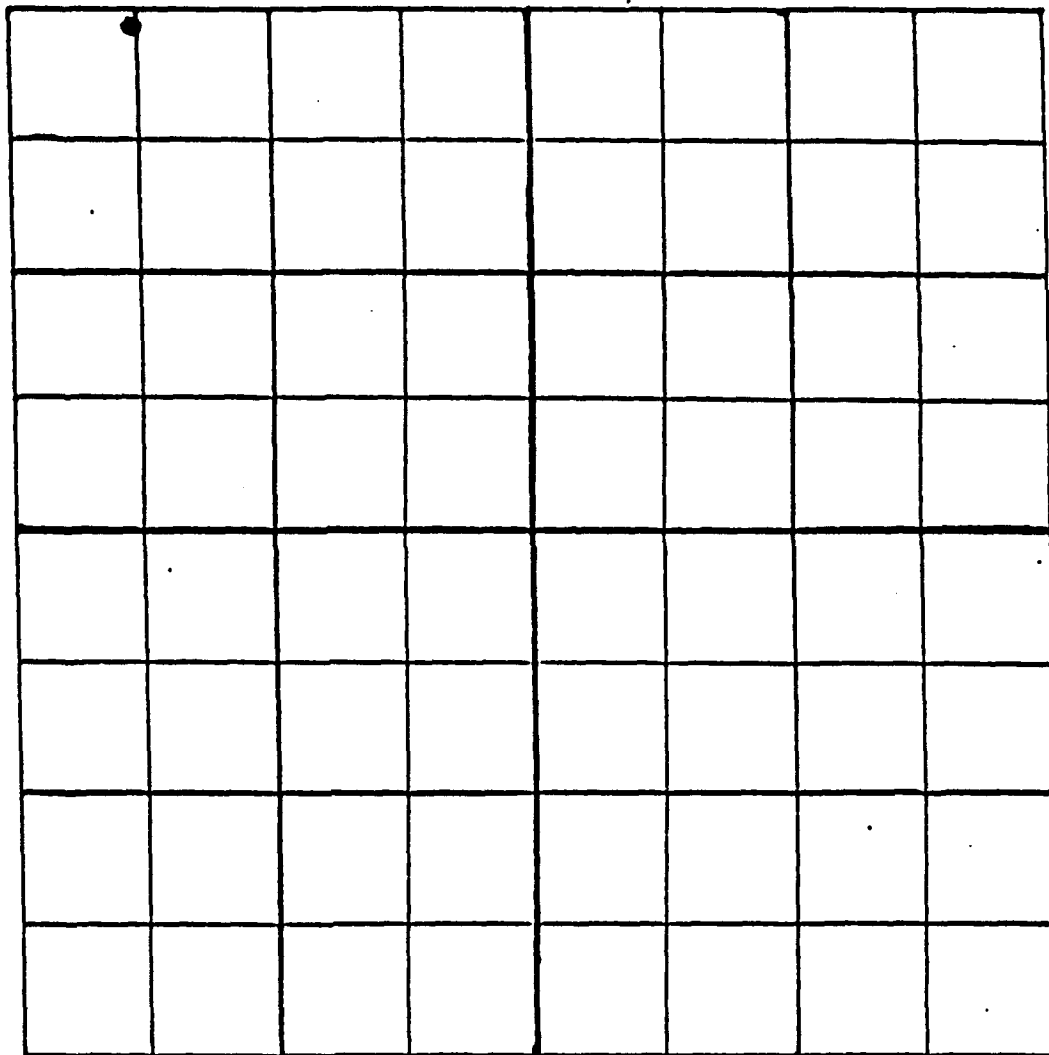
Not near wells into same aquifer 5
Near many wells into the same aquifer (0)

TOTAL* (will be sampled if total = 20): 5

* Requests for specific wells to sample have been solicited from concerned parties and will be evaluated on a case by case basis.

Well Location Diagram:

Well # 31A04
Sec. # 31



NW 1/4 of NW 1/4 of NW 1/4 of Sec. 31 T2 S R66 W



Well # 31A04

Well Location Description:

Section # 31

LOCATED WELL APPROXIMATELY 0.1 mile
S AND 680 FT E OF NW SECTION
CORNER (200 FT S OF RAILROAD TRACKS)

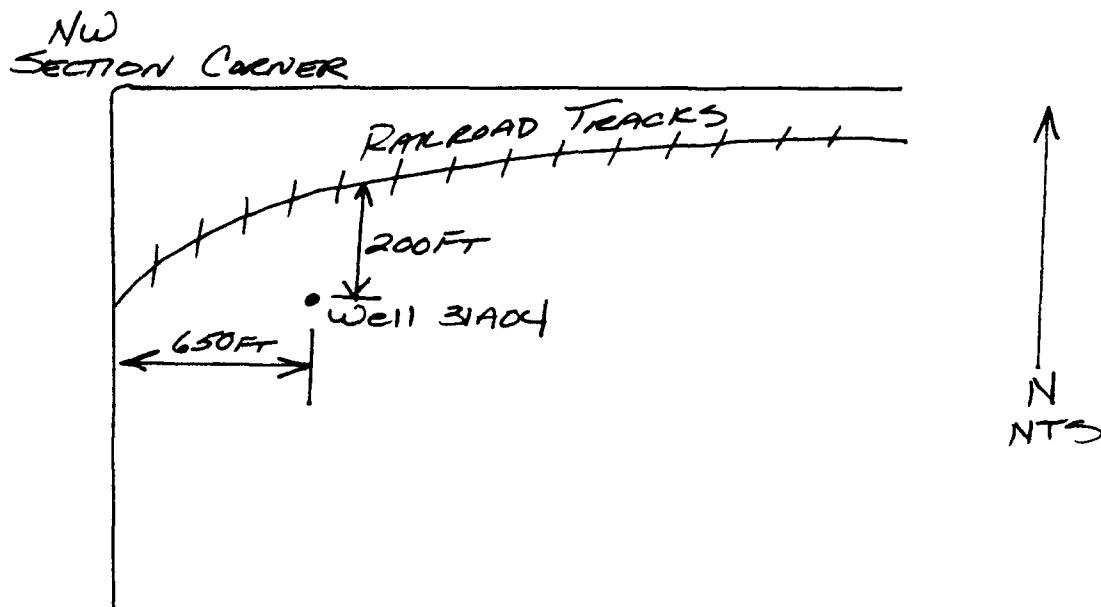
CASING DIAM = 12 in

CASING TYPE = GALVANIZED $\frac{1}{16}$ in THICK

OPEN DEPTH = 29 FT

HEIGHT = 1.09 FT

REPORTED DEPTH = 40 FT



Well Not Closed

First Level Field Search Priority List.

WELL NUMBER: 31A05

LOCATION: Township 2 S Rng 66 W Section 31
Qtr SE Qtr SE

In plume	15
Downgradient of plume	10
Outside plume, not downgradient	<u>5</u>

AQUIFER: _____

Arapahoe or Arapahoe and any other aquifer	15
Denver and alluvium	<u>10</u>
Denver	5
Alluvium	3

AGE: _____

pre-1942	<u>10</u>
post-1942	5

DEPTH: _____ feet

Greater than 200 feet	10
100 to 200 feet	5
less than 100 feet	<u>1</u>

ADDITIONAL: _____

Requested	25
Physically hazardous	10

TOTAL (search if $\geq$ 25 points, 75 maximum): 26

Well Not Located

Second Level Field Search Priority List.

WELL NUMBER: 31A05

LOCATION: Twnshp 2 S Rng 66 W Section 31
Qtr SE Qtr SE

FIRST LEVEL FIELD SEARCH PRIORITY: _____

Greater than 40
25 to 40

15
8

AQUIFER*: _____

Denver or Arapahoe
Alluvium

5
0

ASSOCIATED CONTAMINANTS: _____

More than one plume
One plume
Downgradient of plume
Outside plume, not downgradient

15
10
5
2

APPLICABILITY OF ALTERNATE METHOD: _____

Suitable methodology
Potential problems

10
1

ASSOCIATED WELLS: _____

Several to be located
Solitary well

10
4

ADDITIONAL: _____

Requested

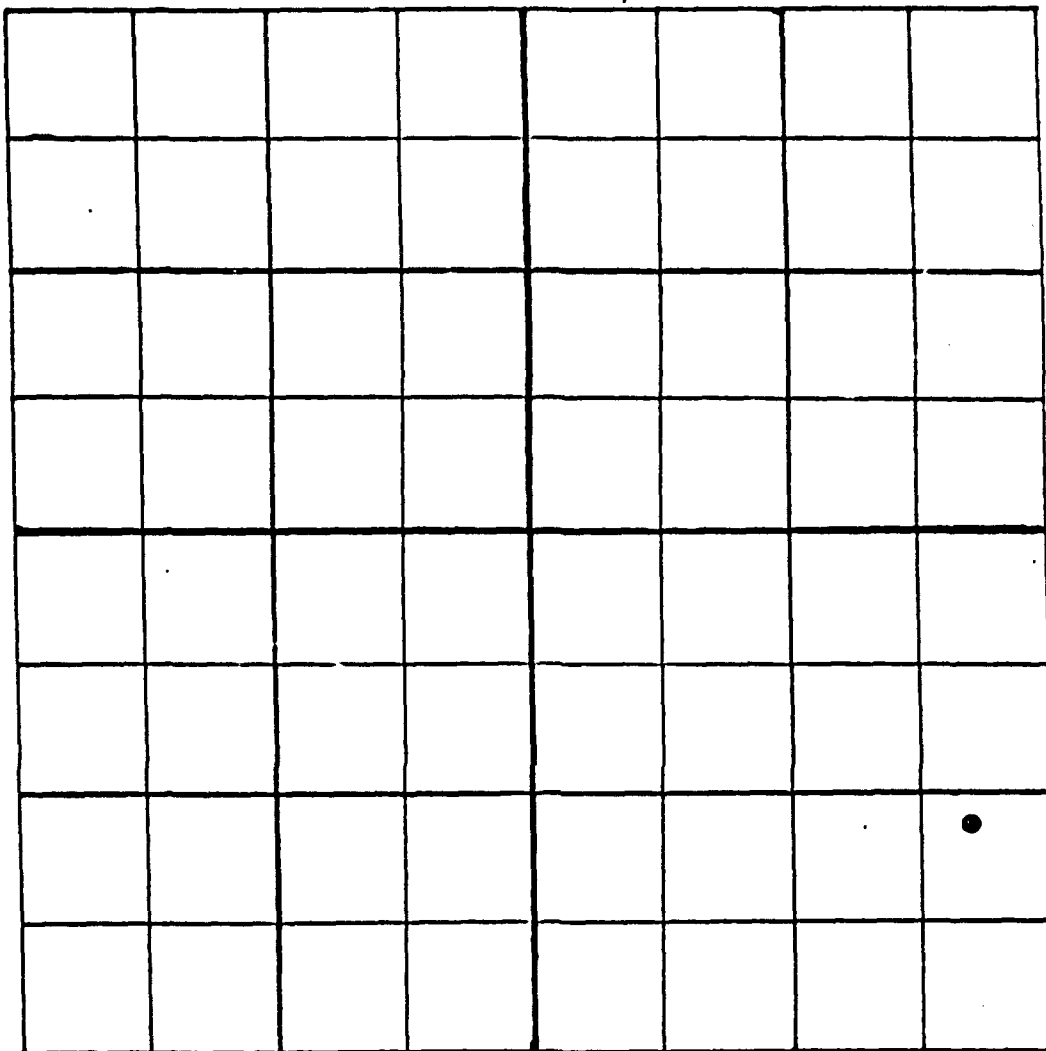
25

TOTAL (search if ≥ 30 points, 75 maximum): 26

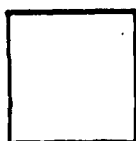
* Inferred from depth if unknown

Well Location Diagram:

Well # 31A05
Sec. # 31



NE 1/4 of SE 1/4 of SE 1/4 of Sec. 31 T ⁶⁴ 2 S R 5 W



← 750' →

First Level Field Search Priority List.

WELL NUMBER: 31A06

LOCATION: Twnshp 2 S Rng 66 W Section 31
Qtr SE Qtr SE

In plume	15
Downgradient of plume	10
Outside plume, not downgradient	(5)

AQUIFER: _____

Arapahoe or Arapahoe and any other aquifer	15
Denver and alluvium	(10)
Denver	5
Alluvium	3

AGE: _____

pre-1942	(10)
post-1942	5

DEPTH: _____ feet

Greater than 200 feet	10
100 to 200 feet	5
less than 100 feet	(1)

ADDITIONAL: _____

Requested	25
Physically hazardous	10

TOTAL (search if ≥ 25 points, 75 maximum): 26

Well Not Located

Second Level Field Search Priority List.

WELL NUMBER: 31A06

LOCATION: Twnshp 2 S Rng 66 W Section 31
Qtr SE Qtr SE

FIRST LEVEL FIELD SEARCH PRIORITY: _____

Greater than 40
25 to 40

15
8

AQUIFER*: _____

Denver or Arapahoe
Alluvium

5
0

ASSOCIATED CONTAMINANTS: _____

More than one plume
One plume
Downgradient of plume
Outside plume, not downgradient

15
10
5
2

APPLICABILITY OF ALTERNATE METHOD: _____

Suitable methodology
Potential problems

10
1

ASSOCIATED WELLS: _____

Several to be located
Solitary well

10
4

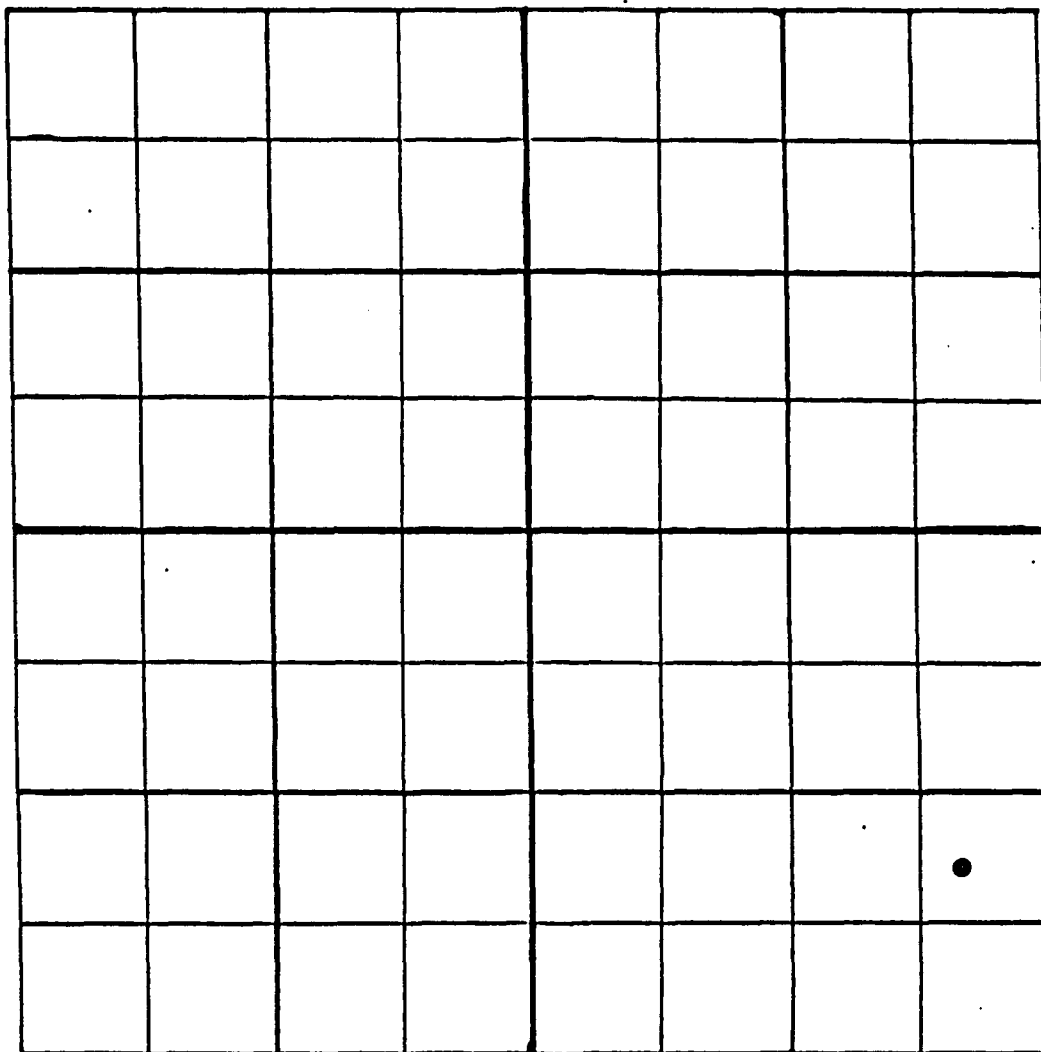
ADDITIONAL: _____
Requested 25

TOTAL (search if ≥ 30 points, 75 maximum): 26

* Inferred from depth if unknown

Well Location Diagram:

Well # 31A06
Sec. # 31



NE 1/4 of SE 1/4 of SE 1/4 of Sec. 31 T2S R66W



← 750' →

First Level Field Search Priority List.

WELL NUMBER: 31A07

LOCATION: Twnshp 2 S Rng 66 W Section 31
Qtr SE Qtr SE

In plume	15
Downgradient of plume	10
Outside plume, not downgradient	5

AQUIFER: _____

Arapahoe or Arapahoe and any other aquifer	15
Denver and alluvium	10
Denver	5
Alluvium	3

AGE: _____

pre-1942	10
post-1942	5

DEPTH: _____ feet

Greater than 200 feet	10
100 to 200 feet	5
less than 100 feet	1

ADDITIONAL: _____

Requested	25
Physically hazardous	10

TOTAL (search if ≥ 25 points, 75 maximum): 24

Well Not Located

Second Level Field Search Priority List.

WELL NUMBER: 31A07

LOCATION: Twnshp 2 S Rng 66 W Section 31
Qtr SE Qtr SE

FIRST LEVEL FIELD SEARCH PRIORITY: _____

Greater than 40
25 to 40

15
8

AQUIFER*: _____

Denver or Arapahoe
Alluvium

5
0

ASSOCIATED CONTAMINANTS: _____

More than one plume
One plume
Downgradient of plume
Outside plume, not downgradient

15
10
5
2

APPLICABILITY OF ALTERNATE METHOD: _____

Suitable methodology
Potential problems

10
1

ASSOCIATED WELLS: _____

Several to be located
Solitary well

10
4

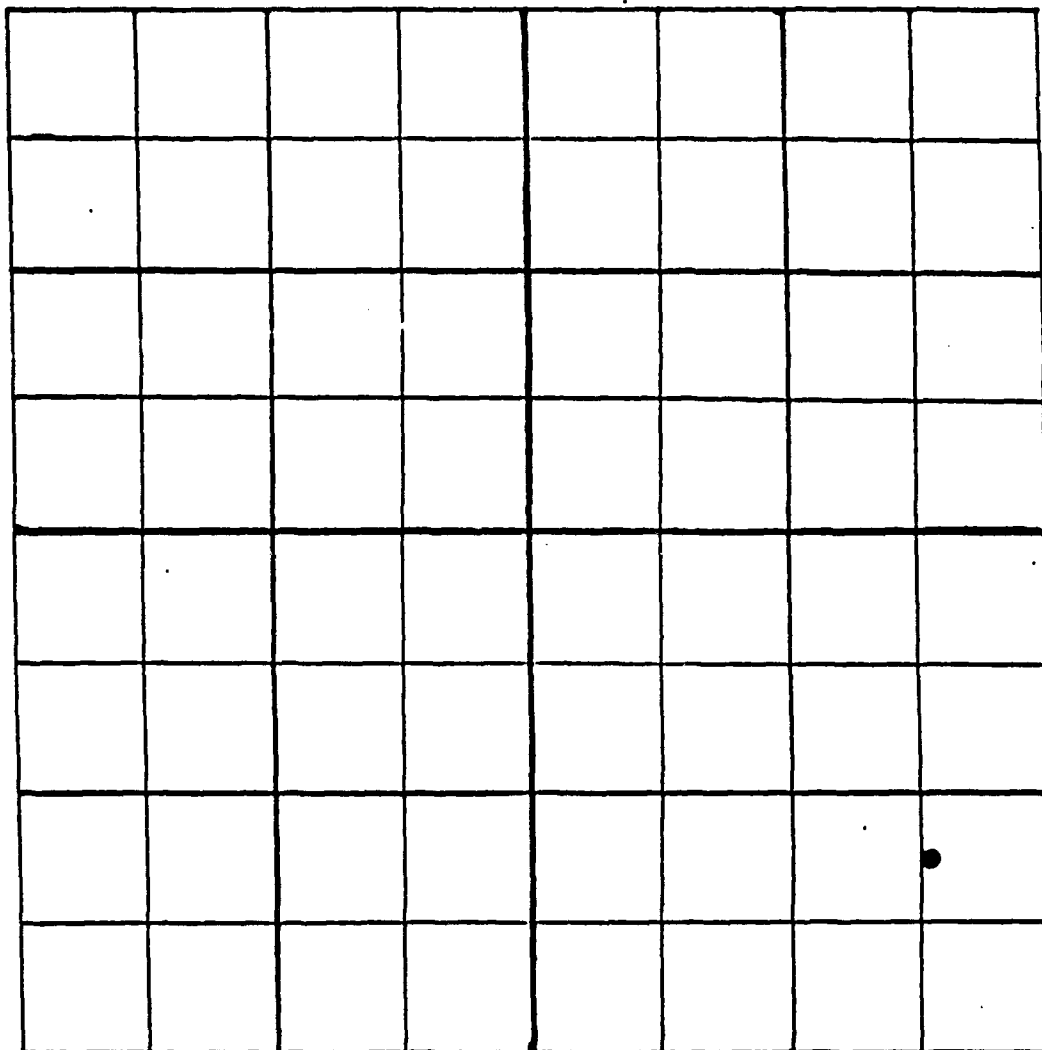
ADDITIONAL: _____
Requested 25

TOTAL (search if ≥ 30 points, 75 maximum): 26

* Inferred from depth if unknown

Well Location Diagram:

Well # 31A07
Sec. # 31



NE $\frac{1}{4}$ of SE $\frac{1}{4}$ of SE $\frac{1}{4}$ of Sec. 31 T2 S R6 W



First Level Field Search Priority List.

WELL NUMBER: 31A08

LOCATION: Twnshp 2 S Rng 66 W Section 31
Qtr SW Qtr SE

In plume	15
Downgradient of plume	10
Outside plume, not downgradient	(5)

AQUIFER: _____

Arapahoe or Arapahoe and any other aquifer	15
Denver and alluvium	(10)
Denver	5
Alluvium	3

AGE: _____

pre-1942	(10)
post-1942	5

DEPTH: _____ feet

Greater than 200 feet	10
100 to 200 feet	(5)
less than 100 feet	1

ADDITIONAL: _____

Requested	25
Physically hazardous	10

TOTAL (search if ≥ 25 points, 75 maximum): 30

Well Not Located

Second Level Field Search Priority List.

WELL NUMBER: 31A08

LOCATION: Twnshp 2 S Rng 66 W Section 31
Qtr SW Qtr SE

FIRST LEVEL FIELD SEARCH PRIORITY: _____

Greater than 40
25 to 40

15
8

AQUIFER*: _____

Denver or Arapahoe
Alluvium

5
0

ASSOCIATED CONTAMINANTS: _____

More than one plume
One plume
Downgradient of plume
Outside plume, not downgradient

15
10
5
2

APPLICABILITY OF ALTERNATE METHOD: EXCAVATE AT ANOMALY

Suitable methodology
Potential problems

10
1

ASSOCIATED WELLS: _____

Several to be located
Solitary well

10
4

ADDITIONAL: _____
Requested

25

TOTAL (search if ≥ 30 points, 75 maximum):

54

Well Located

* Inferred from depth if unknown

Water Sampling Criteria.

WELL NUMBER: 31408

LOCATION: Twnshp 2 S Rng 66 W Section 31
SW Qtr SE Qtr

WELL CONSTRUCTION: _____

Well construction details known 5
Well construction details unknown (0)

ASSOCIATED CONTAMINANTS: _____

In plume or within one-half mile of plume 5
Beyond one-half mile from plume (0)

AQUIFER: _____

Arapahoe or Denver (5)
Alluvium 0

ASSOCIATED WELLS: _____

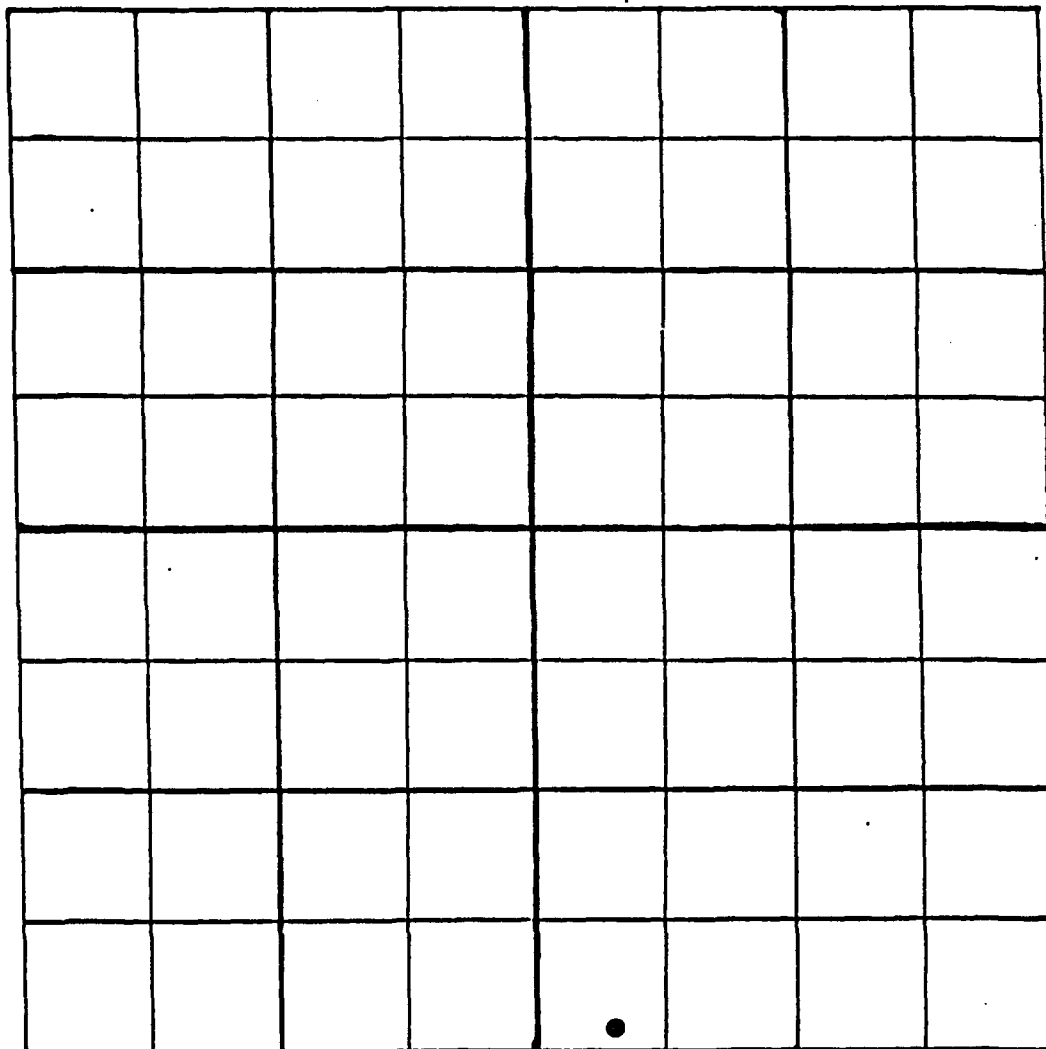
Not near wells into same aquifer (5)
Near many wells into the same aquifer 0

TOTAL* (will be sampled if total = 20): 10

* Requests for specific wells to sample have been solicited from concerned parties and will be evaluated on a case by case basis.

Well Location Diagram:

Well # 31A08
Sec. # 31



SW 1/4 of SW 1/4 of SE 1/4 of Sec. 31 T 2 S R 6 W



Well # 31A08

Well Location Description:

Section # 31

LOCATED WELL AFTER EXCAVATING AT
MAGNETIC ANOMALY. LOCATION IS
0.55 miles E AND 150 FT N OF SW
SECTION CORNER.

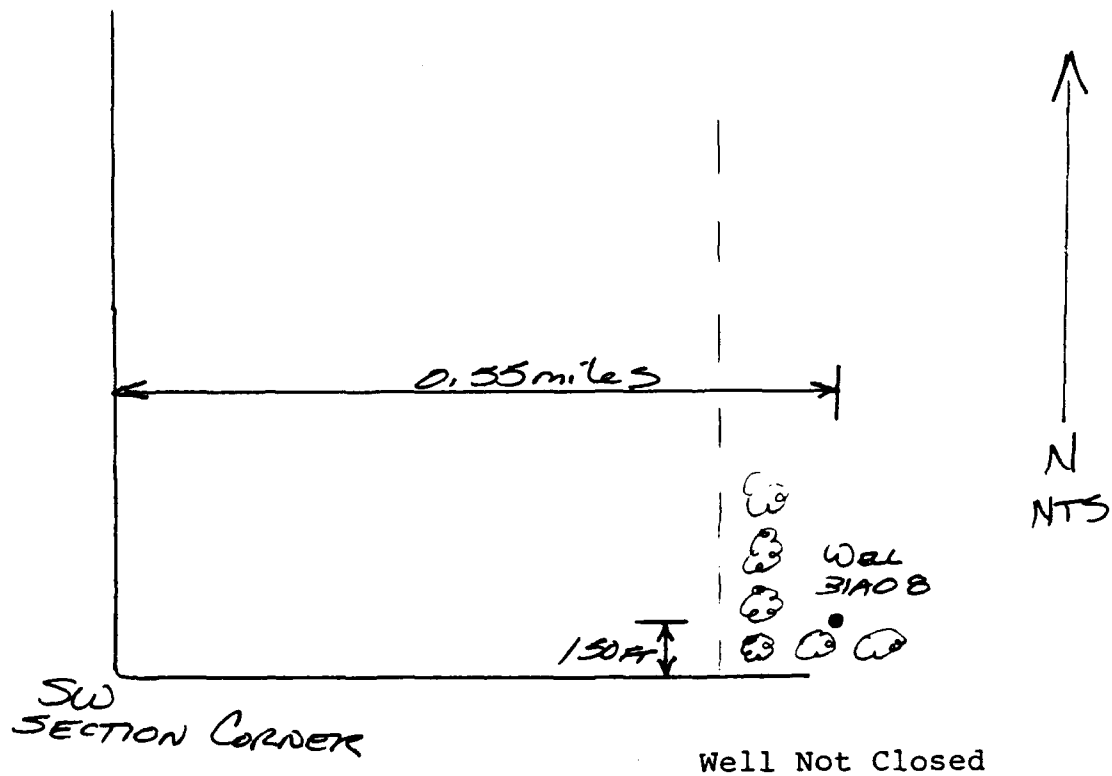
CASING DIAM = 6 in

CASING TYPE = GALVANIZED

OPEN DEPTH = $\emptyset$ (DIRT FILL)

HEIGHT = - 1.5

REPORTED DEPTH = 190 FT



Well Not Closed

First Level Field Search Priority List.

WELL NUMBER: 31A09

LOCATION: Twnshp 2 S Rng 66 W Section 31
Qtr NW Qtr NW

In plume	(15)
Downgradient of plume	10
Outside plume, not downgradient	5

AQUIFER: ?

Arapahoe or Arapahoe and any other aquifer	(15)
Denver and alluvium	10
Denver	5
Alluvium	3

AGE: _____

pre-1942	(10)
post-1942	5

DEPTH: ? feet

Greater than 200 feet	(10)
100 to 200 feet	5
less than 100 feet	1

ADDITIONAL: _____

Requested	25
Physically hazardous	10

TOTAL (search if $\geq$ 25 points, 75 maximum): 50

Well Not Located

Second Level Field Search Priority List.

WELL NUMBER: 31A09

LOCATION: Twnshp 2 S Rng 66 W Section 31
Qtr NW Qtr NW

FIRST LEVEL FIELD SEARCH PRIORITY: _____

Greater than 40
25 to 40

15
8

AQUIFER*: _____

Denver or Arapahoe
Alluvium

5
0

ASSOCIATED CONTAMINANTS: _____

More than one plume
One plume
Downgradient of plume
Outside plume, not downgradient

15
10
5
2

APPLICABILITY OF ALTERNATE METHOD: EXCAVATE AT ANOMALY

Suitable methodology
Potential problems

10
1

ASSOCIATED WELLS: _____

Several to be located
Solitary well

10
4

ADDITIONAL: _____

Requested

25

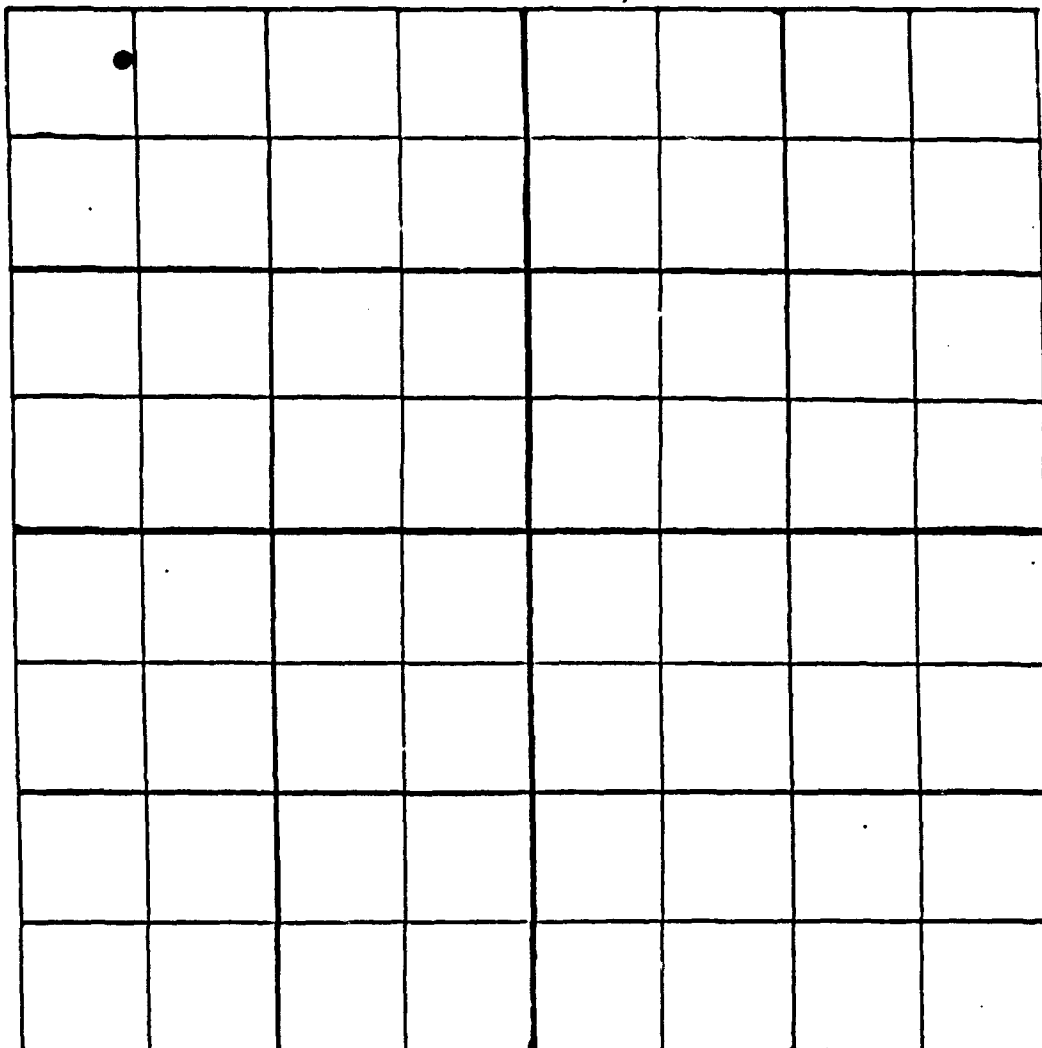
TOTAL (search if ≥ 30 points, 75 maximum): 42

Well Not Located

* Inferred from depth if unknown

Well Location Diagram:

Well # 31A09
Sec. # 31



NW1/4 of NW1/4 of NW1/4 of Sec. 31 T2S R6W



First Level Field Search Priority List.

WELL NUMBER: 33003

LOCATION: Twnshp 2S Rng 67W Section 33
Qtr NE Qtr NW

In plume	(15)
Downgradient of plume	10
Outside plume, not downgradient	5

AQUIFER: _____

Arapahoe or Arapahoe and any other aquifer	15
Denver and alluvium	10
Denver	5
Alluvium	(3)

AGE: _____

pre-1942	10
post-1942	(5)

DEPTH: _____ feet

Greater than 200 feet	10
100 to 200 feet	5
less than 100 feet	(1)

ADDITIONAL: _____

Requested	25
Physically hazardous	10

TOTAL (search if $\geq$ 25 points, 75 maximum): 24

First Level Field Search Priority List.

WELL NUMBER: 33004

LOCATION: Twnshp 2 S Rng 67 W Section 33
Qtr NE Qtr NW

In plume	(15)
Downgradient of plume	10
Outside plume, not downgradient	5

AQUIFER: _____

Arapahoe or Arapahoe and any other aquifer	15
Denver and alluvium	10
Denver	5
Alluvium	(3)

AGE: _____

pre-1942	10
post-1942	(5)

DEPTH: _____ feet

Greater than 200 feet	10
100 to 200 feet	5
less than 100 feet	(1)

ADDITIONAL: _____

Requested	25
Physically hazardous	10

TOTAL (search if $\geq$ 25 points, 75 maximum): 24

First Level Field Search Priority List.

WELL NUMBER: 33005

LOCATION: Twnshp 2 S Rng 67 W Section 33
Qtr NE Qtr NW

In plume	(15)
Downgradient of plume	10
Outside plume, not downgradient	5

AQUIFER: _____

Arapahoe or Arapahoe and any other aquifer	15
Denver and alluvium	10
Denver	5
Alluvium	(3)

AGE: _____

pre-1942	10
post-1942	(5)

DEPTH: _____ feet

Greater than 200 feet	10
100 to 200 feet	5
less than 100 feet	(1)

ADDITIONAL: _____

Requested	25
Physically hazardous	10

TOTAL (search if $\geq$ 25 points, 75 maximum): 24

First Level Field Search Priority List.

WELL NUMBER: 33006

LOCATION: Twnshp 2 S Rng 67 W Section 33
Qtr NE Qtr NW

In plume	(15)
Downgradient of plume	10
Outside plume, not downgradient	5

AQUIFER: _____

Arapahoe or Arapahoe and any other aquifer	15
Denver and alluvium	10
Denver	5
Alluvium	(3)

AGE: _____

pre-1942	10
post-1942	(5)

DEPTH: _____ feet

Greater than 200 feet	10
100 to 200 feet	5
less than 100 feet	(1)

ADDITIONAL: _____

Requested	25
Physically hazardous	10

TOTAL (search if $\geq$ 25 points, 75 maximum): 24

First Level Field Search Priority List.

WELL NUMBER: 33007

LOCATION: Twnshp 2 S Rng 67 W Section 33
Qtr NE Qtr NW

In plume	(15)
Downgradient of plume	10
Outside plume, not downgradient	5

AQUIFER: _____

Arapahoe or Arapahoe and any other aquifer	15
Denver and alluvium	10
Denver	5
Alluvium	(3)

AGE: _____

pre-1942	10
post-1942	(5)

DEPTH: _____ feet

Greater than 200 feet	10
100 to 200 feet	5
less than 100 feet	(1)

ADDITIONAL: _____

Requested	25
Physically hazardous	10

TOTAL (search if ≥ 25 points, 75 maximum): 24

First Level Field Search Priority List.

WELL NUMBER: 33008

LOCATION: Township 2 S Rng 67 W Section 33
Qtr NE Qtr NW

In plume	(15)
Downgradient of plume	10
Outside plume, not downgradient	5

AQUIFER: _____

Arapahoe or Arapahoe and any other aquifer	15
Denver and alluvium	10
Denver	5
Alluvium	(3)

AGE: _____

pre-1942	10
post-1942	(5)

DEPTH: _____ feet

Greater than 200 feet	10
100 to 200 feet	5
less than 100 feet	(1)

ADDITIONAL: _____

Requested	25
Physically hazardous	10

TOTAL (search if $\geq$ 25 points, 75 maximum): 24

First Level Field Search Priority List.

WELL NUMBER: 33009

LOCATION: Twnshp 2 S Rng 67 W Section 33
Qtr NE Qtr NW

In plume	(15)
Downgradient of plume	10
Outside plume, not downgradient	5

AQUIFER: _____

Arapahoe or Arapahoe and any other aquifer	15
Denver and alluvium	10
Denver	5
Alluvium	(3)

AGE: _____

pre-1942	10
post-1942	(5)

DEPTH: _____ feet

Greater than 200 feet	10
100 to 200 feet	5
less than 100 feet	(1)

ADDITIONAL: _____

Requested	25
Physically hazardous	10

TOTAL (search if ≥ 25 points, 75 maximum): 24

First Level Field Search Priority List.

WELL NUMBER: 33010

LOCATION: Twnshp 2 S Rng 67 W Section 33
Qtr NE Qtr NW

In plume	(15)
Downgradient of plume	10
Outside plume, not downgradient	5

AQUIFER: _____

Arapahoe or Arapahoe and any other aquifer	15
Denver and alluvium	10
Denver	5
Alluvium	(3)

AGE: _____

pre-1942	10
post-1942	(5)

DEPTH: _____ feet

Greater than 200 feet	10
100 to 200 feet	5
less than 100 feet	(1)

ADDITIONAL: _____

Requested	25
Physically hazardous	10

TOTAL (search if $\geq$ 25 points, 75 maximum): 24

First Level Field Search Priority List.

WELL NUMBER: 33011

LOCATION: Twnshp 2 S Rng 67 W Section 33
Qtr NE Qtr NW

In plume	(15)
Downgradient of plume	10
Outside plume, not downgradient	5

AQUIFER: _____

Arapahoe or Arapahoe and any other aquifer	15
Denver and alluvium	10
Denver	5
Alluvium	(3)

AGE: _____

pre-1942	10
post-1942	(5)

DEPTH: _____ feet

Greater than 200 feet	10
100 to 200 feet	5
less than 100 feet	(1)

ADDITIONAL: _____

Requested	25
Physically hazardous	10

TOTAL (search if $\geq$ 25 points, 75 maximum): 24

First Level Field Search Priority List.

WELL NUMBER: 33012

LOCATION: Twnshp 2 S Rng 67 W Section 33
Qtr NE Qtr NW

In plume	(15)
Downgradient of plume	10
Outside plume, not downgradient	5

AQUIFER: _____

Arapahoe or Arapahoe and any other aquifer	15
Denver and alluvium	10
Denver	5
Alluvium	(3)

AGE: _____

pre-1942	10
post-1942	(5)

DEPTH: _____ feet

Greater than 200 feet	10
100 to 200 feet	(5)
less than 100 feet	1

ADDITIONAL: _____

Requested	25
Physically hazardous	10

TOTAL (search if ≥ 25 points, 75 maximum): 28

Well Located

Water Sampling Criteria.

WELL NUMBER: 33012

LOCATION: Twnshp 2 S Rng 67 W Section 33
NE Qtr NW Qtr

WELL CONSTRUCTION: _____

Well construction details known (5)
Well construction details unknown 0

ASSOCIATED CONTAMINANTS: _____

In plume or within one-half mile of plume (5)
Beyond one-half mile from plume 0

AQUIFER: _____

Arapahoe or Denver 5
Alluvium (1)

ASSOCIATED WELLS: _____

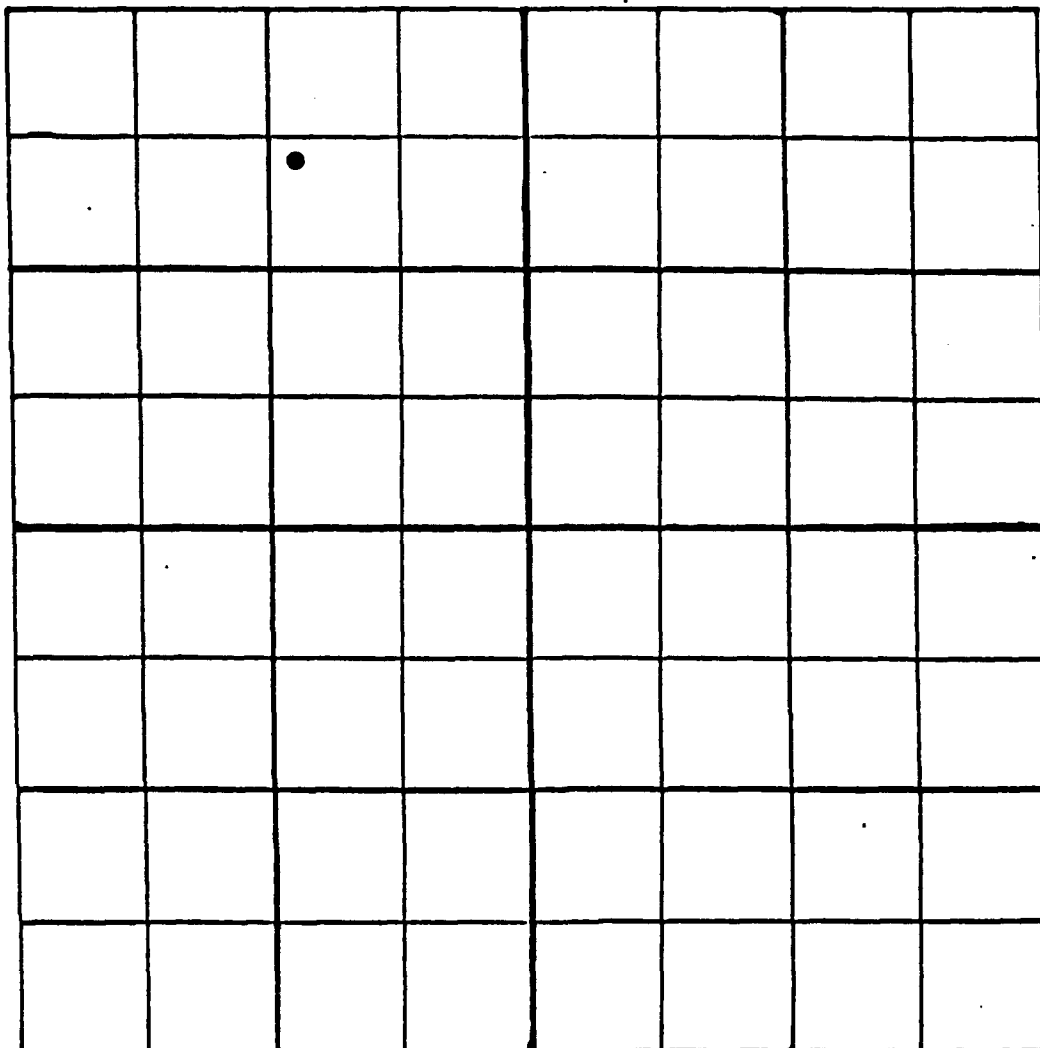
Not near wells into same aquifer 5
Near many wells into the same aquifer (1)

TOTAL* (will be sampled if total = 20): 10

* Requests for specific wells to sample have been solicited from concerned parties and will be evaluated on a case by case basis.

Well Location Diagram:

Well # 33012
Sec. # 33



SW 1/4 of NE 1/4 of NW 1/4 of Sec. 33 T 2 S R 67 W



Well # 33012

Well Location Description:

Section # 33

Located well according to the location indicated in the RIC
Section Plots and Well Summary Report.

Surface Casing Diameter = - in.

Casing Diameter = 2 in.

Casing Type = PVC

Open Depth = 128.4 ft.

Height above Land Surface = 10 ft.

Depth To Water = 66.1 ft.

Notes = Well is CAPPED

Well Closed

First Level Field Search Priority List.

WELL NUMBER: 33013

LOCATION: Twnshp 2 S Rng 67 W Section 33
Qtr NE Qtr NW

In plume	(15)
Downgradient of plume	10
Outside plume, not downgradient	5

AQUIFER: _____

Arapahoe or Arapahoe and any other aquifer	15
Denver and alluvium	10
Denver	5
Alluvium	(3)

AGE: _____

pre-1942	10
post-1942	(5)

DEPTH: _____ feet

Greater than 200 feet	10
100 to 200 feet	(5)
less than 100 feet	1

ADDITIONAL: _____

Requested	25
Physically hazardous	10

TOTAL (search if $\geq$ 25 points, 75 maximum): 28

Well Located

Water Sampling Criteria.

WELL NUMBER: 33013

LOCATION: Twnshp 2 S Rng 67 W Section 33
NE Qtr NW Qtr

WELL CONSTRUCTION: _____

Well construction details known (5)
Well construction details unknown 0

ASSOCIATED CONTAMINANTS: _____

In plume or within one-half mile of plume (5)
Beyond one-half mile from plume 0

AQUIFER: _____

Arapahoe or Denver 5
Alluvium (0)

ASSOCIATED WELLS: _____

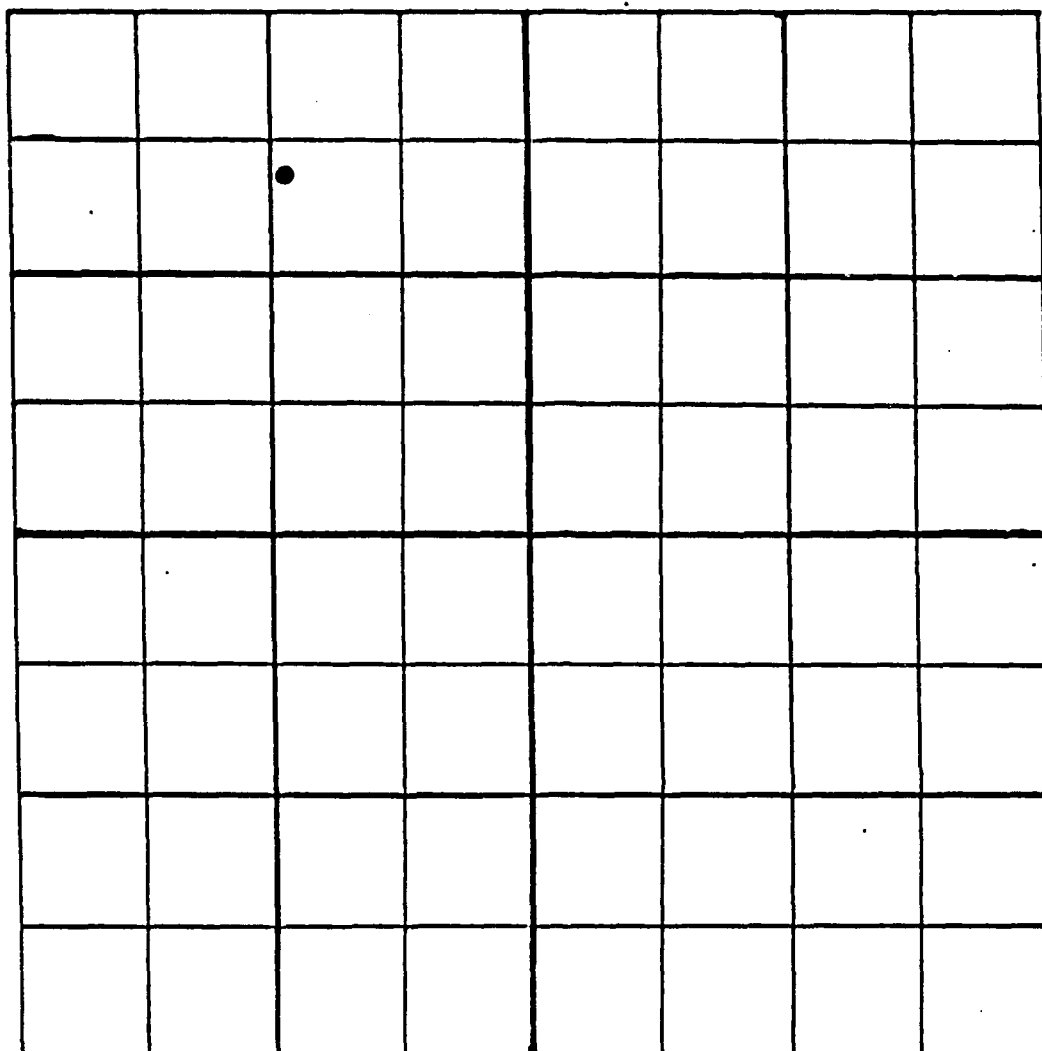
Not near wells into same aquifer 5
Near many wells into the same aquifer (0)

TOTAL* (will be sampled if total = 20): 10

* Requests for specific wells to sample have been solicited from concerned parties and will be evaluated on a case by case basis.

Well Location Diagram:

Well # 33013
Sec. # 33



SW 1/4 of NE 1/4 of NW 1/4 of Sec. 33 T2 S R67 W



Well # 33013

Well Location Description:

Section # 33

Located well according to the location indicated in the RIC
Section Plots and Well Summary Report.

Surface Casing Diameter = — in.

Casing Diameter = 2 in.

Casing Type = PVC

Open Depth = 134.6 ft.

Height above Land Surface = 4.1 ft.

Depth To Water = 67.6 ft.

Notes = WELL APPEARS TO HAVE BROKEN AT
L.S. AND BEEN REPAIRED.

Well Closed

First Level Field Search Priority List.

WELL NUMBER: 33A01

LOCATION: Township 2 S Rng 67 W Section 33
Qtr NE Qtr NW

In plume	(15)
Downgradient of plume	10
Outside plume, not downgradient	5

AQUIFER: _____

Arapahoe or Arapahoe and any other aquifer	15
Denver and alluvium	(10)
Denver	5
Alluvium	3

AGE: _____

pre-1942	(10)
post-1942	5

DEPTH: _____ feet

Greater than 200 feet	10
100 to 200 feet	5
less than 100 feet	(1)

ADDITIONAL: _____

Requested	25
Physically hazardous	10

TOTAL (search if ≥ 25 points, 75 maximum): 36

Well Located

Water Sampling Criteria.

WELL NUMBER: 33A01

LOCATION: Twnshp 2 S Rng 67 W Section 33
NE Qtr NW Qtr

WELL CONSTRUCTION: _____

Well construction details known 5
Well construction details unknown (0)

ASSOCIATED CONTAMINANTS: _____

In plume or within one-half mile of plume (5)
Beyond one-half mile from plume 0

AQUIFER: _____

Arapahoe or Denver 5
Alluvium (0)

ASSOCIATED WELLS: _____

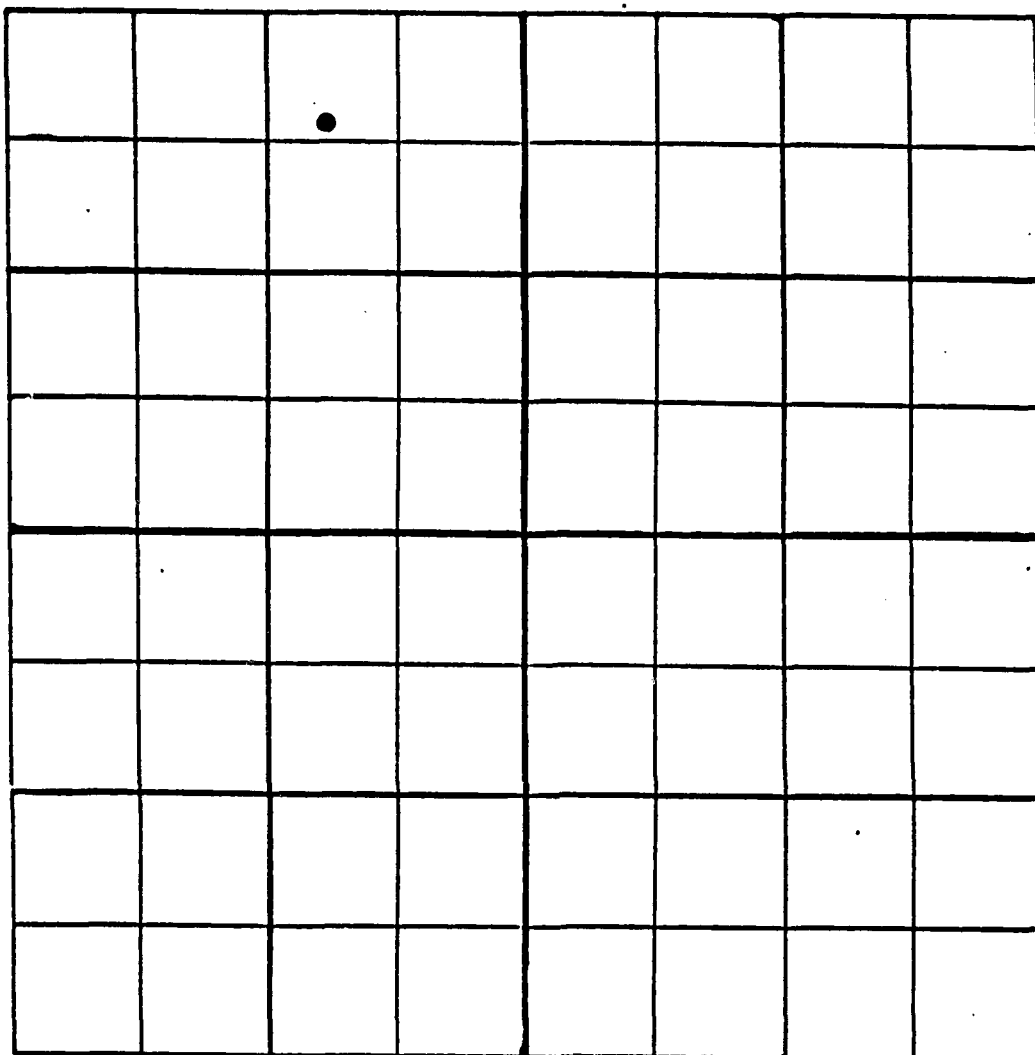
Not near wells into same aquifer 5
Near many wells into the same aquifer (0)

TOTAL* (will be sampled if total = 20): 5

* Requests for specific wells to sample have been solicited from concerned parties and will be evaluated on a case by case basis.

Well Location Diagram:

Well # 33A01
Sec. # 33



NW 1/4 of NE 1/4 of NW 1/4 of Sec. 33 T 2 S R 67 ~~66~~ W



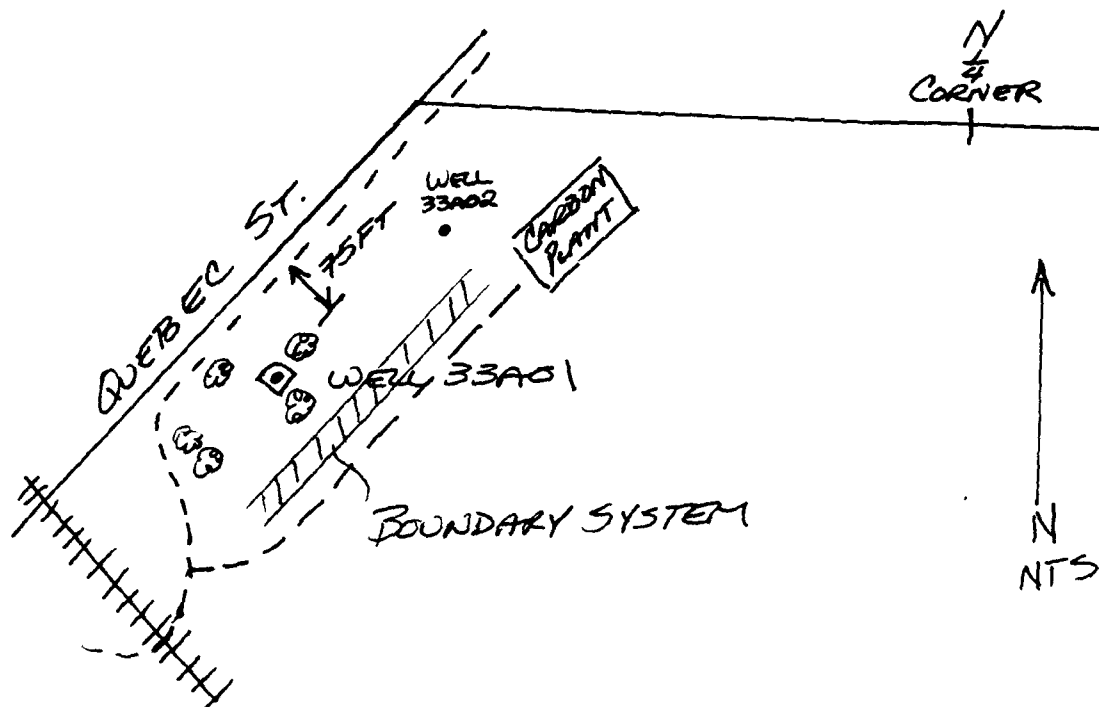
Well # 33A01

Well Location Description:

Section # 33

LOCATED WELL APPROXIMATELY 0.1 MILES
SW ALONG QUEBEC FROM N/ SECTION
LINE. WELL IS ON S SIDE OF ROAD
IN A GROVE OF TREES.

CASING DIAM = 4 in
CASING TYPE = STEEL $\frac{3}{16}$ IN THICK
OPEN DEPTH = 46.8 FT
HEIGHT = 0.28 FT
REPORTED DEPTH = 56 FT.



Well Closed

First Level Field Search Priority List.

WELL NUMBER: 33A02

LOCATION: Twnshp 2 S Rng 67 W Section 33
Qtr NE Qtr NW

In plume	(15)
Downgradient of plume	10
Outside plume, not downgradient	5

AQUIFER: ?

Arapahoe or Arapahoe and any other aquifer	(15)
Denver and alluvium	10
Denver	5
Alluvium	3

AGE: _____

pre-1942	(10)
post-1942	5

DEPTH: ? feet

Greater than 200 feet	(10)
100 to 200 feet	5
less than 100 feet	1

ADDITIONAL: _____

Requested	25
Physically hazardous	10

TOTAL (search if $\geq$ 25 points, 75 maximum): 50

Well Located

Water Sampling Criteria.

WELL NUMBER: 33A02

LOCATION: Twp 2 S Rng 67 W Section 33
NE Qtr NW Qtr

WELL CONSTRUCTION: _____

Well construction details known 5
Well construction details unknown ⑤

ASSOCIATED CONTAMINANTS: _____

In plume or within one-half mile of plume ⑤
Beyond one-half mile from plume 0

AQUIFER: _____

Arapahoe or Denver ⑤
Alluvium 0

ASSOCIATED WELLS: _____

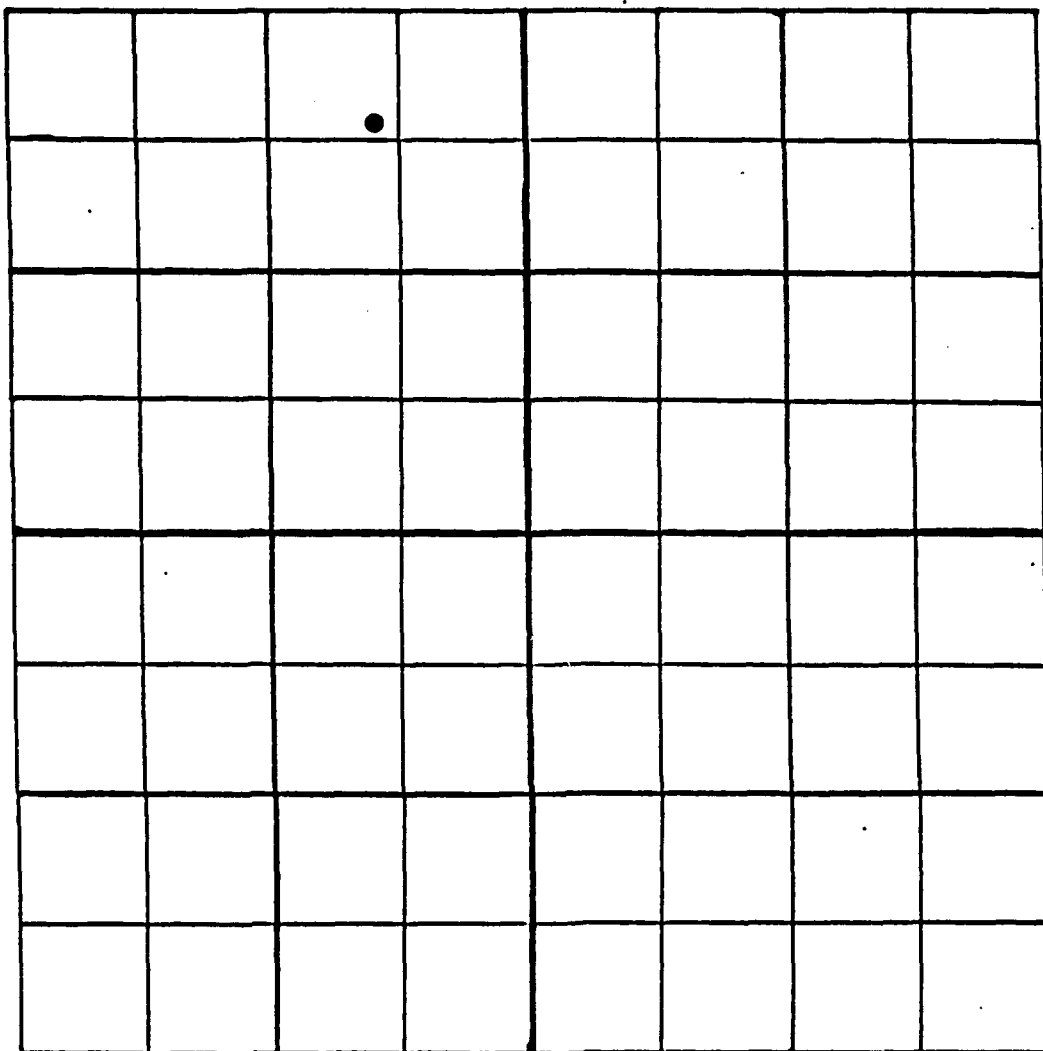
Not near wells into same aquifer ⑤
Near many wells into the same aquifer 0

TOTAL* (will be sampled if total = 20): 15

* Requests for specific wells to sample have been solicited from concerned parties and will be evaluated on a case by case basis.

Well Location Diagram:

Well # 33A02
Sec. # 33



NW 1/4 of NE 1/4 of NW 1/4 of Sec. 33 T2 S R67 W



Well Location Description:

Section # 33

LOCATED REMAINS OF WELL CASING APPROXIMATELY
0.71 miles W & 0.10 miles S OF NE SECTION
CORNER, JUST NW OF BOUNDARY SYSTEM.
CASING WAS CONCRETE. CIRCULAR
DEPRESSION FILLED WITH CONCRETE DEBRIS
REMAINS.

(SEE SKETCH FOR 33A01)

Well Not Closed

First Level Field Search Priority List.

WELL NUMBER: 33A03

LOCATION: Twnshp 2 S Rng 67 W Section 33
Qtr SE Qtr SE

In plume	(15)
Downgradient of plume	10
Outside plume, not downgradient	5

AQUIFER: ?

Arapahoe or Arapahoe and any other aquifer	(15)
Denver and alluvium	10
Denver	5
Alluvium	3

AGE: _____

pre-1942	(10)
post-1942	5

DEPTH: ? feet

Greater than 200 feet	(10)
100 to 200 feet	5
less than 100 feet	1

ADDITIONAL: _____

Requested	25
Physically hazardous	10

TOTAL (search if ≥ 25 points, 75 maximum): 50

Well Not Located

Second Level Field Search Priority List.

WELL NUMBER: 33A03

LOCATION: Twnshp 2 S Rng 67 W Section 33
Qtr SE Qtr SE

FIRST LEVEL FIELD SEARCH PRIORITY: _____

Greater than 40
25 to 40

15
8

AQUIFER*: _____

Denver or Arapahoe
Alluvium

5
0

ASSOCIATED CONTAMINANTS: _____

More than one plume
One plume
Downgradient of plume
Outside plume, not downgradient

15
10
5
2

APPLICABILITY OF ALTERNATE METHOD: _____

Suitable methodology
Potential problems

10
1

ASSOCIATED WELLS: _____

Several to be located
Solitary well

10
4

ADDITIONAL: _____

Requested

25

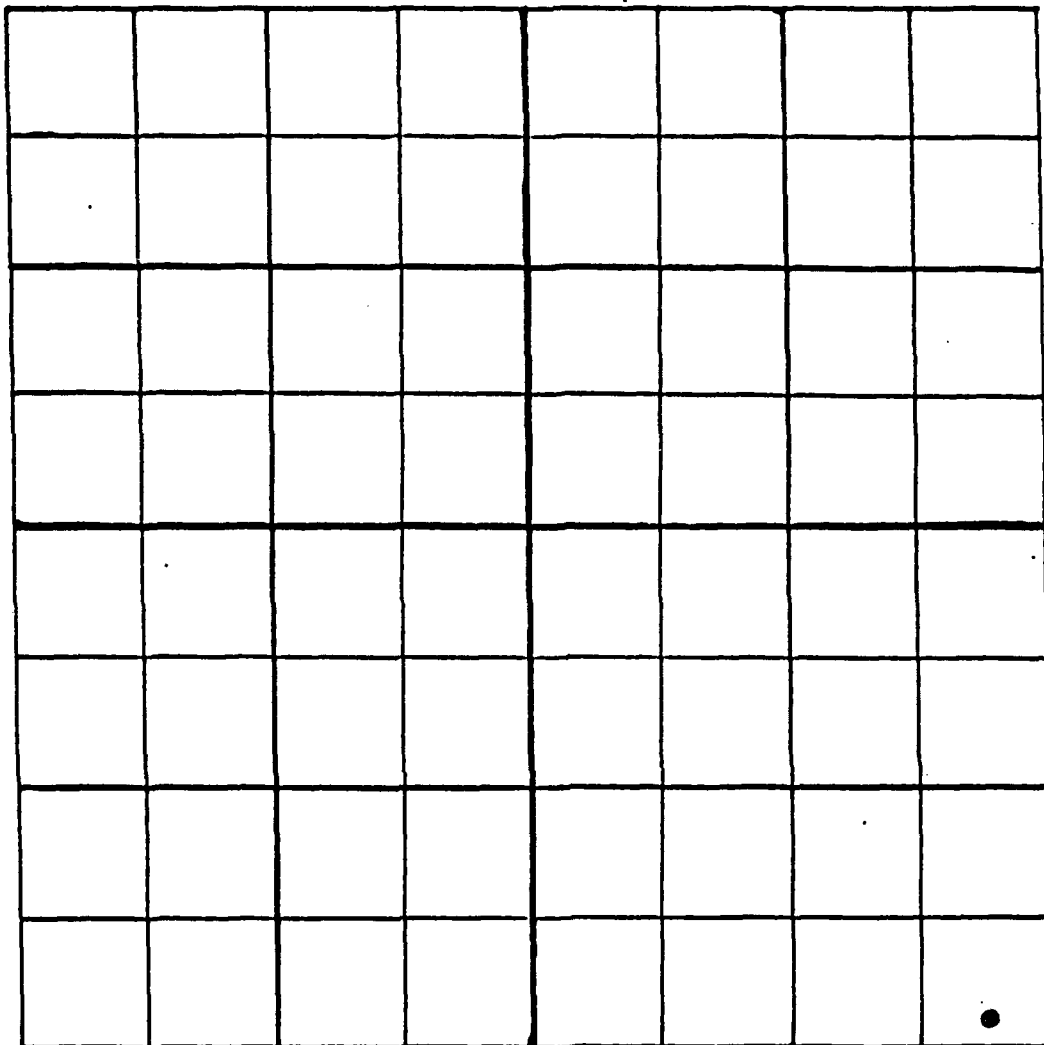
TOTAL (search if ≥ 30 points, 75 maximum): 33

Well Not Located

* Inferred from depth if unknown

Well Location Diagram:

Well # 33A03
Sec. # 33



SE 1/4 of SE 1/4 of SE 1/4 of Sec. 33 T2 S R67 W

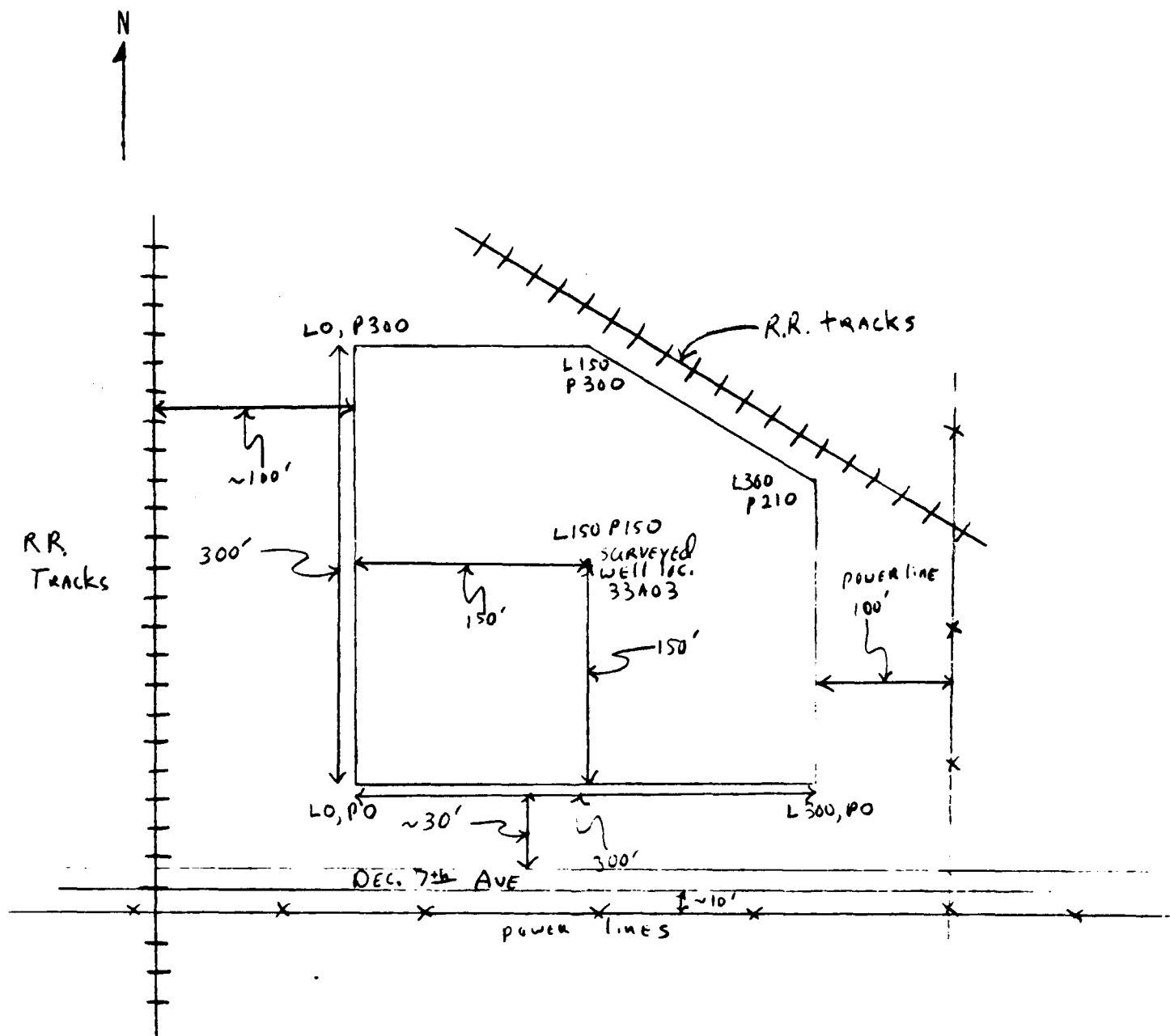


Sketch of Magnetometer
Grid at 33A03

Date

By

100



First Level Field Search Priority List.

WELL NUMBER: 33A04

LOCATION: Twnshp 2 S Rng 67 W Section 33
Qtr SW Qtr SE

In plume	(15)
Downgradient of plume	10
Outside plume, not downgradient	5

AQUIFER: _____

Arapahoe or Arapahoe and any other aquifer	15
Denver and alluvium	(10)
Denver	5
Alluvium	3

AGE: _____

pre-1942	(10)
post-1942	5

DEPTH: _____ feet

Greater than 200 feet	10
100 to 200 feet	(5)
less than 100 feet	1

ADDITIONAL: _____

Requested	25
Physically hazardous	10

TOTAL (search if $\geq$ 25 points, 75 maximum): 40

Well Located

Water Sampling Criteria.

WELL NUMBER: 33A04

LOCATION: Twnshp 2 S Rng 67 W Section 33
SW Qtr SE Qtr

WELL CONSTRUCTION: _____

Well construction details known 5
Well construction details unknown (0)

ASSOCIATED CONTAMINANTS: _____

In plume or within one-half mile of plume (5)
Beyond one-half mile from plume 0

AQUIFER: _____

Arapahoe or Denver 5
Alluvium (0)

ASSOCIATED WELLS: _____

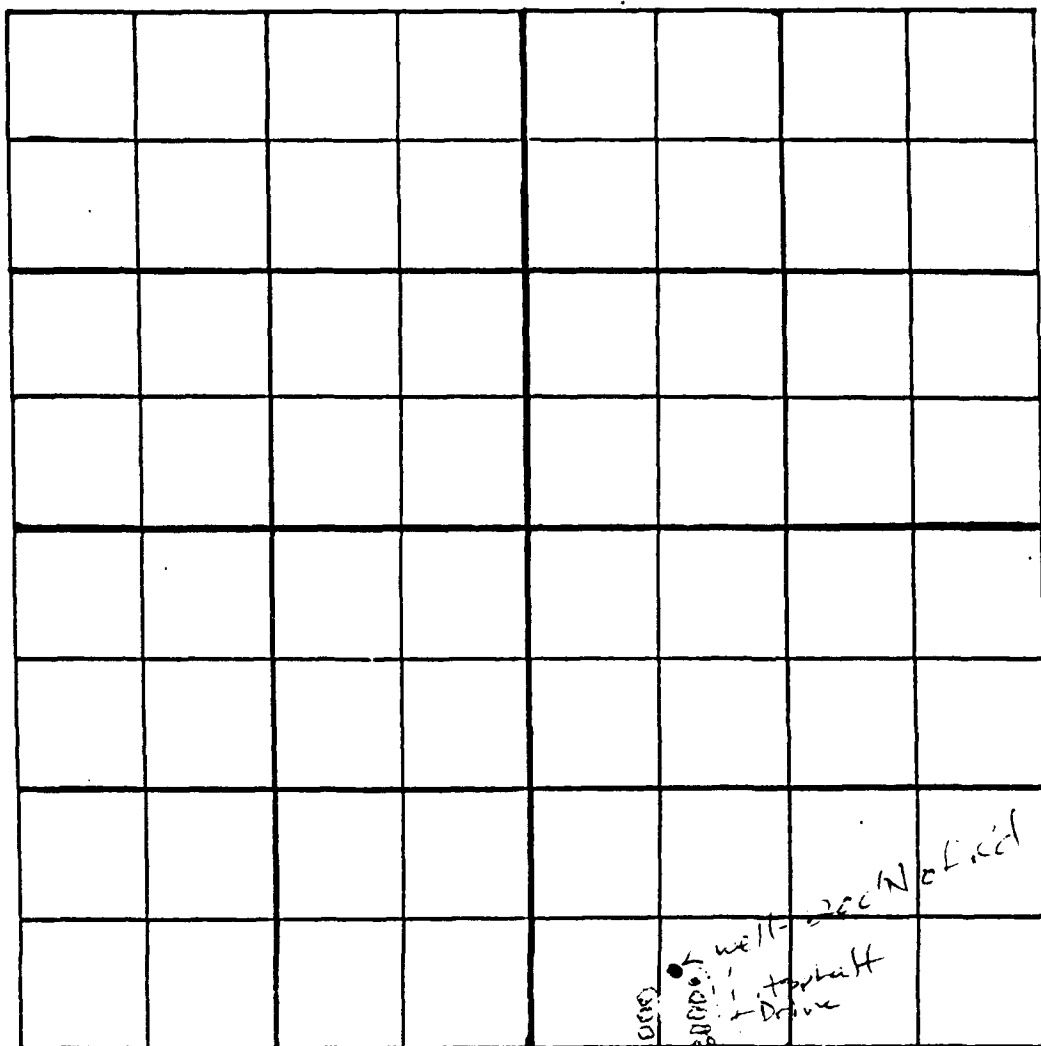
Not near wells into same aquifer 5
Near many wells into the same aquifer (0)

TOTAL* (will be sampled if total = 20): 5

* Requests for specific wells to sample have been solicited from concerned parties and will be evaluated on a case by case basis.

Well Location Diagram:

Well # 33A04
Sec. # 33



SE 1/4 of SW 1/4 of SE 1/4 of Sec. 33 T2S R6W



Well # 33A04

Well Location Description:

Section # 33

LOCATED WELL APPROXIMATELY 0.38 miles W
AND 200 FT N OF SE SECTION CORNER.

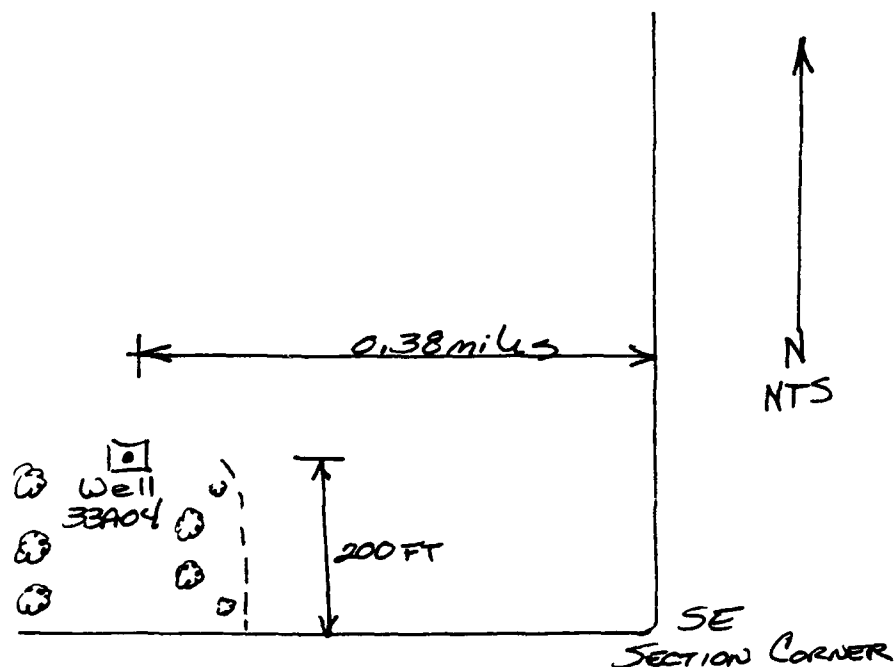
CASING DIAM = $6\frac{1}{2}$ in

CASING TYPE = STEEL

OPEN DEPTH = WELDED SHUT, STEEL COVER

HEIGHT = 0.15 FT

REPORTED DEPTH = 50 FT



Well Closed

First Level Field Search Priority List.

WELL NUMBER: 33A05

LOCATION: Twnshp 2S Rng 67W Section 33
Qtr SE Qtr SW

In plume	(15)
Downgradient of plume	10
Outside plume, not downgradient	5

AQUIFER: _____

Arapahoe or Arapahoe and any other aquifer	15
Denver and alluvium	(10)
Denver	5
Alluvium	3

AGE: _____

pre-1942	(10)
post-1942	5

DEPTH: _____ feet

Greater than 200 feet	10
100 to 200 feet	5
less than 100 feet	(1)

ADDITIONAL: _____

Requested	25
Physically hazardous	10

TOTAL (search if $\geq$ 25 points, 75 maximum): 36

Well Not Located

Second Level Field Search Priority List.

WELL NUMBER: 33A05

LOCATION: Twnshp 2 S Rng 67 W Section 33
Qtr SE Qtr SW

FIRST LEVEL FIELD SEARCH PRIORITY: _____

Greater than 40
25 to 40

15
8

AQUIFER*: _____

Denver or Arapahoe
Alluvium

5
0

ASSOCIATED CONTAMINANTS: _____

More than one plume
One plume
Downgradient of plume
Outside plume, not downgradient

15
10
5
2

APPLICABILITY OF ALTERNATE METHOD: _____

Suitable methodology
Potential problems

10
1

ASSOCIATED WELLS: _____

Several to be located
Solitary well

10
4

ADDITIONAL: _____

Requested

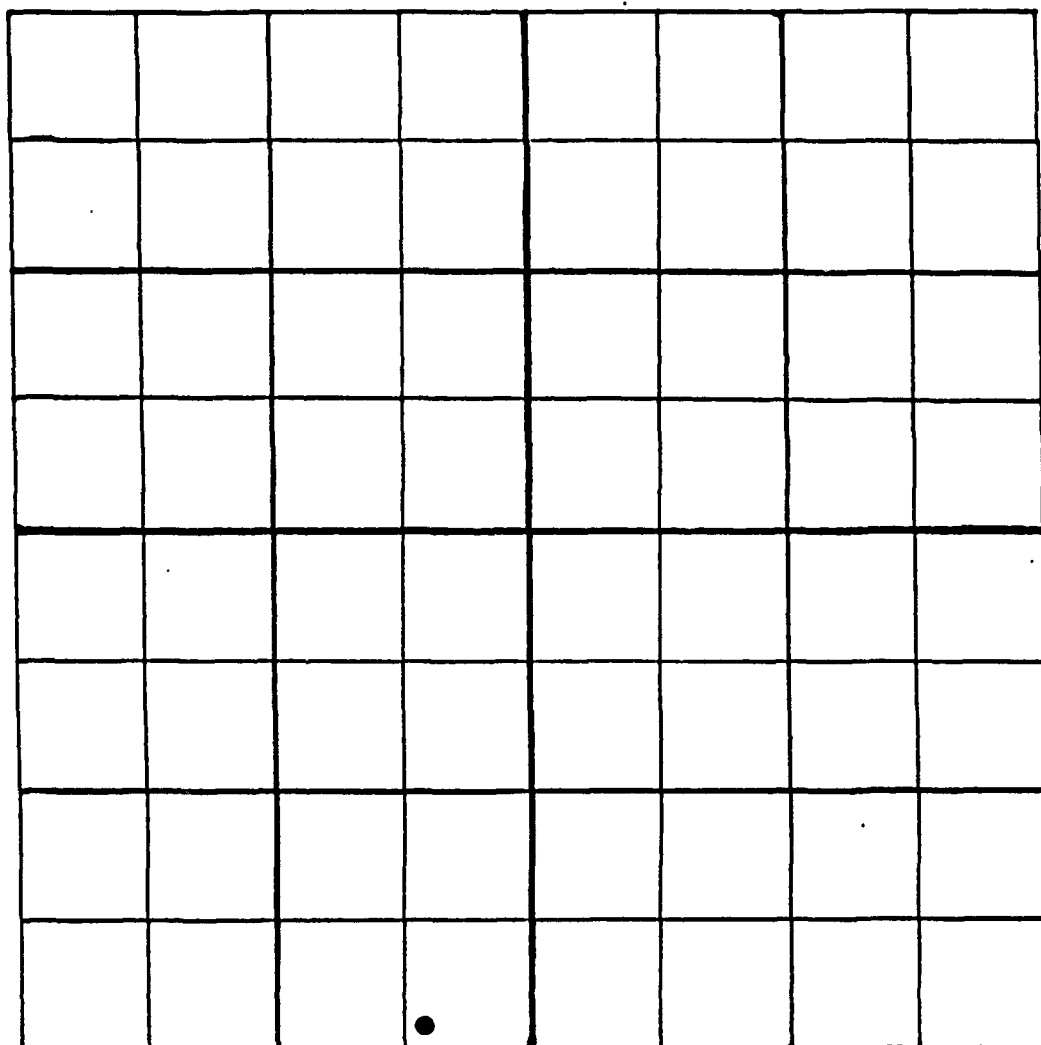
25

TOTAL (search if $\geq$ 30 points, 75 maximum): 28

* Inferred from depth if unknown

Well Location Diagram:

Well # 33A05
Sec. # 33



SE 1/4 of SE 1/4 of SW 1/4 of Sec. 33 T2S R6W



First Level Field Search Priority List.

WELL NUMBER: 33406

LOCATION: Twnshp 2 S Rng 67 W Section 33
Qtr SE Qtr SW

In plume	(15)
Downgradient of plume	10
Outside plume, not downgradient	5

AQUIFER: _____

Arapahoe or Arapahoe and any other aquifer	15
Denver and alluvium	(10)
Denver	5
Alluvium	3

AGE: _____

pre-1942	(10)
post-1942	5

DEPTH: _____ feet

Greater than 200 feet	10
100 to 200 feet	5
less than 100 feet	(1)

ADDITIONAL: _____

Requested	25
Physically hazardous	10

TOTAL (search if $\geq$ 25 points, 75 maximum): 36

Well Located

Water Sampling Criteria.

WELL NUMBER: 33A06

LOCATION: Twnshp 2 S Rng 67 W Section 33
SE Qtr SW Qtr

WELL CONSTRUCTION: _____

Well construction details known 5
Well construction details unknown (0)

ASSOCIATED CONTAMINANTS: _____

In plume or within one-half mile of plume (5)
Beyond one-half mile from plume 0

AQUIFER: _____

Arapahoe or Denver 5
Alluvium (0)

ASSOCIATED WELLS: _____

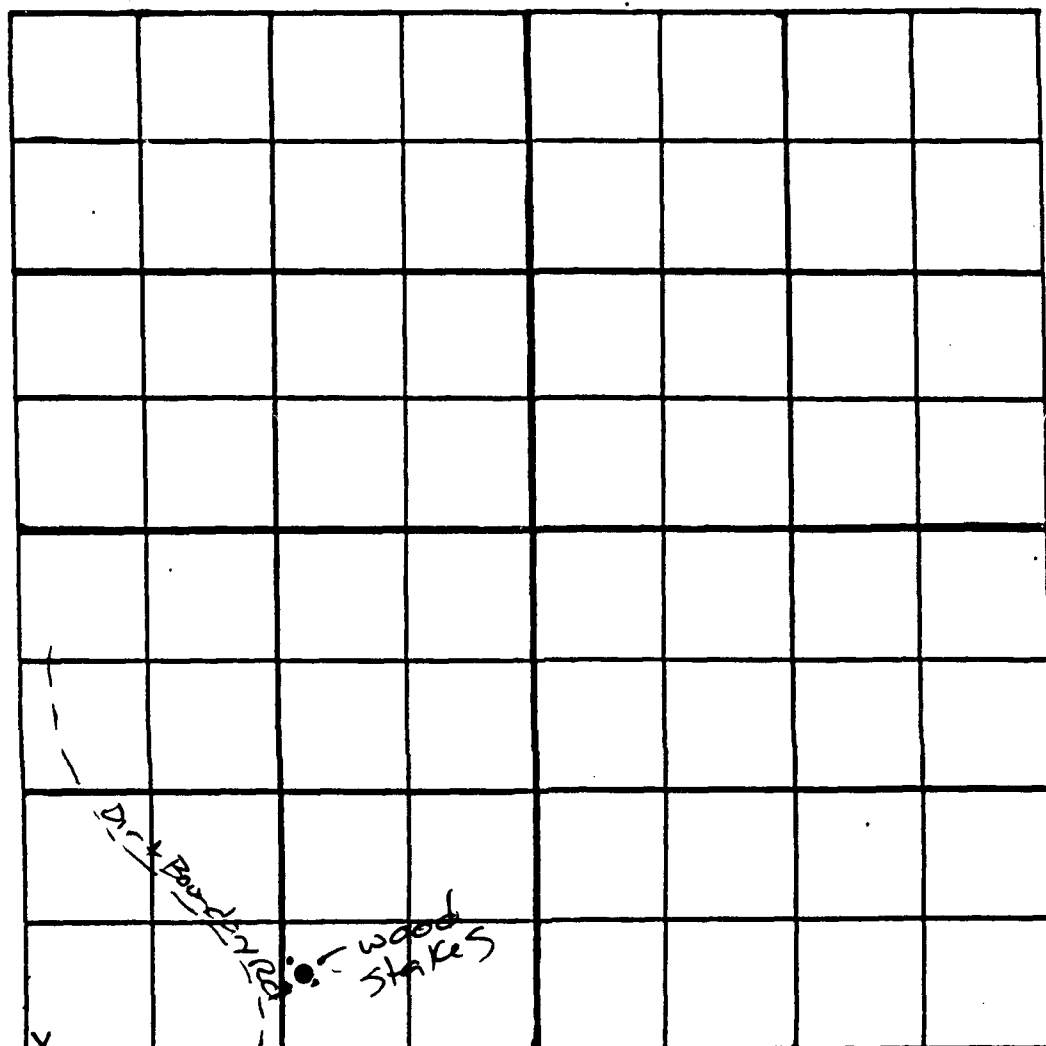
Not near wells into same aquifer 5
Near many wells into the same aquifer (0)

TOTAL* (will be sampled if total = 20): 5

* Requests for specific wells to sample have been solicited from concerned parties and will be evaluated on a case by case basis.

Well Location Diagram:

Well # 33A06
 Sec. # 33



Derby
 Gate

SW 1/4 of SE 1/4 of SW 1/4 of Sec. 33 T2 S R67 W



Well # 33406

Section # 33

Well Location Description:

LOCATED WELL APPROXIMATELY 0.25 miles E
AND 0.10 miles N OF SW SECTION CORNER
NE OF GUARD SHACK. SURROUNDED BY 4
STEEL POSTS.

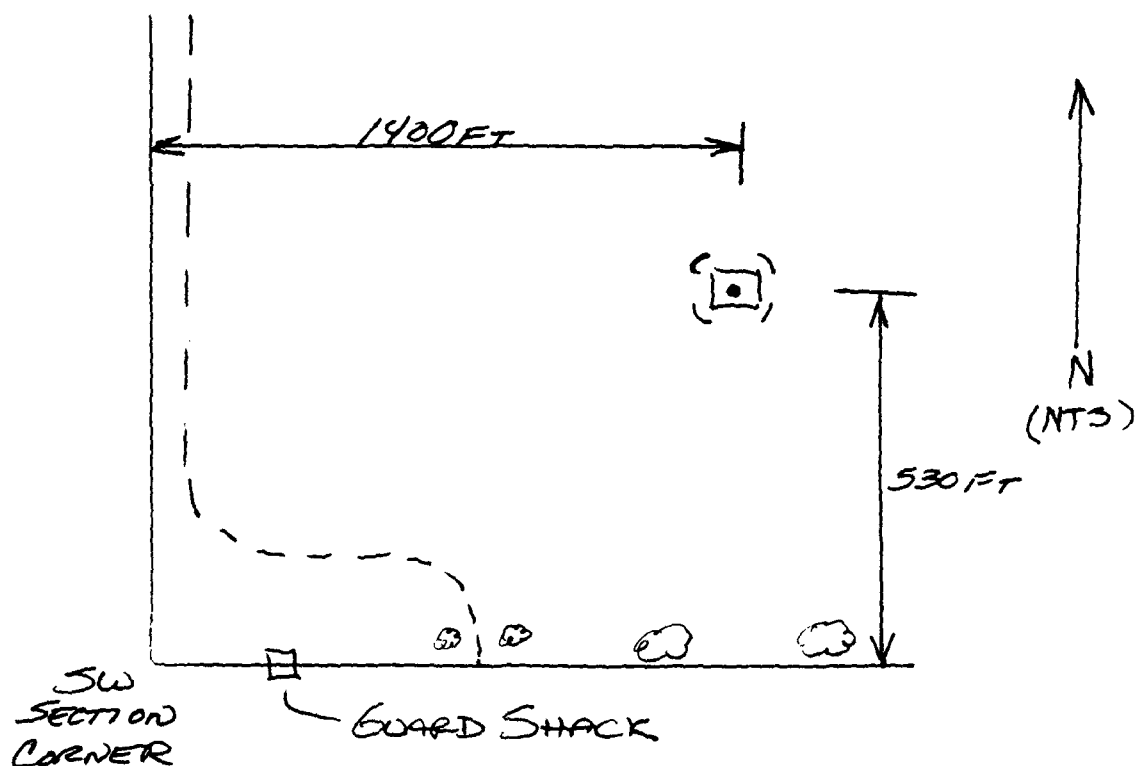
CASING DIAMETER = 3.5 in

CASING TYPE = STEEL $\frac{3}{16}$ in THICK

OPEN DEPTH = ϕ (WOOD PLUG AT SURFACE)

HEIGHT = 0.2 FT.

REPORTED DEPTH = 80 FT



Well Not Closed

First Level Field Search Priority List.

WELL NUMBER: 33A07

LOCATION: Township 2 S Rng 67 W Section 33
Qtr SW Qtr NW

In plume	(15)
Downgradient of plume	10
Outside plume, not downgradient	5

AQUIFER: ?

Arapahoe or Arapahoe and any other aquifer	(15)
Denver and alluvium	10
Denver	5
Alluvium	3

AGE: _____

pre-1942	(10)
post-1942	5

DEPTH: ? feet

Greater than 200 feet	(10)
100 to 200 feet	5
less than 100 feet	1

ADDITIONAL: _____

Requested	(25)
Physically hazardous	10

TOTAL (search if $\geq$ 25 points, 75 maximum): 75

Well Not Located

Second Level Field Search Priority List.

WELL NUMBER: 33A07

LOCATION: Twnshp 2 S Rng 67 W Section 33
Qtr SW Qtr NW

FIRST LEVEL FIELD SEARCH PRIORITY: _____

Greater than 40
25 to 40

15
8

AQUIFER*: _____

Denver or Arapahoe
Alluvium

5
0

ASSOCIATED CONTAMINANTS: _____

More than one plume
One plume
Downgradient of plume
Outside plume, not downgradient

15
10
5
2

APPLICABILITY OF ALTERNATE METHOD: _____

Suitable methodology
Potential problems

10
1

ASSOCIATED WELLS: _____

Several to be located
Solitary well

10
4

ADDITIONAL: _____
Requested

25

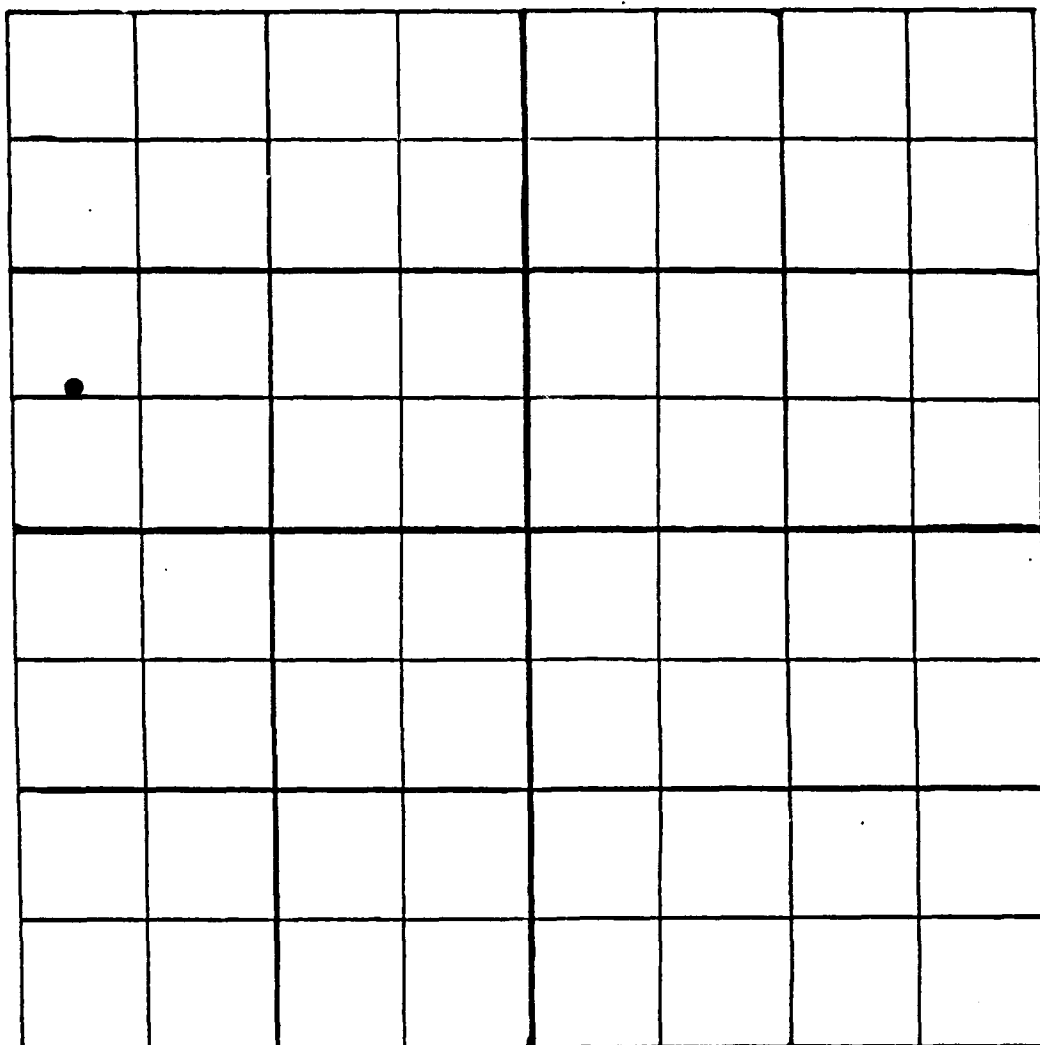
TOTAL (search if ≥ 30 points, 75 maximum): 74

Well Not Located

* Inferred from depth if unknown

Well Location Diagram:

Well # 33A07
Sec. # 33

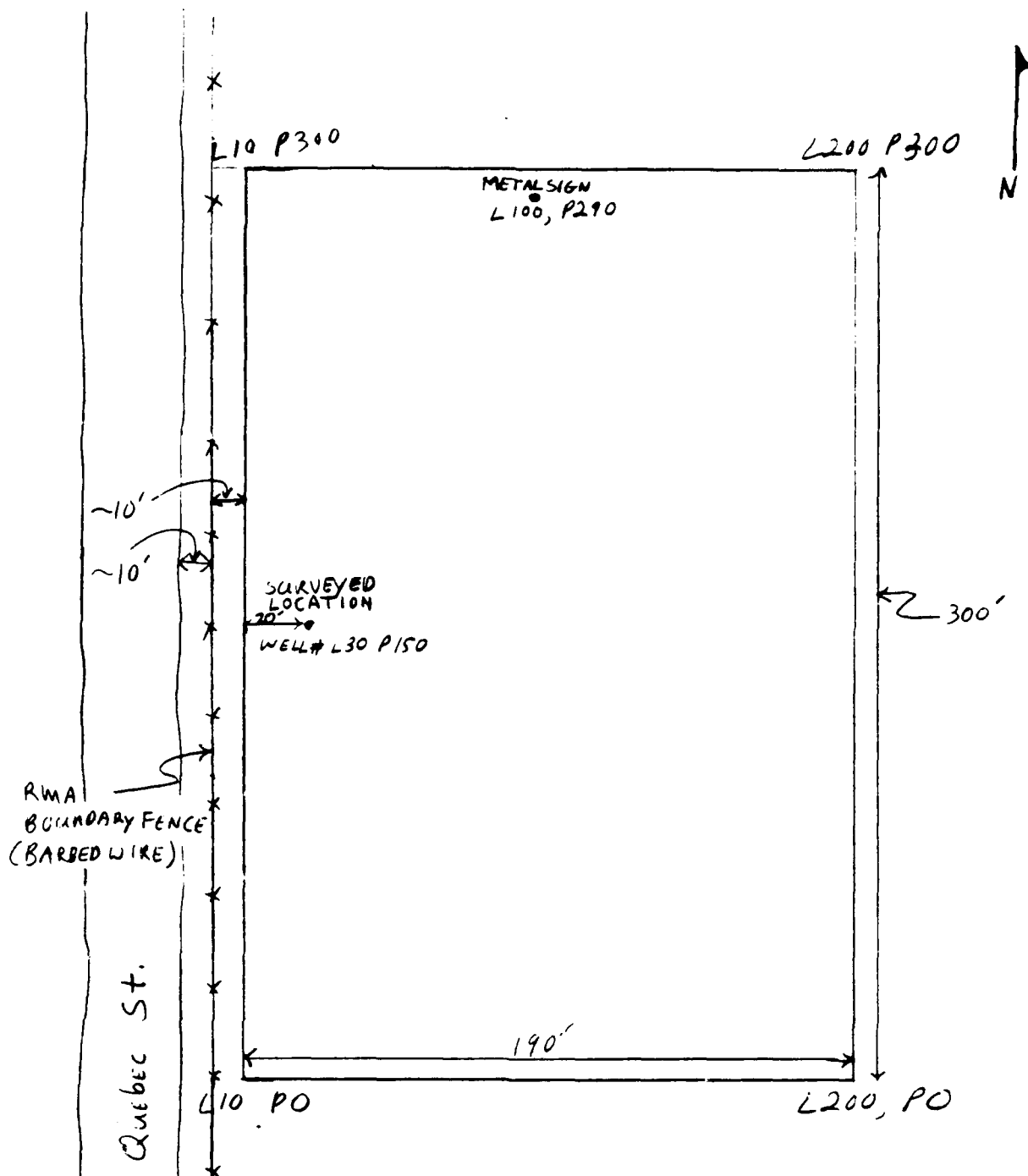


NW1/4 of SW1/4 of NW1/4 of Sec. 33 T2S R67W



Sketch of Magnetometer
Survey Grid For
Well 33A07

Date 5/4/88
By DRS
Crad



SURVEY RUN AT 10' SPACINGS (LINES & POSITIONS).
LINE (L) AND POSITION (P) NUMBERS CORRESPOND
TO DISTANCES FROM ORIGIN IN FEET

First Level Field Search Priority List.

WELL NUMBER: 33A08

LOCATION: Twnshp 2 S Rng 67 W Section 33
Qtr SW Qtr NW

In plume	(15)
Downgradient of plume	10
Outside plume, not downgradient	5

AQUIFER: _____

Arapahoe or Arapahoe and any other aquifer	15
Denver and alluvium	(10)
Denver	5
Alluvium	3

AGE: _____

pre-1942	(10)
post-1942	5

DEPTH: _____ feet

Greater than 200 feet	10
100 to 200 feet	5
less than 100 feet	(1)

ADDITIONAL: _____

Requested	25
Physically hazardous	10

TOTAL (search if $\geq$ 25 points, 75 maximum): 36

Well Located

Water Sampling Criteria.

WELL NUMBER: 33A08

LOCATION: Twnshp 2 S Rng 67 W Section 33
SW Qtr NW Qtr

WELL CONSTRUCTION: _____

Well construction details known

Well construction details unknown

5

0

ASSOCIATED CONTAMINANTS: _____

In plume or within one-half mile of plume

Beyond one-half mile from plume

5

0

AQUIFER: _____

Arapahoe or Denver

Alluvium

5

0

ASSOCIATED WELLS: _____

Not near wells into same aquifer

Near many wells into the same aquifer

5

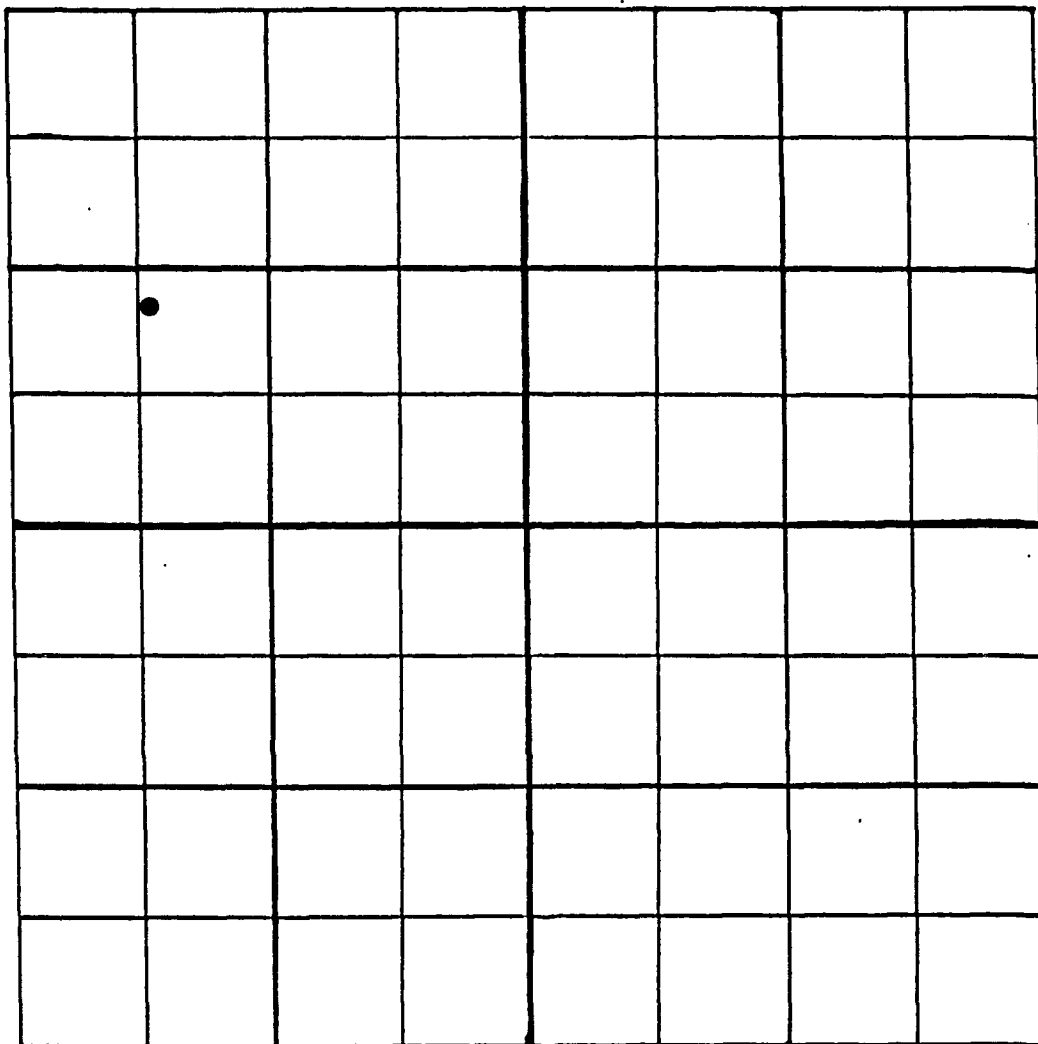
0

TOTAL* (will be sampled if total = 20): 5

* Requests for specific wells to sample have been solicited from concerned parties and will be evaluated on a case by case basis.

Well Location Diagram:

Well # 33A08
Sec. # 33



NE 1/4 of SW 1/4 of NW 1/4 of Sec. 33 T₂S R₆W



Well # 33A08

Well Location Description:

Section # 33

LOCATED WELL JUST E OF POINT WHERE
QUEBEC ST. TURNS NE. WELL IS LOCATED
E OF BOUNDARY ROAD UNDER A TREE.

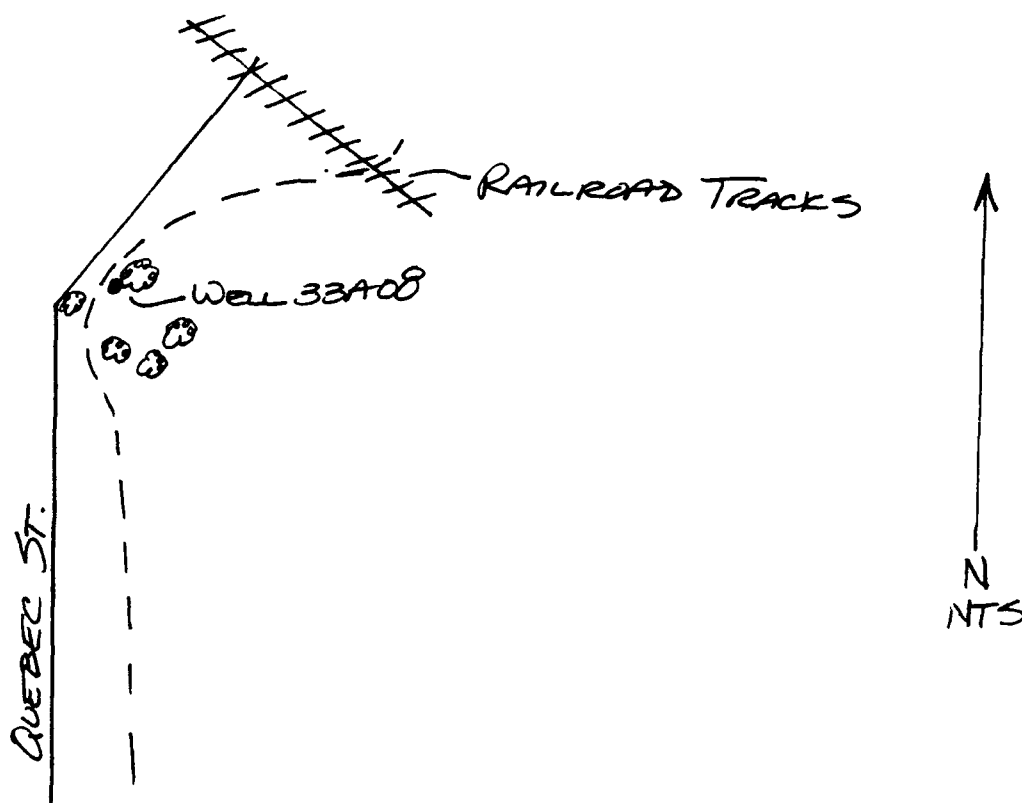
CASING DIAMETER = $6\frac{1}{4}$ in

CASING TYPE = STEEL, $\frac{3}{16}$ IN THICK

OPEN DEPTH = 41.7 FT (METAL OBSTRUCTION)

HEIGHT = ϕ

REPORTED DEPTH = 50 FT



Well Not Closed

First Level Field Search Priority List.

WELL NUMBER: 33A09

LOCATION: Twnshp 2 S Rng 67 W Section 33
Qtr NW Qtr NW

In plume	(15)
Downgradient of plume	10
Outside plume, not downgradient	5

AQUIFER: _____

Arapahoe or Arapahoe and any other aquifer	15
Denver and alluvium	(10)
Denver	5
Alluvium	3

AGE: _____

pre-1942	(10)
post-1942	5

DEPTH: _____ feet

Greater than 200 feet	10
100 to 200 feet	5
less than 100 feet	(1)

ADDITIONAL: _____

Requested	(25)
Physically hazardous	10

TOTAL (search if ≥ 25 points, 75 maximum): 61

Well Located

Water Sampling Criteria.

WELL NUMBER: 33A09

LOCATION: Twnshp 2 S Rng 67 W Section 33
NW Qtr NW Qtr

WELL CONSTRUCTION: _____

Well construction details known 5
Well construction details unknown ①

ASSOCIATED CONTAMINANTS: _____

In plume or within one-half mile of plume ⑤
Beyond one-half mile from plume 0

AQUIFER: _____

Arapahoe or Denver ⑤
Alluvium 0

ASSOCIATED WELLS: _____

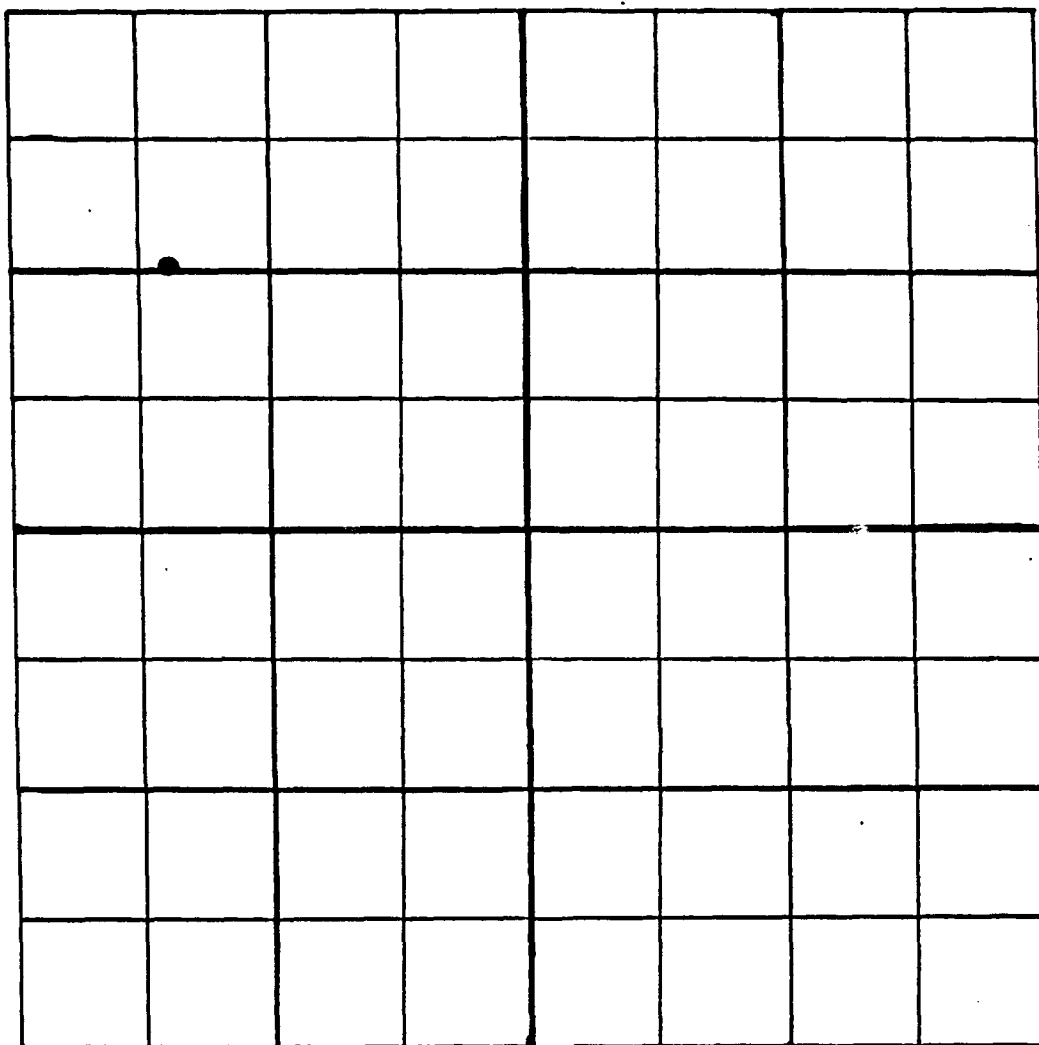
Not near wells into same aquifer 5
Near many wells into the same aquifer ①

TOTAL* (will be sampled if total = 20): 10

* Requests for specific wells to sample have been solicited from concerned parties and will be evaluated on a case by case basis.

Well Location Diagram:

Well # 33A09
Sec. # 33



SE 1/4 of NW 1/4 of NW 1/4 of Sec. 33 T 2 S R 67 W



Well # 33A09

Section # 93

Well Location Description:

LOCATED WELL EAST OF THE WEST
BOUNDARY ROAD AT THE POINT WHERE
IT CROSSES THE RAILROAD TRACKS.

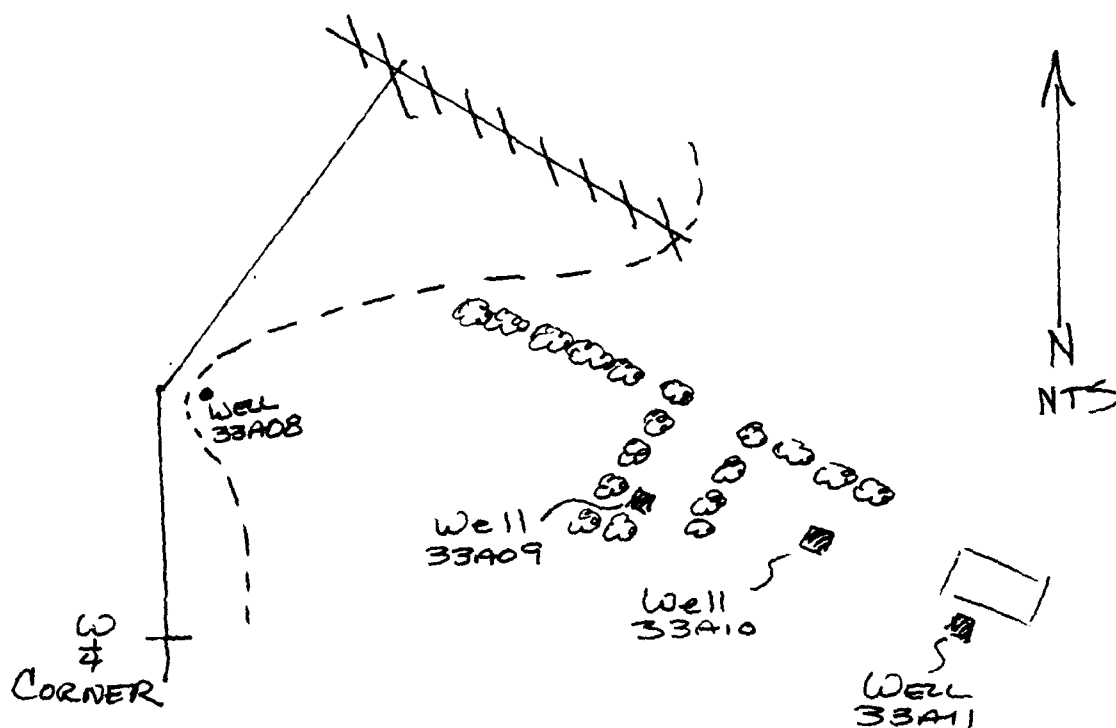
CASING DIAM = 3.7 FT X 6 FT PIT

CASING TYPE = CONCRETE

OPEN DEPTH = 0.9 FT (DIRT FILL)

HEIGHT = ϕ

REPORTED DEPTH = 96 FT.



Well Not Closed

First Level Field Search Priority List.

WELL NUMBER: 33410

LOCATION: Twnshp 2 S Rng 67 W Section 33
Qtr SW Qtr NW

In plume	(15)
Downgradient of plume	10
Outside plume, not downgradient	5

AQUIFER: _____

Arapahoe or Arapahoe and any other aquifer	15
Denver and alluvium	(10)
Denver	5
Alluvium	3

AGE: _____

pre-1942	(10)
post-1942	5

DEPTH: _____ feet

Greater than 200 feet	10
100 to 200 feet	5
less than 100 feet	(1)

ADDITIONAL: _____

Requested	25
Physically hazardous	10

TOTAL (search if $\geq$ 25 points, 75 maximum): 36

Well Located

Water Sampling Criteria.

WELL NUMBER: 33A10

LOCATION: Twnshp 2 S Rng 67 W Section 33
SW Qtr NW Qtr

WELL CONSTRUCTION: _____

Well construction details known 5
Well construction details unknown (0)

ASSOCIATED CONTAMINANTS: _____

In plume or within one-half mile of plume (5)
Beyond one-half mile from plume 0

AQUIFER: _____

Arapahoe or Denver 5
Alluvium (0)

ASSOCIATED WELLS: _____

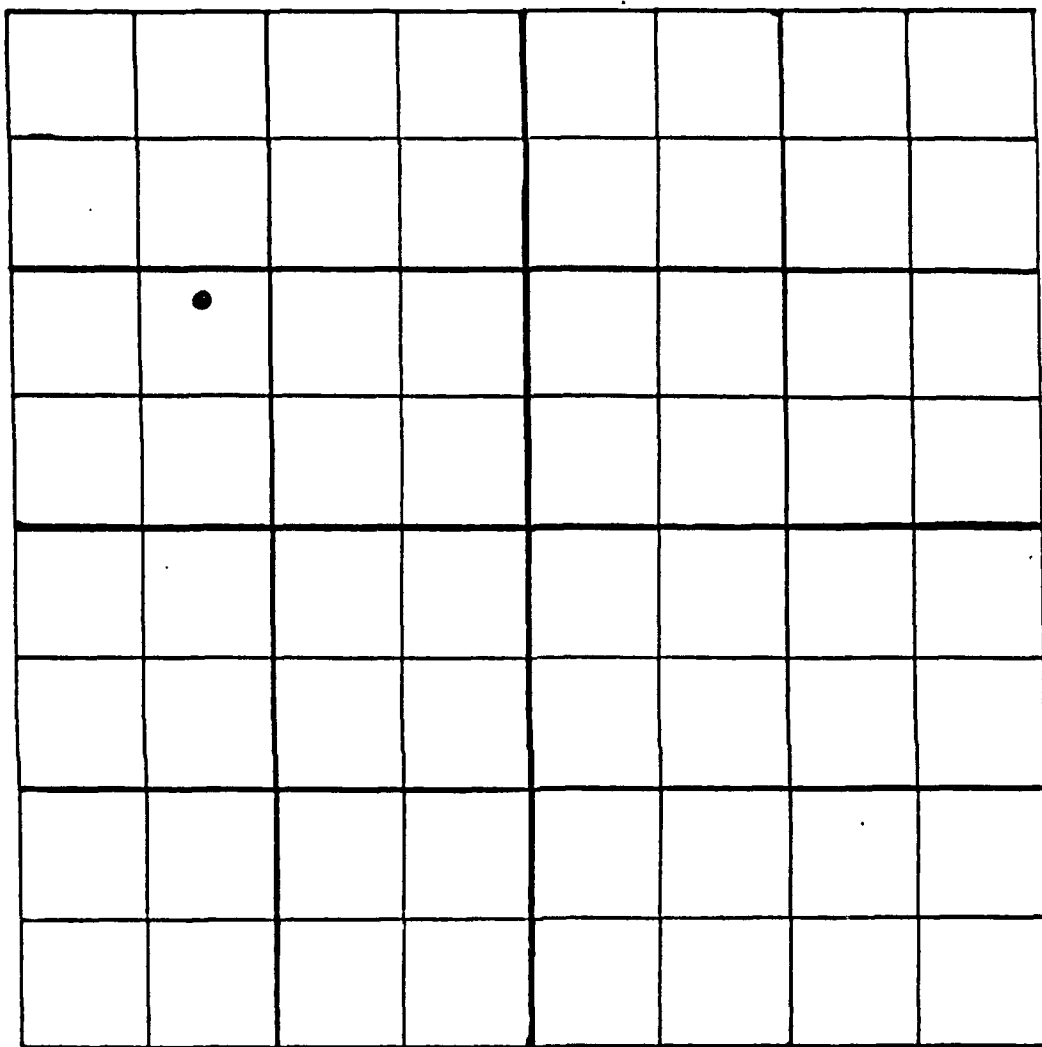
Not near wells into same aquifer 5
Near many wells into the same aquifer (0)

TOTAL* (will be sampled if total = 20): 5

* Requests for specific wells to sample have been solicited from concerned parties and will be evaluated on a case by case basis.

Well Location Diagram:

Well # 33A10
Sec. # 33



NE 1/4 of SW 1/4 of NW 1/4 of Sec. 33 T 2 S R 67 W



Well # 33A10

Well Location Description:

Section # 33

LOCATED WELL EAST OF WEST BOUNDARY
ROAD JUST SOUTH OF THE POINT WHERE
IT CROSSES THE RAILROAD TRACKS.

CASING DIAM = 3.9 FT X 5 FT PIT

CASING TYPE = CONCRETE

OPEN DEPTH = 4 FT, DIRT FILL

HEIGHT = ϕ

REPORTED DEPTH = 57 FT

(SEE SKETCH FOR 33A09)

Well Not Closed

First Level Field Search Priority List.

WELL NUMBER: 33A11

LOCATION: Township 2 S Rng 67 W Section 33
Qtr SW Qtr NW

In plume	(15)
Downgradient of plume	10
Outside plume, not downgradient	5

AQUIFER: ?

Arapahoe or Arapahoe and any other aquifer	(15)
Denver and alluvium	10
Denver	5
Alluvium	3

AGE: _____

pre-1942	(10)
post-1942	5

DEPTH: ? feet

Greater than 200 feet	(10)
100 to 200 feet	5
less than 100 feet	1

ADDITIONAL: _____

Requested	25
Physically hazardous	10

TOTAL (search if ≥ 25 points, 75 maximum): 50

Well Located

Water Sampling Criteria.

WELL NUMBER: 33411

LOCATION: Twnshp 2 S Rng 67 W Section 33
SW Qtr NW Qtr

WELL CONSTRUCTION: _____

Well construction details known
Well construction details unknown

5
0

ASSOCIATED CONTAMINANTS: _____

In plume or within one-half mile of plume
Beyond one-half mile from plume

5
0

AQUIFER: _____

Arapahoe or Denver
Alluvium

5
0

ASSOCIATED WELLS: _____

Not near wells into same aquifer
Near many wells into the same aquifer

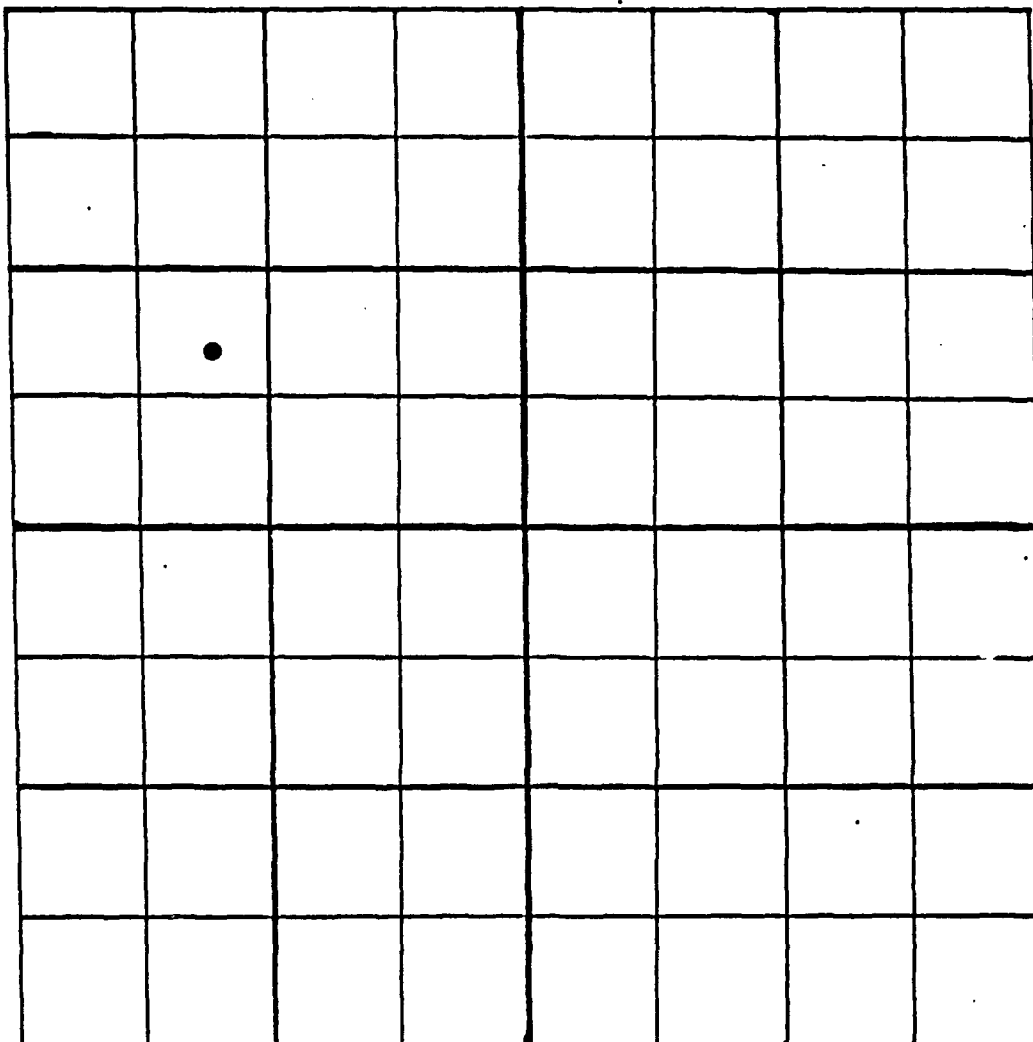
5
0

TOTAL* (will be sampled if total = 20): 15

* Requests for specific wells to sample have been solicited from concerned parties and will be evaluated on a case by case basis.

Well Location Diagram:

Well # 33A11
Sec. # 33



NE 1/4 of SW 1/4 of NW 1/4 of Sec. 33 T 2 S R 67 W



Well # 33A11

Well Location Description:

Section # 33

LOCATED WELL AT EXTREME EAST
END OF ROW OF TREES THAT IS
ADJACENT TO 33A09 & 33A10.

CASING DIAM = 4 FT X 5 FT PIT

CASING TYPE = CONCRETE

OPEN DEPTH = $1\frac{1}{2}$ FT (FILLED WITH
CONSTRUCTION DEBRIS)

HEIGHT = ϕ

REPORTED DEPTH = UNKNOWN

(SEE SKETCH FOR 33A09)

Well Not Closed

First Level Field Search Priority List.

WELL NUMBER: 34001

LOCATION: Twnshp 2 S Rng 67 W Section 34
Qtr NE Qtr NE

In plume	(15)
Downgradient of plume	10
Outside plume, not downgradient	5

AQUIFER: _____

Arapahoe or Arapahoe and any other aquifer	15
Denver and alluvium	10
Denver	5
Alluvium	(3)

AGE: _____

pre-1942	10
post-1942	(5)

DEPTH: _____ feet

Greater than 200 feet	10
100 to 200 feet	5
less than 100 feet	(1)

ADDITIONAL: _____

Requested	25
Physically hazardous	10

TOTAL (search if $\geq$ 25 points, 75 maximum): 24

First Level Field Search Priority List.

WELL NUMBER: 34A01

LOCATION: Township 2 S Rng 67 W Section 34
Qtr SW Qtr SW

In plume	(15)
Downgradient of plume	10
Outside plume, not downgradient	5

AQUIFER: ?

Arapahoe or Arapahoe and any other aquifer	(15)
Denver and alluvium	10
Denver	5
Alluvium	3

AGE: _____

pre-1942	(10)
post-1942	5

DEPTH: ? feet

Greater than 200 feet	(10)
100 to 200 feet	5
less than 100 feet	1

ADDITIONAL: _____

Requested	(25) *
Physically hazardous	10

TOTAL (search if $\geq$ 25 points, 75 maximum): 75

* Requested by Shell, probably should be 35A01

Well Located

Water Sampling Criteria.

WELL NUMBER: 34A01

LOCATION: Twnshp 2 S Rng 67 W Section 34
SW Qtr SW Qtr

WELL CONSTRUCTION: _____

Well construction details known 5
Well construction details unknown (0)

ASSOCIATED CONTAMINANTS: _____

In plume or within one-half mile of plume (5)
Beyond one-half mile from plume 0

AQUIFER: _____

Arapahoe or Denver (5)
Alluvium 0

ASSOCIATED WELLS: _____

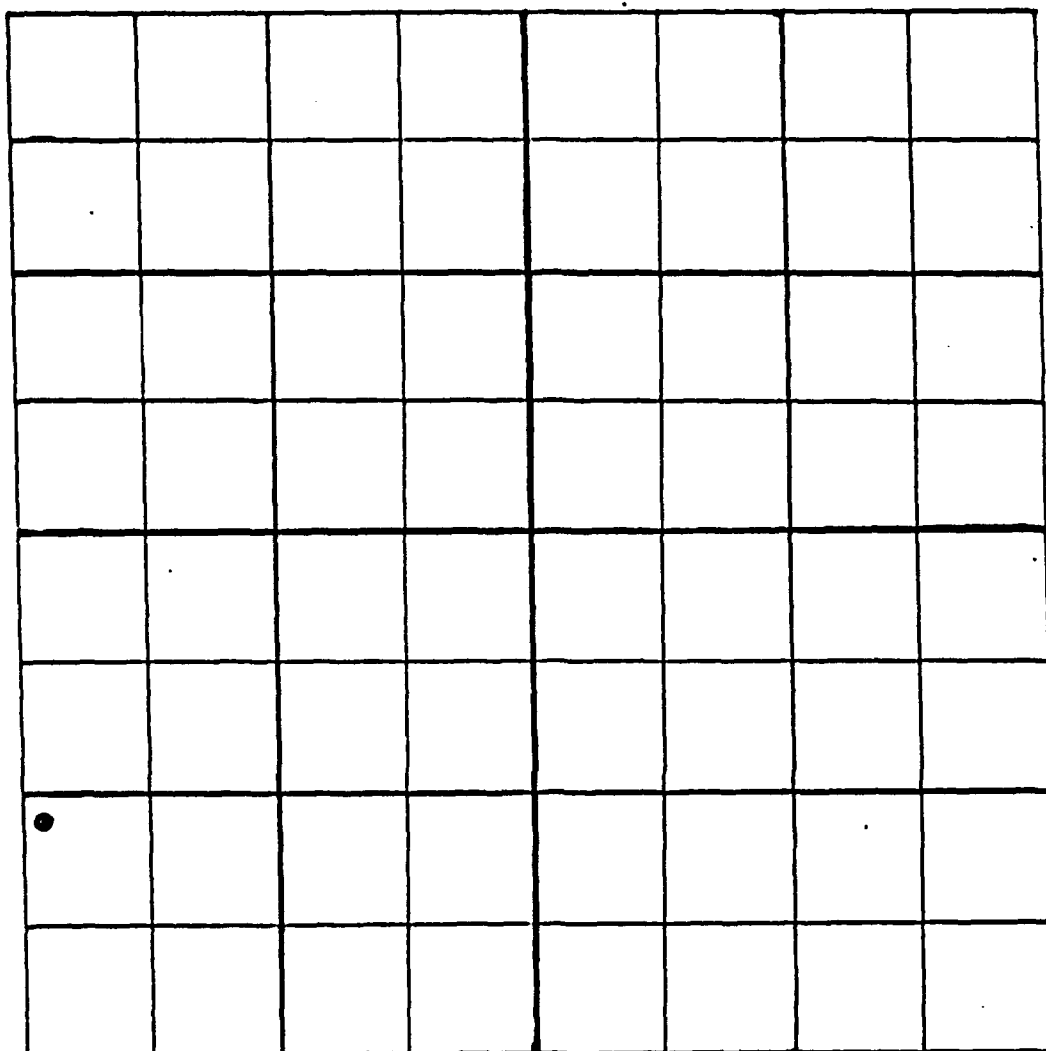
Not near wells into same aquifer (5)
Near many wells into the same aquifer 0

TOTAL* (will be sampled if total = 20): 15

* Requests for specific wells to sample have been solicited from concerned parties and will be evaluated on a case by case basis.

Well Location Diagram:

Well # 34A01
Sec. # 34



NW 1/4 of SW 1/4 of SW 1/4 of Sec. 34 T 2 S R 67 W



Well # 34A01

Well Location Description:

Section # 34

LOCATED WELL APPROXIMATELY 0.23 miles
N AND 150 FT E OF SW SECTION
CORNER.

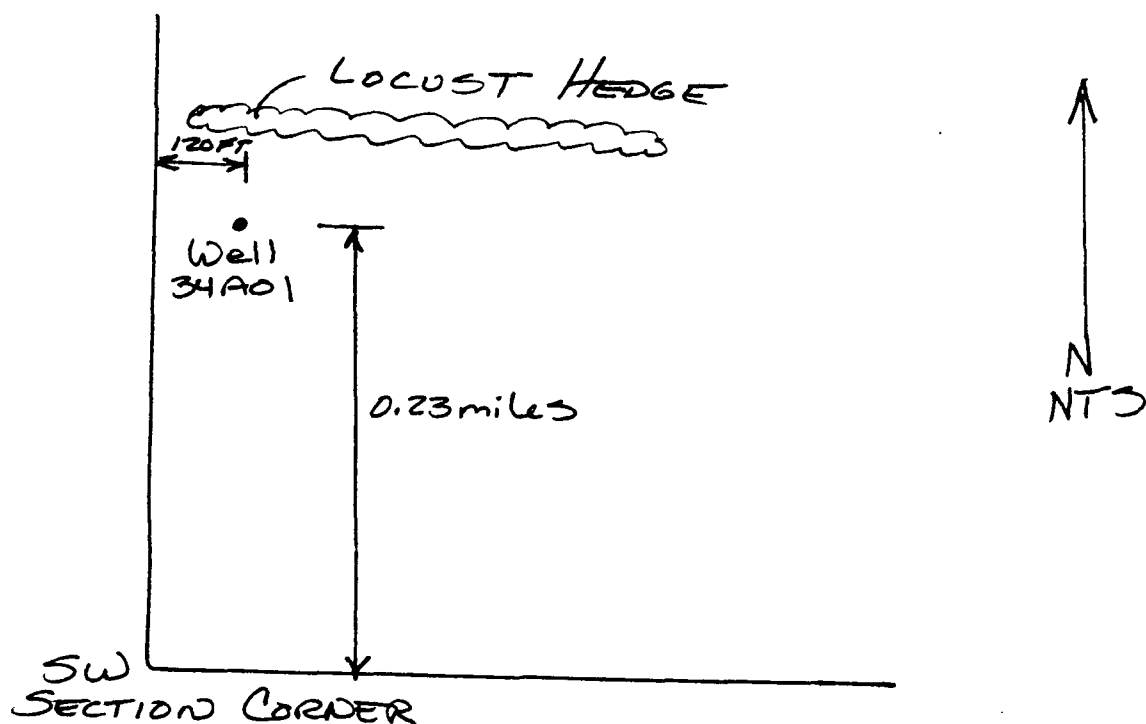
CASING DIAM = 2.3 FT

CASING TYPE = BRICK

OPEN DEPTH = 29 FT

HEIGHT = ϕ

REPORTED DEPTH = UNKNOWN



Well Not Closed

First Level Field Search Priority List.

WELL NUMBER: 35001

LOCATION: Twnshp 2 S Rng 67 W Section 35
Qtr SE Qtr NE

In plume	(15)
Downgradient of plume	10
Outside plume, not downgradient	5

AQUIFER: _____

Arapahoe or Arapahoe and any other aquifer	15
Denver and alluvium	10
Denver	5
Alluvium	(3)

AGE: _____

pre-1942	10
post-1942	(5)

DEPTH: _____ feet

Greater than 200 feet	10
100 to 200 feet	5
less than 100 feet	(1)

ADDITIONAL: _____

Requested	25
Physically hazardous	10

TOTAL (search if $\geq$ 25 points, 75 maximum): 24

First Level Field Search Priority List.

WELL NUMBER: 35004

LOCATION: Twnshp 2 S Rng 67 W Section 35
Qtr NW Qtr NW

In plume	(15)
Downgradient of plume	10
Outside plume, not downgradient	5

AQUIFER: _____

Arapahoe or Arapahoe and any other aquifer	15
Denver and alluvium	10
Denver	5
Alluvium	(3)

AGE: _____

pre-1942	10
post-1942	(5)

DEPTH: _____ feet

Greater than 200 feet	10
100 to 200 feet	5
less than 100 feet	(1)

ADDITIONAL: _____

Requested	25
Physically hazardous	10

TOTAL (search if $\geq$ 25 points, 75 maximum): 24

First Level Field Search Priority List.

WELL NUMBER: 35010

LOCATION: Twnshp 7S Rng 67W Section 35
Qtr NW Qtr NE

In plume	(15)
Downgradient of plume	10
Outside plume, not downgradient	5

AQUIFER: _____

Arapahoe or Arapahoe and any other aquifer	15
Denver and alluvium	10
Denver	(5)
Alluvium	3

AGE: _____

pre-1942	10
post-1942	(5)

DEPTH: _____ feet

Greater than 200 feet	10
100 to 200 feet	5
less than 100 feet	(1)

ADDITIONAL: _____

Requested	25
Physically hazardous	10

TOTAL (search if ≥ 25 points, 75 maximum): 26

Well Located

Water Sampling Criteria.

WELL NUMBER: 35010

LOCATION: Twnshp 2 S Rng 67 W Section 35
NW Qtr NE Qtr

WELL CONSTRUCTION: _____

Well construction details known (5)
Well construction details unknown 0

ASSOCIATED CONTAMINANTS: _____

In plume or within one-half mile of plume (5)
Beyond one-half mile from plume 0

AQUIFER: _____

Arapahoe or Denver (5)
Alluvium 0

ASSOCIATED WELLS: _____

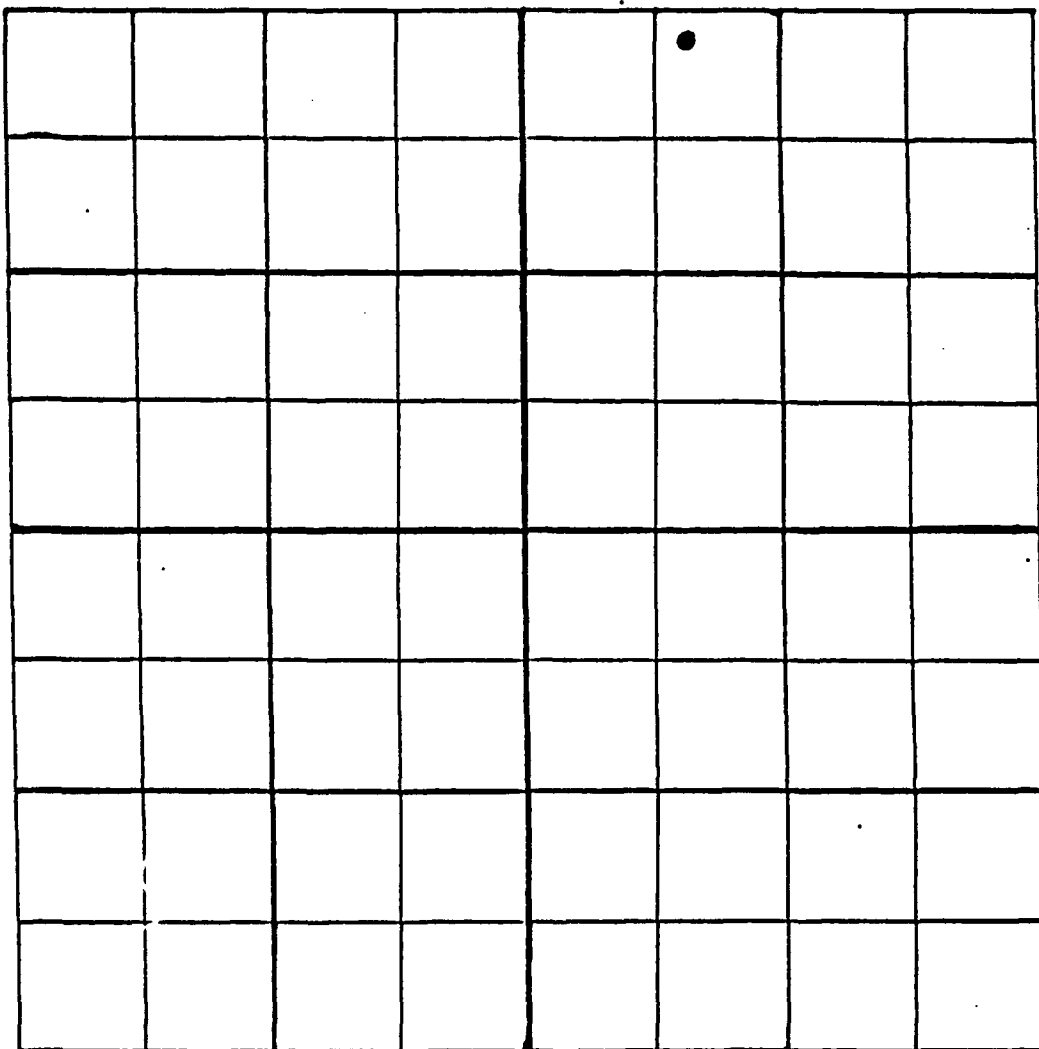
Not near wells into same aquifer 5
Near many wells into the same aquifer (0)

TOTAL* (will be sampled if total = 20): 15

* Requests for specific wells to sample have been solicited from concerned parties and will be evaluated on a case by case basis.

Well Location Diagram:

Well # 35010
Sec. # 35



NE 1/4 of NE 1/4 of NE 1/4 of Sec. 35 T 2S R 7W



Well # 35010

Well Location Description:

Section # 36

Located well according to the location indicated in the RIC
Section Plots and Well Summary Report.

Surface Casing Diameter = — in.

Casing Diameter = 2 in.

Casing Type = PVC

Open Depth = 56.8 ft.

Height above Land Surface = 2.3 ft.

Depth To Water = 22.6 ft.

Notes = CASING IS BROKEN OFF 2.3 FT ABOVE L.S.

Well Closed

First Level Field Search Priority List.

WELL NUMBER: 35019

LOCATION: Twnshp 2 S Rng 67 W Section 35
Qtr NW Qtr NE

In plume	(15)
Downgradient of plume	10
Outside plume, not downgradient	5

AQUIFER: _____

Arapahoe or Arapahoe and any other aquifer	15
Denver and alluvium	10
Denver	(5)
Alluvium	3

AGE: _____

pre-1942	10
post-1942	(5)

DEPTH: _____ feet

Greater than 200 feet	10
100 to 200 feet	5
less than 100 feet	(1)

ADDITIONAL: _____

Requested	25
Physically hazardous	10

TOTAL (search if ≥ 25 points, 75 maximum): 26

Well Located

Water Sampling Criteria.

WELL NUMBER: 35019

LOCATION: Twnshp 2 S Rng 67 W Section 35
NW Qtr NE Qtr

WELL CONSTRUCTION: _____

Well construction details known (5)
Well construction details unknown 0

ASSOCIATED CONTAMINANTS: _____

In plume or within one-half mile of plume (5)
Beyond one-half mile from plume 0

AQUIFER: _____

Arapahoe or Denver (5)
Alluvium 0

ASSOCIATED WELLS: _____

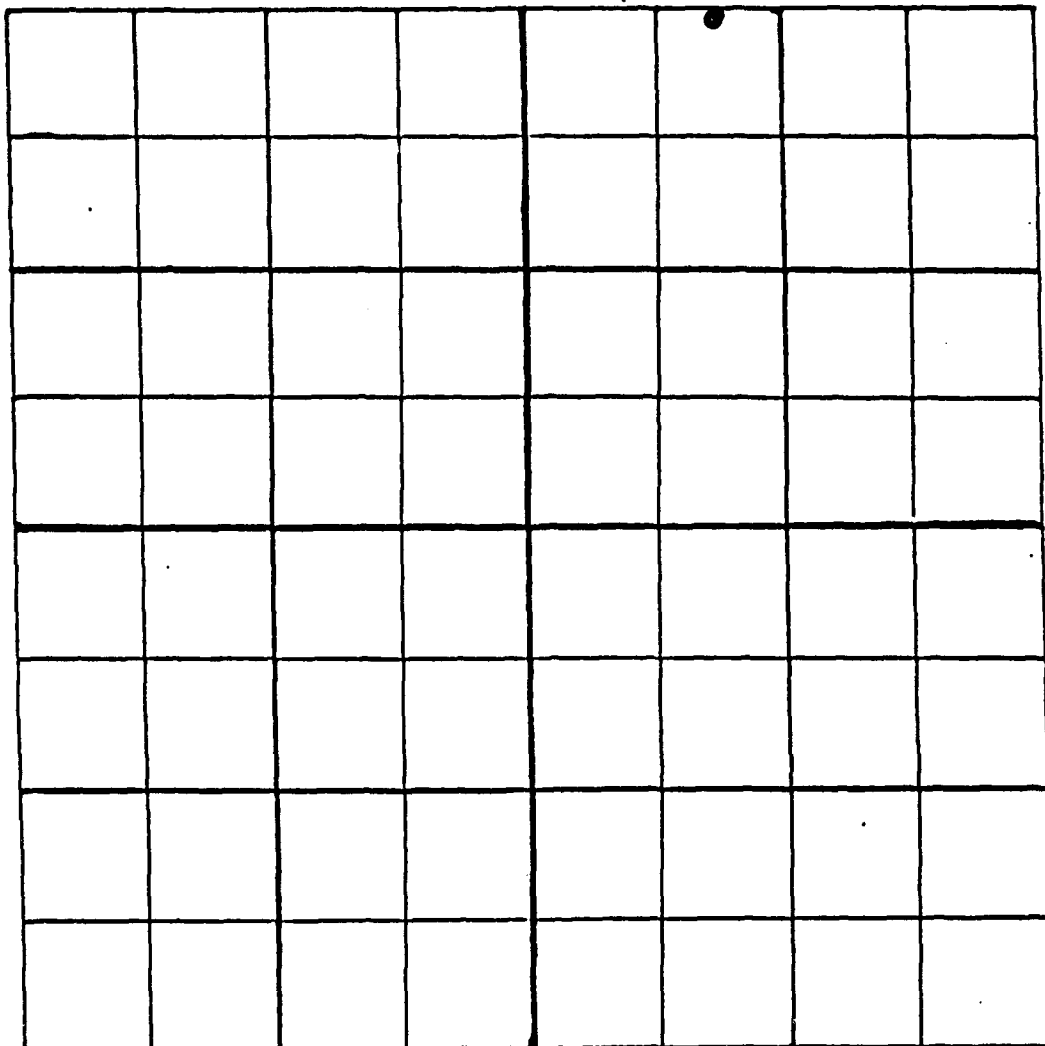
Not near wells into same aquifer 5
Near many wells into the same aquifer (0)

TOTAL* (will be sampled if total = 20): 15

* Requests for specific wells to sample have been solicited from concerned parties and will be evaluated on a case by case basis.

Well Location Diagram:

Well # 35019
Sec. # 35



NE 1/4 of NW 1/4 of NE 1/4 of Sec. 35 T2 S R6 W



Well # 35019

Well Location Description:

Section # 35

Located well according to the location indicated in the RIC
Section Plots and Well Summary Report.

Surface Casing Diameter = 6 in.

Casing Diameter = 2 in.

Casing Type = PVC

Open Depth = 95 ft.

Height above Land Surface = 2.5 ft.

Depth To Water = 24.7 ft.

Notes = WELL IS CAPPED

Well Closed

First Level Field Search Priority List.

WELL NUMBER: 35024

LOCATION: Twnshp 2 S Rng 67W Section 35
Qtr NE Qtr SE

In plume	(15)
Downgradient of plume	10
Outside plume, not downgradient	5

AQUIFER: _____

Arapahoe or Arapahoe and any other aquifer	15
Denver and alluvium	10
Denver	(5)
Alluvium	3

AGE: _____

pre-1942	10
post-1942	(5)

DEPTH: _____ feet

Greater than 200 feet	10
100 to 200 feet	5
less than 100 feet	(1)

ADDITIONAL: _____

Requested	25
Physically hazardous	10

TOTAL (search if $\geq$ 25 points, 75 maximum): 26

Well Located

Water Sampling Criteria.

WELL NUMBER: 35024

LOCATION: Twnshp 2 S Rng 67 W Section 35
NE Qtr SE Qtr

WELL CONSTRUCTION: _____

Well construction details known (5)
Well construction details unknown 0

ASSOCIATED CONTAMINANTS: _____

In plume or within one-half mile of plume (5)
Beyond one-half mile from plume 0

AQUIFER: _____

Arapahoe or Denver (5)
Alluvium 0

ASSOCIATED WELLS: _____

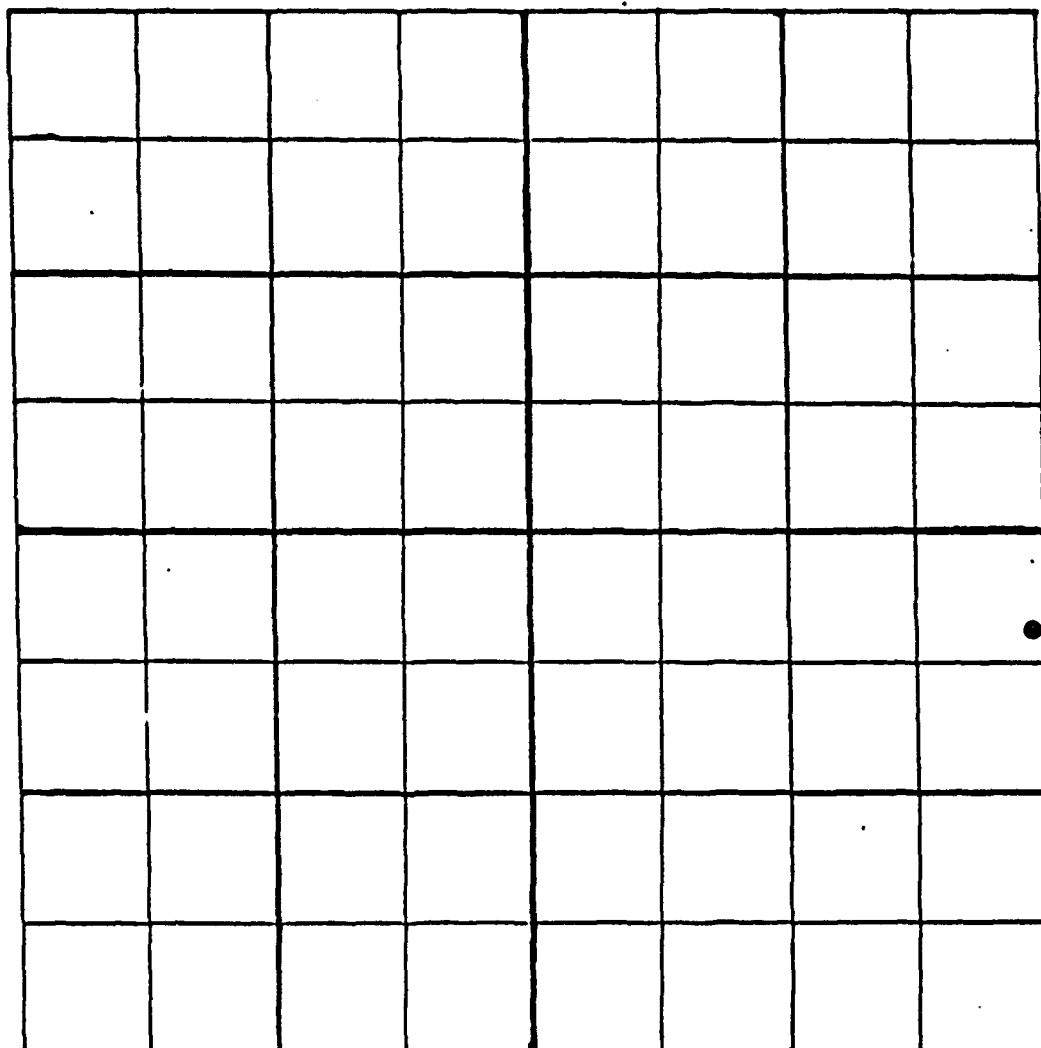
Not near wells into same aquifer 5
Near many wells into the same aquifer (0)

TOTAL* (will be sampled if total = 20): 15

* Requests for specific wells to sample have been solicited from concerned parties and will be evaluated on a case by case basis.

Well Location Diagram:

Well # 35024
Sec. # 35



NE 1/4 of NE 1/4 of SE 1/4 of Sec. 35 T 2 S R 67 W



Well # 35004

Well Location Description:

Section # 35

Located well according to the location indicated in the RIC
Section Plots and Well Summary Report.

Surface Casing Diameter = 6 in.

Casing Diameter = 2 in.

Casing Type = PVC

Open Depth = 63 ft.

Height above Land Surface = 2.6 ft.

Depth To Water = 10.4 ft.

Notes = WELL IS CAPPED

Well Closed

First Level Field Search Priority List.

WELL NUMBER: 35042

LOCATION: Twnshp 2 S Rng 67 W Section 35
Qtr SW Qtr NW

In plume	(15)
Downgradient of plume	10
Outside plume, not downgradient	5

AQUIFER: _____

Arapahoe or Arapahoe and any other aquifer	15
Denver and alluvium	10
Denver	5
Alluvium	(3)

AGE: _____

pre-1942	10
post-1942	(5)

DEPTH: _____ feet

Greater than 200 feet	10
100 to 200 feet	5
less than 100 feet	(1)

ADDITIONAL: _____

Requested	25
Physically hazardous	10

TOTAL (search if $\geq$ 25 points, 75 maximum): 24

First Level Field Search Priority List.

WELL NUMBER: 35043

LOCATION: Twnshp 2 S Rng 67 W Section 35
Qtr SE Qtr NW

In plume	(15)
Downgradient of plume	10
Outside plume, not downgradient	5

AQUIFER: _____

Arapahoe or Arapahoe and any other aquifer	15
Denver and alluvium	10
Denver	5
Alluvium	(3)

AGE: _____

pre-1942	10
post-1942	(5)

DEPTH: _____ feet

Greater than 200 feet	10
100 to 200 feet	5
less than 100 feet	(1)

ADDITIONAL: _____

Requested	25
Physically hazardous	10

TOTAL, (search if ≥ 25 points, 75 maximum): 24

First Level Field Search Priority List.

WELL NUMBER: 35044

LOCATION: Twnshp 2 S Rng 67 W Section 35
Qtr NW Qtr NE

In plume	(15)
Downgradient of plume	10
Outside plume, not downgradient	5

AQUIFER: _____

Arapahoe or Arapahoe and any other aquifer	15
Denver and alluvium	10
Denver	5
Alluvium	(3)

AGE: _____

pre-1942	10
post-1942	(5)

DEPTH: _____ feet

Greater than 200 feet	10
100 to 200 feet	5
less than 100 feet	(1)

ADDITIONAL: _____

Requested	25
Physically hazardous	10

TOTAL (search if ≥ 25 points, 75 maximum): 24

First Level Field Search Priority List.

WELL NUMBER: 35045

LOCATION: Township 2 S Rng 67 W Section 35
Qtr SE Qtr NE

In plume	(15)
Downgradient of plume	10
Outside plume, not downgradient	5

AQUIFER: _____

Arapahoe or Arapahoe and any other aquifer	15
Denver and alluvium	10
Denver	5
Alluvium	(3)

AGE: _____

pre-1942	10
post-1942	(5)

DEPTH: _____ feet

Greater than 200 feet	10
100 to 200 feet	5
less than 100 feet	(1)

ADDITIONAL: _____

Requested	25
Physically hazardous	10

TOTAL (search if $\geq$ 25 points, 75 maximum): 24

First Level Field Search Priority List.

WELL NUMBER: 35046

LOCATION: Twnshp 2 S Rng 67 W Section 35
Qtr NE Qtr NE

In plume	(15)
Downgradient of plume	10
Outside plume, not downgradient	5

AQUIFER: _____

Arapahoe or Arapahoe and any other aquifer	15
Denver and alluvium	10
Denver	5
Alluvium	(3)

AGE: _____

pre-1942	10
post-1942	(5)

DEPTH: _____ feet

Greater than 200 feet	10
100 to 200 feet	5
less than 100 feet	(1)

ADDITIONAL: _____

Requested	25
Physically hazardous	10

TOTAL (search if ≥ 25 points, 75 maximum): 24

First Level Field Search Priority List.

WELL NUMBER: 35049

LOCATION: Twnshp 2 S Rng 67W Section 35
Qtr SE Qtr NW

In plume	(15)
Downgradient of plume	10
Outside plume, not downgradient	5

AQUIFER: _____

Arapahoe or Arapahoe and any other aquifer	15
Denver and alluvium	10
Denver	(5)
Alluvium	3

AGE: _____

pre-1942	10
post-1942	(5)

DEPTH: _____ feet

Greater than 200 feet	10
100 to 200 feet	5
less than 100 feet	(1)

ADDITIONAL: _____

Requested	25
Physically hazardous	10

TOTAL (search if ≥ 25 points, 75 maximum): 26

Well Located

Water Sampling Criteria.

WELL NUMBER: 35049

LOCATION: Twnshp 2 S Rng 67 W Section 35
SE Qtr NW Qtr

WELL CONSTRUCTION: _____

Well construction details known (5)
Well construction details unknown 0

ASSOCIATED CONTAMINANTS: _____

In plume or within one-half mile of plume (5)
Beyond one-half mile from plume 0

AQUIFER: _____

Arapahoe or Denver (5)
Alluvium 0

ASSOCIATED WELLS: _____

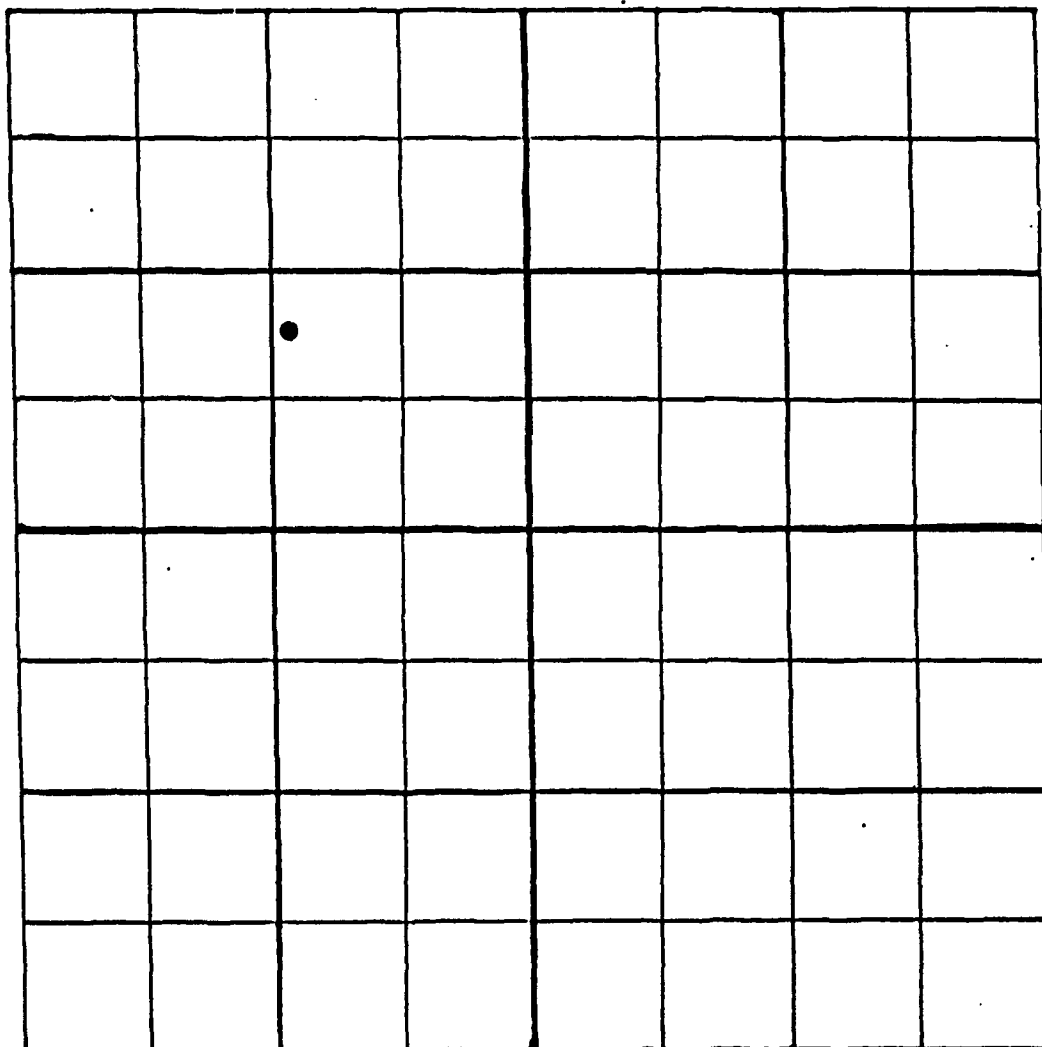
Not near wells into same aquifer 5
Near many wells into the same aquifer (0)

TOTAL* (will be sampled if total = 20): 15

* Requests for specific wells to sample have been solicited from concerned parties and will be evaluated on a case by case basis.

Well Location Diagram:

Well # 35049
Sec. # 35



NW 1/4 of SE 1/4 of NW 1/4 of Sec. 35 T 2 S R 67 W



Well # 35049

Well Location Description:

Section # 35

Located well according to the location indicated in the RIC
Section Plots and Well Summary Report.

Surface Casing Diameter = 6 in.

Casing Diameter = 2 in.

Casing Type = PVC

Open Depth = 66.4 ft.

Height above Land Surface = 2.2 ft.

Depth To Water = 29.0 ft.

Notes = CASING IS BROKEN OFF 2.2 FT ABOVE LS.

Well Closed

First Level Field Search Priority List.

WELL NUMBER: 35A01

LOCATION: Twnshp 2 S Rng 67 W Section 35
Qtr SW Qtr NW

In plume	(15)
Downgradient of plume	10
Outside plume, not downgradient	5

AQUIFER: _____

Arapahoe or Arapahoe and any other aquifer	15
Denver and alluvium	(10)
Denver	5
Alluvium	3

AGE: _____

pre-1942	(10)
post-1942	5

DEPTH: _____ feet

Greater than 200 feet	10
100 to 200 feet	(5)
less than 100 feet	1

ADDITIONAL: _____

Requested	(25) *
Physically hazardous	10

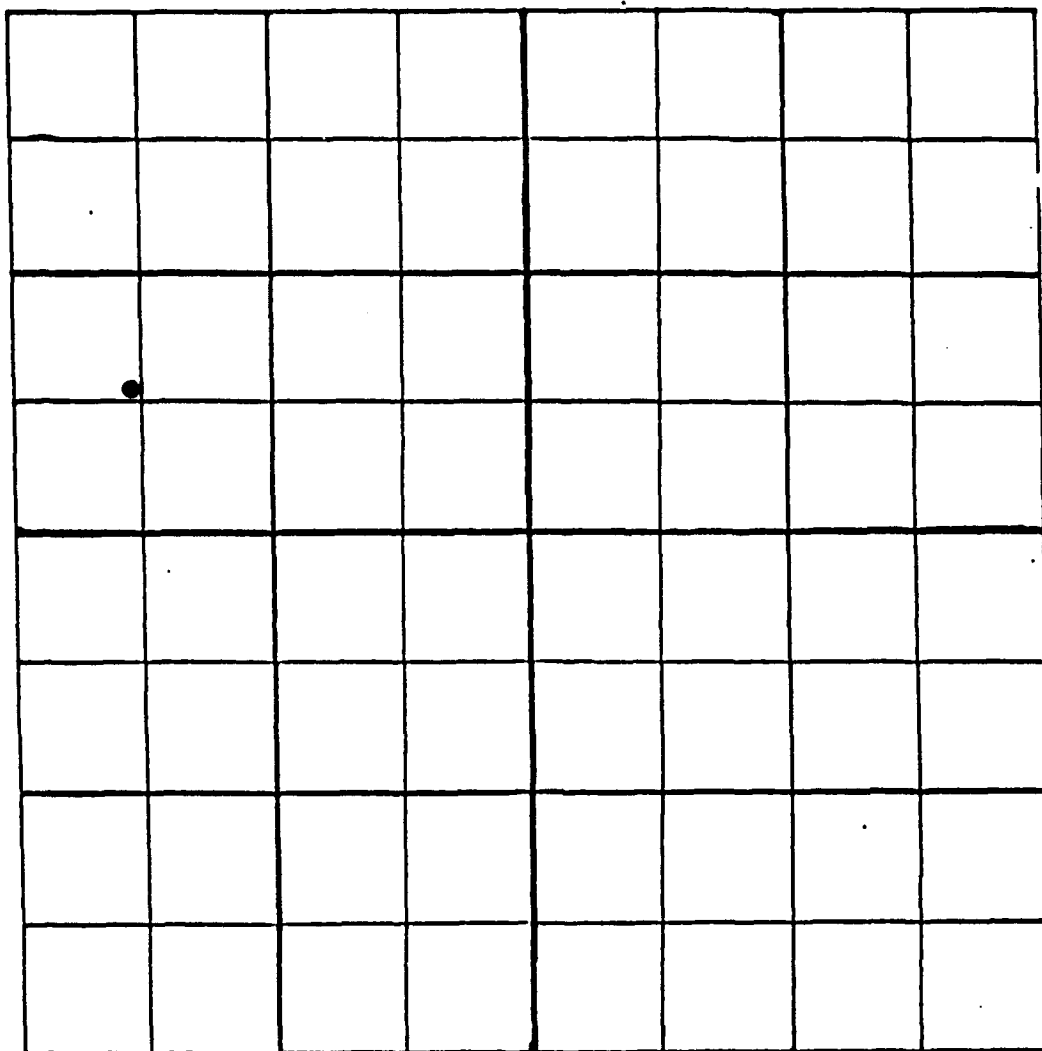
TOTAL (search if ≥ 25 points, 75 maximum): 65

* Shell Requested 34A01, but probably intended to Request 35A01.

Well Not Located

Well Location Diagram:

Well # 35A01
Sec. # 35



NW1/4 of SW1/4 of NW1/4 of Sec. 35 T2S R67W



Well # 35A01

Well Location Description:

Section # 35

LOCATED REMAINS OF WELL AT
REPORTED LOCATION. WELL WAS
REPORTED PLUGGED BY THE COE IN
1962. SECTION OF 4IN CASING
ON SURFACE.

First Level Field Search Priority List.

WELL NUMBER: 35A02

LOCATION: Twnshp 2 S Rng 67 W Section 35
Qtr NW Qtr NW

In plume	(15)
Downgradient of plume	10
Outside plume, not downgradient	5

AQUIFER: _____

Arapahoe or Arapahoe and any other aquifer	15
Denver and alluvium	10
Denver	5
Alluvium	(3)

AGE: _____

pre-1942	(10)
post-1942	5

DEPTH: _____ feet

Greater than 200 feet	10
100 to 200 feet	5
less than 100 feet	(1)

ADDITIONAL: _____

Requested	25
Physically hazardous	10

TOTAL (search if $\geq$ 25 points, 75 maximum): 29

Well Located

Water Sampling Criteria.

WELL NUMBER: 35A02

LOCATION: Twnshp 2 S Rng 67 W Section 35
NW Qtr NW Qtr

WELL CONSTRUCTION: _____

Well construction details known 5
Well construction details unknown (0)

ASSOCIATED CONTAMINANTS: _____

In plume or within one-half mile of plume (5)
Beyond one-half mile from plume 0

AQUIFER: _____

Arapahoe or Denver 5
Alluvium (0)

ASSOCIATED WELLS: _____

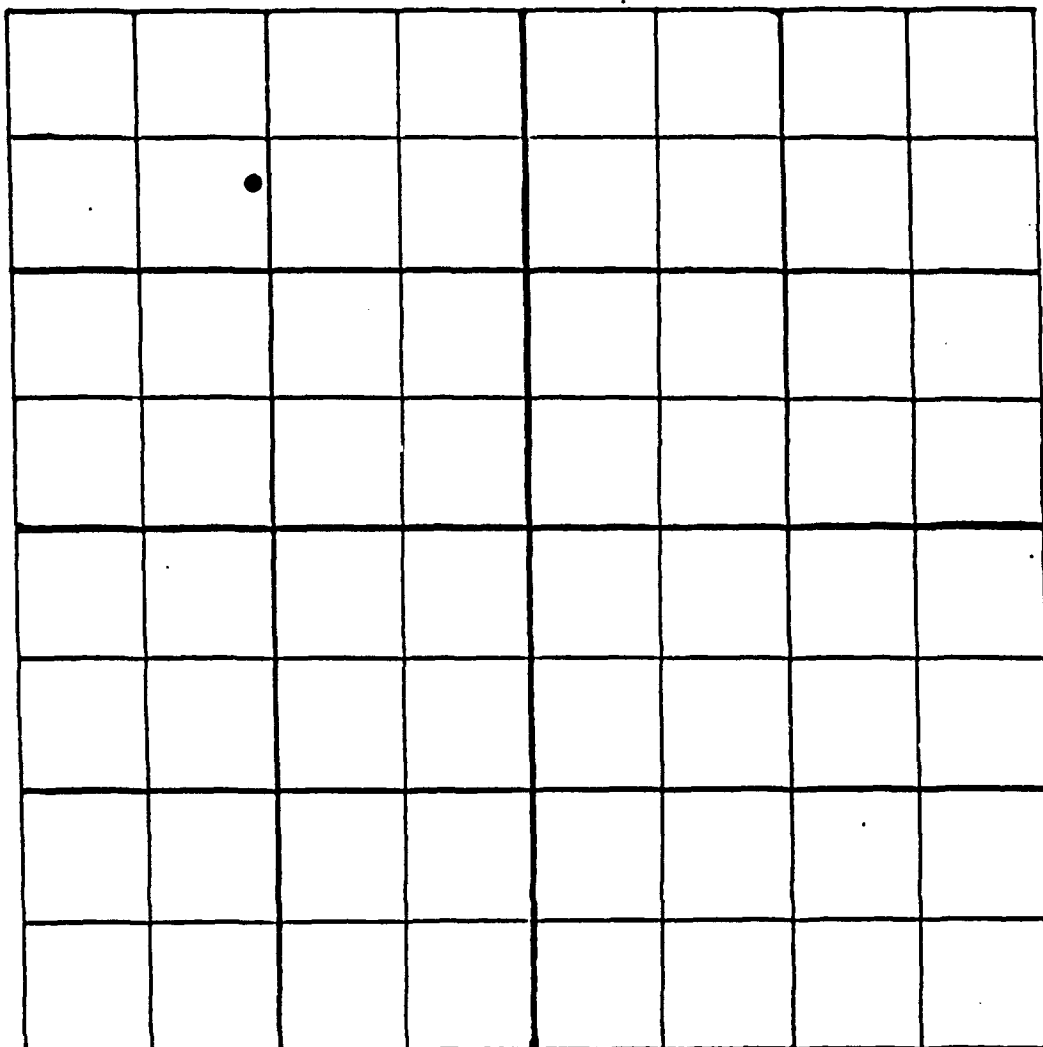
Not near wells into same aquifer 5
Near many wells into the same aquifer (0)

TOTAL* (will be sampled if total = 20): 5

* Requests for specific wells to sample have been solicited from concerned parties and will be evaluated on a case by case basis.

Well Location Diagram:

Well # 35402
Sec. # 35



SE 1/4 of NW 1/4 of NW 1/4 of Sec. 35 T 2 S R 67 W



Well # 35A02

Well Location Description:

Section # 35

LOCATED WELL APPROXIMATELY 0.25 miles
E AND 0.18 miles S OF NW SECTION
CORNER ON THE NE SIDE OF A
GROVE OF TREES.

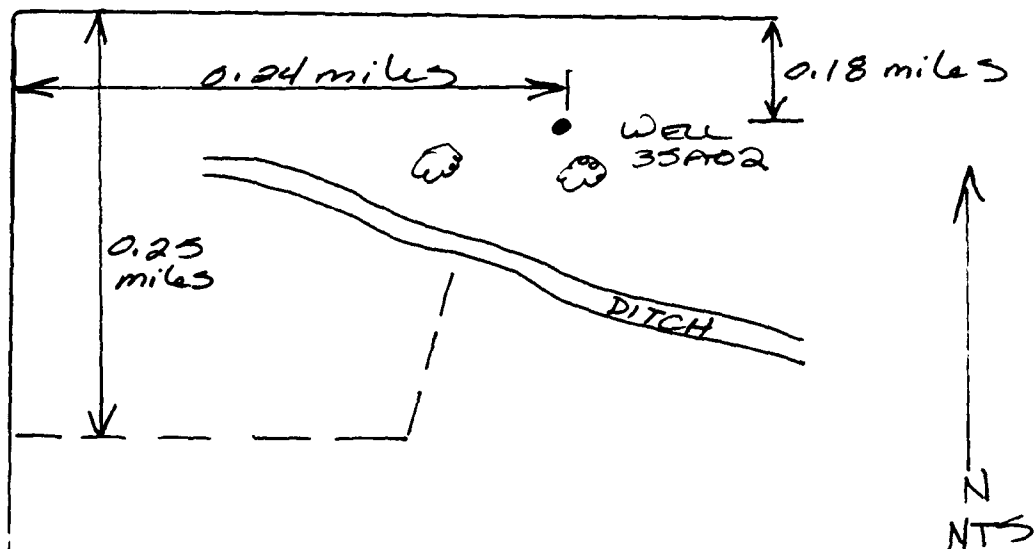
CASING TYPE = BRICK

CASING DIAM = 2.8 FT

OPEN DEPTH = 32 FT

HEIGHT = ϕ

REPORTED DEPTH = 35 FT



Well Not Closed

First Level Field Search Priority List.

WELL NUMBER: 35A03

LOCATION: Twnshp 2 S Rng 67 W Section 35
Qtr NE Qt: NE

In plume	(15)
Downgradient of plume	10
Outside plume, not downgradient	5

AQUIFER: 2

Arapahoe or Arapahoe and any other aquifer	(15)
Denver and alluvium	10
Denver	5
Alluvium	3

AGE: _____

pre-1942	(10)
post-1942	5

DEPTH: ? feet

Greater than 200 feet	(10)
100 to 200 feet	5
less than 100 feet	1

ADDITIONAL: _____	(25)
Requested	10
Physically hazardous	

TOTAL (search if $\geq$ 25 points, 75 maximum): 75

Well Located

Water Sampling Criteria.

WELL NUMBER: 35A03

LOCATION: Twnshp 2 S Rng 67 W Section 35
NE Qtr NE Qtr

WELL CONSTRUCTION: _____

Well construction details known 5
Well construction details unknown ⑤

ASSOCIATED CONTAMINANTS: _____

In plume or within one-half mile of plume ⑤
Beyond one-half mile from plume 0

AQUIFER: _____

Arapahoe or Denver ⑤
Alluvium 0

ASSOCIATED WELLS: _____

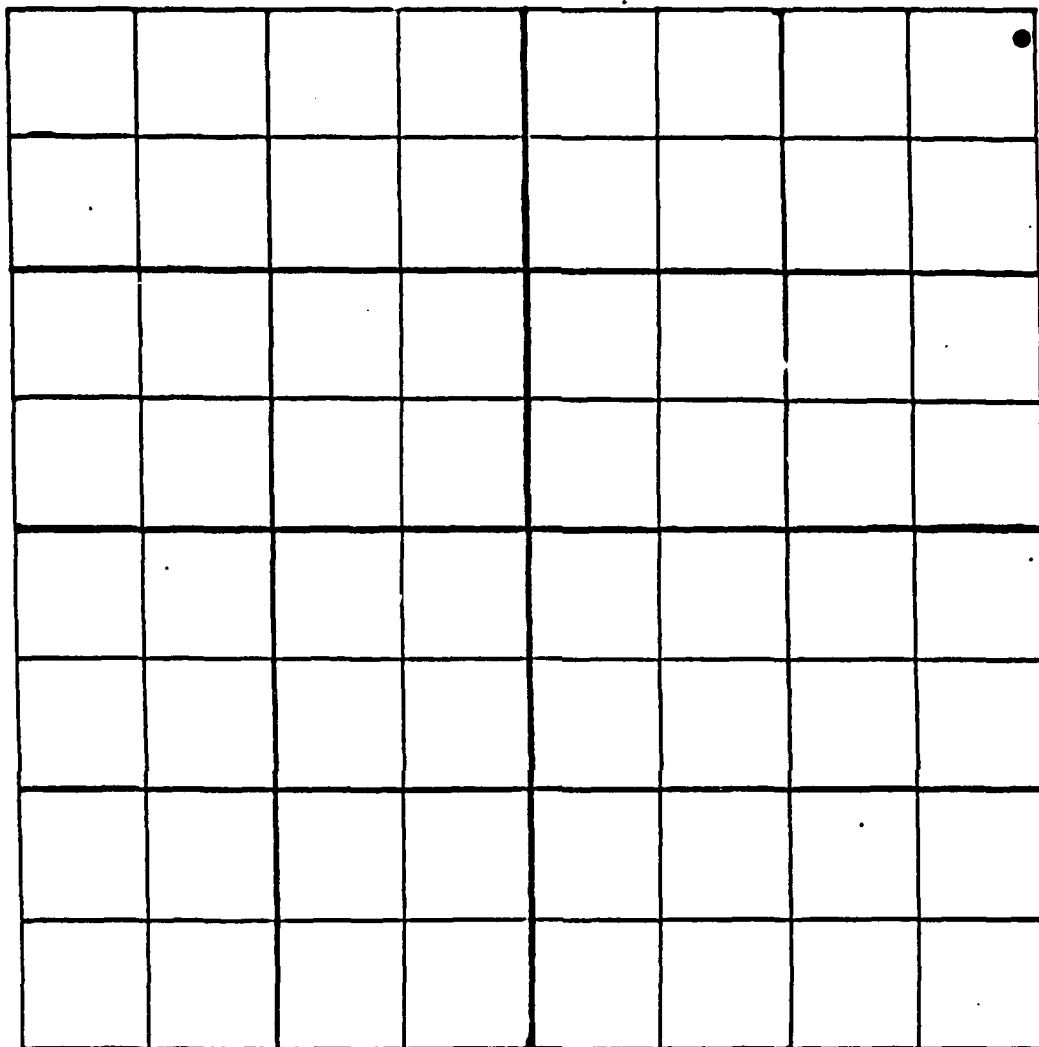
Not near wells into same aquifer ⑤
Near many wells into the same aquifer 0

TOTAL* (will be sampled if total = 20): 15

* Requests for specific wells to sample have been solicited from concerned parties and will be evaluated on a case by case basis.

Well Location Diagram:

Well # 35A03
Sec. # 35



NE 1/4 of NE 1/4 of NE 1/4 of Sec. 35 T2 S R67 W



Well # 35A03

Well Location Description:

Section # 35

LOCATED WELL WEST OF BLDG. 831
APPROXIMATELY 100 FT WEST AND 100 FT
SOUTH OF THE NE SECTION
CORNER.

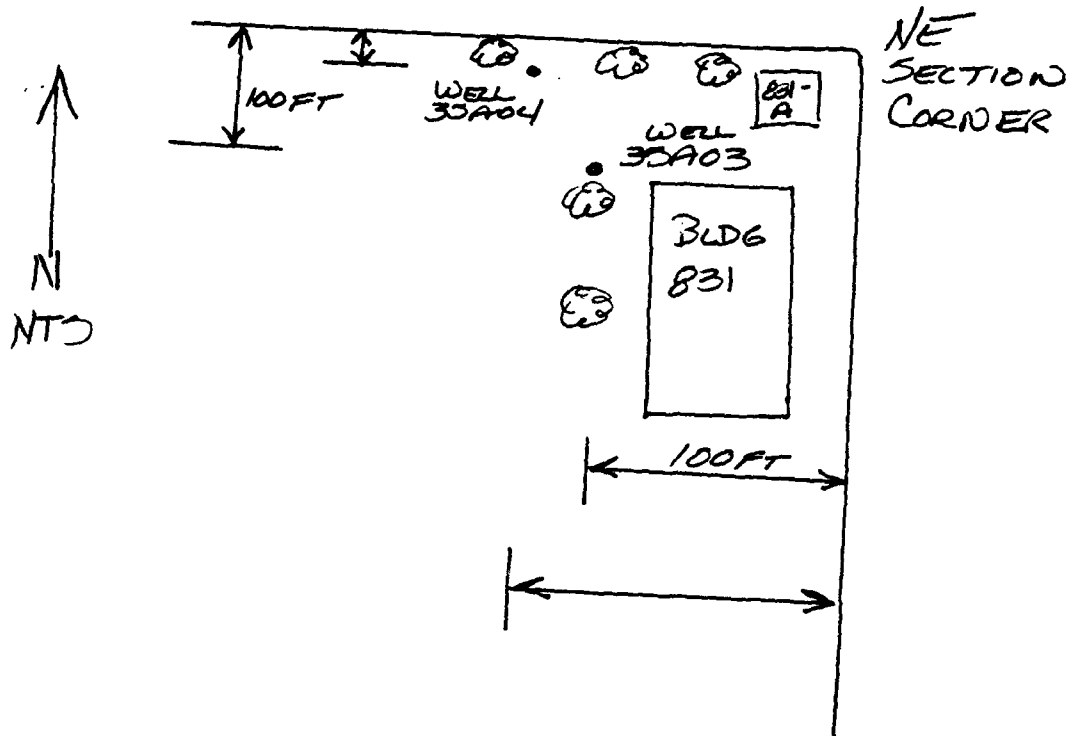
CASING DIAM = 4 in

CASING TYPE = STEEL, $\frac{1}{4}$ in THICK

OPEN DEPTH = 2 FT (DIRT FILL)

HEIGHT = 0.8 FT

REPORTED DEPTH = UNKNOWN



Well Not Closed

First Level Field Search Priority List.

WELL NUMBER: 35A04

LOCATION: Twnshp 2 S Rng 67 W Section 35
Qtr NE Qtr NE

In plume	(15)
Downgradient of plume	10
Outside plume, not downgradient	5

AQUIFER: _____

Arapahoe or Arapahoe and any other aquifer	(15)
Denver and alluvium	10
Denver	5
Alluvium	3

AGE: _____

pre-1942	(10)
post-1942	5

DEPTH: _____ feet

Greater than 200 feet	(10)
100 to 200 feet	5
less than 100 feet	1

ADDITIONAL: _____

Requested	25
Physically hazardous	10

TOTAL (search if $\geq$ 25 points, 75 maximum): 50

Well Located

Water Sampling Criteria.

WELL NUMBER: 35A04

LOCATION: Twnshp 2 S Rng 67 W Section 35
NE Qtr NE Qtr

WELL CONSTRUCTION: _____

Well construction details known 5
Well construction details unknown (0)

ASSOCIATED CONTAMINANTS: _____

In plume or within one-half mile of plume (5)
Beyond one-half mile from plume 0

AQUIFER: _____

Arapahoe or Denver (5)
Alluvium 0

ASSOCIATED WELLS: _____

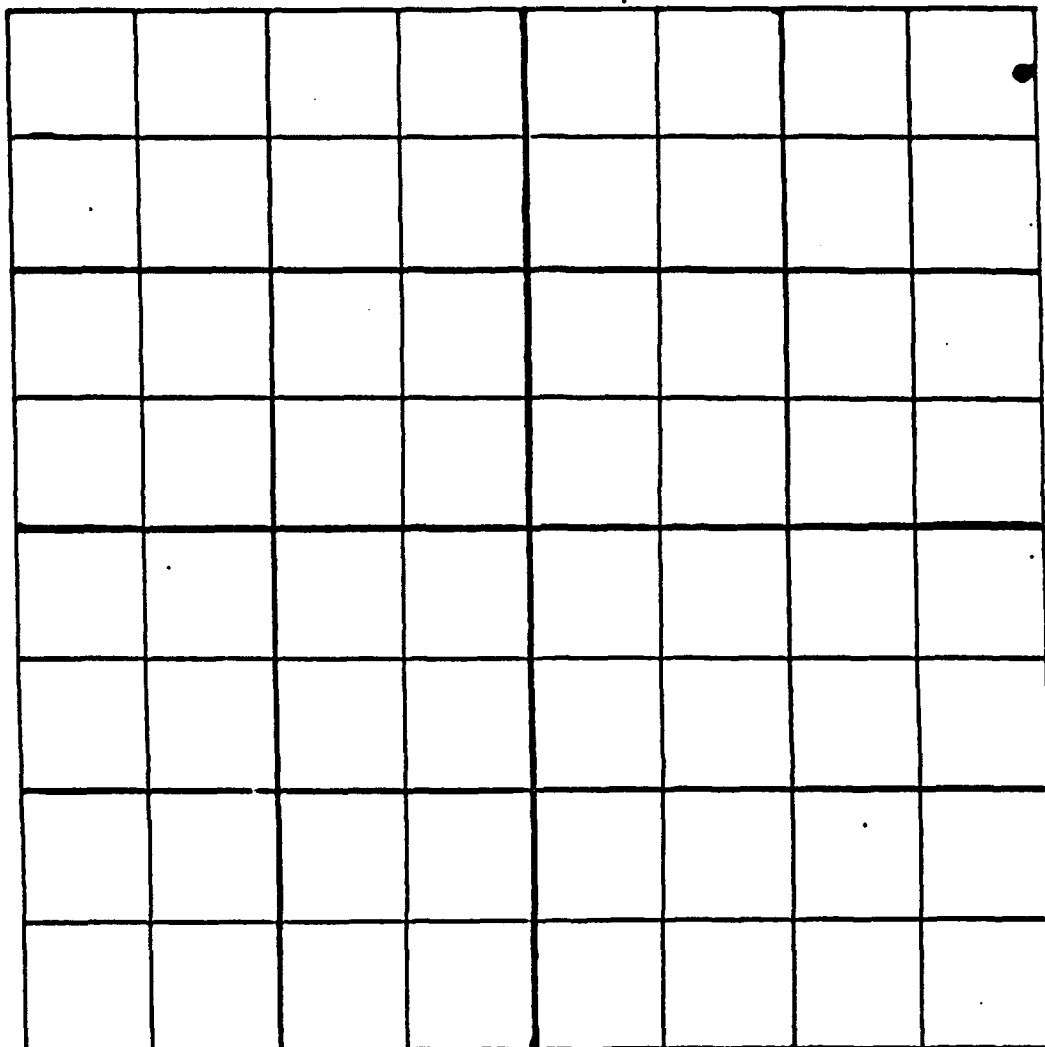
Not near wells into same aquifer (5)
Near many wells into the same aquifer 0

TOTAL* (will be sampled if total = 20): 15

* Requests for specific wells to sample have been solicited from concerned parties and will be evaluated on a case by case basis.

Well Location Diagram:

Well # 35A04
Sec. # 35



NE 1/4 of NE 1/4 of NE 1/4 of Sec. 35 T2S R67W



Well # 35A04

Well Location Description:

Section # 35

LOCATED WELL APPROXIMATELY 125 FT
W AND 75 FT S OF NE SECTION
CORNER. PLUGGED AT 6 FT. COE.
REPORTEDLY PLUGGED IN 1962.
HINGED WELL COVER.

CASING DIAM = 6 in
CASING TYPE = STEEL $\frac{1}{4}$ in THICK
OPEN DEPTH = 6 FT (PLUGGED ?)
HEIGHT = 0.5 FT
REPORTED DEPTH = 650 FT.

(SEE SKETCH FOR 35A03)

Well Not Closed

First Level Field Search Priority List.

WELL NUMBER: 36002

LOCATION: Twnshp 2 S Rng 67 W Section 36
Qtr NW Qtr NW

In plume	(15)
Downgradient of plume	10
Outside plume, not downgradient	5

AQUIFER: _____

Arapahoe or Arapahoe and any other aquifer	15
Denver and alluvium	10
Denver	(5)
Alluvium	3

AGE: _____

pre-1942	10
post-1942	(5)

DEPTH: _____ feet

Greater than 200 feet	10
100 to 200 feet	5
less than 100 feet	(1)

ADDITIONAL: _____

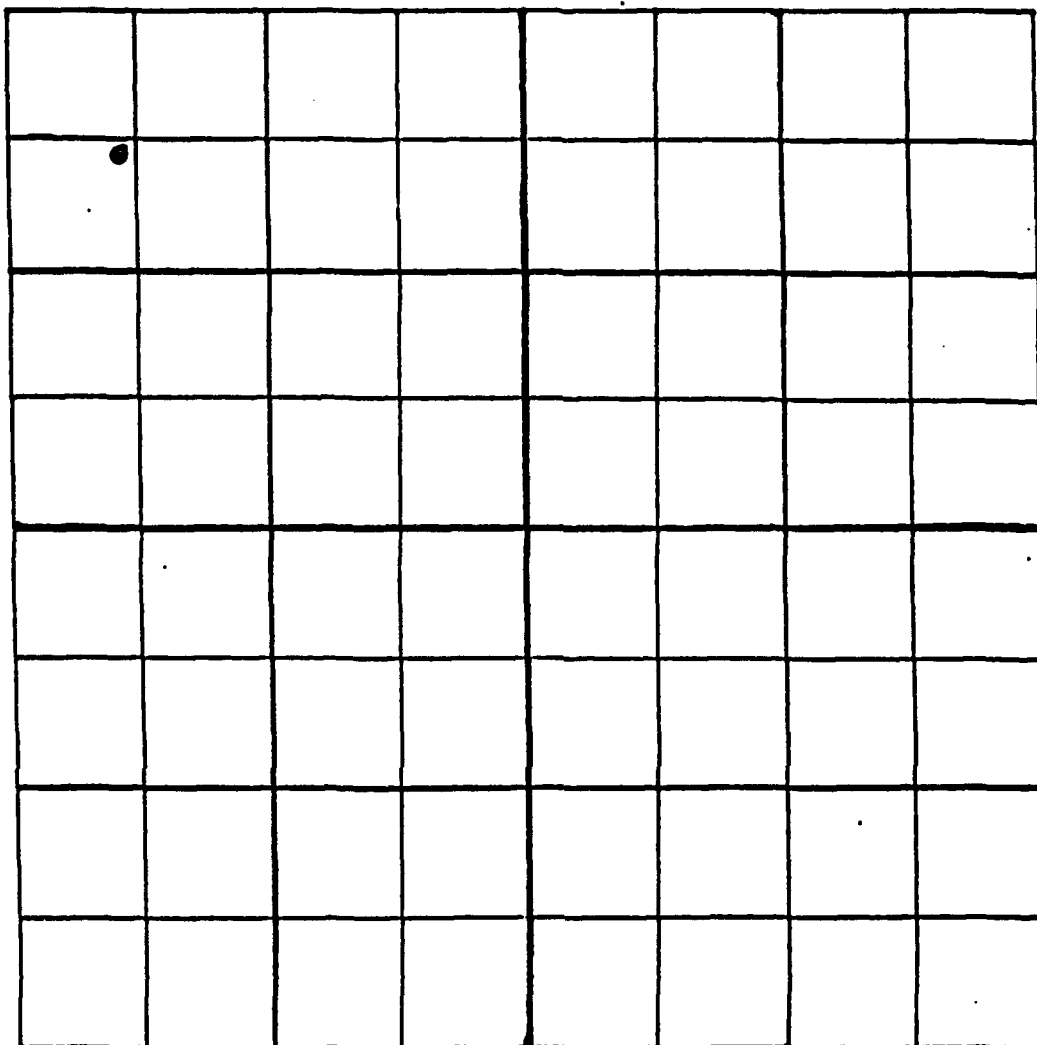
Requested	25
Physically hazardous	10

TOTAL (search if $\geq$ 25 points, 75 maximum): 26

Well Not Located

Well Location Diagram:

Well # 36002
Sec. # 36



SW1/4 of NW1/4 of NW1/4 of Sec. 36 T2S R6W



First Level Field Search Priority List.

WELL NUMBER: 36012

LOCATION: Twnshp 2 S Rng 67 W Section 36
Qtr NW Qtr NW

In plume	(15)
Downgradient of plume	10
Outside plume, not downgradient	5

AQUIFER: _____

Arapahoe or Arapahoe and any other aquifer	15
Denver and alluvium	10
Denver	(5)
Alluvium	3

AGE: _____

pre-1942	10
post-1942	(5)

DEPTH: _____ feet

Greater than 200 feet	10
100 to 200 feet	5
less than 100 feet	(1)

ADDITIONAL: _____

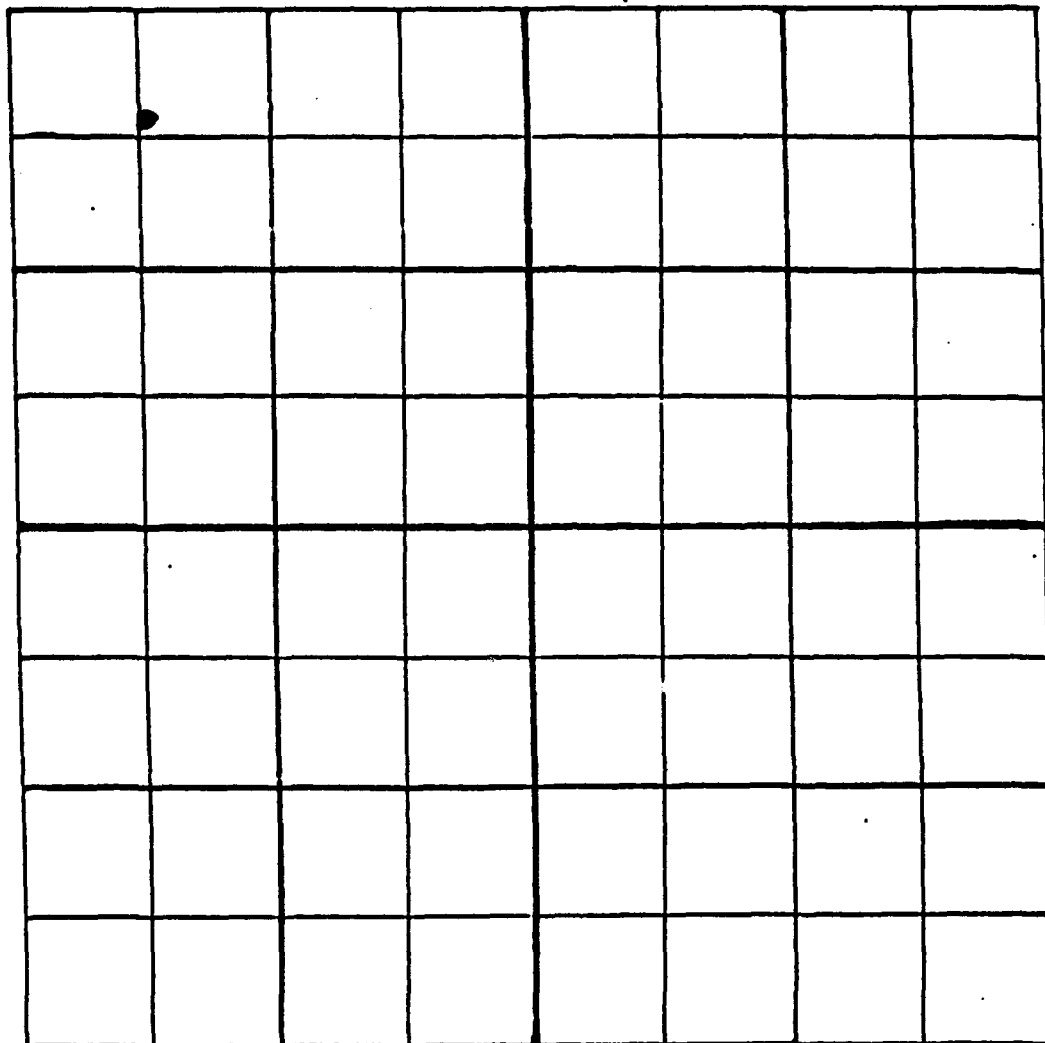
Requested	25
Physically hazardous	10

TOTAL (search if $\geq$ 25 points, 75 maximum): 26

Well Not Located

Well Location Diagram:

Well # 36012
Sec. # 36



NE 1/4 of NW 1/4 of NW 1/4 of Sec. 36 T 2 S R 67 W



First Level Field Search Priority List.

WELL NUMBER: 36037

LOCATION: Twnshp 2 S Rng 67 W Section 36
Qtr NW Qtr SW

In plume	(15)
Downgradient of plume	10
Outside plume, not downgradient	5

AQUIFER: _____

Arapahoe or Arapahoe and any other aquifer	15
Denver and alluvium	10
Denver	(5)
Alluvium	3

AGE: _____

pre-1942	10
post-1942	(5)

DEPTH: _____ feet

Greater than 200 feet	10
100 to 200 feet	5
less than 100 feet	(1)

ADDITIONAL: _____

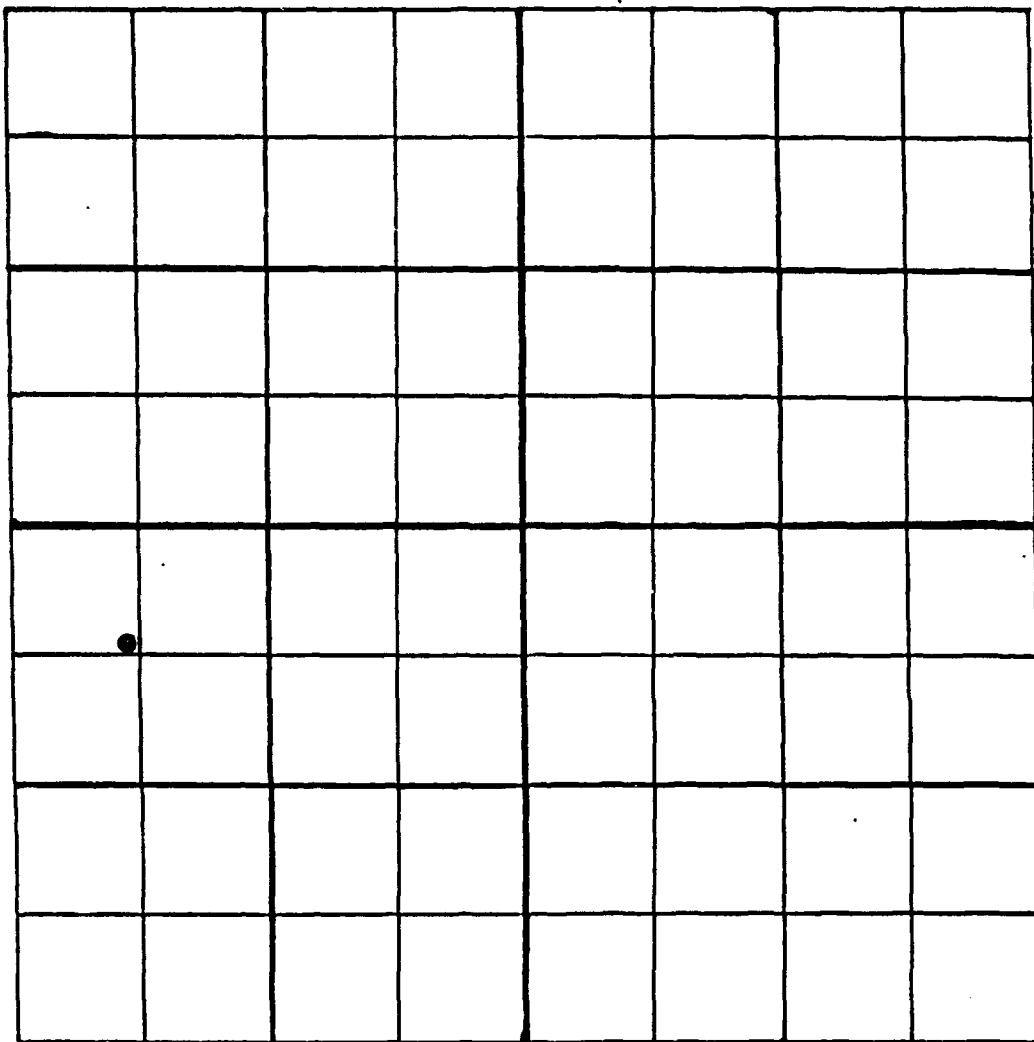
Requested	25
Physically hazardous	10

TOTAL (search if $\geq$ 25 points, 75 maximum): 26

Well Not Located

Well Location Diagram:

Well # 36037
Sec. # 36



NW 1/4 of NW 1/4 of SW 1/4 of Sec. 36 T 2 S R 67 W



First Level Field Search Priority List.

WELL NUMBER: 36038

LOCATION: Twnshp 2 S Rng 67 W Section 36
Qtr NW Qtr SW

In plume	(15)
Downgradient of plume	10
Outside plume, not downgradient	5

AQUIFER: _____

Arapahoe or Arapahoe and any other aquifer	15
Denver and alluvium	10
Denver	(5)
Alluvium	3

AGE: _____

pre-1942	10
post-1942	(5)

DEPTH: _____ feet

Greater than 200 feet	10
100 to 200 feet	5
less than 100 feet	(1)

ADDITIONAL: _____

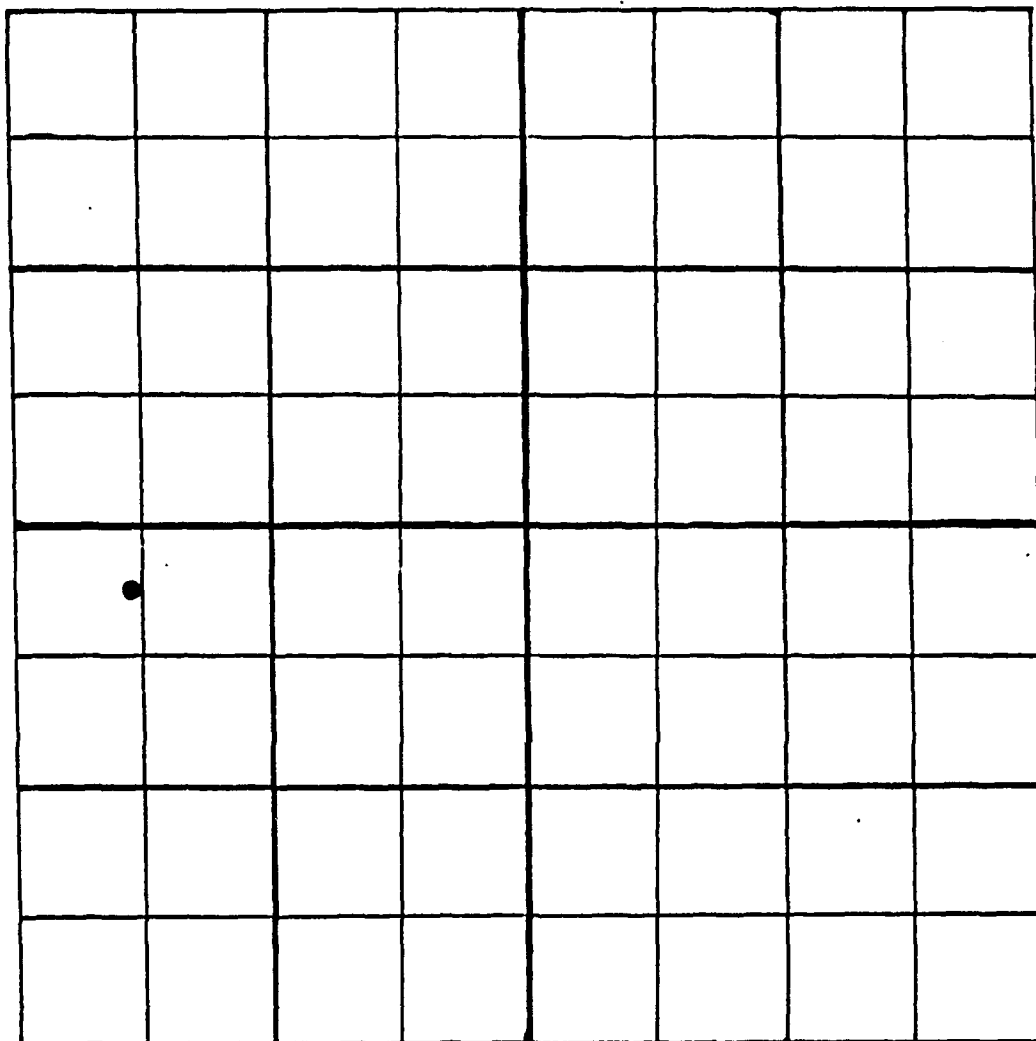
Requested	25
Physically hazardous	10

TOTAL (search if $\geq$ 25 points, 75 maximum): 26

Not Searched For Due To Access Constraints

Well Location Diagram:

Well # 36038
Sec. # 36



NW 1/4 of NW 1/4 of SW 1/4 of Sec. 36 T 2 S R 67 W



First Level Field Search Priority List.

WELL NUMBER: 36039

LOCATION: Twnshp 2 S Rng 67 W Section 36
Qtr NW Qtr SW

In plume	(15)
Downgradient of plume	10
Outside plume, not downgradient	5

AQUIFER: _____

Arapahoe or Arapahoe and any other aquifer	15
Denver and alluvium	10
Denver	(5)
Alluvium	3

AGE: _____

pre-1942	10
post-1942	(5)

DEPTH: _____ feet

Greater than 200 feet	10
100 to 200 feet	5
less than 100 feet	(1)

ADDITIONAL: _____

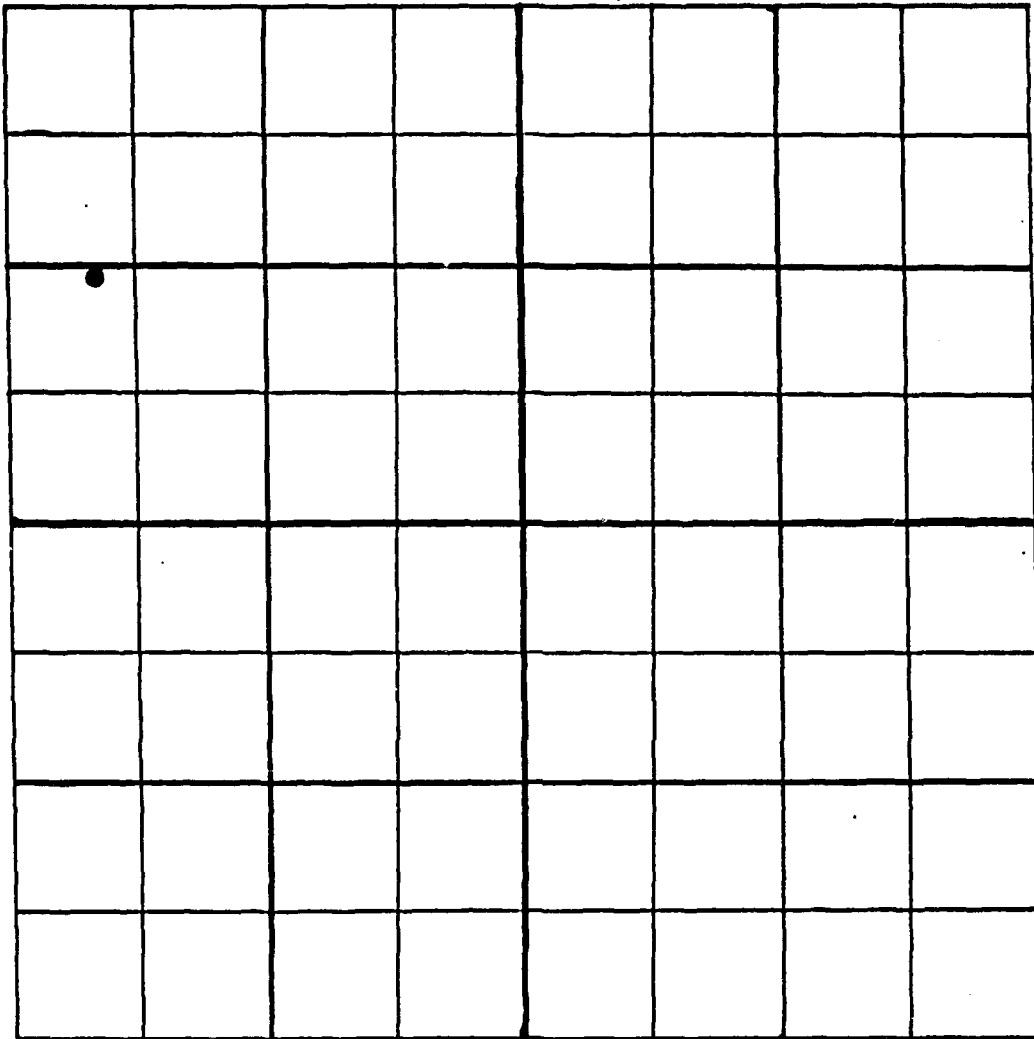
Requested	25
Physically hazardous	10

TOTAL (search if ≥ 25 points, 75 maximum): 26

NOT SEARCHED FOR DUE TO ACCESS CONSTRAINTS

Well Location Diagram:

Well # 36039
Sec. # 36



NW1/4 of 1/4 of SW1/4 of Sec. 36 T2S R67W



First Level Field Search Priority List.

WELL NUMBER: 36040

LOCATION: Twnshp 2 S Rng 67 W Section 36
Qtr NW Qtr SW

In plume	(15)
Downgradient of plume	10
Outside plume, not downgradient	5

AQUIFER: _____

Arapahoe or Arapahoe and any other aquifer	15
Denver and alluvium	10
Denver	5
Alluvium	(3)

AGE: _____

pre-1942	10
post-1942	(5)

DEPTH: _____ feet

Greater than 200 feet	10
100 to 200 feet	5
less than 100 feet	(1)

ADDITIONAL: _____

Requested	25
Physically hazardous	10

TOTAL (search if $\geq$ 25 points, 75 maximum): 24

First Level Field Search Priority List.

WELL NUMBER: 36041

LOCATION: Township 2 S Rng 67 W Section 36
Qtr NW Qtr SW

In plume	(15)
Downgradient of plume	10
Outside plume, not downgradient	5

AQUIFER: _____

Arapahoe or Arapahoe and any other aquifer	15
Denver and alluvium	10
Denver	5
Alluvium	(3)

AGE: _____

pre-1942	10
post-1942	(5)

DEPTH: _____ feet

Greater than 200 feet	10
100 to 200 feet	5
less than 100 feet	(1)

ADDITIONAL: _____

Requested	25
Physically hazardous	10

TOTAL (search if $\geq$ 25 points, 75 maximum): 24

First Level Field Search Priority List.

WELL NUMBER: 36042

LOCATION: Twnshp 2 S Rng 67 W Section 36
Qtr NW Qtr SW

In plume	(15)
Downgradient of plume	10
Outside plume, not downgradient	5

AQUIFER: _____

Arapahoe or Arapahoe and any other aquifer	15
Denver and alluvium	10
Denver	5
Alluvium	(3)

AGE: _____

pre-1942	10
post-1942	(5)

DEPTH: _____ feet

Greater than 200 feet	10
100 to 200 feet	5
less than 100 feet	(1)

ADDITIONAL: _____

Requested	25
Physically hazardous	10

TOTAL (search if $\geq$ 25 points, 75 maximum): 24

First Level Field Search Priority List.

WELL NUMBER: 36041

LOCATION: Twnshp 2 S Rng 67 W Section 36
Qtr SW Qtr SW

In plume	(15)
Downgradient of plume	10
Outside plume, not downgradient	5

AQUIFER: _____

Arapahoe or Arapahoe and any other aquifer	15
Denver and alluvium	10
Denver	(5)
Alluvium	3

AGE: _____

pre-1942	10
post-1942	(5)

DEPTH: _____ feet

Greater than 200 feet	10
100 to 200 feet	5
less than 100 feet	(1)

ADDITIONAL: _____

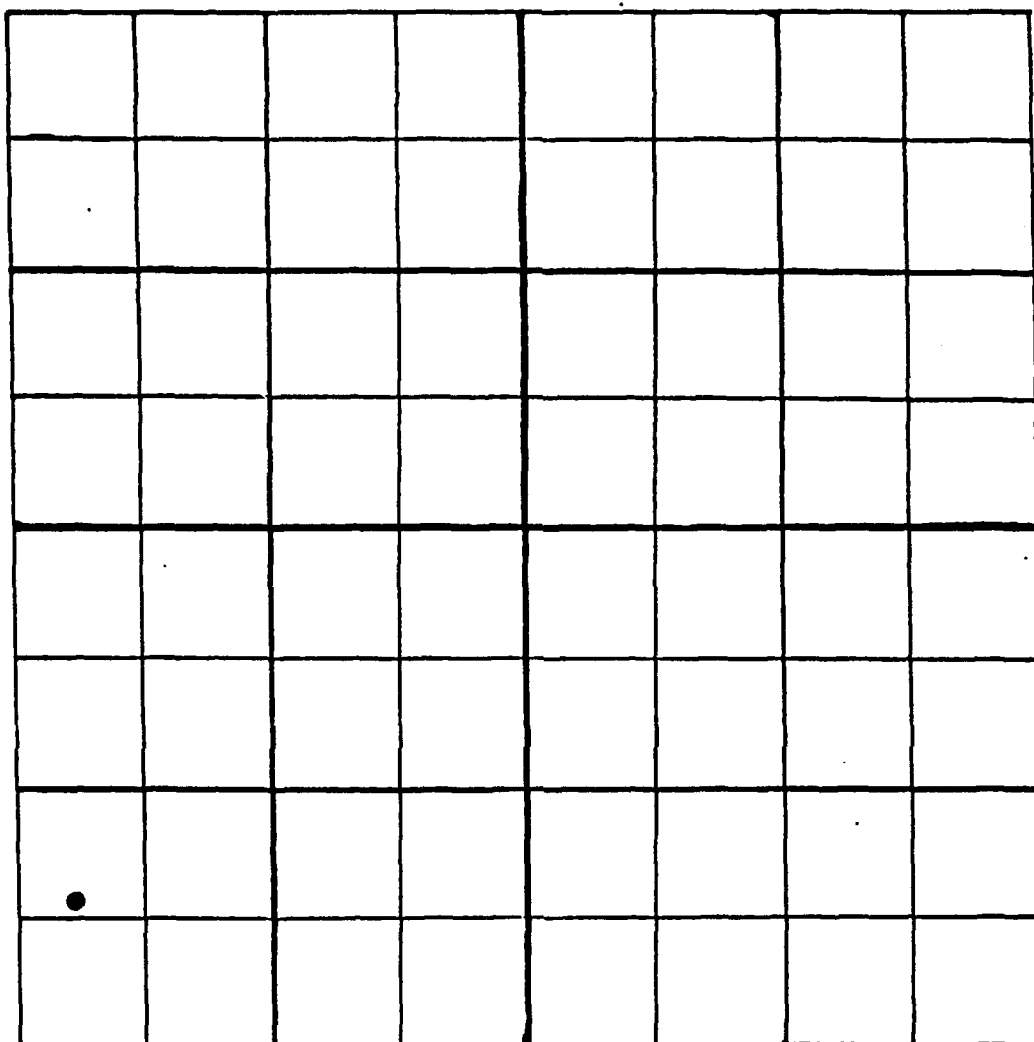
Requested	25
Physically hazardous	10

TOTAL (search if ≥ 25 points, 75 maximum): 26

NOT SEARCHED FOR DUE TO ACCESS CONSTRAINTS

Well Location Diagram:

Well # 36044
Sec. # 36



NW1/4 of SW1/4 of SW1/4 of Sec. 36 T2 S R67 W



First Level Field Search Priority List.

WELL NUMBER: 36045

LOCATION: Twnshp 2 S Rng 67 W Section 36
Qtr SW Qtr SW

In plume	(15)
Downgradient of plume	10
Outside plume, not downgradient	5

AQUIFER: _____

Arapahoe or Arapahoe and any other aquifer	15
Denver and alluvium	10
Denver	(5)
Alluvium	3

AGE: _____

pre-1942	10
post-1942	(5)

DEPTH: _____ feet

Greater than 200 feet	10
100 to 200 feet	5
less than 100 feet	(1)

ADDITIONAL: _____

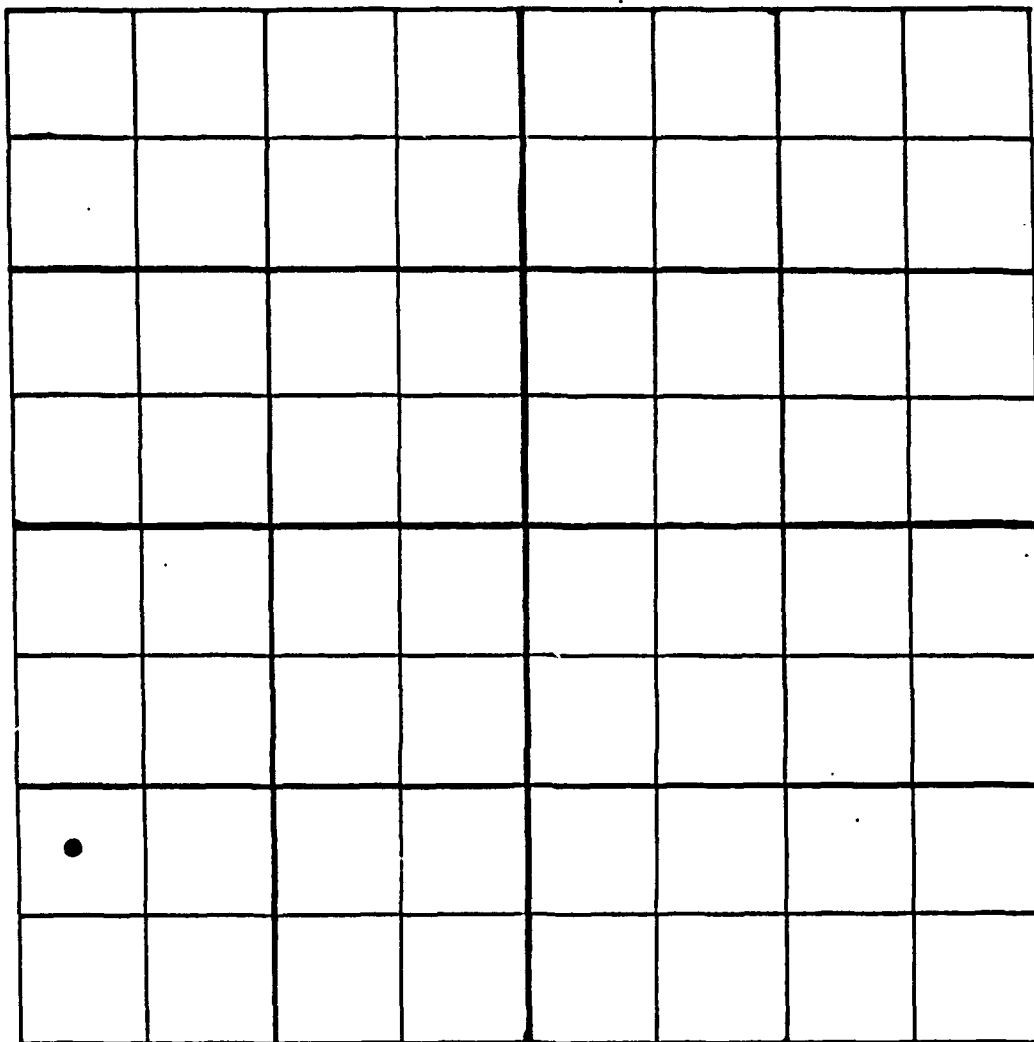
Requested	25
Physically hazardous	10

TOTAL (search if ≥ 25 points, 75 maximum): 26

NOT SEARCHED FOR DUE TO ACCESS CONSTRAINTS

Well Location Diagram:

Well # 36045
Sec. # 36



NW1/4 of SW1/4 of SW1/4 of Sec. 36 T. 2 S R. 67 W



First Level Field Search Priority List.

WELL NUMBER: 36046

LOCATION: Township 2 S Rng 67 W Section 36
Qtr SW Qtr SW

In plume	(15)
Downgradient of plume	10
Outside plume, not downgradient	5

AQUIFER: _____

Arapahoe or Arapahoe and any other aquifer	15
Denver and alluvium	10
Denver	(5)
Alluvium	3

AGE: _____

pre-1942	10
post-1942	(5)

DEPTH: _____ feet

Greater than 200 feet	10
100 to 200 feet	5
less than 100 feet	(1)

ADDITIONAL: _____

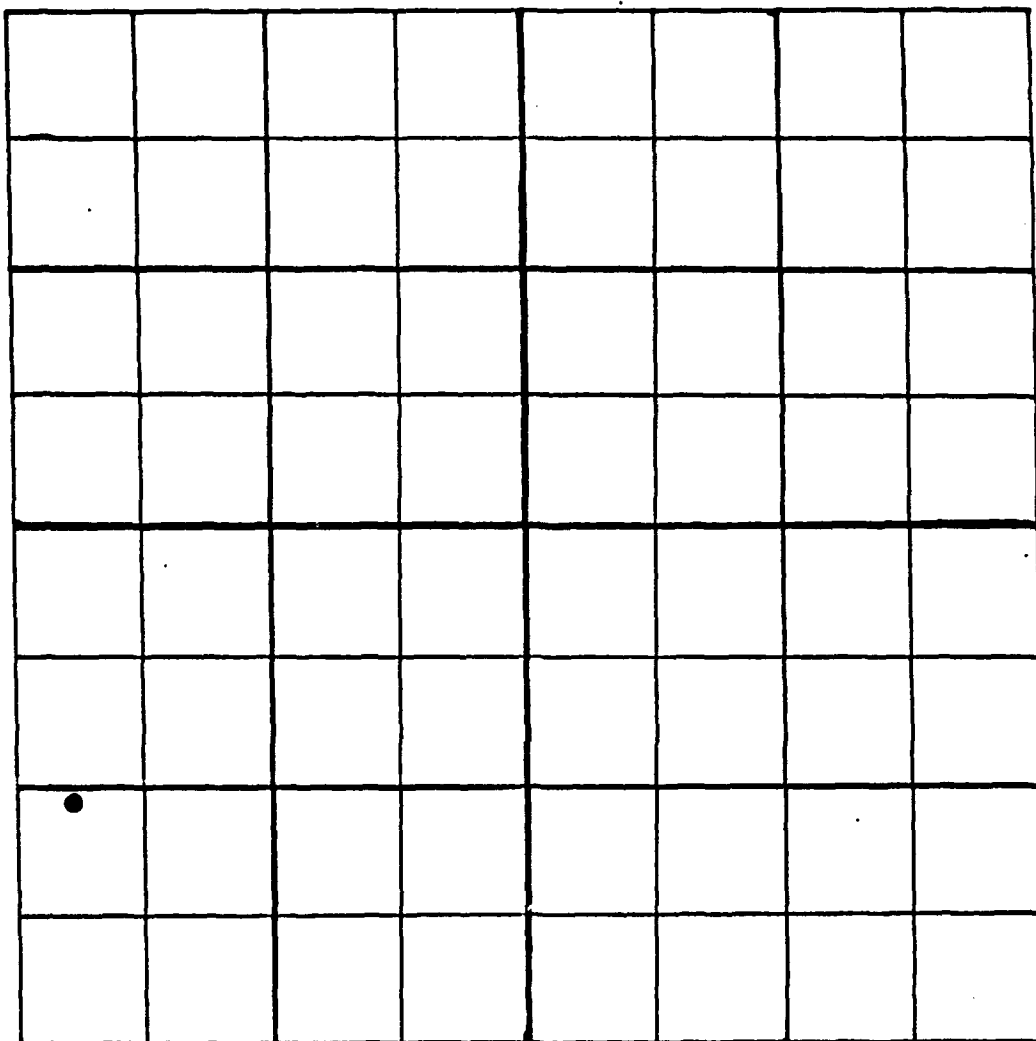
Requested	25
Physically hazardous	10

TOTAL (search if ≥ 25 points, 75 maximum): 26

Not Searched For Due To Access Constraints

Well Location Diagram:

Well # 36046
Sec. # 36



NW 1/4 of SW 1/4 of SW 1/4 of Sec. 36 T 2 S R 67 W



First Level Field Search Priority List.

WELL NUMBER: 36049

LOCATION: Township 2 S Rng 67 W Section 36
Qtr SW Qtr SW

In plume	(15)
Downgradient of plume	10
Outside plume, not downgradient	5

AQUIFER: _____

Arapahoe or Arapahoe and any other aquifer	15
Denver and alluvium	10
Denver	5
Alluvium	(3)

AGE: _____

pre-1942	10
post-1942	(5)

DEPTH: _____ feet

Greater than 200 feet	10
100 to 200 feet	5
less than 100 feet	(1)

ADDITIONAL: _____

Requested	25
Physically hazardous	10

TOTAL (search if $\geq$ 25 points, 75 maximum): 24

First Level Field Search Priority List.

WELL NUMBER: 36053

LOCATION: Twnshp 2 S Rng 67 W Section 36
Qtr SW Qtr SW

In plume	(15)
Downgradient of plume	10
Outside plume, not downgradient	5

AQUIFER: _____

Arapahoe or Arapahoe and any other aquifer	15
Denver and alluvium	10
Denver	5
Alluvium	(3)

AGE: _____

pre-1942	10
post-1942	(5)

DEPTH: _____ feet

Greater than 200 feet	10
100 to 200 feet	5
less than 100 feet	(1)

ADDITIONAL: _____

Requested	25
Physically hazardous	10

TOTAL (search if ≥ 25 points, 75 maximum): 24

First Level Field Search Priority List.

WELL NUMBER: 36058

LOCATION: Twnshp 2 S Rng 67 W Section 36
Qtr SW Qtr SW

In plume	(15)
Downgradient of plume	10
Outside plume, not downgradient	5

AQUIFER: _____

Arapahoe or Arapahoe and any other aquifer	15
Denver and alluvium	10
Denver	5
Alluvium	(3)

AGE: _____

pre-1942	10
post-1942	(5)

DEPTH: _____ feet

Greater than 200 feet	10
100 to 200 feet	5
less than 100 feet	(1)

ADDITIONAL: _____

Requested	25
Physically hazardous	10

TOTAL (search if $\geq$ 25 points, 75 maximum): 24

First Level Field Search Priority List.

WELL NUMBER: 36059

LOCATION: Twnshp 2 S Rng 67 W Section 36
Qtr SW Qtr SW

In plume	(15)
Downgradient of plume	10
Outside plume, not downgradient	5

AQUIFER: _____

Arapahoe or Arapahoe and any other aquifer	15
Denver and alluvium	10
Denver	(5)
Alluvium	3

AGE: _____

pre-1942	10
post-1942	(5)

DEPTH: _____ feet

Greater than 200 feet	10
100 to 200 feet	5
less than 100 feet	(1)

ADDITIONAL: _____

Requested	25
Physically hazardous	10

TOTAL (search if ≥ 25 points, 75 maximum): 24

First Level Field Search Priority List.

WELL NUMBER: 36064

LOCATION: Township 2 S Rng 67 W Section 36
Qtr NW Qtr SE

In plume	(15)
Downgradient of plume	10
Outside plume, not downgradient	5

AQUIFER: _____

Arapahoe or Arapahoe and any other aquifer	15
Denver and alluvium	10
Denver	(5)
Alluvium	3

AGE: _____

pre-1942	10
post-1942	(5)

DEPTH: _____ feet

Greater than 200 feet	10
100 to 200 feet	5
less than 100 feet	(1)

ADDITIONAL: _____

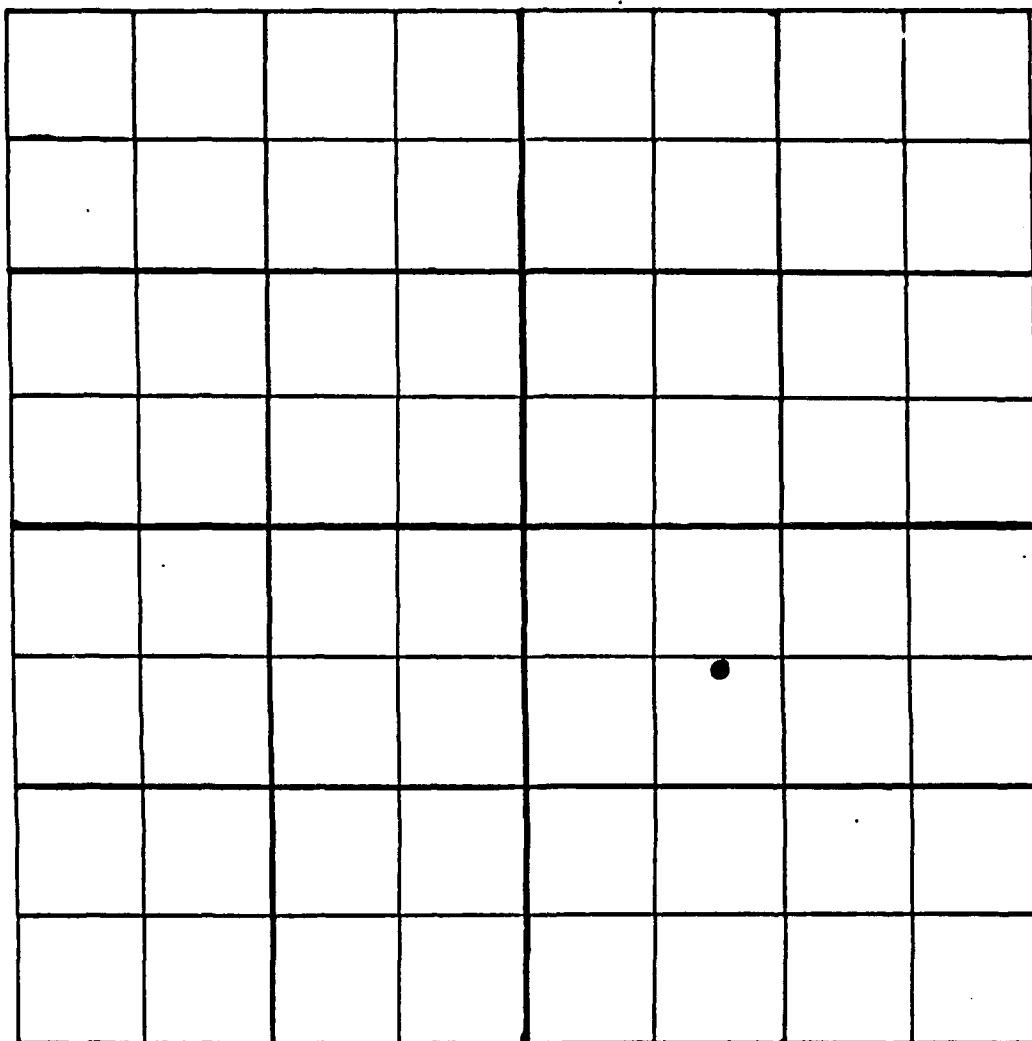
Requested	25
Physically hazardous	10

TOTAL (search if ≥ 25 points, 75 maximum): 26

NOT SEARCHED FOR DUE TO ACCESS CONSTRAINTS

Well Location Diagram:

Well # 36064
Sec. # 36



SE 1/4 of NW 1/4 of SE 1/4 of Sec. 36 T2 S R67 W



First Level Field Search Priority List.

WELL NUMBER: 36070

LOCATION: Twnshp 2 S Rng 67 W Section 36
Qtr NE Qtr SW

In plume	(15)
Downgradient of plume	10
Outside plume, not downgradient	5

AQUIFER: _____

Arapahoe or Arapahoe and any other aquifer	15
Denver and alluvium	10
Denver	5
Alluvium	(3)

AGE: _____

pre-1942	10
post-1942	(5)

DEPTH: _____ feet

Greater than 200 feet	10
100 to 200 feet	5
less than 100 feet	(1)

ADDITIONAL: _____

Requested	25
Physically hazardous	10

TOTAL (search if $\geq$ 25 points, 75 maximum): 24

First Level Field Search Priority List.

WELL NUMBER: 36071

LOCATION: Twnshp 2 S Rng 67 W Section 36
Qtr NE Qtr SW

In plume	(15)
Downgradient of plume	10
Outside plume, not downgradient	5

AQUIFER: _____

Arapahoe or Arapahoe and any other aquifer	15
Denver and alluvium	10
Denver	(5)
Alluvium	3

AGE: _____

pre-1942	10
post-1942	(5)

DEPTH: _____ feet

Greater than 200 feet	10
100 to 200 feet	5
less than 100 feet	(1)

ADDITIONAL: _____

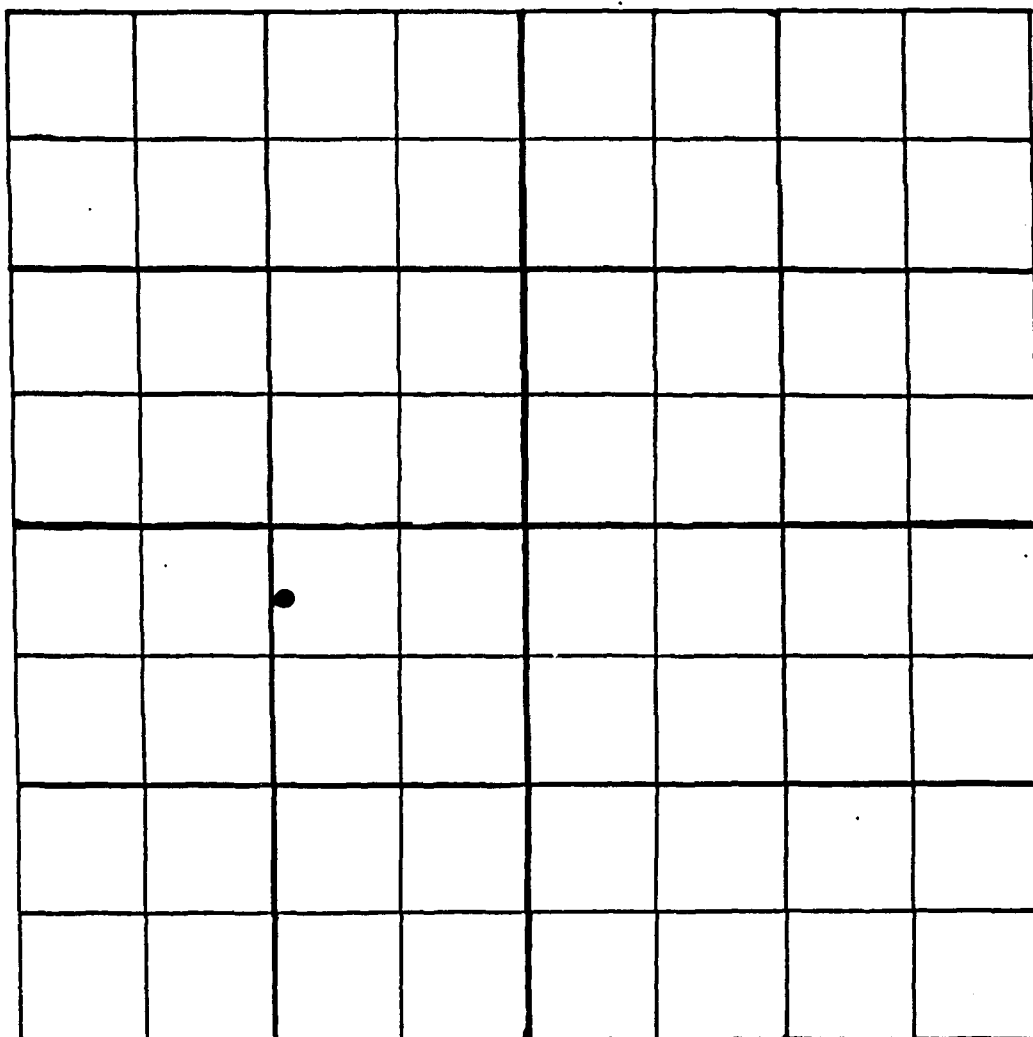
Requested	25
Physically hazardous	10

TOTAL (search if ≥ 25 points, 75 maximum): 26

Well Not Located

Well Location Diagram:

Well # 36071
Sec. # 36



NW 1/4 of NE 1/4 of SW 1/4 of Sec. 36 T2S R6W



First Level Field Search Priority List.

WELL NUMBER: 36082

LOCATION: Twnshp 2 S Rng 67 W Section 36
Qtr SE Qtr NW

In plume	(15)
Downgradient of plume	10
Outside plume, not downgradient	5

AQUIFER: _____

Arapahoe or Arapahoe and any other aquifer	15
Denver and alluvium	10
Denver	5
Alluvium	(3)

AGE: _____

pre-1942	10
post-1942	(5)

DEPTH: _____ feet

Greater than 200 feet	10
100 to 200 feet	5
less than 100 feet	(1)

ADDITIONAL: _____

Requested	25
Physically hazardous	10

TOTAL (search if $\geq$ 25 points, 75 maximum): 24

First Level Field Search Priority List.

WELL NUMBER: 36101

LOCATION: Twnshp 2 S Rng 67 W Section 36
Qtr SW Qtr NW

In plume	(15)
Downgradient of plume	10
Outside plume, not downgradient	5

AQUIFER: _____

Arapahoe or Arapahoe and any other aquifer	15
Denver and alluvium	10
Denver	5
Alluvium	(3)

AGE: _____

pre-1942	10
post-1942	(5)

DEPTH: _____ feet

Greater than 200 feet	10
100 to 200 feet	5
less than 100 feet	(1)

ADDITIONAL: _____

Requested	25
Physically hazardous	10

TOTAL (search if ≥ 25 points, 75 maximum): 24

First Level Field Search Priority List.

WELL NUMBER: 36102

LOCATION: Twnshp 2 S Rng 67 W Section 36
Qtr SW Qtr NW

In plume	(15)
Downgradient of plume	10
Outside plume, not downgradient	5

AQUIFER: _____

Arapahoe or Arapahoe and any other aquifer	15
Denver and alluvium	10
Denver	5
Alluvium	(3)

AGE: _____

pre-1942	10
post-1942	(5)

DEPTH: _____ feet

Greater than 200 feet	10
100 to 200 feet	5
less than 100 feet	(1)

ADDITIONAL: _____

Requested	25
Physically hazardous	10

TOTAL (search if $\geq$ 25 points, 75 maximum): 24

First Level Field Search Priority List.

WELL NUMBER: 36106

LOCATION: Twnshp 2 S Rng 67 W Section 36
Qtr NW Qtr NW

In plume	(15)
Downgradient of plume	10
Outside plume, not downgradient	5

AQUIFER: _____

Arapahoe or Arapahoe and any other aquifer	15
Denver and alluvium	10
Denver	5
Alluvium	(3)

AGE: _____

pre-1942	10
post-1942	(5)

DEPTH: _____ feet

Greater than 200 feet	10
100 to 200 feet	5
less than 100 feet	(1)

ADDITIONAL: _____

Requested	25
Physically hazardous	10

TOTAL (search if $\geq$ 25 points, 75 maximum): 24

First Level Field Search Priority List.

WELL NUMBER: 36A01

LOCATION: Twnshp 2 S Rng 67 W Section 36
Qtr SW Qtr SE

In plume	(15)
Downgradient of plume	10
Outside plume, not downgradient	5

AQUIFER: ?

Arapahoe or Arapahoe and any other aquifer	(15)
Denver and alluvium	10
Denver	5
Alluvium	3

AGE: _____

pre-1942	(10)
post-1942	5

DEPTH: ? feet

Greater than 200 feet	(10)
100 to 200 feet	5
less than 100 feet	1

ADDITIONAL: _____

Requested	25
Physically hazardous	10

TOTAL (search if ≥ 25 points, 75 maximum): 50

Well Not Located

Second Level Field Search Priority List.

WELL NUMBER: 36A01

LOCATION: Twnshp 2 S Rng 67 W Section 36
Qtr SW Qtr SE

FIRST LEVEL FIELD SEARCH PRIORITY: _____

Greater than 40 15
25 to 40 8

AQUIFER*: _____

Denver or Arapahoe 5
Alluvium 0

ASSOCIATED CONTAMINANTS: _____

More than one plume 15
One plume 10
Downgradient of plume 5
Outside plume, not downgradient 2

APPLICABILITY OF ALTERNATE METHOD: EXAMINE AT ANOMALY

Suitable methodology 10
Potential problems 1

ASSOCIATED WELLS: _____

Several to be located 10
Solitary well 4

ADDITIONAL: _____
Requested 25

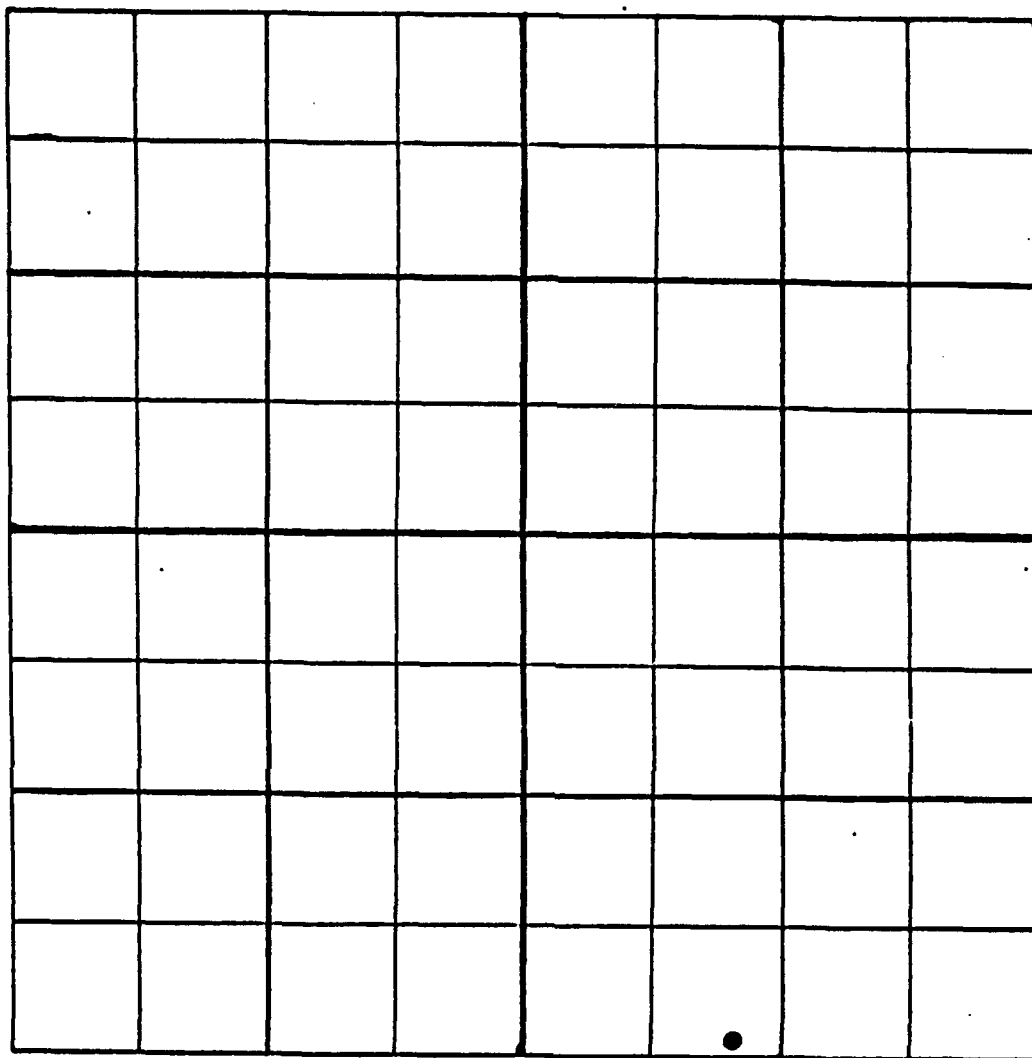
TOTAL (search if ≥ 30 points, 75 maximum): 42

* Inferred from depth if unknown

Well Not Located

Well Location Diagram:

Well # 36A01
Sec. # 36



SE 1/4 of SW 1/4 of SE 1/4 of Sec. 36 T. 2 S R. 67 W



← 750' →

First Level Field Search Priority List.

WELL NUMBER: 36A02

LOCATION: Twnshp 2 S Rng 67 W Section 36
Qtr NE Qtr NE

In plume	(15)
Downgradient of plume	10
Outside plume, not downgradient	5

AQUIFER: ?

Arapahoe or Arapahoe and any other aquifer	(15)
Denver and alluvium	10
Denver	5
Alluvium	3

AGE: _____

pre-1942	(10)
post-1942	5

DEPTH: ? feet

Greater than 200 feet	(10)
100 to 200 feet	5
less than 100 feet	1

ADDITIONAL: _____

Requested	25
Physically hazardous	10

TOTAL (search if $\geq$ 25 points, 75 maximum): 50

Well Not Located

Second Level Field Search Priority List.

WELL NUMBER: 36402

LOCATION: Twnshp 2 S Rng 67 W Section 36
Qtr NE Qtr NE

FIRST LEVEL FIELD SEARCH PRIORITY: _____

Greater than 40
25 to 40

15
8

AQUIFER*: _____

Denver or Arapahoe
Alluvium

5
0

ASSOCIATED CONTAMINANTS: _____

More than one plume
One plume
Downgradient of plume
Outside plume, not downgradient

15
10
5
2

APPLICABILITY OF ALTERNATE METHOD: _____

Suitable methodology
Potential problems

10
1

ASSOCIATED WELLS: _____

Several to be located
Solitary well

10
4

ADDITIONAL: _____

Requested

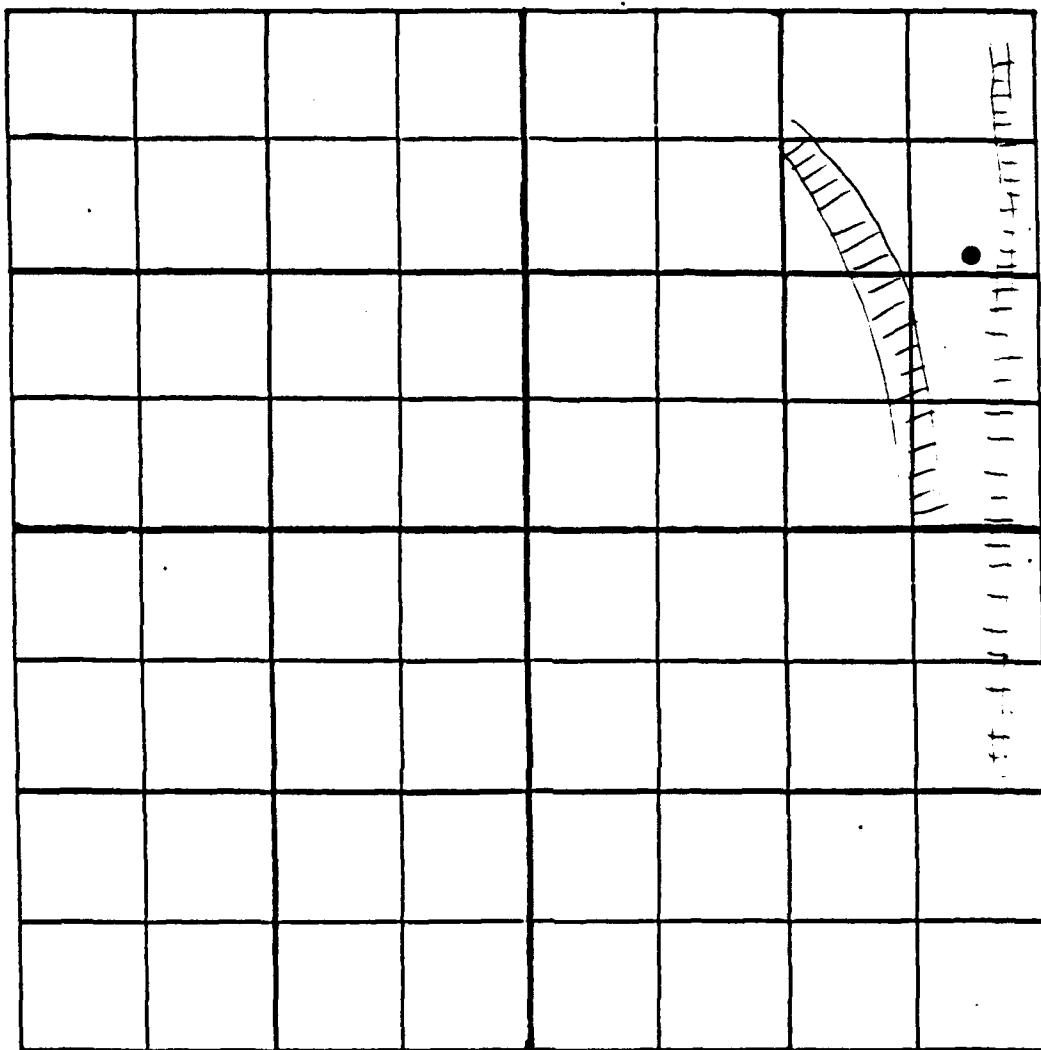
25

TOTAL (search if ≥ 30 points, 75 maximum): 28

* Inferred from depth if unknown

Well Location Diagram:

Well # 36A02
Sec. # 36



SE 1/4 of NE 1/4 of NE 1/4 of Sec. 36 T 2 S R 67 W



APPENDIX H

Surveyed Well Locations

Survey Coordinates for Task 37 Wells

<u>Well Number</u>	<u>Easting Coordinate</u>	<u>Northing Coordinate</u>	<u>Elevation (feet above mean sea level)</u>
02A01	2183025	175669	5232.12
02A03	2179039	177908	5205.94
02A05	2179321	178581	5227.31
03A03	2178147	176379	5212.77
03A04	2178025	176992	5214.59
03A07	2173748	179319	5196.44
03A09	2174144	175355	5218.57
03AGM-1	2174049	175468	5218.95
04A03	2170294	177652	5189.72
04A04	2168407	176794	5193.94
04A06	2167876	177854	5182.93
04A08	2168465	177795	5180.13
04A10	2169523	175502	5198.43
04AGM-1	2168609	175735	5200.23
04AGM-2	2168558	175702	5197.77
09A02	2171218	175111	5209.77
09A03	2170499	175177	5240.02
09A04	2169613	175149	5201.43
09A07	2168864	174563	5198.80
09A08	2170332	170716	5213.17
09A09	2168930	173065	5199.91
09A13	2168779	172263	5209.24
09A14	2167904	173543	5195.90
09A17	2168151	171859	5208.22
09A18	2169770	175194	5200.47
09A20	2168240	173770	5194.00
22A02	2178235	191583	5174.52
23A01	2179666	191921	5194.36
23A02	2179645	191939	5194.90
23A04	2178561	196234	5129.85
23A08	2179623	191959	5194.53
24A02	2188634	193488	5157.27
24A03	2185977	196310	5136.05
24A05	2184850	193821	5165.90
24A06	2183892	193848	5160.35
26A01	2178661	188337	5188.60
26A03	2181183	189907	5206.00
27A05	2177968	186544	5188.48
27A06	2173272	188702	5144.56
30A01	2188970	187291	5198.56
30A03	2189364	186568	5217.62
31A02	2189449	184852	5230.00
31A04	2189249	185426	5222.83
31A08	2191579	180774	5243.60
33A01	2168694	185202	5152.54
33A02	2169182	185378	5147.82

NOTE: - Not measured

<u>Well Number</u>	<u>Easting Coordinate</u>	<u>Northing Coordinate</u>	<u>Elevation (feet above mean sea level)</u>
33A04	2171062	180669	5188.65
33A06	2168805	180900	5178.22
33A08	2167877	184284	5149.31
33A09	2168239	184203	5154.01
33A10	2168340	184130	5152.90
33A11	2168424	184051	5151.58
34A01	2173131	181886	5161.06
35A02	2179606	184937	5214.06
35A03	2183452	185841	5240.15
35A04	2183407	185834	5241.12
22001	2177351	192464	5151.50
22009	2175202	191505	5122.90
22010	2175307	192167	5122.30
22032	2174730	191518	5119.20
22035	2174433	191483	5122.60
22046	-	-	-
22047	-	-	-
22048	-	-	-
23001	2181481	195761	5150.15
23003	2180354	191439	5190.26
23005	2182429	196233	5144.78
23006	2181492	191230	5185.46
23017	2182851	195959	5150.93
23018	2183101	195961	5155.23
23019	2183351	195963	5154.87
23020	2182577	195757	5154.70
23022	2182702	195758	5145.80
23024	2182727	195758	5146.30
23027	2182802	195759	5147.11
23038	2179737	195934	5136.45
23040	2180728	195942	5143.81
23041	2181479	195948	5146.10
23042	2181964	195952	5146.14
23049	2181184	191258	5186.83
23050	2181112	193965	5184.00
23055	2180989	192015	5185.23
23060	2180246	194465	5167.70
23062	2179813	194715	5158.87
23065	2178946	195213	5141.60
23095	2181610	192162	5178.80
23108	2178532	191626	5178.10
23112	2182633	195978	5145.30
23113	2182633	195878	5147.90
23114	2182978	195980	5146.10
23115	2182978	195880	5146.40
23116	2183323	195981	5146.40
23117	2183323	195881	5155.20
23127	2178438	191262	5179.00
23132	2180685	191258	5188.35

NOTE: - Not measured

<u>Well Number</u>	<u>Easting Coordinate</u>	<u>Northing Coordinate</u>	<u>Elevation (feet above mean sea level)</u>
23147	2181126	195592	5154.23
23151	2181124	194991	5173.12
23152	2182399	195678	5147.80
23153	2182629	195678	5145.40
23154	2182859	195679	5147.90
23155	2183089	195680	5155.10
23156	2183319	195681	5156.00
23162	2182949	196199	5152.97
23163	2181027	195956	5146.01
23164	2181027	195948	5145.99
23165	2182027	195959	5145.67
23167	2181879	195967	5145.57
23168	2181879	195967	5145.57
23169	2181879	195967	5145.87
23170	2182641	195967	5148.28
23171	2183425	195900	5148.50
23172	2182311	195890	5146.91
23173	2182048	195896	-
23174	2181522	195687	-
23175	2181378	195377	5163.04
23301	2182409	195684	5148.24
23302	2182646	195683	5145.58
23303	2182877	195683	5148.81
23304	2183107	195685	5155.28
23305	2183335	195688	5156.56
23330	2181132	195249	5165.26
23331	2181410	195359	5159.73
23332	2181619	195443	5156.35
23333	2181836	195528	5153.53
23334	2182048	195613	5151.80
23335	2182220	195678	5148.75
23432	2181025	195754	5149.90
23433	2181211	195829	5149.97
23434	2181397	195902	5149.97
23435	2181583	195977	5146.61
23436	2181768	196051	5144.41
23437	2181954	196125	5145.10
23438	2182147	196177	5144.47
24004	2186539	196219	5141.15
24005	2185211	195977	5139.86
24007	2183907	194726	5159.23
24008	2183909	194226	5161.79
24009	2183913	193226	5170.36
24010	2183917	192227	5176.61
24012	2183601	195965	5155.00
24024	2183978	195764	5152.50
24028	2185412	193232	5171.00
24029	2186074	195987	5140.60
24030	2186573	195993	5141.72

NOTE: - Not measured

<u>Well Number</u>	<u>Easting Coordinate</u>	<u>Northing Coordinate</u>	<u>Elevation (feet above mean sea level)</u>
24031	2187073	195999	5149.07
24031	2181753	188324	5204.90
24032	2187573	196005	5178.22
24033	2186079	195987	5140.30
24034	2186084	195987	5140.50
24035	2186124	195988	5140.40
24036	2186174	195988	5139.30
24037	2186074	195982	5140.40
24038	2186074	195977	5140.40
24039	2186074	195937	5140.40
24040	2186075	195887	5140.50
24043	2184910	193632	5168.50
24045	2184900	193632	5168.20
24046	2184860	193633	5168.50
24048	2184410	193648	5168.50
24050	2184912	193636	5168.40
24051	2184914	193640	5168.30
24052	2184932	193676	5168.00
24054	2185131	194080	5163.50
24055	2185353	194528	5156.80
24059	2185824	195984	5141.80
24060	2185351	195980	5140.10
24061	2185600	195982	5141.10
24064	2186411	193239	5164.94
24065	2186911	193242	5170.00
24066	2186106	196410	5140.54
24067	2185857	196409	5139.02
24068	2185157	195974	5140.59
24084	2187286	191246	5181.42
24088	2188283	192283	5171.67
24091	2184248	192446	5176.17
24096	2188038	194290	5155.04
24116	2185844	195168	5146.71
24119	2183549	195682	5157.00
24120	2188073	196011	5184.92
24131	2184956	195967	5142.35
24132	2184956	195967	5142.35
24133	2184214	195974	5147.24
24134	2184214	195974	5147.24
24137	2184302	195417	5157.80
24138	2183733	195933	5150.64
24139	2183733	195933	5150.64
24140	2185455	195931	5141.13
24141	2185455	195931	5141.13
24142	2185942	195927	5137.79
24143	2185963	195927	5137.79
24144	2186460	195863	5138.54
24145	2186958	195990	5145.28
24146	2186958	195990	5145.28

NOTE: - Not measured

<u>Well Number</u>	<u>Easting Coordinate</u>	<u>Northing Coordinate</u>	<u>Elevation (feet above mean sea level)</u>
24147	2187459	195998	5174.92
24148	2186629	195710	5144.41
24153	2184226	195698	5153.43
24154	2186451	195924	5141.50
24155	2186411	195911	5141.00
24156	2186530	195899	5141.50
24157	2186542	195934	5141.30
24165	2186047	196374	5138.60
24170	2185021	195984	5141.20
24183	2186900	195902	5141.90
24188	2187251	195602	5146.40
24306	2183554	195689	5157.52
24307	2183720	195683	5156.61
24308	2183889	195689	5155.80
24309	2184046	195690	5154.17
24310	2184203	195691	5152.96
24311	2184358	195691	5152.50
24312	2184515	195692	5153.64
24313	2184674	195693	5152.00
24314	2184837	195693	5148.82
24315	2184990	195694	5147.63
24316	2185145	195695	5145.52
24317	2185308	195695	5144.76
24318	2185483	195696	5144.85
24319	2185662	195697	5144.56
24320	2185853	195678	5143.65
24321	2186014	195699	5141.92
24322	2186193	195699	5141.65
24323	2186384	195700	5141.73
24324	2186584	195701	5143.41
24325	2186709	195702	5143.87
24326	2186868	195702	5147.74
24327	2187039	195703	5148.10
24328	2187152	195703	5148.41
24329	2187235	195704	5149.73
24413	2183782	196185	5151.41
24414	2183981	196165	5145.92
24415	2184181	196165	5145.51
24416	2184382	196167	5145.29
24417	2184583	196168	5144.93
24418	2184783	196168	5141.41
24419	2184983	196171	5141.07
24420	2185181	196170	5141.07
24421	2185383	196171	5141.52
24422	2185582	196171	5141.50
24423	2185782	196176	5141.41
24424	2185991	196176	5142.91
24425	2186190	196174	5144.36
24426	2186432	196175	5144.95

NOTE: - Not measured

<u>Well Number</u>	<u>Easting Coordinate</u>	<u>Northing Coordinate</u>	<u>Elevation (feet above mean sea level)</u>
24427	2186605	196175	5145.91
24428	2186791	196177	5146.70
24429	2186990	196177	5151.77
24430	2187150	196178	5159.59
24431	2187285	196179	5168.66
25001	2188806	186612	5207.46
25002	2184067	185922	5263.02
25005	2183685	190245	5208.25
25027	2184018	189442	5223.00
25028	2184011	189448	5222.90
25033	2185620	188860	5267.30
26006	2179699	186322	5184.00
26007	2181611	189714	5201.09
26010	2181396	188196	5204.40
26012	2181771	188460	5203.90
26015	2180225	190670	5192.48
26016	2179831	190712	5188.81
26017	2179502	190488	5190.26
26020	2179303	189800	5190.50
26032	2181726	188535	5202.87
26033	2181679	188932	5202.78
26034	2181534	189300	5202.21
26035	2181371	189662	5201.48
26036	2181287	189842	5202.81
26037	2181172	190004	5202.12
26038	2181042	190171	5199.40
26039	2180924	190328	5195.20
26042	2180845	190623	5185.68
26049	2179094	188782	5175.69
26098	2183059	186116	5230.06
26137	2179058	190172	5185.52
27001	2173573	190790	5128.00
27008	2173329	189912	5129.30
27014	2178077	190522	5171.80
27016	2178002	190027	5163.90
27020	2177853	189039	5172.60
27021	2177815	188792	5164.40
27022	2177778	188545	5161.00
27023	2177741	188300	5166.10
27024	2177580	188109	5160.10
27026	2177258	187726	5155.40
27035	2175810	186005	5176.70
27036	2175650	185815	5171.10
27067	2175250	190404	5130.80
28010	2171517	187844	5133.60
28016	2170528	186717	5142.30
28017	2170363	186529	5140.30
28019	2170034	186153	5144.00
28021	2169704	185777	5141.00

NOTE: - Not measured

<u>Well Number</u>	<u>Easting Coordinate</u>	<u>Northing Coordinate</u>	<u>Elevation (feet above mean sea level)</u>
30001	2188973	188250	5189.59
30002	2189405	190969	5179.40
31001	2191206	184625	5220.19
31004	2189452	180968	5248.90
33003	2169540	185589	5152.20
33004	2169375	185401	5147.60
33005	2169210	185214	4147.80
33006	2169045	185026	5153.30
33007	2168881	184838	5152.90
33008	2168716	184650	5152.90
33009	2168551	184462	5153.30
33010	2168386	184274	5154.20
33011	2168366	184025	5150.70
33012	2168345	183776	5163.10
33013	2168324	183527	5164.90
34001	2177422	185095	5186.76
35001	2183002	184146	5236.63
35004	2179622	185284	5201.70
35010	2181817	185699	5210.70
35019	2181896	185826	5209.60
35024	2183527	182723	5240.75
35042	2178561	184632	5200.16
35043	2179706	184166	5213.87
35044	2182026	184984	5223.59
35045	2182396	184499	5239.61
35046	2182380	185371	5215.77
35049	2179706	184166	5213.87
36002	2183877	185117	5236.98
36012	2184380	184620	5239.48
36037	2183893	182617	5238.93
36038	2183891	182867	5244.12
36039	2183889	183117	5240.85
36040	2184644	182372	5238.35
36041	2184642	182622	5236.75
36042	2184641	182872	5233.11
36044	2183900	181368	5252.72
36045	2183899	181618	5242.46
36046	2183897	181868	5240.50
36049	2183902	180873	5261.52
36053	2184655	180623	5263.42
36058	2184736	180968	5255.10
36059	2184736	180968	5255.10
36064	2187249	182494	5246.15
36070	2184911	182848	5232.49
36071	2184911	182848	5232.49
36082	2185453	183739	5233.69
36101	2184638	183372	5235.85
36102	2183885	183867	5235.09
36106	2183686	184558	5236.55

NOTE: - Not measured

APPENDIX I

Well Closure Logs

Task 37
09/23/88

TASK 37 - WELL CLOSURE LOG

Well # 02A01 Reported Depth: 30 (ft)
Observed Casing at Surface: 3/16 (in) thick, 3 3/4 (in) diameter
Location: SE 1/4 of the SE 1/4 of the sec
T 3S, R, 67W, 6th pm
State Planar Coordinates: N 175,669, E 2,183,025
Drilling/Well Closure Contractor: Layne Western Co., Inc.
Closure Dates: 08-21-88 to 08-23-88

WELL CLOSURE PROCEDURES/INFORMATION

Clean-Out

Equipment Used: Hollow Stem Auger

Depth of Clean-out Achieved: 77 ft.

Reason for discontinuing Clean-out at depth listed above:

- ☐ Refusal/probable blockage
☒ At probable original TD of well based on drilling information
☐ Both of the above
☐ Other, (explain):

Geophysical Logs Run yes ☒ no

Contractor: N/A

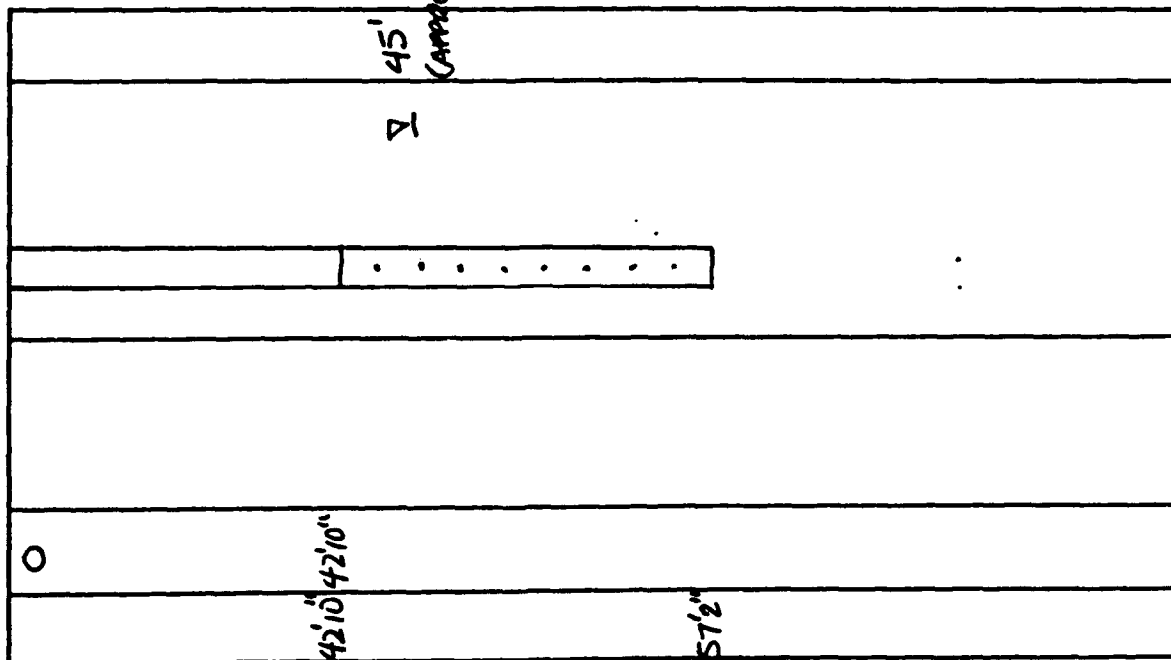
Types of Logs Run: N/A

Logging interval: N/A ft to N/A ft

Approximate Construction Details of Well based on information obtained during clean-out and from geophysical logs.

Casing Type

To From ☐ Plain ☐ Perforated ☐ Uncertain Schematic Diagram Water Loc.



Well Development (performed only at wells to be sampled prior to closure)

Contractor: N/A Date: N/A Method(s): N/A

Casing Removed from Well

Plain Perforated

X	X	Size (in)	3 3/8	& kind	steel	from	0	to	42.8 ft
		Size (in)	3 3/8	& kind	steel	from	42.8	to	57.2 ft
		Size (in)		& kind		from		to	ft
		Size (in)		& kind		from		to	ft

Amount & Location of Casing Left in Well

Amount 0 ft Interval: from N/A to N/A ft

Plain - Perforated - Uncertain (circle one) Size: N/A

Method of Parting this Casing from that Removed from Well: N/A

Perforations Imparted to Casing Left in Well

Method(s): N/A
Interval: from N/A to N/A ft
Interval: from to ft

Plugging

Bentonite (5%) /
Material: Cement Grout Interval: from 0 to 77 ft

Remarks

Screen is steel well casing with holes in it.

TASK 37 - WELL CLOSURE LOG

Well # 02A03 Reported Depth: 600 (ft)
Observed Casing at Surface: - (in) thick, 3.5 (in) diameter
Location: SW 1/4 of the NW 1/4 of the sec
T 3S, R, 67W, 6th pm
State Planar Coordinates: N 177,908, E 2,179,039
Drilling/Well Closure Contractor: Layne Western Co., Inc.
Closure Dates: 07-14-88 to 07-21-88

WELL CLOSURE PROCEDURES/INFORMATION

Clean-Out

Equipment Used: Mud Rotary

Depth of Clean-out Achieved: 355 ft.

Reason for discontinuing Clean-out at depth listed above:

- ☐ Refusal/probable blockage
☒ At probable original TD of well based on drilling information
☐ Both of the above
☐ Other, (explain):

Geophysical Logs Run ☒ yes ☐ no

Contractor: Colog, Inc.

Types of Logs Run: Casing Collar Locator, Caliper

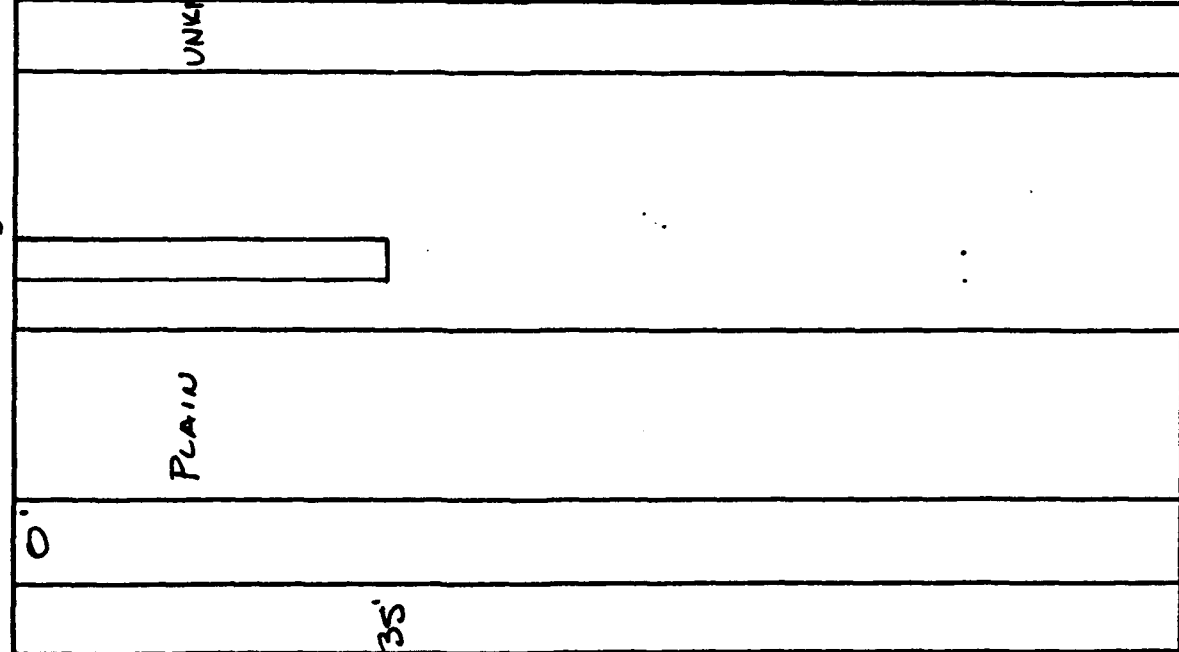
Logging interval: 0 ft to 342 ft

Approximate Construction Details of Well based on information obtained during clean-out and from geophysical logs.

Casing Type

To From 0' 35' PLAIN UNKNOWN

Schematic Diagram Water Loc.



Well Development (performed only at wells to be sampled prior to closure)

Contractor: N/A

Date: N/A Method(s): N/A

Casing Removed from Well

Per-
Plain forated

X	Size <u>4</u> & kind <u>steel</u> from <u>0</u> to <u>35</u> ft
	(in) Size & kind from to ft
	(in) Size & kind from to ft
	(in) Size & kind from to ft
	(in) Size & kind from to ft

Amount & Location of Casing Left in Well

Amount N/A ft Interval: from to ft

Plain - Perforated - Uncertain (circle one) Size: N/A

Method of Parting this Casing from that Removed from Well: N/A

Perforations Imparted to Casing Left in Well

Method(s): N/A

Interval: from N/A to ft

Interval: from to ft

Plugging Bentonite (5%)

Material: Cement Grout Interval: from 0 to 342 ft

Remarks

As determined from geophysical logs, actual total depth of the well was 285'. From 35' to total depth, the well was open borehole.

Well 02A03

Prepared by: R. Sipe

TASK 37 - WELL CLOSURE LOG

Well # 03A04 Reported Depth: 50 (ft)
Observed Casing at Surface: _____ (in) thick, 6 3/8 (in) diameter
Location: NE 1/4 of the SE 1/4 of the sec
T 3S, R, 67W, 6th pm
State Planar Coordinates: N 176,992, E 2,178,025
Drilling/Well Closure Contractor: Layne Western Co., Inc.
Closure Dates: 08-24-88 to 08-26-88

WELL CLOSURE PROCEDURES/INFORMATION

Clean-Out

Equipment Used: Hollow Stem Auger

Depth of Clean-out Achieved: 50 ft.

Reason for discontinuing Clean-out at depth listed above:

- ☐ Refusal/probable blockage
☒ At probable original TD of well based on drilling information
☐ Both of the above
☐ Other, (explain): _____

Geophysical Logs Run _____ yes ☒ no

Contractor: N/A

Types of Logs Run: N/A

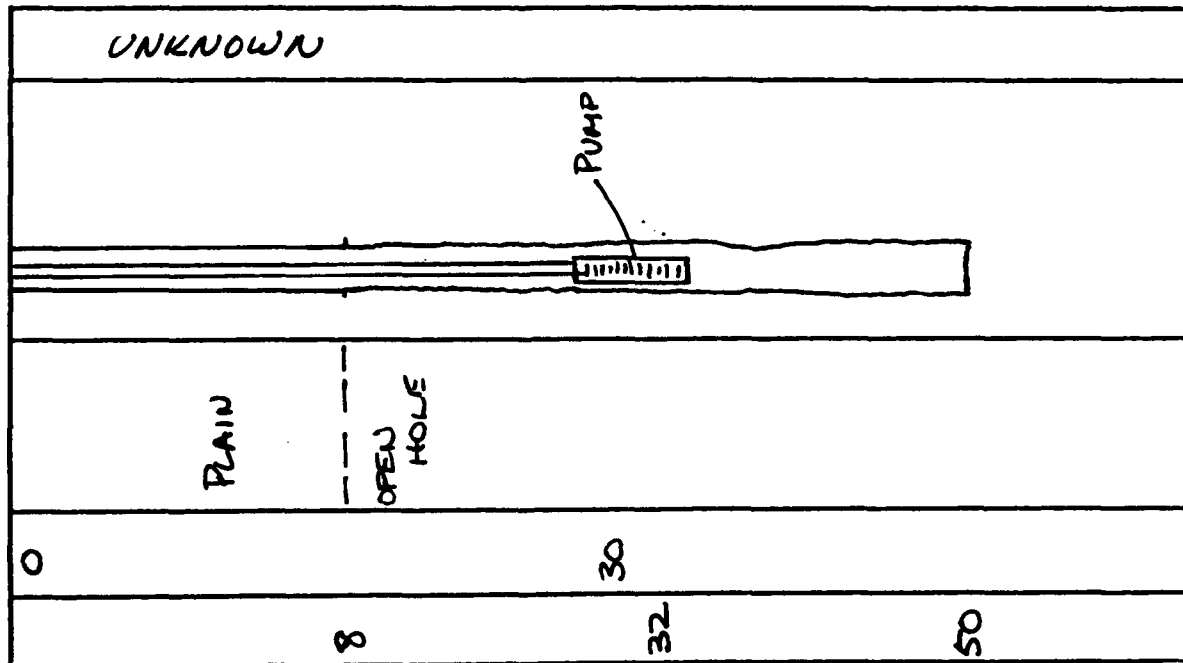
Logging interval: N/A ft to N/A ft

Approximate Construction Details of Well based on information obtained during clean-out and from geophysical logs.

Casing Type

To From 0 8 32 50

Plain Perforated Uncertain Schematic Diagram Water Loc.



Well Development (performed only at wells to be sampled prior to closure)

Contractor: N/A

Date: N/A Method(s): N/A

Casing Removed from Well

Perforated

Size 6 3/8 & kind Galv. from 0 to 8 ft
(in) -- & kind Galv. from 8 to 32 ft
(in) -- & kind from to ft
(in) -- & kind from to ft
(in) -- & kind from to ft
(in) -- & kind from to ft

Amount & Location of Casing Left in Well

Amount 24 ft Interval: from 8 to 32 ft

Plain - Perforated - Uncertain (circle one) Size: unknown

Method of Parting this Casing from that Removed from Well: Casing parted while attempting to remove.

Perforations Imparted to Casing Left in Well

Method(s): Drilled out casing with Augers

Interval: from 8 to 32 ft

Interval: from to ft

Plugging Bentonite (5%)

Material: Cement Grout Interval: from to ft

Remarks

Removed 2 in. pump pipe and 2 ft. pump from well.

Well 03A04

Prepared by: B. Bush

TASK 37 - WELL CLOSURE LOG

Well # 04AGM-1 Reported Depth: -- (ft)
Observed Casing at Surface: -- (in) thick, -- (in) diameter
Location: SW 1/4 of the SW 1/4 of the sec
T #S, R, 67W, 6th pm
State Planar Coordinates: N 175,735, E 2,168,609
Drilling/Well Closure Contractor: Layne Western Co., Inc.
Closure Dates: 07-29-88 to 08-05-88

WELL CLOSURE PROCEDURES/INFORMATION

Clean-Out

Equipment Used: Hollow Stem Auger

Depth of Clean-out Achieved: 85 ft.

Reason for discontinuing Clean-out at depth listed above:

- ☐ Refusal/probable blockage
☒ At probable original TD of well based on drilling information
☐ Both of the above
☐ Other, (explain):

Geophysical Logs Run yes ☒ no

Contractor: N/A

Types of Logs Run: N/A

Logging interval: N/A ft to N/A ft

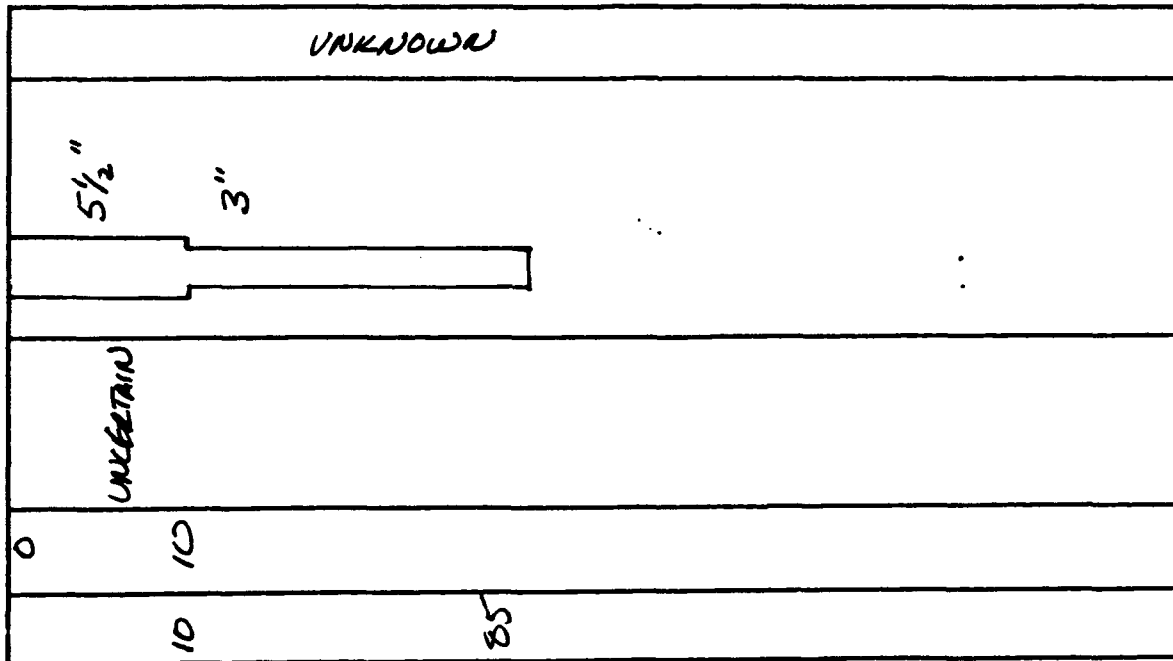
Approximate Construction Details of Well based on information obtained during clean-out and from geophysical logs.

Casing Type
 Plain
 Perforated
 Uncertain

To From

Schematic Diagram

Water Loc.



Well Development (performed only at wells to be sampled prior to closure)

Contractor: N/A

Date: N/A Method(s): N/A

Casing Removed from Well

Plain	Perforated	Size (in)	& kind	Galv.	from	to	ft
		5.5			0	10	ft
		3			10	80	ft

Amount & Location of Casing Left in Well

Amount: 5 ft Interval: from 80 to 85 ft

Plain - Perforated Uncertain (circle one) Size: 3 in.

Method of Parting this Casing from that Removed from Well: Casing separated upon pulling.

Perforations Imparted to Casing Left in Well

Method(s): none

Interval: from to ft

Interval: from to ft

Plugging Bentonite (5%) /

Material: Cement Grout Interval: from 0 to 85 ft

Remarks

TASK 37 - WELL CLOSURE LOG

Well # 04A08 Reported Depth: 60 (ft)
Observed Casing at Surface: 3/16 (in) thick, 12 (in) diameter
Location: NW 1/4 of the SW 1/4 of the sec
T 3S, R, 67W, 6th pm
State Planar Coordinates: N 177,795, E 2,168,465
Drilling/Well Closure Contractor: Layne Western Co., Inc.
Closure Dates: 08-15-88 to 08-18-88

WELL CLOSURE PROCEDURES/INFORMATION

Clean-Out

Equipment Used: Pulling/Rotary Rig, Fishing Tool

Depth of Clean-out Achieved: 60 ft.

Reason for discontinuing Clean-out at depth listed above:

- ☐ Refusal/probable blockage
☒ At probable original TD of well based on drilling information
☐ Both of the above
☐ Other, (explain):

Geophysical Logs Run yes ☒ no

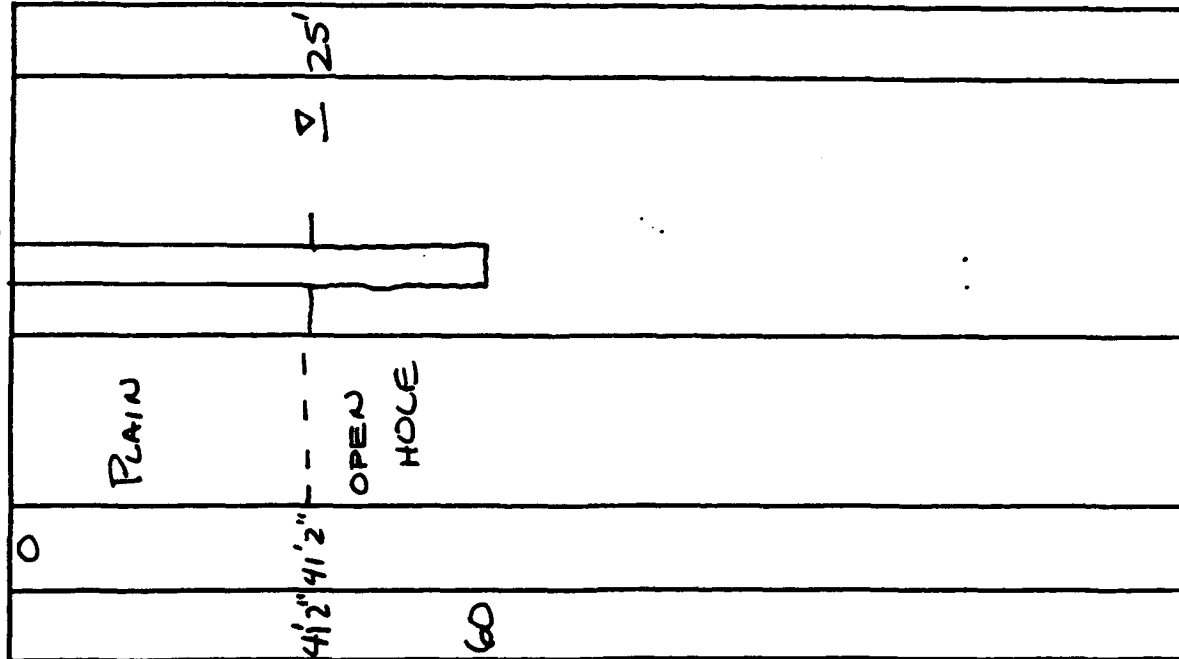
Contractor: N/A

Types of Logs Run: N/A

Logging interval: N/A ft to N/A ft

Approximate Construction Details of Well based on information obtained during clean-out and from geophysical logs.

Casing Type
 To From Perforated Schematic Diagram Water Loc.
 Plain
 Perforated
 Uncertain



Well Development (performed only at wells to be sampled prior to closure)

Contractor: N/A
 Date: N/A Method(s): N/A

Casing Removed from Well

Plain	Perforated	Size (in)	& kind	steel	from	0	to	41.2 ft

Amount & Location of Casing Left in Well

Amount 0 ft Interval: from N/A to N/A ft

Plain - Perforated - Uncertain (circle one) Size: N/A

Method of Parting this Casing from that Removed from Well: N/A

Perforations Imparted to Casing Left in Well

Method(s): N/A
 Interval: from N/A to N/A ft
 Interval: from to ft

Plugging Bentonite (5%)/

Material: Cement Grout Interval: from 0 to 60 ft

Remarks

Water at 25 ft. The well casing was comprised of water heaters bolted together; many rivet holes at top and bottom.

TASK 37 - WELL CLOSURE LOG

Well # 04A10 Reported Depth: 72 (ft)
Observed Casing at Surface: (in) thick, 5.25 (in) diameter
Location: SW 1/4 of the SW 1/4 of the sec
 T 3S, R, 67W, 6th pm
State Planar Coordinates: N 175,502, E 2,169,523
Drilling/Well Closure Contractor: Layne Western Co., Inc.
Closure Dates: 07-27-88 to 07-28-88

WELL CLOSURE PROCEDURES/INFORMATION

Clean-Out

Equipment Used:

Depth of Clean-out Achieved: 72 ft.

Reason for discontinuing Clean-out at depth listed above:

- ☐ Refusal/probable blockage
☒ At probable original TD of well based on drilling information
☐ Both of the above
☐ Other, (explain):

Geophysical Logs Run yes X no

Contractor: N/A.

Types of Logs Run: N/A

Logging interval: N/A ft to N/A ft

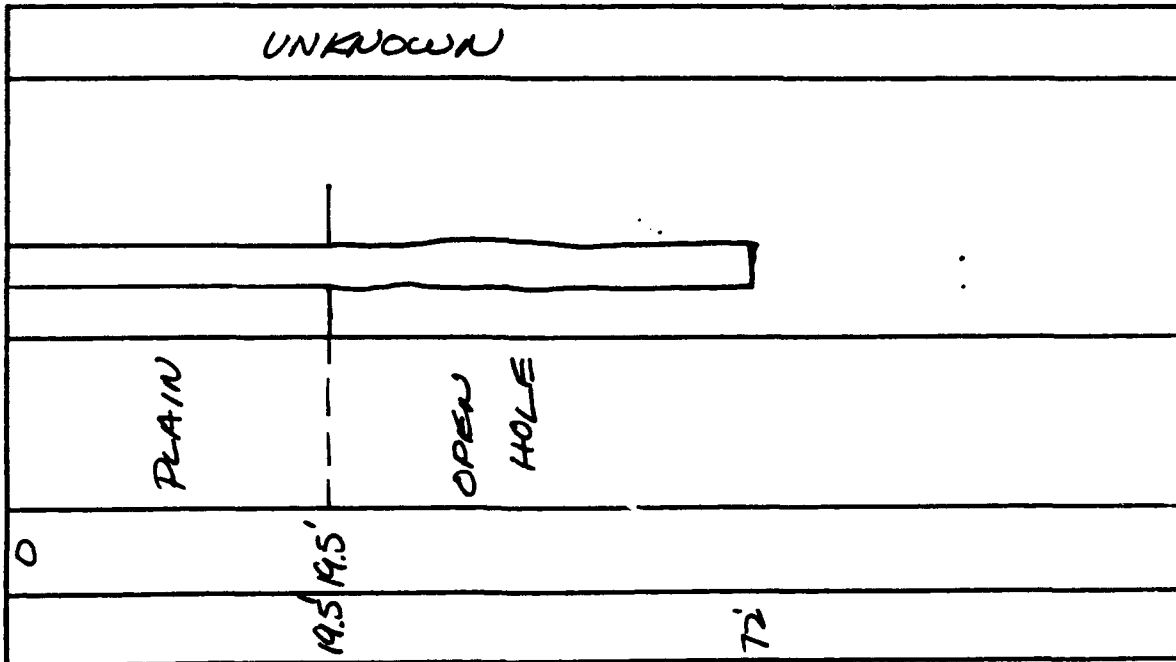
Approximate Construction Details of Well based on information obtained during clean-out and from geophysical logs.

Casing Type

To From 0 19.5' 72'

Plain Perforated Uncertain

Schematic Diagram Water Loc.



Well Development (performed only at wells to be sampled prior to closure)

Contractor: N/A

Date: N/A Method(s): N/A

Casing Removed from Well

Perforated

X	Size (in)	5.25	& kind	Galv.	from 0 to 19.5 ft
	Size (in)		& kind		from to ft
	Size (in)		& kind		from to ft
	Size (in)		& kind		from to ft
	Size (in)		& kind		from to ft

Amount & Location of Casing Left in Well

Amount 0 ft Interval: from N/A to ft

Plain - Perforated - Uncertain (circle one) Size: N/A

Method of Parting this Casing from that Removed from Well: N/A

Perforations Imparted to Casing Left in Well

Method(s): N/A

Interval: from N/A to N/A ft

Interval: from to ft

Plugging Bentonite (5%)/

Material: Cement Grout Interval: from 0 to 72 ft

Remarks

This well casing was thin galvanized steel. Drilled to recorded total depth of well (72 ft). No casing encountered after 19.5 ft.

Well 04A10

Prepared by: B. Bush

TASK 37 - WELL CLOSURE LOG

Well # 09A04 Reported Depth: 75 (ft)
Observed Casing at Surface: 1/16 (in) thick, 5 (in) diameter
Location: NE 1/4 of the NW 1/4 of the sec
T 3S, R, 67W, 6th pm
State Planar Coordinates: N 175,149, E 2,169,613
Drilling/Well Closure Contractor: Layne Western Co., Inc.
Closure Dates: 07-11-88 to 07-13-88

WELL CLOSURE PROCEDURES/INFORMATION

Clean-Out

Equipment Used: Hollow Stem Auger

Depth of Clean-out Achieved: 75 ft.

Reason for discontinuing Clean-out at depth listed above:

- ☐ Refusal/probable blockage
☒ At probable original TD of well based on drilling information
☐ Both of the above
☐ Other, (explain):

Geophysical Logs Run yes ☒ no

Contractor: N/A.

Types of Logs Run: N/A

Logging interval: N/A ft to N/A ft

Approximate Construction Details of Well based on information obtained during clean-out and from geophysical logs.

Casing Type

To From Plain Perforated Uncertain Schematic Diagram Water Loc.

0	PLAIN					
11						
13	PERF					
	OPEN					
	HOLE					
75						

UNKNOWN

Well Development (performed only at wells to be sampled prior to closure)

Contractor: N/A

Date: N/A Method(s): N/A

Casing Removed from Well

Per-
Plain forated

X	X	Size (in)	5	& kind	Galv.	from 0	to 11	ft
		Size (in)	5	& kind	Galv.	from 11	to 13	ft
		Size (in)		& kind		from	to	ft
		Size (in)		& kind		from	to	ft
		Size (in)		& kind		from	to	ft

Amount & Location of Casing Left in Well

Amount 0 ft Interval: from N/A to N/A ft

Plain - Perforated - Uncertain (circle one) Size: N/A

Method of Parting this Casing from that Removed from Well: N/A

Perforations Imparted to Casing Left in Well

Method(s): N/A

Interval: from to ft

Interval: from to ft

Plugging Bentonite (5%)/

Material: Cement Grout Interval: from 0 to 74 ft

Remarks

Removed 13 feet of casing continued drilling to reported depth of the well (75 ft.). No more casing was recovered.

Well 09A04

Prepared by: R. Sipe

TASK 37 - WELL CLOSURE LOG

Well # 09A07 Reported Depth: 77 (ft)
Observed Casing at Surface: 1/4 (in) thick, 4 1/8 (in) diameter
Location: NW 1/4 of the NW 1/4 of the sec
T 3S, R, 67W, 6th pm
State Planar Coordinates: N 174,563, E 2,168,864
Drilling/Well Closure Contractor: Layne Western Co., Inc.
Closure Dates: 08-16-88 to 08-18-88

WELL CLOSURE PROCEDURES/INFORMATION

Clean-Out

Equipment Used: Hollow Stem Auger

Depth of Clean-out Achieved: 77 ft.

Reason for discontinuing Clean-out at depth listed above:

- ☐ Refusal/probable blockage
☒ At probable original TD of well based on drilling information
☐ Both of the above
☐ Other, (explain):

Geophysical Logs Run yes ☒ no

Contractor: N/A

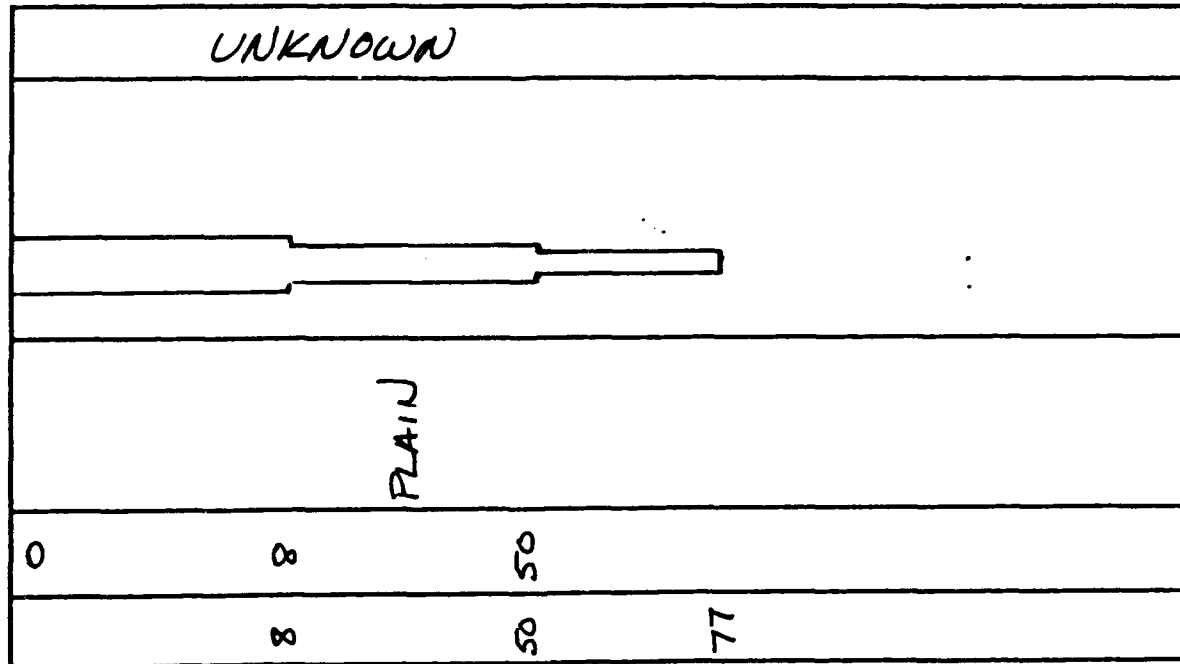
Types of Logs Run: N/A

Logging interval: N/A ft to N/A ft

Approximate Construction Details of Well based on information obtained during clean-out and from geophysical logs.

Casing Type

To From Perforated Uncertain Schematic Diagram Water Loc.



Well Development (performed only at wells to be sampled prior to closure)

Contractor: N/A

Date: N/A Method(s): N/A

Casing Removed from Well

Perforated

X	Size (in)	5	& kind	Galv.	from	0	to	1	ft
	Size (in)	4 7/8	& kind	Galv.	from	1	to	8	ft
	Size (in)	4 1/4	& kind	Galv.	from	8	to	50	ft
	Size (in)	3 1/2	& kind	Galv.	from	50	to	77	ft

Amount & Location of Casing Left in Well

Amount APPROX. 70 ft Interval: from 8 to 77 ft

Plain - Perforated - Uncertain (circle one) Size: 3-4 in.

Method of Parting this Casing from that Removed from Well:

Casing broke

Perforations Imparted to Casing Left in Well

Method(s): This casing was drilled out using Augers

Interval: from 8 to 77 ft

Interval: from to ft

Plugging Bentonite (5%)/

Material: Cement Grout Interval: from 0 to 77 ft

Remarks

Well casing left in the hole was drilled out using Augers.

Well 09A07

Prepared by: B. Bush

TASK 37 - WELL CLOSURE LOG

Well # 09A08 Reported Depth: 44 (ft)
Observed Casing at Surface: (Brick) thick, 32 (in) diameter
Location: SE 1/4 of the SW 1/4 of the sec
T 3S, R, 67W, 6th pm
State Planar Coordinates: N 170,716, E 2,170,332
Drilling/Well Closure Contractor: Layne Western Co., Inc.
Closure Dates: 08-10-88 to 08-15-88

WELL CLOSURE PROCEDURES/INFORMATION

Clean-Out

Equipment Used: Fishing tools

Depth of Clean-out Achieved: 44 ft.

Reason for discontinuing Clean-out at depth listed above:

- ☐ Refusal/probable blockage
☒ At probable original TD of well based on drilling information
☐ Both of the above
☐ Other, (explain):

Geophysical Logs Run yes ☒ no

Contractor: N/A

Types of Logs Run: N/A

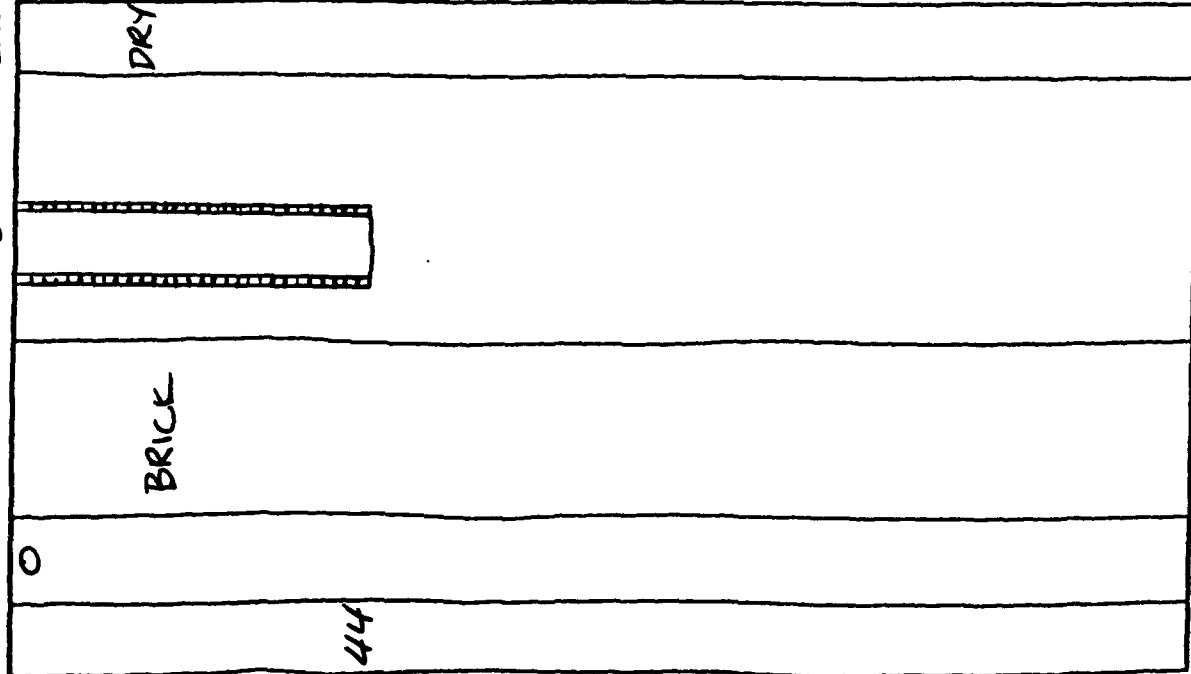
Logging interval: N/A ft to N/A ft

Approximate Construction Details of Well based on information obtained during clean-out and from geophysical logs.

Casing Type

To From 0 44

Perforated Schematic Diagram Water Loc.



Well Development (performed only at wells to be sampled prior to closure)

Contractor: N/A

Date: N/A Method(s): N/A

Casing Removed from Well

Plain Perforated

X	Size 32 & kind Brick from 0 to 44 ft
	Size & kind from to ft
	Size & kind from to ft
	Size & kind from to ft

Amount & Location of Casing Left in Well

Amount 34 ft Interval: from 10 to 34 ft

Plain - Perforated - Uncertain (circle one) Size: 32 in.

Method of Parting this Casing from that Removed from Well:

Perforations Imparted to Casing Left in Well

Method(s): none

Interval: from to ft

Interval: from to ft

Plugging

Material: Concrete Interval: from 0 to 10 ft

Remarks

Brick lined, hand dug well. Filled with pea gravel from 10 to 44 feet.

Well 09A08

Prepared by: B. Bush

TASK 37 - WELL CLOSURE LOG

Well # 09A13 Reported Depth: -- (ft)
Observed Casing at Surface: 1/16 (in) thick, 4.75 (in) diameter
Location: NW 1/4 of the SW 1/4 of the sec
T 3S, R, 67W, 6th pm
State Planar Coordinates: N 172,263, E 2,168,779
Drilling/Well Closure Contractor: Layne Western Co., Inc.
Closure Dates: 08-04-88 to 08-12-88

WELL CLOSURE PROCEDURES/INFORMATION

Clean-Out

Equipment Used: Hollow Stem Auger, Tricone bit, Milling Tool

Depth of Clean-out Achieved: 0 ft.

Reason for discontinuing Clean-out at depth listed above:

- ☐ Refusal/probable blockage
☐ At probable original TD of well based on drilling information
☒ Both of the above
☐ Other, (explain):

Geophysical Logs Run yes ☒ no

Contractor: N/A

Types of Logs Run: N/A

Logging interval: N/A ft to N/A ft

Approximate Construction Details of Well based on information obtained during clean-out and from geophysical logs.

Casing Type
 Plain
 Perforated
 Uncertain

Schematic Diagram

Water Loc.

To	From	Plain	Perforated	Uncertain	Schematic Diagram	Water Loc.
0	46.5	PLAIN				UNKNOWN
60	62.5	PERF				

Well Development (performed only at wells to be sampled prior to closure)

Contractor: N/A
 Date: N/A Method(s): N/A

Casing Removed from Well

Plain	Perforated	Size (in)	& kind	steel	from	0	to	60	ft
X	X	3	& kind	steel	from	46.5	to	62.5	ft
		Size (in)	& kind		from		to		ft
		Size (in)	& kind		from		to		ft
		Size (in)	& kind		from		to		ft

Amount & Location of Casing Left in Well

Amount: 0 ft Interval: from N/A to N/A ft

Plain - Perforated - Uncertain (circle one) Size: N/A

Method of Parting this Casing from that Removed from Well: N/A

Perforations Imparted to Casing Left in Well

Method(s): N/A
 Interval: from N/A to N/A ft
 Interval: from to ft

Plugging Bentonite (5%)/

Material: Cement Grout Interval: from 0 to 62.5 ft

Remarks

All of the casing was removed from the well. The bottom of the screen was bent over as a cap.

Well 09A13

Prepared by: B. Bush

TASK 37 - WELL CLOSURE LOG

Well # 09A17 Reported Depth: 61 (ft)
Observed Casing at Surface: 3/16 (in) thick, 6 3/8 (in) diameter
Location: NW 1/4 of the SW 1/4 of the sec
T 3S, R, 67W, 6th pm
State Planar Coordinates: N 171,859, E 2,168,151
Drilling/Well Closure Contractor: Layne Western Co., Inc.
Closure Dates: 08-29-88 to 09-02-88

WELL CLOSURE PROCEDURES/INFORMATION

Clean-Out

Equipment Used: Hollow Stem Auger, Milling Tool

Depth of Clean-out Achieved: 70 ft.

Reason for discontinuing Clean-out at depth listed above:

- ☐ Refusal/probable blockage
☒ At probable original TD of well based on drilling information
☐ Both of the above
☐ Other, (explain):

Geophysical Logs Run yes ☒ no

Contractor: N/A

Types of Logs Run: N/A

Logging interval: N/A ft to N/A ft

Approximate Construction Details of Well based on information obtained during clean-out and from geophysical logs.

Casing Type

To From Plain Perforated Uncertain Schematic Diagram Water Loc.

0	58	70	PLAIN	UNCERTAIN	UNKNOWN	
---	----	----	-------	-----------	---------	--

Well Development (performed only at wells to be sampled prior to closure)

Contractor: N/A

Date: N/A Method(s): N/A

Casing Removed from Well

Plain Perforated

	Size 6 3/8 (in)	& kind Galv.	from 0	to 58	ft
	Size (in)	& kind	from	to	ft
	Size (in)	& kind	from	to	ft
	Size (in)	& kind	from	to	ft

Amount & Location of Casing Left in Well

Amount approx. 12 ft Interval: from 58 to 70 ft

Plain - Perforated Uncertain (circle one) Size: 6 in.

Method of Parting this Casing from that Removed from Well: Casing broke during drilling.

Perforations Imparted to Casing Left in Well

Method(s): Drilled out with Augers

Interval: from 58 to 70 ft

Interval: from to ft

Plugging Bentonite (5%)

Material: Cement Grout Interval: from 0 to 70 ft

Remarks

Well 09A17

Prepared by: B. Bush

TASK 37 - WELL CLOSURE LOG

Well # 09A18 Reported Depth: 73 (ft)
Observed Casing at Surface: 1/16 (in) thick, 6 (in) diameter
Location: NE 1/4 of the NW 1/4 of the sec
T 3S, R, 67W, 6th pm
State Planar Coordinates: N 175,194, E 2,169,770
Drilling/Well Closure Contractor: Layne Western Co., Inc.
Closure Dates: 07-18-88 to 7-21-88

WELL CLOSURE PROCEDURES/INFORMATION

Clean-Out

Equipment Used: Hollow Stem Augers, Drag Bit

Depth of Clean-out Achieved: 75 ft.

Reason for discontinuing Clean-out at depth listed above:

- ☐ Refusal/probable blockage
☐ At probable original TD of well based on drilling information
☒ Both of the above
☐ Other, (explain):

Geophysical Logs Run yes ☒ no

Contractor: N/A.

Types of Logs Run: N/A

Logging interval: N/A ft to N/A ft

Approximate Construction Details of Well based on information obtained during clean-out and from geophysical logs.

Casing Type
 Plain
 Perforated
 Uncertain
 To From Schematic Diagram Water Loc.

See Remarks		
-------------	--	--

Well Development (performed only at wells to be sampled prior to closure)
 Contractor: N/A
 Date: N/A Method(s): N/A

Casing Removed from Well

Plain	Perforated	See Remarks
		Size & kind from to ft
		(in) & kind from to ft
		(in) & kind from to ft
		(in) & kind from to ft
		(in) & kind from to ft
		(in) & kind from to ft

Amount & Location of Casing Left in Well

Amount N/A ft Interval: from to ft
 Plain - Perforated - Uncertain (circle one) Size: N/A
 Method of Parting this Casing from that Removed from Well: N/A

Performations Imparted to Casing Left in Well

Method(s): N/A
 Interval: from N/A to N/A ft
 Interval: from to to ft

Plugging Bentonite (5%) /

Material: Cement Grout Interval: from 0 to 75 ft

Remarks

While overdrilling with Augers, the casing was broken and torn apart. The dimensions and kind of casing could not be discerned.

TASK 37 - WELL CLOSURE LOG

Well # 23062 Reported Depth: 23 (ft)
Observed Casing at Surface: 1/4 (in) thick, 2 (in) diameter
Location: SE 1/4 of the NW 1/4 of the sec
T 2S, R, 67W, 6th pm
State Planar Coordinates: N 194715, E 2179813
Drilling/Well Closure Contractor: Custom Auger Drilling, Inc.
Closure Dates: 08-16-88 to 08-17-88

WELL CLOSURE PROCEDURES/INFORMATION

Clean-Out

Equipment Used: CME 55 Rig, 8 in. Hollow Stem Augers

Depth of Clean-out Achieved: 25 ft.

Reason for discontinuing Clean-out at depth listed above:

- ☐ Refusal/probable blockage
☒ At probable original TD of well based on drilling information
☐ Both of the above
☐ Other, (explain):

Geophysical Logs Run yes ☒ no

Contractor: N/A

Types of Logs Run: N/A

Logging interval: N/A ft to N/A ft

Approximate Construction Details of Well based on information obtained during clean-out and from geophysical logs.

Casing Type

To From Plain Perforated Schematic Diagram Water Loc.

19.5	PLAIN			UNKNOWN
23	PERF.			

Well Development (performed only at wells to be sampled prior to closure)

Contractor: N/A

Date: N/A Method(s): N/A

Casing Removed from Well

Per- forated

X	Size 2 (in) 2	& kind PVC	from 0	to 19.5 ft
X	Size 2 (in) 2	& kind PVC	from 19.5	to 23 ft
	Size (in)	& kind	from	to ft
	Size (in)	& kind	from	to ft

Amount & Location of Casing Left in Well

Amount 0 ft Interval: from N/A to ft

Plain - Perforated - Uncertain (circle one) Size: N/A

Method of Parting this Casing from that Removed from Well: N/A

Perforations Imparted to Casing Left in Well

Method(s): N/A

Interval: from N/A to N/A ft

Interval: from to ft

Plugging Bentonite (5%)/

Material: Cement Grout Interval: from 0 to 25 ft

Remarks

8 sacks of Cement

Well 23062

Prepared by: L. Indergard

TASK 37 - WELL CLOSURE LOG

Well # 23162 Reported Depth: 113 (ft)
Observed Casing at Surface: 1/5 (in) thick, 2 (in) diameter
Location: NE 1/4 of the NE 1/4 of the sec
T 2S, R, 67W, 6th pm
State Planar Coordinates: N 196,199, E 2,182,949
Drilling/Well Closure Contractor: Custom Auger Drilling, Inc.
Closure Dates: 9-14-88 to 09-16-88

WELL CLOSURE PROCEDURES/INFORMATION

Clean-Out

Equipment Used: CME 55 Rig, 12 in. Hollow Stem Augers

Depth of Clean-out Achieved: 115 ft.

Reason for discontinuing Clean-out at depth listed above:

- ☐ Refusal/probable blockage
☒ At probable original TD of well based on drilling information
☐ Both of the above
☐ Other, (explain):

Geophysical Logs Run yes ☒ no

Contractor: N/A

Types of Logs Run: N/A

Logging interval: N/A ft to N/A ft

Approximate Construction Details of Well based on information obtained during clean-out and from geophysical logs.

Casing Type
Plain

To From Perforated Schematic Diagram Water Loc.

20	0	PLAIN	UNKNOWN	
105		PERF.		
110				

Well Development (performed only at wells to be sampled prior to closure)

Contractor: N/A

Date: N/A Method(s): N/A

Casing Removed from Well

Per-
forated

X	Size (in)	8	& kind	PVC	from 0	to 20	ft
X	Size (in)	2	& kind	PVC	from 0	to 105	ft
X	Size (in)	2	& kind	PVC	from 105	to 110	ft
	Size (in)		& kind		from	to	ft

Amount & Location of Casing Left in Well

Amount 0 ft Interval: from N/A to ft

Plain - Perforated - Uncertain (circle one) Size: N/A

Method of Parting this Casing from that Removed from Well: N/A

Perforations Imparted to Casing Left in Well

Method(s): N/A

Interval: from N/A to N/A ft

Interval: from N/A to N/A ft

Plugging Bentonite (5%)/

Material: Cement Grout Interval: from 0 to 115 ft

Remarks

36 Sacks Cement

Well 23162

Prepared by: L. Indergard

TASK 37 - WELL CLOSURE LOG

Well # 23163 Reported Depth: 57 (ft)
Observed Casing at Surface: 1/4 (in) thick, 2 (in) diameter
Location: NE 1/4 of the NE 1/4 of the sec
T 2S, R, 67W, 6th pm
State Planar Coordinates: N 195956, E 2181027
Drilling/Well Closure Contractor: Custom Auger Drilling, Inc.
Closure Dates: 8/16/88 to 8/16/88

WELL CLOSURE PROCEDURES/INFORMATION

Clean-Out

Equipment Used: CME 55 Rig, 8 in. Hollow Stem Augers

Depth of Clean-out Achieved: 58 ft.

Reason for discontinuing Clean-out at depth listed above:

- ☐ Refusal/probable blockage
☒ At probable original TD of well based on drilling information
☐ Both of the above
☐ Other, (explain):

Geophysical Logs Run yes ☒ no

Contractor: N/A

Types of Logs Run: N/A

Logging interval: N/A ft to N/A ft

Approximate Construction Details of Well based on information obtained during clean-out and from geophysical logs.

To From	Casing Type		Schematic Diagram	Water Loc.
	Plain	Perforated		
0	PLAIN			
15				
42				
52				
57				

Well 23163

Well Development (performed only at wells to be sampled prior to closure)

Contractor: N/A

Date: N/A Method(s): N/A

Casing Removed from Well

Plain	Perforated	Size & kind			
		Size	& kind	PVC	ft
X		6		0	15
X		2		0	42
	X	2		42	52
X		2		52	57

Amount & Location of Casing Left in Well

Amount: 0 ft Interval: from N/A to ft

Plain - Perforated - Uncertain (circle one) Size: N/A

Method of Parting this Casing from that Removed from Well: N/A

Perforations Imparted to Casing Left in Well

Method(s): N/A

Interval: from to ft

Interval: from to ft

Plugging Bentonite (5%) /

Material: Cement Grout Interval: from 0 to 58 ft

Remarks

18 sacks of Cement

Recovered PVC was full of bentonite

Prepared by: L. Indergard

TASK 37 - WELL CLOSURE LOG

Well # 23164 Reported Depth: 95 (ft)
Observed Casing at Surface: 1/4 (in) thick, 2 (in) diameter
Location: NW 1/4 of the NE 1/4 of the sec
T 2S, R, 67W, 6th pm
State Planar Coordinates: N 195,948, E 2,181,027
Drilling/Well Closure Contractor: Custom Auger Drilling, Inc.
Closure Dates: 09-07-88 to 09-08-88

WELL CLOSURE PROCEDURES/INFORMATION

Clean-Out

Equipment Used: CME 55 Rig, 3 in. washover pipe

Depth of Clean-out Achieved: 97 ft.

Reason for discontinuing Clean-out at depth listed above:

- ☐ Refusal/probable blockage
☒ At probable original TD of well based on drilling
information
☐ Both of the above
☐ Other, (explain):

Geophysical Logs Run ☐ yes ☒ no

Contractor: N/A

Types of Logs Run: N/A

Logging interval: N/A ft to N/A ft

Approximate Construction Details of Well based on information obtained during clean-out and from geophysical logs.

Casing Type		Schematic Diagram	Water Loc.
To	From		
0	10	PLAIN	UNKNOWN
10	80	PLAIN	
80	90	PERF.	
90	93	PLAIN	

Well Development (performed only at wells to be sampled prior to closure)

Contractor: N/A

Date: N/A Method(s): N/A

Casing Removed from Well

Plain		Per- forated		Size		& kind		PVC		from		to		ft	
X															
X															
		X													
X															

Amount & Location of Casing Left in Well

Amount 0 ft Interval: from N/A to ft

Plain - Perforated - Uncertain (circle one) Size: N/A

Method of Parting this Casing from that Removed from Well: N/A

Perforations Imparted to Casing Left in Well

Method(s): N/A

Interval: from N/A to N/A ft

Interval: from ft to ft

Plugging Bentonite (5%)/

Material: Cement Grout Interval: from 0 to 95 ft

Remarks

20 sacks cement

Well 23164

Prepared by: L. Indergard

TASK 37 - WELL CLOSURE LOG

Well # 23170 Reported Depth: 113 (ft)
Observed Casing at Surface: 0.25(in) thick, 2(in) diameter
Location: NE 1/4 of the NE 1/4 of the sec
T 25, R, 67W, 6th pm
State Planar Coordinates: N 195,867, E 2182,641
Drilling/Well Closure Contractor: Custom Auger Drilling, Inc.
Closure Dates: 9-9-88 to 9-12-88

WELL CLOSURE PROCEDURES/INFORMATION

Clean-Out

Equipment Used: CME 55 with 8in Hollow Stem Augers
Depth of Clean-out Achieved: 115 ft.
Reason for discontinuing Clean-out at depth listed above:
Refusal/probable blockage
X At probable original TD of well based on drilling
information
Both of the above
Other, (explain):

Geophysical Logs Run yes X no

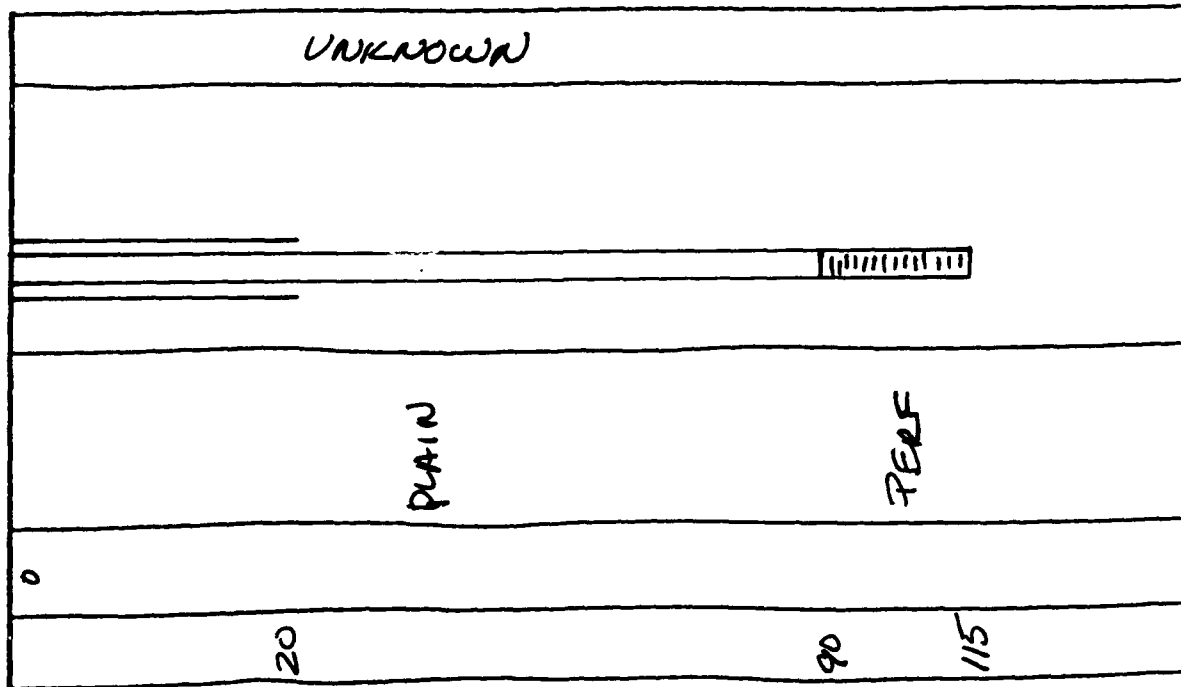
Contractor: NA

Types of Logs Run: NA

Logging interval: NA ft to NA ft

Approximate Construction Details of Well based on information obtained during clean-out and from geophysical logs.

To From Casing Type Schematic Diagram Water Loc.



Well Development (performed only at wells to be sampled prior to closure)

Contractor: N/A

Date: N/A Method(s): N/A

Casing Removed from Well

Plain Per- forated

X	Size 8 & kind PVC	from 0	to 20	ft
X	Size 2 & kind PVC	from 0	to 90	ft
X	Size 2 & kind PVC	from 90	to 115	ft
	Size & kind	from	to	ft

Amount & Location of Casing Left in Well

Amount 0 ft Interval: from NA to NA ft

Plain - Perforated - Uncertain (circle one) Size: NA

Method of Parting this Casing from that Removed from Well: NA

Performations Imparted to Casing Left in Well

Method(s): NA

Interval: from NA to NA ft

Interval: from to ft

Plugging Bentonite (5%) /

Material: Cement Grout Interval: from 0 to 115 ft

Remarks

37 sacks cement

Well 23170

Prepared by: L. Indergard

TASK 37 - WELL CLOSURE LOG

Well # 23A04 Reported Depth: 460 (ft)
Observed Casing at Surface: (in) thick, 6 (in) diameter
Location: NW 1/4 of the NW 1/4 of the sec
T 2S, R, 67W, 6th pm
State Planar Coordinates: N 196,234, E 2,178,561
Drilling/Well Closure Contractor: Layne Western Co., Inc.
Closure Dates: 06-06-88 to 07-06-88

WELL CLOSURE PROCEDURES/INFORMATION

Clean-Out

Equipment Used: Washover pipe, milling tools

Depth of Clean-out Achieved: 277 ft.

Reason for discontinuing Clean-out at depth listed above:

Refusal/probable blockage

X At probable original TD of well based on drilling information

Both of the above

Other, (explain):

Geophysical Logs Run _____ yes _____ X _____ no

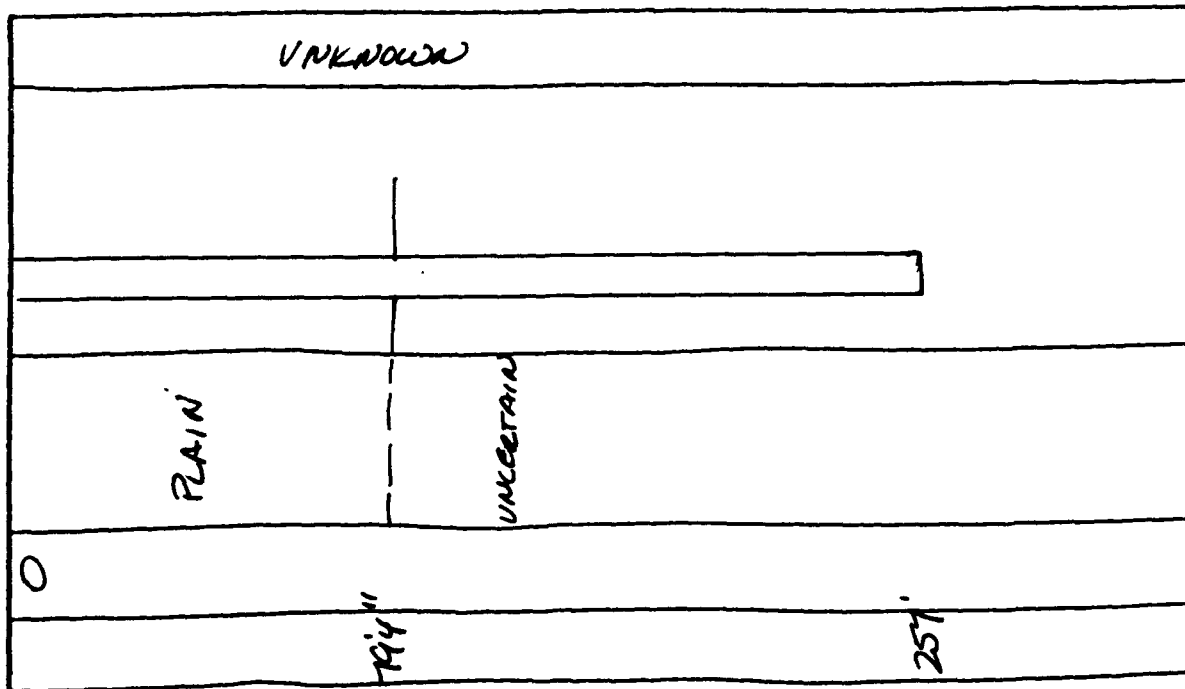
Contractor: _____

Types of Logs Run: N/A

Logging interval: N/A ft to N/A ft

Approximate Construction Details of Well based on information obtained during clean-out and from geophysical logs.

Casing Type
 Plain
 Perforated
 Uncertain
 Schematic Diagram
 Water Loc.



Well Development (performed only at wells to be sampled prior to closure)

Contractor: N/A

Date: N/A Method(s): N/A

Casing Removed from Well

Per-
forated

X	Size 4 & kind steel	from 0	to 80	ft
	Size & kind	from	to	ft
	Size & kind	from	to	ft
	Size & kind	from	to	ft

Amount & Location of Casing Left in Well

Amount 0 ft Interval: from N/A to N/A ft

Plain - Perforated - Uncertain (circle one) Size: N/A

Method of Parting this Casing from that Removed from Well:

Performations Imparted to Casing Left in Well

Method(s): Milled out Casing

Interval: from 80 to 257 ft

Interval: from to ft

Plugging Bentonite (5%) /

Material: Cement Grout Interval: from 0 to 257 ft

Remarks

Prepared by: B. Bush

Well 23A04

TASK 37 - WELL CLOSURE LOG

Well # 24120 Reported Depth: 97 (ft)
Observed Casing at Surface: 1/4 (in) thick, 2 (in) diameter
Location: NE 1/4 of the NE 1/4 of the sec
T 2S, R, 67W, 6th pm
State Planar Coordinates: N 196,011, E 2,188,073
Drilling/Well Closure Contractor: Custom Auger Drilling, Inc.
Closure Dates: 08-26-88 to 08-29-88

WELL CLOSURE PROCEDURES/INFORMATION

Clean-Out

Equipment Used: CME 55 Rig, 8 in. Hollow Stem Auger

Depth of Clean-out Achieved: 102 ft.

Reason for discontinuing Clean-out at depth listed above:

- ☐ Refusal/probable blockage
☒ At probable original TD of well based on drilling information
☐ Both of the above
☐ Other, (explain):

Geophysical Logs Run yes ☒ no

Contractor: N/A

Types of Logs Run: N/A

Logging interval: N/A ft to N/A ft

Approximate Construction Details of Well based on information obtained during clean-out and from geophysical logs.

Casing Type

To From Plain Perforated Uncertain Schematic Diagram Water Loc.

0	PLAIN			UNKNOWN
84.5	PERF			
97				

Well Development (performed only at wells to be sampled prior to closure)

Contractor: N/A

Date: N/A Method(s): N/A

Casing Removed from Well

Plain	Per- forated	Size	& kind	PVC	from	to
X	X	2	& kind	PVC	0	84.5 ft
		2	& kind	PVC	84.5	to 97 ft
		Size	& kind	from	to	ft
		Size	& kind	from	to	ft

Amount & Location of Casing Left in Well

Amount: 0 ft Interval: from N/A to N/A ft

Plain - Perforated - Uncertain (circle one) Size: N/A

Method of Parting this Casing from that Removed from Well: N/A

Performations Imparted to Casing Left in Well

Method(s): N/A

Interval: from N/A to N/A ft

Interval: from to to to ft

Plugging Bentonite (5%)/

Material: Cement Grout Interval: from 0 to 96 ft

Remarks

Hole caved 6 feet from the bottom.

55 sacks cement

Well 24120

Prepared by: L. Indergard

TASK 37 - WELL CLOSURE LOG

Well # 24144 Reported Depth: 60 (ft)
Observed Casing at Surface: 1/4 (in) thick, 2 (in) diameter
Location: NW 1/4 of the NE 1/4 of the sec
T 2S, R, 67W, 6th pm
State Planar Coordinates: N 195,863, E 186,460
Drilling/Well Closure Contractor: Custom Auger Drilling, Inc.
Closure Dates: 08-30-88 to 08-30-88

WELL CLOSURE PROCEDURES/INFORMATION

Clean-Out

Equipment Used: CME 55 Rig, 3 in. washover pipe

Depth of Clean-out Achieved: 63 ft.

Reason for discontinuing Clean-out at depth listed above:

- ☐ Refusal/probable blockage
☒ At probable original TD of well based on drilling information
☐ Both of the above
☐ Other, (explain):

Geophysical Logs Run yes ☒ no

Contractor: N/A

Types of Logs Run: N/A

Logging interval: N/A ft to N/A ft

Approximate Construction Details of Well based on information obtained during clean-out and from geophysical logs.

Casing Type

To From Plain Perforated Uncertain Schematic Diagram Water Loc.

0	40	58	PLAIN	PERF	UNKNOWN
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Well Development (performed only at wells to be sampled prior to closure)

Contractor: N/A

Date: N/A Method(s): N/A

Casing Removed from Well

Per-
forated

X	Size 2 & kind PVC from 0 to 40 ft
X	Size 2 & kind PVC from 40 to 58 ft
	Size & kind from to ft
	Size & kind from to ft

Amount & Location of Casing Left in Well

Amount 0 ft Interval: from N/A to N/A

Plain - Perforated - Uncertain (circle one) Size: N/A

Method of Parting this Casing from that Removed from Well: N/A

Perforations Imparted to Casing Left in Well

Method(s):

Interval: from to ft

Interval: from to ft

Plugging Bentonite (5%)/

Material: Cement Grout Interval: from 0 to 60 ft

Remarks

18 sacks cement

Well 24144

Prepared by: L. Indergard

TASK 37 - WELL CLOSURE LOG

Well # 26043 Reported Depth: 77.9 (ft)
Observed Casing at Surface: 1/4 (in) thick, 2 (in) diameter
Location: NE 1/4 of the NW 1/4 of the sec
T 2S, R, 67W, 6th pm
State Planar Coordinates: N 190,723, E 2,180,855
Drilling/Well Closure Contractor: Layne Western Co., Inc.
Closure Dates: 6-2-88 to 6-2-88

WELL CLOSURE PROCEDURES/INFORMATION

Clean-Out

Equipment Used: Hollow Stem Auger

Depth of Clean-out Achieved: 80' ft.

Reason for discontinuing Clean-out at depth listed above:

 Refusal/probable blockage

 At probable original TD of well based on drilling
information

 Both of the above

 X Other, (explain): Drilled to 80 ft. to ensure that the
PVC remaining in the hole was broken up

Geophysical Logs Run yes X no

Contractor: N/A

Types of Logs Run: N/A

Logging interval: N/A ft to N/A ft

Approximate Construction Details of Well based on information obtained during clean-out and from geophysical logs.

Casing Type
 Plain
 Perforated
 Uncertain
 To From
 Schematic Diagram
 Water Loc.

0	PLAIN	UNKNOWN
68.7	PERF	
72.2		

Well Development (performed only at wells to be sampled prior to closure)

Contractor: N/A

Date: N/A Method(s): N/A

Casing Removed from Well

Per-
 Plain forated

X	Size (in)	2	& kind	PVC	from 0	to 68.7 ft
X	Size (in)	2	& kind	PVC	from 68.7	to 72.2 ft
	Size (in)		& kind		from	to
	Size (in)		& kind		from	to
	Size (in)		& kind		from	to

Amount & Location of Casing Left in Well

Amount approx. 5 ft Interval: from 72.2 to 77 ft

Plain - Perforated - Uncertain (circle one) Size: 2 in. PVC

Method of Parting this Casing from that Removed from Well: The bottom section of casing was broken prior to closure and could not be retrieved.

Perforations Imparted to Casing Left in Well

Method(s): Drilled out remaining PVC

Interval: from 77 to 80 ft

Interval: from to ft

Plugging Bentonite (5%)/

Material: Cement Grout Interval: from 0 to 80 ft

Remarks

Water at 45'. The total depth was 77'. This measurement was made after a section of PVC was cut off of the casing and will not agree with other well records.

Well 26043

Prepared by: L. Darragh

TASK 37 - WELL CLOSURE LOG

Well # 26044 Reported Depth: 58.6 (ft)
Observed Casing at Surface: 1/4 (in) thick, 2 (in) diameter
Location: NE 1/4 of the NW 1/4 of the sec
T 2S, R, 67W, 6th pm
State Planar Coordinates: N 191,021, E 2,180,886
Drilling/Well Closure Contractor: Layne Western Co., Inc.
Closure Dates: 5-31-88 to 6-1-88

WELL CLOSURE PROCEDURES/INFORMATION

Clean-Out

Equipment Used: Hollow Stem Auger

Depth of Clean-out Achieved: 70 ft.

Reason for discontinuing Clean-out at depth listed above:

- ☐ Refusal/probable blockage
☐ At probable original TD of well based on drilling information
☐ Both of the above
☒ Other, (explain): Drilled to 70 ft. to ensure that the PVC left in the hole was broken up.

Geophysical Logs Run yes ☒ no

Contractor: N/A.

Types of Logs Run: N/A

Logging interval: N/A ft to N/A ft

Well Development (performed only at wells to be sampled prior to closure)

Contractor: N/A

Casing Type

Date:	N/A	Method(s):	N/A
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To	From	Perforated	Schematic Diagram	Water Loc.
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Casing Removed from Well

	PLAIN	PERF.	PLAIN
0			
48.2			
51.6			
55.4			
Δ			
42			

Plain	Perforated
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16
17	17
18	18
19	19
20	20
21	21
22	22
23	23
24	24
25	25
26	26
27	27
28	28
29	29
30	30
31	31
32	32
33	33
34	34
35	35
36	36
37	37
38	38
39	39
40	40
41	41
42	42
43	43
44	44
45	45
46	46
47	47
48	48
49	49
50	50
51	51
52	52
53	53
54	54
55	55
56	56
57	57
58	58
59	59
60	60
61	61
62	62
63	63
64	64
65	65
66	66
67	67
68	68
69	69
70	70
71	71
72	72
73	73
74	74
75	75
76	76
77	77
78	78
79	79
80	80
81	81
82	82
83	83
84	84
85	85
86	86
87	87
88	88
89	89
90	90
91	91
92	92
93	93
94	94
95	95
96	96
97	97
98	98
99	99
100	100

X	Size 2	& kind	PVC	from 0	to 48.2 ft
	(in)				
	X	Size 2	& kind	PVC	from 48.2 to 51.6 ft
		(in)			
	X	Size 2	& kind	PVC	from 51.6 to 55.4 ft
		(in)			
		Size	& kind	from	to ft
		(in)			

Amount & Location of Casing Left in Well

Amount	2.4	ft	Interval:	from	55.4	to	57.9	ft
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Plain - Perforated - Uncertain (circle one) Size: 2 in.

Method of Parting this Casing from that Removed from Well:

The casing was broken during drilling.

Perforations Imparted to Casing Left in Well

Method(s): Drilled out remaining PVC

Interval: from 55.4 to 70 ft

Interval: from _____ to _____ ft

Plugging Bentonite (58)/

Material: Cement Grout Interval: from 0 to 70 ft

Remarks

Water at 42 ft. Total depth was 57.9'. This measurement was made after a section of PVC was cut off of the casing and will not agree with other records.

well
26044

Prepared by: L. Darragh

TASK 37 - WELL CLOSURE LOG

Well # 26046 Reported Depth: 48.5 (ft)
Observed Casing at Surface: 1/4 (in) thick, 2 (in) diameter
Location: NE 1/4 of the NW 1/4 of the sec
T 2S, R, 67W, 6th pm
State Planar Coordinates: N 190,897, E 2,181,194
Drilling/Well Closure Contractor: Layne Western Co., Inc.
Closure Dates: 6-3-88 to 6-3-88

WELL CLOSURE PROCEDURES/INFORMATION

Clean-Out

Equipment Used: Hollow Stem Auger

Depth of Clean-out Achieved: 44.6 ft.

Reason for discontinuing Clean-out at depth listed above:

- ☐ Refusal/probable blockage
☒ At probable original TD of well based on drilling information
☐ Both of the above
☐ Other, (explain):

Geophysical Logs Run yes ☒ no

Contractor: N/A

Types of Logs Run: N/A

Logging interval: N/A ft to ft

Approximate Construction Details of Well based on information obtained during clean-out and from geophysical logs.

Casing Type		Schematic Diagram	Water Loc.
To	From		
0	36.3	PLAIN	36
36.3	39.7	PERF.	
39.7	44.6	PLAIN	

Well Development (performed only at wells to be sampled prior to closure)

Contractor: N/A
 Date: N/A Method(s): N/A

Casing Removed from Well

Per- forated		Size		PVC		from		to	
Plain	forated	Size (in)	& kind	Size (in)	& kind	Size (in)	& kind	Size (in)	& kind
X	X	2	2	2	2	0	36.3	0	36.3
X	X	2	2	2	2	36.3	39.7	36.3	39.7
		2	2	2	2	39.7	44.6	39.7	44.6

Amount & Location of Casing Left in Well

Amount N/A ft Interval: from N/A to N/A ft
 Plain - Perforated - Uncertain (circle one) Size: N/A
 Method of Parting this Casing from that Removed from Well: N/A

Perforations Imparted to Casing Left in Well

Method(s): N/A
 Interval: from N/A to ft
 Interval: from ft to ft

Plugging Bentonite (5%)/

Material: Cement Grout Interval: from 0 to 44.6 ft

Remarks

Water at 36 ft. This well casing was broken off during construction of an evaporation pond. The total depth will not agree with other well records.

TASK 37 - WELL CLOSURE LOG

Well # 26A01 Reported Depth: 27 (ft)
Observed Casing at Surface: -- (in) thick, 6 (in) diameter
Location: SW 1/4 of the NW 1/4 of the sec
T 2S, R, 67W, 6th pm
State Planar Coordinates: N 188,334, E 2,178,661
Drilling/Well Closure Contractor: Layne Western Co., Inc.
Closure Dates: 06-07-88 to 09-16-88

WELL CLOSURE PROCEDURES/INFORMATION

Clean-Out

Equipment Used: Washover Pipe, 2 15/16 in Washout bit

Depth of Clean-out Achieved: 377 ft.

Reason for discontinuing Clean-out at depth listed above:

- ☐ Refusal/probable blockage
☒ At probable original TD of well based on drilling information
☐ Both of the above
☐ Other, (explain):

Geophysical Logs Run ☒ yes ☐ no

Contractor: Coloq, Inc.

Types of Logs Run: Casing Collar Locator, Caliper

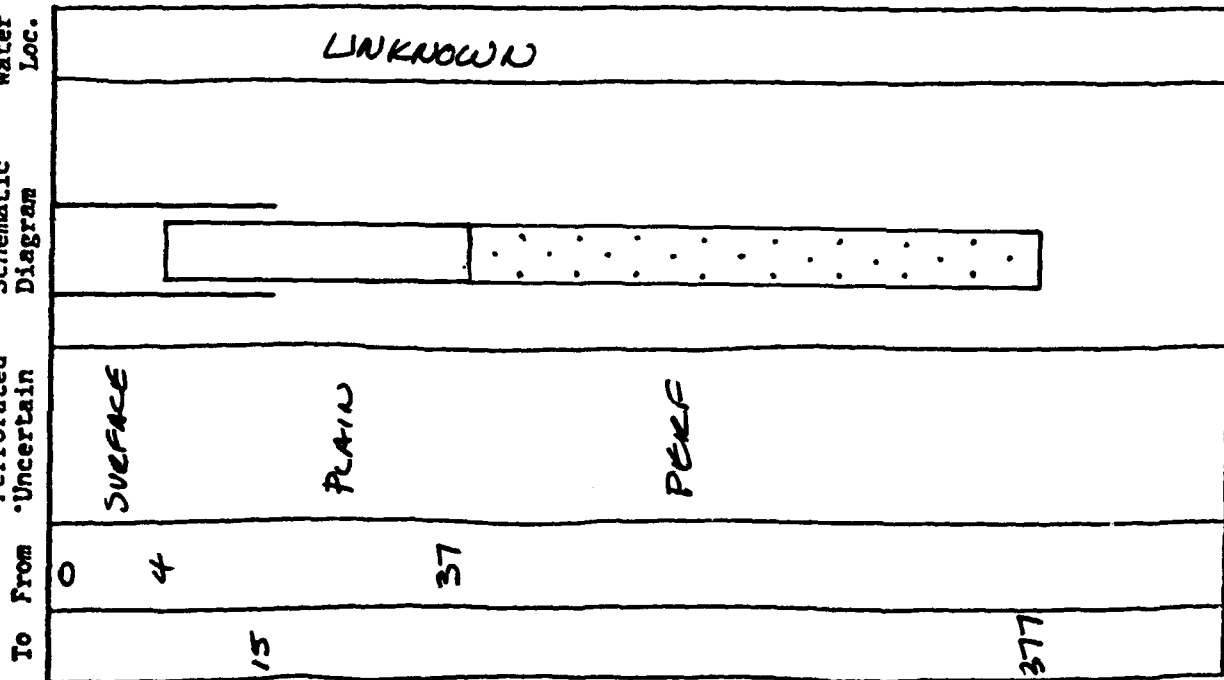
Logging interval: 0 ft to 377 ft

Approximate Construction Details of Well based on information obtained during clean-out and from geophysical logs.

Casing Type
 Plain
 Perforated
 Uncertain

Schematic Diagram

Water Loc.



Well Development (performed only at wells to be sampled prior to closure)

Contractor: N/A

Date: N/A Method(s): N/A

Casing Removed from Well

Perforated

X	Size 8	& kind Galv.	from 0	to 15	ft
X	Size 3	& kind steel	from 4	to 37	ft
X	Size 3	& kind steel	from 37	to 377	ft
	Size	& kind	from	to	ft

Amount & Location of Casing Left in Well

Amount 340 ft Interval: from 37 to 377 ft

Plain - Perforated - Uncertain (circle one) Size: 3 in

Method of Parting this Casing from that Removed from Well:

Cut with casing cutter

Performations Imparted to Casing Left in Well

Method(s): Perforating Guns, Casing Cutter

Interval: from 37 to 367 ft

Interval: from to ft

Plugging Bentonite (5%) /

Material: Cement Grout Interval: from 0 to 377 ft

Remarks

Casing cut at 37 feet

Well 26A01

Prepared by: B. Bush

TASK 37 - WELL CLOSURE LOG

Well # 26A03 Reported Depth: 700 (ft)
Observed Casing at Surface: -- (in) thick, -- (in) diameter
Location: SW 1/4 of the NE 1/4 of the sec
T 2S, R, 67W, 6th pm
State Planar Coordinates: N 189,907, E 2;181,183
Drilling/Well Closure Contractor: Layne Western Co., Inc.
Closure Dates: 07-25-88 to 09-20-88

WELL CLOSURE PROCEDURES/INFORMATION

Clean-Out

Equipment Used:

Depth of Clean-out Achieved: 711 ft.

Reason for discontinuing Clean-out at depth listed above:

- ☐ Refusal/probable blockage
☒ At probable original TD of well based on drilling information
☐ Both of the above
☐ Other, (explain):

Geophysical Logs Run ☒ yes ☐ no

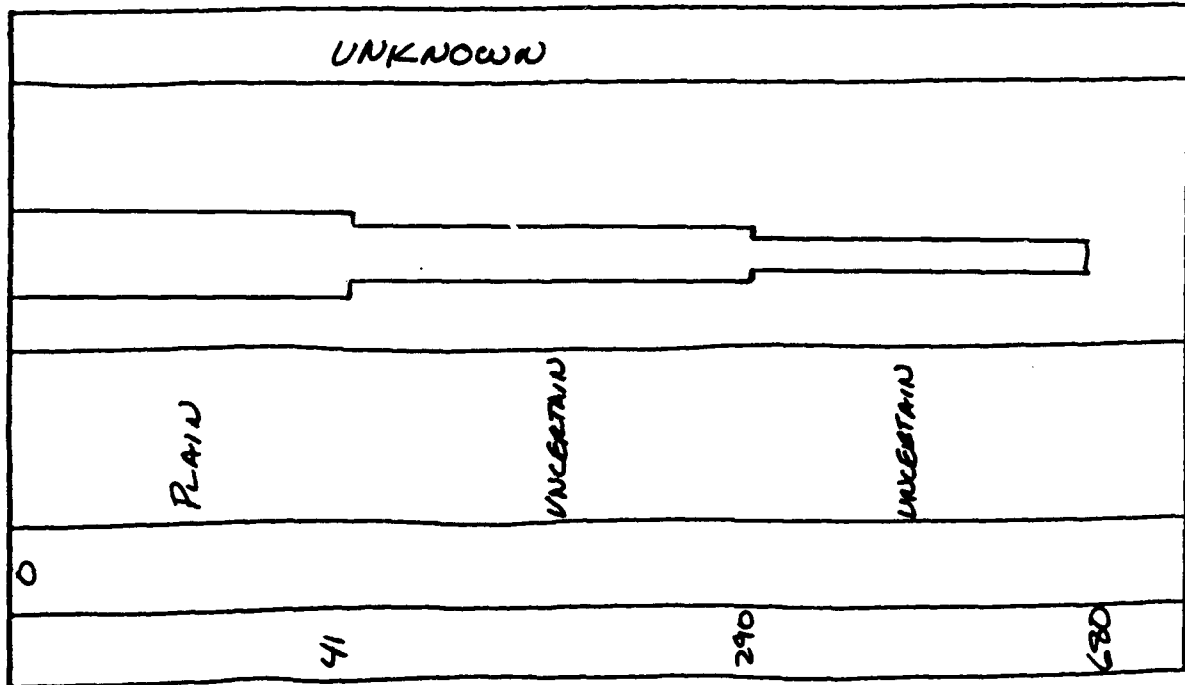
Contractor: Colog, Inc.

Types of Logs Run: Caliper, Casing Collar Locator

Logging interval: 0 ft to 680 ft

Approximate Construction Details of Well based on information obtained during clean-out and from geophysical logs.

Casing Type
 Plain
 Perforated
 Uncertain
 Schematic Diagram
 Water Loc.



Well Development (performed only at wells to be sampled prior to closure)

Contractor: N/A

Date: N/A Method(s): N/A

Casing Removed from Well

Perforated

X	Size 5.2	& kind steel	from 0	to 41	ft
	Size 4.0	& kind steel	from 41	to 290	ft
	Size 3.2	& kind steel	from 290	to 680	ft
	Size	& kind	from	to	ft

Amount & Location of Casing Left in Well

Amount 636 ft Interval: from 75 to 711 ft

Plain - Perforated - Uncertain (circle one) Size: 3.2 in

Method of Parting this Casing from that Removed from Well:

Cut with Casing Cutter

Performations Imparted to Casing Left in Well

Method(s): Perforating Guns Casing Cutter

Interval: from 75 to 175 ft *

Interval: from 175 to 650 ft **

Plugging Bentonite (5%) /

Material: Cement Grout Interval: from 0 to 711 ft

Remarks

* One shot per foot

** One shot per 10 feet

Casing Cutters shot at 75 and 125'

Well

26A03

Prepared by: L. Indergard

TASK 37 - WELL CLOSURE LOG

Well # 27014 Reported Depth: 27 (ft)
Observed Casing at Surface: 1/4 (in) thick, 2 (in) diameter
Location: NE 1/4 of the NE 1/4 of the sec
T 2S, R, 67W, 6th pm
State Planar Coordinates: N 190522, E 2178077
Drilling/Well Closure Contractor: Custom Auger Drilling, Inc.
Closure Dates: 8-17-88 to 8-17-88

WELL CLOSURE PROCEDURES/INFORMATION

Clean-Out

Equipment Used: CME 55 Rig, 8 in. Hollow Stem Augers

Depth of Clean-out Achieved: 30 ft.

Reason for discontinuing Clean-out at depth listed above:

- ☐ Refusal/probable blockage
☒ At probable original TD of well based on drilling information
☐ Both of the above
☐ Other, (explain):

Geophysical Logs Run yes ☒ no

Contractor: N/A

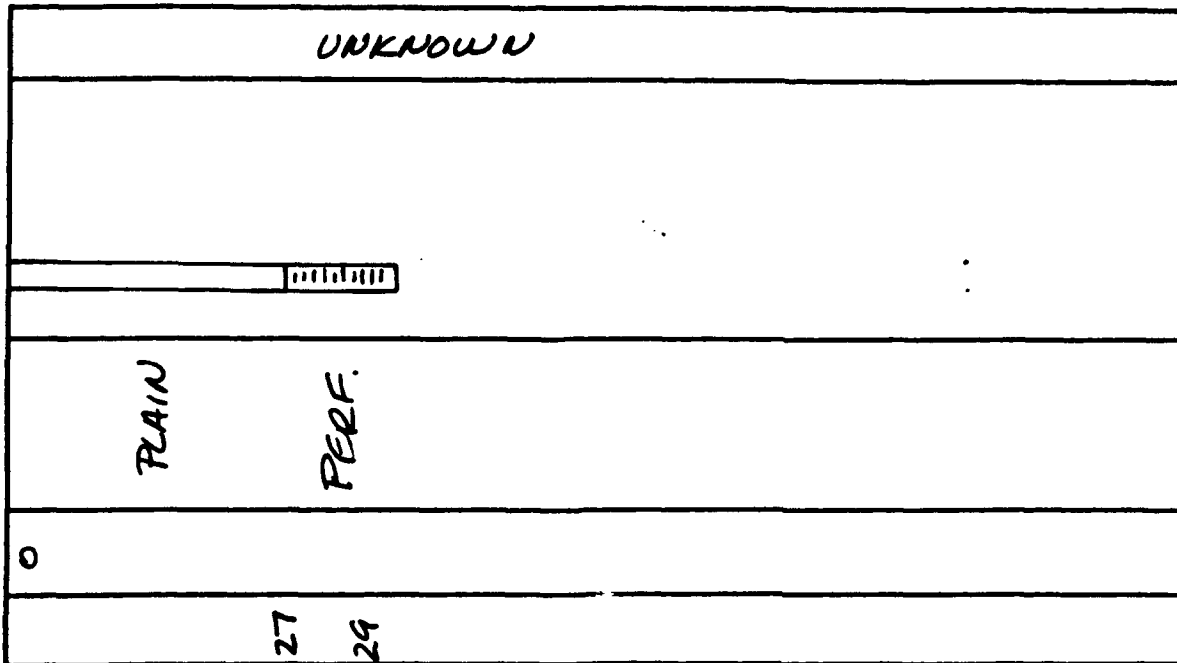
Types of Logs Run: N/A

Logging interval: N/A ft to N/A ft

Approximate Construction Details of Well based on information obtained during clean-out and from geophysical logs.

Casing Type

To From
 • Plain
 • Perforated
 • Uncertain
 Schematic Diagram
 Water Loc.



Well Development (performed only at wells to be sampled prior to closure)

Contractor: N/A

Date: N/A Method(s): N/A

Casing Removed from Well

Plain	Perforated	Size	& kind	PVC	from	to	ft
X	X	2	& kind	PVC	from	0	27
		2	& kind	PVC	from	27	29
		Size	& kind	from	to	ft	
		Size	& kind	from	to	ft	

Amount & Location of Casing Left in Well

Amount: 0 ft Interval: from N/A to ft

Plain - Perforated - Uncertain (circle one) Size: N/A

Method of Parting this Casing from that Removed from Well: N/A

Perforations Imparted to Casing Left in Well

Method(s): N/A

Interval: from ft to ft

Interval: from ft to ft

Plugging Bentonite (5%)/

Material: Cement Grout Interval: from 0 to 30 ft

Remarks

Well 27014

Prepared by: L. Indergard

TASK 37 - WELL CLOSURE LOG

Well # 27021 Reported Depth: 17 (ft)
Observed Casing at Surface: 1/4 (in) thick, 2 (in) diameter
Location: SE 1/4 of the NE 1/4 of the sec
T 2S, R, 67W, 6th pm
State Planar Coordinates: N 188,792, E 2,177,815
Drilling/Well Closure Contractor: Custom Auger Drilling, Inc.
Closure Dates: 08-17-88 to 08-17-88

WELL CLOSURE PROCEDURES/INFORMATION

Clean-Out

Equipment Used: CME 55 Rig, 8 in. Hollow Stem Augers

Depth of Clean-out Achieved: 18.5 ft.

Reason for discontinuing Clean-out at depth listed above:

- ☐ Refusal/probable blockage
☒ At probable original TD of well based on drilling information
☐ Both of the above
☐ Other, (explain):

Geophysical Logs Run yes X no

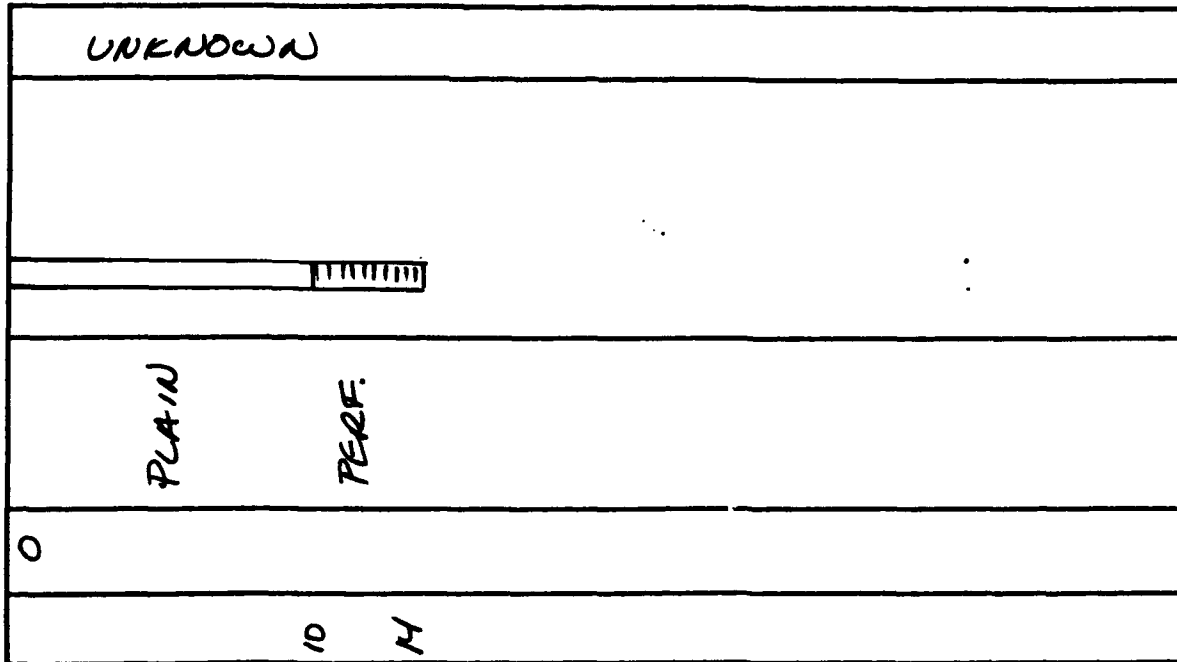
Contractor: N/A

Types of Logs Run: N/A

Logging interval: N/A ft to N/A ft

Approximate Construction Details of Well based on information obtained during clean-out and from geophysical logs.

To From Casing Type
 • Plain
 • Perforated
 • Uncertain Schematic Diagram Water Loc.



Well Development (performed only at wells to be sampled prior to closure)

Contractor: N/A

Date: N/A Method(s): N/A

Casing Removed from Well

Plain Per-
forated

X	Size 2 & kind PVC from 0 to 10 ft
X	Size 2 & kind PVC from 10 to 14 ft
	Size & kind from to ft
	Size & kind from to ft

Amount & Location of Casing Left in Well

Amount 0 ft Interval: from N/A to ft

Plain - Perforated - Uncertain (circle one) Size: N/A

Method of Parting this Casing from that Removed from Well: N/A

Performations Imparted to Casing Left in Well

Method(s): N/A

Interval: from N/A to N/A ft

Interval: from to to ft

Plugging Bentonite (5%)/

Material: Cement Grout Interval: from 0 to 18.5 ft

Remarks

Well 27021

Prepared by: L. Indergard

TASK 37 - WELL CLOSURE LOG

Well # 27022 Reported Depth: 15 (ft)
Observed Casing at Surface: 1/4 (in) thick, 2 (in) diameter
Location: SE 1/4 of the NE 1/4 of the sec
T 2S, R, 67W, 6th pm
State Planar Coordinates: N 188,545, E 2,177,778
Drilling/Well Closure Contractor: Custom Auger Drilling, Inc.
Closure Dates: 8-17-88 to 8-17-88

WELL CLOSURE PROCEDURES/INFORMATION

Clean-Out

Equipment Used: CME 55 Rig, 8 in. Hollow Stem Augers

Depth of Clean-out Achieved: 17 ft.

Reason for discontinuing Clean-out at depth listed above:

- ☐ Refusal/probable blockage
☒ At probable original TD of well based on drilling information
☐ Both of the above
☐ Other, (explain):

Geophysical Logs Run yes ☒ no

Contractor: N/A

Types of Logs Run: N/A

Logging interval: N/A ft to N/A ft

Approximate Construction Details of Well based on information obtained during clean-out and from geophysical logs.

Casing Type

To From Perforated Schematic Diagram Water Loc.

0	PLAIN	UNKNOWN	
10	PERF.		
15			

Well Development (performed only at wells to be sampled prior to closure)

Contractor: N/A

Date: N/A Method(s): N/A

Casing Removed from Well

Per-
Plain forated

X	Size 2 & kind PVC from 0 to 10 ft
X	Size 2 & kind PVC from 10 to 15 ft
	Size & kind from to ft
	Size & kind from to ft

Amount & Location of Casing Left in Well

Amount N/A ft Interval: from N/A to ft

Plain - Perforated - Uncertain (circle one) Size: N/A

Method of Parting this Casing from that Removed from Well: N/A

Perforations Imparted to Casing Left in Well

Method(s): N/A

Interval: from N/A to N/A ft

Interval: from to ft

Plugging Bentonite (5%)/

Material: Cement Grout Interval: from 0 to 17 ft

Remarks

6 sacks cement

Well 27022

Prepared by: L. Indergard

TASK 37 - WELL CLOSURE LOG

Well # 27023 Reported Depth: 42 (ft)
Observed Casing at Surface: 1/4 (in) thick, 2 (in) diameter
Location: NE 1/4 of the SE 1/4 of the sec
T 2S, R, 67W, 6th pm
State Planar Coordinates: N 188,300, E 2,177,241
Drilling/Well Closure Contractor: Custom Auger Drilling, Inc.
Closure Dates: 08-17-88 to 08-17-88

WELL CLOSURE PROCEDURES/INFORMATION

Clean-Out

Equipment Used: CME 55 Rig, 8 in. Hollow Stem Augers

Depth of Clean-out Achieved: 44 ft.

Reason for discontinuing Clean-out at depth listed above:

- ☐ Refusal/probable blockage
☒ At probable original TD of well based on drilling information
☐ Both of the above
☐ Other, (explain):

Geophysical Logs Run ☐ yes ☒ no

Contractor: N/A

Types of Logs Run: N/A

Logging interval: N/A ft to N/A ft

Approximate Construction Details of Well based on information obtained during clean-out and from geophysical logs.

Casing Type

To From
Plain
Perforated
Uncertain
Schematic Diagram
Water Loc.

0	PLAIN	UNKNOWN
35	PERF	
36		

Well Development (performed only at wells to be sampled prior to closure)

Contractor: N/A

Date: N/A Method(s): N/A

Casing Removed from Well

Plain Perforated

X	Size 2 & kind PVC from 0 to 35 ft
X	Size 2 & kind PVC from 35 to 36 ft
	Size & kind from to ft
	Size & kind from to ft

Amount & Location of Casing Left in Well

Amount 0 ft Interval: from N/A to ft

Plain - Perforated - Uncertain (circle one) Size: N/A

Method of Parting this Casing from that Removed from Well: N/A

Perforations Imparted to Casing Left in Well

Method(s): N/A

Interval: from N/A to N/A ft

Interval: from to ft

Plugging Bentonite (5%)/

Material: Cement Grout Interval: from 0 to 44 ft

Remarks

15 sacks cement

Well 27023

Prepared by: L. Indergard

TASK 37 - WELL CLOSURE LOG

Well # 27A05 Reported Depth: 58 (ft)
Observed Casing at Surface: 1/8 (in) thick, 3 (in) diameter
Location: SE 1/4 of the SE 1/4 of the sec
T 2S, R, 67W, 6th pm
State Planar Coordinates: N 186,544, E 2,177,968
Drilling/Well Closure Contractor: Layne Western Co., Inc.
Closure Dates: 05/16/88 to 9/20/88

WELL CLOSURE PROCEDURES/INFORMATION

Clean-Out

Equipment Used: Mud Rotary Rig, Milling Tool

Depth of Clean-out Achieved: 260 ft.

Reason for discontinuing Clean-out at depth listed above:

- ☐ Refusal/probable blockage
☒ At probable original TD of well based on drilling information
☐ Both of the above
☐ Other, (explain):

Geophysical Logs Run ☒ yes ☐ no

Contractor: Colog, Inc.

Types of Logs Run: Caliper, Casing Collar Locator

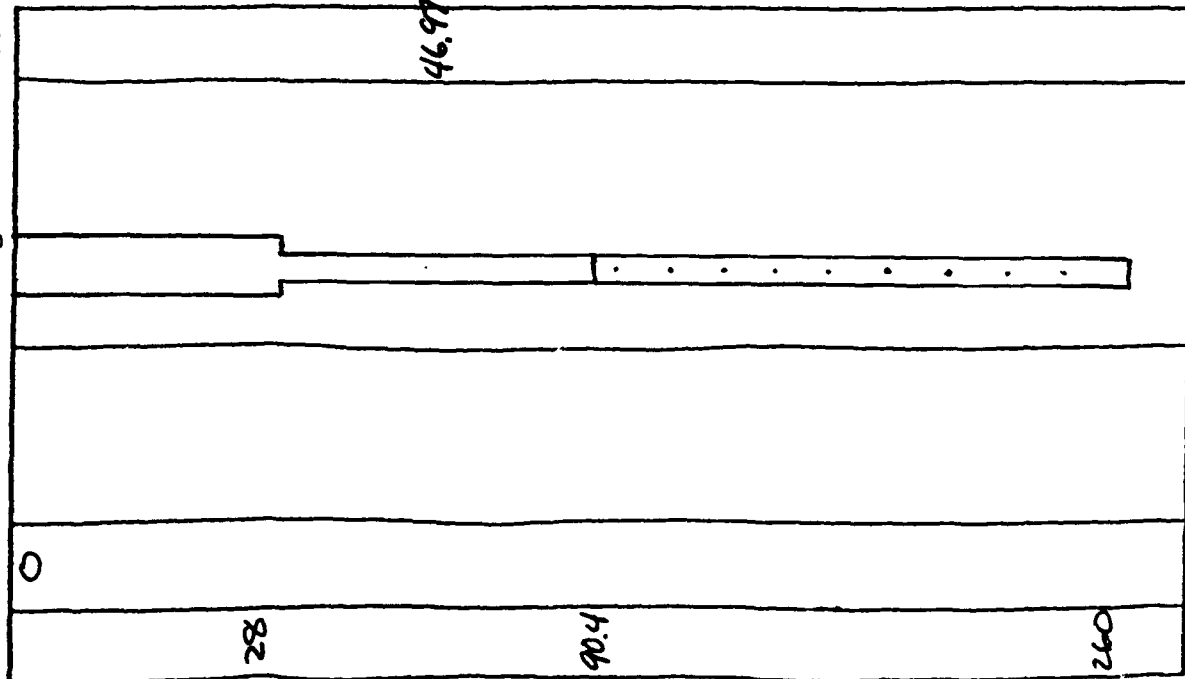
Single Point SP, Natural Gamma

Logging interval: _____ ft to _____ ft

Approximate Construction Details of Well based on information obtained during clean-out and from geophysical logs.

Casing Type

To From Plain Perforated Uncertain Schematic Diagram Water Loc.



Well Development (performed only at wells to be sampled prior to closure)

Contractor: N/A

Date: N/A Method(s): N/A

Casing Removed from Well

Plain Perforated

X	Size 5 (in)	& kind steel	from 0	to 28	ft
X	Size 3 (in)	& kind steel	from 20	to 90.4	ft
X	Size 3 (in)	& kind steel	from 93	to 260	ft
	Size (in)	& kind	from	to	ft

Amount & Location of Casing Left in Well

Amount: ft Interval: from to ft

Plain - Perforated - Uncertain (circle one) Size:

Method of Parting this Casing from that Removed from Well:

Casing Parted due to Corrosion

Performances Imparted to Casing Left in Well

Method(s):

Interval: from 93 to 260 ft

Interval: from to ft

Plugging Bentonite (5%)/

Material: Cement Grout Interval: from 0 to 260 ft

Remarks

Water at 47 feet.

Casing from 93 feet to 250 feet is corroded.

Well 27A05

Prepared by: B. Bush

TASK 37 - WELL CLOSURE LOG

Well # 33012 Reported Depth: 124 (ft)
Observed Casing at Surface: 1/4 (in) thick, 2 (in) diameter
Location: NE 1/4 of the NW 1/4 of the sec
T 2S, R, 67W, 6th pm
State Planar Coordinates: N 183,776, E 2,168,345
Drilling/Well Closure Contractor: Custom Auger Drilling, Inc.
Closure Dates: 09-06-88 to 09-06-88

WELL CLOSURE PROCEDURES/INFORMATION

Clean-Out

Equipment Used: CME 55 Rig, 8 in. Hollow Stem Augers

Depth of Clean-out Achieved: 125 ft.

Reason for discontinuing Clean-out at depth listed above:

- ☐ Refusal/probable blockage
☒ At probable original TD of well based on drilling information
☐ Both of the above
☐ Other, (explain):

Geophysical Logs Run yes ☒ no

Contractor: N/A

Types of Logs Run: N/A

Logging interval: N/A ft to N/A ft

Approximate Construction Details of Well based on information obtained during clean-out and from geophysical logs.

Casing Type
Plain

To From Schematic Diagram Water Loc.

0	PLAIN			UNKNOWN
120	PERF			
124	PLAIN			
125				

Well Development (performed only at wells to be sampled prior to closure)

Contractor: N/A

Date: N/A Method(s): N/A

Casing Removed from Well

Per-
forated

X	Size 2 & kind PVC from 0 to 120 ft
X	Size 2 & kind PVC from 120 to 124 ft
X	Size 2 & kind PVC from 124 to 125 ft
	Size & kind from to ft

Amount & Location of Casing Left in Well

Amount 0 ft Interval: from N/A to N/A

Plain - Perforated - Uncertain (circle one) Size: N/A

Method of Parting this Casing from that Removed from Well: N/A

Performations Imparted to Casing Left in Well

Method(s): N/A

Interval: from N/A to N/A ft

Interval: from to ft

Plugging Bentonite (5%)/

Material: Cement Grout Interval: from 0 to 125 ft

Remarks

25 sacks cement

Well 33012

Prepared by: L. Indergard

TASK 37 - WELL CLOSURE LOG

Well # 33013 Reported Depth: 126 (ft)
Observed Casing at Surface: 1/4 (in) thick, 2 (in) diameter
Location: NE 1/4 of the NW 1/4 of the sec
T 2S, R, 67W, 6th pm
State Planar Coordinates: N 183,527, E 2,168,324
Drilling/Well Closure Contractor: Custom Auger Drilling, Inc.
Closure Dates: 08-31-88 to 09-01-88

WELL CLOSURE PROCEDURES/INFORMATION

Clean-Out

Equipment Used: CME 55 Rig, 8 in. Hollow Stem Augers

Depth of Clean-out Achieved: 132 ft.

Reason for discontinuing Clean-out at depth listed above:

- ☐ Refusal/probable blockage
☒ At probable original TD of well based on drilling information
☐ Both of the above
☐ Other, (explain):

Geophysical Logs Run yes ☒ no

Contractor: N/A

Types of Logs Run: N/A

Logging interval: N/A ft to N/A ft

Approximate Construction Details of Well based on information obtained during clean-out and from geophysical logs.

To From Casing Type
 • Plain
 • Perforated
 • Uncertain Schematic Diagram Water Loc.

0	PLAIN	UNKNOWN
126	PERF.	
130		

Well Development (performed only at wells to be sampled prior to closure)

Contractor: N/A

Date: N/A Method(s): N/A

Casing Removed from Well

Plain	Perforated	Size	2	& kind	PVC	from	0	to	126	ft
X	X	Size	2	& kind	PVC	from	126	to	130	ft
		Size		& kind		from		to		ft
		Size		& kind		from		to		ft

Amount & Location of Casing Left in Well

Amount 0 ft Interval: from N/A to ft

Plain - Perforated - Uncertain (circle one) Size: N/A

Method of Parting this Casing from that Removed from Well: N/A

Perforations Imparted to Casing Left in Well

Method(s): N/A

Interval: from N/A to N/A ft

Interval: from to ft

Plugging Bentonite (5%)/

Material: Cement Grout Interval: from 0 to 132 ft

Remarks

38 sacks cement

Well 33013

Prepared by: L. Indergard

TASK 37 - WELL CLOSURE LOG

Well # 33016 Reported Depth: 85 (ft)
Observed Casing at Surface: 1/4 (in) thick, 2 (in) diameter
Location: NW 1/4 of the SW 1/4 of the sec
T 2S, R, 67W, 6th pm
State Planar Coordinates: N 182,301, E 2,168,211
Drilling/Well Closure Contractor: Custom Auger Drilling, Inc.
Closure Dates: 08-31-88 to 09-01-88

WELL CLOSURE PROCEDURES/INFORMATION

Clean-Out

Equipment Used: CME 55 Rig, 8 in. Hollow Stem Augers

Depth of Clean-out Achieved: 88 ft.

Reason for discontinuing Clean-out at depth listed above:

- ☐ Refusal/probable blockage
☒ At probable original TD of well based on drilling information
☐ Both of the above
☐ Other, (explain):

Geophysical Logs Run yes ☒ no

Contractor: N/A.

Types of Logs Run: N/A

Logging interval: N/A ft to N/A ft

Approximate Construction Details of Well based on information obtained during clean-out and from geophysical logs.

Casing Type

To From Plain Perforated Uncertain Schematic Diagram Water Loc.

0	PLAIN	UNKNOWN	
75	PERF.		
85			

Well Development (performed only at wells to be sampled prior to closure)

Contractor: N/A

Date: N/A Method(s): N/A

Casing Removed from Well

Plain Perforated

X	Size 2 & kind PVC from 0 to 75 ft
X	Size 2 & kind PVC from 75 to 85 ft
	Size & kind from to ft
	Size & kind from to ft

Amount & Location of Casing Left in Well

Amount 0 ft Interval: from to ft

Plain - Perforated - Uncertain (circle one) Size:

Method of Parting this Casing from that Removed from Well:

Perforations Imparted to Casing Left in Well

Method(s):

Interval: from to ft

Interval: from to ft

Plugging Bentonite (5%)/

Material: Cement Grout Interval: from 0 to 88 ft

Remarks

27 sacks cement

Well 33016

Prepared by: L. Indergard

TASK 37 - WELL CLOSURE LOG

Well # 33A01 Reported Depth: 56 (ft)
Observed Casing at Surface: 3/16 (in) thick, 4.5 (in) diameter
Location: NW 1/4 of the NW 1/4 of the sec
T 2S, R, 67W, 6th pm
State Planar Coordinates: N 185,202, E 2,168,694
Drilling/Well Closure Contractor: Layne Western Co., Inc.
Closure Dates: 05-24-88 to 05-31-88

WELL CLOSURE PROCEDURES/INFORMATION

Clean-Out

Equipment Used: Hollow Stem Auger, Casing Spear

Depth of Clean-out Achieved: 60 ft.

Reason for discontinuing Clean-out at depth listed above:

- ☐ Refusal/probable blockage
☒ At probable original TD of well based on drilling information
☐ Both of the above
☐ Other, (explain):

Geophysical Logs Run ☐ yes ☒ no

Contractor: N/A.

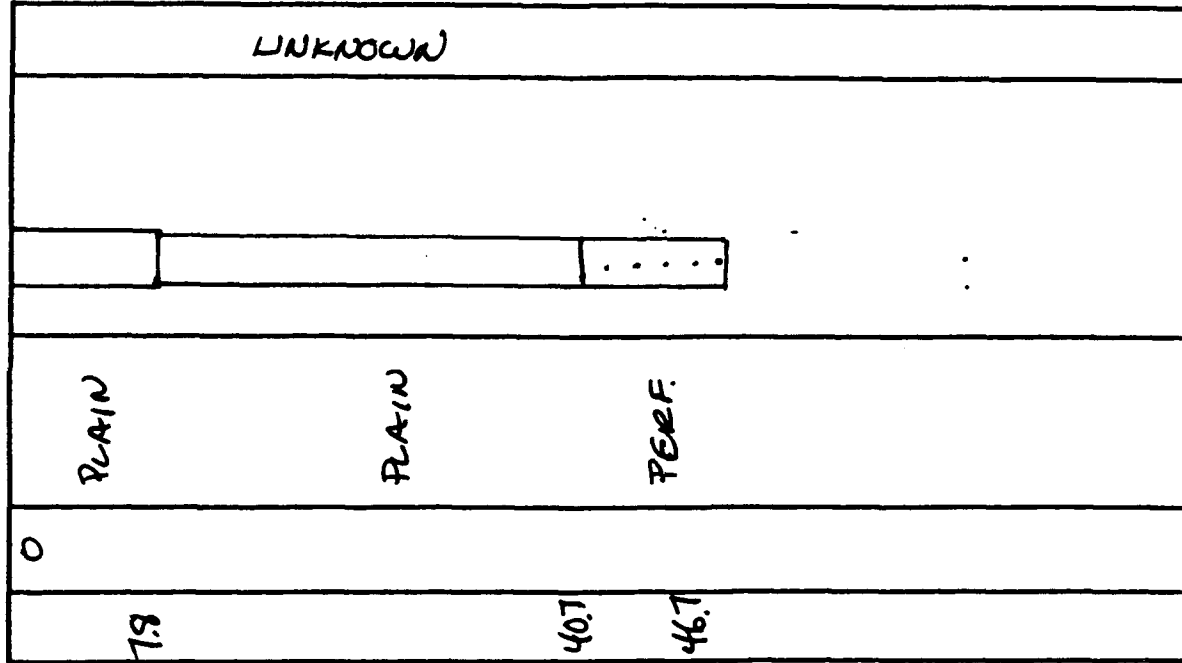
Types of Logs Run: N/A

Logging interval: N/A ft to N/A ft

Approximate Construction Details of Well based on information obtained during clean-out and from geophysical logs.

Casing Type
• Plain
• Perforated
• Uncertain

To From Schematic Diagram Water Loc.



Well Development (performed only at wells to be sampled prior to closure)

Contractor: N/A

Date: N/A Method(s): N/A

Casing Removed from Well

Per-
forated

X	Size 4.5 & kind steel from 0 to 7.8 ft (in)
X	Size 4 & kind steel from 7.8 to 40.7 ft (in)
X	Size 4 & kind steel from 40.7 to 46.7 ft (in)
	Size & kind from to ft (in)

Amount & Location of Casing Left in Well

Amount N/A ft Interval: from to ft

Plain - Perforated - Uncertain (circle one) Size: N/A

Method of Parting this Casing from that Removed from Well: N/A

Perforations Imparted to Casing Left in Well

Method(s): N/A

Interval: from to ft

Interval: from to ft

Plugging Bentonite (5%)/

Material: Cement Grout Interval: from 0 to 51 ft

Remarks

Actual total depth was 54.4 ft. Approximately 6 ft. of screen could be identified after decontaminating the casing. Split spoons taken to determine total depth.

Well 33A01

Prepared by: L. Darragh

TASK 37 - WELL CLOSURE LOG

Well # 33A04 Reported Depth: 115 (ft)
Observed Casing at Surface: -- (in) thick, 6 (in) diameter
Location: SW 1/4 of the SE 1/4 of the sec
T 2S, R, 67W, 6th pm
State Planar Coordinates: N 180,669, E 2,171,062
Drilling/Well Closure Contractor: Layne Western Co., Inc.
Closure Dates: 08-22-88 to 09-14-88

WELL CLOSURE PROCEDURES/INFORMATION

Clean-Out

Equipment Used: Washout bit, washover pipe, Overshot and grapple tools

Depth of Clean-out Achieved: 511 ft.

Reason for discontinuing Clean-out at depth listed above:

- ☐ Refusal/probable blockage
☒ At probable original TD of well based on drilling information
☐ Both of the above
☐ Other, (explain):

Geophysical Logs Run ☒ yes ☐ no

Contractor: Colog, Inc.

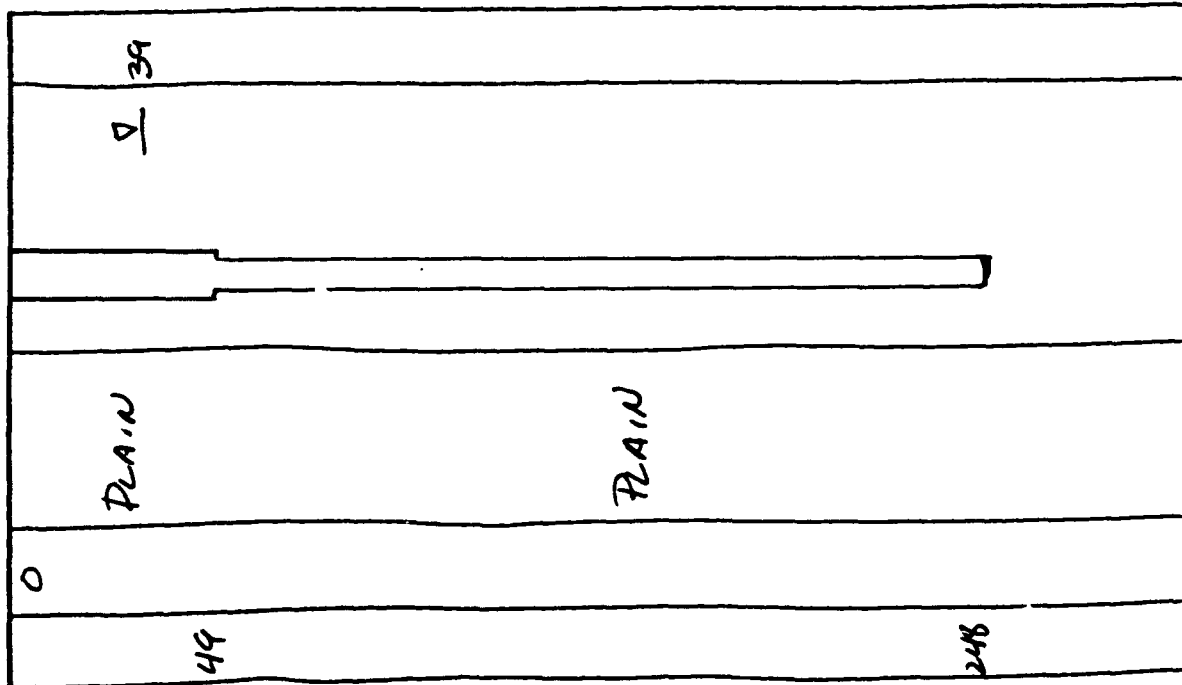
Types of Logs Run: Casing Collar Locator, Caliper

Logging interval: 0 ft to 354 ft

Approximate Construction Details of Well based on information obtained during clean-out and from geophysical logs.

Casing Type

To From 0 49 248
Plain Perforated Uncertain
Schematic Diagram
Water Loc.



Well Development (performed only at wells to be sampled prior to closure)

Contractor: N/A

Date: N/A Method(s): N/A

Casing Removed from Well

Plain Perforated

X	Size 5.25 & kind steel from 0 to 49 ft
X	Size 4.25 & kind steel from 49 to 248 ft
	Size & kind from to ft
	Size & kind from to ft

Amount & Location of Casing Left in Well

Amount ft Interval: from to ft

Plain - Perforated - Uncertain (circle one) Size:

Method of Parting this Casing from that Removed from Well:

All known casing removed

Performations Imparted to Casing Left in Well

Method(s): See note

Interval: from N/A to N/A ft

Interval: from to ft

Plugging Bentonite (5%) /

Material: Cement Grout Interval: from 0 to 511 ft

Remarks

Casing was cut at 55 and 105 feet, and perforated but subsequently removed from hole.

Well 33A04

Prepared by: B. Bush

TASK 37 - WELL CLOSURE LOG

Well # 35010 Reported Depth: 58 (ft)
Observed Casing at Surface: 1/4 (in) thick, 2 (in) diameter
Location: NW 1/4 of the NE 1/4 of the sec
T 2S, R, 67W, 6th pm
State Planar Coordinates: N 185,699, E 2,181,817
Drilling/Well Closure Contractor: Custom Auger Drilling, Inc.
Closure Dates: 08/22/88 to 08/22/88

WELL CLOSURE PROCEDURES/INFORMATION

Clean-Out

Equipment Used: CME 55 Rig, 8 in. Hollow Stem Auger

Depth of Clean-out Achieved: 60 ft.

Reason for discontinuing Clean-out at depth listed above:

- ☐ Refusal/probable blockage
☒ At probable original TD of well based on drilling information
☐ Both of the above
☐ Other, (explain):

Geophysical Logs Run yes ☒ no

Contractor: N/A

Types of Logs Run: N/A

Logging interval: N/A ft to N/A ft

Approximate Construction Details of Well based on information obtained during clean-out and from geophysical logs.

Casing Type
 Plain
 Perforated
 Uncertain
 To From
 Schematic Diagram
 Water Loc.

0	PLAIN	UNKNOWN
55		
58	PERF.	

Well Development (performed only at wells to be sampled prior to closure)

Contractor: N/A

Date: N/A Method(s): N/A

Casing Removed from Well

Plain	Per- forated	Size	& kind	PVC	from	to	ft
X	X	2	2	PVC	0	55	ft
		Size	2	& kind	PVC	from 55	to 58 ft
		Size	& kind		from	to	ft
		Size	& kind		from	to	ft

Amount & Location of Casing Left in Well

Amount 0 ft Interval: from N/A to ft

Plain - Perforated - Uncertain (circle one) Size: N/A

Method of Parting this Casing from that Removed from Well: N/A

Perforations Imparted to Casing Left in Well

Method(s): N/A

Interval: from N/A to N/A ft

Interval: from to ft

Plugging Bentonite (5%) /

Material: Cement Grout Interval: from 0 to 60 ft

Remarks

18 sacks cement

Well 35010

Prepared by: L. Indergard

TASK 37 - WELL CLOSURE LOG

Well # 35019 Reported Depth: 92 (ft)
Observed Casing at Surface: 1/4 (in) thick, 2 (in) diameter
Location: NW 1/4 of the NE 1/4 of the sec
T 2S, R, 67W, 6th pm
State Planar Coordinates: N 188,826, E 2,181,896
Drilling/Well Closure Contractor: Custom Auger Drilling, Inc.
Closure Dates: 08-18-88 to 08-19-88

WELL CLOSURE PROCEDURES/INFORMATION

Clean-Out

Equipment Used: CME 55 Rig, 8 in. Hollow Stem Auger

Depth of Clean-out Achieved: 95 ft.

Reason for discontinuing Clean-out at depth listed above:

- ☐ Refusal/probable blockage
☒ At probable original TD of well based on drilling information
☐ Both of the above
☐ Other, (explain):

Geophysical Logs Run yes ☒ no

Contractor: N/A

Types of Logs Run: N/A

Logging interval: N/A ft to N/A ft

Approximate Construction Details of Well based on information obtained during clean-out and from geophysical logs.

Casing Type

To From Plain Perforated Uncertain Schematic Diagram Water Loc.

0	10	PLAIN	UNKNOWN	
80	90	PERF.		

Well Development (performed only at wells to be sampled prior to closure)

Contractor: N/A

Date: N/A Method(s): N/A

Casing Removed from Well

Plain Perforated

X	Size 8 & kind PVC from 0 to 10 ft
X	Size 2 & kind PVC from 0 to 80 ft
X	Size 2 & kind PVC from 80 to 90 ft
	Size & kind from to ft

Amount & Location of Casing Left in Well

Amount 0 ft Interval: from N/A to ft

Plain - Perforated - Uncertain (circle one) Size: N/A

Method of Parting this Casing from that Removed from Well: N/A

Perforations Imparted to Casing Left in Well

Method(s): N/A

Interval: from N/A to N/A ft

Interval: from to ft

Plugging Bentonite (5%) /

Material: Cement Grout Interval: from 0 to 95 ft

Remarks

Screened interval of casing was drilled out with augers.

Well 35019

Prepared by: L. Indergard

TASK 37 - WELL CLOSURE LOG

Well # 35024 Reported Depth: 58 (ft)
Observed Casing at Surface: 1/4 (in) thick, 2 (in) diameter
Location: NE 1/4 of the SE 1/4 of the sec
T 2S, R, 67W, 6th pm
State Planar Coordinates: N 182,723, E 2,183,527
Drilling/Well Closure Contractor: Custom Auger Drilling, Inc.
Closure Dates: 08-22-88 to 08-23-88

WELL CLOSURE PROCEDURES/INFORMATION

Clean-Out

Equipment Used: CME 55 Rig, 8 in. Hollow Stem Auger

Depth of Clean-out Achieved: 32 ft.

Reason for discontinuing Clean-out at depth listed above:

 Refusal/probable blockage

 At probable original TD of well based on drilling information

 Both of the above

 X Other, (explain): Deviation of PVC caused a divergence of the augers with the borehole. The last 26 feet of PVC was not recoverable

Geophysical Logs Run yes X no

Contractor: N/A.

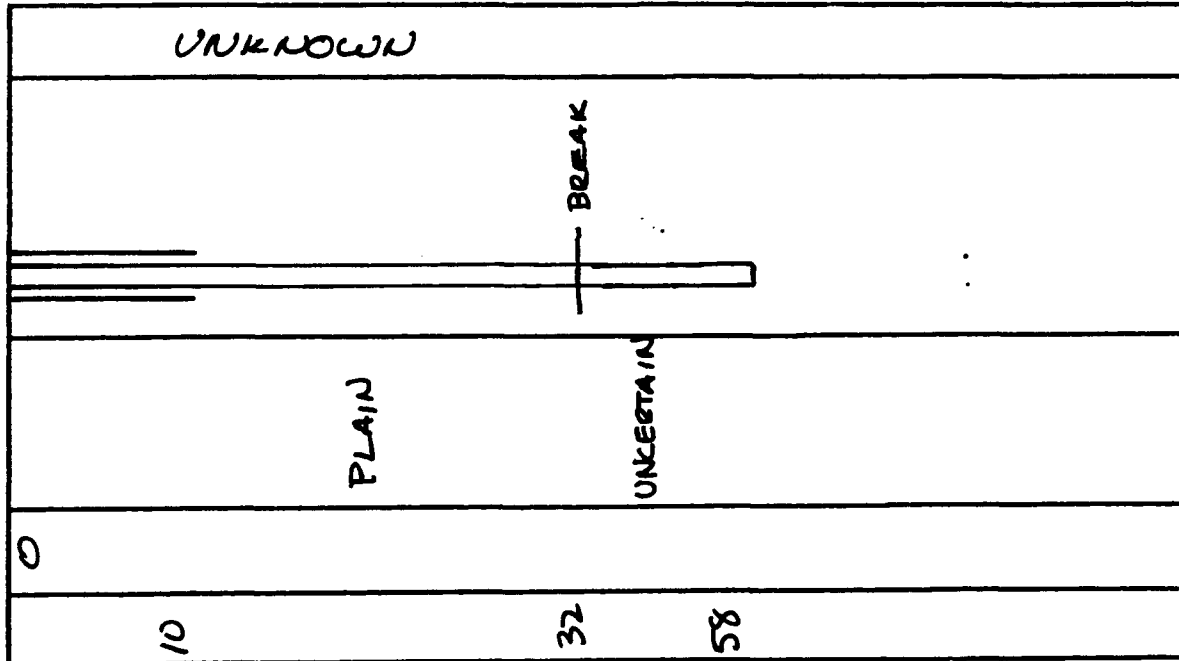
Types of Logs Run: N/A

Logging interval: N/A ft to N/A ft

Approximate Construction Details of Well based on information obtained during clean-out and from geophysical logs.

Casing Type

To From Plain Perforated Uncertain Schematic Diagram Water Loc.



1021

Well Development (performed only at wells to be sampled prior to closure)

Contractor: N/A

Date: N/A Method(s): N/A

Casing Removed from Well

Per-
forated

X	Size 8 & kind PVC from 0 to 10 ft
X	Size 2 & kind PVC from 0 to 32 ft
	Size & kind from to ft
	Size & kind from to ft

Amount & Location of Casing Left in Well

Amount 26 ft Interval: from 32 to 58 ft

Plain - Perforated - Uncertain (circle one) Size: 2

Method of Parting this Casing from that Removed from Well: PVC

deviated from vertical augers

Perforations Imparted to Casing Left in Well

Method(s): none

Interval: from to ft

Interval: from to ft

Plugging Bentonite (5%)/

Material: Cement Grout Interval: from 0 to 58 ft

Remarks

PVC remaining in hole was filled with cement.

Well 35024

Prepared by: L. Indergard

TASK 37 - WELL CLOSURE LOG

Well # 35049 Reported Depth: 70 (ft)
Observed Casing at Surface: 1/4 (in) thick, 2 (in) diameter
Location: SE 1/4 of the NW 1/4 of the sec
T 2S, R, 67W, 6th pm
State Planar Coordinates: N 184,166, E 2,179,706
Drilling/Well Closure Contractor: Custom Auger Drilling, Inc.
Closure Dates: 08-24-88 to 08-25-88

WELL CLOSURE PROCEDURES/INFORMATION

Clean-Out

Equipment Used: CME 55 Rig, 12 in. Hollow Stem Augers

Depth of Clean-out Achieved: 71 ft.

Reason for discontinuing Clean-out at depth listed above:

- ☐ Refusal/probable blockage
☒ At probable original TD of well based on drilling information
☐ Both of the above
☐ Other, (explain):

Geophysical Logs Run ☐ yes ☒ no

Contractor: N/A

Types of Logs Run: N/A

Logging interval: N/A ft to N/A ft

Approximate Construction Details of Well based on information obtained during clean-out and from geophysical logs.

Casing Type

To From Plain Perforated Uncertain Schematic Diagram Water Loc.

25	35	70	PLAIN	PERF.	UNKNOWN
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Well Development (performed only at wells to be sampled prior to closure)

Contractor: N/A

Date: N/A Method(s): N/A

Casing Removed from Well

Plain Perforated

X	Size 8 & kind PVC from 0 to 35 ft
X	Size 2 & kind PVC from 0 to 25 ft
X	Size 2 & kind PVC from 25 to 70 ft
	Size & kind from to ft

Amount & Location of Casing Left in Well

Amount 12 ft Interval: from 58 to 70 ft

Plain - Perforated - Uncertain (circle one) Size: 2

Method of Parting this Casing from that Removed from Well: unknown

Perforations Imparted to Casing Left in Well

Method(s): none

Interval: from to ft

Interval: from to ft

Plugging Bentonite (5%)/

Material: Cement Grout Interval: from 0 to 65 ft

Remarks

No PVC was recovered below 58 feet. The hole accepted 65 feet of A-Rods through which the cement was tremied.

Well 35049

Prepared by: L. Indergard