1R - 151

REPORTS

DATE:

08-1984

FUQUA WATER STUDY
West Lovington

New Mexico Oil Conservation Division
Post Office Box 1980
Hobbs, New Mexico 88240

Eddie W. Seay
Field Representative II
Oil Conservation Division
August, 1984

A P P E N D I X

Location Plat and Redbed Map

Results of Survey

General Statistics of Survey

Daily Field Reports

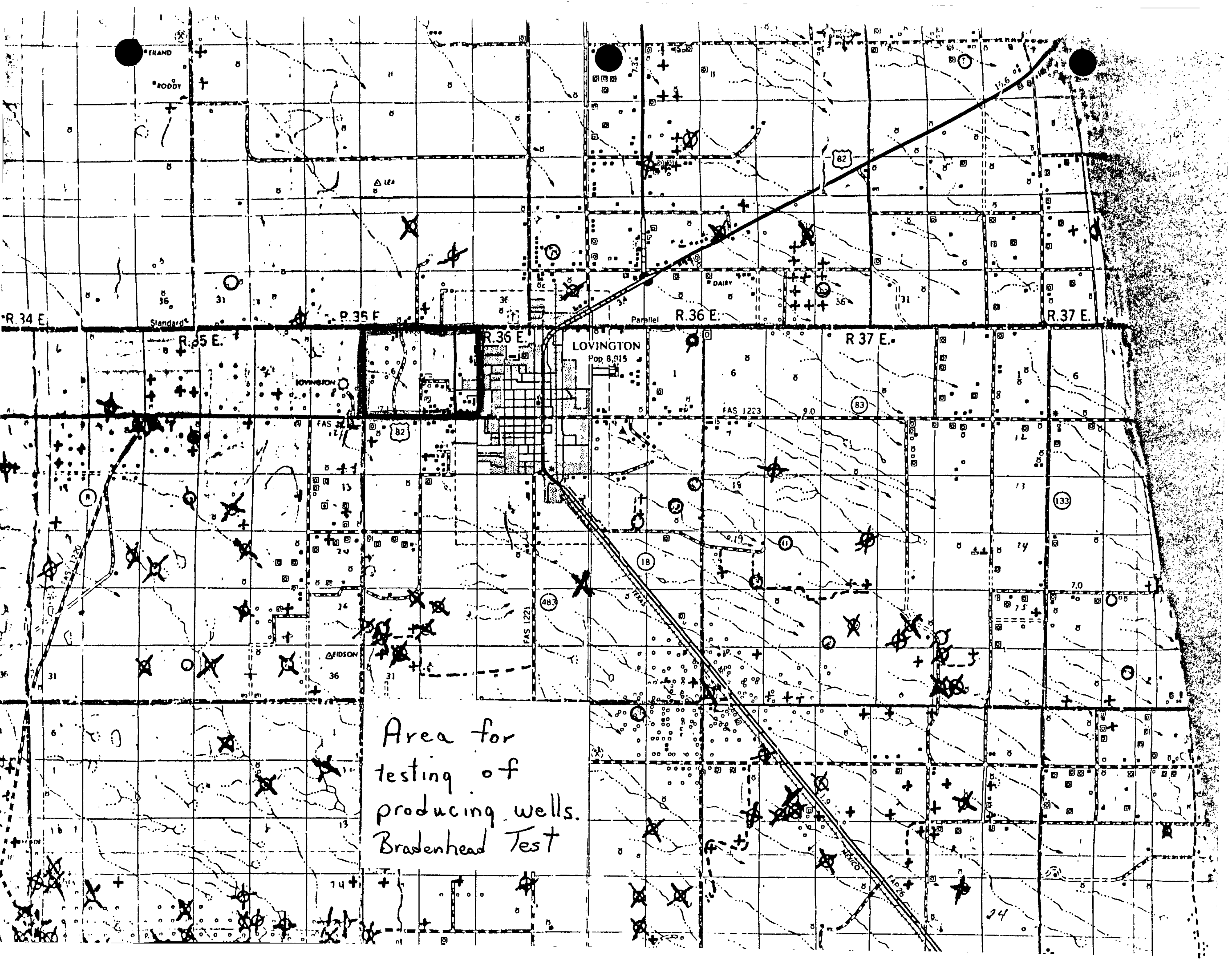
Water Analysis

Drillers' Logs

Maps. . .(1) Area of Study

(2) Redbed Map - State Engineer's

(3) Results Map


LOVINGTON
Pop 8,915
R.34 E.
R.35 E.
R.36 E.
R 37 E.
R.37 E.
Standard
Parallel
DAIRY
EIDSON
LEA
ERAND
RODDY
FAS 1223
FAS 1221
FAS 1220
TEXAS
MEXICO
FAP26
82
83
133
18
483
Area for
testing of
producing wells.
Bradenhead Test

FUQUA WATER STUDY

Mr. Sexton of the Oil Conservation Division field office in Hobbs, New Mexico, was first contacted January 30, 1984, about an apparent bad water well belonging to Mrs. Fuqua, located in the extreme northwest edge of Lovington, Lea County, New Mexico.

A field investigation was made the same day and water samples taken. Fuqua water well analysis showed 2130 ppm chloride. Water samples were collected from surrounding domesitc wells in Sections 5 and 6, Township 16 South, Range 36 East, to the north, south, east, and west of the Fuqua well. All water analysis showed excellent chloride quality. During the field investigation it was noted that just to the west and north of the Fuqua well in Section 6 there was a number of open pits, which were used for disposal of produced water prior to the no pitting order of 1969. After our investigation, it was assumed that the contaminant came from either the pits or a casing leak from surrounding producing wells.

A casing leak survey was set up and testing was done February 22, 1984, on all producing oil wells in Sections 5 and 6, T16S, R36E. The survey covered 8 wells belonging to Charles Gillespie Oil Company and 4 wells belonging to Sun Oil Company. Results of casing leak survey indicated no casing leaks in the area.

After considering information gathered from water analysis and the casing leak survey it was felt the probable source of contamination came from abandoned surface pits in the area. Due to the location of the contaminated area and the direction of the water flow, which is southeast, and the possibility that a number of individually owned water wells which could be contaminated in the future, the OCD personnel decided to do test well drilling to determine the source of contamination,

the area affected, and the possible effects of the contaminant in the future.

Test well drilling began August 15, 1984, with a total of 7 wells drilled and tested. All test well locations were selected on the basis of the following information, redbed depths, direction of water movement, chloride analysis, and topographical structure. The selections were agreed upon by Jerry Sexton, District Supervisor and Eddie W. Seay, Field Rep.

Test well #1 was selected halfway between the closest surface pit located approximately 1300 feet northwest of the contaminated well. Test was done by drilling into water sand formation or to redbed formation , which is an impermeable zone located below fresh water sand. Testing in all wells had to be done by running PVC casing into the hole because the water sand formation was so unconsolidated the wellbore would not hold up under normal testing procedures. Sampling was done by running drill pipe into PVC casing, jetting air into cased hole, forcing water to come to surface where water samples were gathered and analysed. The PVC casing was pulled and well was plugged. Samples were gathered every ten to fifteen minutes and chloride content was analysed on-site until a stabilized chloride content had been reached. Test well #1 was drilled to 137 feet which was redbed, it was cased with 5" PVC pipe with perforations from 127 to 137 feet. A total of 8 samples were taken before a stabilized chloride content of 31,000 ppm was reached. From this point it was decided to move north and south to determine the size of the plume.

In test well #2, located approximately 250 feet northeast of test well #1, it was decided to test the water formation on top and bottom to see what kind of mixing effect it had on all the water formation.

Test well #2 was drilled to 85 feet and 5" PVC casing was run with perforations from 60 to 80 feet since the top of the water formation was at approximately 62 feet in this area. Water samples were jetted from well and analysed. The chloride content stabilized at 71 ppm in this well. The PVC casing was pulled from the well and well was drilled on to the redbed formation which was 143 feet. Then 5" PVC casing was re-run to bottom with perforations from 123 to 143 feet and water samples were obtained by jetting and the samples analysed. The chloride content stabilized at 18,500 ppm.

Test well #3 was located 250 feet south by southeast of test well #1. This location was selected to determine the southern most boundary of the water contamination plume. First drilled to a depth of 80 feet and ran 5" PVC casing to bottom with perforations from 60 to 80 feet. Samples were jetted to surface and analysed for chloride content which was found to be 71 ppm. The PVC casing was then pulled and well was drilled on to redbed formation which was 139 feet. The 5" PVC casing was run to bottom with perforations from 119 to 139 feet testing the lower water sand formation. Samples were jetted to surface and analysed. A total of 5 samples were tested with a maximum chloride content of 52.6 ppm. The drilling of this well showed the south boundary of the contamination plume.

Test well #4 was drilled approximately 200 feet northwest of surface pit. The selection of this site was made so that we could tie the source of contamination to the surface pit, since the test well was directly in line with the direction of water flow and any other contamination source. It was decided to drill only to the redbed and test the water at lowermost water sand formation which would give the highest chloride content. Well #4 was drilled to redbeds at 125' and cased with 5" PVC casing with perforations from 105 to 125 feet. Samples were analysed

and the chloride content was found to be 127 ppm. The results of this well confirmed the contamination source to the pit.

Test well #5 was drilled to determine the saturation level of the contaminant on the total water sand formation from 62 feet to redbeds. This well was located approximately 150 feet southeast of test well #1, in line with the contaminated water. Only the upper portion of the water formation was tested since we had analysis from test well #1 which reflected the chloride content on bottom. Test well #5 was drilled to 100 feet and 5" PVC casing was run to bottom with perforations from 80 to 100 feet and water tested. A total of 6 samples were collected and analysed with a maximum chloride content of 99.4 ppm.

Test well #6 was drilled on the extreme southwest corner of the Fuqua property approximately 150 feet south of the contaminated water well. The location for this site was selected because it was the furtherest point from the septic system and the contaminated well. The well will be used to test the top water sand to check the availability and quality of the water for the new well. Test well #6 was drilled to 100 feet, cased with 5" PVC pipe with perforations from 80 to 100 feet. The samples were tested and were found to have a chloride content of 56.8 ppm. With the results of this well there can and will be a new water well drilled and completed.

Test well #7 was drilled north of test well #2 approximately 300 feet. This selection was made so the area of contamination or plume could be defined. Test well #7 was drilled to redbeds at 151 feet and was cased with 5" PVC casing with perforations from 131 to 151 feet. Water samples were collected and analysed having a maximum of 71 ppm chloride. This defined the north edge of the contamination area.

The last point of testing was the Fuqua contaminated well, which is located in Section 5, T16S, R36E, approximately 75 feet from the west

line and 1300 feet from the surface pit. The well was drilled in December 1983 to a total depth of 126 feet and was cased with 5" PVC casing with perforations from 116 to 126 feet having pump set at 124 feet. Water samples were collected and analysed, with a chloride content of 1600 ppm.

SUMMARY

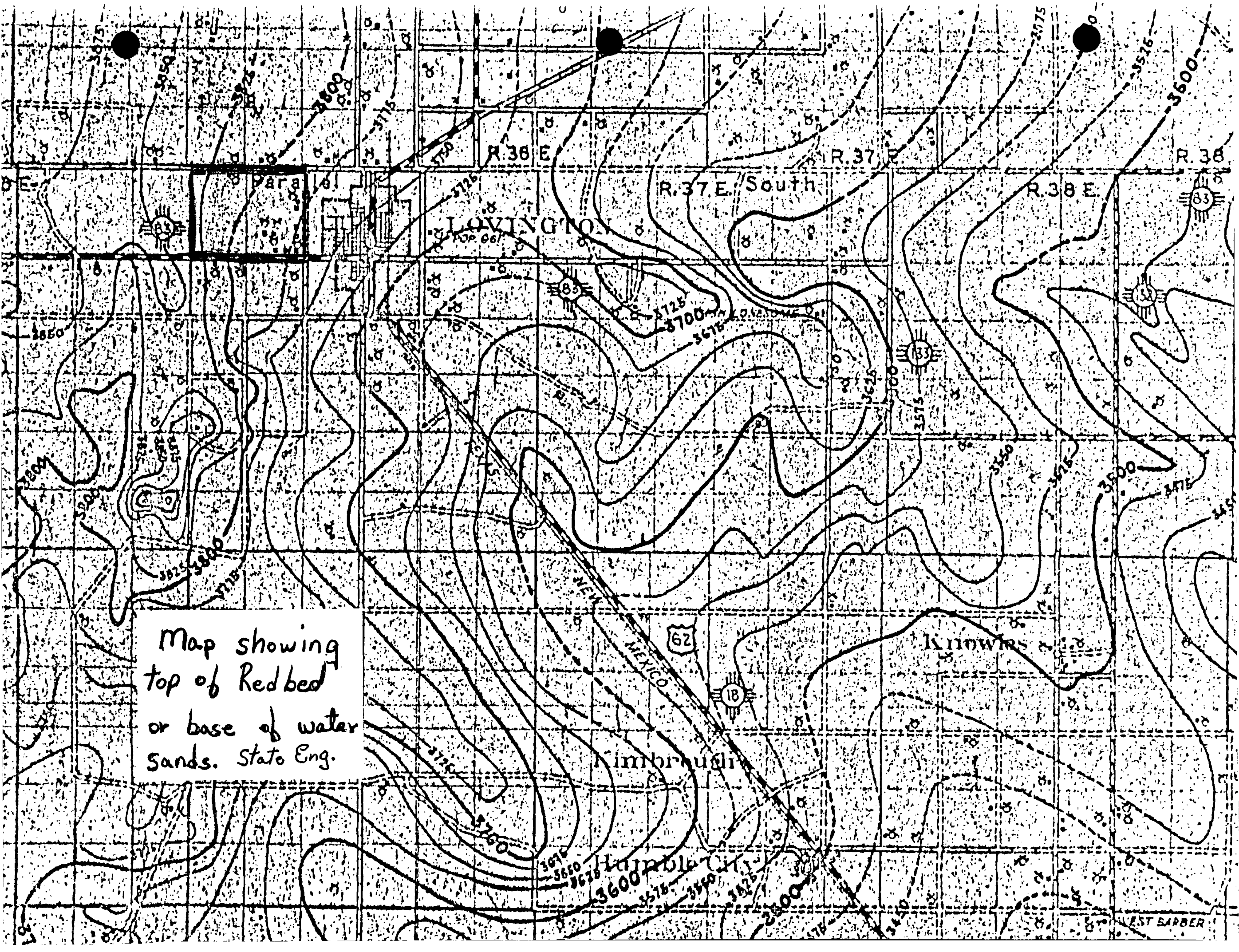
From the information gathered from test well drilling at a cost of approximately $11,000, we feel the contamination did come from the surface pit at the Charles Gillespie Oil Company Snyder Battery, which was used before the no pit order was issued by the State of New Mexico in 1969. Also, our study showed that the contaminant is either moving extremely slow or laying idle in a redbed low depression. This redbed low depression is an impermeable layer of clay located below our fresh water formation. Our findings show a depression approximately 25 feet deep covering an area 1300 feet east and west by 400 feet north and south. From the testing of water sands at various levels, we find that salt water contamination has a segregating effect, whereas the heavier contaminant lays on top of the redbed area and along the lowermost portion of the water formation. We feel, had the Fuqua water well not been drilled to 126 feet and perforated to 116 feet, the contamination would not have been detected. We feel that the time and money spent on drilling and testing by the OCD and the State of New Mexico was of great value in relieving worry and possible contamination in the future, for the citizens of Lovington, New Mexico.

From the testing on this water study some new information has been found. In the past, test on contamination problems were done only on the lowermost portion of the water formation and was believed that the entire water strata was affected. By testing the water formation at different levels we have found you can have productive, usable water

in a contaminated area. We feel that additional funding and testing of our fresh water aquifer in known contaminated areas would be of great value to protect such a valuable and necessary resource.

Mr. Charles B. Gillespie, owner of Gillespie Oil Company purchased the property from Austral Oil Corporation just prior to the no pit order in 1969. The pits have not been used by Gillespie Oil Company and have since been removed from the area.

Even though Gillespie Oil Company was not directly responsible, they were greatly concerned with the Fuqua water well. Charles Gillespie, while working closely with the OCD, agreed to drill a replacement well for the Fuqua family. A replacement well was drilled in the extreme southwest corner of the Faqua property re-entering test well #6. The well was drilled with a 12" bit to 100 feet, cased with 5" PVC casing with perforations from 60 to 100 feet. A good 7" of gravel packing was used and a new water well pump installed. All connections were made and water tested with a chloride content of 56.8 ppm. Through conversations with Mrs. Fugua and later testing of the well, it has been determined that the water quality of this well is excellent to date.


Map showing top of Red bed or base of water sands. State Eng.
R.38 E.
R.37 E.
R.37 E. South
R.38 E.
Parallel
LOVINGTON
POP. 661
NEW MEXICO
Knowles
Humble City
3600
3700
3800
3760
3500

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

Well Ownership: Mrs. Fuqua Well No. _____

Land Status: State ____ Federal ____ Fee X

Well Location: Unit Letter ____, Section 5, T 16 S, R 36 E

Type Well: water well Depth 126 feet.

Well Use: domestic

Sample Number: _____ Date Taken: 2-2-84

Taken By: Eddie W. Seay

Specific Conductance: _____ m/m

Total dissolved Solids: _____ PPM.

Chlorides: 1,597.5 PPM.

Sulfates: _____ PPM.

Ortho-phosphates: ☐ V.Low ☐ Low ☐ Medium ☐ High

Sulfides: ☐ None ☐ Low ☐ Medium ☐ High

_____ : _____

Date Analyzed: 2-2-84 By: Eddie W Seay - Eddie Seay
Oil Conservation Division

REMARKS: 10 ml 355 x 4.5 = 1,597.5 ppm Cl - sample was taken after pumping well for 30 mins.

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

Well Ownership: Mr. Fuqua Well No. _____

Land Status: State ____ Federal ____ Fee X

Well Location: Unit Letter ____, Section 5, T 16 S, R 36 E

Type Well: water well Depth 126 feet.

Well Use: domestic

Sample Number: _____ Date Taken: 2-2-84

Taken By: Eddie Seay

Specific Conductance: _____ m/m

Total dissolved Solids: _____ PPM.

Chlorides: 1,491 PPM.

Sulfates: _____ PPM.

Ortho-phosphates: ☐ V.Low ☐ Low ☐ Medium ☐ High

Sulfides: ☐ None ☐ Low ☐ Medium ☐ High

_____ : _____

Date Analyzed: 2-2-84 By: Eddie Seay - Eddie Seay
Oil Conservation Division

REMARKS: 10 ml 355 x 4.2 = 1,491 ppm Cl - sample taken after 4 hrs of pumping.

WATER ANALYSIS
Sec 6 & 5 T16S, R36E
February 1, 1984

1. Joe Fuqua -- 10 ml 355 x 4.5 = 1597.5 ppm chlorides

2. Bissetts Ranch House -- 25 ml 142 x .5 = 71 ppm chlorides

3. Archie Byrd -- 25 ml 142 x .4 = 56.8 ppm chlorides

4. Wayne Velar -- 25 ml 142 x .4 = 56.8 ppm chlorides

5. Mr. Bailey -- 25 ml 142 x .4 = 56.8 ppm chlorides

6. Fannie Smith -- 25 ml 142 x .3 = 42.6 ppm chlorides

7. Bryant Pope -- 25 ml 142 x .3 = 42.6 ppm chlorides

8. Don Pebsworth -- 25 ml 142 x .5 = 71 ppm chlorides

9. Lovington Airport -- 25 ml 142 x .5 = 71 ppm chlorides

10. Carlton Pope -- 25 ml 142 x .4 = 56.8 ppm chlorides

11. Stroup -- 25 ml 142 x .5 = 71 ppm chlorides

NEW MEXICO OIL CONSERVATION COMMISSION
FIELD TRIP REPORT

Name Eddie W. Seay Date 8-15-84 Miles 56 District 1

Time of Departure 7:00 a.m. Time of Return 7:00 p.m. Car No. 736

In the space below indicate the purpose of the trip and the duties performed, listing wells or leases visited and any action taken.

Signature Eddie W Seay

IFICATION	ILITY	JURS	QUARTER HOURS
W O	O	12	

1 well - West Lovington area to drill test wells on water contamination study - Fuqua area - test well #F-1 - located 660' FEL & 4160' FNL - 6-16-36

#F-1 drill to Red Beds - 137 TD-139
test water by jetting water smaples

sample #1 - 23572 ppm
#2 - 26838 ppm
#3 - 28542 ppm
#4 - 30388 ppm
#5 - 30388 ppm
#6 - 30333 ppm

shut down - will retest in a.m.

Mileage	Per Diem	Hours
UIC	UIC	UIC
RFA	RFA	RFA
Other 56	Other 13.00	Other 12

TYPE INSPECTION PERFORMED

H = Housekeeping
P = Plugging
C = Plugging Cleanup
T = Well Test
R = Repair/Workover
F = Waterflow
M = Mishap or Spill
W = Water Contamination
O = Other

INSPECTION CLASSIFICATION

U = Underground Injection Control - Any inspection of or related to injection project, facility, or well or resulting from injection into any well. (SWD, 2ndry injection and production wells, water flows or pressure tests, surface injection equipment, plugging, etc.)
R = Inspections relating to Reclamation Fund Activity
O = Other - Inspections not related to injection or The Reclamation Fund

E = Indicates some form of enforcement action taken in the field (show immediately below the letter U, R or O)

NATURE OF SPECIFIC WELL OR FACILITY INSPECTED

D = Drilling
P = Production
I = Injection
C = Combined prod. inj. operations
S = SWD
U = Underground Storage
G = General Operation
F = Facility or locatio
M = Meeting
O = Other

NEW MEXICO OIL CONSERVATION COMMISSION
FIELD TRIP REPORT

Name Eddie W. Seay Date 8-16-84 Miles 84 District 1

Time of Departure 7:00 a.m. Time of Return 7:00 p.m. Car No. 736

In the space below indicate the purpose of the trip and the duties performed, listing wells or leases visited and any action taken.

Signature Eddie W. Seay

INSPECTION	FACILITY	HOURS	QUARTER HOURS	
WO	O	10		2 wells - West Loving - Fuqua Contamination Study re-test F-1 Sample #7 - 31950 Sample #8 - 32600 pull PVC - move rig to F-2 - plug well & cleanup location F-2 located 450' FEL & 3850' FNL S-6-16-36 - will drill top water sand and test. - drill to 85' - perf 20' of PVC - test water - pump fine sand 2 1/2 hrs. after water came in - collect water samples every 20 mins. #1 - 71 ppm #2 - 71 ppm #3 - 56.8 ppm #4 - 71 ppm
WO	F	2		1 other - Lovington area to meet w/Mr. Don Hamm w/Southern Union Refinery - rain had washed oil onto ground around area - will cleanup & report.

Mileage		Per Diem		Hours	
UIC		UIC		UIC	
RFA		RFA		RFA	
Other	84	Other	13.00	Other	12

TYPE INSPECTION PERFORMED

H = Housekeeping
P = Plugging
C = Plugging Cleanup
T = Well Test
R = Repair/Workover
F = Waterflow
M = Mishap or Spill
W = Water Contamination
O = Other

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NATURE OF SPECIFIC WELL OR FACILITY INSPECTED

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P = Production
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C = Combined prod. inj. operations
S = SWD
U = Underground Storage
G = General Operation
F = Facility or locatic
M = Meeting
O = Other

NEW MEXICO OIL CONSERVATION COMMISSION
FIELD TRIP REPORT

Name Eddie Seay Date 8-17-84 Miles 49 District 1

Time of Departure 7:00 a.m. Time of Return 7:00 p.m. Car No. 7360

In the space below indicate the purpose of the trip and the duties performed, listing wells or leases visited and any action taken.

Signature Eddie W Seay

IFICATION	ILITY	URS	QUARTER HOURS
0	0	12	

2 wells - Lovington area to drill test wells on Fuqua contamination study - well #F-2 6-16-36 - pull PVC pipe - run bit and drill to Red Beds & test Red Beds - 143', TD - 145' run PVC w/20' of perf. on bottom - jet load water & sand & test every 20 mins.

Sample #1 - 710 x 14.8 = 10,508 ppm
Sample #2 - 3550 x 5.0 = 17,750 ppm
Sample #3 - 3550 x 5.1 = 18,105 ppm
Sample #4 - 3550 x 5.2 = 18,460 ppm
Sample #5 - 3550 x 5.2 = 18,460 ppm
Sample #6 - 3550 x 5.2 = 18,460 ppm
Sample #7 - 3550 x 5.2 = 18,460 ppm

Pull PVC - rig down - plug & move to F-3

F-3 440' FEL & 4450' FNL - drill to 80' to test top water sand - run 5" PVC w/20' perf. - run pipe & jet water & sand - let set overnight & test.

Mileage		Per Diem		Hours	
UIC		UIC		UIC	
RFA		RFA		RFA	
Other	49	Other	13.00	Other	12

TYPE INSPECTION PERFORMED

H = Housekeeping
P = Plugging
C = Plugging Cleanup
T = Well Test
R = Repair/Workover
F = Waterflow
M = Mishap or Spill
W = Water Contamination
O = Other

INSPECTION CLASSIFICATION

U = Underground Injection Control - Any inspection of or related to injection project, facility, or well or resulting from injection into any well. (SWD, 2ndry injection and production wells, water flows or pressure tests, surface injection equipment, plugging, etc.)
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E = Indicates some form of enforcement action taken in the field (show immediately below the letter U, R or O)

NATURE OF SPECIFIC WELL OR FACILITY INSPECTED

D = Drilling
P = Production
I = Injection
C = Combined prod. inj. operations
S = SWD
U = Underground Storage
G = General Operation
F = Facility or location
M = Meeting
O = Other

NEW MEXICO OIL CONSERVATION COMMISSION
FIELD TRIP REPORT

Name Eddie Seay Date 8-18-84 Miles 60 District

Time of Departure 6:00 a.m. Time of Return 2:00 p.m. Car No.

In the space below indicate the purpose of the trip and the duties performed, listing wells or leases visited and any action taken.

Signature Eddie W Seay

IFICATION	ILITY	OURS	QUARTER HOURS
W	O	8	

1 well - Lovington Area to drill test well on Fuqua contamination study - F-3 - start jetting water to sample - sampling 20 mins. apart.

Sample # 1 - .5 x 142 = 71 ppm
Sample #2 - .5 x 142 = 71 ppm
Sample #3 - .5 x 142 = 71 ppm
Sample #4 - .5 x 142 = 71 ppm

pull pipe & PVC - drill to red bed & test Redbeds 139 TD 140 run PVC w/20' perf. on bottom and test:

Sample #1 - .3 x 142 = 42.6 ppm
Sample #2 - .3 x 142 = 42.6 ppm
Sample #3 - .3 x 142 = 42.6 ppm
Sample #4 - .3 x 142 = 42.6 ppm
Sample #5 - .3 x 142 = 42.6 ppm

will leave 5" PVC in hole - to monitor - rig down - move to F-4

Mileage	Per Diem	Hours
UIC	UIC	UIC
RFA	RFA	RFA
Other 60	Other 6.00	Other 8

TYPE INSPECTION PERFORMED

H = Housekeeping
P = Plugging
C = Plugging Cleanup
T = Well Test
R = Repair/Workover
F = Waterflow
M = Mishap or Spill
W = Water Contamination
O = Other

INSPECTION CLASSIFICATION

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O = Other - Inspections not related to injection or The Reclamation Fund

E = Indicates some form of enforcement action taken in the field (show immediately below the letter U, R or O)

NATURE OF SPECIFIC WELL OR FACILITY INSPECTED

D = Drilling
P = Production
I = Injection
C = Combined prod. inj operations
S = SWD
U = Underground Storag
G = General Operation
F = Facility or locati
M = Meeting
O = Other

NEW MEXICO OIL CONSERVATION COMMISSION
FIELD TRIP REPORT

Name Eddie W. Seay Date 8-20-84 Miles 64 District 1

Time of Departure 7:00 a.m. Time of Return 4:00 p.m. Car No. 73

In the space below indicate the purpose of the trip and the duties performed, listing wells or leases visited and any action taken.

Signature Eddie W Seay

SECTION	CILITY	HOURS	QUARTER HOURS
W			
0	0	12	

1 well - Lovington area to drill test well on Fuqua contamination study - F-4 3400' FSL & 835' FEL - 6-16-36 - drill to redbed & test

Red Beds 125 TD 127
run 5" PVC pipe w/20' of perf. on bottom & test - pump well approx. 3 1/2 hrs. trying to get water to come in, then catch sample every 20 mins.

Sample #1 - .9 x 142 = 127.8 ppm
Sample #2 - .8 x 142 = 113.6 ppm
Sample #3 - .8 x 142 = 113.6 ppm
Sample #4 - .7 x 142 = 99.4 ppm
Sample #5 - .8 x 142 = 113.4 ppm

shut in overnight & catch samples.

Mileage	Per Diem	Hours
UIC	UIC	UIC
RFA	RFA	RFA
Other 64	Other 13.00	Other 12

TYPE INSPECTION PERFORMED
H = Housekeeping
P = Plugging
C = Plugging Cleanup
T = Well Test
R = Repair/Workover
F = Waterflow
M = Mishap or Spill
W = Water Contamination
O = Other

INSPECTION CLASSIFICATION
U = Underground Injection Control - Any inspection of or related to injection project, facility, or well or resulting from injection into any well. (SWD, 2ndry injection and production wells, water flows or pressure tests, surface injection equipment, plugging, etc.)
R = Inspections relating to Reclamation Fund Activity
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E = Indicates some form of enforcement action taken in the

NATURE OF SPECIFIC WELL OR FACILITY INSPECTED
D = Drilling
P = Production
I = Injection
C = Combined prod. inj. operations
S = SWD
U = Underground Storage
G = General Operation
F = Facility or locatio
M = Meeting

NEW MEXICO OIL CONSERVATION COMMISSION
FIELD TRIP REPORT

Name Eddie W. Seay Date 8-21-84 Miles 56 District 1

Time of Departure 7:00 a.m. Time of Return 7:00 p.m. Car No. 736

In the space below indicate the purpose of the trip and the duties performed, listing wells or leases visited and any action taken.

Signature Eddie W. Seay

LOCATION	FACILITY	HOURS	QUARTER HOURS
0	0	12	

2 wells - Lovington area to drill and test water wells on Fuqua contamination study:

Catch sample from F-4 6-16-36
Sample #6 - .9 x 142 = 127.8 ppm
pull pipe & PVC - plug well and move to F-5 550' FEL & 4200" FNL - 6-16-36 - drill to water sand at 100' and test run 5" PVC w/20' perf. on bottom - blow out load water & test well every 20 mins. -

Sample #1 - .8 x 142 = 113.6 ppm
Sample #2 - .8 x 142 = 113.6 ppm
Sample #3 - .7 x 142 = 99.4 ppm
Sample #4 - .7 x 142 = 99.4 ppm
Sample #5 - .7 x 142 = 99.4 ppm
Sample #6 - .7 x 142 = 99.4 ppm

Pull PVC - rig down - move to F-6

Mileage	Per Diem	Hours
UIC	UIC	UIC
RFA	RFA	RFA
Other 56	Other 13.00	Other 12

TYPE INSPECTION PERFORMED

H = Housekeeping
P = Plugging
C = Plugging Cleanup
T = Well Test
R = Repair/Workover
F = Waterflow
M = Mishap or Spill
W = Water Contamination
O = Other

INSPECTION CLASSIFICATION

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E = Indicates some form of enforcement action taken in the

NATURE OF SPECIFIC WELL OR FACILITY INSPECTED

D = Drilling
P = Production
I = Injection
C = Combined prod. inj operations
S = SWD
U = Underground Storag
G = General Operation
F = Facility or locati
H = Hauling
O = Other

NEW MEXICO OIL CONSERVATION COMMISSION
FIELD TRIP REPORT

Name Eddie W. Seay Date 8-22-84 Miles 57 District 1

Time of Departure 7:00 a.m. Time of Return 6:00 p.m. Car No. 7

In the space below indicate the purpose of the trip and the duties performed, listing wells or leases visited and any action taken.

Signature Eddie W Seay

SIGNIFICATION	CILITY	OURS	QUARTER HOURS
W	0	11	

1 well - Lovington Area to drill test well on Fuqua contamination study - test well F-6 50'FWL 4500" FNL - 5-16-36 - on SW Corner of Fuqua property:

drill to 100' - run 5" pvc w/20' of perf. on bottom - blow hole test water every 20 mins. - Her existing well 1420 ppm Cl.

Sample #1 - .5 x 142 = 71 ppm
Sample #2 - .4 x 142 = 56.8 ppm
Sample #3 - .4 x 142 = 56.8 ppm
Sample #4 - .4 x 142 = 56.8 ppm
Sample #5 - .4 x 142 = 56.8 ppm

Will re-drill to complete water well.

Mileage		Per Diem		Hours	
UIC		UIC		UIC	
RFA		RFA		RFA	
Other	57	Other	6.00	Other	11

TYPE INSPECTION PERFORMED

H = Housekeeping
P = Plugging
C = Plugging Cleanup
T = Well Test
R = Repair/Workover
F = Waterflow
M = Mishap or Spill
W = Water Contamination
O = Other

INSPECTION CLASSIFICATION

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R = Inspections relating to Reclamation Fund Activity
O = Other - Inspections not related to injection or The Reclamation Fund

NATURE OF SPECIFIC WELL OR FACILITY INSPECTED

D = Drilling
P = Production
I = Injection
C = Combined prod. inj. operations
S = SWD
U = Underground Storage
G = General Operation
F = Facility or locatio

NEW MEXICO OIL CONSERVATION COMMISSION
FIELD TRIP REPORT

Name Eddie Seay Date 8-25-84 Miles 76 District 1

Time of Departure 6:00 a.m. Time of Return 1:00 p.m. Car No. 7

In the space below indicate the purpose of the trip and the duties performed, listing wells or leases visited and any action taken.

Signature Eddie W Seay

LOCATION	FACILITY	HOURS	QUARTER HOURS
WO	0	6	

1 well - Lovington area - to drill test wells on Fuqua water study - well #F-7 - 3450' FNL & 450' FEL - drill to red beds and test water - red bed-151 - TD-153 - run 5" PVC & test:

Sample #1 - .4 x 142 = 56.8 ppm
Sample #2 - .5 x 142 = 71 ppm
" #3 - .5 x 142 = 71 "
" #4 - .5 x 142 = 71 "
" #5 - .5 x 142 = 71 "
" #6 - .5 x 142 = 71 "

Mileage	Per Diem	Hours
UIC	UIC	UIC
RFA	RFA	RFA
Other 76	Other 6.00	Other 6

TYPE INSPECTION PERFORMED

H = Housekeeping
P = Plugging
C = Plugging Cleanup
T = Well Test
R = Repair/Workover
F = Waterflow
M = Mishap or Spill
W = Water Contamination
O = Other

INSPECTION CLASSIFICATION

U = Underground Injection Control - Any inspection of or related to injection project, facility, or well or resulting from injection into any well. (SWD, 2ndry injection and production wells, water flows or pressure tests, surface injection equipment, plugging, etc.)
R = Inspections relating to Reclamation Fund Activity
O = Other - Inspections not related to injection or The Reclamation Fund
E = Indicates some form of enforcement action taken in the

NATURE OF SPECIFIC WE OR FACILITY INSPECTE

D = Drilling
P = Production
I = Injection
C = Combined prod. in operations
S = SWD
U = Underground Store
G = General Operation
F = Facility or locat
M = Meeting
O = Other

Well #1

Revised June 1972

STATE ENGINEER OFFICE

WELL RECORD

Section 1. GENERAL INFORMATION

(A) Owner of well NM Oil & Conservation Division Owner's Well No. _____
Street or Post Office Address P.O.Box 1980
City and State Hobbs, NM 88240

Well was drilled under Permit No. L-9500 and is located in the:

a. _____ ¼ _____ ¼ _____ ¼ _____ ¼ of Section 5 Township 16S Range 36E N.M.P.M.

b. Tract No. _____ of Map No. _____ of the _____

c. Lot No. _____ of Block No. _____ of the _____
Subdivision, recorded in _____ Lea _____ County.

d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in the _____ Grant.

(B) Drilling Contractor Larry's Drilling License No. WD0823

Address 2601 W. Bender, Hobbs, NM 88240

Drilling Began 8-31-84 Completed 8-31-84 Type tools Triconc Size of hole 7 7/8 in.

Elevation of land surface or _____ at well is _____ ft. Total depth of well 139 ft.

Completed well is ☒ shallow ☐ artesian. Depth to water upon completion of well 59 ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet From	Depth in Feet To	Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
60	124	64	sand & sandstone	

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet Top	Depth in Feet Bottom	Length (feet)	Type of Shoe	Perforations From	Perforations To
5	160PVC		-1	139	140			
	pulled casing & plugged hole							

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet From	Depth in Feet To	Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement

Section 5. PLUGGING RECORD

Plugging Contractor _____
Address _____
Plugging Method _____
Date Well Plugged _____
Plugging approved by:

_____
State Engineer Representative

No.	Depth in Feet Top	Depth in Feet Bottom	Cubic Feet of Cement
1			
2			
3			
4			

FOR USE OF STATE ENGINEER ONLY

Date Received

Quad _____ FWL _____ FSL _____

File No. _____ Use _____ Location No. _____

Section 6. LOG OF HOLE

Depth in Feet From	Depth in Feet To	Thickness in Feet	Color and Type of Material Encountered
0	4	4	topsoil
4	8	4	gray clay
8	36	28	caliche
36	46	10	hard white rock
36	92	36	sand & sandstone
92	95	3	sandstone
95	124	29	sand, thin layers of sandstone, gravel
124	137	13	sand & clay, little gravel
137	139	2	red bed

Section 7. REMARKS AND ADDITIONAL INFORMATION

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Driller

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1(a) and Section 5 need be completed.

Revised June 1972

STATE ENGINEER OFFICE

WELL RECORD

#2

Section 1. GENERAL INFORMATION

(A) Owner of well NM Oil & Conservation Owner's Well No. _____
Street or Post Office Address P.O.box 1980
City and State ~~Emery~~ Hobbs, NM 88240

Well was drilled under Permit No. L-9500 and is located in the:

a. _____ ¼ _____ ¼ _____ ¼ _____ ¼ of Section 3 Township 18S Range 36E N.M.P.M.

b. Tract No. _____ of Map No. _____ of the _____

c. Lot No. _____ of Block No. _____ of the _____
Subdivision, recorded in _____ Lea County.

d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in the _____ Grant.

(B) Drilling Contractor Larry's Drilling License No. WD882

Address 2601 W. Bender, Hobbs, NM 88240

Drilling Began 9-1-84 Completed 9-1-84 Type tools cuttings Size of hole 7 7/8 in.

Elevation of land surface or _____ at well is _____ ft. Total depth of well 145 ft.

Completed well is ☐ shallow ☐ artesian. Depth to water upon completion of well _____ ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet From	Depth in Feet To	Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
78	124	46	sand & sandstone	

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet Top	Depth in Feet Bottom	Length (feet)	Type of Shoe	Perforations From	Perforations To
3	160PVC		-1	143	146			
	casing pulled & hole plugged							

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet From	Depth in Feet To	Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement

Section 5. PLUGGING RECORD

Plugging Contractor _____
Address _____
Plugging Method _____
Date Well Plugged _____
Plugging approved by:

_____
State Engineer Representative

No.	Depth in Feet Top	Depth in Feet Bottom	Cubic Feet of Cement
1			
2			
3			
4			

FOR USE OF STATE ENGINEER ONLY

Date Received

Quad _____ FWL _____ FSL _____

File No. _____ Use _____ Location No. _____

Section 6. LOG OF HOLE

Depth in Feet From	Depth in Feet To	Thickness in Feet	Color and Type of Material Encountered
0	1	1	topsoil
1	23	22	caliche
23	30	7	hard red & white rock
30	48	18	white rock
48	54	6	sand
54	72	18	white rock & clay, some sand
72	78	6	white rock
78	85	7	sand
85	124	39	sand & layers of sandstone
124	140	16	sand & pink clay
140	143	3	clay & small gravel
143	145	2	red bed

Section 7. REMARKS AND ADDITIONAL INFORMATION

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

LARRY'S DRILLING & PUMP CO.
2601 WEST BENDER
HOBBS, NEW MEXICO 88240

Driller

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1(a) and Section 5 need be completed.

Revised June 1972

STATE ENGINEER OFFICE

WELL RECORD

Well #3

Section 1. GENERAL INFORMATION

(A) Owner of well NM Oil & Conservation Owner's Well No. _____

Street or Post Office Address _____

City and State P.O.box 1980 Hobbs, NM 88240

Well was drilled under Permit No. L-9500 and is located in the:

a. _____ ¼ _____ ¼ _____ ¼ _____ ¼ of Section 5 Township 16S Range 36E N.M.P.M.

b. Tract No. _____ of Map No. _____ of the _____

c. Lot No. _____ of Block No. _____ of the _____

Subdivision, recorded in _____ County.

Lea

d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in the _____ Grant.

(B) Drilling Contractor Larry's Drilling License No. WD882

Address Hobbs, NM

Drilling Began 9-1-84 Completed 9-1-84 Type tools Triconn Size of hole 7 7/8 in.

Elevation of land surface or _____ at well is _____ ft. Total depth of well 140 ft.

Completed well is ☐ shallow ☐ artesian. Depth to water upon completion of well _____ ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet From	Depth in Feet To	Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
44	139	75	sand & sandstone	

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet Top	Depth in Feet Bottom	Length (feet)	Type of Shoe	Perforations From	Perforations To
5	160PVC		-1	140	141			
		casing pulled and hole plugged						

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet From	Depth in Feet To	Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement

Section 5. PLUGGING RECORD

Plugging Contractor _____

Address _____

Plugging Method _____

Date Well Plugged _____

Plugging approved by:

_____

State Engineer Representative

No.	Depth in Feet Top	Depth in Feet Bottom	Cubic Feet of Cement
1			
2			
3			
4			

FOR USE OF STATE ENGINEER ONLY

Date Received

Quad _____ FWL _____ FSL _____

File No. _____ Use _____ Location No. _____

Section 6. LOG OF HOLE

Depth in Feet From	Depth in Feet To	Thickness in Feet	Color and Type of Material Encountered
0	4	4	topsoil
4	36	32	caliche
36	48	12	sand & sandstone
48	52	4	sand
52	64	12	sandstone
64	80	16	sand, thin layers of sandstone
80	94	14	sand
94	96	2	sandstone
96	132	36	sand, thin sandstone
132	139	7	sand & clay, small gravel
139	140	1	red bed

Section 7. REMARKS AND ADDITIONAL INFORMATION

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

LARRY'S DRILLING & PUMP CO.
2601 WEST BENDER
HOBBS, NEW MEXICO 88240

Driller

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1(a) and Section 5 need be completed.

Revised June 1972

STATE ENGINEER OFFICE

WELL RECORD

#4

Section 1. GENERAL INFORMATION

(A) Owner of well EK Oil & Conservation Owner's Well No. _____
Street or Post Office Address P.O.Box 1980
City and State Hobbs, N.M.

Well was drilled under Permit No. L-9503 and is located in the:

a. ____ ¼ ____ ¼ ____ ¼ ____ ¼ of Section 5 Township 16S Range 36E N.M.P.M.

b. Tract No. _____ of Map No. _____ of the _____

c. Lot No. _____ of Block No. _____ of the _____
Subdivision, recorded in _____ Lea County.

d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in the _____ Grant.

(B) Drilling Contractor Larry's Drilling License No. WD882

Address 2201 W. Bender, Hobbs, NM

Drilling Began 9-1-84 Completed 9-3-84 Type tools trieco Size of hole 7 7/8 in.

Elevation of land surface or _____ at well is _____ ft. Total depth of well 127 ft.

Completed well is ☐ shallow ☐ artesian. Depth to water upon completion of well _____ ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet From	Depth in Feet To	Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
76	106	30	sand & sandstone	

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet Top	Depth in Feet Bottom	Length (feet)	Type of Shoe	Perforations From	Perforations To
5	160FTC		-1	127	128			
	casing pulled & hole plugged							

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet From	Depth in Feet To	Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement

Section 5. PLUGGING RECORD

Plugging Contractor _____
Address _____
Plugging Method _____
Date Well Plugged _____
Plugging approved by:

_____
State Engineer Representative

No.	Depth in Feet Top	Depth in Feet Bottom	Cubic Feet of Cement
1			
2			
3			
4			

FOR USE OF STATE ENGINEER ONLY

Date Received

Quad _____ FWL _____ FSL _____

File No. _____ Use _____ Location No. _____

Section 6. LOG OF HOLE

Depth in Feet From	Depth in Feet To	Thickness in Feet	Color and Type of Material Encountered
0	1	1	topsoil
1	28	27	caliche
28	35	7	hard red rock
35	65	30	white rock
65	76	11	sand
76	102	26	sandstone, layers of sand
102	120	18	white & red rock, clay
120	125	5	clay & gravel
125	127	2	red bed

Section 7. REMARKS AND ADDITIONAL INFORMATION

[illegible]

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

LARRY'S DRILLING & PUMP CO.
2601 WEST BENDER
HOBBS, NEW MEXICO 88240

Driller

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1(a) and Section 5 need be completed.

Revised June 1972

STATE ENGINEER OFFICE

WELL RECORD

Section 1. GENERAL INFORMATION Well #5

(A) Owner of well [illegible] Owner's Well No. _____
Street or Post Office Address P.O.Box 1980
City and State [illegible]

Well was drilled under Permit No. L-9500 and is located in the:

a. _____ ¼ _____ ¼ _____ ¼ _____ ¼ of Section 6 Township [illegible] Range [illegible] N.M.P.M.

b. Tract No. _____ of Map No. _____ of the _____

c. Lot No. _____ of Block No. _____ of the _____
Subdivision, recorded in _____ Lea County.

d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in the _____ Grant.

(B) Drilling Contractor Larry's Drilling License No. WD882

Address [illegible]

Drilling Began 8-4-82 Completed 8-6-82 Type tools [illegible] Size of hole 7 7/8 in.

Elevation of land surface or _____ at well is _____ ft. Total depth of well 100 ft.

Completed well is ☐ shallow ☐ artesian. Depth to water upon completion of well _____ ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet From	Depth in Feet To	Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
64	100	46	sand & sandstone	
0	3	3	caliche	
3	34	31	caliche	
34	48	14	sand & clay, thin layers of sandstone	
48	54	6	hard white rock	
54	92			

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet Top	Depth in Feet Bottom	Length (feet)	Type of Shoe	Perforations From	Perforations To
5	[illegible]		-1	100	101			
		casing pulled & hole plugged						

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet From	Depth in Feet To	Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement

Section 5. PLUGGING RECORD

Plugging Contractor _____
Address _____
Plugging Method _____
Date Well Plugged _____
Plugging approved by:

_____
State Engineer Representative

No.	Depth in Feet Top	Depth in Feet Bottom	Cubic Feet of Cement
1			
2			
3			
4			

FOR USE OF STATE ENGINEER ONLY

Date Received

Quad _____ FWL _____ FSL _____

File No. _____ Use _____ Location No. _____

Section 6. LOG OF HOLE

Depth in Feet From	Depth in Feet To	Thickness in Feet	Color and Type of Material Encountered
0	3	3	topsoil
3	34	31	caliche
34	48	14	sand & clay, thin layers of sandstone
48	54	6	hard white rock
54	92	38	sand, thin layers of sandstone
92	95	3	sandstone
95	100	5	sand

Section 7. REMARKS AND ADDITIONAL INFORMATION

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

LARRY'S DRILLING & PUMP CO.
2601 WEST BENDER
HOBBS, NEW MEXICO 88240

Driller

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1(a) and Section 5 need be completed.

Revised June 1972

STATE ENGINEER OFFICE

WELL RECORD

Section 1. GENERAL INFORMATION

(A) Owner of well NM Oil & Conservation Owner's Well No. Well #6

Street or Post Office Address P.O.Box 1980

City and State Hobbs, NM 88240

Well was drilled under Permit No. L 9500 and is located in the:

a. ____ ¼ ____ ¼ ____ ¼ ____ ¼ of Section 6 Township 18S Range 36E N.M.P.M.

b. Tract No. ____ of Map No. ____ of the ____

c. Lot No. ____ of Block No. ____ of the ____
Subdivision, recorded in ____ Lea ____ County.

d. X= ____ feet, Y= ____ feet, N.M. Coordinate System ____ Zone in the ____ Grant.

(B) Drilling Contractor Larry's Drilling License No. WD882

Address 2601 W. Pender, Hobbs, NM

Drilling Began 9-5-84 Completed 9-5-84 Type tools tricone Size of hole 7 7/8 in.

Elevation of land surface or ____ at well is ____ ft. Total depth of well 100 ft.

Completed well is ☐ shallow ☐ artesian. Depth to water upon completion of well ____ ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet From	Depth in Feet To	Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
62	80	18	sand & sandstone	

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet Top	Depth in Feet Bottom	Length (feet)	Type of Shoe	Perforations From	Perforations To
5	160PVC		-1	100	101			
		casing pulled & hole plugged						

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet From	Depth in Feet To	Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement

Section 5. PLUGGING RECORD

Plugging Contractor ____

Address ____

Plugging Method ____

Date Well Plugged ____

Plugging approved by:

____
State Engineer Representative

No.	Depth in Feet Top	Depth in Feet Bottom	Cubic Feet of Cement
1			
2			
3			
4			

FOR USE OF STATE ENGINEER ONLY

Date Received

Quad ____ FWL ____ FSL ____

File No. ____ Use ____ Location No. ____

Section 6. LOG OF HOLE

Depth in Feet From	Depth in Feet To	Thickness in Feet	Color and Type of Material Encountered
0	4	4	topsoil
4	39	35	caliche
39	62	23	sand, clay, thin layer of sandstone
62	80	18	sand & sandstone
80	100	20	fine sand

Section 7. REMARKS AND ADDITIONAL INFORMATION

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

LARRY'S DRILLING CO.
2007 WEST BENDER
HOBBS, NEW MEXICO 88240

Driller

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1(a) and Section 5 need be completed.

Revised June 1972

STATE ENGINEER OFFICE

WELL RECORD

Section 1. GENERAL INFORMATION

Well #7

(A) Owner of well NM Oil & Conservation Owner's Well No. _____

Street or Post Office Address P.O.Box 1980

City and State Hobbs, NM

Well was drilled under Permit No. L-9330 and is located in the:

a. ____ ¼ ____ ¼ ____ ¼ ____ ¼ of Section C Township 18S Range 38E N.M.P.M.

b. Tract No. _____ of Map No. _____ of the _____

c. Lot No. _____ of Block No. _____ of the _____

Subdivision, recorded in _____ Lea _____ County.

d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in the _____ Grant.

(B) Drilling Contractor Larry's Drilling License No. WD882

Address 3501 W. Bender, Hobbs, NM

Drilling Began 9-5-84 Completed 9-6-84 Type tools rotary Size of hole 7 7/8 in.

Elevation of land surface or _____ at well is _____ ft. Total depth of well 153 ft.

Completed well is ☐ shallow ☐ artesian. Depth to water upon completion of well _____ ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet From	Depth in Feet To	Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
57	130	73	sand & sandstone	

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet Top	Depth in Feet Bottom	Length (feet)	Type of Shoe	Perforations From	Perforations To
5	16#STC		-1	153	154			
	well casing pulled and well plugged							

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet From	Depth in Feet To	Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement

Section 5. PLUGGING RECORD

Plugging Contractor _____

Address _____

Plugging Method _____

Date Well Plugged _____

Plugging approved by:

_____

State Engineer Representative

No.	Depth in Feet Top	Depth in Feet Bottom	Cubic Feet of Cement
1			
2			
3			
4			

FOR USE OF STATE ENGINEER ONLY

Date Received

Quad _____ FWL _____ FSL _____

File No. _____ Use _____ Location No. _____

Section 6. LOG OF HOLE

Depth in Feet From	Depth in Feet To	Thickness in Feet	Color and Type of Material Encountered
0	3	3	topsoil
3	5	2	clay
5	17	12	caliche
17	21	4	sand
21	39	18	caliche
39	49	10	sand & clay
49	57	8	hard white rock
57	94	37	sand & sandstone layers
94	97	3	sandstone
97	130	33	sand, clay, thin sandstone
130	1515	21	salt & small gravel
151	153	2	redbed

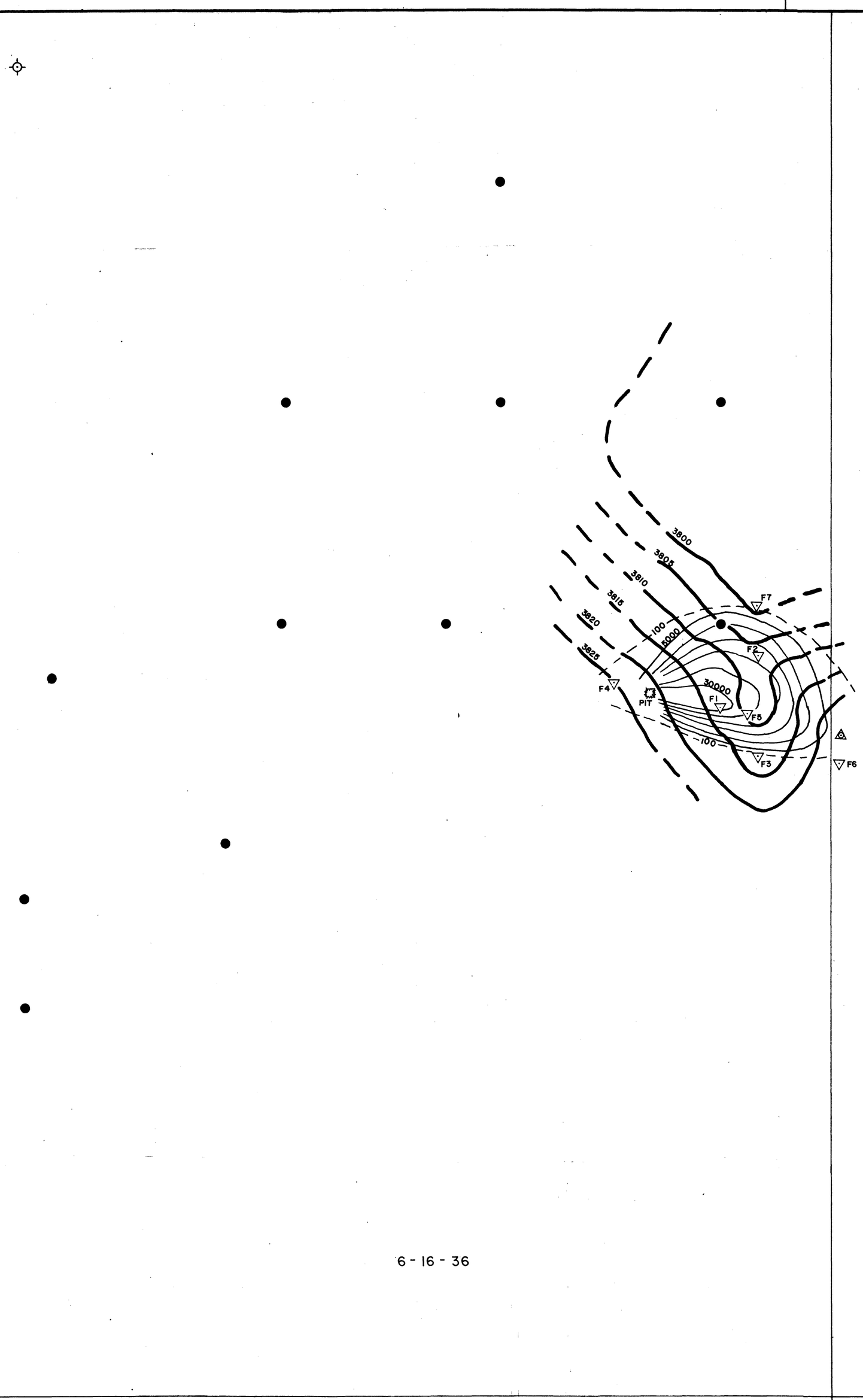
Section 7. REMARKS AND ADDITIONAL INFORMATION

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

LARRY'S DRILLING & PUMP CO.
2601 WEST BENDER
HOBBS, NEW MEXICO 88240

Driller

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1(a) and Section 5 need be completed.



DRY HOLE

OIL WELL

FRESH WATER SAMPLE WELL

DOMESTIC FRESH WATER WELL

PIT

CONTOUR TOP RED BEDS

C.I. = 5 FEET

3805

CONTOUR CHLORIDE CONTENT

C.I. = 5000 PPM

10000

CHLORIDE CONTENT 100 PPM

SCALE 1 INCH = 330 FEET

1:3960

NEW MEXICO OIL CONSERVATION DIVISION

FUQUA WATER STUDY

6 - 16 - 36