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41

REPORTS

DATE:

1997

MARTIN YATES, III
1912 - 1985
FRANK W. YATES
1936 - 1986



105 SOUTH FOURTH STREET
ARTESIA, NEW MEXICO 88210
TELEPHONE (505) 748-1471

S. P. YATES
CHAIRMAN OF THE BOARD
JOHN A. YATES
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EXECUTIVE VICE PRESIDENT
RANDY G. PATTERSON
SECRETARY
DENNIS G. KINSEY
TREASURER

Mr. Mark Ashley
New Mexico Oil
Conservation Division
2040 South Pacheco
Santa Fe, NM 87505

RECEIVED

MAR 13 1997

Environmental Bureau
Oil Conservation Division

March 11, 1998

Re: Pit Closure

Dear Mark,

Pursuant to OCD's Unlined Surface Impoundment Closure Guidelines (Feb. 1993), Yates has prepared the enclosed plan for closure of pits located at recently purchased facilities in Eddy County.

Please contact me at (505) 748-4185 if you need additional information.

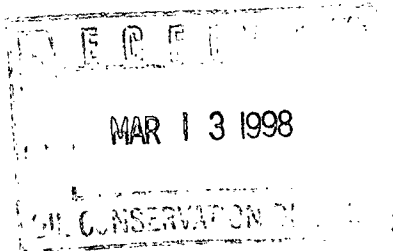
Sincerely,

Lisa Norton
Environmental
Coordinator

enc.

cc: Mr. Ray Smith
NMOCD
District 2
811 South First
Artesia, NM 88210

Yates Petroleum Corp.
Artesia, New Mexico



Unlined Surface Impoundments

Closure Plan

for pits located in

Eddy County, New Mexico

T18&19S R26E

at

Lattion Tank Battery

Scripps Tank Battery

Williams Tank Battery

Inex Tank Battery

and

Santa Fe Land Improvement #1 SWD

March 1998

Yates Petroleum Corporation (Yates) has prepared this Closure Plan pursuant to OCD's Unlined Surface Impoundment Closure Guidelines (Feb. 1993). The pits located at the Inex, Lattion, Scripps and Williams batteries and the Santa Fe Land Improvement #1 salt water disposal (SWD) well in Eddy County were formerly owned by H&S Oil Co. and purchased by Yates in February 1998.

1. Facility Location

The sites are located in southeastern New Mexico, approximately nine miles south-southeast of Artesia, New Mexico. The facilities are listed below and shown on Attachment 1.

- Inex Tank Battery - T18S R26E, Section 26, NE 1/4
- Lattion Tank Battery - T18S R26E, Section 23, SE 1/4
- Scripps Tank Battery - T18S R26E, Section 25, SW 1/4
- Williams Tank Battery - T18S R26E, Section 25, NE 1/4
- Santa Fe Land Improvement #1 SWD - T19S R26E, Section 17, SE 1/4

2. Site and Vicinity Characteristics

The pits are located south-southeast of Artesia, New Mexico in a relatively unpopulated area of Eddy County, New Mexico and reached by unimproved roadways. The sites are associated with oil and gas production wells, piping, treatment and storage equipment and a saltwater disposal well (SWD). The facilities are scattered across a five square mile, discontinuous area with the SWD located five miles southwest of the other four locations.

3. Groundwater

Groundwater in the area of the site occurs at an approximate elevation of 3,250 feet above mean sea level (MSL). This corresponds to an approximate depth of 40 to 90 feet below ground surface (bgs) in the general area, based on ground surface elevation of 3,280 to 3,340 feet above MSL.

4. Topography / Distance to Surface Water Body

The elevation in the vicinity of the tank batteries ranges from approximately 3,280 feet above mean sea level (MSL) on the southeast portion to approximately 3,310 feet above MSL on the northwestern portion of the area. The elevation at the SWD is approximately 3,380 feet above MSL. The U.S. Geological Survey (USGS) topographic maps of the Lake McMillan North and Dayton, New Mexico quadrangles were reviewed for topographic and drainage information (USGS, 1955 and 1975, respectively). The topographic map indicates that the ground surface in the vicinity of the tank batteries slopes east-southeast toward the Pecos River. Surface water flows to the east-southeast into the Pecos River, located approximately one mile east. The prominent natural features in the vicinity include the Pecos River and associated floodplain located immediately adjacent to the east side of the tank batteries.

The topographic map indicates that the ground surface in the vicinity of the SWD is located along a surface water divide, with the ground surface on the north side of the SWD sloping north-northeast towards Fourmile Draw and the ground surface on the south side of the SWD sloping south-southeast towards North Seven Rivers. From either of these drainages surface water flows to the east-southeast into the Pecos River, located approximately four miles east of the SWD. The most prominent natural feature in the vicinity of the SWD is the Pecos River located four miles east.

5. Wellhead Protection Area

The closest public water supply well in the area is approximately two (2) miles southeast of the site at the SKP RV Park. The well serves under 101 persons.

Information on private domestic water sources in the area obtained from the State Engineers Office is attached.

6. Site Descriptions / Waste Characteristics

On September 23, 1997 Yates sampled sludge and water in each of the five pits. A description of each site follows along with a summary of those analytical results.

A. Inex Tank Battery Unlined Disposal Pit. (T18S R26E Section 26 NE 1/4)

The unlined pit is approximately 40 feet by 40 feet and located adjacent to the battery. The pit contained water and oil with petroleum saturated soils on the pit walls. A sample of the pit water/oil interface was collected for laboratory analyses to determine the total petroleum hydrocarbon (TPH) and BTEX concentrations. The laboratory was unable to identify a water phase and thus only analyzed the oil portion. The oil sample was found to contain 330,000 ppm of TPH, exceeding the OCD Soil Guidelines of 1,000 ppm and 52.8 ppm of total BTEX, which exceeds the OCD Soil Guideline of 50 ppm total BTEX.

B. Lattion Tank Battery Unlined Disposal Pit. (T18S R26E Section 23 SE 1/4)

The unlined pit is approximately 40 feet by 40 feet and located adjacent to the battery. The pit contained water and oil with petroleum saturated soils on the pit walls. A sample of the pit water/oil interface was collected for laboratory analyses to determine the petroleum hydrocarbon and BTEX concentrations. The oil at the surface contained 180,000 ppm of TPH, exceeding the OCD Soil Guidelines of 1,000 ppm. The water beneath the oil in the pit contained 20 parts per billion (ppb) of benzene, exceeding the New Mexico Water Quality Control Commission (NMWQCC) water quality standard of 10 ppb.

C. Scripps Tank Battery Unlined Disposal Pit. (T18S R26E Section 25 SW 1/4)

The unlined pit is approximately 40 feet by 40 feet and located adjacent to the battery. The pit contained water and oil with petroleum saturated soils on the pit walls. A soil sample from the pit wall was collected from above the liquid level in the pit. The soil collected from the pit wall contained 27,000 ppm of TPH, exceeding the OCD Soil Guidelines of 1,000 ppm.

D. Williams Tank Battery Unlined Disposal Pit. (T18S R26E Section 25 NE 1/4)

The unlined pit is approximately 40 feet by 40 feet and located adjacent to the battery. The pit contained water and oil with petroleum saturated soils on the pit walls. A sample of the pit water/oil interface was collected for laboratory analyses to determine the total petroleum hydrocarbon and BTEX concentrations. The oil at the oil/water interface contained 230,000 ppm of TPH, exceeding the OCD Soil Guidelines of 1,000 ppm. BTEX concentrations of the pit water did not exceed the New Mexico Water Quality Control Commission (NMWQCC) water quality standards.

E. Santa Fe Land Improvement #1 Unlined Disposal Pit. (T19S R26E Section 17 SE 1/4)

The unlined pit is approximately 20 feet by 150 feet and located adjacent to the battery. The pit contains water and oil with petroleum saturated soils on the pit walls. A sample of the pit water/oil interface was collected for laboratory analyses to determine the total petroleum hydrocarbon and BTEX concentrations. The oil at the oil/water interface contained 220,000 ppm of TPH, exceeding the OCD Soil Guidelines of 1,000 ppm. BTEX concentrations of the pit water were 81 parts per billion (ppb) of benzene, exceeding the New Mexico Water Quality Control Commission (NMWQCC) water quality standard of 10 ppb.

7. Sampling Plan

Yates has removed liquids from the pits. In order to assess the vertical and horizontal extent of contamination within and beneath each of the pits, discrete samples from the surface of the bottom elevation and approximately three (3) feet into the undisturbed soils beneath the bottom and into the side walls of the pits will be sampled. Yates proposes to perform sampling as soon as the surface has dried sufficiently to allow entry.

Caliche deposits are common in the area, generally occurring near the ground surface. Because caliche provides a low permeability barrier to retard vertical percolation of contaminants into the subsurface, Yates does not expect to encounter ground water contamination. If after completion of the soil sampling a reasonable probability of ground water contamination should exist based upon the level of contamination directly beneath the pits, a groundwater sampling and abatement plan will be prepared and submitted for OCD approval.

8. Soil Remediation Plan

Yates plans to bioremediate insitu any soil in the pits that contain contaminants above OCD standards by aerating and adding nutrients. Once residual contaminant concentrations meet OCD recommended soil remediation levels or if sampling determines that no contamination above standards exists, Yates will close the locations by backfilling and contouring to provide drainage away from the sites.

9. Final Closure

Upon completion of closure activities, Yates will document the closure to the OCD in a Final Closure Report. This report will describe the closure activities performed including third-party sampling to confirm that closure standards have been met.

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.

Section 1

(Plat of 640 acres)

(A) Owner of well T. H. Flint
Street and Number _____
City Artesia, State New Mexico
Well was drilled under Permit No. RA-1296 and is located in the
1/4 NW 1/4 NW 1/4 of Section 23 Twp. 18 Rge. 26
(B) Drilling Contractor R. I. Willson License No. _____
Street and Number _____
City _____ State _____
Drilling was commenced March 1, 19 39
Drilling was completed March 30, 19 39

Elevation at top of casing in feet above sea level _____ Total depth of well 180 ft.
State whether well is shallow or artesian _____ Depth to water upon completion _____

Section 2 PRINCIPAL WATER-BEARING STRATA

No.	Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation
	From	To		
1				
2				
3				
4				
5				

Section 3 RECORD OF CASING

Dia in.	Pounds ft.	Threads in	Depth		Feet	Type Shoe	Perforations	
			Top	Bottom			From	To
15 1/2	70				167			

Section 4 RECORD OF MUDDING AND CEMENTING

Depth in Feet		Diameter Hole in in.	Tons Clay	No. Sacks of Cement	Methods Used
From	To				

Section 5 PLUGGING RECORD

Name of Plugging Contractor _____ License No. _____
Street and Number _____ City _____ State _____
Tons of Clay used _____ Tons of Roughage used _____ Type of roughage _____
Plugging method used _____ Date Plugged _____ 19 _____
Plugging approved by: _____

Cement Plugs were placed as follows:

No.	Depth of Plug		No. of Sacks Used
	From	To	

Basin Supervisor _____
FOR USE OF STATE ENGINEER ONLY
Date Received _____
File No. RA-1296

Section 6

LOG OF WELL

[illegible]

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

R. I. Willson
Well Driller

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.

Section 1

(Plat of 640 acres)

(A) Owner of well Paul & Johnnie Rogers
Street and Number Rte 1 Box 83
City Artesia State N.M.
Well was drilled under Permit No. RA-1210 and is located in the
S.W. 1/4 N.W. 1/4 NE 1/4 of Section 23 Twp. 18 S Rge. 26 E
(B) Drilling Contractor A. F. Smith License No. WD-28
Street and Number 306 W. Chisum
City Artesia State N.M.
Drilling was commenced July 15 19 60
Drilling was completed July 19 19 60

Elevation at top of casing in feet above sea level _____ Total depth of well 200'
State whether well is shallow or artesian shallow Depth to water upon completion 60'

Section 2 PRINCIPAL WATER-BEARING STRATA

No.	Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation
	From	To		
1				<u>Cleaned out from 170' to 200'</u>
2				
3				
4				
5				

Section 3 RECORD OF CASING

Dia in.	Pounds ft.	Threads in	Depth		Feet	Type Shoe	Perforations	
			Top	Bottom			From	To

Section 4 RECORD OF MUDDING AND CEMENTING

Depth in Feet		Diameter Hole in in.	Tons Clay	No. Sacks of Cement	Methods Used
From	To				

Section 5 PLUGGING RECORD

Name of Plugging Contractor _____ License No. _____
Street and Number _____ City _____ State _____
Tons of Clay used _____ Tons of Roughage used _____ Type of roughage _____
Plugging method used _____ Date Plugged _____ 19 _____
Plugging approved by: _____ Cement Plugs were placed as follows:

Basin Supervisor

FOR USE OF STATE ENGINEER ONLY
Date Received 60 AUG - 1 AM 8:24

File No. RA-1210 Use Dr. Location No. 18.26.23 2/3

No.	Depth of Plug		No. of Sacks Used
	From	To	

Section 6

LOG OF WELL

[illegible]

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

G. F. Smith
Well Driller

Dec 10 56

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.

Section 1

(Plat of 640 acres)

(A) Owner of well Paul & Johnie Rogers
Street and Number Route 1 Box 104
City Artesia RA 1210 S State N.M.
Well was drilled under Permit No. XXXXSMIKh and is located in the
SW 1/4 NW 1/4 NE 1/4 of Section 23 Twp. 18S Rge. 26E
(B) Drilling Contractor A.F. Smith License No. WD 28
Street and Number 306 West Chisum
City Artesia State N.M.
Drilling was commenced August 12 19 57
Drilling was completed August 30 19 57

Elevation at top of casing in feet above sea level _____ Total depth of well 200'
State whether well is shallow or artesian Shallow Depth to water upon completion 60'

Section 2 PRINCIPAL WATER-BEARING STRATA

No.	Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation
	From	To		
1				Cleaned out and deepened from 79' to 200'. Repair job
2				
3				
4				
5				

Section 3 RECORD OF CASING

Dia in.	Pounds ft.	Threads in	Depth		Feet	Type Shoe	Perforations	
			Top	Bottom			From	To

Section 4 RECORD OF MUDDING AND CEMENTING

Depth in Feet		Diameter Hole in in.	Tons Clay	No. Sacks of Cement	Methods Used
From	To				

Section 5 PLUGGING RECORD

Name of Plugging Contractor _____ License No. _____
Street and Number _____ City _____ State _____
Tons of Clay used _____ Tons of Roughage used _____ Type of roughage _____
Plugging method used _____ Date Plugged _____ 19 _____
Plugging approved by: _____

Cement Plugs were placed as follows:

Basin Supervisor

FOR USE OF STATE ENGINEER ONLY

FILED

DATE RECEIVED SEP 2 1957

OFFICE

GROUND WATER SUPERVISOR

ROSWELL, NEW MEXICO

No.	Depth of Plug		No. of Sacks Used
	From	To	

File No. RA-1210-5 Use su Location No. 18.26.23.213

LOG OF WELL

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.

C. F. Smith
Well Driller

WELL RECORD

Date of Receipt October 1954 Permit No. RA 1346

Name of permittee, Paul Rogers

Street or P. O. Route 1, City and State Artesia, New Mexico

1. Well location and description: The shallow well is located in NW 1/4, SE 1/4,
(shallow or artesian)

1/4 of Section 23, Township 18S, Range 26 E NMPM; Elevation of top of

casing above sea level, feet; diameter of hole, 13 3/8 inches; total depth, 200 feet;

depth to water upon completion, 45 feet; drilling was commenced DEC. 29, 1954,

and completed Jan 8, 1955; name of drilling contractor A.F. Smith

306 W. Chisum; Address, Artesia, NM.; Driller's License No. WD 28

2. Principal Water-bearing Strata:

	Depth in Feet		Thickness	Description of Water-bearing Formation
	From	To		
No. 1	<u>45</u>	<u>55</u>	<u>10</u>	<u>Sand</u>
No. 2	<u>90</u>	<u>100</u>	<u>10</u>	<u>Sand And Gravel</u>
No. 3				
No. 4				
No. 5				

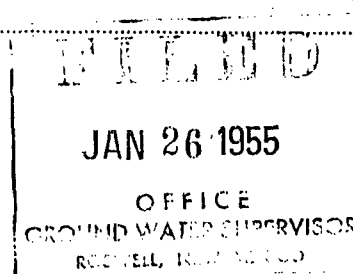
3. Casing Record:

Diameter in inches	Pounds per ft.	Threads per inch	Depth of Casing or Liner		Feet of Casing	Type of Shoe	Perforation	
			Top	Bottom			From	To
<u>13 3/8</u>	<u>54</u>	<u>8</u>			<u>125</u>	<u>Larkin</u>	<u>0</u>	<u>125</u>

4. If above construction replaces old well to be abandoned, give location: 1/4, 1/4, 1/4

of Section , Township , Range ; name and address of plugging contractor,

date of plugging , 19 ; describe how well was plugged:



18, 26, 23, 410

09

RA-1346

5. Log of Well:

[illegible]

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

C. F. Smith
Licensed 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.

WELL RECORD

Date of Receipt Dec. 1 1953Permit No. RA ? 2132-BName of permittee, Sanders TerryStreet or P. O. route 1 Box 114, City and State Artesia, N.M.1. Well location and description: The Shallow well is located in SW $\frac{1}{4}$, NE $\frac{1}{4}$,
(shallow or artesian)NW $\frac{1}{4}$ of Section 24, Township 18S, Range 26E; Elevation of top ofcasing above sea level, _____ feet; diameter of hole, 12 $\frac{1}{2}$ inches; total depth, 105 feet;depth to water upon completion, 27 feet; drilling was commenced Dec. 8, 1953,and completed Dec. 10, 1953; name of drilling contractor A.F. Smith306 W Chisum; Address, Artesia, N.M.; Driller's License No. WD 28

2. Principal Water-bearing Strata:

	Depth in Feet		Thickness	Description of Water-bearing Formation
	From	To		
No. 1	18	20	2	gravel
No. 2	40	55	15	Sand & gravel
No. 3	65	87	22	gravel
No. 4				
No. 5				

3. Casing Record:

Diameter in inches	Pounds per ft.	Threads per inch	Depth of Casing or Liner		Feet of Casing	Type of Shoe	Perforation	
			Top	Bottom			From	To
<u>12$\frac{1}{2}$</u>	<u>36</u>	<u>8</u>			<u>105</u>		<u>18</u>	<u>105</u>

4. If above construction replaces old well to be abandoned, give location: _____ $\frac{1}{4}$, _____ $\frac{1}{4}$, _____ $\frac{1}{4}$

of Section _____, Township _____, Range _____; name and address of plugging contractor,

date of plugging _____, 19____; describe how well was plugged: _____

FILED

JAN 11 1954

OFFICE
GROUND WATER SUPERVISOR
ROSWELL, NEW MEXICO

A 2132-B

18:26 24.123

[illegible]

C. F. Smith
Licensed Well Driller

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.

FIELD ENGR. LOG

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.

Section 1

(A) Owner of well Sanders Terry
Street and Number _____
City Artesia State N. M.
Well was drilled under Permit No. RA-1210, 2132 & 1346 Combined A-S and is located in the
1/4 1/4 NW 1/4 of Section 24 Twp. 18 Rge. 2E
(B) Drilling Contractor Leonard George License No. ED 21 A
Street and Number Box 795
City Herman State N. M.
Drilling was commenced Dec 21 1963
Drilling was completed Dec 29 1963

(Plat of 640 acres)

Elevation at top of casing in feet above sea level _____ Total depth of well 160
State whether well is shallow or artesian Shallow Depth to water upon completion _____

Section 2 PRINCIPAL WATER-BEARING STRATA

No.	Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation
	From	To		
1	98	125	27	Gravel
2				
3				
4				
5				

Section 3 RECORD OF CASING

Dia in.	Pounds ft.	Threads in	Depth		Feet	Type Shoe	Perforations	
			Top	Bottom			From	To
16			0	160	160	None	98	150

Section 4 RECORD OF MUDDING AND CEMENTING

Depth in Feet		Diameter Hole in in.	Tons Clay	No. Sacks of Cement	Methods Used
From	To				

Section 5 PLUGGING RECORD

Name of Plugging Contractor _____ License No. _____
Street and Number _____ City _____ State _____
Tons of Clay used _____ Tons of Roughage used _____ Type of roughage _____
Plugging method used _____ Date Plugged _____ 19
Plugging approved by: _____

Cement Plugs were placed as follows:

No.	Depth of Plug		No. of Sacks Used
	From	To	

Basin Supervisor

FOR USE OF STATE ENGINEER ONLY

Date Received _____

82:8 MW 31 83: 4961

File No. RA-1210, RA-2132 & RA-1346 F-Comb-A-S Use Location No. 18.26.24.130

LOG OF WELL

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.

Leonard George
Well Driller

Origin S.F.

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.

Section 1

(A) Owner of well Paul + Johnnie Rogers
Street and Number Route 1 Box 83
City Artesia State N.M.
Well was drilled under Permit No. RA-3900 and is located in the
NW 1/4 SW 1/4 NW 1/4 of Section 24 Twp. 18S Rge. 26E
(B) Drilling Contractor A. F. Smith License No. WD-28
Street and Number 206 W. Ohlson
City Artesia State N.M.
Drilling was commenced July 17 1958
Drilling was completed Aug. 8 1958

(Plat of 640 acres)

Elevation at top of casing in feet above sea level _____ Total depth of well 845'
State whether well is shallow or artesian domestic Artesian Depth to water upon completion 90

Section 2 PRINCIPAL WATER-BEARING STRATA

No.	Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation
	From	To		
1	115'	145'	30'	Sand
2	815	835	20	Rock
3				
4				
5				

Section 3 RECORD OF CASING

Dia in.	Pounds ft.	Threads in	Depth		Feet	Type Shoe	Perforations	
			Top	Bottom			From	To
7"					660'	Haliburton	(none)	
Run 138' of 5 1/2" lines in bottom							Cemented with 75 sacks	Cement

Section 4 RECORD OF MUDDING AND CEMENTING

Depth in Feet		Diameter Hole in in.	Tons Clay	No. Sacks of Cement	Methods Used
From	To				

Section 5 PLUGGING RECORD

Name of Plugging Contractor _____ License No. _____
Street and Number _____ City _____ State _____
Tons of Clay used _____ Tons of Roughage used _____ Type of roughage _____
Plugging method used _____ Date Plugged _____ 19 _____
Plugging approved by: _____

Cement Plugs were placed as follows:

No.	Depth of Plug		No. of Sacks Used
	From	To	

FOR USE OF STATE ENGINEER ONLY

DATE RECEIVED

AUG 11 1958

OFFICE

GROUND WATER SUPERVISOR

ROSWELL, NEW MEXICO

Section 6

LOG OF WELL

Depth in Feet		Thickness in Feet	Color	Type of Material Encountered
From	To			
0	5	5		soil
	115	110		red clay
	145	30		red sand
	175	515		red bed
	660	155		rock
	835	20		broken rock
	845	10		lime
0	5	5		soil
5	115	110		red clay
115	145	30		red sand
145	660	515		red bed
660	815	155		rock
815	835	20		broken rock
835	845	10		lime

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.

E. F. Smith
Well Driller

Well Driller

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, 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.

Sec. 1

NW	NE
SW	SE

(Plat of 640 acres)
Locate Well Accurately

Owner of well Sanders Terry
Street and Number Route 1, Box 114
Post Office Artesia, New Mexico
Well was drilled under Permit No. RA-2132 & RA-1210-A and
is located in the NW $\frac{1}{4}$ SE $\frac{1}{4}$ NW $\frac{1}{4}$ of Section 24
Township 18 North, Range 20 East
Drilling Contractor D. N. Gray
Street and Number 1007 Mission St.
Post Office Artesia, New Mexico

Drilling was commenced Dec. 6 1962 Drilling was completed Dec. 17 1962

Elevation at top of casing in feet above sea level _____

State whether well is shallow or artesian shallow

Total depth of well 166 feet.

Sec. 2 **PRINCIPAL WATER-BEARING STRATA**
No. 1, from 36 to 49, Thickness in feet 13, Formation Gravel
No. 2, from 54 to 64, Thickness in feet 10, Formation sand & Gravel
No. 3, from 70 to 88, Thickness in feet 18, Formation sand & Gravel
No. 4, from 90 to 102, Thickness in feet 12, Formation sand & Gravel
No. 5, from 120 to 145, Thickness in feet 25, Formation Sand & Gravel

Sec. 3 **RECORD OF CASING (clay streaks)**

DIAMETER IN INCHES	POUNDS PER FOOT	THREADS PER INCH	NAME OF MANUFACTURER	FEET OF CASING	TYPE OF SHOE	PERFORATED		PURPOSE
						FROM	TO	
12"OD		8		166'5"		3'	166	

Sec. 4 **RECORD OF MUDDING AND CEMENTING**

DIAMETER OF HOLE IN INCHES	NUMBER OF SACKS OF CEMENT	METHODS USED	SPECIFIC GRAVITY OF MUD	TONS OF CLAY USED

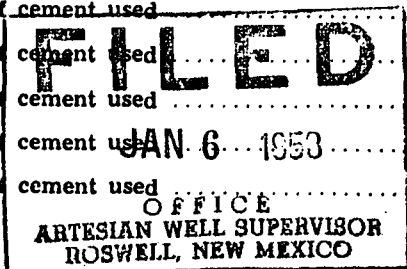
Sec. 5 **PLUGGING RECORD OF OLD WELL**

Well is located in the $\frac{1}{4}$ $\frac{1}{4}$ $\frac{1}{4}$ of Section _____, Township _____
Range _____ Name of plugging contractor _____
Street and Number _____ Post Office _____
Tons of clay used _____ Tons of roughage used _____ Type of roughage _____
Was plugging approved by Artesian Well Supervisor _____

Cement plugs were placed as follows:

No. 1 was placed at _____ feet Number of sacks of cement used _____
No. 2 was placed at _____ feet Number of sacks of cement used _____
No. 3 was placed at _____ feet Number of sacks of cement used _____
No. 4 was placed at _____ feet Number of sacks of cement used _____
No. 5 was placed at _____ feet Number of sacks of cement used _____

(OVER)



RA-2132-2

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.

day of, A. D., 19..... Position

Street and Number 1007 11th St

My Commission Expires Post Office Alameda, N. M.

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.

Section 1

(Plat of 640 acres)

(A) Owner of well Sanders Terry
Street and Number Route 1 Box 114
City Artesia State N.M.
Well was drilled under Permit No. RA 3409 and is located in the
NE 1/4 SE 1/4 NE 1/4 of Section 24 Twp. 18S Rge. 26E
(B) Drilling Contractor A.F. Smith License No. ND 28
Street and Number 306 West Chisum
City Artesia, State N.M.
Drilling was commenced Feb. 13 1956
Drilling was completed Feb. 21 1956

Elevation at top of casing in feet above sea level _____ Total depth of well 175'
State whether well is shallow or artesian shallow Depth to water upon completion 18'

Section 2 PRINCIPAL WATER-BEARING STRATA

No.	Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation
	From	To		
1				Drilled from 105 to 175' Crevice
2				Run liner 77 ft. 10" liner
3				
4				
5				

Section 3 RECORD OF CASING

Dia in.	Pounds ft.	Threads in	Depth		Feet	Type Shoe	Perforations	
			Top	Bottom			From	To
			Top of 10" Liner	85'			85	162'

Section 4 RECORD OF MUDDING AND CEMENTING

Depth in Feet		Diameter Hole in in.	Tons Clay	No. Sacks of Cement	Methods Used
From	To				

Section 5 PLUGGING RECORD

Name of Plugging Contractor _____ License No. _____
Street and Number _____ City _____ State _____
Tons of Clay used _____ Tons of Roughage used _____ Type of roughage _____
Plugging method used _____ Date Plugged _____ 19 _____
Plugging approved by: _____ Cement Plugs were placed as follows:

Basin Supervisor _____

FOR USE OF STATE ENGINEER ONLY

Date Received FEB 21 1956

OFFICE
GROUND WATER SUPERVISOR
ROSWELL, NEW MEXICO

File No. RA-3409 _____ Use _____ Location No. 18. 26. 24. 242

Copy to D7 2-27-56

No.	Depth of Plug		No. of Sacks Used
	From	To	

Section 6

LOG OF WELL

[illegible]

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

R. F. Smith
Well Driller

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.

Section 1

(A) Owner of well Martin Yates Jr. etal
Street and Number Box 566
City Artesia, State New Mexico
Well was drilled under Permit No. RA-1820 and is located in the
SW ¼ SW ¼ ¼ of Section 24 Twp. 18 Rge. 26
(B) Drilling Contractor Brewer Drilling Co. License No. _____
Street and Number Box 566
City Artesia, State New Mexico
Drilling was commenced May 9, 19 40
Drilling was completed July 20, 19 40

(Plat of 640 acres)

Elevation at top of casing in feet above sea level _____ Total depth of well 1033
State whether well is shallow or artesian artesian Depth to water upon completion _____

Section 2 PRINCIPAL WATER-BEARING STRATA

No.	Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation
	From	To		
1	211	215	4	sand
2	786	795	9	sand
3				
4				
5				

Section 3 RECORD OF CASING

Dia in.	Pounds ft.	Threads in	Depth		Feet	Type Shoe	Perforations	
			Top	Bottom			From	To
10	40	8			500	Reg.		
8 1/4	32	8			910	Texas		

Section 4 RECORD OF MUDDING AND CEMENTING

Depth in Feet		Diameter Hole in in.	Tons Clay	No. Sacks of Cement	Methods Used
From	To				
		10	3	20	Halliburton
		8 1/4	5	50	Halliburton

Section 5 PLUGGING RECORD

Name of Plugging Contractor _____ License No. _____
Street and Number _____ City _____ State _____
Tons of Clay used _____ Tons of Roughage used _____ Type of roughage _____
Plugging method used _____ Date Plugged _____ 19 _____
Plugging approved by: _____ Cement Plugs were placed as follows:

Basin Supervisor _____

FOR USE OF STATE ENGINEER ONLY

Date Received _____

File No. RA-1820 Use _____ Location No. 18.26.24.330

No.	Depth of Plug		No. of Sacks Used
	From	To	

Depth in Feet		Thickness in Feet	Color	Type of Material Encountered
From	To			
0	5	5		soil
5	30	25		gyp
30	50	20		sand & gyp
50	75	25		sand
75	103	28		gyp and sand
103	130	27		gyp rock and sand
130	190	60		gyp rock
190	200	10		sand
200	211	11		rock
211	215	4		sand
215	440	25		gyp
440	490	50		gyp with streaks of red bed
490	500	10		hard rock (set 10" casing)
500	540	40		rock-light colored
540	590	50		colored rock
590	615	25		white chalk rock
615	670	55		red sand
670	705	35		rock
705	731	25		grey sand & rock
731	780	49		red sand
780	782	2		lime rock-hard
782	786	4		hard rock
786	795	9		sand
795	878	83		lime rock
878	885	7		grey sandy lime
885	895	10		red sand
895	903	8		lime-set 8 1/4" pipe at 902'
903	988	85		grey lime
988	994	6		sand
994	1005	11		lime & anhydrate
1005	1022	17		grey sandy lime - oil
1022	1032	10		red sand
1032	1033	1		grey lime
Total depth of hole				

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.

--S--O. S. Brewer

Well Driller

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.

Section 1

(A) Owner of well Paul & Johnie Rogers
Street and Number Route 1 Box 104
City Artesia State N.M.
Well was drilled under Permit No. RA 3750 and is located in the
E 1/4 SW 1/4 SE 1/4 of Section 24 Twp. 18S Rge. 26E
(B) Drilling Contractor A.F. Smith License No. WD 28
Street and Number 306 W. Chisum
City Artesia State N.M.
Drilling was commenced August 21 19 57
Drilling was completed August 24 19 57

(Plat of 640 acres)

Elevation at top of casing in feet above sea level _____ Total depth of well 110'
State whether well is shallow or artesian domestic Depth to water upon completion 35'

Section 2

PRINCIPAL WATER-BEARING STRATA

No.	Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation
	From	To		
1	50	85	35	sand
2				
3				
4				
5				

Section 3

RECORD OF CASING

Dia in.	Pounds ft.	Threads in	Depth		Feet	Type Shoe	Perforations	
			Top	Bottom			From	To
7"					94'		73'	94'

Section 4

RECORD OF MUDDING AND CEMENTING

Depth in Feet		Diameter Hole in in.	Tons Clay	No. Sacks of Cement	Methods Used
From	To				

Section 5

PLUGGING RECORD

Name of Plugging Contractor _____ License No. _____
Street and Number _____ City _____ State _____
Tons of Clay used _____ Tons of Roughage used _____ Type of roughage _____
Plugging method used _____ Date Plugged _____ 19 _____
Plugging approved by: _____

Cement Plugs were placed as follows:

No.	Depth of Plug		No. of Sacks Used
	From	To	

Basin Supervisor

FOR USE OF STATE ENGINEER ONLY

FILED

SEP 3 1957

OFFICE

GROUND WATER SUPERVISOR

ROSWELL, NEW MEXICO

Date Received

File No. RA-3750

Use Stock Location No. 18.26.24.435

Section 6

LOG OF WELL

[illegible]

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

R. F. Smith
Well Driller

WELL RECORD

File No. RA-1524

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.

Sec. 1

NW	NE
SW	SE

(Plat of 640 acres)
Locate Well Accurately

Owner of well Donald Panning
Street and Number Route #1
Post Office Artesia, New Mexico
Well was drilled under Permit No. RA-3217 and
is located in the NE $\frac{1}{4}$ NW $\frac{1}{4}$ NW $\frac{1}{4}$ of Section 25
Township 18th Range 26th
Drilling Contractor D. N. Gray
Street and Number 1007 Missouri St.
Post Office Artesia, N. M.

Drilling was commenced May 27 19 54 Drilling was completed June 4 1954
Elevation at top of casing in feet above sea level
State whether well is shallow or artesian Shallow
Total depth of well 100 feet.

Sec. 2 PRINCIPAL WATER-BEARING STRATA

No. 1, from 44 to 68 , Thickness in feet 24 , Formation Sand & Gravel
No. 2, from 68 to 76 , Thickness in feet 8 , Formation sand
No. 3, from 76 to 100 , Thickness in feet 24 , Formation Sand & Gravel
No. 4, from to , Thickness in feet , Formation
No. 5, from to , Thickness in feet , Formation

Sec. 3 RECORD OF CASING

DIAMETER IN INCHES	POUNDS PER FOOT	THREADS PER INCH	NAME OF MANUFACTURER	FEET OF CASING	TYPE OF SHOE	PERFORATED		PURPOSE
						FROM	TO	
<u>16"OD</u>		<u>Welded</u>		<u>101'</u>	<u>Welded</u>	<u>43</u>	<u>101</u>	

Sec. 4 RECORD OF MUDDING AND CEMENTING

DIAMETER OF HOLE IN INCHES	NUMBER OF SACKS OF CEMENT	METHODS USED	SPECIFIC GRAVITY OF MUD	TONS OF CLAY USED

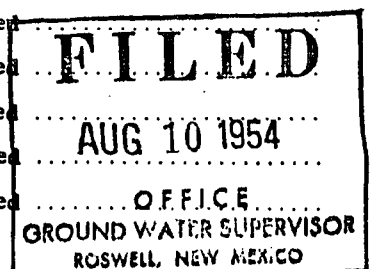
Sec. 5 PLUGGING RECORD OF OLD WELL

Well is located in the $\frac{1}{4}$ $\frac{1}{4}$ $\frac{1}{4}$ of Section , Township
Range Name of plugging contractor
Street and Number Post Office
Tons of clay used Tons of roughage used Type of roughage
..... Was plugging approved by Artesian Well Supervisor

Cement plugs were placed as follows:

No. 1 was placed at feet Number of sacks of cement used
No. 2 was placed at feet Number of sacks of cement used
No. 3 was placed at feet Number of sacks of cement used
No. 4 was placed at feet Number of sacks of cement used
No. 5 was placed at feet Number of sacks of cement used

(OVER)



RA-1524

10 11 54 112

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.

Section 1

(A) Owner of well Mrs. G. E. Platt
Street and Number _____
City _____ State _____
Well was drilled under Permit No. _____ and is located in the
1/4 SW 1/4 SW 1/4 of Section 26 Twp. 18S Rge. 26E
(B) Drilling Contractor H. B. Hull & Co. License No. _____
Street and Number _____
City _____ State _____
Drilling was commenced May 6, 1907
Drilling was completed July 15, 1907

(Plat of 640 acres)

Elevation at top of casing in feet above sea level _____ Total depth of well 869'
State whether well is shallow or artesian _____ Depth to water upon completion _____

Section 2 PRINCIPAL WATER-BEARING STRATA

No.	Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation
	From	To		
1				
2				
3				
4				
5				

Section 3 RECORD OF CASING

Dia in.	Pounds ft.	Threads in	Depth		Feet	Type Shoe	Perforations	
			Top	Bottom			From	To
6			0	635	635			

Section 4 RECORD OF MUDDING AND CEMENTING

Depth in Feet		Diameter Hole in in.	Tons Clay	No. Sacks of Cement	Methods Used
From	To				

Section 5 PLUGGING RECORD

Name of Plugging Contractor _____ License No. _____
Street and Number _____ City _____ State _____
Tons of Clay used _____ Tons of Roughage used _____ Type of roughage _____
Plugging method used _____ Date Plugged _____ 19____
Plugging approved by: _____

Cement Plugs were placed as follows:

No.	Depth of Plug		No. of Sacks Used
	From	To	

Basin Supervisor _____
FOR USE OF STATE ENGINEER ONLY
Date Received _____
File No. _____ Use _____ Location No. 18.26.26.330

Section 6

LOG OF WELL

[illegible]

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

Well Driller

STATE ENGINEER OFFICE
WELL RECORD FIELD ENGR. LOG

Section 1. GENERAL INFORMATION

(A) Owner of well Hubert C. Green Owner's Well No. RA-7242
Street or Post Office Address RRT. Box 110-A
City and State Artesia, New Mexico 88210

Well was drilled under Permit No. WRA-7242-Exploratory and is located in the:
a. W $\frac{1}{2}$ ~~N~~ SW $\frac{1}{4}$ SE $\frac{1}{4}$ of Section 26 Township 18-S Range 26-E N.M.P.M.
b. Tract No. _____ of Map No. _____ of the _____
c. Lot No. _____ of Block No. _____ of the _____
Subdivision, recorded in _____ County.
d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in
the _____ Grant.

(B) Drilling Contractor Hughes Drilling Company License No. WD-749
Address Rt. 1 Box 199A Artesia, New Mexico 88210
Drilling Began 9-20-83 Completed 10-30-83 Type tools Cable Size of hole 8" in.
Elevation of land surface or _____ at well is _____ ft. Total depth of well 102 ft.
Completed well is ☒ shallow ☐ artesian. Depth to water upon completion of well 55 ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			
55	98	43	Coarse Sand & Peas Gravel	40

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet		Length (feet)	Type of Shoe	Perforations	
			Top	Bottom			From	To
7	23	weld-in	0	102	102	None	60	102

Section 4. RECORD OF MUDDING AND CEMENTING

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

Section 5. PLUGGING RECORD

Plugging Contractor _____
Address _____
Plugging Method _____
Date Well Plugged _____
Plugging approved by: _____
State Engineer Representative

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

FOR USE OF STATE ENGINEER ONLY

Date Received November 8, 1983 Quad 106.3.2 FWL _____ FSL _____
File No. RA-7242-Exploratory Use Exploratory Location No. 18.26.26.43343

STATE ENGINEER OFFICE
WELL RECORD

FIELD ENGR. LOG

Section 1. GENERAL INFORMATION

(A) Owner of well Hubert C. Green Owner's Well No. RA-7243-Explor.
Street or Post Office Address R. R. T. Box 110-A
City and State Artesia, NM 88210

Well was drilled under Permit No. RA-7243-Exploratory and is located in the:

a. E $\frac{1}{2}$ ~~XX~~ SW $\frac{1}{4}$ SE $\frac{1}{4}$ of Section 26 Township 18-S Range 26-E N.M.P.M.

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

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

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

(B) Drilling Contractor Hughes Drilling Company License No. WD-749

Address Rt. 1 Box 199A Artesia, NM 88210

Drilling Began July 1, 1984 Completed July 25, 1984 Type tools Cable Size of hole 8 in.

Elevation of land surface or _____ at well is _____ ft. Total depth of well 110 ft.

Completed well is ☒ shallow ☐ artesian. Depth to water upon completion of well 50 ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			
60	68	8	Brown Clay & Sand	50 GPM
68	80	12	Yellow Sand & Clay	
80	90	10	Sand & Pea Gravel	

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet		Length (feet)	Type of Shoe	Perforations	
			Top	Bottom			From	To
7	24	Weld-In	0	110	110	None	45	110

Section 4. RECORD OF MUDDING AND CEMENTING

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

Section 5. PLUGGING RECORD

Plugging Contractor _____

Address _____

Plugging Method _____

Date Well Plugged _____

Plugging approved by: _____

State Engineer Representative

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

FOR USE OF STATE ENGINEER ONLY

Date Received July 27, 1984

Quad 106.3.2 FWL _____ FSL _____

File No. RA-7243-Exploratory Use Dom/Exploratory Location No. 18.26.26.43444

[illegible]

This Well was gravel packed with 3½ yards of 3/8" Orla Pea Gravel & welded a cap on casing.

Dale Hughes
Driller

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

STATE ENGINEER OFFICE
WELL RECORD

FIELD FIG. LOG

Section 1. GENERAL INFORMATION

(A) Owner of well Robert Lynn Barnes Owner's Well No. RA-7219
Street or Post Office Address Rt. 1 Box 196-A
City and State Artesia, New Mexico 88210

Well was drilled under Permit No. RA-7219 and is located in the:

a. W¹/₂ ~~E¹/₂~~ ~~SE~~ 1/4 of Section 26 Township 18-S Range 26-E N.M.P.M.
b. Tract No. _____ of Map No. _____ of the _____
c. Lot No. _____ of Block No. _____ of the _____
Subdivision, recorded in Eddy County.
d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in
the _____ Grant.

(B) Drilling Contractor Hughes Drilling Company License No. WD-749

Address Rt. 1 Box 199A Artesia, New Mexico 88210

Drilling Began 8-25-83 Completed 9-2-83 Type tools Cable Size of hole 8 in.

Elevation of land surface or _____ at well is _____ ft. Total depth of well 110 ft.

Completed well is ☒ shallow ☐ artesian. Depth to water upon completion of well 50 ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			
50	85	35	Sand & Pea Gravel	30

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet		Length (feet)	Type of Shoe	Perforations	
			Top	Bottom			From	To
6 5/8"	n/a	weld-in	0	110	110	None	70	110

Section 4. RECORD OF MUDDING AND CEMENTING

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

Section 5. PLUGGING RECORD

Plugging Contractor _____
Address _____
Plugging Method _____
Date Well Plugged _____
Plugging approved by: _____
State Engineer Representative

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

FOR USE OF STATE ENGINEER ONLY

Date Received September 7, 1983 Quad 106.3.2 FWL _____ FSL _____
File No. RA-7219 Use MORE THAN 1 HOUSE Location No. 18.26.26.44413

[illegible]

Gravel Packed with 4 yds 5/8" Pea gravel

STATE ENGINEER
ROSWELL, NM

SEP 7 8 32 AM '83

Rak Hughes
Driller

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1(a) and Section 2 need be completed.

FIELD ENGR. LOG

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.

Section 1

(A) Owner of well McFarland Drilling Co.
Street and Number 3612 W. Wall
City _____ State Tex.
Well was drilled under Permit No. RA 7 and is located in the
NE 1/4 NW 1/4 SE 1/4 of Section 17 Twp. 19 Rge. 26
(B) Drilling Contractor G. F. Smith License No. WD 28
Street and Number Box 1202
City Artisian State N.M.
Drilling was commenced Sept 14 19 64
Drilling was completed " 28 19 64

(Plat of 640 acres)

Elevation at top of casing in feet above sea level _____ Total depth of well 475'
State whether well is shallow or artesian Shallow Depth to water upon completion 132'

Section 2 PRINCIPAL WATER-BEARING STRATA

No.	Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation
	From	To		
1	150	232	82	sand
2				
3				
4				
5				

Section 3 RECORD OF CASING

Dia in.	Pounds ft.	Threads in	Depth		Feet	Type Shoe	Perforations	
			Top	Bottom			From	To
7"					232	none	202	232

Section 4 RECORD OF MUDDING AND CEMENTING

Depth in Feet		Diameter Hole in in.	Tons Clay	No. Sacks of Cement	Methods Used
From	To				

Section 5 PLUGGING RECORD

Name of Plugging Contractor _____ License No. _____
Street and Number _____ City _____ State _____
Tons of Clay used _____ Tons of Roughage used _____ Type of roughage _____
Plugging method used _____ Date Plugged _____ 19 _____
Plugging approved by: _____

Cement Plugs were placed as follows:

No.	Depth of Plug		No. of Sacks Used
	From	To	

Basin Supervisor

FOR USE OF STATE ENGINEER ONLY

Date Received

NOV 20 AM 8:32 1964

File No. RA-5037 Use OWD Location No. 19-26-17-210

Section 6

LOG OF WELL

[illegible]

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

A. F. Smith
Well Driller

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, 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.

Sec. 1

NW	NE
SW	SE

(Plat of 640 acres)
Locate Well Accurately

Owner of well R. G. Gooden
Street and Number Route 1, Box 104
Post Office Artesia, N. Mex.
Well was drilled under Permit No. RA-1210 and
is located in the SW 1/4 NW 1/4 NE 1/4 of Section 23
Township 18 S., Range 26 E.
Drilling Contractor W. C. Gray
Street and Number 317 W. Dallas
Post Office Artesia, N. Mex.

Drilling was commenced Aug. 10 19 49. Drilling was completed Sept. 20 19 49.
Elevation at top of casing in feet above sea level
State whether well is shallow or artesian Shallow
Total depth of well 162 feet.

Sec. 2 PRINCIPAL WATER-BEARING STRATA

No. 1, from to Thickness in feet Formation
No. 2, from to Thickness in feet Formation
No. 3, from to Thickness in feet Formation
No. 4, from to Thickness in feet Formation
No. 5, from to Thickness in feet Formation

Sec. 3 RECORD OF CASING

DIAMETER IN INCHES	POUNDS PER FOOT	THREADS PER INCH	NAME OF MANUFACTURER	FEET OF CASING	TYPE OF SHOE	PERFORATED		PURPOSE
						FROM	TO	
14"				162'				

Sec. 4 RECORD OF MUDDING AND CEMENTING

DIAMETER OF HOLE IN INCHES	NUMBER OF SACKS OF CEMENT	METHODS USED	SPECIFIC GRAVITY OF MUD	TONS OF CLAY USED

Sec. 5 PLUGGING RECORD OF OLD WELL

Well is located in the 1/4 1/4 1/4 of Section Township
Range Name of plugging contractor
Street and Number Post Office
Tons of clay used Tons of roughage used Type of roughage
..... Was plugging approved by Artesian Well Supervisor

Cement plugs were placed as follows:

No. 1 was placed at feet Number of sacks of cement used
No. 2 was placed at feet Number of sacks of cement used
No. 3 was placed at feet Number of sacks of cement used
No. 4 was placed at feet Number of sacks of cement used
No. 5 was placed at feet Number of sacks of cement used

(OVER)

RA-1210

18.26 23.218

(This form is to be executed in triplicate)

WELL RECORD

Date of Receipt

Permit No. RA 1296 S 2

Name of permittee, Charles R. Martin

Street or P. O. Route 1, City and State Artesia, New Mexico

1. Well location and description: The shallow well is located in NE 1/4 SW 1/4,
(shallow or artesian)
NW 1/4 of Section 23, Township 18S, Range 26E; Elevation of top of
casing above sea level, feet; diameter of hole, 13" inches; total depth, 150 feet;
depth to water upon completion, 35 feet; drilling was commenced March 16, 1954,
and completed March 18, 1954; name of drilling contractor A.F. Smith
306W. Chisum; Address, Artesia, N.M.; Driller's License No. WD 28

2. Principal Water-bearing Strata:

	Depth in Feet		Thickness	Description of Water-bearing Formation
	From	To		
No. 1	40	45	5	Gravel
No. 2	65	75	10	sand
No. 3	115	125	10	gravel
No. 4				
No. 5				

3. Casing Record:

Diameter in inches	Pounds per ft.	Threads per inch	Depth of Casing or Liner Top Bottom	Feet of Casing	Type of Shoe	Perforation From To
<u>13"</u>		<u>10</u>		<u>132</u>	<u>baker</u>	<u>20</u> <u>132</u>

4. If above construction replaces old well to be abandoned, give location: 1/4, 1/4, 1/4
of Section Township Range; name and address of plugging contractor,
.....
.....
date of plugging 19.....; describe how well was plugged:

Handwritten signature

RA-1296-S-2

10.14.93.131

[illegible]

C. F. Smith
Licensed Well Driller

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.

FILED
APR 12 1954
OFFICE
GROUND WATER SUPERVISOR
ROSWELL, NEW MEXICO