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# 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

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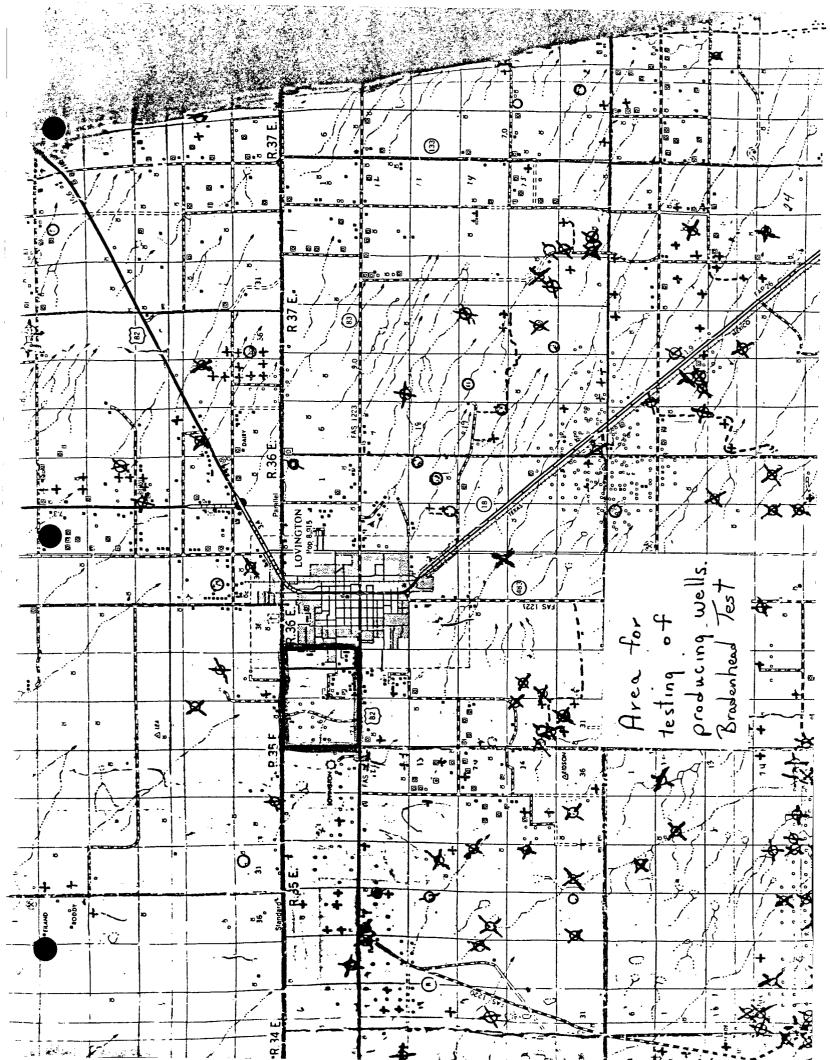
Location Plat and Redbed Map
Results of Survey
General Statistics of Survey
Daily Field Reports
Water Analysis
Drillers' Logs

Maps. . .(1) Area of Study

- (2) Redbed Map State Engineer's
- (3) Results Map

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#### 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 Easê, 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, Tl6S, 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 wire 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 perforation 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

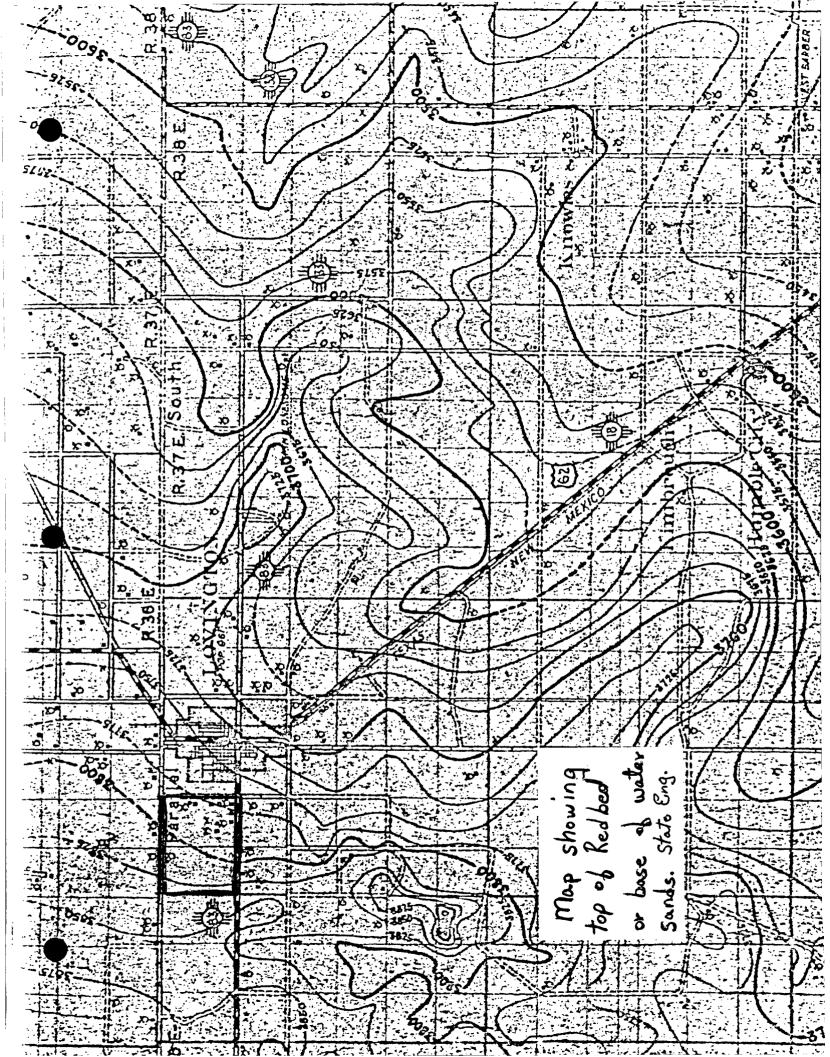
From the information gathered from test well drilling at a cost of approximately \$11,000, we feel the contamination did come from the surface pit at the Charles Gillespie Oil Company Snyder Battery, which was used before the no pit order was issued by the State of New Me; ico in 1969. Also, our study 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 Fugua 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.



## 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
Туре	Well: water well Depth 126 feet.
Well	Use: domestic
Samp	le Number: Date Taken: 2-2-84
	Taken By: Eddie W. Seay
•	Specific Conductance: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 Seay
	Oil Conservation Division
REMA	RKS: 10 ml 355 x 4.5 = 1,597.5 ppm Cl - sample was taken after pumping well
	for 30 mins.
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## 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	<u>5</u> , T <u>16</u> S, R	<u>36</u> <b>E</b>
	•••		
Type Well: water well	· · · · · · · · · · · · · · · · · · ·	Depth	126 <b>fcet.</b> .
Well Use: domestic	·	•	•
Sample Number:		. Date Taken:	2-2-84
	:	Taken By: _Ec	ldie Seay
Specific Conductance:	•	_ m/n	
Total dissolved Solids:		PPM.	
Chlorides:	1,491	PPM. :	
• Sulfates:	•	PPM.	•
Ortho-phosphates:	V.LowL	ow Medium	High
Sulfides:	None DL	ow Medium	∏High
Date Analyzed: 2-2-84	By: 2	il Conservation D	- Eddie Seav ivision
REMARKS:10 ml 355 x 4.2 = 1,49	l ppm Cl - samp	ole taken after 4 hr	s of pumping.
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#### WATER ANALYSIS Sec 6\$5T16S, 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

	, 1	UR	Q U A R	Namo	Eddie W.	Seav	FIELD TRIP	•	Miles	56 District	• • 1
I	L	S	TE					•		Car No.	
TION	Y		R H O U R S	In the s	space belo	ow indicate	the purpose leases visit	of the trip	and the du	ies .	
	0	12		l well	#F-1 ditest was	- Fuqua are FNL - 6-16-  rill to Red ater by jet  #1 - 23572 #2 - 26838 #3 - 28542 #4 - 30388 #5 - 30388	a - test we 36  Beds - 137 ting water  ppm ppm ppm ppm ppm ppm	11 #F-1 - 1 - TD-1	located 660	contamination FEL &	
	j		}	·		#6 - 30333	3 ppm	:	,	•	
					Milcage UIC RFA Other	own - will	Per Dic UIC RFA Other		Hours UIC RFA Other		
TYPE	INS	PECTI	ИС	<del></del>		INSPECTION	· · · · · · · · · · · · · · · · · · ·			UPS OF SPECIFIC	
PE	REOP	MED				LASSIFICATION			······································	FACILITY INSPE	CTED
P T R F	Plug Plug Well Repa Wate	Test ir/Wo: rflow	ing Cleanup rkover Spill	<b>.</b>	related t resulting injection tests, su	o injection p from injecti and producti erface injecti	Control - Any roject, facilion into any woon wells, wateon equipment, o Reclamation	ity, or well of 11. (SWD, 2. or flows or pugging, etc.	or P ndry I nresure C nc.)	Drilling Production Injection Combined prod. operations SWD Underground St	-

Reclamation Fund E - Indicates some form of unforcument action taken in the field (show immediately below the lutter U, R or O)

G = General Operation F = Facility or location
H = Hooting

O - Other

. O = Other - Inspections not related to injection or The

0 - Other

M = Mishap or Spill W = Water Contamination

NEW	MEXICO	OIL	CONSE	NOITAVS	COMMISSION
		TELL	TRIP	REPORTE	6 e <sup>t</sup> .

•	. 1	U R	Q U N R	Name Eddie W. Seay Date 8-16-84 Miles 84 District 1
IF	L	ន	T E	Time of Departure 7:00 a.m. Time of Return 7:00 p.m. Car No. 736
ATHON	Y		R H O U R S	In the space below indicate the purpose of the trip and the duties performed, listing wells or leases visited and any action taken.  Signature
<b>W</b> o .		10		<pre>2 wells - West Loving - Fuqua Contamination Study     re-test F-1</pre>
				#1 - 71 ppm #2 - 71 ppm #3 - 56.8 ppm #4 - 71 ppm
: <b>V</b> O	F	2		<pre>1 other - Lovington area to meet w/Mr. Don Hamm w/Southern Union     Refinery - rain had washed oil onto ground around area -     will cleanup &amp; report.</pre>
		- 1	1	·
		-		
				Mileage Per Diem Hours UIC UIC UIC
				Mileage         Per Dicm         Hours           UIC         UIC         UIC           RFA         RFA         RFA

Housekeeping

Plugging C - Plugging Cleanup

T " Well Test

R - Repair/Workover

F - Waterflow

M - Mishap or Spill W - Water Contamination

0 - Other

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 Roclamation Fund Activity
- , 0 = 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)

D - Drilling

P - Production

I = Injection

- C = Combined prod. inj. operations
- S SWD
- U Underground Storage
- G General Operation
- F Facility or locatic H - Hooting
- 0 Other

			0	NEW MEXICO OIL CONSERVATION COMMISSION FIELD TRIP REPORT
F C	L I T Y	U R S	U A R T E R	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. 736
A T I O N			H O U R S	In the space below indicate the purpose of the trip and the duties performed, listing wells or leases visited and any action taken.  Signature
/o	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' rwn 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 #6 - 3550 x 5.2 = 18,460 ppm Sample #7 - 3550 x 5.2 = 18,460 ppm Sample #7 - 3550 x 5.2 = 18,460 ppm Sample #7 - 3550 x 5.2 = 18,460 ppm Sample #7 - 3550 x 5.2 = 18,460 ppm Sample #6 - 3500 x 5.2 = 18,460 ppm Sample #7 - 3550 x 5.2 = 18,460 ppm Sample #7 - 3550 x 5.2 = 18,460 ppm Sample #6 - 3550 x 5.2 = 18,460 ppm Sample #6 - 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 Sample #6 - 3550 x 5.2 = 18,460 ppm Sample #6 - 3550 x 5.2 = 18,460 ppm Sample #6 - 3550 x 5.2 = 18,460 ppm Sample #6 - 3550 x 5.2 = 18,460 ppm Sample #6 - 3550 x 5.2 = 18,460 ppm Sample #6 - 3550 x 5.2 = 18,460 ppm Sample #6 - 3550 x 5.2 = 18,460 ppm Sample #6 - 3550 x 5.2 = 18,460 ppm Sample #6 - 3550 x 5.2 = 18,460 ppm Sample #6 - 3550 x 5.2 = 18,460 ppm Sample #6 - 3550 x 5.2 = 18,460 ppm Sample #6 - 3550 x 5.2 = 18,460 ppm Sample #6 - 3550 x 5.2 = 18,460 ppm Sample #6 - 3550 x 5.2 = 18,460 ppm Sample #6 - 3550 x 5.2 = 18,460 ppm Sample #6 - 3550 x 5.2 = 18,460 ppm Sample #6 - 3550 x 5.2 = 18,460 ppm Sample #6 - 3550 x 5.2 = 18,460 ppm Sample #6 - 3550 x 5.2 = 18,460 ppm Sample #6 - 3550 x 5.2 = 18,460 ppm Sample #6 - 3550 x 5.2 = 18,460 ppm Sample #6 - 3550 x 5.2 = 18,460 ppm Sample #6 - 3550 x 5.2 = 18,460 ppm Sample #6 - 3550 x 5.2 = 18,460 ppm Sample #6 - 3550 x 5.2 = 18,460 ppm Sample #6 - 3550 x 5.2 = 18,460 ppm Sample #6 - 3550 x 5.2 = 18,460 ppm Sample #6 - 3550 x 5.2 = 18,460 ppm Sample #6 - 3550 x 5.2 = 18,460 ppm Sample #6 - 3550 x 5.2 = 18,460 ppm Sample #6 - 3550 x 5.2 = 18,460 ppm Sample #6 - 3550 x 5.2 = 1

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INSPECTION CLASSIFICATION NATURE OF SPECIFIC WELL OR PACIFITY INSPECTED

H	pusckeeping
₽	lugging
C	- Plugging Cleans
T	- Well Test

- ıp .
- R = Repair/Workover
- w Waterflow
- M Mishap or Spill
- W Water Contamination
- 0 Other

- U = Underground Injection Control Any inspection of or related to injection project, facility, or well or resulting from injection into any well. (SNO, 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 onforcement action taken in the field (show immediately below the lutter U, R or O)
- D Drilling
- P = Production
- I Injection
- C = Combined prod. inj. operations
- 5WD
- U Underground Storage
- G General Operation
- F = Facility or location: H - Booting
- 0 = Other

2	Ĭ	U R S	Л R T	Name Ed	die Seay		Date	8-18-84	Miles 60	Distric
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<b>V</b> 6	0	8		1 well -	study -		ert jetting		qua contamina mple - sampli	
			-		Sample a	$\frac{1}{2}5 x$ $\frac{1}{3}5 x$	x 142 = 71 p 142 = 71 pp 142 = 71 pp 142 = 71 pp	m m		
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					Sample Sample Sample	#23 x #33 x #43 x	142 = 42.6 142 = 42.6 142 = 42.6 142 = 42.6 142 = 42.6	ppm ppm	·.	
					will leate to F-4	ave 5" PV	C in hole -	to monitor	- rig down -	mone .
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0 - Other

R = Repair/Workover tests, surface injection equipment, plugging, etc.)
F = Waterflow R = Inspections relating to Reclamation Fund Activity
W = Water Contamination O = Other - Inspections not related to injection or The Reclamation Fund

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

S - SWD U - Underground Storeg

G - General Operation
F - Facility or locati
H - Husting

H = Hooting O = Other

NEW MEXICO C	)IL	CONSE	ITAVI	O	OIBSIMIC
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s	I L	R S	R T	Name Eddie W. Seay	Date 8-20-84	Miles 64 District 1
Ĉ	T Y		E R	Time of Departure 7:00 a.m.	Time of Return 14:	00 p.m. Car No. 73
C A T I O N	•		H O U R S	In the space below indicate the performed, listing wells or loss signature	ne purpose of the trip and eases visited and any act	d the duties ion taken.
<b>Y</b> <sub>0</sub>	О	12		redbed & test  Red Beds 125 TD 127 run 5" PVC pipe w/2 well approx. 3 1/2 then catch sample of Sample #19 x 16 Sample #28 x 16 Sample #38 x 16	FSL & 835' FEL - 6-16-36  7  20' of perf. on bottom & hrs. trying to get wate every 20 mins.  42 = 127.8 ppm 42 = 113.6 ppm 42 = 113.6 ppm	- drill to  test - pump
				Sample #47 x 1 Sample #58 x 1		
				shut in overnight	& catch samples.	•
		-				•
				<u>Milcage</u> UIC	<u>Per Diem</u> UIC	Hours UIC
	'			RFA	RFA	RFA
				Other 64	Other 13.00	Other 12
TYPE	INSPI		N N	INSPECTION CLASSIFICATION	· · · · · · · · · · · · · · · · · · ·	NATURE OF SPECIFIC WELL OR FACILITY INSPECTED
11 - 11 P = 1 C = 1 T = W	ousei luggi luggi	ceep1 ing ing C	ng leanup kover	U = Underground Injection Co related to injection pro resulting from injection injection and production	introl - Any inspection of or eject, facility, or well or into any well. (SWD, 2ndry wells, water flows or pressuequipment, plugging, etc.)	D = Drilling P = Production I = Injection

P - Waterflow M = Michep or Spill
W = Water Contamination
O = Other

- resulting from injection into any well. (SKD, 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 - Indicator some form of onforcement action taken in the

- C Combined prod. inj. operations
- S SWD
  - U Underground Storege G = General Operation
- r = Facility or location
  H = Heeting

### NEW MEXICO GIL CONSERVATION COMMISSION

O U A R S T E R Y H O U R	Name Eddie W. Seay  Time of Departure 7:00 a.m.  In the space below indicate the	Date 8-21-84 Miles 56 District  Time of Return 7:00 p.m. Car No. 7:  purpose of the trip and the duties ses visited and any action taken.
	2 wells - Lovington area to decontamination study  Catch sample from Possible #69 x 14  pull pipe & PVC - possible #6 - 6-16-36	F-4 6-16-36  2 = 127.8 ppm  Plug well and move to F-5 550' FEL &  3 - drill to water sand at 100' and test  2 = 113.6 ppm  42 = 113.6 ppm 42 = 99.4 ppm
TYPE INSPECTION ERFORMED	Mileage UIC RFA Other 56	Per Diem Hours  UIC UIC  RFA RFA  Other 13.00 Other 12  NATURE OF SPECIFIC WELL CR FACILITY INSPECTED

II - Housekeeping P = Plugging

C = Plugging Cleanup T = Well Test

R = Repair/Workover F - Waterflow

M + Mishap or Spill

W - Water Contamination

0 - Other

U = Underground Injection Control - Any inspection of or related to injection project, facility, or well or resulting from injection into any well. (SND, 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 onforcement action taken in the

D - Drilling

P = Production

I = Injection

C = Combined prod. inj operations S - SWD

U - Underground Storng G - General Operation

F = Facility or locati

H - Hooting O = Other

S S		C I L I	O U R S	O U A T E	Name Eddie W. Seay Time of Departure 7:00 a.m.	Date 8-22-84  Time of Return	Miles 57	District 1
ICATION	)	Y		R H O U R S	In the space below indicate the performed, listing wells or lessing signature	he purpose of the trip a	nd the duties	Car No/
<b>16</b>		0	11	_	Corner of Fuqua pr	F-6 50'FWL 4500" FNL - operty:	5-16-36 - on S	SW .
					hole test water ev Cl.	n 5" pvc w/20' of perf. ery 20 mins Her exis		
					Sample #15 x 1 Sample #24 x 1 Sample #34 x 1 Sample #44 x 1 Sample #54 x 1	42 = 56.8 ppm 42 = 56.8 ppm 42 = 56.8 ppm		
					Will re-drill to c	omplete water well.		
•	,				•			
			-			•		
•					•	•	•	
					<u>Milcage</u> UIC	Per Diem UIC	Hours UIC	• .
		•			RFA	RFA	RFA	
					.Other57	Other 6.00	Other 1	.1
		NS PE	CTIO	N	INSPECTION CLASSIFICATION			SPECIFIC WEL
	Plo Plo We:	099i 11. jiji 11. T	ng C est	ng lennup kover	resulting from injection injection and production	ntrol - Any inspection of or ject, facility, or well or into any well. [SWD, 2ndry wells, water flews or pressequipment, plugging, etc.]	P = Produ y I = Injec sure C = Comb:	ction

M = Mishap or Spill W = Water Contamination 0 - Other

F = Waterflow

R - Inspections relating to Reclamation Fund Activity

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

C = Combined prod. inj. operations

S - SWD

U = Underground Storage G - General Operation

F = Facility or locatic

### NEW MEXICO OIL CONSERVATION COMMISSION

	O U R S	Q U A R	Name Eddie Sea		Date 8-25-84	Miles 76 District
T		E R	Time of Departure	6:00 a.m.	Time of Return 1	:00 p.m Car No
Č Y A T I O N		H O U R S	In the space beloperformed, listing	ow indicate the ng wells or leas	purpose of the trip as es visited and any ac	nd the duties tion taken.
Vo o	6		well #1	F-7 - 3450' FNI	rill test wells on F & 450' FEL - drill TD-153 - run 5" PVC	to red beds and test
				#14 x 142 #25 x 142 #35 x 142 #45 x 142 #55 x 142 #65 x 142	= 71 ppm = 71 " = 71 " = 71 "	
					<i>:</i>	
			·	•		
				•		
				•		•
				•		
.						
			•		•	•
				·	•	
			Mileage	•	Per Dicm	Hours
	.		nic		nic	UIC
			RFA	76	Other 6.00	RFA 6
. ]						
TYPE INSPI PERFORM		N	C:	INSPECTION ASSIFICATION		NATURE OF SPECIFIC ME OR FACILITY INSPECTE
	ED keepii ing ing C	ng	U = Undergrous related to resulting	ASSIFICATION  od Injection Control injection projection injection in	ol - Any inspection of or t, facility, or well or to any well. (SND, 2nd)	CR FACILITY INSPER  D = Drilling P = Production I = Injection

R = Repair/Workover | F = Waterflow W H = Mishap or Spill
O W = Water Contamination
O = Other tests, surface injection equipment, plugging, etc.)

R - Inspections relating to Reclamation Fund Activity

. 0 - Other - Inspections not related to injection or The Reclamation Fund

E - Indicates some form of onforcement action taken in the

operations

S - SWD U - Underground Store

G = General Operation
F = Facility or locat
H = Hueting

Well#/

#### Section 1. GENERAL INFORMATION

Street or	Post Office Ad	ldressR	O.Bex 19	BQ	laice	·	Owner's W	ell No.	
			-			4.12.41.			
					and is loca				
a	_ ¼ ¼	· ¼	¼ of Sec	tion <b>3</b> _	Townshi	P. <b>169</b>	_ Range _	36E	N.M.P.I
b. Tract	No	of Map No.		oi	f the				
c. Lot N	O	of Block No	100	of	f the		· · · · · · · · · · · · · · · · · · ·		
					t, N.M. Coordina	ate System			Zone i
the	-								Gran
								1	
ddress		2601	W. Bende	r, Bobb	s - 131 8824	0		<del></del>	<del></del>
rilling Began .	8-31-84	Comp	leted	31-84	Type tools	-tricone-		Size of hole_	7 7/8 i
levation of lar	nd surface or			at	well is	ft. Total	depth of w	ell <b>139</b>	f
ompleted well	lie 🖼 ei	hallow [] a	rtesian		Depth to wa	ater upon comp	letion of w	ell	<b>9</b> f
ompicied wer	,				-			··· ————	·
Depth	in Feet	Thickness			TER-BEARING			Estimated	Yield
From	То	in Feet	D	escription	of Water-Bearin	ng Formation		(gallons per	
60	124	64		d & was	dstone	<del> </del>			
						· · · · · · · · · · · · · · · · · · ·			
			Section	3. RECO	RD OF CASING	3			
Diameter	Pounds	Threads	Depth i		Length	1	of Shoe	Perfo	rations
(inches)	per foot	per in.	Тор	Botton	n (feet)			From	То
3	160PVC		-1	139	140	_			
		lied costs	g & plug	red hol	•				<del> </del>
		Santia	an A RECOR	D OF MU	IDDING AND G	EMENTING			
Depth	in Feet	Hole	Sacks		DDING AND C		Method of	Di	
From	То	Diameter	of Mu		of Cement		Method of		
	.•								
,									
					· .				
			Section	5 PLUG	GING RECORE	)			
lugging Contra	actor								
					No		th in Feet		bic Feet
ate Well Plugg					1	Тор	Bot	iom oi	Cement
	ved by:		• •		2				
				ntativa	3	<del></del>	+		
ugging approv		State Engi	neer Represei	Itative	4_				
ugging approv		State Engi			E ENGINEER O	NLY			
	<del></del>	State Engi		OF STATE			WL _	 	

			Section 6. LOG OF HOLE
Depth		Thickness	Color and Type of Material Encountered
From	То	in Feet	Cotol and Type of Material Encountered
0	4	4	topsoil
4		4	gray elay
8,	.36	28	qaliqka
36	46	10	hard white reck
34	92	36	send & sendstone
92	95	3	sectatore.
93	124	29	send, thin layers of sendstone , gravel
124	137	13	sand & elny, little gravel
137	139	2	red bed
	<i>,</i>		
		• •	
	· .		
	· .		

Section 7. REMARKS AND ADDITIONAL INFORMATION

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

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.

#2

#### Section 1. GENERAL INFORMATION

(A) Own Stree	er of w	ell	idress	Conserva	tion			Ov	vner's We	ell No	······································
						8824	<b>)</b>				
Well was d	rilled u	nder Permit	No.	<del>2500</del>		and	is locate	d in the:			
a		¼ ½	4 ¼	¼ of Se	ction	То	wnship _	168	Range 🎝	63 <u>1</u>	N.M.P.M
c. L	ot No		of Block No		of th	ıe					
Si	ubdivis	ion, recorde	d in		tes	County	·•				
			_ feet, Y=		feet, l	N.M. Co	ordinate	System			Zone in
B) Drill	ing Cor	ntractor	Larry <sup>†</sup> s	Deilling	,			License No.	WD	882	
Address			2601 V.	Sander,	Hebbe, M	1-882	40	· .			
								trices			
Elevation of	of land	surface or			at w	ell is		ft. Total dep	oth of we	ell	345 ft
Completed	well is	s 🗆 si	hallow 🔲 a	rtesian.		Depti	to wate	r upon complet	ion of w	ell	ft.
De	pth in	Feet	Sect Thickness	tion 2. PRIN	CIPAL WATE	R-BEA	RING S	TRATA		Estimated	Vield
From		То	in Feet	I	Description of	Water-	Bearing	Formation		gallons per	
	28	124	46		sand	A 88	edatan	<b>a</b>			
			<u></u>	Section	n 3. RECORI	OF C	ASING		<u> </u>		
Diamete	er	Pounds	Threads		in Feet		ength	Type of S	Shoe	Perfe	orations
(inches	)	per foot	per in.	Тор	Bottom	+	feet)	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		From	То
	<b>-</b>	160PY	¢	-1	143	-	146	<del> </del>		<del> </del>	
····			otes pull	ed & hold	plugged					<u> </u>	
			Section	on 4. RECO	RD OF MUDI	DING A	.ND CEM	1ENTING			
	pth in		Hole Diameter	Sack of Mu		Cubic F		Me	thod of	Placement	
From	$\dashv$	То	Diameter	OI MIC		·					
	$\top$								<del></del>		
		<del></del>				<del></del>					
	i_		<u> </u>	<u></u>	l						
lugging C	ntract	or		Section	n 5. PLUGGI	NG RE	CORD				
ddress							No.	Depth	in Feet	c	ubic Feet
							1	Top	Bott	om 0	f Cement
lugging ap	proved	by:	•			•	2				
	, "		State Engi	neer Represe	entative		<u>3</u> 4				
		= <del></del>	······································	FOR USE	OF STATE E	NGINE	ER ONL	.Y			
ate Receiv	ved				Quad	l		FWL	·	FSI	
_					***			Location No			

Section 6. LOG OF HOLE

			Section 6. LOG OF HOLE
Depth i	n Feet	Thickness	
From	То	in Feet	Color and Type of Material Encountered
		1	
	1	1	tepsetl
1	23	22	deliche
			·
22	30	1	hard red & white rock
	_44	16	white rock
		1.	
48	54		send.
54	72	18	white rock & alsy, some sand
			VALUE LUCK II CALLY PROPER SALES
72	78	6	white rock
		-	
78	85	7	and
85	124	39	send & layers of sendatons
120	140	16	sand & pink elay
1			
140	143	3	sley & seali gravel
		-	
	143	12	red bod
1			
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Section 7. REMARKS AND ADDITIONAL INFORMATION

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing 861 TWEST ENTRELEGATIVE OF the above described hole.

LARRY'S DRILLING & PUMP CO.

HOEBS, 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.

#### Section 1. GENERAL INFORMATION



A) Owner of	f well	n 011 6 (	Commerce et	শ্রে		Own	er's Well No		
	Post Office Ad			O,bon 198	0	<del></del>			
	State		No.	ibe. Ki 8	6240				*******
					_ and is located				
					Township				
b. Tract	No	_ of Map No	o	of th	e				
c. Lot N Subdi	o vision, recorded	of Block No. 1 in		of th	e County.				
				Lea					
					I.M. Coordinate S	System			
B) Drilling (	Contractor		Larry's Dr	illing		_ License No	WD881	1	
ddress			Hobba, IIX						
rilling Began	9-1-84	Con	npleted	-1-84	Type tools <b>Ex</b>	10000	Size of	holeZ	/8
levation of la	nd surface or _			at we	ell is	_ ft. Total depti	h of well	140	
ompleted wel	il is 🔲 sl	nallow 🗆	artesian.		Depth to water	upon completio	n of well		
D. 4		·		CIPAL WATE	R-BEARING ST	RATA	F-4		
From	in Feet To	Thicknes in Feet		Description of	Water-Bearing F	ormation		mated Y	
44	139	73		ed & sands	tone				
			Section	n 3. RECORD	OF CASING				
Diameter (inches)	Pounds per foot	Threads per in.		in Feet	Length (feet)	Type of Sh	oe	Perfora	
		per m.	Тор	Bottom 24	? 141		F	rom	То
	160PVC		<b>-1</b>					<del></del>	
	E	aing pul	led and ho	re bresse					
	<u> </u>	<u>-</u>	ti 4 BECOI	D OF MUDT	NING AND CEM	ENTING	l	1	
	in Feet	Hole	Sack	is C	OING AND CEMI Cubic Feet		od of Place	ment	
From	To .	Diameter	of Mi	ud c	of Cement				
	<u> </u>								
		<u>.</u>		l					
	••	,	Sectio	n 5. PLUGGII	NG RECORD				
						Depth in	ı Feet	Cub	ic Feet
ddress	actor				— No I				ic i cct
ddress ugging Metho	od				No.	Тор	Bottom		Cement
ddress ugging Metho ate Well Plugg	od				No. 1 2		Bottom		
idress ugging Metho ite Well Plugg	od	***			1		Bottom		
ddress ugging Metho ite Well Plugg	od	***	gineer Represe	entative	1 2 3	Тор	Bottom		
ddress ugging Metho	od	***	gineer Represe	entative OF STATE E	1 2 3 4	Тор		of (	Cement

Parent due 57			Section 6. LOG OF HOLE
	h in Feet	Thickness in Feet	Color and Type of Material Encountered
From	То	m reet	
		4	topooli
•			
	1 36	32	elsido
36	48	12	aged & candstone
43	52	-	
		123	
32	64	13	agadetone
	60	26	sand, this layers of sandstone
	94	24	sand
94	96	<u> </u>	egnictono
96	133	36	eard, this sendstore
132	1.39	7	send & clay, encil grevel
139	140	1	end had
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Section 7. REMARKS AND ADDITIONAL INFORMATION

The undersigned hereby certi	fies that, to the best of his kn	nowledge and belief, the foregoing is a	true and correct record of the above
described hole.			
		260	NEST BENDER

HORRS, 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.

#### Section 1. GENERAL INFORMATION

_//	
#	7
	/

A) Owner o	of well	KM 041 4 4	- -	lon		Owner's	Well No.	
						·	<del></del>	
				-				
ell was drille	d under Permi	t No		L-9303	_ and is located	in the:		
a	¼	¼ ¼	¼ of Se	ction	Township	168 Range	N.M.P	
b. Tract	No	of Map No.		of the				
c. Lot h	No	of Block No		of the				
		ed in						
d. X= _					M. Coordinate S		Zone	
							Gra	
3) Drilling	Contractor		Larry 1	Drilling		License No.	WD882	
ddress			7\$01 W.	Dender,	iobba, MH			
rilling Began	9-1-84	Comp	pleted	5-53	_ Type tools	riceca	Size of hole 7 7/8	
levation of la	and curface or			at wel	l ie	ft. Total depth of	well	
ompleted we	ll is 🗀 :	shallow 🗀 a	artesian.		Depth to water	upon completion of	well	
Danah	i- Foot			CIPAL WATER	R-BEARING ST	RATA	D. C. at 1 37:14	
Depth in Feet Thicknes From To in Feet			1	Description of \	Water-Bearing F	ormation	Estimated Yield (gallons per minute)	
76	206	30	sen	l & eandate				
	ļ							
	<u> </u>	<u> </u>						
			Section	n 3. RECORD	OF CASING			
Diameter (inches)	Pounds per foot	Threads per in.		in Feet Bottom	Length (feet)	Type of Shoe	Perforations From To	
5	160FTC	Pet III.	Тор				FIOII 10	
	TOOLIC	<del> </del>	-1	127	123		<del></del>	
	•	llug gull	ed & bole	playend		<del> </del>		
		Section	on 4. RECOI	RD OF MUDDI	NG AND CEMI	ENTING		
Depth From	in Feet To	Hole Diameter	Sack of Mu		bic Feet Cement	Method o	of Placement	
Tion	10	Diameter			Content	<u> </u>		
	<del> </del>	<u> </u>	<del> </del>					
		1						
			<u> </u>					
			64:-	5 DI HCCIN	C RECORD			
veeine Cont	ractor			n 5. PLUGGIN	G RECORD			
ddress						Depth in Fee		
	od ged					Top Be	ottom of Cement	
ugging appro		•			2			
•		State Engi	ineer Represe	entative	3 4			
			~n		and the same	·		
			FOR USE	OF STATE EN	GINEER ONLY			
ate Received			FOR USE				FSL	

Section 6. LOG OF HOLE							
Depth	in Feet	Thickness					
From	To	in Feet	Color and Type of Material Encountered				
0	7	1	topooil				
-	-						
1	28	27	ealiche				
	-35	7	hard rod rock				
<del>35</del>	-65	30	white xwck				
65	76	-11	- send				
<del>76</del>	102	26	sendstone, layers of send				
	204	20	designations. Values of sens				
	120	10	white 4 red rock, clay				
200			***************************************				
120	125		elsy 6 gravel				
		}					
125	127-	2	ted bed				
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Section 7. REMARKS AND ADDITIONAL INFORMATION

Kobbe,
7.0.E

The undersigned hereby	rtifies 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 RENDER	

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.

Section 1. GENERAL INFORMATION Well #

Street or	Post Office Add	dress		70x 1980 34 3884		Owne		
				·				
ell was drilled	l under Permit l	No			and is located	in the:		
a	_ ¼ ¼	¼	¼ of Sec	ction	_ Township	Rai	nge	N.M.P.
b. Tract	No	_ of Map No.		of the				
				of the_				
Subdi	vision, recorded	in		Co	unty.			
					. Coordinate S	System		Zone Gran
B) Drilling C	Contractor		Lax	ny's trill	ing	_ License No.	882	
						44		
rilling Began .	9-4-28	Com	oleted <b>g</b> .	<del></del>	Type tools	imicone	Size of h	ole <b>i7/8</b> i
levation of lar	nd surface or			at well	is	ft. Total depth	of well	100f
ompleted well	lis 🗆 sh	allow 🗆 a	rtesian.	D	epth to water	upon completion	of well	
	·	Sec	tion 2. PRIN	CIPAL WATER-	BEARING ST	RATA		
Depth	in Feet	Thickness	r	Description of W	ater-Bearing F	ormation		ated Yield
From	To 100	in Feet		end & sands			(gailons	per minute)
0				see!?		<del></del>		
	>							
- 34	48	-14		ma I elas:	thin leve	erp of sands	tona	
4	TIE!		- N	erd white r	ock			
	<b>-</b> .		Section	a 3. RECORD O	F CASING			
Diameter	Pounds	Threads	Depth		Length	Type of Sho	P	erforations
(inches)	per foot	per in.	Тор	Bottom	(feet)		Fro	m To
5	162570		-1	109	101			
	q	nathe pull	lad 5 hal	u plugged				
······································	· · · · · · · · · · · · · · · · · · ·	Section	on 4. RECOR	D OF MUDDIN	IG AND CEMI	ENTING	····	
Depth i	in Feet	Hole	Sack		ic Feet		d of Placeme	.nt
From	То	Diameter	of Mu	id of (	Cement			
			<u> </u>					
			Section	s. PLUGGING	RECORD			
	ctor			:		. •		
ugging Contra					- No.	Depth in	Feet	Cubic Feet
ddress						Тор	Bottom	of Cement
ddress ugging Metho	d							
ddress ugging Metho ate Well Plugg	ded				2			
ddress ugging Metho ate Well Plugg	ded		neer Represe	ntative	2 3 4			
ddress ugging Metho ate Well Plugg	ded		neer Represe	ntative  OF STATE ENG	3 4	· · · · · · · · · · · · · · · · · · ·		
ddress	ded		neer Represe	OF STATE ENG	- 3 4	/ FWL _		

Section 6. LOG OF HOLE							
Depth	in Feet	Thickness	Color and Type of Material Encountered				
From	То	in Feet	Color and Type of Material Encountered				
		ļ					
	-3	3	topiest				
	34	31	callets .				
34	48	24	sand & niny, thin layers of sandstone				
•••			The same of the sa				
<del>48</del>	54		herd white youk				
		1					
54	72	38	ment, thin layers of sandatone				
	95		<b>धरहरति देशा</b>				
			th Anna villa de trans				
	1:00	3	ક્યાર્વ				
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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.

	WELL RECORD
Section	1. GENERAL INFORMATION

A) Owner of	f well	10M D41	& Conser	wition		Own	er's Well No	
Street or	Post Office Ad	ldress	-Box 1400	<b>.</b>			<del></del>	
City and	State	Beb	bu, 10: U!	1240				
Vell was drilled	d under Permit	No	L 95air		and is locat	ed in the:		
							nge	NMP
a	74 74	74	74 01 36	ction	Township	-163 Na	iige 36E	14,141.1
b. Tract	No	of Map No.	•	of ti	ne			
c. Lot N	0	of Block No		of th	ne			
	vision, recorded							
d. X=		feet. Y=		feet. I	N.M. Coordina	te System		Zone
		•						
3) Drilling C	Contractor	Laz	ry'o Cril	Lizzy.		License No	WD882	!
			1 ti Pané					
rilling Began .	9-5-84	Comp	pleted	-84	Type tools	tricone	Size o	f hole 7 7/8
lavation of lan	nd murface or			at w	all ia	ft. Total depth	of wall	100
ievation of lar	nu surrace or			at w	CII IS	rt. Total depti	i oi weii	
ompleted wel	lis 🗆 si	nallow 🔲 a	rtesian.		Depth to wa	ter upon completio	of well	
	•	Sec	tion 2. PRIN	CIPAL WATI	ER-BEARING	STRATA		
Depth	in Feet	Thickness	ļ ,	Description of	f Water Rearing	Formation		mated Yield
From	То	in Feet		Description of Water-Bearing Formation		(gallons per minute)		
62	80	16	eat	d & sandi	tose			
·			-		*********		<del> </del>	
:								
	<u></u>	L	- · · · ·	2 DECON!			· · · · · · · · · · · · · · · · · · ·	
Diameter	Pounds	Threads		in Feet	D OF CASING Length			Perforations
(inches)	per foot	per in.	Тор	Bottom	(feet)	Type of She	pe F	rom To
5	1607VC							
				100	101			
		casing pu	lled & he	le plugge	<b>-</b>			
	····	Section	on 4 RECOL	D OE MIIDI	DING AND CE	MENTING		
Depth	in Feet				Cubic Feet		1 ( 5)	
From	То	Diameter	of Mu		of Cement	Metne	od of Place	ment
	1			ļ				
<del> </del>								_
			-					
			Section	n 5. PLUGGI	NG RECORD			
	ector					Depth in	East	Cubic Foot
ugging Metho	d				No.	Top	Bottom	Cubic Feet of Cement
ate Well Plugg ugging approv	ed							
Co O WP P1 O								
		State Engi	neer Represe	ntative	4			<u> </u>
			FOR USE	OF STATE E	NGINEER ON	ILY		
te Received				Δ		FWL _		ECI
				Quae	J	FWL _	····	rst
File No	<del></del>			Use		_ Location No		

Section 6. LOG OF HOLE

Depth in	Section 6. LOG OF HOLE		
From	То	Thickness in Feet	Color and Type of Material Encountered
0			topasil
	39	35	ealiche
			F44.3 C
39	62	23	gend, clay, this layer of sendstone
62	80	18	SADA 5 40% SATORA
80	100	20	fine send
		1	
	4.2		
		•	
	·		
		· · · · · · · · · · · · · · · · · · ·	
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Section 7. REMARKS AND ADDITIONAL INFORMATION

The undersigned hereby	rtifies that, to the best of his knowledge and belief, the foregoing is a traze of Willelfee corp. the ab HOBBS, NEW TENDER	ove
described hole.	HORBS, NEW MEXICO 88240	<b>)</b> ,
	MEXICO BB245	

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.

Section 1. GENERAL INFORMATION

U-11 47

b. Tract No  c. Lot No Subdivision  d. X= the  B) Drilling Contraddress  Drilling Began  Glevation of land sure completed well is  Depth in Ferrom	office Addr er Permit No  of n, recorded in  factor  frace or  shal	of Map No Block No.  Geet, Y=  Com	Larry and Larry	of of of of or of	the the County.  N.M. Coordinate  Habbs M	License Now Exicutes  ft. Total dept for upon completions	Size on of well	of hole 7/4	Zone iz Grant in in	
b. Tract No c. Lot No Subdivision d. X= the B) Drilling Control Address Orilling Began Selevation of land succession of land	of n, recorded in factor shall	of Map No Block No.  eet, Y=  Com low : Sec Thickness in Feet	Larry 8 2501 15 pleted	of of feet of the	the Township the County.  Township the County.  Type tools well is Type tools TER-BEARING	License Now Exicutes  ft. Total dept for upon completions	Size on of well	of hole 7/4	Zone iz Grant in in	
b. Tract No c. Lot No Subdivision d. X= the B) Drilling Control Address Orilling Began Selevation of land succession of land	of n, recorded in factor shall	of Map No Block No.  n  eet, Y=  Com low  Sec Thickness in Feet	Larry and artesian.	of of feet  Prilli- Bendur  at	the Township the County.  Township the County.  Type tools well is Type tools TER-BEARING	License Now Exicutes  ft. Total dept for upon completions	Size on of well	of hole 7/4	_ Zone i _ Gran ir ir f	
b. Tract No  c. Lot No Subdivision  d. X= the  B) Drilling Contraddress  Drilling Began  Glevation of land sure completed well is  Depth in Ferrom	of  recorded in  f  actor  f  actor  shal	of Map No Block No.  Geet, Y=  Com low  Sec Thickness in Feet	2501 13. pleted	of feet Prillipader  3 Prillipader  -6-84  at	the the County.  N.M. Coordinate  N.M. Coordinate  Type tools  Well is Type tools  Depth to was  TER-BEARING	License No. Licens	Size on of well	of hole 7/4	Zone i Gran	
Subdivision  d. X= the  B) Drilling Control  Address  Orilling Began  Selevation of land sure completed well is  Depth in Fe	factor shall	low :	7501 K.	feet Prilli Bendur -6-84 at	County, N.M. Coordinate	License No. Licens	Size on h of well	of hole 7/4	Gran	
d. X=	s-54  rface or shal	ceet, Y=Com_low	75C1 II.	Prilli Fondur -6-84 at	. N.M. Coordinate  . Hebbs . IM  . Type tools  well is	License Now	Size of well	of hole 7/4	Gran	
the	s-54  rface or shale.	Low [] a Sec Thickness in Feet	2501 tr., pleted	Prilli Bendur )-6-84 at	Type tools well is Depth to wait	License Now	Size of well	of hole 7/4	Gran	
orilling Began 9~10 Clevation of land surface well is  Depth in Fe	rface or shall	low : Sec Thickness in Feet	nsc1 K,	at	Ter-BEARING	Ericuna  ft. Total dept er upon completio	Size on the of well	of hole 7/4	ii	
Drilling Began	rface or shale.	Low Com	artesian.	at	Type tools well is Depth to wal	ft. Total dept er upon completio	Size of well	of hole 7/4	ii	
ompleted well is  Depth in Fe	rface or shal	low	artesian.	at	well is	ft. Total dept er upon completio	on of well	151	<b>]</b> f	
Ompleted well is  Depth in Fe	shal	low Sec Thickness in Feet	artesian.	CIPAL WA	Depth to wat	er upon completio	on of well	imated Yie	f	
Depth in Fe	et To	Sec Thickness in Feet	etion 2. PRIN		TER-BEARING	STRATA	Est	imated Yie		
From	То	Thickness in Feet	3						ld	
From	То	in Feet		Description	of Water-Bearing	Formation			ld	
		73				, i Olimation	[ (gallo	ons per min		
			# 52.13E	sand & sandatous						
	<del></del>							7.00		
·····					,					
			Sectio	n 3. RECO	RD OF CASING					
	ounds er foot	Threads per in.	Depth Top	in Feet Bottom	Length (feet)	Type of Sh	100	Perforati From	ons To	
5 10	FORTC		-1	153	154					
	well	essine :	nalled as	1 2011	1					
	.		<i>u</i> 1 ,							
	-, <u>,</u> <u>l</u>	Secti	on 4. RECO	RD OF MU	DDING AND CE	MENTING	<del></del>			
Depth in Fe From	et	Hole Diameter	Sacl of M		Cubic Feet of Cement	Meth	od of Place	ement		
		,	<del> </del>							
				<del></del>						
			· .							
		,	J							
lugging Contractor			Sectio	n 5. PLUGO	GING RECORD					
ddress lugging Method					No.	Depth ir	Feet Bottom		Feet	
ate Well Plugged						Top	Болош	Or Co	ment	
lugging approved by	y ·	State Fno	ineer Represe	entative	3					
		State Eng			L 4					
ate Received			FOR USE		ENGINEER ON			<b>n</b>		
				Qι	1ad	FWL		FSL		

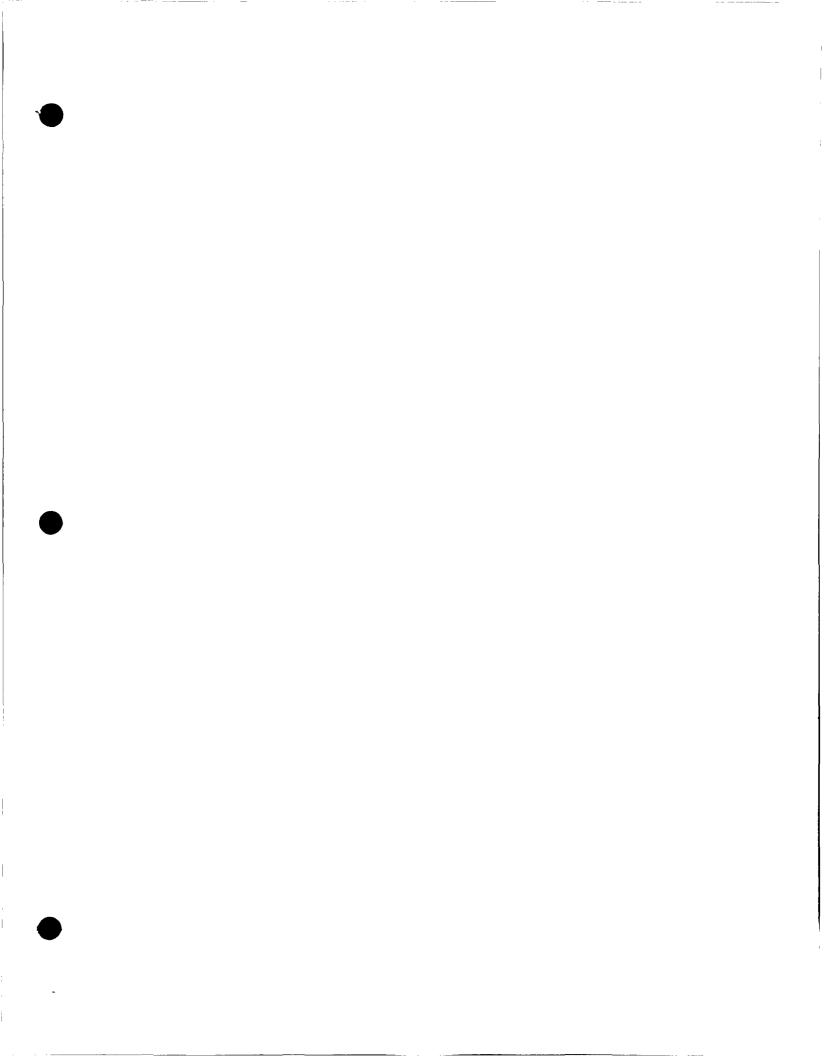
		T	Section 6. LOG OF HOLE
Depth in From	Feet To	Thickness in Feet	Color and Type of Material Encountered
From	10		
		1	topeoil
	•		
-3	-5		clay
_ 5	17	12	enlisha
			#
-17	21	<b></b>	sand
- 11	39	18	ealiche
	40		send & elay
39	49	20	
49		8	hard white reak
			sand & sandstone layers
- 57	- 94	37	Sana e senantone suyere
-94	- 97	3	conditions
			neni, elay, this conditions
- 97	130	33	
130 <del>+</del>	1515	21	ealy & small gravel
151	153	2	reibed
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		)	
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		- <del></del>	
			)
	<del></del>		
	<u> </u>		

Section 7. REMARKS AND ADDITIONAL INFORMATION

The undersigned hereby certifies the	t, to the best of his knowled	ge and belief, the foregother is a top and	correct record of the above
described hole.		ge and belief, the foregoffic is toward and Research	NG & PUMP CO.
		HOBBS, NEW	AENDER

Driller

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- DRY HOLE

OIL WELL

FRESH WATER SAMPLE WELL

CONTOUR CHLORIDE CONTENT C.I. = 5000 PPM 10000

CHLORIDE CONTENT 100 PPM

SCALE | INCH = 330 FEET 1: 3960

NEW MEXICO OIL CONSERVATION DIVISION FUQUA WATER STUDY

6 - 16 - 36