

103651136 SWD 2/16/01

SHACKELFORD OIL COMPANY

P.O. Box 10665
Midland Texas 79702

Phone (915) 682-9784
Fax (915) 684-5026

January 22, 2001

Oil Conservation Division
P. O. Box 2088
State Land Office Building
Santa Fe, NM 87501

Certified Mail #7000 0520 0020 3897 8168

Attn: David R. Catanach

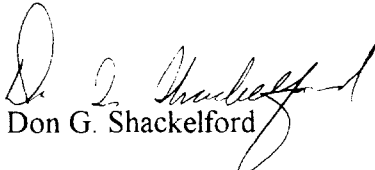
Re: Application for Saltwater Disposal
LOOMIS FEDERAL #2 (30-025-01761)
Delaware Mountain Group, Seven Rivers

Dear Mr. Catanach:

Enclosed is Shackelford Oil Company's Application For Authorization to Inject (Form C-108) and required supporting data, for salt water disposal in the referenced well bore. I trust this will fulfill the data needed for the administrative approval of Shackelford oil Company's application.

Should you need additional data or have any questions, please contact me.

Sincerely yours,


Don G. Shackelford

DGS/llh

SHACKELFORD OIL COMPANY

P. O. BOX 10665 MIDLAND TX 79702

PHONE (915) 682-9784

FAX (915) 684-5026

January 25, 2001

BUREAU OF LAND MANAGEMENT

P. O. Box 1778

Carlsbad, New Mexico 88221-1778

CERTIFIED MAIL #7000 0520 0020 3897 8144

Dear Sirs:

This letter shall constitute official notice that Shackelford Oil Company proposes to convert the Loomis Federal #2, located at 1980' FSL and 1980' FWL, Sec. 23, T-20S, R33E, Lea County, New Mexico, into a salt water disposal well with water to be disposed into the Yates and Seven Rivers Formation from 3331'-3389'.

Should you have any questions related to this application, please contact the New Mexico Oil Conservation Division with fifteen (15) days of the date of this letter.

Sincerely,



Don Shackelford

DS/llh

APPLICATION FOR AUTHORIZATION TO INJECT

I. Purpose: ☐ Secondary Recovery ☐ Pressure Maintenance ☒ Disposal ☐ Storage
Application qualifies for administrative approval? ☐ yes ☐ no

II. Operator: SHACKELFORD OIL COMPANY

Address: P. O. BOX 10665 MIDLAND, TX 79702

Contact party: DON SHACKELFORD Phone: (915) 68 2-9784

III. Well data: Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary.

IV. Is this an expansion of an existing project? ☐ yes ☒ no
If yes, give the Division order number authorizing the project _____.

V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.

* VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.

VII. Attach data on the proposed operation, including:

1. Proposed average and maximum daily rate and volume of fluids to be injected;
2. Whether the system is open or closed;
3. Proposed average and maximum injection pressure;
4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and
5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).

*VIII. Attach appropriate geological data on the injection zone including appropriate lithologic detail, geological name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such source known to be immediately underlying the injection interval.

IX. Describe the proposed stimulation program, if any.

* X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division they need not be resubmitted.)

* XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.

XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.

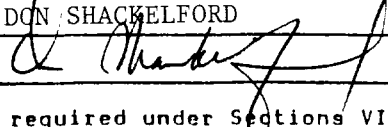
XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.

XIV. Certification

I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

Name: DON SHACKELFORD

Title: PRESIDENT

Signature: 

Date: January 25, 2001

* If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be duplicated and resubmitted. Please show the date and circumstance of the earlier submittal. _____

III. WELL DATA

A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

- (1) Lease name; Well No.; location by Section, Township, and Range; and footage location within the section.
- (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
- (3) A description of the tubing to be used including its size, lining material, and setting depth.
- (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

- (1) The name of the injection formation and, if applicable, the field or pool name.
- (2) The injection interval and whether it is perforated or open-hole.
- (3) State if the well was drilled for injection or, if not, the original purpose of the well.
- (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
- (5) Give the depth to and name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) the intended purpose of the injection well; with the exact location of single wells or the section, township, and range location of multiple wells;
- (3) the formation name and depth with expected maximum injection rates and pressures; and
- (4) a notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, P. O. Box 2088, Santa Fe, New Mexico 87501 within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

**SHACKELFORD OIL COMPANY
WATER DISPOSAL APPLICATION
WELL DATA SHEET**

III.

**A. 1. Lease Name: Loomis Federal Location: 1980' FSL & 1980' FWL
Well No.: 2 Sec. 23, T20S, R33E
Lease No.: LC070335**

**2. Casing Data: 7 5/8", 26.40#, J-55 to 1551', 565 sxs cement
9 7/8" hole, TOC 190'
4 1/2", 6.50#, J-55 to 3371', 300 sxs cement
6 3/4 & 6 1/2" hole, top of cement @ 1000'**

3. Tubing Data: 2 3/8" Plastic Coated, 4.70#, J-55 top 3330'

4. Packer Data: 4 1/2" Plastic Coated Baker R-type tension packer

B. 1. Injection formation: Yates and Seven Rivers Formation

2. Perforated Interval: 3331' - 3346' w/ 4 spf OH 3371' - 3389'

**3. Original purpose of well: To test Yates and Seven Rivers formation for
production of oil and gas in commercial quantities.**

4. Plugged back perforations: None

**5. Next higher productive zone: Rustler
Next lower productive zone: Seven Rivers**

VII.

**1. Proposed average daily rate: 1000 bwpd
Proposed maximum daily rate: 1400 bwpd**

2. The system will be a closed system.

**3. Proposed average injection pressure: 200 psi
Proposed maximum injection pressure: 1000 psi**

**4. Water to be disposed of in this well will be from wells in the same field and
producing from the same formation. Water will also be disposed in this well
from wells in the Tonto Field producing from the Delaware Formation.**

VIII.

1. Formation name: Yates and Seven Rivers

Lithology: DOLOMITE, SAND DOLOMITE W/SHALE LAMINATION

Thickness: 33'

Depth: 3331' - 3389'

2. There are no water wells permitted for use in this area to the best of our knowledge.

MARTIN WATER LABS
 SEND TO: BOB SHACKELFORD
 MIDLAND
 COMPANY WOODBINE PET
 FIELD TEAS YATES

LEASE
 COUNTY

LAB NO. CORR
 DATE REC. 1.18/89
 RR
 C L LOOMIS
 LEA NM

No. 1 WELL #1
 No. 2 WELL #2
 No. 3
 No. 4

REMARKS:

FROM ANALYSIS
 DATED 8/9/87

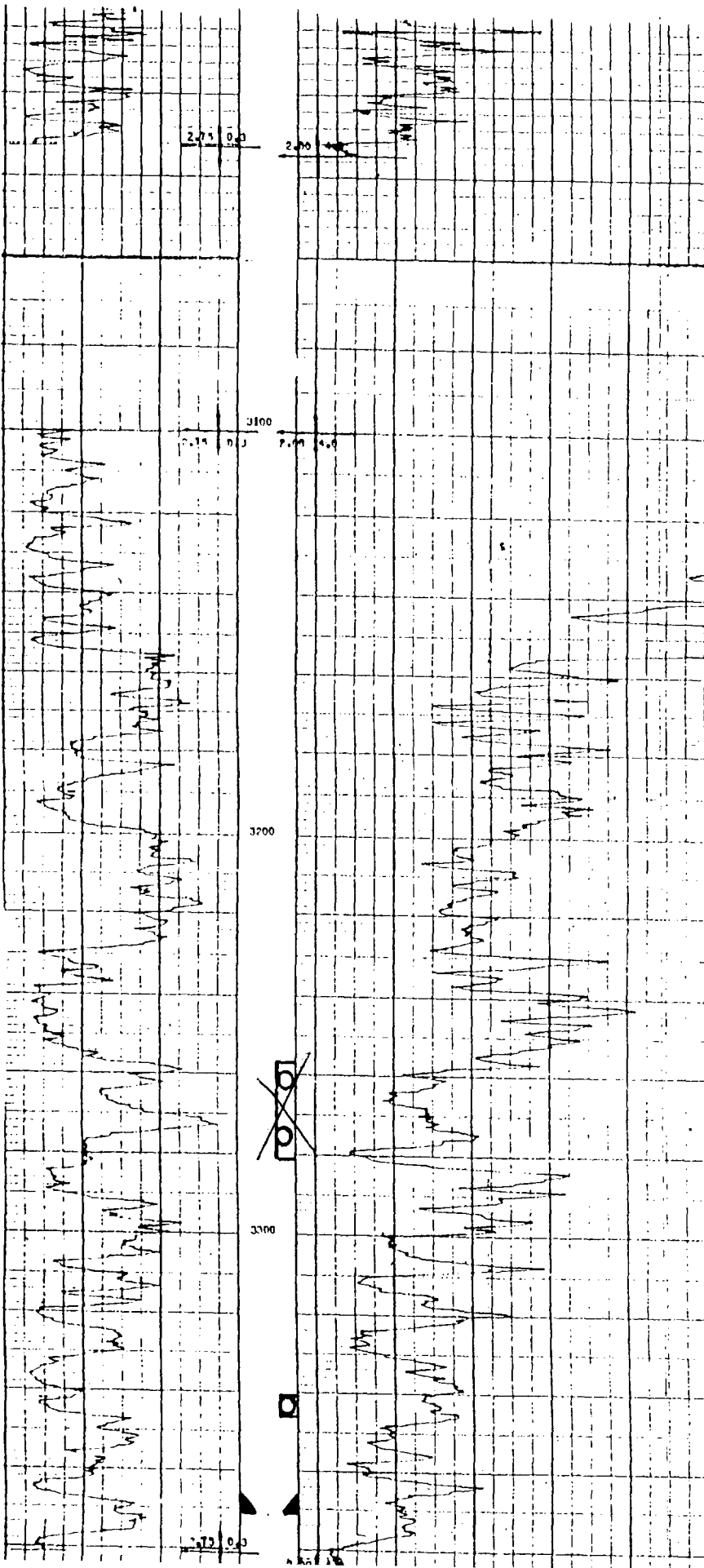
FROM ANALYSIS
 DATED 8/9/87
 LOOMIS 2-A

	#1A	#1	#2	#3	#4
SPECIFIC GRAVITY	1.0104	1.0117	1.0108	1.0116	1.0008
pH WHEN REC	7.3	6.87	7.10	7.1	7
BICARBONATE as HCO ₃	1025	1116	1043	1147	104
TOTAL HARD. as CaCO ₃	2775	3125	2825	2900	75
CALCIUM as Ca	660	732	720	740	20
MAGNESIUM as Mg	273	315	249	255	6
SODIUM &/or POTASSIUM	3067	3490	2718	2654	64
SULFATE as SO ₄	2109	2198	2087	2136	49
CHLORIDE as Cl	4545	5326	4048	3906	142
IRON as Fe	.04	0.40	4.20	.22	3.92
BARIUM as Ba	0	0	0	0	0
TOTAL SOLIDS, CALC.	11,680	13178	10865	10,832	27
HYDROGEN SULFIDE	625	687.5	310.0	1000	690
RESISTIVITY	.569	0.555	0.608	.618	.01
API OIL GRAVITY			27.2	30.3	DATE 11/3/87

50% MR
 IN OIL

WE NOTE NO SIGNIFICANT CHANGES IN EITHER OF THE ABOVE RECOVERED WATERS WHEN COMPARED WITH THE LAST ANALYSIS (88721) OF THESE WELLS.

SHACKELFORD OIL CO
LOOMIS "A" #2
KB 3628



**APPLICATION FOR SALT WATER DISPOSAL
LOOMIS FEDERAL #2
TEAS YATES, SEVEN RIVERS FIELD
LEA COUNTY, NEW MEXICO**

WELL DATE TABULATION

Operator	Well Name	Type	Date Drilled	Location	Depth	Completion
Shackelford Oil	Loomis 1-A	OIL	6/59	23-20S-33E	3,416'	3,410-16' Seven River
Shackelford Oil	South Teas	OIL	7/82	23-20S-33E	13,514'	11,596-608' in W.C. (Original) PB 5/85 8,352-450' in Bone Springs (Current)
Tenneco	Dinnin #1-A	DRY	9/59	23-20S-33E	3,433'	P & A
Bay Petroleum	Loomis #1	DRY	2/47	23-20S-33E	3,433'	P & A
Tenneco	USA Dinnin A-2	OIL	10/59	23-20S-33E	3,429'	3,418-29' Open hole P & A 12/74
Shell	Shell-Willis#1-A	DRY	2/60	22-20S-33E	3,470'	P & A
Shackelford Oil	Perry Federal #1	DRY	4/61	23-20S-33E	3,414'	P & A Then converted SWD

2-10-82

COMP. 8/25/59
LOOMIS 2-A

~~Approved~~
~~WLO~~

1550

7 ⁵/₈" 26.4 # TO 1551
565 SK CEMENT
TOC 190'

3100

TOP OF CEMENT
AT 1000' BY TEMP
SURVEY
CEMENTED W/ 300 SX
DIAMIX-REG., 270 GEL AND
18# SALT/SK.

3200

AT 3150 CHANGED FROM
RT TO CT ALSO FROM
6 ³/₄" HOLE TO 6 ¹/₂" HOLE

3300

PERFS 3257-81

PERFS 3341-46

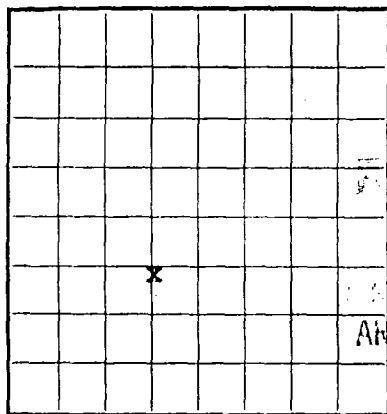
4 ¹/₂" SHOE, HOWCO, FORM PACKER, 8" A

4 ¹/₂" AT 3371

LOVE STAR, ST+C, Rg 2, EW, 9.5#, J-55, 8" A

OH 3371-3389

3400



U. S. LAND OFFICE Artesia
 SERIAL NUMBER Las Cruces 070335
 LEASE OR PERMIT TO PROSPECT

HOBBS OFFICE OCC
 UNITED STATES
 DEPARTMENT OF THE INTERIOR
 1958 SEP 13 PM 1:46
 GEOLOGICAL SURVEY

SEP 10 1959

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

SHACKELFORD OIL COMPANY

Company Tennessee Gas Transmission Company Address Box 307, Hobbs, New MexicoLessor or Tract Charles S. Loomis USA "A" Field Texas State New MexicoWell No. 2 Sec. 23 T-20-SR-33-E Meridian NMPM County LeaLocation 1980 ft. N. of 8 Line and 1980 ft. E. of W. Line of Section 23 Elevation 3628
(Derrick floor relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon
 so far as can be determined from all available records.

Signed D. W. Coffey D. W. CoffeyDate September 1, 1959 Title District Production Superintendent

The summary on this page is for the condition of the well at above date.

Commenced drilling July 30, 1959 Finished drilling August 17, 1959

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 3379 to 3389 No. 4, from _____ to _____

No. 2, from _____ to _____ No. 5, from _____ to _____

No. 3, from _____ to _____ No. 6, from _____ to _____

IMPORTANT WATER SANDS

No. 1, from _____ to _____ No. 3, from _____ to _____

No. 2, from _____ to _____ No. 4, from _____ to _____

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From—	To—	
7 5/8"	26.4	8	J-55 & N-80	1573'	Larkin Shoe & Float Collar				
4 1/2"	9.5	8	J-55	3376'	HOWCO Formation Packer & Shoe				

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
7 5/8"	1551'	565	Pump & Plug	Fresh Water	
4 1/2"	3371'	300	Pump & Plug	Salt Water	

PLUGS AND ADAPTERS

Heaving plug—Material _____ Length _____ Depth set _____

Adapters—Material _____ Size _____

MUDDIN AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
7-5/8"	1551'	565	Pump & Plug	Fresh Water	
4-1/2"	3371'	300	Pump & Plug	Salt Water	

PLUGS AND ADAPTERS

Heaving plug—Material _____ Length _____ Depth set _____
 Adapters—Material _____ Size _____

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out

TOOLS USED

Rotary tools were used from Surface feet to 3150 feet, and from _____ feet to _____ feet
 Cable tools were used from 3150 feet to 3389 feet, and from _____ feet to _____ feet

DATES

_____, 19____ Put to producing August 25, _____, 1959____
 The production for the first 24 hours was 50 barrels of fluid of which 99.7% was oil; _____%
 emulsion; 0.3% water; and 0% sediment. Gravity, °Bé. 25.7
 If gas well, cu. ft. per 24 hours _____ Gallons gasoline per 1,000 cu. ft. of gas _____
 Rock pressure, lbs. per sq. in. _____

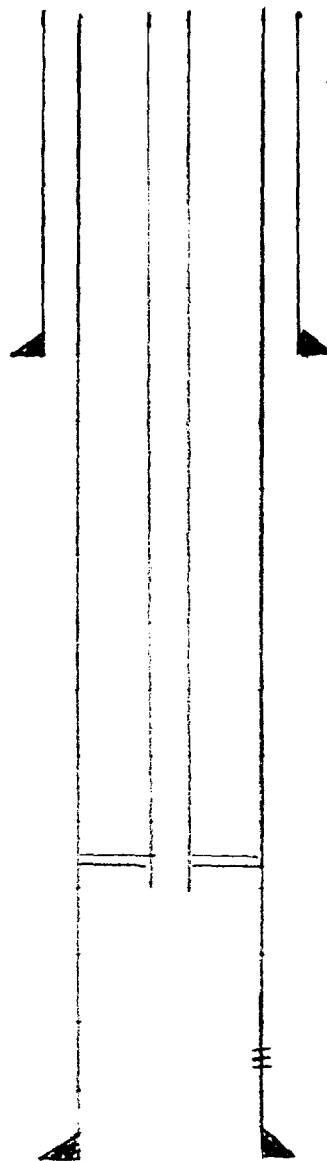
EMPLOYEES

_____, Driller _____, Driller
 _____, Driller _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	875	875	Surface Rock and Red Beds
875	1087	212	Red & Blue Shale
1087	1550	463	Shale & Anhydrite
1550	2988	1438	Anhydrite, Salt, & Potash
2988	3155	167	Anhydrite & Dolomite
3155	3195	40	Dolomite, Anhydrite, & Sand
3195	3267	72	Dolomite & Sand
3267	3278	11	Sand
3278	3389	111	Dolomite & Lime
Geological Tops			
1428			Rustler
3017			Tansill
3139			Yates
3377			Seven Rivers

SHACKFORD OIL COMPANY
PERRY FEDERAL #1



8⁵/₈" 24 #, J-SS TO
1608', 700 SX CEMENT
CEM. TO SURFACE

PERF 3255-94 +
3377-88
A/1100 GALS
1590 NEFE

2³/₈" PC, 4.7 #, J-SS
≈ 2800' W/ 4¹/₂" PACKER

TO 3448'

4¹/₂" 10.5 #, J-SS TO 3431
760 SX CEMENT
TOC 679 (CAL.)

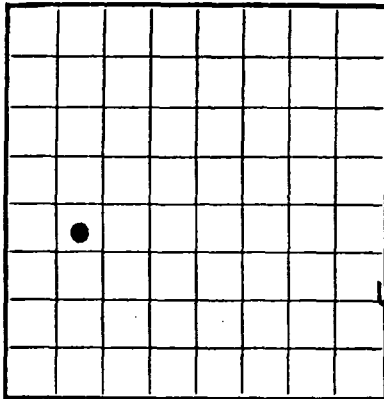
ARTESIA OFFICE COPY

Budget Bureau No. 42-R355.4.
Approval expires 12-31-60.

Form 9-330

Copy to: Roswell
NMOC(2)

U. S. LAND OFFICE New Mexico
SERIAL NUMBER LC 067265
LEASE OR PERMIT TO PROSPECT _____



LOCATE WELL CORRECTLY

RECEIVED
UNITED STATES
DEPARTMENT OF THE INTERIOR
MAY 29 1961
GEOLOGICAL SURVEY
U. S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

LOG OF OIL OR GAS WELL

Company Sid W. Richardson Inc. Address Box 1178 Monahans, Texas
Lessor or Tract Perry Federal Field Teas State New Mexico
Well No. 1 Sec. 23 T. 20S R. 13E Meridian NMPM County Lea
Location 2310 ft. N. of S. Line and 990 ft. E. of W. Line of Sec 23 Elevation 3619.0' IF
(Derrick floor relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed

[Signature]

Date May 25, 1961

Title Asst Div Off Mgr.

The summary on this page is for the condition of the well at above date.

Commenced drilling April 9, 1961 Finished drilling April 28, 1961

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 3279' to 3307' No. 4, from 3399' to 3408'
No. 2, from 3350' to 3360' No. 5, from _____ to _____
No. 3, from 3374' to 3383' No. 6, from _____ to _____

IMPORTANT WATER SANDS

No. 1, from None to _____ No. 3, from _____ to _____
No. 2, from _____ to _____ No. 4, from _____ to _____

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From—	To—	
<u>8-5/8</u>	<u>24</u>	<u>8 rd</u>	<u>JCL</u>	<u>1604.27'</u>	<u>Baker</u>	<u>None</u>	<u>None</u>		<u>Cementing</u>

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
<u>8-5/8</u>	<u>1608.17'</u>	<u>700</u>	<u>HP</u>	<u>13.0</u>	<u>Hole Full</u>

PLUGS AND ADAPTERS

Heaving plug—Material _____ Length _____ Depth set _____

See attached sheet.

TOOLS USED

Rotary tools were used from ~~0~~ feet to 1625 feet, and from _____ feet to _____ feet
 Cable tools were used from 1625 feet to 3414 feet, and from _____ feet to _____ feet

DATES

_____, 19____ Put to producing _____, 19____
 The production for the first 24 hours was _____ barrels of fluid of which _____% was oil; _____%
 emulsion; _____% water; and _____% sediment. Gravity, °Bé. _____
 If gas well, cu. ft. per 24 hours _____ Gallons gasoline per 1,000 cu. ft. of gas _____
 Rock pressure, lbs. per sq. in. _____

EMPLOYEES

Ed Carper, Driller J. F. Boatwright, Driller
B. R. Abrams, Driller _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	1520	1520	Shale & Sand
1520	1608	88	Anhydrite
1608	1670	62	Dolomite, Anhydrite & Salt
1670	1700	30	Dolomite
1700	3000	1300	Salt w/anhydrite stringers
3000	3015	15	Anhydrite
3015	3166	151	Anhydrite & Dolomite
3166	3408	242	Sand & Dolomite streaks
3408	3414	6	Dolomite - Total Depth
GEOLOGICAL TOPS			
Top Rustler Anhydrite		1520'	
Top Salt		1608'	
Base Salt		3000'	
Top Yates		3166'	
Top Seven Rivers		3408'	
Total Dpth		3414'	
SEE ATTACHED SHEET FOR PLUGGING RECORD AND ABANDONMENT.			

(OVER)

FORMATION RECORD—CONTINUED

FORM 9-520

UNCOO(S)
 COPY OF FORM

PLEASE OR RETURN TO BUREAU
 SERVICE CENTER
 U.S. BUREAU OF MINES

U.S. BUREAU OF MINES
 WASHINGTON, D.C. 20540

WILEY OFFICE COPY

ARTESIA OFFICE COPY

Form 9-331a
(Feb. 1951)

Copy to: Roswell

NMOCC(2)

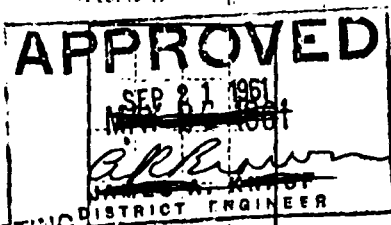
(SUBMIT IN TRIPPLICATE)

Budget Bureau No. 49-R288.4.
Approval expires 12-31-60.

Land Office **New Mexico**

Lease No. **LO 067265**

Unit **Undesignated**



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

RECEIVED

MAY 5 1961

SUNDRY NOTICES AND REPORTS ON WELLS

U. S. GEOLOGICAL SURVEY

ARTESIA, NEW MEXICO

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF
NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL	SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT
NOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY
NOTICE OF INTENTION TO ABANDON WELL	

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

May 4, 1961.

PERRY FEDERAL

Well No. **1** is located **2310** ft. from **S** line and **990** ft. from **W** line of sec. **23**

SW 1/4
(1/4 Sec. and Sec. No.)

T-20-S
(Twp.)

R-33-E
(Range)

N. M. P. M.
(Meridian)

Texas
(Field)

Lea
(County, or Subdivision)

New Mexico
(State or Territory)

The elevation of the derrick floor above sea level is **3618** ft. Elevation of KDB, the permanent measurement datum, **3619.0'**.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Rigged up to drill with cable tools; drilled to 3279; bailed dry; recovered 1 gal. mud on 1 hr. bailing test. Drilled to 3307, bailed dry; recovered 3 gal. oily mud with 1/2 pint free oil on 1 1/2 hr. bailing test. Drilled to 3383, bailed dry; recovered 5 gal. oily mud on 1 hr. bailing test. Additional bailing indicated 5 gal. oil per hr. from sand 3378-3383. At 3400', bailing test indicated 10-12 gal. oil per hr., but after drilling to 3411, a bailing test recovered 9 gal. clean oil in 2 hrs. At TD 3411, ran Lynes packers. Set top packer 3366-3370, bottom packer 3398-3402. Acidized below bottom packer with 250 gal. acid. Swabbed back oil load; recovered no acid water or additional fluid. Re-acidized with 2500 gal. Swabbed load, then recovered sulphur water at a rate of about 3 bbls. per hour. Closed tool to shut in bottom zone; treated between packers with 250 gal. acid. Swabbed dry. Pulled packers, made 3' of hole to final TD 3414. Bailed an increased volume of sulphur water. TD reached 5-1-61. Ran tubing, spotted 100 sx. at 3404. Checked top at 3135. Spotted 75 sx. w/ 6 lbs. salt per sack at 3105. Filled above plug with 35 sec. vis. mud. Spotted 75 sx. w/ 6 lbs. salt per sack at 1711. Spotted 15 sx. at 45' to fill to surface. Installed marker. P&A 5-3-61.

Company **SID W. RICHARDSON INC.**

Address **Box 1178**

Monahans, Texas

By *Walter D. Powers*
Walter D. Powers
Title **Asst. Div. Mgr.**

Woodbine Petroleum

Loomis #1-A

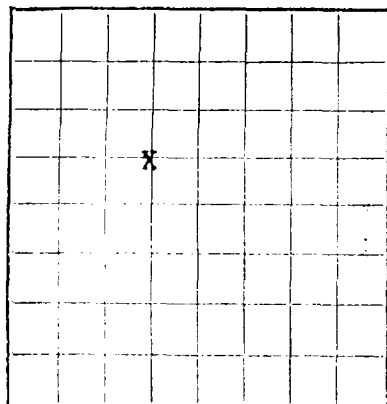
top of cement 890'
(temp survey)

7 5/8" 26.4 #/ft J-55 @ 1449'
(cont to surface)

2 3/8" tubing to 3379'
5/8" rods

5 1/2" 14 #/ft J-55 @ 3390'

O.H. 3390 - ~~3426~~
3425'



RECEIVED

JUL 6 1959

U. S. GEOLOGICAL
ARTESIA, NEW MEX.

UNITED STATES

DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

U. S. LAND OFFICE ArtesiaSERIAL NUMBER Las Cruces 070335

LEASE OR PERMIT TO PROSPECT

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

STACKELFORD OIL COMPANY

Company Tennessee Gas Transmission Company Address P. O. Box 307, Hobbs, New MexicoLessor or Tract Chas. S. Loomis USA "A" Field Teas State New MexicoWell No. 1 Sec. 23 T20-S R33-E Meridian NMPM County LeaLocation 1980 ft. XX of N. Line and 1980 ft. XX of W. Line of Section 23 Elevation 3605
(Vertical floor relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed D. C. LoomisDate June 30, 1959 Title District Production Supt.

The summary on this page is for the condition of the well at above date.

Commenced drilling May 10, 1959 Finished drilling June 9, 1959

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 3410 to 3416 No. 4, from _____ to _____

No. 2, from _____ to _____ No. 5, from _____ to _____

No. 3, from _____ to _____ No. 6, from _____ to _____

IMPORTANT WATER SANDS

No. 1, from _____ to _____ No. 3, from _____ to _____

No. 2, from _____ to _____ No. 4, from _____ to _____

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From—	To—	
7 5/8"	26.4#	8 Rd	J-55	1449'	Baker Shoe				
					& 1" Collar				
5 1/2"	14#	8 Rd	J-55	3386'	Halliburton Form				
					Pk. Shoe & Baffle				
					Collar				

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
7 5/8"	1449	350	Pump & Plug	Fresh Water	
5 1/2"	3390	285	Pump & Plug	Salt Water	

PLUGS AND ADAPTERS

Heaving plug—Material _____ Length _____ Depth set _____

Adapters—Material _____ Size _____

Casing	Weight set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
7 5/8"	1449	350	Pump & Plug	Fresh Water	
5 1/2"	3390	285	Pump & Plug	Salt Water	

PLUGS AND ADAPTERS

Heaving plug--Material Length Depth set

Adapters--Material Size

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out

TOOLS USED

Rotary tools were used from surface feet to 3120 feet, and from feet to feet

Cable tools were used from 3120 feet to 3416 feet, and from feet to feet

DATES

....., 19..... Put to producing June 21, 1959

The production for the first 24 hours was 47.7 barrels of fluid of which 99.2% was oil;% emulsion; 0.8% water; and 0% sediment. Gravity, °Bé. 26.0

If gas well, cu. ft. per 24 hours Gallons gasoline per 1,000 cu. ft. of gas

Rock pressure, lbs. per sq. in.

EMPLOYEES

....., Driller , Driller

....., Driller , Driller

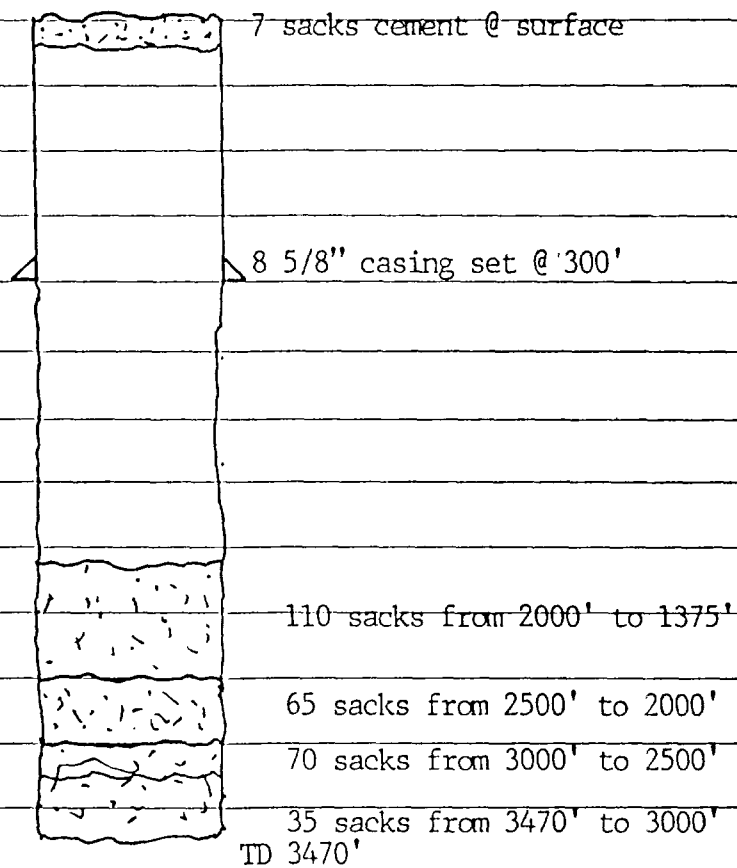
FORMATION RECORD

FROM--	TO--	TOTAL FEET	FORMATION
0	650	650	Surface Rock & Red Rock
650	1190	540	Red Bed & Anhydrite
1190	1430	240	Red Rock & Shale
1430	1540	110	Anhydrite
1540	1695	155	Anhydrite, Lime & Gyp
1695	2320	625	Anhydrite, Salt & Potash
2320	2630	310	Salt
2630	2842	212	Salt & Potash
2842	3002	160	Anhydrite, Salt & Dolomite
3002	3235	233	Dolomite & Anhydrite & Sand
3235	3391	156	Dolomite & Sand
3391	3416	25	Dolomite & Lime
Geological Tops			
1428			Rustler
3033			Tansill
3161			Yates
3410			Seven Rivers

[OVER]

16-48094-3

Shell
Wills Federal #1



(SUBMIT IN TRIPLICATE)

Land Office **New Mexico**

UNITED STATES

HOBBS OFFICE NM 01130-C

DEPARTMENT OF THE INTERIOR

Unit **Federal**

GEOLOGICAL SURVEY

1960 FEB 1 AM 7:33

RECEIVED

JAN 29 1960

SUNDRY NOTICES AND REPORTS ON WELLS

		ARTESIA, OFFICE
NOTICE OF INTENTION TO DRILL	X	SUBSEQUENT REPORT OF WATER SHUT-OFF
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL		SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY
NOTICE OF INTENTION TO ABANDON WELL		

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

Shell Wells Federal TA

January 7, 1960

Well No. **1** is located **1980** ft. from **1000** line and **660** ft. from **(E)** line of sec. **22****NE 1/4 SE 1/4, Sec. 22****20S****33E****NMPM**

(1/4 Sec. and Sec. No.)

(Twp.)

(Range)

(Meridian)

Texas**Lea County****New Mexico**

(Field)

(County or Subdivision)

(State or Territory)

The elevation of the derrick floor above sea level is **3630** ft. **estimated**

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

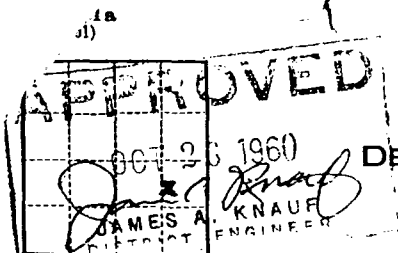
We propose to drill Shell Wells Federal TA well No. 1 as a 3480-foot Yates-Seven Rivers test with Rotary Tools as follows:

Drill 11" hole to 300' and cement 32#, 8 5/8" casing w/300 ex. Circulate cement.
Drill 7 7/8" hole to 3480' and cement 15.5#, 5 1/2" casing w/350 ex. cement.

(If above is unsatisfactory, we will follow cementing and casing program as required by the U. S. G. S.)

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company **Shell Oil Company**Address **Box 845****Roswell, New Mexico**By **R. A. Lowery**Original Signed By
R. A. LOWERYJAN 11 1960
U. S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICOTitle **District Exploitation Engineer**



(SUBMIT IN TRIPLICATE)

 UNITED STATES
 DEPARTMENT OF THE INTERIOR
 GEOLOGICAL SURVEY
Land Office New MexicoLease No. NN-01130-CUnit Federal

RECEIVED

NOV 2 1960

SUNDRY NOTICES AND REPORTS ON WELLS, U. S.

ARTESIAN OFFICE

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL	SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT	☒
NOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL		

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

February 18, 1960

Shell Wells Federal TA
 Well No. 1 is located 1980 ft. from S line and 660 ft. from E line of sec. 22
N2/4, SE/4, Sec. 22. 20 S 33 E NMPM
 (1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)
Texas Lee New Mexico
 (Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 3630 ft. est.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

*Spotted cement plugs as follows:

3470' - 3000' with 35 sacks Incor cement + 40% Diacel D + 1% CaCl₂ + 74# salt/sack cement.

3000' - 2500' with 70 sacks Incor cement. Mixed with above additives.

2500' - 2000' with 65 sacks Incor cement. Mixed with above additives.

2000' - 1375' with 110 sacks Incor cement. Mixed with above additives.

Top of 8-5/8" casing with 7 sacks Incor cement.

Erected prescribed marker. Well P&A February 17, 1960.

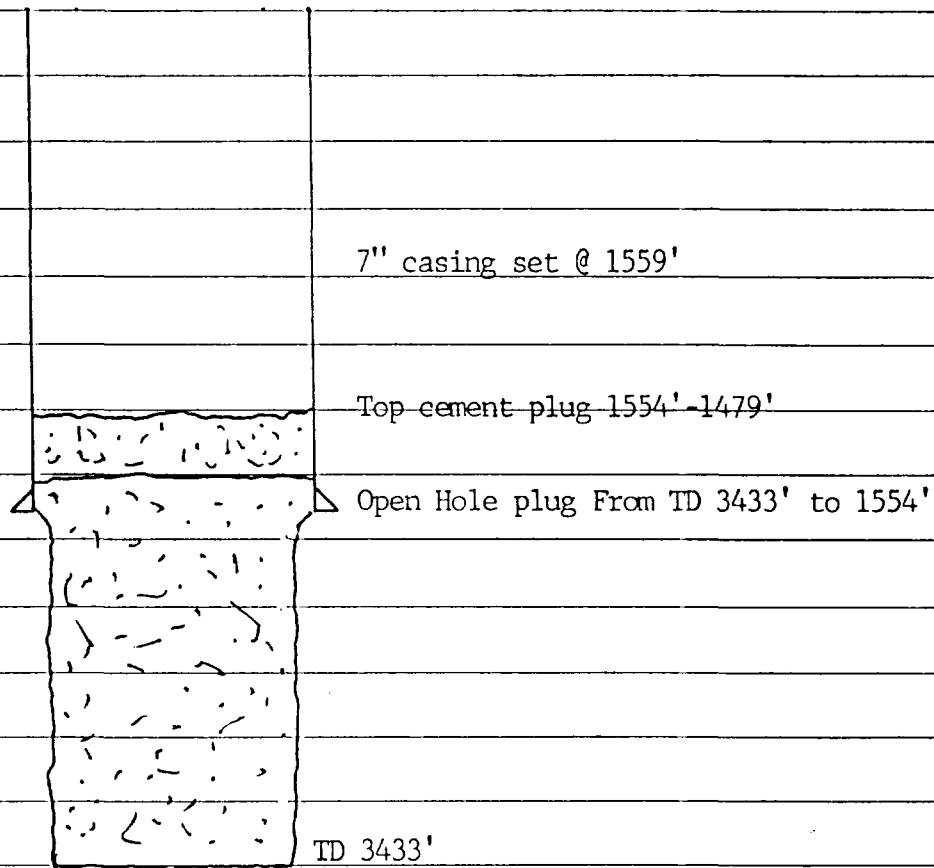
*Cement was circulated out at top of each plug providing a solid plug from T.D. to 1375'.

Verbal approval obtained February 14, 1960 from Mr. James Knauf of U.S.G.S.

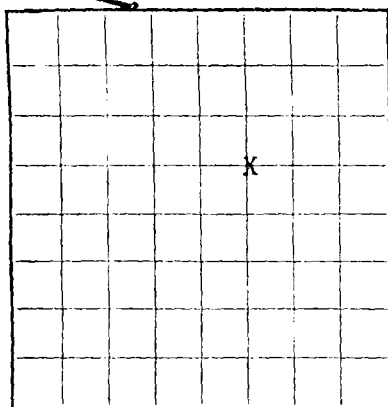
I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company Shell Oil CompanyAddress Box 845Roswell, New MexicoBy R. L. ElkinsTitle Division Mechanical Engineer

Tenneco Oil Company
USA Bernice Dinnin "A" #1
P&A 9/59



AS 11-17-59



LOCATE WELL CORRECTLY

 U. S. LAND OFFICE Artesia
 Hobbs Office 000 NM 0964
 LEASE OR PERMIT TO PROSPECT G

 1959 SEP 25 AM 10:10
 UNITED STATES

DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company Tennessee Gas Transmission Company Address P. O. Box 307, Hobbs, New MexicoLessor or Tract USA Bernice Dinnin "A" Field Texas State New MexicoWell No. 1 Sec. 23 T. 20-N R. 33-E Meridian NMPM County LeaLocation 1980 ft. N of N Line and 1980 E of E Line of Section 23 Elevation 3627'
(Derrick floor relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

ORIGINAL SIGNED BY:
Signed J. B. BLANKENSHIP, Jr.Date September 17, 1959Title District Office Supervisor

The summary on this page is for the condition of the well at above date.

Commenced drilling August 9, 19 59 Finished drilling September 9, 19 59

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 3395 to 3433 No. 4, from _____ to _____

No. 2, from _____ to _____ No. 5, from _____ to _____

No. 3, from _____ to _____ No. 6, from _____ to _____

IMPORTANT WATER SANDS

No. 1, from _____ to _____ No. 3, from _____ to _____

No. 2, from _____ to _____ No. 4, from _____ to _____

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From—	To—	
<u>7"</u>	<u>20 & 26</u>	<u>8RD</u>	<u>J-55</u> <u>S-95</u>	<u>1559'</u>	<u>Reactor Shoe &</u> <u>Float Collar</u>				

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
<u>7"</u>	<u>1554'</u>	<u>550</u>	<u>Pump & Plug</u>	<u>Fresh Water</u>	

PLUGS AND ADAPTERS

Heaving plug—Material _____ Length _____ Depth set _____

Adapters—Material _____ Size _____

SHOOTING RECORD

Shot	Depth	Time	Result	Remarks
------	-------	------	--------	---------

			Mud gravity	Amount of mud used
554	550	Pump & Plug	Fresh Water	

PLUGS AND ADAPTERS

ing plug—Material _____ Length _____ Depth set _____
 pters—Material _____ Size _____

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out

TOOLS USED

Rotary tools were used from Surface feet to 3195 feet, and from _____ feet to _____ feet
 Cable tools were used from 3195 feet to 3433 feet, and from _____ feet to _____ feet

DATES

Plug & Abandon _____, 1959 Put to producing _____, 19_____
September 9,
 The production for the first 24 hours was 75 barrels of fluid of which 1 % was oil; _____ %
 emulsion; 98 % water; and 1 % sediment. Gravity, °Bé. _____
 If gas well, cu. ft. per 24 hours _____ Gallons gasoline per 1,000 cu. ft. of gas _____
 Rock pressure, lbs. per sq. in. _____

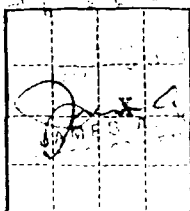
EMPLOYEES

_____, Driller _____, Driller
 _____, Driller _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	250	250	Surface Lime & Red Bed
250	1035	785	Red Bed & Shale
1035	1367	332	Anhydrite & Shale
1367	1555	188	Anhydrite
1555	2850	1295	Salt & Anhydrite
2850	3029	179	Salt, Anhydrite, & Gyp
3029	3190	161	Anhydrite & Lime
3190	3255	65	Lime
3255	3290	35	Sand & Lime
3290	3390	100	Dolomite & Lime
3390	3433 TD	43	Sand, Lime, & Dolomite
<u>Geological Tops</u>			
1427	Russler		
3050	Tansill		
3190	Yates		
3424	Seven Rivers		

U. S. G. S. Form 100-331a
Feb. 1951)



(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Budget Bureau No. 42-R358.4
Approval expires 12-31-60.

Land Office **Artesia**
Lease No. **NM 0964**
Unit **G**

RECEIVED
NOV 2 1960

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....	SUBSEQUENT REPORT OF WATER SHUT-OFF.....	
NOTICE OF INTENTION TO CHANGE PLANS.....	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.....	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF.....	SUBSEQUENT REPORT OF ALTERING CASING.....	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL.....	SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR.....	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....	SUBSEQUENT REPORT OF ABANDONMENT.....	X
NOTICE OF INTENTION TO PULL OR ALTER CASING.....	SUPPLEMENTARY WELL HISTORY.....	
NOTICE OF INTENTION TO ABANDON WELL.....		

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

USA **Bernice Dinnin "A"**

September 17, 19**59**

Well No. **1** is located **1980** ft. from **{N}** line and **1980** ft. from **{E}** line of sec. **23**

NE/4, Section 23
(Sec. and Sec. No.)

20-N
(Twp.)

33-E
(Range)

NMPM
(Meridian)

Texas
(Field)

Lea
(County or Subdivision)

New Mexico
(State or Territory)

The elevation of the derrick floor above sea level is **3627** ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

1. Plugged open hole with solid cement from TD 3433' to 1554'.
2. Plugged open hole and surface casing with solid cement from 1554'-1479', 75' into 7" surface pipe.
3. Set 4" vertical marker 5' above ground level in 7" surface pipe with 50' (top cement plug).

RECEIVED
U. S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company **Tennessee Gas Transmission Company**

Address **P. O. Box 307**

Hobbs, New Mexico

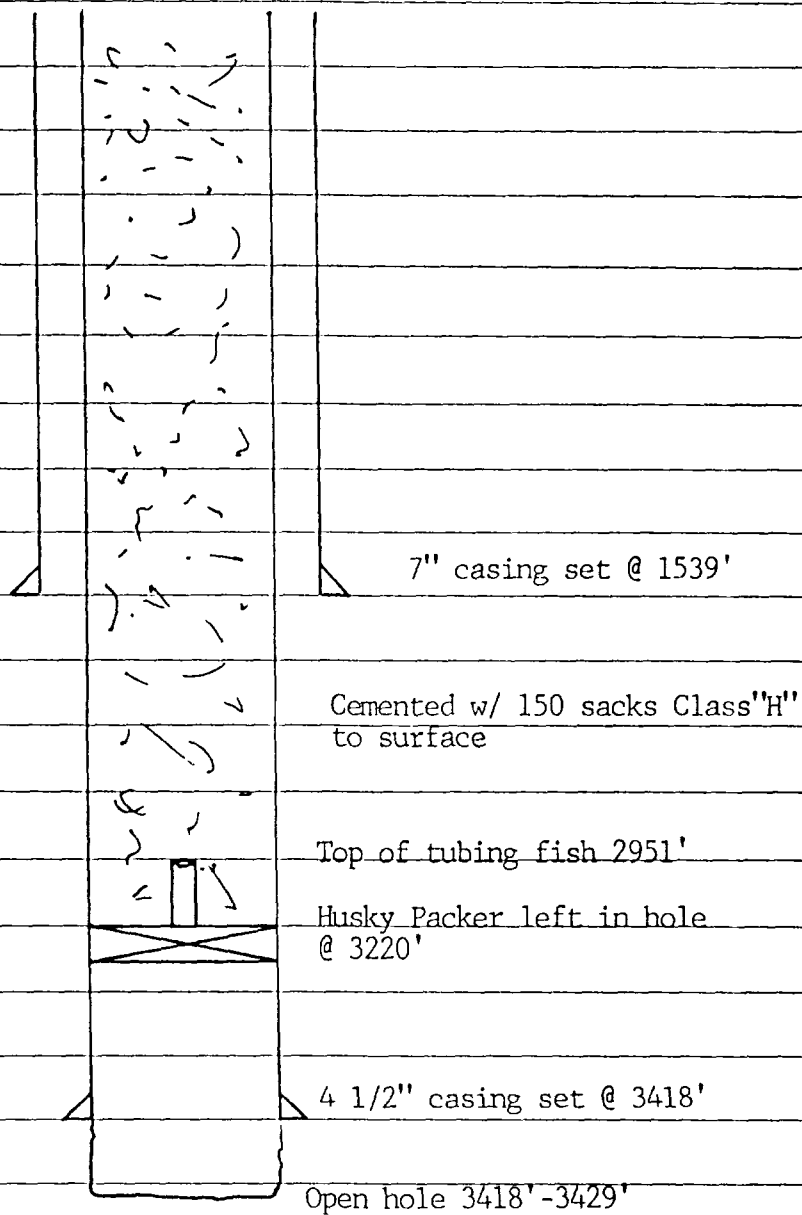
Original Signed By:

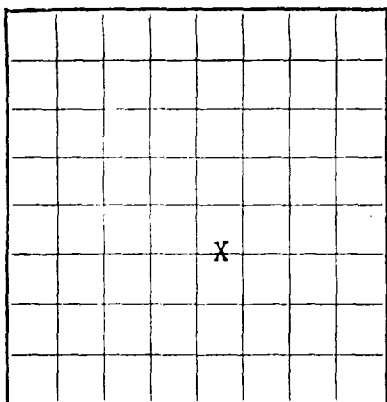
D. W. COFFEY

By **D. W. Coffey**

Title **District Production Superintendent**

Tenneco Oil Company
Bernice Dennin "A" #2
P&A 12-4-74





LOCATE WELL CORRECTLY

UNITED STATES 53
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company Tennessee Gas Transmission Company Address P. O. Box 307, Hobbs, New Mexico
Lessor or Tract USA Bernice Dinnin "A" Field Teas State New Mexico
Well No. 2 Sec. 23 T. 20S R. 33E Meridian NMPM County Lea
Location 1980 ft. N of S Line and 2310 ft. E of E Line of Section 23 Elevation 3627
(Derrick floor relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed D. W. Coffey D. W. CoffeyDate October 22, 1959Title District Production Superintendent

The summary on this page is for the condition of the well at above date.

Commenced drilling 9/13/, 1959 Finished drilling 10/5, 1959

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 3380 to 3429 No. 4, from _____ to _____
No. 2, from _____ to _____ No. 5, from _____ to _____
No. 3, from _____ to _____ No. 6, from _____ to _____

IMPORTANT WATER SANDS

No. 1, from _____ to _____ No. 3, from _____ to _____
No. 2, from _____ to _____ No. 4, from _____ to _____

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From—	To—	
7"	20#	8	H-40	1596	Larkin				Surface
4 1/2"	26#		J-55		Texas Pattern				
4 1/2"	9.5	8	J-55	3485	Howco				Oil string

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
7"	1539	240	pump & plug	Native	Fresh Water
4 1/2"	3418	250	pump & plug	Native	Salt Water

PLUGS AND ADAPTERS

Heaving plug—Material _____ Length _____ Depth set _____
Adapters—Material _____ Size _____

7"	1539	240	pump & plug	Native	Fresh Water
4 1/2"	3418	250	pump & plug	Native	Salt Water

PLUGS AND ADAPTERS

Heaving plug--Material Length Depth set

Adapters--Material Size

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out

TOOLS USED

Rotary tools were used from 0 feet to 3190 feet, and from feet to feet

Cable tools were used from 3190 feet to 3429 TD feet, and from feet to feet

DATES

....., 19..... Put to producing 10/19, 1959..

The production for the first 24 hours was 88 barrels of fluid of which 33% was oil;% emulsion; 65% water; and 2% sediment. Gravity, °Bé. 26.1°

If gas well, cu. ft. per 24 hours Gallons gasoline per 1,000 cu. ft. of gas

Rock pressure, lbs. per sq. in.

EMPLOYEES

....., Driller Driller

....., Driller Driller

FORMATION RECORD

FROM--	TO--	TOTAL FEET	FORMATION
0	250	250	Surface Lime & Red Bed
250	1035	785	Red Bed & Shale
1035	1367	332	Anhydrite & Shale
1367	1555	188	Anhydrite
1555	2850	1295	Salt & Anhydrite
2850	3029	179	Salt, Anhydrite, & Gyp
3029	3190	161	Anhydrite & Lime
3190	3255	65	Lime
3255	3290	35	Sand & Lime
3290	3390	100	Dolomite & Lime
3390	3429 TD	43	Sand, Lime, & Dolomite
Geological Tops			
1433	Rustler		
3048	Tansill		
3191	Yates		
3416	Seven Rivers		

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

FORM 1000
SUBMIT IN TRI
(Other instruction
verse side)

FE
re

Form approved.
Budget Bureau No. 42-R1421

5. LEASE DESIGNATION AND SERIAL NO.

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL ☐ GAS WELL ☒ OTHER Injection SWD

2. NAME OF OPERATOR
Tenneco Oil Company

3. ADDRESS OF OPERATOR
1860 Lincoln Street, Denver, Colorado 80203

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface

1980 FSL and 2310 FEL

JAN 6 1975

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Bernice Dennin "A"

9. WELL NO.
2

10. FIELD AND POOL, OR WILDCAT
Teas

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

Sec. 23, T20S, R33E

12. COUNTY OR PARISH
Lea

13. STATE
New Mexico

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

PULL OR ALTER CASING

FRACTURE TREAT

MULTIPLE COMPLETION

SHOOT OR ACIDIZE

ABANDON*

REPAIR WELL

CHANGE PLANS

(Other)

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

REPAIRING WELL

FRACTURE TREATMENT

ALTERING CASING

SHOOTING OR ACIDIZING

ABANDONMENT*

(Other)

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Casing: 7" Set @ 1539'

4½" Set @ 3418'

TD: 3429 3418'-3429 Open Hole

Procedure:

1. MIRU PU
2. Tried to release retrievable Husky Packer Set @ 3220' and tubing parted @ 1708'
3. Went in hole with overshot and caught fish
4. Went down tubing with chemical cutter and cut off tubing @ 2951'. Pulled chemical cutter out of tubing.
5. Pulled tubing out of hole to overshot. Removed overshot. Removed overshot and replaced split collar. Ran tubing back in hole to 2951'.
6. Cemented hole with 150 sacks class H cement from 2951' to surface.
7. Removed well head and installed dry hole marker.
8. Fill cellar and cleaned up location, fill pit.

2000 PTH 12-4-74

18. I hereby certify that the foregoing is true and correct

SIGNED D. P. Crawford

TITLE Senior Production Clerk

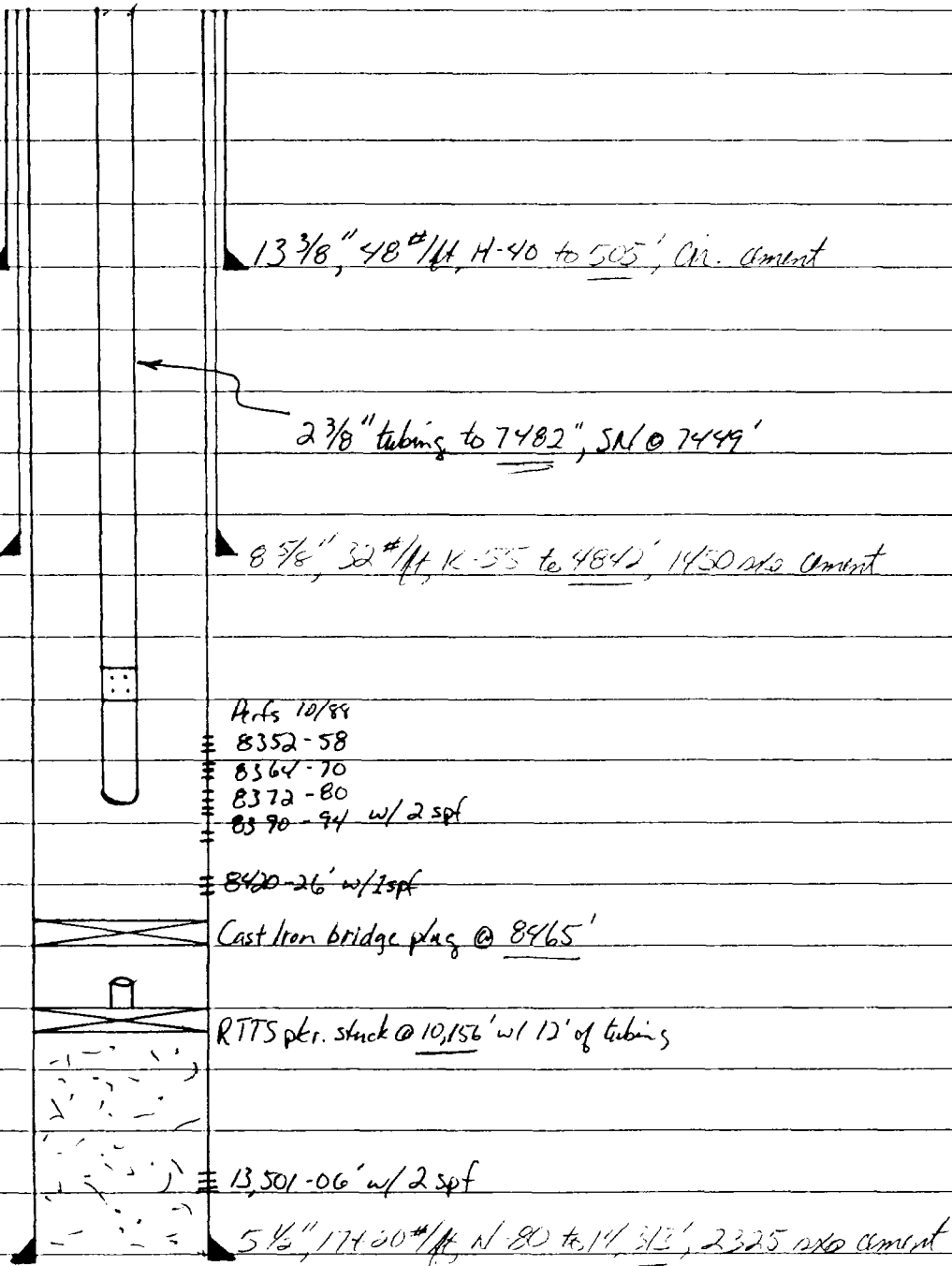
DATE January 2, 1975

(This space for Federal or State office use)

APPROVED BY
CONDITIONS OF APPROVAL, IF ANY:

TITLE

Woodbine Petroleum
South Teas-Federal #1



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE-

(See other in-
structions on
reverse side)Form approved.
Budget Bureau No. 42-R855.5.

5. LEASE DESIGNATION AND SERIAL NO.

NM 29704

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

South Teas Federal

9. WELL NO.

10. FIELD AND POOL, OR WILDCAT

Wildcoat

11. SEC., T., R., M., OR BLOCK AND SURVEY
OR AREA

Sec. 23, T20S, R33E

12. COUNTY OR
PARISH

Lea

13. STATE

New Mexico

1a. TYPE OF WELL:

OIL
WELL ☒GAS
WELL ☐DRY ☐Other ☐

DEC 20 1982

b. TYPE OF COMPLETION:

NEW
WELL ☒WORK
OVER ☐DEEP-
EN ☐PLUG
BACK ☐DIFF.
REVR. ☐Other ☐

2. NAME OF OPERATOR

Julian Arnd

3. ADDRESS OF OPERATOR

P. O. Box 17360, Fort Worth, TX 76102

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*

At surface 1980' FNL & 2310' FEL

At top prod. interval reported below 11,596'

At total depth

13,519 PBTD

14. PERMIT NO.

DATE ISSUED

15. DATE SPUDDED

2-27-82

16. DATE T.D. REACHED

7-10-82

17. DATE COMPL. (Ready to prod.)

--

18. ELEVATIONS (OF, RKB, RT, GR, ETC.)*

3617' GR

19. ELEV. CASINGHEAD

3616'

20. TOTAL DEPTH, MD & TVD

14,316'

21. PLUG, BACK T.D., MD & TVD

13,519' PBTD

22. IF MULTIPLE COMPL.,
HOW MANY*

No

23. INTERVALS
DRILLED BY

Rotary

ROTARY TOOLS

Rotary

CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*

Wolfcamp - 11,596' to 11,608'

25. WAS DIRECTIONAL
SURVEY MADE

No

26. TYPE ELECTRIC AND OTHER LOGS RUN

Dual Laterlog, Compensated Density, Compensated Neutron, Simul. G/R

27. WAS WELL CORRED

No

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	AMOUNTING RECORD "A"	AMOUNT FULLED
13 3/8"	54.5# J55	621'	17 1/2"	255 sks Lite w/250 sks "C"	
8 5/8"	32# J55	4841.88'	12 1/4"	1200 sks Lite w/250 sks "C"	
5 1/2"	17# N80		7 7/8"	1725sks "H" + 2% CA CL + 2% AFS	
5 1/2"	20# N80	14,313'		600 sks Lite "C", 150sks "C"	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)
N/A				

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 3/8"	11,595'	11,565'

31. PERFORATION RECORD (Interval, size and number)

13890 to 13908 - 1 shot each 2'
13524 to 13540 - 1 shot each 2'
11598 to 11605 - 2 shots per foot

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
Exhibit "B"	

33. PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)	
11-5-82		Flowing				testing	
DATE OF TEST	HOURS TESTED	CHOKED SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
12-23-82	24		→	12		1	
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—ACCEPTED FOR RECORD—BBL.		OIL GRAVITY-API (CORR.)	
		→	12	(ORIG. SCD) DAVID R. GLASS		44.0°	
24. DISPOSITION OF GAS (Hold used for fuel vented etc.)				TEST WITNESSED BY			

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

Vented

35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

Nancy Holley

TITLE

Production Agent

DATE

12-15-82

*(See Instructions and Spaces for Additional Data on Reverse Side)

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 83, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES: SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DEPTH-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION (SEN. TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES)			38. GEOLOGIC MARKERS			
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEAS. DEPTH	TRUE VERT. DEPTH
Yates.	3212'	3430'	Sand, anhydrite, dolomite	Cowden Anhydrite	1450	
Capitan	3515'	5550'	Dolomite	Yates	3070	
Delaware Mtn.	5640'	6395'	Sand	Capitan	3470	
Group				Delaware Mtn.		
Bone Springs	7625'	7660'	Dolomite, Sand	Group	5635	
"	7730'	7930'	"	Bone Springs	6395	
"	7990'	8090'	"	Wolfcamp	10889	
"	8350'	8430'	"	Strawn	12475	
"	9260'	9310'	"	Morrow	12928	
Wolfcamp	11598'	11606'	Limestone	Barnett	13930	
Strawn	12470'	12487'	"			
Morrow	13445'	13473'	Sand			
"	13500'	13542'	"			

ACID RECORD

13890' - 13908' - 250 gals. acetic acid

13292' - 13543' - 200 gals. acetic acid, 2000 gals MS acid 10%

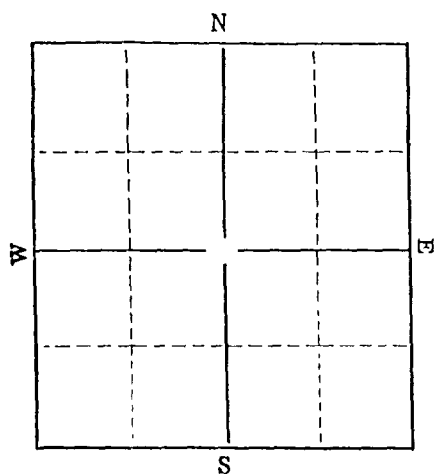
11596' - 11608' - 1000 gals DS acid 20%, 2000 gals. Westpad A

11596' - 11608' - 6000 gals. DS acid 20%, 5000 Westpad A 20% retarded acid.

CEMENTING RECORD

- 13 3/8" Casing - Cemented with 255 sacks Western Lite & 250 sacks class "C"
Circulated
- 8 5/8" Casing - Cemented 1st stage with 1200 sacks pace setter lite($\frac{1}{4}$ #
permacheck/sack & 5# salt/sack) and 2nd stage with 250
sacks class "C" neat - did not circulate - set RTTS packer
and cement with 1400 sacks thick-o-mite - did not circulate -
finish cementing with 4400 sacks of Pacesetter lite -
Circulated.
- 5 $\frac{1}{2}$ " Casing - Cemented first stage with 1725 sacks class "H" + 2% Cal. Chloride
+ 2% AFS - DV tool @ 8,036'. Second stage with 600 sacks
Pacesetter lite class "C" + 150 sacks premium Class "C"
Circulated.

NEW MEXICO OIL CONSERVATION COMMISSION



Company Bay Petroleum Co.
 Farm Name La Comia Well No. 1
 Sec. 23 Twp. 20 Range 33 County Ala.
 Feet from Line: 660 N. S. E. 1980 W.
 Elevation 3612 Method _____
 Contractor _____
 Spudded 12-7-46 Completed 2-4-47

AMOUNT CASING & CEMENTING RECORD

Size	Feet	Inches	Sax Cement

TUBING RECORD

PACKER _____

ACID RECORD Gals.

TA	TG
TX	TSA
TCA	TGI
BX	TYo
TY	TABo
TSR	TPenn
Top Pay	TQ
	TOrd

SHOOTING RECORD

No. of Quarts	From	To
S/	S/	S/
S/	S/	S/
S/	S/	S/

Date		Date	
12-4	Rigging the Spudder		
12-11	Ø 685 S 4		
12-18	Ø 1518 Q		
12-31	Ø 2510 X		
1-8	Ø 3109 L		
1-15	Ø 3160 L Rigging up Cable Tool Rig		
1-22	Ø 3162 L		
1-29	Ø 3369 L		
2-5	Ø 3433 L P 4 A		

FOLD ! MARK

PLUGS AND ADAPTERS

Heaving plug—Material	Length	Depth set
Adapters—Material	Size	

SHOOTING RECORD

[illegible]

TOOLS USED

Rotary tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

Cable tools were used from 0 feet to 3460' TD, and from _____ feet to _____ feet

DATES

Put to producing _____, 19____

The production for the first 24 hours was _____ barrels of fluid of which _____ % was oil; _____ % emulsion; 100 % water; and _____ % sediment. Gravity, °Bé. _____

If gas well, cu. ft. per 24 hours Gallons gasoline per 1,000 cu. ft. of gas

Rock pressure, lbs. per sq. in.

EMPLOYEES

EMPLOYEES			
D. E. Huff	Driller	J. W. Whaley	Driller

L. H. Horner	Driller		Driller
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FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	1400	1400	Top of Rustler Anhydrite
1400	3025	1625	Base of Salt
3025	3202	177	Top of Yates
3202	3460	258	T.D.

FORMATION RECORD—Continued