1R-234

REPORTS

DATE: 1993

CURA, INC. 3001 North Big Spring Suite 101 Midland, Texas 79705 (915) 570-8408 FAX (915) 570-8409

PHASE II ENVIRONMENTAL SITE ASSESSMENT

DENTON STATION LEA COUNTY, NEW MEXICO

CURA PROJECT NO. 15-92567001.3

RECEIVED

NOV 1 5 1993

OIL CONSERVATION DIV. SANTA FE

SHELL PIPE LINE CORPORATION TWO SHELL PLAZA P.O. BOX 2099 **HOUSTON, TEXAS 77252-2099**

March 12, 1993

F. Wesley Root _

Environmental Geologist

Reviewed By:

Greg C. Walterscheid, R.E.M

Project Manager

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Vice President - Hazardous and Solid Waste



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1.0 REPORT SUMMARY

1.1 EXECUTIVE SUMMARY

The site, Denton Station, is located approximately 13 miles northeast of Lovington in Lea County, New Mexico (Appendix A, Figure 1) and is utilized as a crude oil pipeline pump station.

A review of the analytical results from the Preliminary Site Assessment conducted during December 1992 indicated hydrocarbon-impacted soils (>100 ppm TPH) at a depth of 3 to 5 feet (580 ppm TPH), 11 to 12 feet (970 ppm TPH), and 15 to 17 feet (110 ppm TPH) in boring B-2. Boring B-3 recorded a TPH level of 240 ppm in the 6 to 6.5 foot interval at the bottom of the boring. Based on these analytical results, the sump and pump equipment located in the southeast corner of the site were identified as potential sources of the crude oil impacted soils observed on site.

Based on the findings of the Preliminary Site Assessment, four additional soil borings (B-8 through B-11) were performed on February 8, 1993 to further delineate the horizontal and vertical extent of the hydrocarbon-impacted soils previously identified in borings B-2 and B-3.

Benzene levels measured below method detection limits of 0.001 ppm in each sampled interval of borings B-8 through B-11. The total BTEX levels ranged from below method detection limits of 0.001 ppm in various intervals to 0.005 ppm in the 20 to 22 foot interval of boring B-8. TPH levels ranged from below method detection limits of 10 ppm in various boring intervals to 50 ppm in the 15 to 17 foot interval of boring B-8. The current New Mexico Oil Conservation Division (OCD) recommended remediation levels for crude oil impacted soils are 10 ppm benzene, 50 ppm total BTEX, and either 100 ppm,



1,000 ppm, or 5,000 ppm TPH depending upon the risk assessment ranking for the site.

Based on the data obtained, the extent of hydrocarbon-impacted soils near the sump and pump equipment in the southeast corner of the site is limited to an area less than 100 feet long (east - west) and 50 feet wide with a maximum depth of 20 feet.

Groundwater was not encountered during this subsurface investigation, however, during subsequent operations by Shell Pipe Line Company to plug and abandon the on site water well, crude oil was identified to be present in the well bore. During investigation and crude oil recovery operations performed by CURA on February 26, 1993, a crude oil thickness of approximately 7.97 feet was measured at a depth to water of approximately 58 feet below ground surface. Subsequent measurement on March 5, 1993 measured approximately 3.45 feet of crude oil overlying water. The extent of the impacted area and potential source are currently unknown. Possible sources are subsurface pipelines, and off-site oil production facilities.



1.2 SCOPE OF SERVICES

The following scope of services was conducted for the Phase II - Environmental Site Assessment:

- Met with Shell Pipe Line Corporation to determine additional boring locations in order to further delineate the extent of hydrocarbonimpacted soils discovered during the Preliminary Site Assessment conducted in December 1992.
- Performed soil borings and obtained soil samples to aid in classifying subsurface conditions with respect to petroleum hydrocarbons.
- Constructed a soil hydrocarbon concentration map to help delineate the horizontal and vertical extent of hydrocarbon-affected soils.
- Assembled soil profile columns from soil boring logs and reviewed the soil classification for the site area.
- Summarized findings in the Phase II Environmental Site Assessment Report.





2.0 INTRODUCTION

During December 1992, CURA was contracted by Shell Pipe Line Corporation to conduct a Preliminary Site Assessment (report dated January 15, 1993) prior to a planned site divestment. Based on the discovery of hydrocarbon-impacted soils in boring B-2 and B-3, the sump and pump equipment located in the southeast corner of the site were identified as potential sources.

A Phase II - Environmental Site Assessment (this report) was performed on February 8, 1993 to further delineate the extent of hydrocarbon-impacted soils near borings B-2 and B-3, and to provide a more comprehensive assessment of the subsurface soil conditions. The site, Denton Station, is located approximately 13 miles northeast of Lovington in Lea County, New Mexico (Appendix A, Figure 1).



3.0 SITE DESCRIPTION

Denton Station is utilized as a crude oil pipeline pumping station in which subsurface crude oil field lines from various oil field leases are manifolded into the main subsurface discharge pipeline currently operated by Shell Pipe Line Corporation. Two inactive 10,000 gallon aboveground crude oil storage tanks (Tanks 1979 and 1980) are located in the northwestern portion of the site (Appendix A, Figure 2) and are surrounded by an earthen dike. A pumping station and small single-walled steel sump are located in the southeast quarter of the site approximately 80 feet south of an abandoned water well. A pipeline scraper gate is located south of the sump near the property boundary.

Denton Station is bounded on the north, east and south by barbed-wire fencing and to the west by range land. A locked gate is located near the center of the east property boundary. The site is located in a rural area within the Denton Oil Field. No residences, public buildings, or surface bodies of water were observed within a 1,000 foot radius of the facility. An abandoned water well is present on site and 4 additional water wells are located between 2,000 to 2,500 feet from the site to the northwest. The current status of these wells is unknown.

Page 3-1 ◆
 March 12, 1993

4.0 SITE HYDROGEOLOGY

The site is located in Lea County, New Mexico, within the High Plains physiographic province of New Mexico and Texas.

The late Miocene to Pliocene age Ogallala Formation is the major water-bearing formation in the area and consists of semiconsolidated fine-grained calcareous sand overlain by a thick layer of caliche. The formation contains some clay, silt, and often a basal gravel. It is a heterogeneous complex of terrestrial sediments deposited over an irregular erosional surface cut into the underlying Cretaceous and Triassic rocks. The Ogallala Formation outcrops in the site area and often forms a continuous aquifer with the underlying rocks.

Other than the abandoned on-site well, no water wells were observed within a 1,000 foot radius of the site. Based on a water well search performed by Geosource Inc., (GI; January 11,1992), the abandoned well is not registered with the State of New Mexico. The well is constructed of 10 inch steel casing near the surface and is currently open to a depth of 97 feet. Four additional water wells are located between 2,000 to 2,500 feet from the site to the northwest. The current status of these wells is unknown.

According to the U.S.G.S. Prairieview, New Mexico, topographic quadrangle, the site is approximately 3,780 feet above mean sea level (Figure 4). The general trend of the local topography and surface drainage of the site area is to the southeast.

The soils on site belong to the Portales Series consisting of well-drained, sandy loam soils that have a sandy clay loam subsoil. These soils formed in strongly calcareous wind-deposited and water-deposited sediments in depressions, swales and along playa lakes. Typically, the surface layer is a dark brown loam about 8 inches thick. The subsoil is pale-brown sandy clay loam to a depth of 26 inches. This is underlain by

very pale brown calcareous sandy silty loam (caliche) to a depth of 60 inches. The soils described in the soil survey are generally consistent with the observed soil on site.

Subsurface conditions were similar for borings B-1 through B-12. The soils consisted of dark to light brown slightly calcareous sand (SM) underlain by buff white to pink calcareous sand (caliche). A vuggy interval was present from 7 feet to 13 feet in the buff-white calcareous sand (caliche) of boring B-2. The soil boring logs included in Appendix B provide a more detailed description of the subsurface conditions.

Currently, the groundwater in the site area is used for industrial and livestock purposes. The water wells located between 2,000 to 2,500 feet northwest of the site produce from depths ranging from 38 feet to 120 feet with well yields ranging from 5 gpm to 20 gpm. The drinking water in Lovington, the nearest municipality, is supplied from a well field located approximately 3 miles south of the city that produces from the Ogallala Formation at a depth of 80 to 210 feet.

A field survey of the site and surrounding area was conducted to identify potential receptors (residences, public buildings, water supply wells, and surface bodies of water) in the site vicinity. No residences or public buildings were identified within a 1000 foot radius of the site. The abandoned on-site water well is the only well identified within a 1000 foot radius of the site.

♦ Page 4-2 ♦

5.0 HYDROGEOLOGIC INVESTIGATION AND FINDINGS

5.1 SOIL INVESTIGATION

5.1.1 SOIL BORING LOCATIONS

The locations of borings B-8 through B-11 were chosen based on the discovery of hydrocarbon-impacted soils in boring B-2 and B-3 during the Preliminary Site Assessment which indicated the potential source of the crude oil contamination is the sump and pump located in the southeast corner of the site.

Borings B-8 and B-9 were placed southwest and west of the hydrocarbon-impacted soils identified in borings B-2 and B-3. Boring B-10 was located north of the pump equipment and approximately 30 feet west of the abandoned water well. Boring B-11 was placed downgradient (southwest) with respect to the observed local surface drainage to the potential sources.

5.1.2 SOIL SAMPLING OPERATIONS

Soil samples were retrieved from the borings to be analyzed for benzene, toluene, ethylbenzene, xylenes (BTEX) and total petroleum hydrocarbons (TPH). Samples were obtained at five foot intervals in each boring using a split spoon sampling device. The soil sample obtained from each interval was split into two separate containers. One sample was placed into a glass jar with teflon-lined lids and zero head space and preserved at 4°C in accordance with EPA protocol for shipment to the laboratory. The other soil sample from each interval was placed in a sample jar and field-screened (head space analysis)

♦ Page 5-1 ♦

with a flame ionization detector (FID) Century 128 Organic Vapor Analyzer (OVA). The OVA detects volatile petroleum and non-petroleum organic compounds in parts per million (ppm) methane equivalent.

5.1.3 SOIL SAMPLE ANALYTICAL RESULTS

OVA readings ranged from <1 ppm in several sampled intervals of borings B-8 through B-11 to 2 ppm in the 5 to 7 foot interval of borings B-8 and B-9. Two to three samples from each boring were submitted for laboratory analyses. The sample with the highest relative OVA reading and the sample at the total depth of each boring unless noted otherwise were submitted to the laboratory for BTEX and TPH analyses using EPA-approved analytical methods (EPA Method 8020 and EPA Method 418.1, respectively). Complete OVA readings and a listing of those samples submitted to the laboratory are presented in Table 1. No hydrocarbon staining or odors were observed during sampling operations.





	TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS												
Boring	Date Sampled	Sample Interval (feet)	OVA	Benzene	Toluene	Ethyl- benzene	Xylenes	Total BIEX	ТРН				
B-1	12-07-92	2 - 4	<1	< 0.001	0.003	< 0.001	< 0.001	0.003	30				
		7 - 9	<1	< 0.001	0.002	< 0.001	0.003	0.005	27				
B-2	12-07-92	1 - 3	2										
		3 - 5	9	0.001	0.013	0.007	0.032	0.053	580				
		5 - 7	<1						:				
		10 - 11	20										
		11 - 12	>1000	< 0.001	0.025	0.160	0.180	0.365	970				
		14 - 15	<1										
		15 - 17	<1	< 0.001	0.004	0.002	0.006	0.012	110				
B-3	12-07-92	4 - 5	<1										
		6 - 6.5	<1	< 0.001	0.003	< 0.001	0.005	0.008	240				
B-4	12-07-92	1 - 3	2	< 0.001	0.004	0.001	0.007	0.012	57				
		3 - 5	1										
	!	5 - 7	1										
		7 - 9	<1	< 0.001	0.003	0.001	0.005	0.009	18				
B-5	12-07-92	1 - 3	3	0.003	0.019	0.008	0.041	0.071	23				
		8 - 9	<1				·						
		11 - 13	<1	< 0.001	0.002	< 0.001	0.001	0.003	35				
В-6	12-07-92	5 - 7	5	< 0.001	0.003	< 0.001	< 0.001	0.003	14				
		10 - 12	<1										
		15 - 17	<1	< 0.001	0.004	< 0.001	< 0.001	0.004	16				
B -7	12-07-92	0 - 2	<1										
		2 - 4	4	< 0.001	0.004	< 0.001	0.008	0.012	28				
		5 - 7	3										
		10 - 12	1	< 0.001	0.003	< 0.001	0.002	0.005	27				
		15 - 17	<1										
		20 - 22	<1	< 0.001	0.001	< 0.001	< 0.001	0.001	19				

	TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS											
Boring	Date Sampled	Sample Interval (feet)	OVA	Renzene	Toluene	Ethyl- benzene	Xylenes	Total RTEX	TPH			
B-8	02-08-93	1 - 3	1									
		5 - 7	2	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	10			
		10 - 12	<1									
		15 - 17	<1	< 0.001	< 0.001	< 0.001	0.001	0.001	50			
		20 - 22	<1	< 0.001	< 0.001	0.002	0.003	0.005	30			
B -9	02-08-93	1 - 3	1	< 0.001	< 0.001	< 0.001	0.001	0.001	30			
		5 - 7	2									
		10 - 12	<1									
_		15 - 17	<1	< 0.001	0.001	< 0.001	0.001	0.002	30			
B-10	02-08-93	1 - 3	<1									
		5 - 7	1	< 0.001	< 0.001	< 0.001	0.002	0.002	30			
		10 - 12	<1									
		15 - 17	<1	< 0.001	< 0.001	< 0.001	0.001	0.001	20			
B-11	02-08-93	1 - 3	1									
		5 - 7	1	< 0.001	< 0.001	< 0.001	0.001	0.001	40			
		10 - 12	<1									
		15 - 17	<1									
		20 - 22	<1	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	10			

OVA results listed in parts per million (ppm) equivalent methane.

BTEX results in mg/kg (parts per million; ppm) with method detection limits listed in Appendix C.

TPH results in mg/kg (parts per million; ppm) with method detection limits listed in Appendix C.

Analyses were conducted using EPA Method 8020 (BTEX) and EPA Method 418.1 (TPH) by SPL Environmental Laboratories.

A review of the analytical results from the Preliminary Site Assessment conducted during December 1992 indicated hydrocarbon-impacted soils (>100 ppm TPH) 3 to 5 feet (580 ppm TPH), 11 to 12 feet (970 ppm TPH), and 15 to 17 feet (110 ppm TPH) in boring B-2. Boring B-3 recorded a TPH level of 240 ppm in the 6 to 6.5 foot interval at the bottom of the boring.

Results from this phase of the investigation recorded benzene levels below method detection limits of 0.001 ppm in every sampled interval of Borings B-8 through B-11. The total BTEX levels ranged from below method detection limits of 0.001 ppm in the 5 to 7 foot interval of B-8 and the 20 to 22 foot interval of B-11 and B-11 to 0.005 ppm in the 20 to 22 foot interval of boring B-8. TPH levels ranged from below method detection limits of 10 ppm in the 5 to 7 foot interval of boring B-8 to 50 ppm in the 15 to 17 foot interval of boring B-8. Hydrocarbon concentrations are illustrated on the site map (Appendix B, Figure 2) to indicate soil sample depths and the corresponding hydrocarbon concentration levels.

A summary of the analytical results is presented in Table 1. Laboratory reports and the chain-of-custody are included in Appendix C.

5.2 GROUNDWATER ASSESSMENT

Groundwater was not encountered during drilling operations. However, during subsequent operations by Shell Pipe Line Company to plug and abandon the water well located near the eastern boundary of the site, crude oil was identified in the well bore.

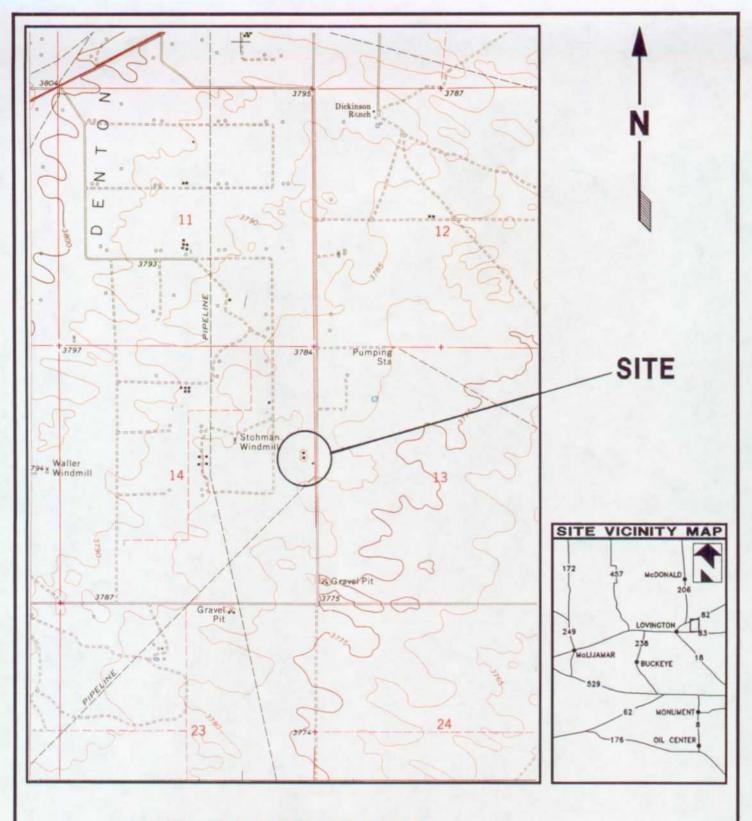
On February 26, 1993, CURA investigated the contents of the abandoned well and removed any phase separated hydrocarbons present in the well bore. The well was visually checked for phase-separated hydrocarbons with a clear PVC bailer and measured with a Keck (Model KIR-89) oil/water interface probe. Depth to groundwater was measured at 60.23 feet below the top of casing with an overlying crude oil thickness of 7.97 feet before bailing operations. Approximately 35 gallons of crude oil were recovered and discharged into the on-site pipeline sump. Subsequent measurements on March 5, 1993 recorded a crude oil thickness of 3.45 feet and a depth to groundwater of 56.54 feet. The extent of the impacted area and potential source are currently unknown. Possible sources are subsurface pipelines, and offsite oil production facilities.

6.0 CONCLUSIONS

- 1. An abandoned water well is present on site. No other potential receptors were identified within a 1,000 foot radius of the site. other than the abandoned onsite water well.
- 2. Based on the data obtained, the extent of hydrocarbon-impacted soils near the sump and pump equipment in the southeast corner of the site is limited to an area approximately less than 100 feet long (east west) and 50 feet wide with a maximum depth of 20 feet.
- 4. Groundwater was not encountered during this subsurface investigation, however, based on the presence of crude oil in the abandoned on site water well, hydrocarbon-impacted groundwater (phase separated hydrocarbons) is possible.

7.0 APPENDICES

APPENDIX A FIGURES



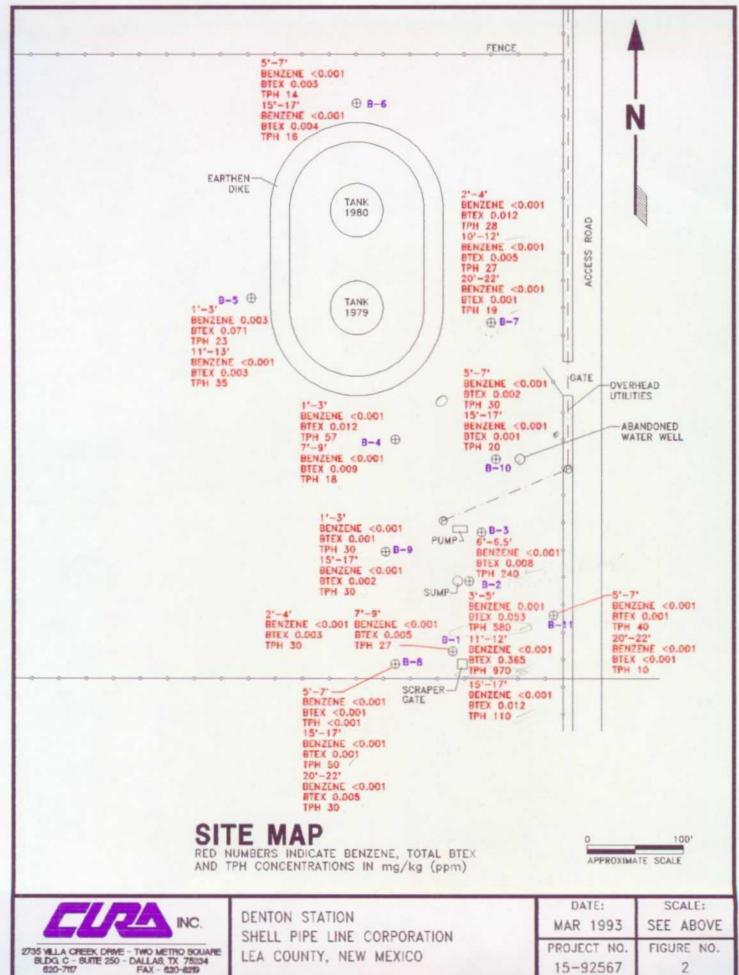
SITE LOCATION MAP

REF: USGS PRAIRIEVIEW, NEW MEXICO TOPOGRAPHIC QUADRANGLE (1970)



2735 VILLA CREEK DRIVE - TWO METRO SQUARE BLDQ, C - SUITE 250 - DALLAS, TX 75234 620-7117 FAX - 620-8219 DENTON STATION
SHELL PIPE LINE CORPORATION
LEA COUNTY, NEW MEXICO

DATE:	SCALE:				
MAR 1993	1"≃ 2000'				
PROJECT NO.	FIGURE NO.				
15-92567	1				



LEA COUNTY, NEW MEXICO

15-92567 2 APPENDIX B
BORING/WELL LOGS



RECORD OF SUBSURFACE EXPLORATION

Project No.: 15-92567

Project: DENTON STATION

LEA COUNTY, NEW MEXICO

Drilling Co: HI PLAINS DRILLING

Driller: B.S.

Drilling Method: AIR ROTARY

Well/Boring #: B-1

Depth of Boring: 9 FEET

Depth of Well: -

Length of Screen: -

Length of Casing: -

Logged By: F.W.R.

Date Drilled: 12/07/92

Diameter of Boring:5 1/8 INCHES

Diameter of Screen: -

Diameter of Casing: -

Slot Size: -

Well Material GROUT

5	MECHOG: AIR ROTARY		LOY- F.W.F	··		WEI MALETIAL GROUT
DEPTH FEET	SOIL DESCRIPTION	SAMPLE NUMBER	SAMPLE TYPE	OVA (PPM)	WELL. DESKAN	REMARKS
0	Buff & pink silty calcareous SAND (caliche)					o —
- 2.5 		1	SS	<1		Benzene <0.001 mg/kg 2.5— BTEX=0.003 mg/kg - TPH=30 mg/kg -
- - - - -	•			!		5.0 - -
- 7.5 - -		2	SS	<1		Benzene <0.001 mg/kg 7.5 BTEX=0.005 mg/kg TPH=27 mg/kg
_ 10.0 _ _	Bottom of boring @ 9.0 feet				ļ	10.0
- 12.5 		,	:			12.5
- 15.0 				!		15.0
_ - 						17.5
_ 20.0 						20.0
 22.5 	,					
_ 25.0 						25.0
_ _ 27.5 _						 27.5 —
30.0 				į		30.0
_						

SS-Driven Split Spoon ST-Pressed Shelby Tube CA-Continuous Flight Auger RC-Rock Core ST-Pressed Shelby Tube
CA-Continuous Flight Auger
RC-Rock Core
THD-Texas Highway Department Cone
CT-5' Continuous Sampler

CT-5' Continuous Sampler

CT-5' Continuous Sampler

ABBREVIATIONS AND SYMBOLS

Water on Rods

Sample submitted to lab
Bottom Cap Factory—Slotted
Well Screen

Sand Pack Bentonite Seal

Well Casing Voloclay Grout Seal



RECORD OF SUBSURFACE EXPLORATION

Project No.: 15-92567

Project: DENTON STATION

LEA COUNTY, NEW MEXICO

Drilling Co: HI PLAINS DRILLING

Driller: B.S.

Drilling Method: AIR ROTARY

Well/Boring #: B-2

Depth of Boring: 17 FEET

Depth of Well: -

Length of Screen: -

Length of Casing: -

Logged By: F.W.R.

Date Drilled: 12/07/92

Diameter of Boring:5 1/8 INCHES

Diameter of Screen: -

Diameter of Casing: -

Slot Size: -

Well Material GROUT

	Neurod Air Rotart					
DEPTH FEET	SOIL DESCRIPTION	SAMPLE NUMBER	SAMPLE TYPE	OVA (PPM)	WELL DESIGN	REMARKS
o	Dark gray & buff mottled SAND (SM)					o —
_ _ 2.5	Buff fine grained slightly calcareous SAND (SM)	1	SS	2		2.5—
		2	SS	9		Benzene=0.001 mg/kg — BTEX=0.053 mg/kg — TPH=580 mg/kg —
5.0 _ _ _		3	SS	<1		5.0 — - - -
 7.5 	Buff-white calcareous SAND (caliche)					7.5—
- 10.0		4	SS	20		Hydrocarbon odor 10.0 Benzene <0.001 mg/kg
 12.5		5	SS	>1000		BTEX=0.365 mg/kg TPH=970 mg/kg
- 12.5	Buff-white calcareous SAND (caliche)	6	SS			12.5 —
15.0	Buff-brown slightly calcareous SAND	7	SS	<1 <1		Benzene <0.001 mg/kg ^{15.0} — BTEX=0.012 mg/kg — TPH=110 mg/kg —
- - 17.5	Bottom of boring @ 17.0 feet					IPH=110 mg/kg 17.5
- - -						-
20.0 						20.0— - - -
 22.5 						22.5 — -
 25.0		:				- - 25.0 —
			:			
27.5 						27.5 —
- - 30.0						30.0 —
	Split Speen A DDDCV/A TIONS					Sample submitted to lab

SS-Driven Split Spoon SI-Pressed Shelby Tube CA-Continuous Flight Auger RC-Rock Core RC-Rock Core
THD-Taxas Highway Department Cone
CT-5' Continuous Sampler

CT-5' Continuous Sampler

CT-5' Continuous Sampler

CT-5' Continuous Sampler

ABBREVIATIONS AND SYMBOLS HSA-Hollow Stem Augers

• Water on Rods

Sample submitted to lab
Factory—Slotted
Well Screen Sand Pack Well Casing Voloclay Grout Seal Bentonite Seal



RECORD OF SUBSURFACE EXPLORATION

Project No.: 15-92567

Project: DENTON STATION

LEA COUNTY, NEW MEXICO

Drilling Co: HI PLAINS DRILLING

Driler: B.S.

Drilling Method: AIR ROTARY

Well/Boring #: B-3

Depth of Boring: 6.5 FEET

Depth of Well: -

Length of Screen: -

Length of Casing: -

Logged Ry: FWR

Date Drilled: 12/07/92

Diameter of Boring:5 1/8 INCHES

Diameter of Screen: -Diameter of Casing: -

Slot Size: -

Well Material: CROUT

Drilling N	Method: AIR ROTARY	Logged	I By: F.W.F	₹.		Well Material: GROUT
DEPTH FEET	SOIL DESCRIPTION	SAMPLE NUMBER	SAMPLE TYPE	OVA (PPM)	WELL DESKON	REMARKS
0	Buff-white calcareous SAND (caliche)					o
- - 2.5 -						2.5—-
_ _ 5.0		1	SS	<1		Benzene <0.001 mg/kg 5.0 - 9
7.0 -		2	SS	<1		Benzene <0.001 mg/kg 5.0— BTEX=0.008 mg/kg — TPH=240 mg/kg —
- - 7.5 -	Bottom of boring @ 6.5 feet	:				7.5
_ _ 10.0						 10.0
_						- - -
12.5 - - -						12.5
_ 15.0						15.0 —
_ _ 17.5						 17.5—
_ _ _						-
— 20.0 - -						20.0— - -
_ _ 22.5 _						22.5
_ _ _ 25.0						
						-
- 27.5 						27.5
_ 30.0						30.0 —
						-

SS-Driven Split Spoon ST-Pressed Shelby Tube CA-Continuous Flight Auger RC—Rock Core
THD—Texas Highway Department Cone
CT—5' Continuous Sampler

CFA—Continuous Flig
DC—Driving Casing
MD—Mud Drilling

ABBREVIATIONS AND SYMBOLS

HSA-Hollow Stem Augers CFA-Continuous Flight Augers

• Water on Rods

Sample submitted to lab
Bottom Cap Factory—Slotted
Well Screen

Sand Pack Bentonite Seal

Well Casing Volociay Grout Seal



RECORD OF SUBSURFACE EXPLORATION

Project No.: 15-92567

Project: DENTON STATION LEA COUNTY, NEW MEXICO

Drilling Co: HE PLAINS DRILLING

Driller: B.S.

Drilling Method: AIR ROTARY

Well/Boring #: B-4

Depth of Boring: 9.0 FEET

Depth of Well: -

Length of Screen: -

Length of Casing: -

Logged By: F.W.R.

Date Drilled: 12/07/92

Diameter of Boring:5 1/8 INCHES

Diameter of Screen: -

Diameter of Casing: -

Slot Size: -

Well Material: GROUT

D	WELLIOG AIR ROTARY		и Буч г. w.i			Well Material Grout
DEPTH FEET	SOIL DESCRIPTION	SAMPLE NUMBER	SAMPLE TYPE	OVA (PPM)	WELL DESKON	REMARKS
o 	Buff-white calcareous SAND (caliche)					0—
- - - 2.5		1	SS	2		Benzene <0.001 mg/kg BTEX=0.012 mg/kg TPH=57 mg/kg 2.5—
		2	SS	1		
5.0 - - -		3	SS	1		5.0
- 7.5 		4	SS	1		Benzene <0.001 mg/kg
_ _ 10.0 _	Bottom of boring @ 9.0 feet					10.0
_ _ _ 12.5						12.5 —
15.0 						15.0—
_ 17.5 _						17.5—
_ _ 20.0						20.0—
22.5 						22.5 — - - -
_ 25.0 _ _						25.0
_ - 27.5						27.5 <u> </u>
- - - 30.0					<u> </u>	30.0 —
						30.0
SSDriven	Solit Spage A DDDEVIATIONS		CVAROL			Sample submitted to lab

SS-Driven Split Spoon ST-Pressed Shelby Tube CA-Continuous Flight Auger RC-Rock Core
THD-Texas Highway Department Cone
CT-5' Continuous Sampler

ABBREVIATIONS AND SYMBOLS HSA-Hollow Stem Augers

Woter on Rods

Sample submitted to lab
Bottom Cap Factory-Slotted
Well Screen Well Casing Sand Pack Bentonite Seal 記記 Volociay Grout Seal



RECORD OF SUBSURFACE EXPLORATION

Project No.: 15-92567

Project: DENTON STATION

LEA COUNTY, NEW MEXICO

Drilling Co: HI PLAINS DRILLING

Driller: B.S.

Drilling Method: AIR ROTARY

Well/Boring #: 8-5

Depth of Boring: 13.0 FEET

Depth of Well: -

Length of Screen: -

Length of Casing: -

Logged By: F.W.R.

Date Drilled: 12/07/92

Diameter of Boring:5 1/8 INCHES

Diameter of Screen: -

Diameter of Casing: -

Slot Size: -

Well Material: GROUT

Draing N	METNOC: AIR ROTARY	Logged	I By: F.W.I	۲. 		Well Material: grout
DEPTH FEET	SOIL DESCRIPTION	SAMPLE NUMBER	SAMPLE TYPE	OVA (PPM)	WELL	REMARKS
— o	Dark-brown sandy LOAM (SM)					0-
2.5	Pink-buff slightly calcareous SAND (caliche)	1	SS	3		Benzene <0.001 mg/kg - BTEX=0.071 mg/kg - TPH=23 mg/kg 2.5-
- 5.0						5.0
_ _ 7.5	Pink—buff calcareous SAND (caliche)					7.5—
_	!	2	SS	<1		7.10
_ 10.0 						10.0
_ 12.5 _	Buff-brown slightly calcareous SAND (SM)	3	ss	<1		Benzene <0.001 mg/kg = BTEX=0.003 mg/kg = TPH=35 mg/kg 12.5 = -
_ _ _ 15.0	Bottom of boring @ 13.0 feet					 15.0
-						13.0
_ 17.5 _		:		:		17.5 <u> </u>
20.0						20.0
_ _ _ 22.5						- - 22.5 —
22.5 - -						22.5
_ 25.0 _	•					25.0 -
27.5						27.5 —
_ _ 						- - 30.0 —
_						

SS-Driven Split Spoon
SI-Pressed Shelby Tube
CA-Continuous Flight Auger
RC-Rock Core
THD-Texas Highway Department Cone
CT-5' Continuous Sampler

ABBREVIATIONS AND SYMBOLS

HSA-Hollow Stem Augers CFA-Continuous Flight Augers DC-Driving Casing MD-Mud Drilling • Water on Rods

Sample submitted to lab
Factory-Slotted
Well Screen

Sand Pack

Well Casing Bentonite Seal Voloclay Grout Seal



RECORD OF SUBSURFACE EXPLORATION

Project No.: 15-92567

Project: DENTON STATION

LEA COUNTY, NEW MEXICO

Drilling Co: HI PLAINS DRILLING

Driler: B.S.

Drilling Method: AIR ROTARY

Well/Boring #: 8-6

Depth of Boring: 17.0 FEET

Depth of Well: -

Length of Screen: -

Length of Casing: -

Logged By: F.W.R.

Date Drilled: 12/07/92

Diameter of Boring:5 1/8 INCHES

Diameter of Screen: -

Diameter of Casing: -

Slot Size: -

Well Material GROUT

O/	MELIOG AIR ROTART	99	. 			Wei Material GROOT	
DEPTH FEET	SOIL DESCRIPTION	SAMPLE NUMBER	SAMPLE TYPE	OVA (PPM)	WELL. DESIGN	REMARKS	
o _ _ _	Buff-white calcareous SAND (caliche)						o —
- 2.5 							2.5 - - -
- 5.0 		1	SS	5		BTEX=0.003 mg/kg TPH=14 mg/kg	5.0 - -
_ 7.5 _ _							7.5
 10.0 		2	SS	<1			10.0 —
_ 12.5 	Buff-pink calcareous SAND (caliche)						12.5
_ 15.0 		3	SS	<1		BTEX=0.004 mg/kg TPH=16 mg/kg	15.0
_ _ 17.5 _ _	Bottom of boring @ 13.0 feet					TEN=16 mg/kg	17.5
_ _ 20.0 _ _							20.0
- - 22.5 		:					22.5
_ _ 25.0 _							25.0 —
 27.5 							27.5
 _ 30.0							30.0
_	STA STATE		CVADOL			Sample submitted to la	

SS-Driven Split Spoon
ST-Pressed Shelby Tube
CA-Continuous Flight Auger
RC-Rock Core
THD-Texas Highway Department Cone
CT-5' Continuous Sampler

ABBREVIATIONS AND SYMBOLS

HSA-Hollow Stem Augers CFA-Continuous Flight Augers DC-Driving Casing MD-Mud Drilling Sample submitted to lab
Factory—Slotted
Well Screen

Sand Pack Well Casing

Bentonite Seal Voloclay Grout Seal



RECORD OF SUBSURFACE EXPLORATION

Project No.: 15-92567

Project: DENTON STATION

LEA COUNTY, NEW MEXICO

Drilling Co: HI PLAINS DRILLING

Driller: B.S.

Drilling Method: AIR ROTARY

Well/Boring #: B-7

Depth of Boring: 22.0 FEET

Depth of Well: -

Length of Screen: -

Length of Casing: -

Logged By: F.W.R.

Date Drilled: 12/07/92

Diameter of Boring:5 1/8 INCHES

Diameter of Screen: -

Diameter of Casing: -

Slot Size: -

Well Material: GROUT

Drilling N	Method: air rotary	Logged	By: F.W.I	R.	Well Material: GROUT		
DEPTH FEET	SOIL DESCRIPTION	SAMPLE NUMBER	SAMPLE TYPE	OVA (PPM)	WELL DESKON	REMARKS	
0	Pink-brown slightly calcareous SAND (SM)	1	SS	<1		0	
_ 2.5 _ _ _	Buff—brown slightly calcareous SAND (SM) with scattered caliche fragments	2	SS	4		Benzene <0.001 mg/kg 2.5 BTEX=0.012 mg/kg 2.5 TPH=28 mg/kg	
5.0		3	SS	3		5.0 5.0 	
- 7.5 -						7.5— 7.5—	
10.0		4	ss	1	=	Benzene <0.001 mg/kg 10.0 — BTEX=0.005 mg/kg ~ TPH=27 mg/kg —	
 12.5 						12.5 — -	
_ 15.0 		5	ss	<1		15.0 —	
_ _ 17.5 _						- - 17.5—	
20.0		6	SS	<1		Benzene <0.001 mg/kg 20.0— BTEX=0.001 mg/kg — TPH=19 mg/kg —	
_ 22.5 	Bottom of boring @ 22.0 feet	0	33			22.5 —	
- - - 25.0						25.0 —	
_ _ 27.5 _						27.5 — -	
_ _ 30.0						 30.0	
						Samula submitted to lab	

SS-Driven Split Spoon ST-Pressed Shelby Tube CA-Continuous Flight Auger RC-Rock Core THD-Texas Highway Department Cone
CT-5' Continuous Sampler

DC-Driving Casing
MD-Mud Drilling

ABBREVIATIONS AND SYMBOLS

HSA-Hollow Stem Augers CFA-Continuous Flight Augers

Water on Rods

Sample submitted to lab
Factory—Slotted
Well Screen

Bentonite Seal

Sand Pack

Well Casing Volociay Grout Seal



RECORD OF SUBSURFACE EXPLORATION

Project No.: 15-92567

Project: DENTON STATION

LEA COUNTY, NEW MEXICO

Drilling Co: HI PLAINS DRILLING

Driller: B.S.

Drilling Method: AIR ROTARY

Well/Boring #: B-8

Depth of Boring: 22.0 FEET

Depth of Well: -

Length of Screen: -

Length of Casing: -

Logged By: F.W.R.

Date Drilled: 02/08/93

Diameter of Boring:5 1/8 INCHES

Diameter of Screen: -

Diameter of Casing: -

Slot Size: -

Well Material: GROUT

DEPTH FEET	SOIL DESCRIPTION	SAMPLE NUMBER	SAMPLE TYPE	OVA (PPM)	WELL DESIGN	REMARKS
— o	Dark brown clay					0—
_ _ 2.5 _	Buff fine-grained calcareous SAND (caliche)	1	ss	1		2.5 —
- - 5.0		-				
		2	SS	2		Benzene <0.001 mg/kg 5.0 — BTEX <0.001 mg/kg — TPH <10 mg/kg —
7.5 - - -						7.5— — —
10.0 		3	ss	<1		10.0
					·	12.5 — - - -
 15.0 					_	Benzene <0.001 mg/kg 15.0 —
_ _ _ 17.5		4	SS 	<1	•	Benzene <0.001 mg/kg BTEX=0.001 mg/kg TPH=50 mg/kg 17.5—
- 20 0	Buff—pink fine—grained SAND (SM) slightly calcareous					
20.0 - - - -		5	SS	<1		Benzene <0.001 mg/kg ^{20.0} — BTEX=0.005 mg/kg TPH=30 mg/kg
22.5 	Bottom of boring @ 22.0 feet					22.5
- 25.0 						25.0 —
 27.5 				-		27.5 —
- - - 30.0						30.0 —
SS-Driven S	Split Spoon ARREVIATIONS					Sample submitted to lab

SS-Driven Split Spoon
ST-Pressed Shelby Tube
CA-Continuous Flight Auger
RC-Rock Core
THD-Texas Highway Department Cone
CT-5' Continuous Sampler

ABBREVIATION
HSA-Hollow Stem
CFA-Continuous Flig
DC-Driving Casing
MD-Mud Drilling

ABBREVIATIONS AND SYMBOLS HSA-Hollow Stem Augers CFA-Continuous Flight Augers

Water on Rods

Sample submitted to lab
Bottom Cap Factory—Slotted
Well Screen Sand Pack Well Casing Bentonite Seal Wolcolay Grout Seal



RECORD OF SUBSURFACE EXPLORATION

Project No.: 15-92567

Project: DENTON STATION

LEA COUNTY, NEW MEXICO

Drilling Co: HI PLAINS DRILLING

Driller: B.S.

Drilling Method: AIR ROTARY

Well/Boring #: B-9

Depth of Boring: 17.0 FEET

Depth of Well: -

Length of Screen: -

Length of Casing: -

Logged By: F.W.R.

Date Drilled: 02/08/93

Diameter of Boring:5 1/8 INCHES

Diameter of Screen: -

Diameter of Casing: -

Slot Size: -

Well Material: GROUT

			,		77 711 15-777 13-1				
DEPTH FEET	SOIL DESCRIPTION	SAMPLE NUMBER	SAMPLE TYPE	OVA (PPM)	WELL DESIGN	REMARKS			
0	Gray fine—grained SAND & caliche rubble (SM)					0-			
- - 2.5		1	SS	1		Benzene <0.001 mg/kg BTEX= 0.001 mg/kg TPH=30 mg/kg 2.5			
- - 5.0	Buff fine-grained calcareous SAND (caliche)					5.0—			
- -		2	SS	2		-			
7.5 - - -						7.5			
10.0 		3	SS	<1		10.0			
_ _ 12.5 _						12.5			
_ _ _ 15.0						Renzene <0.001 mg/kg 15.0			
_ _ _		4	ss	<1		Benzene <0.001 mg/kg ^{15.0} — BTEX=0.002 mg/kg — TPH=30 mg/kg —			
17.5 	Bottom of boring @ 17.0 feet					17.5— _ -			
20.0						20.0—			
_ 22.5 _						22.5 —			
_ _ _ 25.0						25.0 —			
_									
27.5 - - -						27.5 — 			
- 30.0 -		1				30.0 			
SS-Driven	Spilt Spoon ADDRIVIATIONS	AND	CYMPOL			Sample submitted to lab			

SS-Driven Split Spoon ST-Pressed Shelby Tube CA-Continuous Flight Auger RC-Rock Core RC—Rock Core
THD—Texas Highway Department Cone
CT—5' Continuous Sampler

CT—5' Continuous Sampler

CT—5' Continuous Sampler

CTA—Continuous Flight Augers
DC—Driving Casing
MD—Mud Drilling

ABBREVIATIONS AND SYMBOLS

HSA-Hollow Stem Augers

• Water on Rods Sample submitted to lab
Bottom Cap Factory—Slotted
Well Screen Sand Pack Well Casing Bentonite Seal Woloclay Grout Seal



RECORD OF SUBSURFACE EXPLORATION

Project No.: 15-92567

Project: DENTON STATION

LEA COUNTY, NEW MEXICO

Drilling Co: HI PLAINS DRILLING

Driller: B.S.

Drilling Method: AIR ROTARY

Well/Boring #: B-10

Depth of Boring: 17.0 FEET

Depth of Well: -

Length of Screen: -

Length of Casing: -

Logaed By: F.W.R.

Date Drilled: 02/08/93

Diameter of Boring:5 1/8 INCHES

Diameter of Screen: -

Diameter of Casing: -

Slot Size: -

Well Material: GROUT

Drilling Method: AIR ROTARY		Logged By: F.W.R.			Well Material : grout			
DEPTH FEET	SOIL DESCRIPTION	SAMPLE NUMBER	SAMPLE TYPE	OVA (PPM)	WELL DESIGN	REMARKS		
o	Gray fine—grained SAND & caliche rubble (SM)					o —		
- - 2.5	, <i>.</i>	1	SS	<1		2.5 —		
- - - 5.0	Buff fine-grained calcareous SAND (caliche)					- - - - 5.0		
		2	ss	1	•	Benzene <0.001 mg/kg BTEX=0.002 mg/kg TPH=30 mg/kg		
7.5 - - -						7.5 		
 10.0 _ _		3	ss	<1		10.0		
- - 12.5 -		-				12.5 —		
 - - 15.0						Renzene <0.001 mg/kg 15.0		
		4	SS	<1		Benzene <0.001 mg/kg ^{15.0} — BTEX=0.001 mg/kg _ TPH=20 mg/kg _		
17.5 _ _ _	Bottom of boring @ 17.0 feet					17.5		
 20.0 						20.0		
_ 22.5 						22.5 —		
- 25.0								
						25.0 - - -		
27.5 2						27.5 — -		
_ _ 30.0 _						30.0 —		
						=		

SS-Driven Spilt Spoon ST-Pressed Shelby Tube CA-Continuous Flight Auger RC-Rock Core THD—Texas Highway Department Cone .CT—5' Continuous Sampler

ABBREVIATIONS AND SYMBOLS HSA-Hollow Stem Augers CFA-Continuous Flight Augers DC-Driving Casing MD-Mud Drilling

● Water on Rods

Sand Pack

Sample submitted to lab
Bottom Cap Factory—Slotted
Well Screen Well Casing Bentonite Seal Volociay Grout Seal



RECORD OF SUBSURFACE EXPLORATION

Project No.: 15-92567

Project: DENTON STATION

LEA COUNTY, NEW MEXICO

Drilling Co: HI PLAINS DRILLING

Driller: B.S.

Drilling Method: AIR ROTARY

Well/Boring #: B-11

Depth of Boring: 22.0 FEET

Depth of Well: -

Length of Screen: -

Length of Casing: -

Logged By: F.W.R.

Date Drilled: 02/08/93

Diameter of Boring:5 1/8 INCHES

Diameter of Screen: -

Diameter of Casing: -

Slot Size: -

Well Material: GROUT

Di iiii ig ii	ING MELNOCI AIR ROTARY		Logged By. F.W.R.			Walerial: GROUT			
DEPTH FEET	SOIL DESCRIPTION	SAMPLE NUMBER	SAMPLE TYPE	OVA (PPM)	WELL DESIGN	REMARKS			
— o	Dark brown clayey loam					o 			
- - 2.5 -	Buff fine-grained calcareous SAND (caliche)	1	SS	. 1		2.5— 			
5.0 		2	SS	1		Benzene <0.001 mg/kg 5.0 — BTEX=0.001 mg/kg — TPH=40 mg/kg —			
- 7.5 - - -	·					7.5			
10.0 		3	SS	<1		10.0			
12.5 15.0						12.5— - - - 15.0—			
- - - - - - 17.5	Buff-pink fine-grained SAND (SM)	4	SS	<1		17.5			
- - - - 20.0	slightly calcareous	!				20.0			
	Bottom of boring @ 22.0 feet	5	SS	<1		Benzene <0.001 mg/kg — BTEX <0.001 mg/kg — TPH=10 mg/kg — 22.5 —			
- - 25.0						25.0 —			
- - - 27.5 -						27.5 —			
 30.0 				:		30.0			
SS-Driven S	Split Spoon ADDDEV//ATIONS	A NID	SYMBOL			Sample submitted to lab			

SS-Driven Split Spoon
ST-Pressed Shelby Tube
CA-Continuous Flight Auger
RC-Rock Core
THD-Texas Highway Department Cone
CT-5' Continuous Sampler

ABBREVIATION
FSA-Hollow Stem
CFA-Continuous Flig
DC-Driving Casing
MD-Mud Drilling

ABBREVIATIONS AND SYMBOLS

HSA-Hollow Stem Augers CFA-Continuous Flight Augers

WATER LEVEL

▼ At Completion
▼ After Hours

• Water on Rods

Sample submitted to lab
Bottom Cap Factory—Slotted
Well Screen Sand Pack Well Casing Bentonite Seal Voloclay Grout Seal

APPENDIX C ANALYTICAL RESULTS



SPL, INC.

REPORT APPROVAL SHEET

WORK ORDER NUMBER: <u>93-02-346</u>

Approved for release by:

S. Sample, Laboratory Director

Date: 2//1/93

Ed Fry, Project Manager

Date: 2/18/93



****SUMMARY REPORT****

02/17/93

Company:

Project:

Shell Pipe Line Corporation

Site: Project No: Lea Co., NM 15-92567.013 Denton Station

ANALYTICAL DATA
NOTE: ND - Not Detected

SPL ID	CLIENT ID	MATRIX	BENZENE	TOLUENE	ETHYLBENZ.	XYLENE	TPH-IR	TPH-GC	LEAD	MTBE	1
9302346-01	B-8/(51-71	SOIL	NDμg/Kg	NDµg/Kg	NDμg/Kg	NDμg/Kg	NDmg/Kg	1	ı	1	1
9302346-02	B-8 (15'-1	SOIL	NDμg/Kg	NDµg/Kg	NDμg/Kg	1μg/Kg	50mg/Kg	1	<u> </u>	1	
9302346-03	B-8 (201-2	SOIL	NDμg/Kg	NDμg/Kg	2µg/Kg	3μg/Kg	30mg/Kg	<u> </u>	<u> </u>	1	1
9302346-04	B-8 (201-2	SOIL	NDμg/Kg	NDμg/Kg	NDμg/Kg	NDμg/Kg	30mg/Kg	l	l	1	
9302346-05	B-9 (1'-3'	SOIL	NDμg/Kg	NDμg/Kg	NDμg/Kg	1μg/Kg	30mg/Kg	ł	İ	I	1
9302346-06	B-9 (15'-1	SOIL	NDμg/Kg	1µg/Kg	ND#g/Kg	1μg/Kg	30mg/Kg	1	1	I	
9302346-07	' B-10 (5'-7	SOIL	NDµg/Kg	NDμg/Kg	NDµg/Kg	2μg/Kg	30mg/Kg	1	l	1	
9302346-08	B-10 (15'-	SOIL	NDμg/Kg	NDμg/Kg	NDµg/Kg	1μg/Kg	20mg/Kg	1	1		
9302346-09	B-11 (5'-7	SOIL	NDµg/Kg	NDμg/Kg	NDµg/Kg	1μg/Kg	40mg/Kg	1	I	1	
9302346-10	B-11 (20'-	SOIL	NDμg/Kg	NDμg/Kg	NDµg/Kg	NDμg/Kg	10mg/Kg	1	1	1	1

BTEX - METHOD 5030/8020 ***
TPH-IR - METHOD Mod. 418.1

SPL, Inc., - Shari L. Grice



Shell Pipe Line Corporation

P.O. Box 2099

Houston, TX 77252-2099

ATTN: John Hite

P.O.#

PX-16959-RMM DATE: 02/17/93

PROJECT: Denton Station

SITE: Lea Co., NM

SAMPLED BY: CURA

SAMPLE ID: B-8 (5'-7')

PROJECT NO: 15-92567.013

MATRIX: SOIL

- DATE SAMPLED: 02/08/93 09:35:00

DATE RECEIVED: 02/15/93

	ANALYTICAL	DATA				
PARAMETER			RESULTS		ECTION	UNITS
BENZENE			MD	LIM: 0.0010		ma/Va
					_	mg/Kg
ETHYLBENZENE				0.0010	-	mg/Kg
TOLUENE			ND	0.0010	P	mg/Kg
TOTAL XYLENE			ND	0.0010	P	mg/Kg
TOTAL BTEX			ИD			mg/Kg
METHOD 5030/8020 ***						3, 3
Analyzed by: LT						
Date: 02/17/93						
Petroleum extractables			ND	;	10	mg/Kg
METHOD Mod. 418.1						2. 2
Analyzed by: AO						
Date: 02/16/93						

ND - Not detected.

(P) - Practical Quantitation Limit

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA

**Ref: Standard Methods for Examination of Water & Wastewater, 17th ed.

***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses are performed in accordance with EPA guidelines for quality assurance.



Shell Pipe Line Corporation

P.O. Box 2099

Houston, TX 77252-2099

ATTN: John Hite

P.O.#

PX-16959-RMM DATE: 02/17/93

PROJECT: Denton Station

SITE: Lea Co., NM

SAMPLED BY: CURA

SAMPLE ID: B-8 (15'-17')

PROJECT NO: 15-92567.013

MATRIX: SOIL

-DATE SAMPLED: 02/08/93 09:45:00

DATE RECEIVED: 02/15/93

	ANALYTICAL	DATA		
PARAMETER		RESULTS	DETECTI LIMIT	ON UNITS
BENZENE		ND	0.0010 P	mg/Ko
ETHYLBENZENE		ND	0.0010 P	mg/Ko
TOLUENE		ND	0.0010 P	mg/K
TOTAL XYLENE		0.0010	0.0010 P	mg/K
TOTAL BTEX		0.001		mg/Ko
METHOD 5030/8020 ***				<u> </u>
Analyzed by: MOO				
Date: 02/16/93				
Petroleum extractables		50	10	mg/Ko
METHOD Mod. 418.1				4.
Analyzed by: AO				
Date: 02/16/93				

ND - Not detected.

(P) - Practical Quantitation Limit

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA **Ref: Standard Methods for Examination of Water & Wastewater, 17th ed.

***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses are performed in accordance with EPA guidelines for quality assurance.

Analysis No. 9302346-03

P.O.# PX-16959-RMM

DATE: 02/17/93

PROJECT NO: 15-92567.013

MATRIX: SOIL

DATE SAMPLED: 02/08/93 09:50:00

DATE RECEIVED: 02/15/93

NALYTICAL D	ATA		
	RESULTS	DETECTION	UNITS
		LIMIT	
—	ND	0.0010 P	mg/Kg
_	0.0020	0.0010 P	mg/Kg
	ND	0.0010 P	mg/Kg
	0.0030	0.0010 P	mg/Kg
	0.005		ma/Ka

30 10 mg/Kg

(P) - Practical Quantitation Limit

analysis of Water and Wastes, 1983, EPA Examination of Water & Wastewater, 17th ed. Evaluating Solid Waste, EPA SW846, 3rd Ed.

No. 9302346-05

P.O.# PX-16959-RMM DATE: 02/17/93

mg/Kg

PROJECT NO: 15-92567.013

MATRIX: SOIL

DATE SAMPLED: 02/08/93 10:05:00

DATE RECEIVED: 02/15/93

ATA	RESULTS	DETECTION LIMIT	UNITS
	ND ND	0.0010 P 0.0010 P 0.0010 P 0.0010 P	mg/Kg mg/Kg mg/Kg

10

P) - Practical Quantitation Limit

30

s of Water and Wastes, 1983, EPA tion of Water & Wastewater, 17th ed. Solid Waste, EPA SW846, 3rd Ed.

s are performed in accordance with

hari L. Grice

performed in accordance with

Grice



Shell Pipe Line Corporation

P.O. Box 2099

Houston, TX 77252-2099

ATTN: John Hite

P.O.# PX-16959-RMM

DATE: 02/17/93

PROJECT: Denton Station

SITE: Lea Co., NM

SAMPLED BY: CURA

SAMPLE ID: B-9 (15'-17')

PROJECT NO: 15-92567.013

MATRIX: SOIL

DATE SAMPLED: 02/08/93 10:25:00

DATE RECEIVED: 02/15/93

	ANALYTICAL DATA		
PARAMETER	RESULTS		ON UNITS
		LIMIT	
BENZENE	ND	0.0010 P	mg/Kg
ETHYLBENZENE	ND	0.0010 P	mg/Kg
TOLUENE	0.0010	0.0010 P	mg/Kg
TOTAL XYLENE	0.0010	0.0010 P	mg/Kg
TOTAL BTEX	0.002		mg/Kg
METHOD 5030/8020 ***			J. J
Analyzed by: MOO	•		
Date: 02/16/93			
Petroleum extractables	30	10	mg/Kg
METHOD Mod. 418.1			31 3
Analyzed by: AO			
Date: 02/16/93			

ND - Not detected.

(P) - Practical Quantitation Limit

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA

**Ref: Standard Methods for Examination of Water & Wastewater, 17th ed.

**The first Methods for Evaluating Solid Waster EPA SNSA6 2nd Ed.

***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses are performed in accordance with EPA guidelines for quality assurance.



Shell Pipe Line Corporation

P.O. Box 2099

Houston, TX 77252-2099

ATTN: John Hite

P.O.#

PX-16959-RMM DATE: 02/17/93

PROJECT: Denton Station

SITE: Lea Co., NM

SAMPLED BY: CURA

SAMPLE ID: B-10 (5'-7')

PROJECT NO: 15-92567.013

MATRIX: SOIL

DATE SAMPLED: 02/08/93 10:45:00

DATE RECEIVED: 02/15/93

	ANALYTICAL	DATA		
PARAMETER		RESULTS	DETECTION LIMIT	UNITS
BENZENE		ND	0.0010 P	mg/Kg
ETHYLBENZENE		ND	0.0010 P	mg/Kg
TOLUENE		ND	0.0010 P	mg/Kg
TOTAL XYLENE		0.0020	0.0010 P	mg/Kg
TOTAL BTEX		0.002		mg/Kg
METHOD 5030/8020 ***				
Analyzed by: MOO				
Date: 02/16/93				
Petroleum extractables		30	10	mg/Kg
METHOD Mod. 418.1				· · ·
Analyzed by: AO				
Date: 02/16/93				

ND - Not detected.

(P) - Practical Quantitation Limit

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA

**Ref: Standard Methods for Examination of Water & Wastewater, 17th ed.

***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses are performed in accordance with EPA guidelines for quality assurance.



Shell Pipe Line Corporation

P.O. Box 2099

Houston, TX 77252-2099

ATTN: John Hite

P.O.#

PX-16959-RMM DATE: 02/17/93

PROJECT: Denton Station

SITE: Lea Co., NM

SAMPLED BY: CURA

SAMPLE ID: B-10 (15'-17')

PROJECT NO: 15-92567.013

MATRIX: SOIL

DATE SAMPLED: 02/08/93 11:90:00

DATE RECEIVED: 02/15/93

	ANALYTICAL DATA		
PARAMETER	RESULT	 -	UNITE
BENZENE	N	LIMIT 0.0010 P	mg/Kg
ETHYLBENZENE		0.0010 P	mg/Kg
TOLUENE		O 0.0010 P	mg/Kg
TOTAL XYLENE	0.001	0.0010 P	mg/Kg
TOTAL BTEX	0.00	1	mg/K
METHOD 5030/8020 ***			
Analyzed by: MOO			
Date: 02/16/93			
Petroleum extractables	20	0 10	mg/Ko
METHOD Mod. 418.1			٠, .
Analyzed by: AO			
Date: 02/16/93			

ND - Not detected.

(P) - Practical Quantitation Limit

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 17th ed.

***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses are performed in accordance with EPA guidelines for quality assurance.



Shell Pipe Line Corporation

P.O. Box 2099

Houston, TX 77252-2099

ATTN: John Hite

P.O.#

PX-16959-RMM

DATE: 02/17/93

PROJECT: Denton Station

SITE: Lea Co., NM

- SAMPLED BY: CURA

SAMPLE ID: B-11 (5'-7')

PROJECT NO: 15-92567.013

MATRIX: SOIL

DATE SAMPLED: 02/08/93 13:50:00

DATE RECEIVED: 02/15/93

	ANALYTICAL	DATA		
PARAMETER		RESULTS	DETECTION	UNITS
			LIMIT	
BENZENE		ND	0.0010 P	mg/Kg
ETHYLBENZENE		ND	0.0010 P	mg/Kg
TOLUENE		ND	0.0010 P	mg/Kg
TOTAL XYLENE		0.0010	0.0010 P	mg/Kg
TOTAL BTEX		0.001		mg/Kg
METHOD 5030/8020 ***				
Analyzed by: MOO				
Date: 02/16/93				
Petroleum extractables		40	10	mg/Kg
METHOD Mod. 418.1				
Analyzed by: AO				
Date: 02/16/93				

ND - Not detected.

(P) - Practical Quantitation Limit

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 17th ed.

***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses are performed in accordance with EPA guidelines for quality assurance.



Shell Pipe Line Corporation

P.O. Box 2099

Houston, TX 77252-2099

ATTN: John Hite

P.O.#

PX-16959-RMM DATE: 02/17/93

PROJECT: Denton Station

SITE: Lea Co., NM

SAMPLED BY: CURA

SAMPLE ID: B-11 (20'-22')

PROJECT NO: 15-92567.013

MATRIX: SOIL

DATE SAMPLED: 02/08/93 14:10:00

DATE RECEIVED: 02/15/93

PARAMETER	ANALYTICAL	DATA RESULTS	DETECTION	UNITS
PARAMETER		KEBULTS		ONITS
			LIMIT	
BENZENE		ND	0.0010 P	mg/Kg
ETHYLBENZENE		ND	0.0010 P	mg/Kg
TOLUENE		ND	0.0010 P	mg/Kg
TOTAL XYLENE		ND	0.0010 P	mg/Kg
TOTAL BTEX		ND		mg/Kg
METHOD 5030/8020 ***				3, 3
Analyzed by: MOO				
Date: 02/16/93				
Petroleum extractables		10	10	mg/Kg
METHOD Mod. 418.1				3, 3
Analyzed by: AO				
Date: 02/16/93				
,,				

ND - Not detected.

(P) - Practical Quantitation Limit

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 17th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

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QUALITY ASSURANCE: These analyses are performed in accordance with EPA guidelines for quality assurance.

QUALITY CONTROL DOCUMENTATION



** SPL Quality Control Report ** BTEX MATRIX SPIKE/MATRIX SPIKE DUPLICATE Method 8020/602

SPL Sample ID: 9302303-01A

Reported on:

02/17/93

Matrix:

Soil

Analyzed on:

02/16/93

This sample was randomly selected for use in the SPL quality control program. One in twenty samples is fortified, in duplicate, with a known concentration of the substance being analyzed.

The results are as follows:

---- SPIKE ANALYSIS -----

Compound	Blank Value	Spike Added µg/Kg	Original Sample Concentration µg/Kg	MS Concentration #g/Kg	MS % Rec#	QC Limits Range
BENZENE	ND	20	ND	22	110	39 - 150 X
TOLUENE	ND	20	ND	19	95	46 - 148 X
ETHYL_BENZENE	ND	20	ND	27	135	32 - 160 %
O XYLENE	ND	20	ND	18	90	32 - 160 %
M AND P XYLENE	ND	40	ND	25	62	32 - 160 %

---- SPIKE DUPLICATE ANALYSIS -----

Compound	Spike Added µg/Kg	MSD Concentration µg/Kg	MSD % Rec#	% RPD	RPD Limit	QC Rec Range
BENZENÉ	20	26	130	17	20	39 - 150 %
TOLUENE	20	20	100	5	20	46 - 148 %
ETHYL_BENZENE	20	27	135	0	20	32 - 160 %
O XYLENE	20	21	105	15	20	32 - 160 %
M AND P XYLENE	40	22	55	12	20	32 - 160 %

VARD930216133600

Cynthia Schreiner, QC Officer



** SPL Quality Control Report ** BTEX MATRIX SPIKE/MATRIX SPIKE DUPLICATE Method 8020/602

SPL Sample ID: 9302302-13A

Reported on:

02/17/93

Matrix:

Soil

Analyzed on:

02/17/93

This sample was randomly selected for use in the SPL quality control program. One in twenty samples is fortified, in duplicate, with a known concentration of the substance being analyzed.

The results are as follows:

---- SPIKE ANALYSIS -----

Compound	Blank Value	Spike Added #g/Kg	Original Sample Concentration µg/Kg	MS Concentration µg/Kg	MS % Rec#	QC Limits Range
BENZENE	ND	20	ND	17	85	39 - 150 %
TOLUENE	ND	20	ND	15	75	46 - 148 %
ETHYL_BENZENE	ND	20	ND	16	80	32 - 160 %
O XYLENE	ND	20	ND	16	80	32 - 160 %
M AND P XYLENE	ND	40	ND	35	87	32 - 160 %

---- SPIKE DUPLICATE ANALYSIS -----

Compound	Spike Added µg/Kg	MSD Concentration µg/Kg	MSD % Rec#	% RPD	RPD Limit	QC Rec Range
BENZENE	20	15	75	12	20	39 - 150 %
TOLUENE	20	14	70	7	20	46 - 148 %
ETHYL_BENZENE	20	15	75	6	20	32 - 160 %
O XYLENE	20	14	70	13	20	32 - 160 %
M AND P XYLENE	40	31	77	12	20	32 - 160 %

VARE930217234200

Cynthia Schreiner, QC Officer



SPL sample Id: 9302331-18

Matrix:

SOIL

Reported on: 02/17/93

Analyzed on: 02/16/93

This sample was randomly selected for use in the SPL quality control program. One in ten samples is fortified with a known concentration of the substance being analyzed and one in ten samples is analyzed in duplicate. The result are as follows:

-- SPIKE AWALYSIS --

Sample Id	Blank Value	Spike Added mg/L	Original Sample Concentration mg/Kg	MS Concentration mg/Kg	MS % Rec
9302331-1B	ND	357	7	312	86

SPIKE DUPLICATE ANALYSIS --

Sample Id	Spike Added mg/L	MSD Concentration mg/Kg	MSD % Rec	% RPD
9302331-1B	357	338	93	8

SPL, Incorporated

Cynthia Schreiner, QC Officer

CHAIN OF CUSTODY AND SAMPLE RECEIPT CHECKLIST

BTEX,GAS.HYDROCARBONS PIOPFID O WITH MITBE VOL 624/PPL 0 8240/TAL 0 NBS (+15) 0 PNAPAH 8310 0 8100 0 610 0 SEMI-VOL 625/PPL 0 8270/TAL 0 NBS (+25) 0 PNAPAH 8310 0 8100 0 610 0 SEMI-VOL 625/PPL 0 8270/TAL 0 NBS (+25) 0 TOLP METALS 0 VOL 0 SEMI-VOL 0 PEST 0 HERBO TOLP METALS 0 VOL 0 SEMI-VOL 0 PEST 0 HERBO OTHER A PROVINCE OF TOX METALS 0 PESTICIDES 0 HERBOIDES 0 REACTIVITY 0 CORROSMITY 0 IGNITABLITY 0 OTHER A PROVINCE OF TOX METALS 0 PESTICIDES 0 HERBOIDES 0 REACTIVITY 0 CORROSMITY 0 IGNITABLITY 0		THE LABORATORY MUST PROVIDE A COPY OF THIS CHAIN OF CUSTODY WITH INVOICE AND RESULTS DISTRIBUTION: PINK Sampling Coordinator . WHITE & YELLOW Accompanies Shipment . WHITE Returned with Report	OTHER AT	K ONE)	HED BY (SIGNATURE) DATE TIME RECEIVED BY: (SIGNATURE) DATE TIME SHELL CONTACT: JOHN HITE	Frank Welen Root \$2-12-93 12:00 LABORATORY:	RELINQUISHED BY: (SIGNATURE) DATE TIME RECEIVED BY: (SIGNATURE) DATE TIME BILL NO.:				B-11 (20-22') 2-8-93 141/16 X X X X X X X X X X X X X X X X X X X	B-11 (5-71) 2-8-93 13150 X X X X X X X X X X X	8-10 (15-17') 2-8-93 11:00 X X X X X X X X X X	×	X	X	×	*	3-9(5-71) 2-8-73 9135 X X X X X 1 402 X X X	CON BTED BTED VOL PNA SEM TPH TCLS	OF CON NTAINER X602 CJ CXGAS HYC VPAH8310 VIC 418.1) VGC 8015 M P METALS TOX META	SIZE OROCA O SPPPL 1 VO US O VO	802 RBONS 8240/1 8100 SM503 SS D L D SS	TAL CO	NE 610 NB D NB D HE	BS (+15) D D BS (+25) DESEL EST D ERBICIT	MTBE O O HERBO DES O	SITE ADDRESS: Denton Station	SHELL PIPELINE CORP CHECK ONE BOX ONLY CT/DT (CHECK APPROPRIATE BOX)	RETAIL ENVIRONMENTAL ENGINEERING CHAIN OF CUSTODY RECORD NO
--	--	--	----------	--------	--	--	---	--	--	--	---	--	--	---	----------	---	---	---	---	---	--	---------------------------------------	---	--------	---------------------	---	--------------------------	------------------------------	--	---

SPL HOUSTON ENVIRONMENTAL LABORATORY

SAMPLE LOGIN CHECKLIST

LOT	C: $\frac{\partial / 15/93}{15/93}$ TIME: $\frac{09.00}{100}$ CLIENT NO. CONTRACT NO.	
SPL	SAMPLE NOS.:	
1.	Is a Chain-of-Custody form present?	YES NO
2.	Is the COC properly completed? If no, describe what is incomplete:	
3.	If no, has the client been contacted about it? (Attach subsequent documentation from client about the Is airbill/packing list/bill of lading with shipment?	
	If yes, ID#: Fep x	-
4. 5. 6.	Is a USEPA Traffic Report present? Is a USEPA SAS Packing List present? Are custody seals present on the package? If yes, were they intact upon receipt?	
7.	Are all samples tagged or labeled? Do the sample tags/labels match the COC? If no, has the client been contacted about it? (Attach subsequent documentation from client about the	situation)
8.	Do all shipping documents agree? If no, describe what is in nonconformity:	
9. 10. 11.	Condition/temperature of shipping container: Condition/temperature of sample bottles: Sample Disposal?: SPL disposal Return	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
NOTE	S (reference item number if applicable):	
•	11/21	
	ST: DATE: DATE: LVED: DATE: DA	A/15/93

APPENDIX D WATER WELL SEARCH



WATER WELL SEARCH SHELL PIPE LINE CORP. DENTON STATION LEA COUNTY, NEW MEXICO PROJECT #: 15-9267.01 PO #: 7896

CURA, INC.

WELL RECORDS
SHELL PIPE LINE CORP.
DENTON STATION
LEA COUNTY



January 11, 1993

Project #: 15-9267.01

PO #: 7896

Wes Root CURA, Inc. 3001 N. Big Spring , Ste. 101 Midland, Texas 79705

In re: Water well search for a site at Shell Pipeline Corp. Denton Station in Lea County, New Mexico.

Dear Mr. Root,

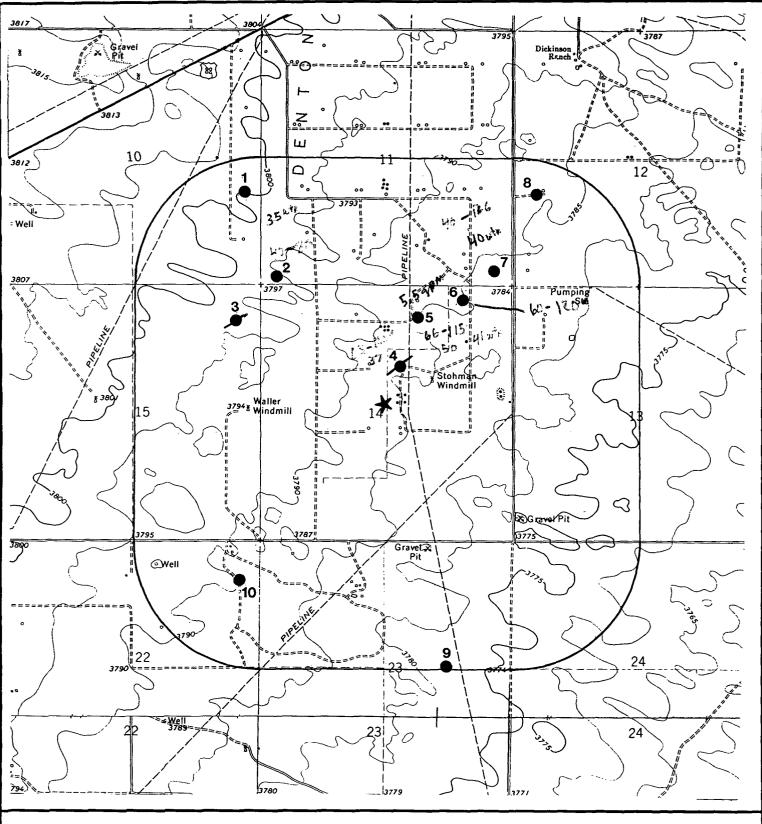
Geosource Inc. (GI) has performed a water well search for a site in Lea County. GI utilized data provided by the State Engineers Office of New Mexico (Underground Waters). The office is the central depository for water well logs from the licensed water well drillers in the state. The data is what the office currently has within their files. GI was able to identify twelve total wells. The location map will have ten locations. Well # 3 has three wells for its location.

If you have any questions concerning this project or need additional information, please call me at 512 474 6721.

Sincerely,

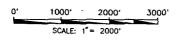
Floy Del Bosque

Enclosures



Legend

- * SITE LOCATION
- WELL LOCATION



APPROXIMATE LOCATIONS

Site

Shell Pipeline Corp. Lea County, New Mexico

USGS Quads

Prairieview (1970)

Humble City NW (photorevised 1979)



Geosource, Inc.

2201 N. Lamar, Ste. 200 Austin, Texas 78705 phone (512)474-6721 fax (512)474-5428 NSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the hearest 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 1A and Section 5 need be completed.

Rection 1

Street and Number Box 845 City Roswell State New Nextico Well was drilled under Permit No. L-2268 and is located in the Well was drilled under Permit No. L-2268 and is located in the Well was drilled under Permit No. L-2268 and is located in the Well was drilled under Permit No. L-2268 and is located in the Well was drilled under Permit No. L-2268 and is located in the Well was drilled under Permit No. L-2268 and is located in the Well was drilled under Permit No. L-2268 and is located in the Well was drilled under Permit No. L-2268 and is located in the Well was drilled under Permit No. L-2268 and is located in the Well was drilled under Permit No. L-2268 and is located in the Well was drilled was completed. City	ection 1				(A) Owner	of well_	Sh [,]	ell Oil Compa	any	
City Reswell State Res Mexico Well was drilled under Permit No. L=2268 and is located in the state Ay NE Y4 SE Y4 SE Y4 SE Y6 Section 10 Trup 153 Rge 37E				1 '			_	x 845		
Section 4 RECORD OF CASING Performance	1							swell	State _N	ew Mexico
(B) Drilling Contractor. License No. Street and Number City State Drilling was commenced 19. Drilling was completed 19. Drilling was completed 19. State whether well is shallow or artesian Depth to water upon completion. Depth to water upon completion. Depth to water upon completion. Depth in Feet Prom To Description of Water-Bearing Formation Prest To Description Prest To Descrip										
Street and Number City State Drilling was commenced 19 Drilling was commenced 19 Drilling was commenced 19 Drilling was commenced 19 Drilling was completed 19 Drilling was co		1								
City Drilling was commenced 19. (Plat of 640 acres) Drilling was completed 19					•	-				
Drilling was commenced 19 19 19 19 19 19 19 1			_			:				
(Plat of 840 acres) Drilling was completed	1									
City of 460 acres City Company City			_							
PRINCIPAL WATER-BEARING STRATA Depth in Feet Thickness in Feet Description of Water-Bearing Formation	(Pl	at of 640	acres)		Drilling wa	is complet	:ea			15
PRINCIPAL WATER-BEARING STRATA No. Depth in Feet From To Feet Prom To Feet From To Feet Tons of Roughage used Plugging Contractor Clay State Tons of Clay used Tons of Roughage used Plugging method used Backfilled w/rubble - 3 ft. Conc. Plugbate Plugged April 19 5 Plugging approved by: POR USE OF STATE ENGINEER ONLY MAY 13 1958 Date Received OF Tons of Roughage used Posses In Prom To Posses of Clay Water-Bearing Formation Perceivage Posses In Prom To Plug Water-Bearing Formation Perceivage Plugged April 19 5 Plugging approved by: No. Depth of Plug were placed as follows: No. Depth of Plug were Plugged April 19 5 Plugging approved by: No. Depth of Plug Water-Bearing Formation Perceivage Plugged April 19 5 Cement Plugs were placed as follows: No. Depth of Plug Water-Bearing Formation Perceivage Plugged April 19 5 Cement Plugs were placed as follows: No. Depth of Plug Water-Bearing Formation Perceivage Plugged April 19 5 Cement Plugs were placed as follows: No. Depth of Plug Water-Bearing Formation Plug Plugged April 19 5 Cement Plugs were placed as follows: No. Depth of Plug Water-Bearing Formation Plugged April 19 5 Cement Plugs were placed as follows: No. Depth of Plug Water-Bearing Formation Plugged April 19 5 Cement Plugs Water-Bearing Formation Plugged April 19 5 Cement Plugged April 19 5 C										
Depth in Feet Thickness in Feet Thickness in Feet Thickness in Feet Thickness in Feet Type Shoe Thickness in Feet Type Shoe Top To	State who	ether we	ell is shal!	low or	r artesian_			Depth to wat	ter upon comple	tion
No. From To Feet Description of Water-Bearing Formation 1	Section 2				PRINC	CIPAL WA	TER-BEARI	NG STRATA		
3 RECORD OF CASING Section 3 RECORD OF CASING Dia Pounds In Top Bottom Feet Type Shoe Performance To	No.			1			Des	cription of Water	r-Bearing Formatio	<u> </u>
Section 3 RECORD OF CASING Dia Pounds in. St. in Threads in. St. in Top Bottom Feet Type Shoe From To Section 4 RECORD OF MUDDING AND CEMENTING Depth in Feet From To Hole in in. Clay Cement Methods Used Section 5 PLUGGING RECORD Same of Plugging Contractor. Company Labor. License No. Street and Number. City State. Tons of Clay used Tons of Roughage used Type of roughage. Plugging method used Backfilled w/rubble - 3 ft. Conc.PlugDate Plugged. April 195 Plugging approved by: Cement Plugs were placed as follows: No. Depth of Plug No. of Sacks Used Of FICE GROUND WATER SUPERVIKOR ROSVEIL, NEW MERCO	1			Τ						
Section 3 RECORD OF CASING Dia Pounds in Threads Depth Feet Type Shoe Perforations in ft. In Top Bottom Feet Type Shoe From To Section 4 RECORD OF MUDDING AND CEMENTING Depth in Feet Diameter Tons No. Sacks of Cement Methods Used Section 5 PLUGGING RECORD Section 5 PLUGGING RECORD Section 5 PLUGGING RECORD Section 5 City State Tons of Plugging Contractor Company Labor License No. Street and Number City State Tons of Clay used Tons of Roughage used Type of roughage Plugging method used Backfilled w/rubble - 3 ft. Conc. PlugDate Plugged April 195 Plugging sproved by: Cement Plugs were placed as follows: Cement Plugs were placed as follows: No. Depth of Plug No. of Sacks Used No. Depth of Plug No. of Sacks Used OFFICE GROUND WATER SUPERVIKOR RESWIELD NEW MATER SUPERVIKOR RESWIEL, NEW MATER SUPERVIKOR RESWIELD	2									
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Dia Pounds in Threads Depth Feet Type Shoe From To Section 4 RECORD OF MUDDING AND CEMENTING Depth in Feet Diameter Tons No. Sacks of Cement Methods Used Section 5 PLUGGING RECORD Name of Plugging Contractor City State Tons of Roughage used Type of roughage. Plugging method used Backfilled w/rubble - 3 ft. Conc. Plugate Plugged April 195 Plugging approved by: Cement Plugs were placed as follows: Cement Depth of Plugging Plugging approved by: Cement Plugs were placed as follows: Cement Depth of Plug of roughage. Plugging approved by: Cement Plugs were placed as follows:	5									•
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Section 4 RECORD OF MUDDING AND CEMENTING Depth in Feet Diameter From To No. Sacks of Cement Methods Used Section 5 PLUGGING RECORD Street and Number City State Tons of Clay used Tons of Roughage used Type of roughage Plugging method used Backfilled w/rubble - 3 ft. Conc. Plugate Plugged April 19 5 Plugging approved by: Cement Plugs were placed as follows: Cement Plugs were placed as follows: No. Depth of Plug were placed as follows: No. Depth of Plug were placed as follows: No. Depth of Plug No. of Sacks Used No. OFFICE GROUND WATER SUPERVIKOR RCSUYEL, NEW MEXICO	Dia	Pound	is Thre	eads			Feet	Type Shoe	1	orations
Depth in Feet Diameter Tons No. Sacks of From To Hole in in. Section 5 PLUGGING RECORD Name of Plugging Contractor. Company Labor License No. Street and Number City State Tons of Clay used Tons of Roughage used Type of roughage. Plugging method used Backfilled w/rubble - 3 ft. Conc. Plugbate Plugged April 19 5 Plugging approved by: Cement Plugs were placed as follows: No. Depth of Plug No. of Sacks Used FOR USE OF STATE ENGINEER ONLY MAY 13 1958 Date Received OFFICE GROUND WATER SUPERVISOR RCSSWEIL, NEW MEXICO					Тор	Bottom	Pec.	Туре опос	From	То
Depth in Feet Diameter Tons No. Sacks of From To Hole in in. Section 5 PLUGGING RECORD Name of Plugging Contractor. Company Labor License No. Street and Number City State Tons of Clay used Tons of Roughage used Type of roughage. Plugging method used Backfilled w/rubble - 3 ft. Conc. Plugbate Plugged April 19 5 Plugging approved by: Cement Plugs were placed as follows: No. Depth of Plug No. of Sacks Used FOR USE OF STATE ENGINEER ONLY MAY 13 1958 Date Received OFFICE GROUND WATER SUPERVISOR RCSSWEIL, NEW MEXICO										
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Depth in Feet Diameter Tons No. Sacks of From To Hole in in. Section 5 PLUGGING RECORD Name of Plugging Contractor. Company Labor License No. Street and Number City State Tons of Clay used Tons of Roughage used Type of roughage. Plugging method used Backfilled w/rubble - 3 ft. Conc. Plugbate Plugged April 19 5 Plugging approved by: Cement Plugs were placed as follows: No. Depth of Plug No. of Sacks Used FOR USE OF STATE ENGINEER ONLY MAY 13 1958 Date Received OFFICE GROUND WATER SUPERVISOR RCSSWEIL, NEW MEXICO		ļ				 		ļ		
Depth in Feet Diameter Tons No. Sacks of From To Hole in in. Section 5 PLUGGING RECORD Name of Plugging Contractor. Company Labor License No. Street and Number City State Tons of Clay used Tons of Roughage used Type of roughage. Plugging method used Backfilled w/rubble - 3 ft. Conc. Plugbate Plugged April 19 5 Plugging approved by: Cement Plugs were placed as follows: No. Depth of Plug No. of Sacks Used FOR USE OF STATE ENGINEER ONLY MAY 13 1958 Date Received OFFICE GROUND WATER SUPERVISOR RCSSWEIL, NEW MEXICO	.	<u> </u>			<u> </u>	<u> </u>	<u> </u>	<u> </u>		<u> </u>
Section 5 PLUGGING RECORD Name of Plugging Contractor	Section 4	<u> </u>			RECORI	D OF MUI	DDING AN	D CEMENTING		
Section 5 PLUGGING RECORD Name of Plugging Contractor									Methods Used	
Name of Plugging Contractor	From	To	Hole	in in.	Clay	Cem	ient		MANNE -	
Name of Plugging Contractor		<u> </u>			 					
Name of Plugging Contractor	-				 					
Name of Plugging Contractor	1	 			 					
Name of Plugging Contractor	!		1		<u> </u>		- 1			
Tons of Clay used Tons of Roughage used Type of roughage Plugging method used Backfilled w/rubble - 3 ft. Conc.PlusDate Plugged . April 19.5 Plugging approved by: Cement Plugs were placed as follows: No. Depth of Plug No. of Sacks Used	Section 5	ذ				PLUGG	SING REC	ORD		
Tons of Clay used Tons of Roughage used Type of roughage Plugging method used Backfilled w/rubble - 3 ft. Conc.PlugDate Plugged . April 19 5			-							
Plugging method used Backfilled w/rubble - 3 ft. Conc.Plugate Plugged . April 19 5 Cement Plugs were placed as follows: No. Depth of Plug No. of Sacks Used FOR USE OF STATE ENGINEER ONLY Date Received OFFICE GROUND WATER SUPERVISOR ROSWELL, NEW MEXICO							-			
Plugging approved by: Cement Plugs were placed as follows: No. Depth of Plug No. of Sacks Used										
FOR USE OF STATE ENGINEER ONLY Date Received OFFICE GROUND WATER SUPERVISOR ROSWELL, NEW MEXICO		1		kfil	led w/rub	oble - 3	ft. Con	c.PlusDate Pl	ugged . Ap	ril 19 56
FOR USE OF STATE ENGINEER ONLY Date Received OFFICE GROUND WATER SUPERVISOR ROSWELL, NEW MEXICO	Plugging	t abbron	ed by:	4	DL			Cement Plu	ıgs were placed :	as follows:
FOR USE OF STATE ENGINEER ONLY Date Received OFFICE GROUND WATER SUPERVISOR ROSVIEL, NEW MEXICO		ame	224	the	1/1	===	. N	0.	No.	of Sacks Used
Date Received OFFICE GROUND WATER SUPERVISOR ROSWELL, NEW MEXICO	11		~ +-	N /1	Z JLZ JLZ	34.0		From	То	
Date Received OFFICE GROUND WATER SUPERVISOR ROSVIEL, NEW MEXICO		FOR U	ISE OF ST		NGINEER O	DNLY	-	- 0' +-	3' One	
O FFI C E GROUND WATER SUPERVISOR ROSVELL, NEW MEXICO	Doto .	Daning	3	MAY	(13 1958	3	-	+		
ROSY/ELL, NEW MEXICO	Dave	Receive				******	_ [-			
			GR	OUND ROSY	VELL, NEW MEX	SICO SINCE				
File No. L- L268 Use U.W. D. Location No. 15. 37. 10.3 20	7									
	File No	s	L261	<u>~</u>		Use	1.W.L	Locati	ion No./5.3	7. 10.320

Depth	in Feet	Thickness	<u> </u>	
From	То	in Feet	Color	Type of Material Encountered
	 			
	· · · · · · · · · · · · · · · · · · ·			
		7 81.7	7	
				
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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 well

XWXXII XDFKIYAY

R. L. Elkins

Division Mechanical Engineer

Important—Read Instructions On Back Before Filling Out This Application (859 10 2007)

APPLICATION FOR EXTENSION OF TIME ch to Complete an Appropriation of Underground Water

Book NoLG-9 P.	-	
	Received May 28, 1958	
Before the State Engineer Santa Fe, New Mexico.	Received	****************
The undersigned, Shell Oil Compan		
of, Co	ounty ofChaves	••••••••••••••••••••••••••••••••••••••
State of New Mexico	, hereby applies for an extension	of time in
which to Complete the works (complete the works, apply w	ater to beneficial use)	under
Permit No. L-2268 Approved	July 7	, .19. <u>.53</u> .
The prevailing dates which have been set by the S well shall be plugged and plugging record		, 19 ⁵⁶
Apply Water to Beneficial Use on or before		, 19
The period of time fixed by the above limiting	or dates has proved to be insufficien	nt and ad-
ditional time is requested for the following reason		
necessary, submit affidavits, photographs, etc., a	-	
To cover time lapse.		
		••••••
<u> </u>		

		 .
		••••••

The State Engineer is hereby requested to e	•	
ing the above limiting dates to read as follows: Well shall be plugged and plugging recor	d filed on or before July 30	57
Apply Water to Beneficial Use on or before		
I,R. L. Elkin		uly sworn.
	agent for owner sole, partial, agent for, etc.)	ınd holder
of said Permit NoL-2268	, that I hav	e read the
foregoing statements and that the same are tru	e to the best of my knowledge and	belief.
	Shell.Oil.Company	
	WI Cherry	Permittee
b Vira	R. L. Elkins, Division Mecha	Z
Subscribed and sworn to before me this 21.4.		D., 1954.
	My Mandal American	<u></u>
My commission expires	Notary F	E D
	1 1 1 1	neo
	MAY 28 1	1
	GROUND WATER	SUPERVISOR

EXTENSION OF TIME

File Me of Application

Approval of the State Engineer

Described in Pook LC-9

rie No. of Application	
Date of Receipt May 28, 1958	Extension of Time Granted June 4. 1958
This is to certify that I have examined the	above application for additional time in which
C T	er considering the merits thereof, do hereby
	er considering the merits thereof, do hereby
grant to the permittee,	17 (19 (19))
Shell Oi	1 Company ,
an extension of time to the following dates:	rd filed on or before July 30 57
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	<u>1991 - Eligin Grand, de la la companya de la compa</u>
Witness my hand and official seal this4	th day of June A. D., 1958_
	S. E. Reynolds
	State Engineer
By:	Sudd Hennighausery
	District Supervisor

INSTRUCTIONS

File application in triplicate accompanied by a fee of \$5.00

Due diligence shall be exercised by the applicant at all times in order to complete his appropriation, change, amendment, etc., within the time limits set in the permit. Should conditions unavoidably delay the work, however, the State Engineer may, upon request of the applicant grant reasonable extensions of time as provided by statute, which extensions, in general, are granted for more than one year for any single extension.

In addition to the statements appearing in this form, applicant may submit affidavits or any other pertinent evidence in support of his application. No extension of time shall be granted unless sufficient proof is shown to justify such extension.

NOTE: If additional space is required, use a separate sheet of paper and attach securely hereto.

WELL RECORD

Date of Receipt	***************************************	***************************************	••••••••	Permit No. 4	2391
Name of permitee,	J. M. De	nton			
street or P. O. Box	843	, Ci	ty and State Lov	ington, N.	М.
Well location and d	escription: The	SMallowwell is	located in SW	y, sw	
			S Range 37		
casing above sea le	vel,	feet; diameter of	hole,7 inch	nes; total depth,	BO feet;
depth to water upo	n completion,?	7 feet; drilli	ng was commenced	October 2	4, 1953,
and completed	October 24	1953; name	of drilling contracto	Quarles D	rilling 60
Box 545	; Address,	Lovington,	New Mex .; Drille	er's License No	WDI44
. Principal Water-be	aring Strata:				! !
Depth is From	r Feet To	Thickness	Description of V	Vater-bearing Formati	on
No. 1 40	80	40	Sand and	soft sands	tone
No. 2					
No. 3				:	!
No. 4				!	<u> </u>
No. 5				i	
4. If above construction of Section	on replaces old v		give location:		
date of plugging	61ATE R	ENGINEER SICLE FS. N EBEIVE NOV 24 1C53	N PM	WAS plugged: LLLL OV 23 1953 OFFICE ID WATER SUPERV) :
	7181	9 _[10]11 12 1 12 9	15 6 ROS	SWELL, NEW MEXICO	

5. Log of Well:

Depth From	in Feet To	Thickness in feet	Description of Formation
0 .	. IO	IO	Loose caliche & gravel
Io	.30	20	Sand and rock ledges
30	36	6	Sand
36	40	4	Hard sandstone
40	80	40	Sand and soft sandstone small amount
			of gravel
		,	
		,	
			
1.14.2.3	ļ:		

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 well.

Instructions

This form shall be executed, preferably typewritten, in triplicate and filed with the State Engineer's Office at Roswell, New Mexico, within 10 days after drilling has been completed. Data on water-bearing strata and on all formations encountered should be as complete and accurate as possible.

APPLICATION FOR PERMIT

To Appropriate the Underground Waters of the State of New Mexico

LEA COUNTY UNDERGROUND BASIN

Anr	olication No. L. L. 2391	Book LC-9	Date Receive		oer 22, 1953.	
	Name of applicant J.M.	Denton				
		43 Lovingtor	New M	exico		
	County of Lea	· · · · · · · · · · · · · · · · · · ·	State of	New Me	xico	
2.	Source of water supply S	hallow .		<u> </u>		
	located in Lea County	state whether artesian or al underground B		ater Dasin)		
	located in	(name of underground st	ream, valley, ari	esian basin, etc		
8.	The well is to be located in the		%,SW			¼,
	of section	_, Township_ I5S		, Range	37E	, N.M.P.M.,
	on land owned by J. M	. Denton				
4.	Description of well: driller_Q					
	diameter (outside) of casing		inc	hes; type of	pump and power	plant to be used
	2± Inch - Wir	dmill				
			I.	0		
5.	Quantity of water to be appropri	ated and beneficially us	ed		h or acre feet per acre)	
	for Stock Water					purposes.
6.	Acreage to be irrigated	I.0				acres
	located and described as follows	(describe only lands to	be irrigated) :		
	Cork Model	S. a. M.	70	Acres		
	Subdivision	Sec. Twp.	Range	Irrigated	Own	Br
		<u>II I5S</u>	37E	I.0	J.MDe	nton
						
						
					BTATE ENGINEER-SC	to Co. (i. č.)
					TO FOR HILL	11 E 15
					WE WELL	V-E-
					OCT 27	1:53
	(Note: local	ion of well and acreage to be	teriested must b	_ &	M Annual Alfaire	- PM]
_				184	[8]9]10]11[12]1	[वावावावाव]
7.	Time required to commence con	. 11		Days Days		<u> </u>
	Time required to complete the w			Davs		
_	Time required to fully apply wa					
8.	Additional statements or explan	lations (including data	on any of	her water r	ights appurtenant (to above lands);
						·
						
				1,31	¥ 7 77 F	<u>, </u>
				<u>F</u> ,	A ELELE	
				0	CT 22 1953	
	M Dento				rat duly sworn upor	my oath denon
8.1	nd say that I have carefully read	the foregoing statemer	t and each a	ad Street	e items contained	therein, and tha
13	ne same are true to the best of m	y knowledge and belief	· . /	110	WELL, NEW MEXICO	
			2/4	1111	enton	applican
		<i>a 1</i>	V	A-1		
S	ubscribed and sworn to before me	this Z/	_day of	ciglu	M	_, A.D., 19.20
	ly Commission expires	12 1954	Sils	etric	e Hul	les-
D/I	y Commission expires	1109				Notary Public

APPROVAL OF THE STATE ENGINEER

Number of this p				received corrected_		
Recorded in Boo				cation of notice ord		
age		2391	Name	of paper		·
application recei	ivedOctob	er 22, 195	Affide	vit of publication f	filed	
oate returned fo	or correction		Date	of approval	October 2	9, 1953,
This applica	tion is approve	d for		3		_acre feet of water
ubject to all pr	ior valid and e	xisting rights to	the use of the v	vaters of said unde	erground source	and provided that
he applicant co	mplies with all	rules and regul	ations of the Stat	e Engineer pertaini	ng to the drilling	ng of wells
Well to b	e drilled	by drilling	contractor	licensed in t	the State o	f New Mexico.
Diameter	of well no	t to exceed	7 inches.	Appropriation	of water	to be limited
at all ti	mes to 3 a	cre feet pe	r annum for	domestic purp	oses and t	he irrigation
or not mo	re than 1	acre of non	-commercial	garden.		
Works shall	he completed a	nd proofs fled	on or before	December	30 1951.	
					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
			proofs filed on or			
	-					erground waters o
			_	o the foregoing pro		
Witness my	hand and sea	this	29th day of		- OCCODET	, A.D., 195
				//7/2	man-	
			-	177 A	ssistant	State Engineer
LOCATE WEL		GE TO BE IRB		URATELY AS PO	SSIBLE ON F	OLLOWING PLAT
LOCATE WEL	L AND ACREA	GE TO BE IRB		URATELY AS PO	SSIBLE ON F	
				URATELY AS PO	SSIBLE ON F	OLLOWING PLAT
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				URATELY AS PO	SSIBLE ON F	OLLOWING PLAT
				URATELY AS PO	SSIBLE ON F	OLLOWING PLAT

INSTRUCTIONS

This form shall be executed, preferably typewritten, in triplicate and shall be accompanied by a filing fee of \$5.00. Each of triplicate copies must be properly signed and attested.

A separate application for permit must be filed for each well used.

Secs. 1-4-Fill out all blanks fully and accurately.

Sec. 5—Irrigation use shall be stated in feet depth or acre feet of water per acre to be applied on the land. If for domestic, municipal, or other purposes, state total quantity in acre feet to be used annually. Domestic use may include the irrigation of not more than one acre of lawn and garden for noncommercial use.

Sec. 6—Describe only the lands to be irrigated. If on unsurveyed lands described by legal subdivision "as projected" from the nearest government survey corners, or describe by metes and bounds and tie survey to some permanent, easily located natural object.

Sec. 7—Estimate time reasonably required to commence and to complete project.

Sec. 8—If lands are irrigated from any other source, explain in this section. Give any other data necessary to fully describe water right sought.

If additional space is necessary, use a separate sheet or sheets and attach securely hereto.

PROOF OF COMPLETION OF WORKS

UNDERGROUND WATERS

Date of Receipt November 24, 1953	Permit No. L-2391
Name of permitteeJ. M. Denton	v · · ·
	** * *
P. O. address. Box 843, City and State	Lovington, New Mexico
Permit No. L-2391 to Appropriate (appropriate, repair	well, change location of well)
in the Lea County Underground Basin (name of underground reservoir, arte	maian basin, etc.)
Description of well: location,SW	SW
Township 15 South Range 37 East; total depth,90	feet; outside diameter of top casing
(or hole, if uncased)	ped with gate valve?; name
and address of driller,Quarles Drilling Co.; Lo	ovington, New Mexico
Date drilled,	October , 19.53
. Record of Pumping Test (to be supplied by person or firm making	test; Name and address of person making
test,None	······································
date of test,; depth to water	er before test,feet, and im-
mediately afterward,feet; Lenth of test,ho	urs; average discharge,
Specific capacity of well,gal. per min. per ft. of	drawdown.
Description of pump: Make,Aeromotor	
type,cylinder ; if turbine type, give size of colu	umn,inches; diameter of
bowls; length	of suction pipe,feet; total
length of column, bowls and suction pipe,feet; if centr	rifugal type, give size of pump
inches; if other type, describe, 70! - 2\frac{1}{3!!} 2\frac{1}{1!}!	cylinder
	STATE ENGINEER-SENIA FR. N. M.
rated capacity of pump (if known)	rev. per pippirom a depth of
5. Description of power plant: makenAeromotor	NOV 24 ::53
type,; rated horsepower (if avails	[7 8 9 10 11 12 1 2 3 4 5 6]
to pump, sucker rods date of installation of power	
3. Actual discharge of pump,G.P.M., atrev.	per min., from a depth offeet
Date of test, 19; Name and ad	
<u> </u>	THE THE PARTY OF T
plant, Higginbotham-Bartlett Lumber Co.	; Loyington, New Mexico
1	OFFICE ODVING SUPERVISOR
C.C.	ROUNDLE, MINY AMERICO

2 3 3 2 1

7. Permit acreage to be served by well,1.0	acres, to receive a total of3.Qacre feet of water
allowed by permit.	
8. The distribution system consists of overnight storag	(yes or no) and feet of main canal;
give approximate capacity of reservoir or tank (if a	ny)cubic feet.
9. If above construction replaces an old well to be plu	igged or abandoned, fill out the following: the well abandoned
is located in the	
Name of plugging contractor,	
Well was plugged in accordance with terms of perm	it, 19
10. Give date "Well Record" was filed with State Engine	er's Office,, 19,
11. Pump and power plant were installed and works co	mpleted
The undersigned, owner and holder of Permit No. I	=2391, being first duly sworn upon his oath, states
that he has read the foregoing statements and that the	same are true to the best of his knowledge and belief.
	1 Jm Denton
Subscribed and sworn to before me this5th	day of November 19 53
My commission expires Sept. 26, 1957	Notary Public.
	ngineer's Representative
. I hereby certify that I have duly inspected the abo	ve Works and find them adequate and properly constructed
according to the terms and conditions of the permit. No	te any exceptions
	-
	Groundwater Supervisor or other representative of State Engineer.
Date,, 19	

:.

WELL RECORD

Date of Receipt			Permit No. L-1568
Name of permitee,	Parker	Drilling Co.	
Street or P. ODox	1053	, Cl	ty and StateLovington,Leurilexico
1. Well location and d	escription: The	Shollow well is	located in
SW 1/4 of 8	Section12	, Township153	outh Range 37. Last; Elevation of top of
easing above sea le	vel,	feet; diameter of	hole,7 inches; total depth,120 feet;
depth to water upon	n completion,	38 feet; drillin	ng was commenced
and completedS	eptember 1	lO, 1953.; name	of drilling contractor C Aldridgo
Вож 379	; Address	Lovington,	New Mex466aler's License No. MD=79
2. Principal Water-be	aring Strata:		
Depth is From	n Peet To	Thickness	Description of Water-bearing Formation
No. 1	60	22	light water sand
No. 2 60	60	20	fair water sand
No. 3	112	32	good water sand
No. 4	120	8plus	quick sand
No. 5			
Diameter per ft. Surface only 4. If above construct	per inch 1		Feet of Casing Type of Shoe From To
of Section			give location:

5. Log of Well:

Depth From	in Feet	Thickness in feet	Description of Formation
0	1	1	8011
1	6	5	line rock
6	28	22	caliche
28	38	10	dry sand
38	60	22	light water sand
60	80	20	fair water sand
60	112	32	good water sand
112	120	8	quick sand
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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 well.

Instructions

This form shall be executed, preferably typewritten, in triplicate and filed with the State Engineer's Office at Roswell, New Mexico, within 10 days after drilling has been completed. Data on water-bearing strata and on all formations encountered should be as complete and accurate as possible.

PROOF OF COMPLETION OF WORKS

UNDERGROUND WATERS

	Date of Receipt August 21, 1953. Permit No. L-1568.
1.	Name of permittee. Parker Drilling Co.
	P. O. address. Box 1053
	Permit No. L=1568 to. Appropriate (appropriate, repair well, change location of well)
	in the Lea County Underground Basin (name of underground reservoir, artesian basin, etc.)
2.	Description of well: location,
	Township15 South., Range3.7 East; total depth,120feet; outside diameter of top casing
	(or hole, if uncased)
	and address of driller,
	Date drilled,
3.	Record of Pumping Test (to be supplied by person or firm making test; Name and address of person making
	test,None_made:
	date of test,feet, and im-
	mediately afterwardfeet; Length of test,hours; average discharge,G.P.M.;
	Specific capacity of well, gal, per min, per ft. of drawdown,
4.	Description of pump: Make,
	type,turbine; if turbine type, give size of column,inches; diameter of
	bowls
	length of column, bowls and suction pipe, 100 feet; if centrifugal type, give size of pump
	inches; if other type, describe,
	i
	rated capacity of pump (if known)150G.P.M., at1760rev. per min., from a depth of80feet.
5	Description of power plant: make,International_U=2;
	type, Industrial; rated horsepower (if available) 27; type of drive connection
	to pump,helt; date of installation of power plant,Sept. 10, 1953_
6.	Estimated Actual discharge of pump, 150 G.P.M., at 1760 rev. per min., from a depth of 80 feet;
	Date of test None made 19 Name and address of dealer supplying pump and nower
	plant, Company owned wit
	AUG 20 1953
	TISIN 10 11 12 1 12 3 4 5 6 ARTESIAN WELL SUPERVISOR ROSWELL, NEW MEXICO
	Midialihiza

7. Permit acreage to be served by well, 0.0 acres, to receive a total of	12 months
allowed by permit.	
8. The distribution system consists of overnight storage reservoir	feet of main canal;
give approximate capacity of reservoir or tank (if any)	cubic feet.
9. If above construction replaces an old well to be plugged or abandoned, fill out the	following: the well aban-
doned is located in the	p; Range;
Name of plugging contractor,	;
Well was plugged in accordance with terms of permit.	19
10. Give date "Well Record" was filed with State Engineer's Office,	B, 19. 53 .
11. Pump and power plant were installed and works completed	r10, 19.52.
The undersigned, owner and holder of Permit No.L=1568 being first duly s	worn upon his oath, states
that he has read the foregoing statements and that the same are true to the best of his k	•
Parker Drilling by: Subscribed and sworn to before me this. 18th day of August	det
My commission expires 9/26/53 Notary Pr	ablic
Affidavit of State Engineer's Representative	
I hereby certify that I have duly inspected the above Works and find them adequate	e and properly constructed
according to the terms and conditions of the permit. Note any exceptions	
Date, 8-20 , 1953	epresentative of State Engineer

- .

New min

Underground Waters

	Book No	LC-6	File No	L-1568				
	DOOR 110		1.10 110					
	Applicat	lon received .		<u>Jun. 4, 1</u>				
1.	Name of	applicant	<u> 0111pej</u>	_CCard		<u> </u>		
1	Postoffic	e address _		: Lovine				
Į.	County		Lea		, Stat	te ofNew	Mexico	
2.	Source	of water supp	ly	shallow (state	whether ar	rtesian or shall	ow ground water basin)	
*	located	in	Tea Cou	nty Unde				
			(name of u	nderground str	eam, valley,	, artesian basir		
. 3		-	ired by benef				lling	ригровез
	and is r	ecorded in th	he State Engl				-1568	
	the prio	rity date beli	ng	Septem	<u>er 16.</u>	1952		
1 4	. Area fro	m which cha	nge is propose	od. (a)21	50 GPH	net duty	Z acres, descr	ibed as follows:
• 7	36 37 1	Subdivision	Sec.	Twp.	Range	Acres	Owner	
	_none	_	•					
au (the	2 - 1101			4 1 2000	,	· , , , -		
,					:	A	7 T	· · · · · · · · · · · · · · · · · · ·
	·					. ——— -		
	. ———							
							· ·	
						·		
	(b) one	ntity of wate	r to be transfe	erred.	3.0		acre-feet. (c) su	pplied from well
· .	in the		•	¼,	NW		14, SW	¼
	of sect	ion 12	. Town	iship, 15 S	outh	. Rans	ge 37 East	, N.M.P.M.;
j							additional source of s	
•								
r' (4)	cation, File	No., acreage	and average	quantity or pi	roportion tu	приятья ручения	сп	
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•	,			· · · · · · · · · · · · · · · · · · ·			, , , , , , , , , , , , , , , , , , , ,	• •
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			,					
	5 Applie	ution to hereb	w mode to ch	anga niaga or	method of	use for the fr	bllowing ressons to	use
	5. Application	ution is hereb	by made to chi	ange place or	method of	use for the fo		
	5. Application Well	drille	d by Par	ker Dril	ling C	o. and t	o be abandoned	for Oil
	5. Application Well Well	drille	d by Par	ker Dril	ling C	o. and t		for Oil
	5. Application Well Well	drille	d by Par	ker Dril	ling Cused f	o. and t	o be abandoned	for Oil
	5. Applica Well	drille	d by Par	ker Dril	ling C	o. and t	o be abandoned	for Oil
	5. Application Well	drille	d by Par	ker Dril	ling Cused f	o, and t	o be abandoned	for Oil
	well	drille	d by Par	ker Dril ses and	ling Cused f	o. and t	o be abandoned watering pur	i for Oil
	well	drille drilli	d by Par	ker Dril ses and made, (a)	ling Cused f	o. and tor stock	o be abandoned: watering pur	oses.
	well well	drille	d by Par ng purpo	ker Dril ses and made, (a)	ling Cused f	o, and t	o be abandoned: watering pur	oses.
	well well	drille drilli	d by Paring purpo	made, (a)	ling Coused f	o. and tor stock	o be abandoned watering pur	oses.
 	well well 6. Acreas	drille drilling te to which che Subdivision NW SW 2	d by Paring purpo	made, (a)	ling Coused f	o. and tor stock	o be abandoned: watering pur	oses.
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This form shall be executed, preferably type-written, in triplicate and must be accompanied by a \$3.00 filing fee. Each triplicate copy must be properly signed and attested. If applicant is not recorded owner of water right, Change of Ownership affidavit must acompany this application. If additional space is required, use a separate sheet or sheets and attach securely hereto.

Note: It is unlawful, after a transfer has been completed, to apply water on the lands or uses from which right has been severed, or to use more water than the owner had a valid right to use before change was made. Supplementary water rights by their very nature, cease to exist for those lands from which rights are transferred; also hey cannot be transferred to other lands as new or primary water rights.

All blanks in Sections 1—8 shall be filled out fully and accurately. Secs. 2—4 Describe all essential features of the water right or rights involved in the proposed change. Sec. 5 Explain fully why change is desired or necessary. Sec. 6 Describe lands or uses to which change is to be made and set forth any other rights appurtenant thereto. Sec. 7 Explain any features or conditions not made clear in previous sections. Sec. 9 This section, to be filled out the State Engineer, gives his approval or disapproval of the application, the conditions under which approval is ranted and sets the limiting date for completing such changes.

Important: The location of the lands or uses to be changed from, the lands or uses to be changed to, and the well or wells involved in such change must be shown as accurately as possible on the above plat.

QUALITY PRESS~SANTA PE

CHANGE OF OWNERSHIP OF WATER RIGHT

	File No. <u>L-1568</u>
State of New Montes	Date Received 122-21
State of New Mexico,	{ 88,
	rilling Co.
•	_
of Box 1053; Lovington	, County of Lea
State ofNew Mexico	the owner and holder of a water right set forth in
file number <u>L=1568</u>	of record in the office of the State Engineer
at Santa Fe, New Mexico, has transferred	(all or part) of said water right
	, or Route 1; Lovington
County of Lea	, State of New Mexico
The transferred water right is appurtenan water right):	t to lands described as follows (describe only lands with actual
SUBDIVISION	SECTION TOWNSHIP RANGE ACREAGE
Pt. NWLSWL	1215 S37 E1.0
	FILED
	MAR 22 1954
	GROUND WATER SUPERVISOR ROSWELL, NEW MEXICO Total 1.0
The undersigned, being first duly sworn upo and that the same are true to the best of his kn	on oath, deposes and says that he has read the foregoing statements
	PARKER DRILLING CO.
	by. a C Ledet
Subscribed and sworn to before me this	Superintendent 15th day of March , A. D., 19 54
My commission expires:	
MY COMMISSION EXPIRES SEXT, 26, 1957	Notary Public
	INSTRUCTIONS
Change of ownership shall be filed in	

duplicate-for surface water rights.

triplicate-for underground water rights.

This form shall be executed either by transferor (seller) or by the transferee (buyer) and shall be accompanied by a filing fee of \$1.00. If executed by the transferee it shall be accompanied by a certified copy of the deed or other instrument of conveyance.

IMPORTANT: Any filing, permit or license to appropriate water may be assigned, but no such assignment shall be binding, except on the parties thereto, unless filed for record in the office of the State Engineer. Such filing shall be made out on Change of Ownership forms or may consist of certified copies of the actual agreement. In either case a filing fee of \$1.00 is required.

No irrigation right which is appurtenant to the land shall be assigned or transferred apart from the land excepting in the manner specifically provided by law. Neither may title to land be transferred apart from any water right which is appurtenant thereto unless such right has been previously alienated from the land in the manner provided by law.

STATE ENGINEER-Santa Fe, N. M.

BEGENVED

MAY 10 1954

APPLICATION FOR PERMIT To Appropriate the Underground Waters of the State of New Mexico LEA COUNTY UNDERGROUND BASIN 1. Name of applicant Parker Drilling Co. Postoffice address Box 1053, Lovington, New Mexico , State of New Mexico County of_ Shallow ground water basin (state whether artesian or shallow ground water basin) 2. Source of water supply____ LEA COUNTY UNDERGROUND BASIN 3. The well is to be located in the Township 15 S of section____ B. C. Dickinson 4. Description of well: driller contract not let diameter (outside) of casing_ __inches; type of pump and power plant to be used 4" turbine-Industrial engine 5. Quantity of water to be appropriated and beneficially used 250 GPH for a one year period Oil well drilling operations 6. Acreage to be irrigated_ located and described as follows (describe only lands to be irrigated): Subdivision Owner NONE (Note: location of well and acreage to be irrigated must be shown on plat on reverse side) 7. Time required to commence construction Immediately _l week Time required to complete the works____ Time required to fully apply water to beneficial use _______ year_ 8. Additional statements or explanations (including data ...on any other water rights appurtenant to above lands): To be used in oil well drilling operations only. SEP 9 1952 ARTESIAN WELL SUPERVISOR, being arm of Well-workering of h. Parker Drilling Co. and say that I have carefully read the foregoing statement and each and all of the items contained therein the same are true to the best of my knowledge and belief.

day of_

Subscribed and sworn to before me this 5th

My Commission expires Sept. 26.

1

APPROVAL OF THE STATE ENGINEER

		1200			Date rece	ived corre	cted			
Recorded in Book		3-6		:	Publicatio	n of notic	e order	ed		
Page		568			Name of					
Application received	Ser	ptember								
Date returned for corre	ction				Date of a	pproval	Se			52
This application is					_3					et of water
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he applicant complies									- 4-	
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Witness my hand	and seal t	his	19th	d:	ay of	Se	ptembe	7	7-3 ^{A.D}	o., 1953
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INSTRUCTIONS

This form shall be executed, preferably typewritten, in triplicate and shall be accompanied by a filing fee of \$5.00. Each of triplicate copies must be properly signed and attested.

A separate application for permit must be filed for each well used.

Secs. 1-4-Fill out all blanks fully and accurately.

Sec. 5—Irrigation use shall be stated in feet depth or acre feet of water per acre to be applied on the land. If for lomestic, municipal, or other purposes, state total quantity in acre feet to be used annually. Domestic use may include the irrigation of not more than one acre of lawn and garden for noncommercial use.

Sec. 6—Describe only the lands to be irrigated. If on unsurveyed lands described by legal subdivision "as projected" from the nearest government survey corners, or describe by metes and bounds and tie survey to some permanent, easily coated natural object.

Sec. 7-Estimate time reasonably required to commence and to complete project.

Sec. 8—If lands are irrigated from any other source, explain in this section. Give any other data necessary to fully describe water right sought.

If additional space is necessary, use a separate sheet or sheets and attach securely hereto.

Mr. 11610

THE RYDAL PRESS, SANTA FE, N. M.

STATE ENGINEER OFFIC STATE ENGINEER OFFICE STATE ENGINEER OFFICE WELL RECORD

Section 1. GENERAL INFORMATION

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Section 6. LOG OF HOLE

VSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. All sections, e at Section 5, shall be answered as completed and accurately as possible when any well is drilled repaired or deepened. When this is used as a clustering record, and is Section 5.

24 7 (**) MONROW (M. 7 (A. 7)

Driller

APPLICATION TO APPROPRIATE UNDERGROUND WATERS IN ACCORDANCE WITH SECTION 75-11-1 NEW MEXICO STATUTES

377

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1. Name	and Address of Applicant:	, , ,	o Kit it Pili	No. L-	7613
Joe	Barnes	STATE 5	NGINEER OFFICE	+	
Cro	ssroads	SAMPA	FE. N.M. 87501	t:	
New	Mexico				
2 Descri	ibe well location under one of the fol	llowing subheadings:			
	at	-			
a	¼¼		Twp. <u>15S</u> Rge.	37E	N. M. P. M., in
-	Coun	ity.			
b. Tra	ect No of Map No	of the			
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	•		-		
	e feet, Y =		, N. M. Coordinate S		
e. Giv	ve street address or route and box	No. of property upon whi	ch well is to be locat	ed, or location	on by direction and
	tance from known landmarks				
_					
3. Appre	oximate depth (if known)	100 feet; o	utside diameter of ca	sing	7 inches.
Name	of driller (if known) not cor	ntracted			
		• •	<u></u> _		
4. Use of	f water (check appropriate box or bo	xes):		6	
	Household, non-commercial trees,	lawn and garden not to exc	eed 1 acre.	O F GROUND WA:	্ৰ ব
Æχ	Livestock wateringrange ca			SWEE & O	즉 =
	Drinking and sanitary purposes an a commercial operation.	d the irrigation of non-cor	mmercial trees, shrub	s and dayins	
	Prospecting, mining or drilling ope	rations to discover or devel	op natural resources.	C E R SUPERVISOR W MEXICO	1976 1976
	Construction of public works, high	ways and roads.		<u>S</u>	
	If any of the last three were marke	d, give name and nature of	business under Rema	rks. (Item 5)	, v s
5. Rema	rks:				
1,		_, affirm that the foregoi			
and I	belief and that development shall no	t commence until approva	l of the permit has b	een obtained	•
(lae Barnes, App	licant			
7	App	licant			
By:_			Date:	October	5, 1976
		ACTION OF STATE EN	GINEER		
	plication is approved for the use ind				
	and 4 on the part of the part of the part of the part of the sell record filed on	reverse side hereof. This or before October	permit will automat 31, 1977	ically expire	unless this well is
	eynolds, State Engineer				
	01115	1			
By: _	Melhoun/Yel	20			
Dy	Delbert W. Nelson Assistant District I	I Supervisor			
Date	2-4-1 12	76		File No	L-7613
				. HO 110	

SANTA FE

WELL RECORD

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

ection 1	-			(A) Owns	r of wall	Mr	·s.	Nellie Fo	ort		
								e 1			
								ng o n			
											bocated in the
ļ	Į	ļ									Rge. 37E
									_		No. WD33
Ì	1							West Wasl			
		_						ington			
		\		•							1957
ļ	1			-							1957
(P	lat of 640	acres)		Driming w	as comple	:eu			-June 27		
evation	at top o	of casing	in fee	t above se	a level ur	ıknowı	a	Total dep	th of well.	140	
								Depth to wat			
ction 2					ICIPAL WA						
	Depth	in Feet	Thi	ckness in	<u> </u>		Descr	iption of Water	-Bearing For	———— mation	
No.	From	То	-	Feet			Jesci	ipiton of water	-Dearing Por	itacion	-***
1	115	140		95	Water	gand					
2	42	140			Havor.	parin					
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4		 									
5		<u> </u>			<u> </u>	·		, <u>,</u>			
ection 3	3				RECOR	D OF C	:ASII	NG			
Dia	Pound	. T	reads	De	epth	1				Perforat	ions
in.	ft.	* ''	in	Top	Bottom	Feet		Type Shoe	From	1	То
None	1			 	 	<u> </u>	_				
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	1				1						
	1			<u> </u>	<u> </u>		7				
		'''		·					·	<u>-</u> _	
ection ·	4			RECO	RD OF MUI	DDING	AND	CEMENTING			
	h in Feet		ameter	Tons		acks of			Methods U	Jsed	
From	To	HO.	le in in.	Clay	Cen	nent					
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l			· · · · · · · · · · · · · · · · · · ·	<u> </u>			<u> </u>				
i .	<u>i</u>										
	~				DI LICA	civic n		NAD.			
ection						SING R					
	-	-									
						•					
	-							•		-	
luggin	g method	d used						Date Pl	ugged		19
lugginį	g approv	ed by:						Cement Plu	gs were pla	ced as f	ollows:
.				Basin St		. [No.	Depth of I	Plug	No. of S	Sacks Used
			i i	E" 76" 'm.		- 7		1 21011			
	FOR U	SE OF	TATE E	MGINEER	ONLY			 			
l note	Dog-t	.	11	!! ว ว เก	i mar			 			
Date	Receive	"	ـنــــــــــــــــــــــــــــــــــــ	···· C.C. b'	J.			 			
,		1,	GROHNIN	OFFICE							
_			ROSY	WATER SITE	# Q\P : [χ _{ii} ,]	!					
321 - N	1-0	2×d 2				. et 1	Q.	√. Toesti	N-) =	(97	22 221

Depth in Feet Thickness Toolor Type of Material Encountered	ocquon o	1			71 17 200
10 10 10 white Sand, calliche and gravel		in Feet		Colon	Type of Matarial Engagntaged
10 25 15 white Hard rock 25 45 20 pink Sandstone 45 100 55 pink Watersand 100 120 20 red Watersand 120 140 20 white Quicksand	From	То	in Feet	Color	Type of Material Encountered
25 15 20 pink Sandstone 100 120 20 red Watersand 120 1140 20 white Quicksand 120 130 1	0	10	10	white	Sand, calliche and gravel
100 120 20 red Watersand	10	25	15	white	Hard rock
100 120 20 red Watersand 120 140 20 white Quicksand	25	45	20	pink	Sandstone
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	100	120	20	red	Watersand
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			-		
			 		
			1	1	

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 well.

claude -

3805

IMPORTANT—READ INSTRUCTIONS ON BACK BEFORE FILLING OUT THIS FORM

APPLICATION FOR PERMIT
ARTESIAN WELL SUPERVISOR
To Appropriate the Indestructure of the State of New Mexico

LEA	COUNTYI	NDERGRO	JNIIBASI	_N		OCT 13 1948
lication No. L-735	BookL(C-2r	ate Recei	vedOc.to	ber 13, 19	48
Name of applicant Nell:	ie Fort				OFFICE	STATE ENGINE
Postoffice address Route 1.	Lovingto	n New 1	(exico			
County of Lea			State of		Mexico	***************************************
Source of water supply	hallow Gr			n ground water b		
located inL	BA COUNTY	UNDERG	ROUND BA	SIN .		
(r	name of underg				1	,
The well is to be located in the.					•	
of section 22	-	15		Ran	ge37	, N.M.P.M.
on land owned by Nelli						
Description of well: driller Con						
diamenter (outside) of casing	16	······································	in	ches; type o	f pump and pov	ver plant to be used
Turbine Pu	шb		Butane	Power		
*.						
Quantity of water to be appro	priated and	beneficially	used	480		***************************************
for Agriou				(1000 0	epth or acre feet g	
Acreage to be irrigated		1 /	_			acres
						acres
located and described as follows	e (describe o	my mands to	o be irrigat	.eu):		
Subdivision	Sec.	Twp.	Range	Acres Irrigated		Owner
NE }	<u>2</u> 2	15	37	160	Nellie F	~~+
			37	100	MOTITO	01.0

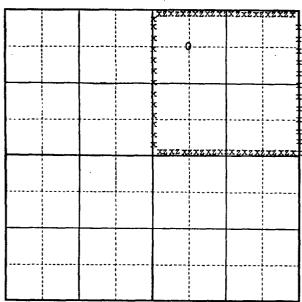
***************************************	····		***********			
	·······					***************************************

(Note: location of	well and acres			-		
Time required to commence com	nstruction					;
Time required to complete the	works	······································	ears	******		;
Time required to fully apply wa	ter to benefi	cial use	years			······································
Additional statements or explan	ations (inclu	iding data	on any oth	er water rig	hts appurtenant	to above lands)
					·····	

	······································		······			
Mars 1,	****************				····	
	***************************************			···		*****************************
	***************************************					***************************************
Nellie Fort	********************			, being first	duly sworn un	on my oath, depose
d say that I have carefully read	the foregoin	ng statemen				
e same are true to the best of m	y Knowledge	and belief.				
			Ne	Ilie For	سے م	, applicant
			By	od, c	4000	······································
bscribed and sworn to before me	this_7th		By A	od, c	HOY D	, A. D., 19 48

APPROVAL OF THE STATE ENGINEER

Number of this permit.	735	Date received correct	ed	
Recorded in BookLC	-2	-Publication of notice	ordered Oct	ober 14, 1948
Page73	5	Name of paper Lo	vington Pr	088
Application receivedOctober	13, 1948	_Affidavit of publication	n filedNove	mber 17, 1948
Date returned for correction	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	_Date of approval	lovember 23	, 1948
This application is approved for	r	480		acre feet of water
subject to all prior valid and existing	ng rights to the use of	the waters of said un	détatonng sont	ce and provided that
the applicant complies with all rule	s and regulations of th	e State Engineer perts	ining to the dri	lling of wells
l. Prior to the begin tractor shall firs or his representat	t obtain a well			
		~		
Works shall be completed and p			-	
Water shall be applied to bene			•	
This is to certify that I have ex				
of the State of New Mexico and l	ereby approve the sa	me subject to the foreg	oing provisions	and conditions.
Witness my hand and seal this	23rd	day of Alber	November	, A.D., 1948
			Assistant	State Engineer
LOCATE WELL AND ACREAGE Section (s) 22	TO BE IRRIGATED A	15 Ran	possible on ge37	FOLLOWING PLAT
		Lxexexexexexexe		•



INSTRUCTIONS

This form shall be executed, preferably typewritten, in triplicate and shall be accompanied by a filing fee of \$5.00. Each of triplicate copies must be properly signed and attested.

A separate application for permit must be filed for each well used.

Secs. 1-4-Fill out all blanks fully and accurately.

Sec. 5—Irrigation use shall be stated in feet depth or acre feet of water per acre to be applied on the land. If for lomestic, municipal, or other purposes, state total quantity in acre feet to be used annually. Domestic use may include he irrigation of not more than one acre of lawn and garden for noncommercial use.

Sec. 6—Describe only the lands to be irrigated. If on unsurveyed lands describe by legal subdivision "as projected" from the nearest government survey corners, or describe by metes and bounds and tie survey to some permanent, easily located natural object.

Sec. 7-Estimate time reasonably required to commence and to complete project.

Sec. 8—If lands are irrigated from any other source, explain in this section. Give any other data necessary to fully describe water right sought.

If additional space is necessary, use a separate sheet or sheets and attach securely hereto.

Opt. in sheet

IE BYPAL PRESS, SANTA FE, N.M.

IMPORTANT-READ INSTRUCTIONS ON 1 HATELEBEFORE FILLING OUT THIS FOR

APPLICATION SOFTENSOR

ROSWELL, NEW MEXICO

To Appropriate the Underground Waters of the State of New Mexico

	EA COUNTY	UNDERG	ROUND B	ASIN.			
plication No. 1-736	BookLC	ı	Date Recei	vedOctol	per 13.	1948CT 1	3 1948
Name of applicant Nellie							EENGINEE
	. Lovingt		**********			SANIA FE	, N. AL
County of Lea			State of	New Me	xico		
Source of water supply	Shallow G	round Wa	ater Bas	in			•
Donot of water paper	LEA COUNT			ground water l	(niaad		***************************************
located in	(name of undergr			*)		,
The well is to be located in the	3		N	T	14,	NW	
of section 23	, Township.	15		Ran	ge	37	., N.M.P.M.
on land owned by Nel							
Description of well: driller		t let		: depth to	be drilled	130	feet;
diamenter (outside) of casing	16					d power plant	
Turbine Pump			Rud	tane Powe			
Quantity of water to be appr	opriated and	beneficially	v used	480			
Agric	ultural an	-		(feet o	-	feet per acre)	
ior		160	***************************************			······································	purposes.
Acreage to be irrigated	***************************************	400				***************************************	acres
located and described as follow	rs (describe or	nly lands to	o be irrigat	ted):			
Subdivision	Sec.	Twp.	Range	Acres Irrigated		Owner	
NW]	23	15	37	160	Nellie	Fort	
2014					MOTITO		***************************************
***************************************	····		***************************************	***************************************	***************************************	······	***************************************

2007***********************************							***************************************
	*****			***************************************			***************************************
***************************************	*****	······			***************************************		***************************************

(Note: location o	f well and acrea	ge to be irrig	ated must be	shown on plat	on reverse	ilde.)	
Time required to commence co	onstruction	6	months	***************************************	·····		;
Time required to complete the	works	2	years	***************************************	***************************************		;
Time required to fully apply w	ater to benefic	ial use2	years	·····			
Additional statements or expla	nations (inclu	ding data	on any oth	er water rig	hts appurt	enant to above	a lands)
		*************			·····		***************************************

424***********************************					***************************************		
**************************************	******************						
	7						
I, Nellie Fort			,	. being first	duly swa	ים שמחו מי	ath denose
d say that I have carefully reac	the foregoing	g statemen	t and each	and all of the	he items co	ntained there	in, and that
e same are true to the best of i	ny knowledge	and belief.					
			Nellie	Fort	<u>_</u>	· ····································	., applicant
			By 6	J. J.	578		
bscribed and sworn to before m	e this 7th		dag o	, Octo	ber	, A. I	D. 19 48
			(Z).	.7	, 72,	7.1	,
Commission owning Sept.	12. 1951		عرب	ame		010	

APPROVAL OF THE STATE ENGINEER

Number of this permit	I_736		-Date received	l corrected	
					October 14, 1948
Page	and the second s				
					November 17, 1948
Date returned for correcti					
	•				acre feet of water
				•	d source and provided that
					the drilling of wells
			_	-	well drilling con-
tractor shall	first obt	ain a well	driller's	permit from	the State Engineer
or his repres	entative.		,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
,					
***************************************	***************************************	•••••••••••••••••••••••••••••••••••••••		and a contract of the same	
Works shall be comple	atad and areas	flad on or befor	. Nover	her 23, 1950)
					23, 1950
	-				ate the underground water
of the State of New Mex					
Witness my hand and	-		_day of	Norro	nhen 18
witness my nand and	i sear this		uay or	Horn	, A.D., 19_40
				Assi	stant State Engineer
					E ON FOLLOWING PLAT
Section (s) 23		, Township		, Range	, п.м.р.м
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INSTRUCTIONS

This form shall be executed, preferably typewritten, in triplicate and shall be accompanied by a filing fee of \$5.00. Each of triplicate copies must be properly signed and attested.

A separate application for permit must be filed for each well used.

Secs. 1-4-Fill out all blanks fully and accurately.

Sec. 5—Irrigation use shall be stated in feet depth or acre feet of water per acre to be applied on the land. If for domestic, municipal, or other purposes, state total quantity in acre feet to be used annually. Domestic use may include the irrigation of not more than one acre of lawn and garden for noncommercial use.

Sec. 6—Describe only the lands to be irrigated. If on unsurveyed lands describe by legal subdivision "as projected" from the nearest government survey corners, or describe by metes and bounds and tie survey to some permanent, easily located natural object.

Sec. 7—Estimate time reasonably required to commence and to complete project.

Sec. 8—If lands are irrigated from any other source, explain in this section. Give any other data necessary to fully describe water right sought.

If additional space is necessary, use a separate sheet or sheets and attach securely hereto.

W. .4111/

THE RYDAL PRESS, SANTA FE, M.M.

This form to be executed in triplicate.

OFFICE SERVICE REMARKS

PROOF OF COMPLETION OF WORKS UNDERGROUND WATERS

,	Permit No. L-735
State of New Mexico)
County of Lea	
r, Nellie Fort by Ed. For	et
	, County ofLea
State ofNew Mexico	, being first duly sworn, do hereby certify that I am the owner
and holder of a permit toAppropriate	water in the ste water, repair well, change of location of well)
	Basin, the waters from such source estan basin, etc.)
to be used for Agricultural and c	lomestic purposes
under said permit; that said application has been	filed and approved in the office of the State Engineer under
No. L=735	that the works necessary to accomplish
	rms of said permit have been completed; that all provisions and
** *	y the State Engineer have been fully complied with; that the fol-
	s completion of said works; and that the said statement and each
and all of the items contained therein are true to the	
	Nellie Fort
	by: A. J. Front
21ct	September 19 50
Subscribed and sworn to before me this	
	phi W. Shearm.
My commission expires:	Notary Public.
9/26/53	
8	STATEMENT
	SEP 25 1950
1. Name of appropriator Nellie Fort	ARTEGIA OF PIA
B	ARTESIAN WELL SUPERVISOR Ington, N. M. MENCO
2. Postoffice address Route 1: Lov	ington, N. M.
3. Underground water supply Lea County	Underground Basin
4. The well is located in theX	quarter of theNWquarter
of the NE quarter of t	Section 22 Township 15 South

W 4/4

5.	Nominal size (outside diameter) of casing or liner <u>10 1nch no.1e</u> inches.
6.	Depth of well 117 feet. 7. Approximate pumping depth feet.
١.	Description of pump: make yron Jackson ; type Turbine ;
	suction lift 10 feet; size and length of column 8 inch 80 feet;
	size and number of bowls 12 inch 2 stage ; total length 95 feet.
	Make, type, horsepower, etc., of power plant Ford "Y-8" 35 HP hutane engine
	Capacity of well 900 gals, per min, 11. Is well equipped with gate valve? no
	Name of driller Claude Tatum
	Has log of this well been filed with State Engineer or his representative?
	The distribution work consists of reservoirs feet of ditch,
	feet of flumefeet of pipc.
	Size of reservoir feet wide, feet long, feet average
	depth, cubic feet capacity, located in the
	Lands to be irrigated 160 acres, located in NE 1 Sec. 22, F15S, R37E, NMP
7.	. If there are other sources of water supply for these lands, describe giving file Nos., etc
	· · · · · · · · · · · · · · · · · · ·
3.	Works were completed. May, 1949.
•	. If above construction replaces an old well to be plugged or abandoned, fill out following:
	a. The well abandoned is located in the
	of Section, Range,
	b. Name of plugging contractor
	c. Well was plugged in accordance with terms of permit
	I hereby certify that I have duly inspected the above works and find them adequate and properly constructed accord-
1	
	g to the terms and conditions of this permit.
	g to the terms and conditions of this permit.
	g to the terms and conditions of this permit. Artesian Well Supervisor (or representative of State Engineer)
	Dalton Kinchelae

....

PROOF OF COMPLETION OF WORKS UNDERGROUND WATERS

	Permit No. L-	736
State of New Mexico	ss.	
Nellie Fort by Ed. Fort		
ofLovington	, County of	Lea
State of New Mexico	, being first duly sw	orn, do hereby certify that I am the owner
and holder of a permit to Appropriate w	ater	in the
Lea County Underground (name of underground reservoir, artes		
to be used for Agricultural and do	mestic	purposes
under said permit; that said application has been fi	led and approved in	the office of the State Engineer under
No. <u>L-736</u>		: that the works necessary to accomplish
lowing statement of facts is submitted in proof of the c and all of the items contained therein are true to the	=	
	by: Ed. i	1- 500 to
Subscribed and sworn to before me this 21st My commission expires:	day of	September 1950 (U. Alexanor Public.
Sept. 26, 1953		pare
g •	:	
ST	ATEMENT	SEP 25 1950
1. Name of appropriator. Nellie Fort		ARTESIAN WELL SUPERVISOR ROSWELL, NEW MEXICO
2. Postoffice addressRoute 1; Lovi	ngton, New Me	
3. Underground water supply Lea County	Inderground B	asin
4. The well is located in the X	quarter of the	NW quarter
of the	etion23	Township 15 South
Range37 East, N.M.P.M.	ı., inLe	a County.

2.11

ŀ	Nominal size (outside diameter) of casing or liner 16 inch hole inches.
.	Depth of wellfeet. 7. Approximate pumping depthfeet.
8.	Description of pump: make Byron Jackson ; type turbine ;
	suction lift 10 feet; size and length of column 8 inch 80 feet ;
}	size and number of bowls 12 inch 2 stage ; total length 95 feet.
).	Make, type, horsepower, etc., of power plant Ford "V-8" 35 HP butane engine
	Capacity of well 900 gals, per min. 11. Is well equipped with gate valve? NO.
ĺ	Name of driller Claude Tatum
ŀ	
8. N	Has log of this well been filed with State Engineer or his representative?
ŀ	The distribution work consists of feet of ditch,
•	feet of flume, feet of pipe.
ŀ	Size of reservoir feet wide, feet long, feet average
	depth, cubic feet capacity, located in the %, %,
	Lands to be irrigated 160 acres, located in NW Sec. 23, T15S, R37E, NMPN
1	
J	No. of the state o
ŀ.	If there are other sources of water supply for these lands, describe giving file Nos., etc
•	
ı	
8.	Works were completed. May, 1949
ì	If above construction replaces an old well to be plugged or abandoned, fill out following:
ļ	a. The well abandoned is located in the
	of Section, Range,
l	b. Name of plugging contractor
	c. Well was plugged in accordance with terms of permit
ì	I hereby certify that I have duly inspected the above works and find them adequate and properly constructed accord-
I.	to the terms and conditions of this permit.
	s to the terms and conditions of this permit.
	Artesian Well Supervisor (or representative of State Engineer)
	Date 9-28-50
	THE BYDAL PRESS, SANTA FE, N. W.

IMPORTANT—READ INSTRUCTIONS ON BACK BEFORE FILLING OUT THIS FORM

APPLICATION FOR PERMIT 1957 MAY 28 PM 2: 09

1-10-2-21 01

To Appropriate the Underground Waters of the State of STATE ENGINEER OFFICE SANTA FE, N. M.

Name of applicant Nellic	Book. L	C-2b2 I	Date Recei	ved Mar	ch 20,	1957	
Mame or applicant MCTTT	Fort						-/
Postoffice address Route	1		City or To	wn Lo	ringto	n	······································
County of Lea			State of _	Ne	v Mexi	C.	
Source of water supply	Shallow_	hethèr artesia			h		
located in Lea Co	ounty Un				DES 1117		
100-104	(name of under	round stream.	valley, crtes	ian basin, etc.	,	NE	,
The well is to be located in th					—-¼, <u>—</u>	<u>₩</u>	
	, Township		nrn	, Rar	1ge 3 /	East	-, N.M.P.M
on land owned by Nell						150	
Description of well: drille 10							feet
diamenter (outside) of casing						nd power plan	t to be used
turbine pump with	n indust	LIMITEL	igrue				
Quantity of water to be app	·			hree (2) 00	bined di	1+35
				(feet	depth or act	e feet per acre)	шу
forAgricultura							purposes
Acreage to be irrigated	320_c	ombine	l_duty_				acres
located and described as follo	ws (describe o	nly lands t	o be irrigat	ed):			
Subdivision	Sec.	Twp.	Pa===	Acres		0	_
NE NW/4	23	-	Range	Irrigated	N-374	Owne	5
NE'/4	36 22	15 S /5 S	_37_E 37 <i>E</i>	160	Netti	e Fort	
		133	3/6	765			
							·······
							
							
							
(Note: Inention			_				
(Note: location		3 74					
Time required to commence of	construction						
Time required to commence of	construction	6 m	onths_				
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APPROVAL OF THE STATE ENGINEER

Number of this permit	L-735	& L-7	36 Com	b-81	Date rece	ived cor	ected		
Recorded in Book	LC-21							ed Mai	rch 27, 1957
Page	735								ngton Press
Application received-	March	20, 1	957						oril 22, 1957
Date returned for corr	ection					approval		May 29,	
This application is		for				plemen			scre feet of water
						s of said	underg	ound sou	rce and provided that
the applicant complies									-
							_		he State Engineer
of New Mex1	co. Ap	propri	ation	of wat	er fro	om a11	source	es comb	ined to be limited
at all time	s to a	maximu	m of 3	acre	feet p	er acr	e per	annum.	
			'			<u> </u>			
Works shall be con	npleted an	d proofs	filed on o	or before	May	y 30, 1	958		
Water shall be ap									
This is to certify	that I have	examine	d the ab	ove appli	cation fo	or permit	to appr	opriate th	e underground waters
of the State of New	Mexico and	d hereby	approve	the sam	e subject	to the fo	regoing	provisions	and conditions.
Witness my hand	and seal t	his	29th		day of-		May		, A.D., 19 <u>_57</u> .
							S. E.	Reynold	
TOCATE WELL AND	ACREAG	r to be	TODICA	ል ታ ሆክ ልዩ	ACCITE	A TOTAL V	AE POSS	IDIT ON	State Engineer FOLLOWING PLAT:
	# 23		Towns					_	ast NMPM.
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					UCTIONS				,
This form shall be Each of triplicate cor						ate and sl	nall be a	companie	d by a filing fee of \$5.00.
A separate applic			•			used.			
Secs. 1-4—Fill out						-			
									lled on the land. If for
domestic, municipal, of the irrigation of not									omestic use may include

Sec. 6-Describe only the lands to be irrigated. If on unsurveyed lands describe by legal subdivision "as projected" from the nearest government survey corners, or describe by metes and bounds and tie survey to some permanent, easily located natural object.

Sec. 7—Estimate time reasonably required to commence and to complete project.

Sec. 8-If lands are irrigated from any other source, explain in this section. Give any other data necessary to fully describe water right sought.

If additional space is necessary, use a separate sheet or sheets and attach securely hereto.

UNDERGROUND WATERS

29 Authorization of and Instructions to Registered Engineer and/or Land Surveyor TATE ENGINEER, N.M.

Office of State Engineer. MANAGEMENT PROPERTY. Roswell, New Mexico September 25, 1958

Symbol

1/4" Circle

%" Square

Letter 8

14" Diamond

Les Engineering Co. Registered Engineer and/or Land Surveyor

17 W. Washington, Lovington, New Mexico

Dear Sir:

This is to advise you that in accordance with the rules and regulations of the State Engineer pertaining to underground waters, you are hereby authorized by the State Engineer to make a final inspection and report upon Permit No.Le-735 & Le-736-Comb. in the name of Mrs. No.lie Fort Route 1, Lovington, New Mexico whose post office address is ...

The inspection shall comprise a thorough field examination including an instrument survey of the irrigated lands and the location of the works. The discharge capacity of the well should be verified by field measurements when possible.

In case of a permit to change location of well and/or place or method of use, inspection and survey shall be made of the well and/or lands from which rights were to be severed to prove that permittee has fully complied with that part of his permit. A permit to change can in no way extend or increase the water rights of the permittee. It is therefore essential that the irrigation of any new lands must involve the abandonment of a like acreage from which right is severed. Further, supplementary water rights, by their very nature, automatically cease to exist for those lands from which rights are transferred.

A plat to accompany the report shall be prepared with permanent black India ink on good quality tracing cloth, 17" wide and 23" long on the trim lines with margins of 1" on the top, 1/2" on the right side and bottom and 11/2" on on the left side for binding purposes. The map shall have a scale of 1" equals 400'. The map shall show the legal subdivisions, accurate locations of the well or wells, reservoirs if any, main canals, streams, highway and other important cultural features. Acreage irrigated shall be clearly indicated on the map. Each source of water used for irrigation shall be designed by the symbols hereinafter given. Primary source shall be designated by the appropriate symbol placed in the corners, and around the perimeter as needed to clearly delineate the area, with 1/4" tick marks parallel to the boundaries of the irrigated area. Acreage irrigated by secondary or supplemental source or sources shall be delineated by the proper symbol or symbols to designate the source or sources with the 1/4" tick marks placed at a 30° angle to the north-south line and so arranged that when the tick marks are connected a wide spaced crosshatching at 30° to the north-south line results.

Source of Supply Artesian Ground Water Shallow Ground Water Surface Water Artificial Water

The location of the well or wells from which water is derived shall be accurately determined and plotted on the map. The course and distance, or coordinate distances, from a known legal subdivision corner shall be shown. A %" circle of solid color shall represent an artesian well and a %" square of solid color shall represent a shallow well. Sections and subdivisions thereof in which the works and the lands lie shall be clearly indicated and the number of acres irrigated within the subdivisions shall be shown. When a part of a ten-acre subdivision is irrigated the acreage within the ten-acre subdivision must be clearly shown. The ownership of lands and file numbers pertinent to the filing shall be shown on the man

Where lands actually irrigated vary from the lands approved in the permit, these variations shall be designated and noted upon the map. They shall also be noted in the space provided under "Engineer's Certificate" on the "Proof of Application of Water to Beneficial Use" form. Any other variations from the approved location of well, description of lands from which rights are transferred, etc., shall also be noted in that space. If lands have been abandoned or are fallow, lettering within the tract should so indicate. The location and size of any reservoirs shall be shown on the map and shall be included in the total irrigated acreage surveyed. The main ditches shall be shown and the direction of flow shall be indicated.

riat or ordergroun	d water Project to ac	company engineer's	report on permi		***************************************
(appropriate the	Appropriate underground waters				d of use, etc.)
Permit No. L-735	& L-736-Comb.	Mrs.	Xellie Fort		Permitte
	vater has been benefici				
en-acre subdivision wh	ere necessary) as folk	ows:	_	-	
SUBDIVISION	SECTION	TOWNSHIP	RANGE	ACRES	OWNER*
	***************************************	***************************************	***************************************		
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ready for final action you may so advice permittee and, upon his formal application to the State Engineer for extension of time, additional time to more fully apply water to beneficial use may be allowed.

co: State Engineer

Proof of Works have been filed Proof of Beneficial Use due November 23, 1959

Engineer's Plat & Report due November 23, 1959

Fees required---\$10.00

PROOF OF APPLICATION OF WATER TO BENEFICIAL USE

Underground Waters

Date of Receipt				Permit No	L-735 & 736 Com	b.
Post office addressRou	tel.,	Loving	ton			•••••
County ofL						
This permit, numbered	L-73	5 & 73	6 Comb	*	was fo	rmally approved by
the State Engineer					**************************************	, 19,
to appropriate t	he sha	llow_g	round.	waters.		
(appropriate in the Lea Count	the artesi y Unde	en or shall rgrounder c of under	low ground idBasil ground rese	l waters, ch	iange place or method of use	, etc.)
The point of diversion	or locati	on of the	well is des	cribed and	L-735 er File NoL-736	
- NET.T					74, NE	
79					37 Kast	
	_				than one well irrigates the	
					File No., source of sup	
L-735 & L-736 Co					_	
Est. well capaci						
•	************		***************************************	·		······
Storage capacity of reservo	ir, if any,	is	none			
		IBRIGAT	TION AND	DOMEST	IC USES	
A total of 597.3.			acre feet o	f water is	required to be delivered	on the land during
					to October	-
for the proper irrigation of						
			_		ee (3)	acte feet per acre
					acres of land	
Subdivision	Sec.		Bange			
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36 <u>*** ***</u>	***************************************		• •••••••	***************************************	·	Z
					Nellie Fort	
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swinwi	23	.15S	3.7E	27.1	Nellie Fort	***************************************
sełnwł	23	158			Nellie Fort	
14.00						

MANUFACTURING, COMMERCIAL AND LIKE USES

The maximum diversion allowed under	(gallons per minute or cubic feet per second)
average rate of flow required is about	
During the year from	(gallons per minute or cubic feet per second) to, a maximum
· ·	
(gallons per minute or cubic feet per second)	vas diverted and beneficially used in
section, Township	Range N.M.P.M. for
	purposes and the total
	acre feet.
	n, upon my oath, state that the above data are submitted in proof of
• • •	Permit No. L-735 & L-736 Combined ;
•	f the items contained therein are true to the best of my knowledge and
elief.	
mei.	Nellie Fort
ubscribed and sworn to before me this	10 day of Navember 10 J 9
/!	1963 Evelyn DiBriOgfor
dy commission expires. While The	(Notary Public)
	ENGINEER'S CERTIFICATE
tate of New Mexico	
County of Lea	
i, John W. Shearman	, of Levington,
	,
being first duly sworn, upon my oath, state	e that I am a registered professional engineer and/or land surveyor; that
peing first duly sworn, upon my oath, state thave made a complete examination of the peneficially applied on the lands in account and conditions imposed by the Permit.	e that I am a registered professional engineer and/or land surveyor; that the lands involved in above Permit; and that water
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PROOF OF COMPLETION OF WORKS

UNDERGROUND WATERS

	Date of Receipt September 1, 1957 Permit No.L-735 & L-736 Combined
	Name of permittee. Nellie Fort
1	P. O. address Route 1, Box 510 City and State Lovington, New Mexico 1-735 & L-736 Permit No. Combined S.s. to Appropriate (appropriate, repair well, change location of well)
	in the Lea County Underground Basin (name of underground reservoir, artesian basin, etc.)
	Description of well: location, SW 4, NE 4,
	Township. 15 South., Range. 37 East; total depth,150 feet; outside diameter of top casing
	(or hole, if uncased) 16 inches; if artosian, is well equipped with gate valve? ; name
	and address of driller, Claude Tatum ;
	Date drilled,
3.	Record of Pumping Test (to be supplied by person or firm making test; Name and address of person making
	test, No Test
	date of test,
	mediately afterwardfeet; Length of test,hours; average discharge,
	Specific capacity of well,
	Description of pump: Make, Byron Jackson
•	type, 2KH 2-Stage ; If turbine type, give size of column, 811 inches; diameter of
	bowls 12 inches; number of bowls 2 length of suction pipe, 10* feet; total
	length of column, bowls and suction pipe, 100 t feet; if centrifugal type, give size of pump
	length of column, bowls and suction pipe,
	inches; if other type, describe,
	,
	rated capacity of pump (if known). 1000 G.P.M., at 1750 rev. per min., from a depth of 84 feet.
5.	Description of power plant: make, 1957 Chevrolet, 6 Cyl. Motor
	type,; rated horsepower (if available); type of drive connection
	to pump, WL 1:1 Spicer ; date of installation of power plant, 6-25 19 57
в.	Actual discharge of pump,
	Date of test, 19; Name and address of dealer supplying pump and power
	plant,
	FILED
	SEP 25 1957
	nerics .

OFFICE
GROUND WATER SUPERVISOR
ROSWELL, NEW MEXICO

7.	Supplemental on Permit acreage to be served by well, 320 acres, to receive a total of 960 acre feet of water
	allowed by permit.
8.	The distribution system consists of overnight storage reservoir. No and 4000 feet of main canal; (yes or so)
	give approximate capacity of reservoir or tank (if any)
9.	If above construction replaces an old well to be plugged or abandoned, fill out the following: the well aban-
	doned is located in the
	Name of plugging contractor,;
	Well was plugged in accordance with terms of permit
10.	Give date "Well Record" was filed with State Engineer's Office,
11.	Pump and power plant were installed and works completed June 25, 19.57
	L-735 & L-736 The undersigned, owner and holder of Permit NoCOUDASUPP.s., being first duly sworn upon his outh, states
the	it he has read the foregoing statements and that the same are true to the best of his knowledge and belief. Hellie Fort
м	Subscribed and sworn to before me this 4 th day of Sternher 19.77 commission expires COLONG COLONG 27, 19 Danger Public
	Affidavit of State Engineer's Representative
)	I hereby certify that I have duly inspected the above Works and find them adequate and properly constructed
ac	cording to the terms and conditions of the permit. Note any exceptions. Field check made January 6,
1	960, indicates L-735 & L-736-Comb-S, to be located in the NW4SW4NE4 of Section 22,
T	ownship 15 South, Range 37 East and to be equipped with a Byron Jackson Turbine Pump
a 	nd powered by a 1957 Chevrolet 6 Cyl Industrial Engine.
	Groundwater Supervisor or other representative of Staps Engineer
Da	te,January 11, 19 60
l	·

WELL RECORD

File No. L-1207

INSTRUCTIONS: This form should be typewritten, and filed in the office of the State Engineer, (P.O. Box 1079) Santa Fe, New Mexico, unless the well is situated in the Roswell Artesian Basin, in which case it should be filed in the office of the Artesian Well Supervisor, Roswell, New Mexico. Section 5 should be answered only if an old artesian well has been plugged. All other sections should be answered in full in every case, regardless of whether the well drilled is shallow or artesian in character. This report must be subscribed and sworn to before a Notary Public.

Owner of well Parker Drilling Co. Street and Number P. O. Box 1053. Post Office Well was drilled under Permit No. 1-1207. and and is located in the M. ME M. E. W. of Section 15. Township 15S. Range 37E. Drilling Contractor C. O. Aldredge Street and Number Locate Well Accurately Post Office Peth of 640 acres Street and Number Locate Well and accurately Post Office Peth of search and Number Locate Well and accurately Post Office Peth of search and Number Locate Well and accurately Post Office Peth of search and Number Locate Well is shallow or artesian Found depth of well feet. Fac. 2 PRINCIPAL WATER-BEARING STRATA OCT 27 1952 PRINCIPAL WATER-BEARING STRATA OCT 27 1952 PRINCIPAL WATER-BEARING STRATA OCT 27 1952 OCT 27 1952 PRINCIPAL WATER-BEARING STRATA OCT 27 1952 PRINCIPAL WATER-BEARING S	Sec. 1										
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Township 15S Range 37E Committee Comm								•			
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Dilameter Pounds Threads Name of Per North Hole in Inches Per Pounds Per North Per Pounds In Inches Per Pounds Inches Inc								,			
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THICKNESS IN FEET CLASSIFICATION OF FORMATION

FROM (depth in feet)

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belief, the foregoing information be determined from all a	I,do solemnly swear that, to the best of my knowledge are clief, the foregoing information is a true and correct record of the well for which report is hereby made, insofar as case determined from all available records.							
			rker Drilling Co					
			. Ledit, Supervisor					
/s,	/ John W. Shearman Notary Public	Street and Numb	er					

My Commission Empires Sept. 26, 1953 Post Office

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26/1/1	į	-, -

WELL RECORD

File	No

INSTRUCTIONS: This form should be typewritten, and filed in the office of the State Engineer, P. O. Box 1079, Santa Fe, New Mexico, or in the office of the Artesian Well Supervisor, Roswell, New Mexico. Section 5 should be answered only if an old artesian well has been plugged. All other sections should be answered in full in every case, regardless of whether the well drilled is shallow or artesian in character. This report must be subscribed and sworn to before a Notary Public.

			P	-	2,	L-120%	
	Own	er of well 100	elecz	Dull	011	-60;	
 	Stree	et and Number					
	NF	Office ISU	1196	- XU	209	22/200	_
	iiil	was drilled under		14/10 91	w///	or nil 7	ul
 		1/2	Permit No.2	L'	mig	15	a
 	is lo	ocated in the		K4		f Section	••
SW	Tow:	nship/() 50		, Bengo 3	1 5	75/	
	Drill	ling Contractor	30rll	Mille		/_/	
	Stre	et and Number	147	BILL	22	24 1	
(Plat of 640 Locate Well A		Office JOSE	0169	Tow ?	1116	MULLCE	<u>a</u> .
Orilling was commence	11119 -	3 <i>0</i> , 19 <i>6</i> / Dr	illing was co	ompleted.		3/	/
	ng in fest above sea le	vel f				······	
State whether well is sh Fotal depth of well	19 4	ater level upon com	pletion of v	vell 32	feet	below land surface	 A.
Sec. 2		CIPAL WATER-BE			1		_
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No. 2, from	to ///	, Thickness in fee	_Z.2	, Formati	ion. Ta	al Upliza	Sale
No. 8, from	tg_/ZO	, Thickness in fee	10	Formati	ion.JU	LCAL SA	24
No. 4, from	to	, Thickness in fee	t	Formati	lo ri		
No. 5, from	to	, Thickness in fee		Formati	ion		
Sec. 3		RECORD OF	CASING				
Diameter Pounds in Inches per Foo		me of Feet of Casing	Type of Shoe	Perforated From	To	Purpose]
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					<u> </u>	ace L.C.	·
Sec. 4	RECOR	RD OF MUDDING	AND CEMI	NTING			_
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Hole in Inches	of Cement	Methods U	Jsed	of Ma		Clay Used	
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Sec. 5		UGGING RECORD					
	e4					1p 77 9	~ ••
	Name of plugging						
	Tons o						-
	Tons						
Cement plugs were pla			heading	- Provou by Al	W	ar Supervisor:	
		feet Nu	mber of sack	s of cement us	ed.)
				1			_
	***************************************			, ,	ľ	AUG 3 1951	
No. 4 was placed at	***************************************	feet. Nu	mber of sack	s of cement us	d	OFFICE.	
No. 5 was placed at	····	feet, Nu	mber of sack	s of cement us	d ARTES	IAN WELL SUPERV	ISUR 30
•		(over)					

PLUGGING RECORD 9-19-5

1-1207 1...

FROM (Depth in Feet)	TO (Depth in Feet)	THICKNESS IN FEET	CLASSIFICATION OF FORMATION
	1		CEASIFICATION OF PORMATION
			
			
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I, do solemnly swear that, to the best of my knowledge and belief, the foregoing information is a true and correct record of the well for which report is hereby made, insofar as can be determined from all available records.

SUBSCRIBED AND SWORN TO BEFORE ME this	Signed
, A.D., 19	Position
Notary Public	Street and Number
My Commission Expires	Post Office



IMPORTANT-BEAD INSTRUCTIONS ON BACK BEFORE FILLING OUT THE GFORM 1951

i.e.

APPLICATION FOR PERMIT STATE ENGINEER

	To Appropriate the Underground Waters of the State of New Mexico
	LEA COUNTY UNDERGROUND BASIN
	lication No. VI-1207 Book VIG-4 Date Received September 4, 1951.
	Name of applicant Parker Drilling Co.
	Postoffice address Lovington
	County of Lea State of New Mexico
	Source of water supply Shallow
	(state whether artesian or shallow ground water basin)
	located in Lea County Underground Basin (name of underground stream, valley, artesian basin, etc.)
	The well is to be located in the X 4, NE 4,
	of section 55 Township, 15 South Range 37 East N.M.P.M.
	on land owned by unknown
	Description of well: driller G. O. Aldridge ; depth to be drilled 100' M or Lfeet;
	diamenter (outside) of casing 7 inch hole inches; type of pump and power plant to be used
	Cylinder type pump with butane engine
	Quantity of water to be appropriated and beneficially used 250 GPH average
	Oil coll desilies
	Acreage to be irrigated none scree
	located and described as follows (describe only lands to be irrigated):
	Acres Subdivision Sec. Twp. Range Irrigated Owner
	<u>none</u> <u>15</u> <u>15S</u> <u>37E</u> <u>none</u>
	B D Proces Report
	AUG 23 1951
	ARTESIAN WELL SUPERVISOR
	ROSWELL, NEW MEXICO
	(Note: location of well and acreage to be irrigated must be shown on plat on reverse side.)
	Time required to commence construction at once
	Time required to complete the works. 6 months ;
	Time required to fully apply water to beneficial use. 1 year
	Additional statements or explanations (including data on any other water rights appurtenant to above lands)
	This well to furnish water for rotary tool oil well drilling
	rig operated by the Parker Drilling Co. for General American Oil
	Co. in approximately the center of the above described 40 acres.
	I, CoO. Aldridge for Parker Drg. Co., being first duly sworn upon my cath, depose
	I say that I have carefully read the foregoing statement and each and all of the items contained therein, and that same are true to the best of my knowledge and belief.
	Dankon Dailline Ca
	Parker Drilling to applicant
	by: b.b. Willelige
Ì	escribed and sworn to before me this 27th. day of August , A.D., 1951
	Commission expires Sept. 26, 1953

1/1.

APPROVAL OF THE STATE ENGINEER

3											
umber of this permit	L-120	7		1	Date rece	lved corr	ected				
Recorded in Book ——						- Publication of notice ordered					
age	1207				Name of	paper-					
pplication received	August	31, 1	951.			-	ation filed-				
ate returned for corre	tion	,11		٠ ــــــــــــــــــــــــــــــــــــ	Date of a	pproval 🕹	Septem	ber	4. 1951.		
This application is	approved	for		3	3				scre feet of water		
ubject to all prior valid	and exis	sting righ	its to the	use of t	he 'water	of said	undergrou	id sou	rce and provided that		
he applicant complies v	vith all ru	ules and i	regulatio	ns of the	State Er	gineer p	ertaining to	the dr	illing of wells		
Well to be dril	Led by	drilli	ing co	ntracto	or lice	nsed 1	don of	reter	to be limited		
Diameter of well	L not	to exce	3ea /	inches	• whhi	opriac	nd 011 1	ma 101	drilling		
at all times to	3 acr	e leet	per a	nnum I	letten	of oil	the Clar	-1771	ng operations.		
purposes. Well	to be	pringge	ed upo	n comp.	Tecton	<u>, , , , , , , , , , , , , , , , , , , </u>	MOTI (1)		mg operations		
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<u> </u>						Cond	tember 4	104	32		
Works shall be com	pleted an	d proofs	filed on	or before		Бері	ьешоег 4	<u>, 17.</u>	12.6		
Water shall be appl	led to be	eneficial u	se and p	proofs file	d on or	before —	•				
						, .			e underground waters		
of the State of New M						to the fo					
Witness my hand a	nd seal t	hls—	<u> 4t1</u>	<u>. </u>	day of		17/1	ember	, A.D., 19——		
`		-	•				ABBI	stan	State Engineer		
LOCATE WELL AND	ACREAG	е то в	IRRIG	ATED AS	ACCUR	ATELY A	AS POSSIB	LE ON	FOLLOWING PLAT:		
Section (s) 15			., Towns	hip	<u> 15_</u> So	uth I	Range	37 E	ast, N.M.P.M.		
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· 自由		*	3	**********			- T. P. S. 197	er est	विद्युक्त १६३, ५७६०		
This form shall be Each of triplicate copi	executed	d, prefers be proper	ably type	ewritten,	UCTIONS in triplica ested.	ite and sh	all be accor	npanie	d by a filing fee of \$5.00.		
A separate applica						used.					
Secs. 1-4-Fill out a				•	• -		and w				
Sec. 5—Irrigation u domestic, municipal, or the irrigation of not m	other pu	irposes, s	tate tota	ıl quantity	y in acre	feet to be	used annus	be app illy, D	lied on the land. If for omestic use may include		
Sec. 6-Describe on	ily the las st govern	nds to be ament sur	irrigate	d. If on t	unsurveye	d lands	describe b	y legs	al subdivision "as pro-		

Sec. 7—Estimate time reasonably required to commence and to complete project.

Sec. 8—If lands are irrigated from any other source, explain in this section. Give any other data necessary to fully describe water right sought.

If additional space is necessary, use a separate sheet or sheets and attach securely hereto.

PROGRESSIVE PUBLISHING CO., MOUNTAINAIR, N. M.

Q..../

(This form to be executed in triplicate)



PROOF OF COMPLETION OF WORKS 1952

STATE ENGINEER

UN	ID	ER!	GR	ΟU	IND) W	ΆΊ	TERS
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Parker Drilling Company P. O. address. Box 1053	w Mexico ::
Permit No. L=1207 to Appropriate (appropriate) (appropriat	iii)
in the Lea County Underground Basin (name of underground reservoir, artesian basin, etc.) 2. Description of well: location,	
2. Description of well: location,	
2. Description of well: location,	
Township15 SouthRange 37 East; total depth,120 feet; outside dis	etion15
•	
(or hole, if uncased)	meter of top casing
	name
and address of driller,C. O. Aldredge, Lovington, New Mexico	·
Date drilled, October 5	, 19 <u></u> 5.L
3. Record of Pumping Test (to be supplied by person or firm making test; Name and addre	ss of person making
tost, None Made	;
date of test,; depth to water before test,	feet, and im-
mediately afterward,feet; Lenth of test,hours; average discharge	G.P.M.;
Specific capacity of well,gal. per min. per ft. of drawdown.	
4. Description of pump: Make, Peerless	
type, Turbine ; if turbine type, give size of column,	inches; diameter of
bowls; length of suction pipe,	O feet; total
length of column, bowls and suction pipe,100feet; if centrifugal type, give size of	of pump
inches; if other type, describe,	
rated capacity of pump (if known) 250 G.P.M., at 1760 rev. per min., from a de	
5. Description of power plant: make,U_ 2 International	
TORIGINAL STATE OF THE CONTROL TO THE CONTROL OF TH	
type, Ind. ; rated horsepower (if available) 22 ; type	e of drive connection
to pump, Shaft ; date of installation of power plant, Oct.	19_51
6. Actual discharge of pumpEst. 200 G.P.M., at 1760 rev. per min., from a depth	of 80 feet;
Date of testNone, 19; Name and address of dealer supply	ing pump and power
plant, Co. Unit	
SEC 1	72
AMERSTAN FEEL OOS WED, LOOK FEEL	H = 1. 124

7.	Permit acreage to be served by well,Noneacres, to receive a total ofacre feet of water
	allowed by permit.
8.	The distribution system consists of overnight storage reservoir, andfeet of main canal;
	give approximate capacity of reservoir or tank (if any)cubic feet.
9.	If above construction replaces an old well to be plugged or abandoned, fill out the following: the well abandoned
	is located in the
	Name of plugging contractor,
	Well was plugged in accordance with terms of permit
10.	Give date "Well Record" was filed with State Engineer's Office,Qct
11.	Pump and power plant were installed and works completed
٠.	The undersigned, owner and holder of Permit No. 1,-1207, being first duly sworn upon his oath, states
tha	t he has read the foregoing statements and that the same are true to the best of his knowledge and belief.
,	ac Ledet
	Subscribed and sworn to before me this. 8. th. day of September 19.52.
Му	commission expires 9/26/53 Than to Thearman
	Affidavit of State Engineer's Representative
	I hereby certify that I have duly inspected the above Works and find them adequate and properly constructed
acc	ording to the terms and conditions of the permit. Note any exceptions

	10 M. A. Mal
	Groundwater Supervisor or other representative of State Engineer.
Da	te,
•	
	Plugged

• . .

INSTRUCTIONS: This form should be typewritten, and filed in the office of the State Engineer, (P.O. Box 1079) Santa Fe, New Mexico, unless the well is situated in the Roswell Artesian Basin, in which case it should be filed in the office of the Artesian Well Supervisor, Roswell, New Mexico. Section 5 should be answered only if an old a been plugged. All other sections should be answered in full in every case, regardless of whether the well low or artesian in character. This report must be subscribed and sworn to before a Notary Public. low or artesian in character. This report must be subscribed and sworn to before a Notary Public.

Sec. 1							•	OCT 271	W
		_						ST	952
		Owner	r of well	Park	er Dril	ling Co	mpany	STATE ENG	INEFE
NW	N.E	Street	and Nun	nber				***************************************	
		Post (Office Bo	ox 1053	, Lovin	igton, 1	New Me	xtico	*************
 		Well	was drille	ed under P	ermit No. I	-1237		and	
		is loca	ated in th	e	14 N. E	¥N	E4	of Section . 15	
	S.E	Towns	ship	5South	l	Range	37 Eas	i t	
				-				ıy	
(Plat of 640 a									
Locate Well Acc	•				· -	_		[exico	
Drilling was commenced									
Elevation at top of casin									
State whether well is si									
Total depth of well									
Sec. 2			_		ING STRA	-			
No. 1, from									
No. 2, from									
No. 3, from	to	, 5	Thickness	in feet		, Formation			
No. 4, from	to	, •	Thickness	in feet	• • • • • • • • • • • • • • • • • • • •	, Formation			
No. 5, from	to .	, •	Thickness	s in feet .		, Formation			
Sec. 3			RECO	RD OF CA	SING				
DIAMETER POUNDS IN INCHES PER FOOT	THREADS PER INCH	NAME MANUPA		FEET OF CASING	TYPE OF SHOE	PERFO.	RATED TO	PURPOSE	
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Sec. 4		REC	CORD OF	MUDDING	AND CEN	MENTING	<u></u>		
DIAMETER OF	NUMBER OF	SACKE						Tana 25	1
HOLE IN INCHES	OF CEME		М	ETHODS U	SED	SPECIFIC OF M		TONS OF CLAY USED	
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Sec, 5		PI	LUGGIN	3 RECORD	OF OLD V	VELL			
Well is located in the						-		•	,
Range 37 East									
Street and Number						_	•		
Tons of clay used		Tons of	froughag	ge used		Type o	f roughag	ge	
				Was	plugging a	pproved by	Artesian .	Well Supervisor	·
Cement plugs were pla	ced as follow	s:							
No. 1 was placed at .									
No. 2 was placed at				feet Num	ber of sack	s of cement	used	SEF. 10.1250	
No. 3 was placed at				feet Num	her of each	e of samon			.
No. 4 was placed at .				feet Num	ber of sack	s of cemen	t used	hat a first of the safe in the	JOR
No. 5 was placed at .		· · · · · · · · · · · · · · · · · · ·		feet Num	ber of sack	s of cemen	t used	4.4. 7.4100	2
(OVER)									

c. 6	Mark LO	G OF WELL	
FROM (depth in feet)	TO (depth in feet)	THICKNESS IN FEET	CLASSIFICATION OF FORMATION
			
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t,	C. Fedet	do solemniv swear	that, to the best of my knowledge a
belief, the foregoing infor	rmation is a true and correc	t record of the well for w	ich report is hereby made, insofar as o
be determined from all a	vailable records.	off 1	/ // ^ 1/
SUBSCRIBED AND SX	VORN TO BEFORE ME this	Sugned fa	rber Dullingto
	//	52 By Q	0 4. P. A

I,	knowledge and
belief, the foregoing information is a true and correct record of the well for which report is hereby made	. insofar as can
be determined from all available records.	
SUBSCRIBED AND SWORN TO BEFORE ME this St. Signed Harber Lull	Tes.
	<i>X</i>
day of Sopt 2 A. D., 19 7 Position - P Leel	Le De
Jun W. Shearne	
Notary Public Street and Number	
My Commission Fapires Legal 26, 1913 Post Office	
My Commission Expires Sent 18, 77 3 Post Office	•
200 0200	



WELL RECORSTATE ENGINEER

Date of Receipt	Permit No. L = 237
Name of permittee, parker Dulling	- Co-
Street or P. O., 139 1053 City and St	ate Louis Gland Will,
1. Well location and description: The (shallow or artesian) Well is located	in NE 4
	Range 37 ; Elevation of top of
casing above sea level, feet; diameter of hole,	inches; total depth, / / feet;
depth to water upon completion,	mmenced Offi 2 1951
and completed Off 1977; name of drilling of	contractor believed
Address, Louisiflance	Minister's License No.
2. Principal Water-bearing Strata:	
Depth in Feet From To Thickness Descr	ription of Water-bearing Formation
No. 1 38 78 40 Sight	Svaller Sareda
NO. 2 78 108 80 Mand	Synthes 3 and
No. 3 / A / / B 9 9-11/2	le Sans
No. 4	Source
No. 5	!
	. :
3. Casing Record:	
Diameter Pounds Threads Depth of Cysing or Liner Feet of in inches per ft. per inch Top Bottom Casing	Type of Shoe From Te
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and the second	1
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	<u>:</u>
	i .
4. If above construction replaces old well to be abandoned, give loca	tion:
of Section, Township, Range	; name and address of plugging contractor,
	*
date of plugging, 19; describe ho	w well was plugged.
	En the Control of the control of the
	001 23 1952
- 11.	THE SUR VELL CUREVISOR 1.000 THE CONTROL OF THE COO
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LOW LOND THATE

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Depth From .	Te.	Thickness in feet	Description of Formation
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to get ye myte	30	24	Caliclie
30	38	8	Dry Sand
38	78	40	liket Walter Said
71	108	37	Hood watter Said
108	110	بح	Truck Sared
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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 well.

Instructions

This form shall be executed, preferably typewritten, in triplicate and filed with the State Engineer's Office at Roswell, New Mexico, within 10 days after drilling has been completed. Data on water-bearing strata and on all formations encountered should be as complete and accurate as possible.

APPLICATION FOR PERMIT

To Appropriate the Underground Waters of the State of New Mexico

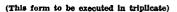
LEA	COUNTY UN	IDERGRO	DUND	BASIN	<u> </u>			
lication No. Les 1237	Book WICel	Date	Receiv	ed Oct	ober	11. 1	951.	
Name of applicant Parker D				002				
Postoffice address P.O. Box								
County of Lea		, State		New	Mex:	Lco		
	hallow	-						<u> </u>
Ton Coun	(state whether a				basin)			
	me of underground s	tream, valley	, artesia	n basin, etc			•	
The well is to be located in the		<u> 4</u>						
of section XX 15	_				nge	37	East ,	N.M.P.M
on land owned by unknow								
Description of well: driller C.								
diamenter (outside) of casing				hes; type	of pur	p and po	wer plant t	o be use
lylinder type pump w	rith butan	e engi	ne					
	· · · · · · · · · · · · · · · · · · ·					<u> </u>		
Quantity of water to be appropr	riated and benefi	cially use	d 25	U G.P.	depth o	Avera	per acre)	
for <u>Oil well drill</u>								purposes
Acreage to be irrigated	none							acre
located and described as follows	(describe only lar	ads to be i	rrigate	d):				
				Acres				
Subdivision	Sec. Tv	ур. Ra	nge	Irrigated			Owner	
None	<u>15</u> 15	<u>s</u> 37	E	0				
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		·····	·····					
	all and acreage to be			bown on ple	t on re	verse side.)		•
Time required to commence cons								
Time required to complete the wo	orks	6 mon	iths.					
Time required to fully apply water	r to beneficial use	e	1	. year				
Additional statements or explanat	_		-					
Well L-1207 does no	ot fur m ish	suffi	.cier		er f	or op	<u>eration</u>	}•
				1 10		English Comments	1	
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						7 (1 (1)		↓
					ut. Ni i	RELEG	PARTINON	1
				4 444	ACC 1977			
, A.C. Ledit for Pa	rker Drill	ing Co).	being fire	is . Bb/ t-duly	SWOLU II	pon my oa	h, depos
say that I have carefully read th	he foregoing state	ement and	each s	being fire	is . Bb/ t-duly	SWOLU II	pon my oa	th, depos , and the
I A.C. Ledit for Par say that I have carefully read the same are true to the best of my	he foregoing state	ement and	each s	being fire	is . Bb/ t-duly	SWOLU II	pon my oa ned therein	, and tha
say that I have carefully read th	he foregoing state	ement and	each a	being fire	is . Bb/ t-duly	SWOLU II	pon my oa ned therein	th, depos , and tha applican
say that I have carefully read th	he foregoing state knowledge and b	ement and seller. PARF	each a	being fire and all of the DRILLI	is . Bb/ t-duly	ms contain	pon my oa ned therein	, and tha

APPROVAL OF THE STATE ENGINEER

Number of this permit-	L	1237		Date rec	eived com	rected —			
Recorded in Book		Date received corrected Publication of notice ordered Name of paper							
Page									
Application received-				Affidavi			ed.		
Date returned for corre									
This application is								acre fee	
subject to all prior vali									
the applicant complies		-				_		-	
Well to be dril									
Biameter-of Wel									
at all times to	3 acre f	eet r	er annu	n for do	nestic	and of	l well	drilling	
purposes. Well									
				•					
Works shall be con	n hee batain	roofe fi	led on or he	fore O	ctober	16, 19	52.		
Water shall be app									
This is to certify the									
of the State of New M								_	•
Witness my hand		-		day of-	-		ober provisions	, A. D.	
witness my nand :	and sear this.			day or-		17	From	, A.D.	, 19
							istant		Ingirow
LOCATE WELL AND									
Section (s) 15		,	Township_	72 200	ıcn	Range	3/ Las	t	N.M.P.M.
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,	<u>L</u>	1_		L	i	<u> </u>			
•			INS	TRUCTION	rs				
This form shall b	e executed, p	referabl	ly typ ewriti	en, in tripli	cate and s	hall be a	ccompanie	d by a filing t	tee of \$5.00.
Each of triplicate cop					_				
A separate applicate Secs. 1-4—Fill out				or each well					
Sec. 5—Irrigation		-	• • •			per acre	to be appl	ied on the is	nd If for
domestic, municipal, o the irrigation of not n	r other purpo	ses, sta	te total qua	intity in acr	e feet to b	e used an	nually. Do	mestic use m	nay include
Sec. 6—Describe of jected" from the near near, easily located na	est governme	to be in	rrigated. If ey corners,	or describe	yed lands by metes	describ	e by lega ds and tie	l subdivision survey to so	n "as pro- me perma-
Sec. 7—Estimate				nmence and	to comple				
Sec. 8-If lands a	re irrigated f	rom an	y other sou	rce, explain	in this s	ection. G	live any o	ther data no	ecessary to

PROGRESSIVE PUBLISHING CO., MOUNTAINAIR, N. M

If additional space is necessary, use a separate sheet or sheets and attach securely hereto.





OCT 27 1952

PROOF OF COMPLETION OF WORKS NGINEER

UNDERGROUND WATERS

	Date of Receipt	Permit No. L - 1237
1.	Name of permittee Parker Drilling Company	- No
	P. O. address Box 1053, City and StateLo	
	Permit No. L- 1237 to Appropriate (appropriate, repair well, ch	ange location of well)
	in the Lea County Underground Basin (name of underground reservoir, artesian ba	
2.	Description of well: location,	
	Township.15 South, Range 37 East.; total depth, 110	feet; outside diameter of top casing
	(or hole, if uncased)inches; if artesian, is well equipped wi	th gate valve?; name
	and address of driller, C. O. Aldredge, Lovington, No.	ew Mexico ;
	Date drilled, Oct.	ober 11 19 52
3.	Record of Pumping Test (to be supplied by person or firm making test; I	Name and address of person making
	test, None Made	;
	date of test,; depth to water before	ore test,feet, and im-
	mediately afterward,feet; Lenth of test,hours; av	verage discharge,G.P.M.;
	Specific capacity of well,gal. per min. per ft. of draw	down,
4.	Description of pump: Make, Pearless	
	type, Turbine ; if turbine type, give size of column,	inches; diameter of
	bowls	ction pipe,Qfeet; total
	length of column, bowls and suction pipe,95feet; if centrifugal	type, give size of pump
	inches; if other type, describe,	
	The second secon	
	rated capacity of pump (if known) 250 G.P.M., at 1760 rev. pe	r min., from a depth of 80 feet
	Description of power plant: make, U. 2 Internationab	
	type,ind; rated horsepower (if available)	22 ; type of drive connection
	to pump,Shaft ; date of installation of power plant,	October 15 , 19 51
6.	Actual discharge of pump, ESt. 200 G.P.M., at 1760 rev. per m	in., from a depth of 80 feet;
	Date of testNone made; Name and address of	
	plant,Co. Unit	
		Siin 10 (832
/	·	ROTTON ALL BOTTON
/		' Assista Assis Assis OR

Permit acreage to be served by well,Nonea	cres to receive a total of some feet of water
Permit acreage to be served by well,XXXIII	cros, to receive a total or
allowed by permit.	
. The distribution system consists of overnight storage	reservoir, andfeet of main canal;
	(yes or no)
give approximate capacity of reservoir or tank (if any)cubic feet.
9. If above construction replaces an old well to be plugg	ed or abandoned, his out the following: the west abandoned
is located in the	, Township, Range;
want of Mindelland States	
Name or plugging contractor,	
Weil was plugged in accordance with terms of permit	, 19
D. Give date "Well Record" was filed with State Engineer:	office October 19 51
1. Pump and power plant were installed and works comp	oleted
er.	
	- 1237., being first duly sworn upon his cath, states
	and America de dear book of his longered days and bolish
· (m)	ac Edy
Subscribed and sworn to before me thisOLII	day of September 19.52
My commission expires9/26/53	Your W. Shearn
	Notary Public.
Affidavit of State Engi	neer's Representative
I hereby certify that I have duly inspected the above	Works and find them adequate and properly constructed
according to the terms and conditions of the permit. Note	any exceptions
U vy	
	0 11 1 2 2 2 1
	Weller Willen
not 33	Groundwater Supervisor or other representative of State Engineer.

. .

And the second s

WELL RECORD

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the nearest 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 ecord, only Section 1A and Section 5 need be completed.

ection 1				(A) O	- 0611	W-	۲. معدمت شربا	Commo	
							Alester Fuel O. Box 608		
	1	0							New Mexico
				-					nd is located in the
			- 1						S. Rge. 37E
	15							_	ense No
			- 1		_				
	!								New Mexico
]		-					19 49
			- 1	-				• •	1949
(F	lat of 640 a	acres)	•			• • • • • • • • • • • • • • • • • • • •			
Elevatio	n at top of	f casing in	ı feet	above sea	a level		Total dep	oth of well	120'
State wh	ether wel	l is shallo	zo wc	artesian	Shall	low	Depth to wa	ter upon comp	oletion 60'
Section 2	2			PRIN	CIPAL WA	TER-BEARI	NG STRATA		
Ī	Depth is	n Feet	Thi	ckness in				. D	42 -
No.	From	То	1	Feet		Des	cription of Water	-bearing Forma	tion
1						·			
2					 ,	·			<u> </u>
3			ļ						67 F
,									
4			<u> </u>						
5	}		<u> </u>		١				<u> </u>
Section	3				RECOR	D OF CAS	ING		
Dia	Pounds	Threa	ads	De	pth	704		Pe	rforations
in.	ft.	in		Top	Bottom	Feet	Type Shoe	From	ं के
						<u> </u>	<u> </u>		
C+ -4!				nrcon	D OF MU	SDING AN	ID CELIENTING		
Section							ID CEMENTING		
From	h in Feet	Diam Hole i		Tons Clay	No. Sa Cem			Methods Used	1
									
				 					
				 	_				
 -				 					
	'			<u> </u>	•				
Section	5				PLUGG	SING REC	ORD		. /
Name o	f Pluggin	g Contrac	ctor		_McAlest	er Fuel	Company	License	No. WD-7
							Lovington		
Tons of	Clay used	ì		Tons of F	Roughage (used	Т	pe of roughag	geDirt
Pluggin	g method	used]	0' 0	ement pl	ng at su	rface	Date Pl	ugged Febru	ary 25, 1950
	g approve			7	/			gs were placed	
	To	beit	# 7	17/			Depth of 1	Plug	
				Basin Su	pervisor	N). I——	To No	o. of Sacks Used
	FOR US	E OF STA	TE E	NGINEER C	DNLY	1	Surf.	10'	3
		1		0.4.4004	-\X				
Date	Received		HYK	24 1958	o Dy				
				OFFICE WATER SUP	20VISOB		1		
Ī		GKC		LL, NEW MEX	•			· · · · · · · · · · · · · · · · · · ·	
i		ر ہے			/	7	0.40		A ~ /
File N	o. L = !	106			IIse (onem.	VUI Jocati	on No 15.	37.15. 220

Depth	in Feet	Thickness	Color	Type of Material Encountered				
From	То	in Feet	COIOI	Type of Material Encountered				
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The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true	and	COT-
The undersigned hereby certifies that, to the best of his knowledge and benef, the foregoing is a finder	anu	COI
most mosand of the above described well		

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RECORD

File No. L-956

INSTRUCTIONS: This form should be typewritten, and filed in the office of the State Engineer, P.O. Box 1079, Santa Fe, New Mexico, or in the office of the Artesian Well Supervisor, Roswell, New Mexico. Section 5 should be in the office of the Artesian Well Supervisor, Roswell, New Mexico. Section 5 should be in the office of the Artesian well has been plugged. All other sections should be answered in full in every case, regardless of exhault will define the constant of the

JAN 7 1952

	, , , ,	<u> </u>	Owne	r of wel	1	McAleste	r Fuel	Co. S	TATE ENGIN	iteen
}}	+-+-		Street	and N	umber	Box 210		PY,		····
NW		N.E	Post	Office	······	Maginol:	la, Ark,			
			Well	was dril	led under F	Permit No	L-956	<u></u>	aı	ıd
			is loc	ated in	the	14 N	C 1/4	NE 14	of Section 15	••••
		S.F.	Town	ship	15 S	·····	, Range	37	7 12	
		S.E	Drilli	ng Cont	ractor	Bishop I	Orilling	co.		
			1	-						
	lat of 640 A					Lovingto		•		
Daillian was	te Well Acc	10-	-15-49		ia Dei	lling was on	mpleted	riowa co.	10-16-49, 19	
Elevation at t	op of casing	in feet abo	ve sea lev	7el						
brare Anemer	Men in one	now of arces	10411		*******************				***************************************	
	of well	<u> </u>							eet below land surface	ce.
Sec. 2	37	. 112				ARING STR . 75		mation	Water sand	
-									Filed Januar	
									Office Artes	
									Supervisor.	
Sec. 3				'REC	ORD OF C	ASING			New Mexico	
Diameter in Inches	Pounds per Foot	Threads per Inch		ne of facturer	Feet of Casing	Type of Shoe	Perfor From	ated To	Purpose	
l										-[
										- ' .
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								 		-
Sec. 4			RECOR	D OF M	UDDING	AND CEME	NTING			-
Diamet Hole in		Number of			Methods U	sed		c Gravity Mud	Tons of Clay Used	7
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Sec. 5			PLI	IGGING	RECORD	OF OLD W	FII			
	ted in the.							Tow	nship	
										• •
Street and I	Jumber			••••••	Po	st Office	**********	***************************************		
Tons of clay	used		Торв с	f roughs	ge used	*	Тур	e of rough	age	
<i>-</i>	***************************************		••••••		Wa	s plugging a	pproved by	/ Artesian	Well Supervisor?	
Cement plug	-									
							•		***************************************	

Mas pi	a.cu &L			•	Ieet, Nur	muer of sack	s or cemen	t used	***************************************	******

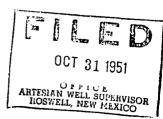
·	THICKNESS IN FEET	CLASSIFICATION OF FORMATION
4	4	Top soil
18	14	Caliche
		Sandstone
		Sand
		Sandstone
		water sand
		water same
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d Jones	do solemnly swear	that, to the best of my knowledge
ation is a two and correct -	scord of the well for which	manant la banaba mada ta d
	18 55 56 112 level 37!	18 14 55 37 56 1 112 56 1 1 12 56 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

De geestimined from an Everiable lecotor.	
SUBSCRIBED AND SWORN TO BEFORE ME this	Signed Rolland Jones
9th January 50	PositionDriller
Francis B. Moostes Notary Public	Street and Number Box 22
My Commission Expires March 11, 1950	Post Office Lovington, N. M.

This form to be executed in triplicate.

PROOF OF COMPLETION OF WORKS UNDERGROUND WATERS

	Permit No	- TOEGE!	(1)
State ofNew_Mexico	,	May 10	10E1
County of Lea	ss.	NOV 13	1501
	-) -2 Co	STATE ENG	SINEER
, Guy Boyd for McAlester Fue	1 00.	ry	
Lovington			
State ofNew Mexico			
owner and holder of a permit toAppr	opriate v	water	in the
Lea County Underground	Basin	, the wat	ers from such source
to be used forAgricultural and dome	stic	••	purposes
under said permit; that said application has been filed ar	nd approved in	the office of the State	Engineer under No.
L-956		; that the works nec	essary to accomplish
the appropriation of water in accordance with the terms conditions under which said permit was approved by the following statement of facts is submitted in proof of the each and all of the items contained therein are true to the	he State Engin completion of	eer have been fully com said works; and that the	plied with; that the
	McAL	ESTER FUEL CO.	
	4	my Boy	ve e
Subscribed and sworn to before me this27th.	John	October	, 195 1
My commission expires:	\mathcal{O}		Notary Public.
Sept. 26, 1953			
STA?	TEMENT		
1. Name of appropriator MCALESTER FUE	L CO.	1	
2. Postoffice address Lovington, New	w Nexico	***************************************	**************************************
3. Underground water supply "Lea. CountyUnd	derground	Basin	
4. The well is located in the	quarter of t	he	quarter
of theQuarter of Se	etion1	5 Township	15 South
Range 37 East N.M.P.M.,		Trad	



5.	Nominal size (outside diameter) of casing or liner 6, inch^hole inches.
	Depth of well 125 feet. 7. Approximate pumping depth 160 feet.
	Description of pump: make Smithway : type turbine ::
	suction lift none feet; size and length of column 4 inch 70 feet;
	size and number of bowls 4 inch 6 stage 18 ; total length 75 feet.
9.	Make, type, horsepower, etc., of power plant /D-3400 Caterpillar diesel
	Capacity of well
1 2 .	Name of driller Bishop Drilling Co:
13.	Has log of this well been filed with State Engineer or his representative? unknown
14.	The distribution work consist of reservoirs feet of ditch,
•••••	feet of flume
15.	Size of reservoir feet wide, feet long, feet average
	depth,
16.	Lands to be irrigated
ļ	NOTE: This well has been plugged and abandoned.
	Note: 110 well has been plugged and abandoned.
·····	`
17.	If there are other sources of water supply for these lands, describe giving file Nos., etc
	,
	
18.	Works were completed Cotober, 1951 later plugged and abandoned 19
19.	. If above construction replaces an old well to be plugged or abandoned, fill out following:
	a. The well abandoned is located in the
	of Section, Range
	b. Name of plugging contractor
l	c. Well was plugged in accordance with terms of permit
ı •	I hereby certify that I have duly inspected the above works and find them adequate and properly constructed
ac	cording to the terms and conditions of this permit.
	Ground Water Supervisor (or representative of State Engineer)
	Date

APPLICATION FOR PERMIT

To Appropriate the Undergr	ound Wa	ters of ti	re State of	Vew Mexico		
LEA COUNTY UNDE	RGROUND	BASIN	11		1)[]	:
Application No. 12956 Book LC-3	Dat	e Receiv	ed Octobe	r 27. 1949	1 27 1	
L. Name of applicant McAlister Fuel	and 0	di Co	•	UNI Z i B	31113 	,
Postoffice address % Guy Boyd, Lo				Cities :		,
County of Lea	, Sta	te of	New Me	XICO TE, IL.	.A	 ,
2. Source of water supply Shallow gro	und_wa	ter b	asin			·
Too Country II.		-	round water ba	sin)		
located in Lea Country UT	d stream, va	illey, artesia	an basin, etc.)			,
3. The well is to be located in theX	<u>%.</u> _	N	E	_4,	NE	14,
of section 15 , Township.	_15_Sc	uth_	, Range	37 Ea	st, ,	N.M.P.M.
on land owned by J. S. Waller						
4. Description of well: driller Bishop Drill	ing Co		_; depth to l	e drilled	120	feet;
diamenter (outside) of casing 8 inch h	ole	inc	hes; type of	pump and pow	ver plant to	be used
4 inch turbine diesel engi						
5. Quantity of water to be appropriated, and be	neficially	used				
			(leet de	oth or acre feet 1		
for <u>Commercial use on dril</u>	.ling r	ig			 :	purposes.
6. Acreage to be irrigated <u>none</u>						acres
located and described as follows (describe only	lands to b	e irrigate	ed):			
Subdivision Sec.	Two.	Panea	Acres		Owner	
Subdivision Sec.	TWP.	Range	Irrigated		Owner	
				- Vi. Semi jil		
				* * * * * * * * * * * * * * * * * * * *		
				1/3		
		· `				
			(1 4. K.I.L. St.	1 3 5 V 3 - 5/1		
		- 	CATALLE STATE AND THE	il Clark		
		- 14 - 144 - 17				
(Note: location of well and acreage	to be irrigate	d must be	shown on plat	n reverse side.)		
7. Time required to commence construction	At once					:
Time required to complete the works.	L week					i
Time required to fully apply water to beneficial	use					
8. Additional statements or explanations (including				ts appurtenant	to above l	ands)
This well is to gurnish wat		•				
oil well rig.	701 101	. 4111	TING OF	er a or ons	<u> </u>	
- Modlidator Fuel 1 Odl O						
I, McAlister Fuel and Oil C and say that I have carefully read the foregoing a				duly sworn up e items contair		
the same are true to the best of my knowledge an		and tues.		Tream contain	ica discress,	, and thus
	McA	liste	r_Fuel	and Oil (Do	annlleer!
	by. A	T. CP	100	and I	,	whhucauc
- To	by ⊊_v 'th₄	• • • • •	Cata	hon		40 J.O.
Subscribed and sworn to before me this	viia (_day of	///	11	, A. D.	, 19 .47 .
My Commission expires Sept. 26, 1953		you	nw.	yrear	Notary	Public.

APPROVAL OF THE STATE ENGINEER

Application received October 27, 1949 Affidavit of publication filed Date returned for correction	Number of this permit-	I <u>–956</u>		Date received c	orrected					
Application received October 27, 1949 Africavit of publication filed Date returned for correction Date of approval November 3, 1949 This application is approved for all drilling operations acre feet of water subject to all prior valid and existing rights to the use of the waters of said underground source and provided that the applicant complies with all rules and regulations of the State Engineer pertaining to the drilling of wells— Well to be drilled by drilling contractor licensed in the State of New Maxico. Works shall be completed and proofs filed on or before Works shall be completed and proofs filed on or before This is to certify that I have examined the above application for permit to appropriate the underground waters of the State of New Mexico and hereby approve the same subject to the foregoing provisions and conditions. Witness my hand and seal this 3rd day of November A. D., 19-49 Assistant Biats Engineer LOCATE WELL AND ACREAGE TO BE IRRIGATED AS ACCURATELY AS POSSIBLE ON FOLLOWING PLAT. Section (s) Range NMM.P.M	Recorded in Book-									
Date of approval November 3, 1949 This application is approved foroil drilling_operations		956								
This application is approved foroil_drilling_operations	Application received —	October 27,								
works shall be completed and proofs filed on or before Works shall be completed and proofs filed on or before This is to certify that I have examined the same subject to the foregoing provisions and conditions. Witness my hand and seal this 3rd day of November A. D., 19-49 Assistant A. D., 19-49 Range NMP.M. November A. D., 19-M. November A. D., 19-M. November A. D., 19-M. November A. D., 19-M. November A. D., 19-M. November A. D., 19-M. November A. D., 19-M. November A. D., 19-M. November A. D., 19-M. November A. D., 19-M. November A. D., 19-M. November A. D., 19-M. Range NMP.M.	Date returned for corre	ction		Date of approve						
works shall be completed and proofs filed on or before Works shall be completed and proofs filed on or before This is to certify that I have examined the same subject to the foregoing provisions and conditions. Witness my hand and seal this 3rd day of November A. D., 19-49 Assistant A. D., 19-49 Range NMP.M. November A. D., 19-M. November A. D., 19-M. November A. D., 19-M. November A. D., 19-M. November A. D., 19-M. November A. D., 19-M. November A. D., 19-M. November A. D., 19-M. November A. D., 19-M. November A. D., 19-M. November A. D., 19-M. November A. D., 19-M. Range NMP.M.	This application is	approved forO	il drilling	operations.		acre feet of water				
Works shall be completed and proofs filed on or before Water shall be applied to beneficial use and proofs filed on or before This is to certify that I have examined the above application for permit to appropriate the underground waters of the State of New Mexico and hereby approve the same subject to the foregoing provisions and conditions. Witness my hand and seal this 3rd day of NOVEMBER A. D., 19-49 ASSISTANT State Engineer LOCATE WELL AND ACREAGE TO BE IRRIGATED AS ACCURATELY AS POSSIBLE ON FOLLOWING PLATS Section (8) Township Range N.M.P.M	subject to all prior valid	d and existing rigi	nts to the use of	the waters of s						
Works shall be completed and proofs filed on or before										
Water shall be applied to beneficial use and proofs filed on or before This is to certify that I have examined the above application for permit to appropriate the underground waters of the State of New Mexico and hereby approve the same subject to the foregoing provisions and conditions. Witness my hand and seal this 3rd day of Novamber Assistant State Engineer LOCATE WELL AND ACREAGE TO BE IRRIGATED AS ACCURATELY AS POSSIBLE ON FOLLOWING PLATE. Section (s) Range N.M.P.M.	Well to be plug	ged at compl	etion of oi	drilling_o	perations.					
Water shall be applied to beneficial use and proofs filed on or before This is to certify that I have examined the above application for permit to appropriate the underground waters of the State of New Mexico and hereby approve the same subject to the foregoing provisions and conditions. Witness my hand and seal this 3rd day of Novamber Assistant State Engineer LOCATE WELL AND ACREAGE TO BE IRRIGATED AS ACCURATELY AS POSSIBLE ON FOLLOWING PLATE. Section (s) Range N.M.P.M.										
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Water shall be applied to beneficial use and proofs filed on or before This is to certify that I have examined the above application for permit to appropriate the underground waters of the State of New Mexico and hereby approve the same subject to the foregoing provisions and conditions. Witness my hand and seal this 3rd day of Novamber Assistant State Engineer LOCATE WELL AND ACREAGE TO BE IRRIGATED AS ACCURATELY AS POSSIBLE ON FOLLOWING PLATE. Section (s) Range N.M.P.M.						····				
This is to certify that I have examined the above application for permit to appropriate the underground waters of the State of New Mexico and hereby approve the same subject to the foregoing provisions and conditions. Witness my hand and seal this						La				
of the State of New Mexico and hereby approve the same subject to the foregoing provisions and conditions. Witness my hand and seal this 3rd	Water shall be app	lied to beneficial	use and proofs fi	led on or before						
Witness my hand and seal this 3rd day of November , A. D., 19-49- Assistant Seaton Siate Engineer LOCATE WELL AND ACREAGE TO BE IRRIGATED AS ACCURATELY AS POSSIBLE ON FOLLOWING PLATS Section (8) Range , N.M.P.M.	This is to certify the	hat I have examin	ed the above app	lication for perr	nit to appropriate	the underground waters				
LOCATE WELL AND ACREAGE TO BE IRRIGATED AS ACCURATELY AS POSSIBLE ON FOLLOWING PLATS Section (s) Range N.M.P.M		•		me subject to the						
Assistant State Engineer LOCATE WELL AND ACREAGE TO BE IRRIGATED AS ACCURATELY AS POSSIBLE ON FOLLOWING PLAT: Section (s) Range N.M.P.M	Witness my hand	and seal this	3rd	-day of	,	, A.D., 19 <u>-49</u>				
LOCATE WELL AND ACREAGE TO BE IRRIGATED AS ACCURATELY AS POSSIBLE ON FOLLOWING PLAT. Section (s), Township, Range, N.M.P.M.			٠.	-4/10		State Engineer				
	LOCATE WELL AND	ACREAGE TO B	E IRRIGATED A	S ACCURATEL						
NETPYCETONS.	Section (s)		_, Township		Range	, N.M.P.M				
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This form shall be executed, preferably typewritten, in triplicate and shall be accompanied by a filing fee of \$5.00. Each of triplicate copies must be properly signed and attested.

A separate application for permit must be filed for each well used.

Secs. 1-4-Fill out all blanks fully and accurately.

Sec. 5-Irrigation use shall be stated in feet depth or acre feet of water per acre to be applied on the land. If for domestic, municipal, or other purposes, state total quantity in acre feet to be used annually. Domestic use may include the irrigation of not more than one acre of lawn and garden for noncommercial use.

Sec. 6-Describe only the lands to be irrigated. If on unsurveyed lands describe by legal subdivision "as projected" from the nearest government survey corners, or describe by metes and bounds and tie survey to some permanent, easily located natural object.

Sec. 7-Estimate time reasonably required to commence and to complete project.

Sec. 8-If lands are irrigated from any other source, explain in this section. Give any other data necessary to fully describe water right sought.

If additional space is necessary, use a separate sheet or sheets and attach securely hereto.

Date Received

· San	ita	GL WEL	L RECORD		
nearest district accurately as	office o	of the State Engineer, All sec	ctions, except Section 5, shall epaired or deepened. When t	ritten, and isubmitted to the be answered as completely and this form is used as a plugging.	i v <u>i</u>
Section 1		(A) Owner of well	McAlester Fuel	Company	7
		Street and Number	P. O. Box 608		
		City	Lovington,	State New Mexico	
	0	1	nder Permit NoL=10	and is located in the	

			(A) Owner of well	WCHTER FET LOST 7	Company	
	-		Street and Number	P. O. Box 608		
		Ì	City	Lovington,	StateN	www Mexico
		0	Well was drilled under Po	ermit NoL=1045	5and	is located in th
		1	NWY4SWY4NE_		Twp15S	Rge. 37E
	 3 ' +		(B) Drilling Contractor	Bishop Drilling Co	Licen:	se No
'			Street and Number			
	<u>-</u> -		City	Lovington	StateN	ew Mexico
i	1		Drilling was commenced.	October 14,		1950
·	<u> </u>		Drilling was completed	October 15,		1950
(F	Plat of 640	acres)				
Elevation	n at top	of casing in fe	et above sea level	Total depth	of welll	201
	_		or artesian Shallow			
Section 2	2		PRINCIPAL WATER-BI	EARING STRATA		

Section	2		PRINCIPAL WATER-BEARING STRATA						
No.	No. Depth in Feet From To		Thickness in Feet	Description of Water-Bearing Formation					
1									
2									
3									
4									
5	1								

Section 3	3			RECOR	D OF CAS	SING		
Dia Po	Pounds	Threads	Depth		Feet	Type Shoe	Perfor	ations
in.	ft.	in	Top	Bottom	reet	Type Shoe	From	То

Section 4			RECORD	OF MUDDING AND CEN	MENTING			
Depth in Feet		Diameter	Tons No.	No. Sacks of	Methods Used			
From	То	Hole in in.	Clay	Cement	Methods Used			
			· · · · · · · · · · · · · · · · · · ·					

Section 5 PLUGGING	RECORD	
Name of Plugging Contractor McAlester Fuel	Compan y	License No. WD9
Street and Number P. O. Box 608 Ci	yLovington	State New Mexico
Tons of Clay used	Туре	of roughage <u>Dirt</u>
lugging method used 10' cement plug at surface	eDate Plugg	ged March 13, 1951
Plugging approved by:	Cement Plugs	were placed as follows:
- smul thought	No. Depth of Plu	No. of Sacks Used
Basin Supervisor	From To	IVO. Of Sacks Used
FOR USE OF STATE ENGINEER ONLY	1 Surface 10'	3

OFFICE GROUND WATER SUF ROSWELL, NEW ME			
File No. <u> </u>	Use 0 シぃ. P.	Location	No. 15.37.14.

Depth in Feet		Thickness	Color	Type of Material Encountered			
From	То	in Feet	COLOI	Type of married impositioned			

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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 well.

WELL RECORD

File	No

INSTRUCTIONS: This form should be typewritten, and filed in the office of the State Engineer, P. O. Box 1079, Santa Fe, New Mexico, or in the office of the Artesian Well Supervisor, Roswell, New Mexico. Section 5 should be answered only if an old artesian well has been plugged. All other sections should be answered in full in every case, regardless of whether the well drilled is shallow or artesian in character. This report must be subscribed and sworn to before a Notary Public.

	1 1 !		Owner of we	n Guy Bo	yd for	Mc Ale	ster F	Wel Co.
 } -			Street and N	umberP	O. Box	608		***************************************
NW-		NE	Post Office	Loving	tonN	. И.		
1)	-		,, ·		and
	+++		3					of Section 14
			1		-	-		
\-SW		S.E	1 .					
			Drilling Cont	ractor.B1	hopDr:	llling.		
السنا	نسلسنا	<u> </u>	Street and N	lumber	Box 22			
Loca	at of 640 A te Well Acc	curately						
								, 1950
Elevation at t	op of casing	g in feet abo	ve sea level	Shell				***************************************
								eet below land surface.
Sec. 2			PRINCIPAL				_	
	63	to	.00 Thick	cness in fee	37	For	nation	Sanđ
No. 2, from		to	, Thick	cness in fee	t	, For	nation	
No. 8, from		tg	, Thick	kness in fee	Ł	, For	nation	
No. 4, from		to	Thicl	kness in fee	L	For	nation	
No. 5, from		to	, Thiel	kness in fee	t	For	nation	
Sec. 3			REC	ORD OF C	CASING			
Diameter in Inches	Pounds per Foot	Threads per Inch	Name of Manufacturer	Feet of Casing	Type of Shoe	Perfor From	ated To	Purpose
		 		 	 			
				 	 			——————————————————————————————————————
		 				<u> </u>		
				 	 		1	
Sec. 4	П	NE CE	RECORD OF A	AUDDING .	AND CEME	NTING	-l	· · · · · · · · · · · · · · · · · · ·
Diamet	er of	Number of	Sacks				Gravity	Tons of
Hole in	Inches	of Ceme	ant PUI	Methods U	8ed	of	Mud	Clay Used
		APR 1	9 195				हास्य ह	A 2 - 1 - 1
1	ST							Las Barro Barro
			AGINEER					2 4 5 /0"
		•••••••					//	F V III VIII
Sec. 5					OF OLD W	ELL		DERICA POPLE SUPERVISOR
Well is local	ted in the.		¥	4 of	Section		Tall's	iship MEW MANICO
Range		Name of	plugging contract	tor	·······	· ·		
Tons of clay	used		Tons of roughs	age used		Тур	e of rough	age
······································	·····		······································	We	s plugging a	approved by	Artesian	Well Supervisor?
Cement plug	-							•
No. 5 was pla	aced at			over)	mber of sack	s of cemen	t used	***************************************

. 6	LOG OF WELL						
FROM (Depth in Feet)	TO (Depth in Feet)	THICKNESS IN FEET	CLASSIFICATION OF FORMATION				
0	6	6	Top So41				
6	18	18	Caliche				
18	63	45	Sandstone				
63	100	37	Sand				
Water Level		·					
		<u> </u>					
	 						
		 					
	 	 					
	 						
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	<u> </u>		<u> </u>				
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	1
I Rolland Jones	, do solemnly swear that, to the best of my knowledge and
belief, the foregoing information is a true and correct record	of the well for which report is hereby made, insofar as can
be determined from all available records.	$Q \sim Q$
SUBSCRIBED AND SWORN TO BEFORE ME this	Signed Talland Inc
1/19 day of april, AD 1057	Position Driller
Francis B. Macates	for Bishop Dirg. Co.
Notary Public	Street and Number Box 22

My Commission Expires March 11, 1954
My Commission Expires.....

Post Office Lovington, N.M.

APPLICATION FOR PERMIT

To Appropriate the Underground Waters of the State of New Mexico

	LEA COUNTY UNDERGROUND BASIN
App	lication No. V-1045 Book Ical Date Received tober 24, 1950
1.	Name of applicant Guy Boyd for McAlester Fuel Co.
	Postoffice address Lovington, New Mexico
	County of Lea , State of New Mexico ,
2.	Source of water supply. Lea County Underground Basing (state whether artesian or shallow ground water basin)
	located in Lea County Underground Basin
_	(name of underground stream, valley, artesian basin, etc.) The well is to be located in the NWA 4 SWA 14 NEA 4.
3.	The well is to be located in the NW ¹ / ₄ , SW ¹ / ₄ , NE ¹ / ₄ , of section 14 Township 15 South Range 37 East NM.P.M.
	on land owned by Surface: Pat H. McClure
,	Description of well: drilleBishop Drilling Co. ; depth to be drilled 100! M or Lifest;
T.	diamenter (outside) of casing 6-7 uncased hole inches; type of pump and power plant to be used
	Pump suitable for use in oil well drilling operations
5.	Quantity of water to be appropriated and beneficially used commercial use
	for oil well drilling operations purposes.
6.	Acreage to be irrigated
••	located and described as follows (describe only lands to be irrigated):
	Acres
	Subdivision Sec. Twp. Range Irrigated Owner
y .	THE RESERVE OF THE PARTY OF THE
2	00T 24 iS50
ř	OFFICE STATE ENGINEER CONTROL
	BANTA FE, N. M.
	ARTRIAN WELL SUSSINGEOR
	(Note: location of well and acreage to be irrigated must be shown on plat on reverse side.)
_	
7.	Time required to commence construction at once; Time required to complete the works 3 months;
	Time required to fully apply water to beneficial use.
8.	Additional statements or explanations (including data on any other water rights appurtenant to above lands)
-	This well will furnish water to be used for Oil well drilling
	operations on Pat H. McClure A-1. Time required for use unknown.
:	
	I, Guy Boyd for McAlester Fuel Co. , being first duly sworn upon my oath, depose
	d say that I have carefully read the foregoing statement and each and all of the items contained therein and that is same are true to the best of my knowledge and belief.
	Ly My Boyl
	applicant applicant
gu	bscribed and sworn to before me this 14th. day of October A D 19 50
	Online Ofer
M	Commission expires Sept. 26, 1953 Notary Public.

APPROVAL OF THE STATE ENGINEER

Recorded in Book LC-h				Date received corrected - Publication of notice ordered Name of paper					
Application received October 2h, 1950					Affidavit (of public	ation file	ed b	
Date returned for correction This application is approved for					Date of a	pproval_	Octo	ber 30	_1950。
					<u> </u>			· · · · · · · · · · · · · · · · · · ·	acre feet of water
subject to all prior valid	and exi	sting righ	its to the	use of t	he waters	of said	undergr	ound sou	rce and provided that
Approved for plugged upon	tempo	orery v	ise for	c oil	drillin	g oper	ations		Well to be
•									
				:			: .:		
Works shall be com	pleted ar	nd proofs	filed on	or before		April	30, 19	514_	
Water shall be appl	ied to b	eneficial u	ise and I	proofs file	ed on or b	efore	Octobe	ar_30,	1952.
This is to certify th	at I hav	e examine	ed the at	ove appl	ication for	r permit	to appr	opriáte th	e underground waters
of the State of New M	exico an	d hereby		_	ne subject	to the fo			
Witness my hand a	nd seal	this	30t	<u>n</u> .	day of	P	173	otober	, A. D., 19_50
						(A)	Assi	tant	State Engineer
LOCATE WELL AND	ACREAC								
Section (s) 14			_, Towns	hip 1	5 Sout	h 1	Range	37 Eas	t, N.M.P.M.
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Each of triplicate copies must be properly signed and attested.

A separate application for permit must be filed for each well used.

Secs, 1-4-Fill out all blanks fully and accurately.

Sec. 5-Irrigation use shall be stated in feet depth or acre feet of water per acre to be applied on the land. If for domestic, municipal, or other purposes, state total quantity in acre feet to be used annually. Domestic use may include the irrigation of not more than one acre of lawn and garden for noncommercial use.

Sec. 6—Describe only the lands to be irrigated. If on unsurveyed lands describe by legal subdivision "as projected" from the nearest government survey corners, or describe by metes and bounds and tie survey to some permanent, easily located natural object.

Sec. 7—Estimate time reasonably required to commence and to complete project.

Sec. 8-If lands are irrigated from any other source, explain in this section. Give any other data necessary to fully describe water right sought.

If additional space is necessary, use a separate sheet or sheets and attach securely hereto.

SOUTHWESTERN PUBLISHING CO., SANTA FE, N. M.

6, U.J

PROOF OF COMPLETION OF WORKS UNDERGROUND WATERS

•	Permit No. 1-1045	
State of New Mexico		
County of Lea	, 55.	
I Guy Boyd for Mc Alester	Fuel Co.	\
of Lovington	County of Lea	
State of New Mexico	, being first duly sworn, do her	eby certify that I am the owner
and holder of a permit to appropriate (appropri	Water	in the
Lea County Shallow Ground Wat-		
to be used for Oll Well Drilling	Operations	purposes
under said permit; that said application has been	filed and approved in the office	of the State Engineer under
No. L-1045 (Book LC-4)	; that the	works necessary to accomplish
the appropriation of water in accordance with the te		•
conditions under which said permit was approved be lowing statement of facts is submitted in proof of the		
and all of the items contained therein are true to th	<i>(1)</i>	
	Jamy)	Boys
		0
Subscribed and sworn to before me this 13	day of april	19.57
	Transist.	3. Macateo
My communication as production		Hara to the state was
We Compilation Expirat Words (12)		
APR 19 1951		Anna de inita
INTER	STATEMENT	APR 16 1981
1. Name of appropriator Guy Boyd for M		ARTEMAN WELL SUPERVISION ROSWELL SEW DESIGN
		_
2. Postoffice address P. O. Box 608;	Lovington, New Mexi	.CO
3. Underground water supply. Lea County	Shallow Ground Water	Basin
4. The well is located in the	quarter of the SW	quarter
of thequarter of		
Range 37 E NMT	_	



pin or wen	44 - 4	ite pumping depth87	faat	
escription of pump: makePeer			:	
ction lift5feet			;	
ze and number of bowls #6				
ake, type, horsepower, etc., of power p	Diesel Diesel	241/89		
······································		.500mb, as	······································	
Pump spacity of XX 180 gals				:
ame of driller Bishop Dri	-			;
as log of this well been filed with Stat				ļ
			• •	!
he distribution work consists of	reservoirs		feet of ditch,	:
	•		feet of pipe.	
ze of reservoir 500 bbl. Tank.	t wide,	feet long,	feet average	; (
epth, cubic feet cap	pacity, located in the	4	······································	,
		, Range		
ands to be irrigated	acres located in	(_	
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I there are other sources of water supp	ply for these lands, describe g	iving file Nos., etc		
there are other sources of water sup	ply for these lands, describe g	iving file Nos., etc	·	
there are other sources of water supplied the supplied to the	ply for these lands, describe g	iving file Nos., etc		
Vorks were completed	ply for these lands, describe g	riving file Nos., etc	is 50	
Vorks were completed	ply for these lands, describe g	ned, fill out following:		
Vorks were completed	well to be plugged or abandor the	ned, fill out following:		
Vorks were completed	well to be plugged or abandor the	ned, fill out following:		
Vorks were completed	well to be plugged or abandon the	ned, fill out following:		
Vorks were completed	well to be plugged or abandor the	ned, fill out following:		
f there are other sources of water support of the well abandoned is located in the of Section	well to be plugged or abandor the	ned, fill out following:		
f there are other sources of water support of the sources of the sources of the source of the sources of the sources of the sources of the sources of the sources of the source of the sources of the source	well to be plugged or abandon the	ned, fill out following:	i9.50	

1.

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(This form to be executed in triplicate)

WELL RECORD

ate of Re	ceipt		~		Permit No.	L-1110
	.o.,Box				Hobbs,N. M.	•
					n NW 4,	
Well lo	cation and de	escription: The	(shallow or artesian)		n14,	<u>N</u>
<u>N</u>]	E 14 of	Section	14 Townshi	15 S	Range 37 B	; Elevation of top o
casing	above sea lev	/el,		7"	inches; total depth	115feet
			Ş.	12 (f	aced	:
and con	mpleted		; nar	ne of drilling cont	ractor	>
***************************************		; A	ddress,		; Driller's Licen	se No
Princip	oal Water-bear	ring Strata:			_	
	Depth i	in Feet To	Thickness	Descri <u>r</u>	ption of Water-bearing For	nstion
No. 1	66	115	50		er Sand	
No. 2					vana	
No. 3						
No. 4					····	
No. 5						
			***************************************	······································	***************************************	
	***************************************			······································		
******			***************************************			
4. If abo	ve construction	n replaces old	well to be abandone	d, give location:		14,
of Sec	tion	, Townshi	p, Ranı	ge;	name and address of	plugging contracto
Gulf	Oil Corp	oration, F	Rox 2167 Hobbs	. New Mexico)	,
	······································			***************************************		
date o	of plugging	July 23		; describe how w	ell was plugged: Pul	Lled 7"
			heavy mud with			
<u></u>		STAT	E ERGINELR-Senta Fo,	11 11 1		
		- IR	EGELVE			
		Inn	200 811:53	W		
		7.8.9	1011121121314	PM		
		11717	·	[9]6]		

 $0.0555 \pm$

Log of Well:

Depth in feet From To		Thickness	Description of Formation					
0	30	[
31	60	30 30	Caliche & red bed					
	- 60 - 6	30	Water sand					
61 ُ نائی ج	65	5	time Stringers					
65	115	50	Water Sand					
	 = 							
		<u> </u>						
								
	<u> </u>							
		Tata 1913	96 M. 36					
		 						
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The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and cor-

ect record of the above described well.

R. G. McPheron, Asst.Area Production Supt.

Instructions

This form shall be executed, preferably typewritten, in triplicate and filed with the State Engineer's Office at Roswell, New Mexico, within 10 days after drilling has been completed. Data on water-bearing strata and on all formaions encountered should be as complete and accurate as possible.

PROOF OF COMPLETION OF RWORKS INEER

UNDERGROUND WATERS

Date of Receipt April 20, 1951	Permit No. L-1110
1. Name of permittee Gulf Cil Corporation	
P. O. address	State Fort Worth, Texas
Permit No. I-1110 to appropriate water	er
reference to the control of the cont	repair well, change location of well)
in the Lea County Basin (name of underground reservo	oir, artesian basin, etc.)
2. Description of well: location,	
Township	115feet; outside diameter of top casing
(or hole, if uncased)7" inches; if artesian, is well	equipped with gate valve?; name
and address of driller, J. H. Flippe - address unk	nown;
Date drilled, October, 1919	, 19
3. Record of Pumping Test (to be supplied by person or firm me	aking test; Name and address of person making
test,250 bbls per hour	;
date of test, Octs 14, 1949 , 19 ; depth to	o water before test,
mediately afterward,Unknownfeet; Lenth of test,l	hours; average discharge, 172G.P.M.;
Specific capacity of well, <u>Unknown</u> gal. per min. per	ft. of drawdown.
4. Description of pump: Make, his Peerless Turbine	
type,Turbine; if turbine type, give size of	of column,inches; diameter of
bowls 6" inches; number of bowls 4	length of suction pipe,feet; total
length of column, bowls and suction pipe,	centrifugal type, give size of pump
inches; if other type, describe,	
	n. 100
	JUN ชี 1852
rated capacity of pump (if known)	rev. per min., from a depth of feet AHIESIAN WELL SUPERVISOR ROSWELL, NEW MEXICO
5. Description of power plant: make, International	WONNETT NEW MEXICO
type,; rated horsepower (if	
to pump,belt; date of installation of p	ower plant, March 19 51
6. Actual discharge of pump,	rev. per min., from a depth of 90 feet;
Date of test 5 22 22 10 10 Name as	nd address of dealer supplying pump and power
plant, Smith Machinery Co., Inc., Lovington,	New Mexico
MAY 2 1952	MAR 10 1952
ARTESIAN WELL SUPERVISOR ROSWELL, NEW MEXICO	ALTERICS ALTERIST WILL SUPERIVESOR TORNELL, NEW MERICO

	12,500' oil well	
7.	Permit acreage to be served by well, /to drill acres, to receive a total of 15,0	00 bblore feet of water
	r − content of p	A Company of the Comp
	allowed by permit.	t
	Von No	
8.	The distribution system consists of overnight storage reservoir. Yes., and	Defeet of main canal;
		·
	give approximate capacity of reservoir or tank (if any)500.bblcubic	feet.
		- ,
9.	If above construction replaces an old well to be plugged or abandoned, fill out the follower.	owing: the well abandoned
	is located in the	ship;
	Name of plugging contractor,	······································
	TVI-11 man alternated to according to the state of the st	10
	Well was plugged in accordance with terms of permit Formation Data: 0 - 30' Calich	e & Red Bed
10.	Give date "Well Record" was filed with State Engineers Office 30- 60! Water	Sand 19
	Give date "Well Record" was filed with State Engineer's Office, $30-60$! Water $60-65$! Lime S $65-115$! Water	tringers
11.	Pump and power plant were installed and works completed	951 19
	Application submitted Dec. 12, 1951 to use water at another	location.
	The undersigned, owner and holder of Permit No	orn upon his oath, states
tho	at he has read the foregoing statements and that the same are true to the best of his k	nowledge and heliaf
tila	at he has read the foregoing statements and that the same are true to the best of his ar	nowledge and belief.
	GULF OIL CORPORA	ATION
	02	·/
	BY: Char La	468 V
	Area Superinteng	žent
	Subscribed and sworn to before me this 29th day of February	
		1
Му	y commission expires 7-20-54 Cours Till	blic all
		,
•	Affidavit of State Engineer's Representative	
	I haveby contifu that I have duly improsted the above Works and find them advanta	and manufacture and the state of
	I hereby certify that I have duly inspected the above Works and find them adequate	and properly constructed
acc	cording to the terms and conditions of the permit. Note any exceptions. This well	l was not plugged
		,
	because Gulf has made application to use the	well on another oil
	well location in the same area.	•
	"OZZ ZOGGOWINE III OHO BOMO GI 60"	
	Sotan I	m ho lo
	Groundwater Supervisor or other rep	presentative of State Engineer.
Det	ato, March 25 1852	-
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To Change Place OF USO - STATE ENGINEER

	To Appropriate the Underground Waters of the State of New Mexico
	LEA COUNTY UNDERGROUND EASIN
An	plication No. 1-1//O Book IC-11- Date Received January 7, 1952.
1,	Name of applicant Gulf Oil Corporation
	Postoffice address Box 1290, Fort Worth 1, Texas
	County of Tarrant State of Texas
2.	Source of water supply Shallow ground water basin
	(state whether artesian or shallow ground water basin)
3.	(name of underground stream, valley, artesian basin, etc.)
٠.	of section
	on land owned by L. R. Chamberlain
4.	Description of well: driller existing well ; depth to twoddisk 115 feet;
	diamenter (outside) of casing 7tt inches; type of pump and power plant to be used
	4" Peerless Turbine Pump
5.	Quantity of water to be appropriated and beneficially used 15,000 barrels
	for drilling oil well with rotary equipment purposes
6.	Acreage to be irrigated NONO acres
	located and described as follows (describe only lands to be irrigated):
	Subdivision Boc. Twp. Range Irrigated Owner Chambellain #4 will be located in the NEW Butter 14 T155 R37E.
	DEC 21 1951 DEC 17 1951 DEC 17 1951
	NOSWELL, NEW MEXICO ARTEGIAN WELL SUPERVISOR
	(Note: location of well and acreage to be irrigated must be shown on plat on everychile WELL, NEW MEXICO
7.	Time required to commence construction 12-15-51
	Time required to complete the works.
	Time required to fully apply water to beneficial use 6 months
8.	Additional statements or explanations (including data on any other water rights appurtenant to above lands)
	To drill for oil Gulf L. R. Chamberlain No. 4 located 2310' from the
	South and West Lines of Section14-158-37E, Lea County, New Mexico to an
	estimated depth of 12,800'. Application No. I-1110 granted authority to
	utilize water from subject well to drill Chamberlain No. 2. Operations
	have been completed on this well and authority is requested to utilize
	water for drilling Chamberlain No. 4.
an th	I, <u>Chase Taylor</u> , being first duly sworn upon my oath, depose d say that I have carefully read the foregoing statement and each and all of the items contained therein, and that e same are true to the best of my knowledge and belief.
	GULF OIL CORPORATION , applicant
	Ehan Jorl lov
Su	bscribed and sworn to before me this 13th day of December , A.D., 19.51
Му	Commission expires 7-20-54 (Ivis Billireath

APPROVAL OF THE STATE ENGINEER

mber of this permit—		Date received corrected Publication of notice ordered Name of paper Affidavit of publication filed				
corded in Book						
_						
				oval	•	24, 1953.
This application is a						acre feet of water irce and provided that
applicant complies v						
2-						RREXEASEREE
HOYASTIA STATE						
						
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	<u> </u>					<u></u>
					eted	
Water shall be appl						
		• • • • • • • • • • • • • • • • • • • •	-	• • •	-	he underground waters
the State of New M		24th	-		provision ust	s and conditions. , A.D., 1953
Witness my hand a	seal this		uay OI	1730	m	, A. D., 19-
					istant	State Engineer
						n following plat:37E, n.m.p.m.
ction (s) 1/t		_, rownship		, Kange_		, N.M.F.M.
			o Water	Well		Water well located 650
		1	0 "201	"01	}	from North Line and 21
			T			from East Line in Sect
		} ;				14-1/0-/154
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		l				}
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		- 0	namberlai	n No. l.		
		` ° 0	amberiai	n NO. 4	}	
			†i			
		 	 		 	
]				
	L		<u> </u>		<u> </u>]
This farm shall be	avanuta		UCTIONS			-4 has a filless 4 4 95 AA
this form shall be ach of triplicate copi	es must be prope	anly typewritten, rly signed and att	in triplicate ested.	and shall be a	ccompani	ed by a filing fee of \$5.00.
A separate applica	tion for permit n	ust be filed for e		d.		
Secs. 1-4-Fill out a	-	<u>-</u>				•
Sec. 5—Irrigation u mestic, municipal, or e irrigation of not m	other purposes,	tate total quantit	y in acre fee	t to be used as	nually. I	plied on the land. If for comestic use may include
Sec. 8—Describe or cted" from the neare	aly the lands to be at government su	irrigated. If on	unsurveyed lescribe by n	lands describ	e by leg	al subdivision "as pro- e survey to some perma-

Sec. 7—Estimate time reasonably required to commence and to complete project.

Sec. 8-If lands are irrigated from any other source, explain in this section. Give any other data necessary to fully describe water right sought.

If additional space is necessary, use a separate sheet or sheets and attach securely hereto.

PROGRESSIVE PUBLISHING CO., MOUNTAINAIR, N. M.

APPLICATION FOR PERMIT -

To Appropriate the Underground Waters of the State of New Mexico

LEA COUNTY UNDERGROUN	D WATER BAS	IN			
lication No. L-1110 Book VIC-1 De	ate Received	April 2	0, 195	1	
Name of applicant Gulf Oil Corporation					
Postoffice address Box 1290, Fort Worth 1, T	exas			***************************************	
County of Tarrant , se	tate of Texa	ı.a			
Source of water supply shallow ground water	basin				
located in Lea County, Basin	or shallow, ground	water basin)			
(name of underground atream,	zalley, artesian basi	in, etc.)		·	
The well is to be located in the					
of section 14 Township 158		Range	17E	, N,1	M.P.M.
Description of well: drillerexisting well				-	
diamenter (outside) of casing		type of pum	p and por	wer plant to be	e used
4" Peerless Turbine Pump				***************************************	
,					
Quantity of water to be appropriated and beneficially	used15,00£	L.barrels (feet depth or	acre feet	per acrc)	······································
for drilling oil well with rotary equip			· · · · · · · · · · · · · · · · · · ·	pui	rposes.
Acreage to be irrigated					acres
located and described as follows (describe only lands to	be irrigated):				
One Madellan	Acre				
Subdivision Sec.	Range Irrig	ated		Owner	
- Wind and all the	L+++				1
An (CC)	`~e/	1	78		+
APR 9.0 7551		C8 11	To mg	Yhar	+
STATE ENGIN		— — <u>n</u>	177. ()	701	+
			0 8 94 6		
PY			N WELL	openvison Thenvison	+
		ROSW	ell, her	LEXICO	<u></u>
	***************************************	·········			
(Note: location of well and acreage to be irrigat	ed must be shown	on plat on rev	erse side.)		
Time required to commence construction. 3-30-51				,2,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	;
Time required to complete the works. 10-1-51		A			;
Time required to fully apply water to beneficial use					
Additional statements or explanations (including data or	_				ia)
To drill for oil Gulf L. R. Chamberlai					
Line and 1980' from West Line of Secti	lon 14-155-	71E#	County	ASM_HEN.E.	160
to a depth of 12,500%			·····		······································
		······································			
					
Р Р цо+ек-13	***************************************			····	
I, F. E. Hatfield d say that I have carefully read the foregoing statement				on my oath,	
e same are true to the best of my knowledge and belief.	me coon and at	or end IFEN) and the same and	אנג אנג
(GULF OIL CO	RPOBATIO	N //	apj	nlican
	3v /6 (Dan	K		n and
bscribed and sworn to before me this 4th	day	ey-ih-Fad	7/	, A. D., 19	Z (1
SOUTH THE STOCK OF DELVE III WILL STOCK ST	BR	Jan 1		13. K. JO	
Commission expires May 31, 1951		or wa	<u>~_</u>		
Commission expires May 31, 1951	7- 1	o- wa	w	Notary Pul	

r 4

APPROVAL OF THE STATE ENGINEER

ber of this permit	L-1110		Date received corrected	
			Publication of notice ordered	***************************************
	1110	·····	Name of paper	
			Affidavit of publication filed	
returned for correct	tton		Date of approval April 24.	1951.
This application is a	pproved for		3	acre feet of water
ect to all prior valid	and existing rigi	hts to the use of t	he waters of said underground source	e and provided that
			State Engineer pertaining to the drill at all times to 3 acre fe	
			well drilling). Well to	
upon completi	on of oil w	ell drilling	operations. ('meli a	
apon compro a	011 01 011 11	<u> </u>	opor Gotton	****************
		· 	2 1 5 p	

Works shou he ham	loted and masses		April 24, 1952.	,
			d on or before	
			cation for permit to appropriate the	
			a subject to the foregoing provisions s	nd conditions
Witness my hand an			day of	il , A.D., 19.51
my make the		•	(F) (3co	
				and the same of th
		·	Assistant	State Engineer
_		E IRRIGATED A	Assistant Assistant As Accurately as Possible on 1	State Engineer FOLLOWING PLAT:
_		E IRRIGATED A	Assistant	State Engineer FOLLOWING PLAT:
_		E IRRIGATED A	Assistant Assistant As Accurately as Possible on 1	State Engineer FOLLOWING PLAT:
_	L.R.Ch	E IRRIGATED A, Township15	Assistant Assistant Accurately as possible on i Range 37E o Water Well	State Engineer FOLLOWING PLAT:, N.M.P.M.
	L.R.Ch	E IRRIGATED A	Assistant S ACCURATELY AS POSSIBLE ON I Range 37E O Water Well	State Engineer POLLOWING PLAT:, N.M.P.M. Water well loca from North Line
_	L.R.Ch	E IRRIGATED A, Township15	Assistant ASSISTANT ASSISTANT Range 37E O Water Well	State Engineer FOLLOWING PLAT:, N.M.P.M.
_	L.R.Ch	E IRRIGATED A, Township15	Assistant ASSISTANT ASSISTANT Range 37E O Water Well	State Engineer POLLOWING PLAT:, N.M.P.M. Water well loca from North Line from East line
_	L.R.Ch	E IRRIGATED A, Township15	Assistant ASSISTANT ASSISTANT Range 37E O Water Well	State Engineer POLLOWING PLAT:, N.M.P.M. Water well loca from North Line from East line
_	L.R.Ch	E IRRIGATED A, Township15	Assistant ASSISTANT ASSISTANT Range 37E O Water Well	State Engineer POLLOWING PLAT:, N.M.P.M. Water well loca from North Line from East line
_	L.R.Ch	E IRRIGATED A, Township15	Assistant ASSISTANT ASSISTANT Range 37E O Water Well	State Engineer POLLOWING PLAT:, N.M.P.M. Water well loca from North Line from East line
_	L.R.Ch	E IRRIGATED A, Township15	Assistant ASSISTANT ASSISTANT Range 37E O Water Well	State Engineer POLLOWING PLAT:, N.M.P.M. Water well loca from North Line from East line
_	L.R.Ch	E IRRIGATED A, Township15	Assistant ASSISTANT ASSISTANT Range 37E O Water Well	State Engineer POLLOWING PLAT:, N.M.P.M. Water well loca from North Line from East line
_	L.R.Ch	E IRRIGATED A, Township15	Assistant ASSISTANT ASSISTANT Range 37E O Water Well	State Engineer POLLOWING PLAT:, N.M.P.M. Water well loca from North Line from East line
_	L.R.Ch	E IRRIGATED A, Township15	Assistant ASSISTANT ASSISTANT Range 37E O Water Well	State Engineer POLLOWING PLAT:, N.M.P.M. Water well loca from North Line from East line
_	L.R.Ch	E IRRIGATED A, Township15	Assistant S ACCURATELY AS POSSIBLE ON I S Range 37E O Water Well	State Engineer POLLOWING PLAT:, N.M.P.M. Water well loca from North Line from East line
_	L.R.Ch	E IRRIGATED A, Township15	Assistant S ACCURATELY AS POSSIBLE ON I S Range 37E O Water Well	State Engineer POLLOWING PLAT:, N.M.P.M. Water well loca from North Line from East line
_	L.R.Ch	E IRRIGATED A, Township15	Assistant S ACCURATELY AS POSSIBLE ON I Range 37E O Water Well	State Engineer FOLLOWING PLAT:
ion (s)	L ₄ R _• Ch	E IRRIGATED A. Township 15 amberlain No. 2.0	Assistant S ACCURATELY AS POSSIBLE ON I Range 37E O Water Well	State Engineer POLLOWING PLAT:, N.M.P.M. Water well loca from North Line from East line
ion (s)	L.R.Ch	E IRRIGATED A. Township 15 amberlain No. 2.0	Assistant S ACCURATELY AS POSSIBLE ON I Range 37E O Water Well	State Engineer FOLLOWING PLAT:

This form shall be executed, preferably typewritten, in triplicate and shall be accompanied by a filing fee of \$5.00. Each of triplicate copies must be properly signed and attested.

A separate application for permit must be filed for each well used.

Secs. 1-4-Fill out all blanks fully and accurately.

Sec. 5—Irrigation use shall be stated in feet depth or acre feet of water per acre to be applied on the land. If for domestic, municipal, or other purposes, state total quantity in acre feet to be used annually. Domestic use may include the irrigation of not more than one acre of lawn and garden for noncommercial use.

Sec. 6—Describe only the lands to be irrigated. If on unsurveyed lands describe by legal subdivision "as projected" from the nearest government survey corners, or describe by metes and bounds and tie survey to some permanent, easily located natural object.

Sec. 7-Estimate time reasonably required to commence and to complete project.

Sec. 8—If lands are irrigated from any other source, explain in this section. Give any other data necessary to fully describe water right sought.

If additional space is necessary, use a separate sheet or sheets and attach securely hereto.

N WINS

THE RYDAL PRESS, SANTA PE, N.M.

Form	WR-23	_	1
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WELL RECORD

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the nearest 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 1A and Section 5 need be completed.

illy pection	ii IA aiiu	Decrion 9 II	eed be comp	ietea.				
		(A) Ov	mor of wall	N	McAlester Fuel	Company		
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Plat of 640 a	acres)	—— Drilling	g was comple	rtea	iai ch		1922	
n at top of	casing i	n feet above	sea level		Total dep	th of well 12	201	
_	-							
2				TER-BEAR	ING STRATA			
		1	n	De	scription of Water	-Bearing Formation		
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3			RECOF	D OF CA	SING	· · · · · · · · · · · · · · · · · · ·	ָנֹייַ יִּ	
Pounds	Threa	ads	Depth	Feet	Type Shoe	Perforations —		
ft.	in	Тор	Bottom	rect	Type Shoe	From	То	
4		REC	ORD OF MU	DDING AI	ND CEMENTING		·····	
th in Feet				1		Methods Used		
То	note i	II III. CI	ay Cel	ileitt				
<u>i</u>								
p.			ni II.C	CINIC DEC	CORD			
							Wn a	
of Plugging	g Contrac	ctor	McAlester]	ruel Cor	ipany	License No.	1127	
	Plat of 640 an at top of hether well 2 Depth in From 3 Pounds ft. 4 th in Feet To 5	Plat of 640 acres) In at top of casing in the ther well is shall. Depth in Feet From To 3 Pounds Three in the thin Feet To Hole i	(A) Ow Street a City	(A) Owner of well. Street and Number. City	(A) Owner of well	(A) Owner of well McAlester Fuel Street and Number P.O. Box 608 City Lovington Well was drilled under Permit No. Le- NW 4 NE 4 NE 4 of Section 11 (B) Drilling Contractor Bishop Drillin Street and Number. City Lovington Drilling was commenced March 2, Drilling was completed March 3, Drilling was completed March 3, Plat of 640 acres) n at top of casing in feet above sea level Drilling was completed March 3, PRINCIPAL WATER-BEARING STRATA Depth in Feet Thickness in Feet Description of Water From To Description of Water From To Bottom Feet Type Shoe A RECORD OF MUDDING AND CEMENTING Thin Feet Diameter Tons No. Sacks of Cement Thin Feet Diameter Tons Clay Cement To Hole in in. Clay Cement PLUGGING RECORD	(A) Owner of well McAlester Fuel Company Street and Number P.O. Box 608 City Lovington State New Well was drilled under Permit No. L-1080 and it now 1/4 NE 1/4 NE 1/4 of Section 1/4 Twp. 158. (B) Drilling Contractor Bishop Drilling Co. License Street and Number City Lovington State New Drilling was commenced March 2, Drilling was completed March 3, Drilling was completed March 3. Plat of 640 acres) In at top of casing in feet above sea level Total depth of well 1/4 hether well is shallow or artesian Shallow Depth to water upon completing the property of the prope	

Type of roughage....

Tons of Clay used _____Tons of Roughage used ____

Depth i		Thickness Color		type of Material Encountered
From	То	in Feet	Color	Type of material Encountered
		The state of the s		
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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 well.

WELL RECORD STATE ENGINEER

at	e of Receipt	••••••••		***********************	RY.	···Permi	No. L-1080)
	Name of per	rmittee,	McAlest	er Fuel Co	<u></u>	·		
3tr	eet or P.O.,	Box 608		,	City and State	Loying	ton, New Me	exico
L.	Well location	n and descr	ription: The	shallow (shallow or artesi	well is loc	cated in NW	NE NE	4,
	NE	¼ of Sec	tion 14	Township	15 South	Range 37 East	Elevation of	top of
	casing above	e sea level,	x	feet; diameter of	hole,7	inches; total	depth, 120	feet;
	depth to wa	ter upon coi	mpletion,	32feet; dril	ling was comm	enced March	2 , 19	<u>51</u> ,
	and comple	tedMa	rch 3	, 1952;	name of drilling	contractorBish	nop Drillin	g Co
			; Addre	ss, Lovingto	n, New Me	XiCO; Driller's 1	License No	
2.	Principal V	Vater-bearin	g Strata:					
	Fro	Depth in Fee	t To	Thickness	Descri	ption of Water-bearin	g Formation	
	No. 1	32	33	1	Shale	and sand		
	No. 2	55	67	2	Water	Sand		
_	No. 3	38	91	3	Water	sand		
_	No. 4	105	120	15	Water	and quick	sand	
	No. 5				,			
8.	Casing Rec	ord:						
	Diameter in inches	Pounds per ft.	Threads D per inch	epth of Casing or Lin Top Botton		Type of Shoe	Perforations From	То
	None (surface	only)				· ····	·····
	***************************************				*******			********
								••••••
	***************************************						***************************************	*************
	,							••••••
4.	If above co	nstruction r	eplaces old we	ll to be abandoned	l, give location:			¥
	of Section		, Township	, Ra	nge	; name and addre	ss of plugging cont	tractor,
	***************************************		•	***************************************				***************************************
	***************************************		······································					
	date of plu	gging	***************************************	19	.; describe ho	w well was plugge	od:	***************************************
	***************************************				***************************************		***************************************	
	*************************				,			

	************		······		*********************			

5. Log of Well:

Depth From	in feet To	Thickness in feet	Description of Formation						
0	2	2	Soil						
2	32	30	Caliche and shale						
32	33	1	Shale and sand (water)						
33	65	32	sand rock and shale						
65	. 67	2	water sand						
67	88	21	sandy shale						
88	91	3	water sand						
91	105	14	rock and clay streaks						
105	120	15	water sand						
	\ 								
		'							
	V		, we can be seen and						
			·						

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 well.

BISHOP DRILLING CO.
by:

Liconsed Well Driller

Instructions

This form shall be executed, preferably typewritten, in triplicate and filed with the State Engineer's Office at Roswell, New Mexico, within 10 days after drilling has been completed. Data on water-bearing strata and on all formations encountered should be as complete and accurate as possible.

PROOF OF COMPLETION OF WORKS, GINEER

UNDERGROUND WATERS

	Date of Receipt No. L-1080
1.	Name of permittee McAlester Fuel Co.
	P. O. address P.O. Box 608 City and State Lovington, New Mexico:
	Permit No. L-1089 to Appropriate (appropriate, repair well, change location of well)
	in the Lea County Underground Basin (name of underground reservoir, artesian basin, etc.)
2.	Description of well: location, NW 4, NE 4 of Section 14
	Township.15South, Range 37. East; total depth,120
	(or hole, if uncased)7inches; if artesian, is well equipped with gate valve?; name
	and address of drillerBishop Drilling Co.: Lovington, New Mexico
	Date drilled,March 2 & 3, 1951
8.	Record of Pumping Test (to be supplied by person or firm making test; Name and address of person making
	test,None_made
	date of test,
	mediately afterward,feet; Lenth of test,hours; average discharge,
	Specific capacity of well,gal. per min. per ft. of drawdown.
4.	Description of pump: Make, Peerless
	type,turbine; if turbine type, give size of column,inches; diameter of
	bowls
	length of column, bowls and suction pipe,70
	inches; if other type, describe,
	APR 7 1952
	rated capacity of pump (if known) 100 G.P.M., at 1760 INVESTMENT OF THE BOSWELL, NEW MEXICO
5.	Description of power plant: make,INTERNATIONAL U=2
•	Industrial on type, Natural Gas ; rated horsepower (if available) 22 ; type of drive connection
	to pump, "V" Belt ; date of installation of power plant, February 20 1952
6.	Actual discharge of pump,SameG.P.M., atrev. per min., from a depth offeet
	Date of test, 19; Name and address of dealer supplying pump and power
	plant, Howard P. Holmes, Drilling Contractor; Eunice, New Mexico

7.	Permit acreage to be served by well,acres, to receive a total ofacre feet of water
	allowed by permit.
8.	The distribution system consists of overnight storage reservoir
	give approximate capacity of reservoir or tank (if any) 500 bbl. tank cubic feet.
	gree approximate capacity of resolvoir of talk (it ally/e
9.	If above construction replaces an old well to be plugged or abandoned, fill out the following: the well abandoned
	is located in the
	Name of plugging contractor,
	Name of plugging contractor,
	Well was plugged in accordance with terms of permit
10.	Give date "Well Record" was filed with State Engineer's Office,enclosed_herewith
11.	Pump and power plant were installed and works completedFebruary 20, 1952
	The undersigned, owner and holder of Permit No, being first duly sworn upon his oath, states
	The analysis Breed, out for and monder of a country commissional possess and another about the country and another country another country and another country and another country and another country and another country and another country and another country and another country and another country and another country and another country and another country and another country another country and another country and another country and another
ths	t he has read the foregoing statements and that the same are true to the best of his knowledge and belief.
	M. 47. July 2. 0
	McAlester Fuel Co.
	bir. A a seed of the
	Morel
	March
	Subscribed and sworn to before me this. 22nd day of XENTUMY, 19.52.
36.	commission expires. Sept. 26, 1953 Pun W. Chearman
му	Notary Public.
•	Affidavit of State Engineer's Representative
	I hereby certify that I have duly inspected the above Works and find them adequate and properly constructed
	Table of the state and the state and the state and the state and s
a.c.	pording to the terms and conditions of the permit. Note any exceptions.

•	
	Walton Muchilae
	Groundwater Supervisor or other representative of State Engineer.
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IMPORTANT—BEAD INSTRUCTIONS ON BACK BEFORE FILLING OUT THIS FORM

APPLICATION FOR PERMIT [

	1 TEA 00	UNTY UNDER	anamm r	DA CITAT		1 5	
me.	rcial-Oil Well Drilli	ng .	,,				
	lication No. I=1080			ate Recei	ved March	5. 1951.	
	Name of applicant MC			Vor. V.			 ,
	Postoffice address Bo	<u>x 000, Lov</u>					 ,
~. '	County of Lea	(n) - 12	, 8	state of	New Mexi	CO	 ,
2.	Source of water supply	Snallow g	round Wa	or shallow	31.71 ground water basin	, ±	** • 3 • •
	located in						
	The well is to be located in th	(name of undergr		NE NE		, NE	• •
3.		, Township.				37 E	
	Det	Township.			, Range_		—, N.M.P.M.
	on land owned by					100	
	diamenter (outside) of casing.				-		
		pump - Inc				imp and power pla	nt to be used
	, DOLL DOGO	pump - 111	240 01 142	Ung Line			
				· on	ly water ne	cessary in d	milling or
o.	Quantity of water to be app	ropriated and	Denencially	used at	lons offeet depth	or acre feet per acre)
	forCommercial-	only water	necessa	ry in d	rilling ope	rations	purposes.
5.	Acreage to be irrigated	none				1,	acres
	located and described as follo	ws (describe or	nly lands to	be irrigat	ted):	. 1	
			_	_	Acres		
	Subdivision	(Sec.	Twp.	Range	Irrigated	Own	er
	NW ¹ / ₄ NE ¹ / ₄ NE ¹ / ₄		<u> 15 s</u>	_37_E	_0.0	Pat McClure	
					Table or	7777 m	
					11/12/6		
					-	<u> </u>	
						5 11-1	
			 ,	<u> </u>	STATE	NGINEER	
					" 		
	(Note: location	of well and acres	ge to be irrigi	ated must be	shown on plat on	reverse side.)	
7.	Time required to commence	construction	1 we	ek			 ;
	Time required to complete th	e works	2 we				;
	Time required to fully apply w	water to benefic	ial use.	ne year	· maximum	·	·
8.	Additional statements or expl	anations (inclu	ding data	on any oth	er water rights	appurtenant to ab	ove lands)
	This well is to be	used in c	onnection	n with	drilling o	perations on	an oil we
	Well will be plugg	ed when dr	illing o	peration	ons are com	plete.	
				<u>; </u>			5 6
					•	!"' " O ()	2
			,				<u> </u>
						<u> </u>	
	I, McAlester Fuel	. Co.			., being first du		
	d say that I have carefully res	d the foregoin		t and each	, being first du	ly sworn upon m	r oath, depose
th	d say that I have carefully res e same are true to the best of	d the foregoin		t and each	, being first du	ly sworn upon m	r oath, depose
th	d say that I have carefully res	d the foregoin		t and each	, being first du and all of the i	ly sworn upon m	oath, depose
th	d say that I have carefully res e same are true to the best of	d the foregoin	and belief.	McAlest	ter Fuel Co	ly sworn upon m	r oath, depose
the	d say that I have carefully res e same are true to the best of	ad the foregoing my knowledge	and belief.	McAlest	, being first du and all of the f	ly sworn upon m tems contained the	oath, depose

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APPROVAL OF THE STATE ENGINEER

umber of this permit	Secs. I-1-Fill out	A.: N. C.							
Age of paper pplication received March 5, 1951. Affidavit of publication filed Name of paper pplication received March 5, 1951. This application is approved for Date of approval March 7, 1951. This application is approved for Ubject to all prior valid and existing rights to the use of the waters of said underground source and provided that he applicant complies with all rules and regulations of the State Engineer pertaining to the drillings of wells blamater of seall of to exceed 7 inches, Appropriation of water to be limited at all times to 3 acre feet per annum for domestic purposes and drilling operations. Works shall be expelled to beneficial use and proofs filed on or before Water shall be applied to beneficial use and proofs filed on or before This is to certify that I have examined the above application for permit to appropriate the underground waters of the State of New Mexico and hereby approve the same subject to the foregoing provisions and conditions. Witness my hand and seal this. This of the State of New Mexico and hereby approve the same subject to the foregoing provisions and conditions. Witness my hand and seal this. The day of March A. D. 19 51 Assistant Same Engineer Assistant Same Engineer Assistant Same Engineer Assistant Same Engineer INSTRUCTIONS This form shall be executed, preferably typewritten, in triplicate and shall be accompanied by a filing fee of the foregoing provisions and anticipation of the property signed and attested.							• "	1	reto Ita
recorded in Book 1000 Name of paper publication received March 5, 1951. Affidavit of publication filed name are feet of water publication received March 5, 1951. This application is approved for Date of approval March 7, 1951. This application is approved for subject to all prior valid and existing rights to the use of the waters of said underground source and provided that are applicant complies with all rules and regulations of the State Engineer pertaining to the diffusing of wells are subject to all prior valid and existing rights to the use of the waters of said underground source and provided that are applicant complies with all rules and regulations of the State Engineer pertaining to the diffusion of the said and provided that are applied to the said and provided that are applied to purposes and drilling operations. Works shall be expended to be plugged upon completion of drilling operations. Water shall be applied to beneficial use and proofs filed on or before Water shall be applied to beneficial use and proofs filed on or before Water shall be applied to beneficial use and proofs filed on or before Water shall be applied to beneficial use and proofs filed on or before Water shall be applied to beneficial use and proofs filed on or before Water shall be appropriate the underground waters of the State of New Mexico and hereby approve the same subject to the foregoing provisions and conditions. Witness my hard and seal this. This is the State of New Mexico and hereby approve the same subject to the foregoing provisions and conditions. Witness my hard and seal this. The Assistant Saus Engineer Saus Engineer									
recorded in Book LG-U Publication of notice ordered nage 1080 Name of paper publication received March 5, 1951. Affidavit of publication filed native returned for correction Date of approval March 7, 1951. This application is approved for 3 acre feet of water ubject to all prior valid and existing rights to the use of the waters of said underground source and provided that he applicant complies with all rules and regulations of the State Engineer pertaining to the drillings of wells Diameter of recil not to exceed 7 inches. Appropriation of water to be limite at all times to 3 acre feet per annum for domestic purposes and drilling operations. Well to be plugged upon completion of drilling operations. Works shall be applied to beneficial use and proofs filed on or before. Water shall be applied to beneficial use and proofs filed on or before. This is to certify that I have examined the above application for permit to appropriate the underground waters of the State of New Mexico and hereby approve the same subject to the foregoing provisions and conditions. Witness my hand and seal this 7th day of Arroth A. D., 19.51 Assistant sute Engineer COCATE WELL AND ACREAGE TO BE FIRRIGATED AS ACCURATELY AS POSSIBLE ON FOLLOWING PLAT Township 15.8 Range 37.E N.M.P.M. N.M.P.M. T. T. T. T. T. T. T. T. T. T. T. T. T.							shall be	accompa	inled by a filing fee o
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If for domestic, municipal, or other purposes, state total quantity in accordant to be used annually. Domestic use may include the irrigation of not more than one acre of law man for noncommercial use.

Sec. 6—Describe only the lands to be irrigated. If on unsurveyed lands describe by legal subdivision "as projecfed" from the nearest government survey corners, or describe by metes and bounds and the survey to some permanent, easily located natural object.

Bec. 7—Estimate time reasonably required to commence and to complete project.

Sec. 8-If lands are irrigated from any other source, explain in this section. Give any other data necessary to fully describe water right sought.

If additional space is necessary, use a separate sheet or sheets and attach securely hereto.

STATE ENGINEER OFFICE

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				GENERAL		TION				ANTA F
A) Owner of	wellM.	G. F. D	rilling	Co.,Ir	ic.		Own	er's Well No.	Den	ton #
Street or F	ost Office Ad	and, Tex	h Floor	Vaughr	r Rrag.	<u> </u>				
				101						
ell was drilled	under Permit l	No. L-766	5		and is lo	cated	in the:			
a	½ <u>SE</u> ½	SE ¼ S	e ¼ of Sec	tion 11	Towns	ship	15SR	ange	7E	_N.M.P.M.
b. Tract N	lo	_ of Map No		of th	ne					
c. Lot No Subdiv	ision, recorded	of Block No Lea		of th	ne County.					, <u></u>
		feet, Y=		feet, l	N.M. Coord	linate !	System			
	ontractor	Abbott E	Bros.				_ License No	WD-40	_	Grant.
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	per foot	per in.	Тор	Bottom	(fee	=======================================	-	F	rom	То
9 5/8"	x 5' su	rface ni	pple							
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		Secti	on 4. RECO	RD OF MUI	DDING AN	D CEN	IENTING			
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Plugging appro	ved by:					$-\frac{2}{3}$	ļ	ļ	-	
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Date Received April 1, 1977

Quad _______ FWL ____ FSL _____
File No. _____ L-7665

Use OWD ______ Location No. 25. 37. 11. 44441

			Section 6. LOG OF HOLE
Depth in Feet T		Thickness in Feet	Color and Type of Material Encountered
0	3	3	Surface soil
3	27	24	Caliche
27	56	29	Sand-tight
56	112	56	Sand-water
112	126	14	Sand-loose
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8	1	<u></u>	
	• •	Section	7. REMARKS AND ADDITIONAL INFORMATION (S 51
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			STATE ENGINEER OFFICE
_			TE A
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_			

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

Murrell albott

STRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office or the State Engineer. All sections, excer Section 5, shall be answered as completely are declared or deepened. When this formulation is used as a plugging record only Section 1(a) Section 5 need be completed.

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9	TATE EN FE. N.M.	
	and Address of Applicant:	File No. L-7665
M.G	F. Drilling Co., Inc.	RECEIVED: March 25, 1977
7th	n Floor Vaughn Bldg.	•
Mid	lland, Texas 79701	
2. Descr	ibe well location under one of the following s	subheadings:
a	SE ¼ SE ¼ SE Lea County.	% of Sec. 11 Twp. 15S Rge. 37E N. M. P. M., in
b. Tra	act No of Map Noof	the
	bdivision, recorded in	
		feet, N. M. Coordinate SystemZone Grant.
	ve street address or route and box No. of particles of the street address or route and box No. of particles of the street address or route and box No. of particles of the street address or route and box No. of particles of the street address or route and box No. of particles of the street address or route and box No. of particles of the street address or route and box No. of particles of the street address or route and box No. of particles of the street address or route and box No. of particles of the street address or route and box No. of particles of the street address of the street ad	property upon which well is to be located, or location by direction and
 3. Appr	oximate depth (if known) 150	feet; outside diameter of casing inches.
Nam	e of driller (if known) Abbott Bros	3.
	of water (check appropriate box or boxes):	
_		SPA.
	Household, non-commercial trees, lawn and	
	Livestock watering,	ATE MA
	Drinking and sanitary purposes and the in a commercial operation.	rigation of non-commercial trees, shruke and lawns in conjunction with to discover or develop natural resources. If R. OFFIC.
Œ	Prospecting, mining or drilling operations t	to discover or develop natural resources
	Construction of public works, highways an	id roads.
		name and nature of business under Remarks (Item 🗫
5. Rema	arks: Drilling-Denton # 1	
		m that the foregoing statements are true to the best of my knowledgence until approval of the permit has been obtained.
_M.	G.F. Drilling Co., Applicant	
Ву:_	Helen Baker	Date: March 23, 1977
===	ACTIO	N OF STATE ENGINEER

This application is approved for the use indicated, subject to all general conditions and to the specific conditions numbered 1.3.5a & 6 on the reverse side hereof. This permit will automatically expire unless this well is drilled or driven and the well record filed on or before ____March_31. 1978

S. E. Reynolds, State Engineer

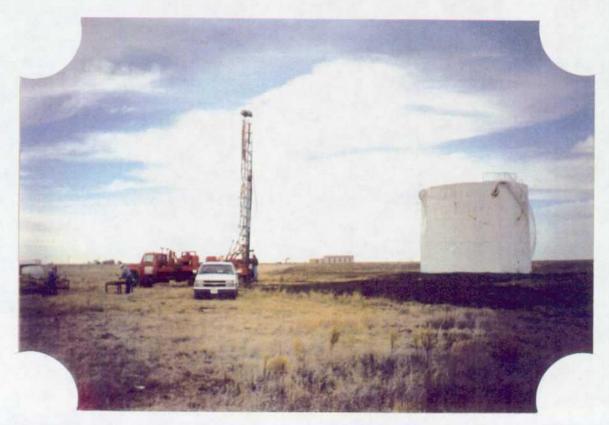
Delbert W. Nelson
Ass't. Dist. II Supervisor
March 25. 1977

APPENDIX E PHOTO-DOCUMENTATION





Photograph 1: View of drilling operations on boring B-3 with Denton Station tank battery in background.



Photograph 2: View of drilling operations on boring B-6 with the inactive tank No. 1980 on the right.



8.0 QUALITY ASSURANCE/QUALITY CONTROL PROCEDURES

8.1 <u>SAMPLING PROCEDURES</u>

A strict Quality Assurance Plan was incorporated throughout all phases of the drilling and sampling operations. The sampling and drilling equipment was decontaminated by a high-pressure steam cleaner before the start of sampling operations and between the borings. The soil samples were collected with decontaminated stainless steel sampling trowels. The sampling equipment was cleaned between sample collections to eliminate the potential of cross-contamination between sampling stations. Groundwater samples were obtained with new disposable bailers after each monitor well was purged.

The soil and water samples were placed in glass jars and sample vials with teflon-lined lids and preserved at 4°C with zero head space in accordance with EPA requirements (EPA 600/4-82-029). A chain-of-custody (COC) that documents sample collection times and delivery times to the laboratory was completed for each set of samples. The COCs are included with the analytical results in the Appendices. Analyses were performed using EPA-recommended analytical methods on all samples.

CURA maintains the highest quality assurance standards with direct supervision of operations (sample handling and storage). Drilling operations were conducted using a licensed water well driller. CURA provides management oversight for laboratory procedures and analytical results and uses laboratories that maintain strict quality control, i.e., equipment calibration and standardization, EPA-recommended analytical methods, preparing spiked samples, and complete chains-of-custody.

9.0 SITE SAFETY PLAN

The sampling operations were performed at level D personal protection. All CURA personnel involved in on-site activities have completed the Hazardous Waste Field Operation training course (OSHA 29 CFR 1910.120). Applicable safety equipment was available on site to CURA personnel.



SITE SAFETY PLAN

Site Name:	SPLC - Denton Station				
Site Address: 13 miles northeast of Lovington in Lea County, New Mexico					
Site Owner: Shell Pipe Line Corporation					
Contacts: John B. Hite (713) 241-1001					
-	Environmental site assessment activities: soil borings, soil sampling				
and site mapping.					
•	Work: February 8, 1993 Leader - F. Wesley Root (CURA, Inc.)				
	afety Officer - F. Wesley Root (CURA, Inc.)				
	Member - Leon Moore (Shell Pipe Line Corporation)				
Team	Member - Barry Simmons (Hi-Plains Drilling Company)				
Team	Member - Freddy Tovar (Hi-Plains Drilling Company)				
Plan prepared by:_	Greg C. Walterscheid, R.E.M.				
Reviewed by:	Richard Wilson, Ph.D.				



EMERGENCY INFORMATION

Site Name:	SPLC - Denton Station	
Site Address:	13 miles northeast of Lovington in Lea County, New Mexico	
Site Owner:	Shell Pipe Line Corporation	

Telephone Numbers:

 Ambulance Service:
 911

 Hospital:
 NorLea Hospital 505-396-6611

 Poison Control Center:
 911

 Police:
 505-396-2811

 Fire Department:
 505-396-2359

Emergency Contacts

Company Health and Safety Officer:

Dr. Richard Wilson
Work: (214) 620-7117
Home: (214) 241-5803

 Work:
 1-800-486-7117

 Mobile Phone:
 1-214-202-9320

Pager: <u>1-214-807-8154</u> Home: <u>1-214-317-0518</u>

10.0 REFERENCES

Code of Federal Regulations, Title 40 §§ 280 and 281.

- CURA, Inc., January 15, 1993. <u>Preliminary Site Assessment, Denton Station, Lea County, New Mexico</u>. Midland, Texas.
- Groat, C. G., 1976. <u>Geologic Atlas of Texas (Hobbs Sheet)</u>. Bureau of Economic Geology, The University of Texas at Austin, Texas.
- Oil Conservation Division, Memorandum, December 21, 1992. <u>Final Draft OCD</u>

 <u>Surface Impoundment Closure Guidelines</u>. Energy, Minerals and Resources

 Department, Santa Fe, New Mexico.
- Oil Conservation Division, Environmental Regulations, 1992. Energy, Minerals and Resources Department, Santa Fe, New Mexico.
- Turner, M.T., et al., 1974. <u>Soil Survey of Lea County, New Mexico</u>. United States Department of Agriculture Soil Conservation Service, in cooperation with the New Mexico Agricultural Experiment Station. U.S. Publishing Office: Washington, D.C.
- USGS Topographic Survey Map. Prairieview, New Mexico, Quadrangle. 1970.