

CHECKLIST for ADMINISTRATIVE INJECTION APPLICATIONS

641

Operator: MR DRILLING Co. Well: WILLS FEDERAL Well No. 1

Contact: CARRIS HISEL Title: — Phone: 915-943-2501

DATE IN 7-11-96 RELEASE DATE 7-26-96 DATE OUT 8-27-96

Proposed Injection Application is for: WATERFLOOD Expansion Initial

Original Order: R- — Secondary Recovery Pressure Maintenance

SENSITIVE AREAS

X SALT WATER DISPOSAL Commercial Well

WRRP Capitan Reef

Data is complete for proposed well(s)? — Additional Data Req'd —

AREA of REVIEW WELLS

14 Total # of AOR

1 # of Plugged Wells

— Tabulation Complete

— Schematics of P & A's

— Cement Tops Adequate

— AOR Repair Required

552 4515

INJECTION FORMATION

Injection Formation(s) LATES 3221-3367' Compatible Analysis —

Source of Water or Injectate —

PROOF of NOTICE

✓ Copy of Legal Notice

✓ Information Printed Correctly

✓ Correct Operators

✓ Copies of Certified Mail Receipts

— Objection Received

— Set to Hearing — Date

NOTES: —

APPLICATION QUALIFIES FOR ADMINISTRATIVE APPROVAL? —

COMMUNICATION WITH CONTACT PERSON:

1st Contact: X Telephoned

Letter 8-27-96 Date

Nature of Discussion Need AOR CONST. INFO + P & A SCHEMATIC.

2nd Contact: — Telephoned

Letter — Date

Nature of Discussion —

3rd Contact: — Telephoned

Letter — Date

Nature of Discussion —

7/26/96

APPLICATION FOR AUTHORIZATION TO INJECT

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

Operator: MR Drilling Company

Address: P.O. Box 687 Monahans, TX 79756

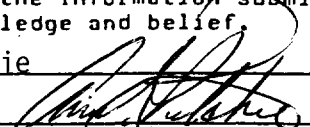
Contact party: Chris Hisel Phone: (915) 943-2501

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: Ann E. Ritchie Title: Regulatory Agent

Signature:  Date: 7-1-96

- * 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.

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.

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

- (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.
- (3) the formation name and depth with expected maximum injection rates and pressures; and
- (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;
- (1) The name, address, phone number, and contact party for the applicant;
- where an application is subject to administrative approval, a proof of publication must be published. 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:
- 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.

XIV. PROOF OF NOTICE

- (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.
- (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.
- (3) State if the well was drilled for injection or, if not, the original purpose of the well.
- (2) The injection interval and whether it is perforated or open-hole.
- (1) The name of the injection formation and, if applicable, the field or pool name.
- 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.
- 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.
- (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.
- (3) A description of the tubing to be used including its size, lining material, and setting depth.
- (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.
- (1) Lease name; Well No.; location by Section, Township, and Range; and footage location within the section.
- The data must be both in tabular and schematic form and shall include:
- A. The following well data must be submitted for each injection well covered by this application.

III. WELL DATA

MR Drilling
Wills Federal, Well #1
Section 34, T-26-S, R-37-E
Lea County, New Mexico

Call
RAY MADDOX
w/ VERBAC
915-684-6381

** ||| **

Well Data:

A

- (1) Operator: MR Drilling
Lease Name: Wills Federal
Well #: 1
Location: Section 34, T-26-S, R-37-E, 330 FNL & 330 FWL
- (2) Casing: 8 5/8" @ 1198' w/525 sxs cement in a 11" hole
5 1/2" @ 3500' w/1100 sxs cement in a 7 7/8" hole
- (3) Tubing: 2 7/8" @ 3208'
- (4) CIBP was set @ 3100' w/ 2 sxs cement - 3-14-84 by Marathon Oil Co.
MR Drilling drilled out the CIBP to ~~3095~~ 3495' 11-21-95

***** See attached schematic of well bore

B.

- (1) Injection Formation: Yates
Field Name : Rhodes
- (2) Injection Interval: 3221' - 3367' - perforated
- (3) The original purpose of the well was to produce oil.
- (4) There are no other perforated intervals in this well.
- (5) Next higher productive zone is N/A.
Lower Productive zone is N/A.

Surface Casing 8 5/8"
Depth Set 1198'
Cement 525 sx/surface

11" hole

Production String 5 1/2"
Depth Set 3500'
Cement 1100 sx/surface

7 7/8" hole

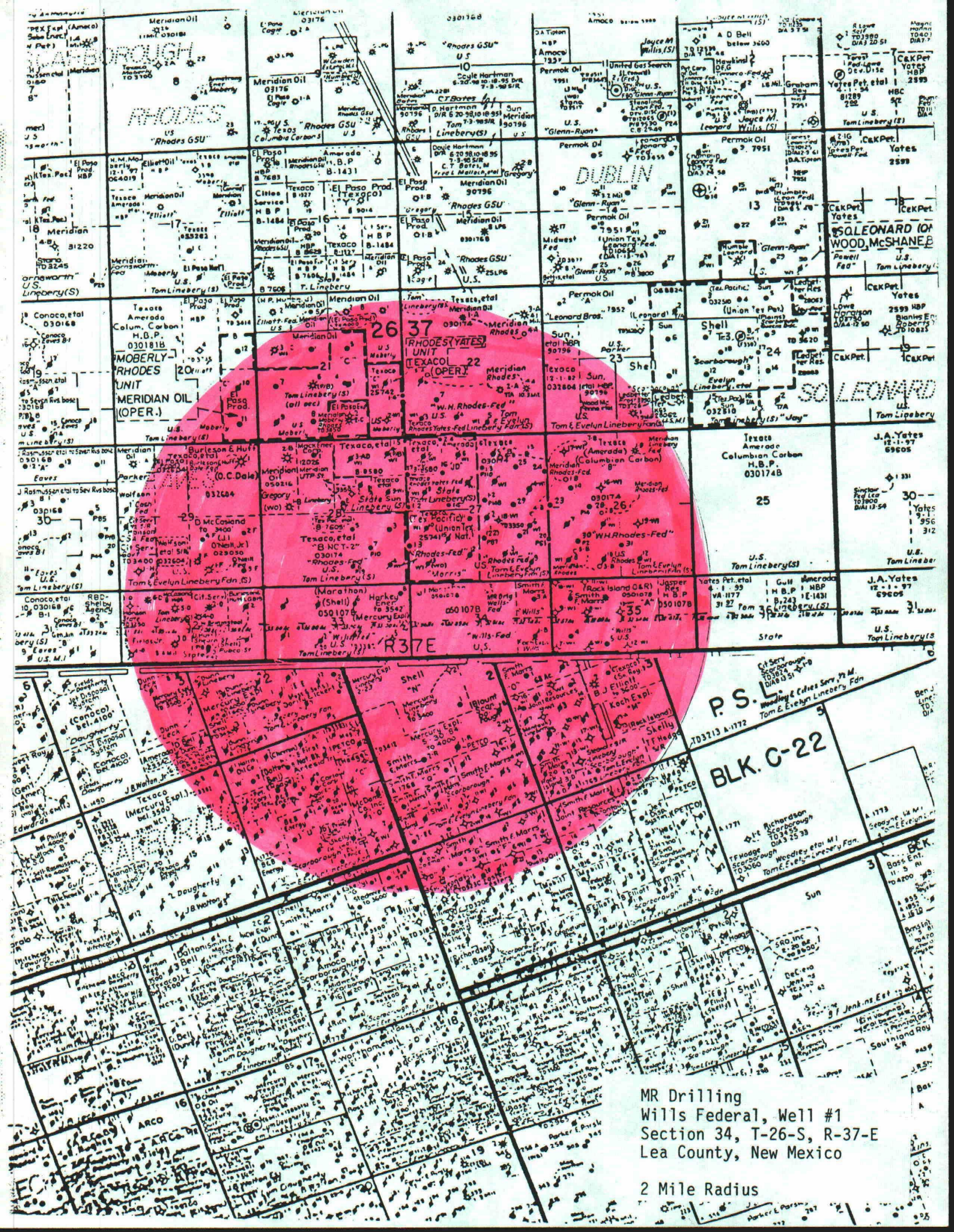
Perforations 3221-3367'
Tubing Depth 3208'

2 7/8" tubing
perforations - 3221-3367'

TD - 3500'

OPERATOR MR Drilling Company
LEASE AND WELL NAME Wills Federal, Well No. 1
LOCATION Sec 34, T-26S, R-37E, 330' FNL & 330' FWL
COUNTY AND STATE Lea County, NM

Requirement # V





MR Drilling
Wills Federal, Well #1
Section 34, T-26-S, R-37-E
Lea County, New Mexico

1/2 Mile Area of Review

MR Drilling
Wills Federal, Well #1
Section 34, T-26-S, R-37-E
Lea County, New Mexico

Wells Within a 1/2 Mile Radius:

- (1) Texaco Expl. & Prod., Rhodes (Yates) Coop FED COM 3, Well #1
Sec 27, T-26-S, R-37-E, Lea County, New Mexico
1360 FSL & 50 FWL, TD: 3500' DD: 2-14-94
Status: Waterflood
API: 30-025-32094 Rhodes Field
- (2) Texaco Expl. & Prod., Rhodes (Yates) Unit, Well #15,
Sec 27, T-26-S, R-37-E, Lea County, New Mexico
1516 FSL & 1453 FWL TD: 3440' DD: 12-17-92
Status: Waterflood
API: 30-025-31757 Rhodes Field
- (3) Texaco Inc., Rhodes (Yates) Unit, Well #13,
Sec 27, T-26-S, R-37-E, Lea County, New Mexico
660 FSL & 660 FWL TD: 3450' DD: 2-14-78
Status: Input
API 30-025-25693 Rhodes Field
- (4) Anderson - Pritchard, Gregory B, Well # 3,
Sec 27, T-26-S, R-37-E, Lea County, New Mexico
990 FSL & 2310 FWL TD: 3330' DD: 12-1-45
Status: Injection
API 30-025-12075 Rhodes Field
- (5) Texaco, Rhodes Yates Unit, Well #10
Sec 27, T-26-S, R-37-E, Lea County, New Mexico
2130 FSL & 660 FWL, TD: 3327' DD: 5-27-43
Status: Input
API 30-025-12058 Rhodes Field
- (6) Texaco, W.H. Rhodes "B" Federal NCT 2, Well # 3-B
Sec 28, T-26-S, R-37-E, Lea County, New Mexico
1980 FSL & 660 FEL, TD: 3330' DD: 6-26-43
Status: Input
API 30-025-12075 Rhodes Field

MR Drilling
Wills Federal, Well #1
Lea County, New Mexico

- (7) Texaco, Inc., Rhodes, W.H. "B" Federal (NCT-2), Well #6
Sec 28, T-26-S, R-37-E, Lea County, New Mexico
660 FSL & 1880 FEL, TD: 3450' DD: 11-7-84
Status: Input
API 30-025-28911 Rhodes Field

- (8) Texaco, Inc., Rhodes, W.H. "B" Federal (NCT-2), Well #4,
Sec 28, T-26-S, R-37-E, Lea County, New Mexico
660 FSL & 660 FEL, TD: 3460' DD: 2-24-78
Status: Input
API 30-025-25691 Rhodes Field

- (9) Texaco Expl. & Prod., Rhodes W.H. "B" Federal (NCT-2), Well #7,
Sec 28, T-26-S, R-37-E, Lea County, New Mexico
1350 FSL & 1290 FEL, TD: 3500' DD: 5-13-94
Status: Waterlood
API 30-025-32459 Rhodes Field

- (10) T.F. Hodge, Mary E. Wills Federal, Well #5,
Sec 33, T-26-E, R-37-E, Lea County, New Mexico
660 FSL & FEL, TD: 3382' DD: 4-15-59
Status: P&A, 4-24-59 (See attached Plugging Report)
API 30-025-12102 Jalmat Field

- (11) Harkey Energy, Inc., Mary E. Wills Federal, Well #4,
Sec 33, T-26-S, R-37-E, Lea County, New Mexico
1749' FNL & 1980 FEL, TD: 3472' DD: 4-6-59
Status: Shut-in
API 30-025-12101 Jalmat Field

- (12) Harkey Energy, Inc., Mary E. Wills Federal, Well #6,
~~Sec 33, T-26-S~~, R-37-E, Lea County, New Mexico
990 FNL & 2310 FEL, TD: 3299' DD: 6-15-59
Status: Shut-in
API 30-025-12103 Jalmat Field

Page 3

MR Drilling
Wills Federal, Well #1
Lea County, New Mexico

- (13) Harkey Energy Inc., Wills Federal, Well #8
Sec 33, T-26-S, R-37-E, Lea County, New Mexico
330 FNL & 330 FEL, TD: 3340' DD: 10-26-83
Status: Producing
API # 30-025-28301 Scarborough Field; Yates, Seven Rivers
- (14) MR Drilling, Wills Federal, Well #2
Sec 34, T-26-S, R-37-E, Lea County, New Mexico
330 FNL & 2310 FEL, TD: 4150' DD: 11-20-95
Status: Producing
API 30-025-33151 Rhodes Field

ILLEGIBLE

HOBBS OFFICE COPY

Form 9-251a
(Feb. 1951)

(SUBMIT IN TRIPLICATE)

UNITED STATES

DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Approval expires 12-31-51

Lee Green

650187 (5)

APR 24 1959

LIVED

GEOLOGICAL SURVEY
HOBBS, NEW MEXICO

APR 24 1959

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
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)

APR 23 1959

Well No. 8 is located 640 ft. from S line and 600 ft. from E line of sec. 23

SW/4 of the NE/4
(Of Sec. and Sec. No.)

26-S
(Twp.)

37-S
(Range)

10N
(Meridian)

Jaimez
(Field)

Lee
(County or Subdivision)

New Mexico
(State or Territory)

The elevation of the derrick floor above sea level is 2900 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)

Operator abandoned well and plugged same with the following cement plugs:

- #1 @ 2900' with 10 sacks
- #2 @ 1500' with 10 sacks
- #3 @ top of surface with 5 sacks

Well abandoned without notification. Delinquent Notice of Abandonment has been accepted for record but not approved. Well may later be re-entered for completion as a water injector well. G. H. Green

APR 24 1959

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

Company T. F. Dodge, Caroline Hunt Funds & Lord S. Funds

Address 1112 Continental Bank Bldg.

Fort Worth 2, Texas

T. F. DODGE

By Larry Gideon

Title Production Manager

MR Drilling
Wills Federal, Well #1
Section 34, T-26-S, R-37-E
Lea County, New Mexico

**** VII ****

- (1) Proposed daily rate of Injection: 600 BBLS
Maximum daily rate of Injection: 1000 BBLS
- (2) The system is to be closed, utilizing 1 - 500 BBL. Tank storage facility
- (3) Average Injection Pressure: 1200#
Maximum Injection Pressure: 1600#
- (4) Water injected will be reinjected water from a compatible and same formation produced water.
- (5) Well will be used for disposal purposes into a productive zone.

**** VIII ****

Information Litho from Oil Conservation Division -- See attached Form 3160-4

According to the State Engineers Office, the fresh water in the Santa Rosa Sandstone & Rustler Formation is to be encountered and protected to a depth of 600 & 1100' for this location, Section 34, T-26-S, R-37-E, 330 FWL & 330 FNL, Lea County, New Mexico

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE*

Form approved.
OMB No. 1004-0137
Expires February 28, 1995
5. LEASE DESIGNATION AND SERIAL NO.
NM-05017B

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL: OIL WELL ☒ GAS WELL ☐ DRY ☐ OTHER ☐				7. UNIT AGREEMENT NAME	
1b. TYPE OF COMPLETION: NEW WELL ☐ WORK OVER ☒ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ OTHER ☐				8. FARM OR LEASE NAME, WELL No. Wills Federal Well # 1	
2. NAME OF OPERATOR MR Drilling Company				9. API WELL NO. 30-025-00655	
3. ADDRESS OF OPERATOR P.O. Box 687, Monahans, Texas 79756 (915) 943-2501				10. FIELD AND POOL, OR WILDCAT Rhodes Yates	
4. LOCATION OF WEL (Report location clearly and in accordance with any State requirements)* At surface 330' FNL & 330' FWL of Section 34 At top prod. interval reported below At total depth Same				11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA SEC. 34, T 26S, R 37E	
14. PERMIT NO.				DATE ISSUED	
15. Date Spudded 12-17-83	16. Date T.D. Reached 12-24-83	17. DATE COMP (Ready to prod.) 12-4-95	18. ELEVATIONS (DF,RKB,RT,GR,ETC.) 2970' G.L.		19. ELEV. CASINGHEAD 2970'
20. TOTAL DEPTH, MD & TVD 3500'		21. PLUG, BACK T.D., MD & TVD	22. IF MULTIPLE COMPL., HOW MANY* 1	23. INTERVALS DRILLED BY	ROTARY TOOL X CABLE TOOLS
24. PRODUCING INTERVAL(S), OF THIS COMPLETION - TOP, BOTTOM, NAME (MD & TVD)* 3221' - 3367' Yates					25. WAS DIRECTIONAL SURVEY MADE NO
26. TYPE ELECTRIC AND OTHER LOGS RUN GR - CNL - LDT - C; GR-DLL					27. WAS WELL CORED No
28. CASING RECORD (Report all strings set in well)					
CASING SIZE		WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD
8 5/8"		24#	1198'	11"	525 sx
5 1/2"		15.5#	3500'	7 7/8"	1100 sx
29. LINER RECORD					
Size	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	
31. PERFORATION RECORD (Interval, size and number) 3221' - 3367' 42 holes				32. ACID, SHOT, FRAC., CEMENT SQUEEZE, Etc.	
				DEPTH INTERVAL (MD)	
				3221' - 3367'	
				AMT. AND KIND OF MATERIAL USED	
				2000 gals. 15% NeFe Acid	
				50,000 gals. 50/50 CO2 w/ 92,000# sand.	
33. PRODUCTION					
DATE FIRST PRODUCTION 11-24-95		PRODUCTION METHOD (Flowing, gas lift, pumping - size and type of pump) PUMPING			WELL STATUS (Producing or Shut in) PRODUCING
DATE OF TEST 11-25-95	HOURS TESTED 24	CHOKE SIZE	PROD'N. FOR TEST PERIOD OIL - BBL. 10 GAS - MCF. 4	WATER - BBL. 58	GAS-OIL RATIO 400
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL - BBL.	GAS - MCF.	WATER - BBL.
					OIL GRAVITY-API (CORR.) 39.5
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) SOLD					TEST WITNESSED BY
35. LIST OF ATTACHMENTS ALREADY ON FILE WITH BLM					

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records
James M.C. Ritchie, Jr.

SIGNED James M.C. Ritchie, Jr. TITLE REGULATORY AGENT DATE 12-28-95

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

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

NOV 27 '95 14:40

UNITED STATES

UNITED STATES

83240

SUBMIT IN DUPLICATE

DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

(See other instructions on reverse side)

P.2

Form approved.
Budget Bureau No. 42-3355.1

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ DRY ☒ Other _____

2. TYPE OF COMPLETION:

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

Other _____

3. NAME OF OPERATOR

Marathon Oil Company

4. ADDRESS OF OPERATOR

P. O. Box 2409 Hobbs, NM 88240

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

At surface

330' FNL & 330' FWL

At top prod. interval reported below

At total depth

14. PERMIT NO.

DATE ISSUED

6. LEASE DESIGNATION AND SERIAL NO.

LC-050107 (b)

7. IF INDIAN, ALLOTTEE OR TRIBE NAME

8. UNIT AGREEMENT NAME

9. FARM OR LEASE NAME

Wills Federal

10. WELL NO.

1

11. FIELD AND POOL OR WILDCAT

Rhodes, Yates

12. SEC. T. R. M. OR BLOCK AND SURVEY OR AREA

Unit Letter D, Sec. 34
T26S, R37E13. COUNTY OR PARISH
Lea14. STATE
NM

15. DATE SPUNDRD 12/17/83 16. DATE T.D. REACHED 12/24/83 17. DATE COMPL. (Ready to prod.) 2/15/84 18. ELEVATIONS (DT, BEP, ST, GR, ETC.) 2970 GR, 2982 KB 19. ELEV. CASINGHEAD 2970

20. TOTAL DEPTH, MD & TVD 3500 21. FLS. BACK T.D. MD & TVD 22. IF MULTIPLE COMPL., HOW MANY? 23. INTERVALS DRILLED BY 24. ROTARY TOOLS 25. CABLE TOOLS

26. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD) 3221 - 93 Upper Yates 27. WAS DIRECTIONAL SURVEY MADE No

28. TYPE ELECTRIC AND OTHER LOGS RUN

GR-CNL-LDT-C; GR-DLL

29. WAS WELL CORRO No

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLES	CEMENTING RECORD	AMOUNT FULLED
8 5/8	24	1198	11"	525 SX	None
5 1/2	15.5	3500	7 7/8	1100 SX	None

31. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	BACKS CEMENT?	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACER SET (MD)

32. PERFORATION RECORD (Interval, size and number)

3334-36, 40-41, 50-53, 60-67 w/1 JSPF
(17 holes)
3221-26, 30-32, 37-40, 52-54, 61-62, 71,
84-87, 92-93 w/1 JSPF (25 holes)

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
3334 - 67	1000 gal. 15% acid, 20000 gal. 50-50 CO ₂ w/38000# sand
3221 - 93	1000 gal. 15%, 30000 gal. 50-50 CO ₂ w/54000# sand

34. PRODUCTION

DATE FIRST PRODUCTION 2-16-84 PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Pumping 2 1/2" x 1 1/4" rod pump WELL STATUS (Producing or abandoned) Temporarily abandoned

DATE OF TEST 3-12-84 HOLES TESTED 24 CHOKE SIZE 2 PROD. FOR TEST PERIOD 2 OIL—BBL. GAS—MCF. WATER—BBL. GAS-OIL RATIO 33%

FLOW, TUBING PUMP, CASING PRESSURE, CALCULATED 24-HOUR RATE, OIL—BBL. GAS—MCF. WATER—BBL. OIL GRAVITY-API (DEGR.)

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

ACCEPTED FOR RECORD

TEST WITNESSED BY

Thomas F. Zaparka

36. LIST OF ATTACHMENTS

GR-CNL-LDT-C; GR-DLL

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

SIGNED

Thomas F. Zaparka

TITLE

Production Engineer

3-22-84

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of holes 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 25, below regarding separate reports for separate completions.

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 filed on this form, see item 28.

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 10: 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 28. 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.)

SUMMARY OF FORMER ZONES: SHOW ALL INTERVAL ZONES OF PREVIOUS COMPLETION, INCLUDING INTERVALS, AND ALL NEAR-TERM ZONES, INCLUDING DEPTH INTERVAL TESTS, CUSHION UBS, TIME TOOL DATA, PLACING AND SHOT-IN PASSERS, AND RECOVERIES		GEOLOGIC MARKERS	
FORMATION	TOP	NAME	NEAR. DEPTH
Yates	3060	Sand and Anhydrite	
Seven Rivers	3408	Sand and Dolomite	

MAY 9 1984

C.C.D.
MOORE OFFICE

NOV 27 '95 14:41

STATE OF NEW MEXICO
OIL AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

P. O. BOX 2408

SANTA FE, NEW MEXICO 87501

Form C-104
Revised 10-1-78

Oil or Gas Well	
Geothermal Well	
Water Well	
Other Well	
Well Type	
Well Status	
Well Depth	
Well Location	
Well Owner	
Well Operator	
Well Production	
Well Completion	
Well Casing	
Well Cement	
Well Test	
Well Log	
Well Diagram	
Well Record	
Well History	
Well Notes	

REQUEST FOR ALLOWABLE
AND
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

Operator
Marathon Oil Company

Address
P. O. Box 2409 Hobbs, NM 88240

Reason(s) for filing (Check proper box)

New Well	☒	Change in Transporter of:		Other (Please explain)
Accompletion	☐	Oil	☐	Test allowable of 75 bbls. oil. Well is now temporarily abandoned.
Change in Ownership	☐	Casinghead Gas	☐	
		Dry Gas	☐	
		Condensate	☐	

If change of ownership give name and address of previous owner _____

I. DESCRIPTION OF WELL AND LEASE

Lease Name Wills Federal	Well No. 1	Pool Name, including Formation Rhodes - Yates	Kind of Lease State, Federal or Fee Fed	Lease LC050
Location Unit Letter D : 330 Feet From The North Line and 330 Feet From The West				
Line of Section 34 Township 26S Range 37E NMPM, 1 Sec C				

II. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil ☒ or Condensate ☐	Address (Give address to which approved copy of this form is to be sent)
Getty Trading and Transportation Company	P. O. Box 1142 Midland, TX 79702
Name of Authorized Transporter of Casinghead Gas ☐ or Dry Gas ☐	Address (Give address to which approved copy of this form is to be sent)
If well produces oil or liquids, give location of tanks.	Unit : Sec. : Twp. : Rng. : Is gas actually connected? : When
	No

If this production is commingled with that from any other lease or pool, give commingling order number: _____

III. COMPLETION DATA

Designate Type of Completion - (X)	Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same Hole, Drill
			X				
Date Spudded 12/17/83	Date Compl. Ready to Prod. 2/15/84	Total Depth 3500	P.B.T.D. 3100				
Wellbore (DP, RAB, RT, GR, etc.) GR 2970 KB 2982	Name of Producing Formation Yates	Top Oil/Gas Pay 3221	Tubing Depth N/A				
Perforations			Depth Casing Shoe				

TUBING, CASING, AND CEMENTING RECORD

MR Drilling
Wills Federal, Well #1
Section 34, T-26-S, R-37-E
Lea County, New Mexico

**** IX ****

There is no stimulation program designed for this well.

**** X ****

Well logs for this well have been previously submitted by Marathon Oil Co. to the State Of New Mexico, Oil Conservation Division.

**** XI ****

See attached Chemical Analysis.

**** XII ****

See attached affirmative statement on geologic and engineering data examination.

**** XIII ****

See attached Notice and "Proof Of Notice" in Hobbs Newspaper .

MONAHANS, TEXAS 79756
PH. 943-3234 OR 563-1049

Martin Water Laboratories, Inc.

709 W. INDIANA
MIDLAND, TEXAS 79701
PHONE 653-4521

RESULT OF WATER ANALYSES

TO: Mr. Chris Hisel
P. O. Box 687, Monahans, TX 79756

LABORATORY NO. 129557
SAMPLE RECEIVED 12-7-95
RESULTS REPORTED 12-12-95

COMPANY MR Oil Company LEASE Wills Federal #1
FIELD OR POOL Rhodes (Yates)
SECTION BLOCK SURVEY COUNTY Lea STATE NM
SOURCE OF SAMPLE AND DATE TAKEN:

NO. 1 Produced water - taken from Wills Federal #1.

NO. 2

NO. 3

NO. 4

REMARKS:

CHEMICAL AND PHYSICAL PROPERTIES				
	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.	1.1744			
pH When Sampled				
pH When Received	5.98			
Bicarbonates as HCO ₃	1.025			
Supersaturation as CaCO ₃				
Undersaturation as CaCO ₃				
Total Hardness as CaCO ₃	58,000			
Calcium as Ca	7,400			
Magnesium as Mg	9,599			
Sodium and/or Potassium	81,175			
Sulfate as SO ₄	1,257			
Chloride as Cl	164,764			
Iron as Fe	137			
Barium as Ba				
Turbidity, Electric				
Color as Pt				
Total Solids, Calculated	265,219			
Temperature °F.				
Carbon Dioxide, Calculated				
Dissolved Oxygen.				
Hydrogen Sulfide	0.0			
Resistivity, ohm-cm at 77° F.	0.049			
Suspended Oil				
Filtrable Solids as mg/l				
Volume Filtered, ml				

Results Reported As Milligrams Per Liter

Additional Determinations And Remarks These results show this water to have ratios of salts that correlate with what would be expected from Yates water in the Rhodes field. There does appear to be some discrepancies in the form of a lower than normal pH and a higher than normal bicarbonate, suggesting there may be some minor influence from water that might have been artificially induced into this well. Actually, our records show natural Yates to have a slightly higher magnesium, sodium, and chloride which also may be a reflection of a minor amount of artificially induced load or drilling water. However, these discrepancies are insufficient to indicate this is anything other than at least nearly all natural Yates.

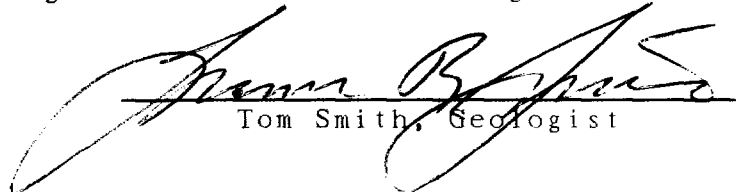
M R DRILLING COMPANY

P.O. BOX 687
MONAHANS, TEXAS 79756

June 26, 1996

MR Drilling Company
Wills Federal, Well #1
Rhodes Yates Field
Lea County, New Mexico

In reference to the Wills Federal, well #1, located in Section 34, T-26-S, R-37-E, being 330 FNL and 330 FWL, Lea County, New Mexico, I have examined the available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the injection zone and any underground source of drinking water.


Tom Smith, Geologist

Requirement XIV

"Proof of Notice"

AFFIDAVIT OF PUBLICATION

State of New Mexico,
County of Lea.

I, Kathi Bearden

Publisher

of the Hobbs Daily News-Sun, a
daily newspaper published at
Hobbs, New Mexico, do solemnly
swear that the clipping attached
hereto was published once a
week in the regular and entire
issue of said paper, and not a
supplement thereof for a period.

of _____

_____ 1 _____ weeks.
Beginning with the issue dated

_____ June 14 _____, 1996
and ending with the issue dated

_____ June 14 _____, 1996

Kathi Bearden
Publisher

Sworn and subscribed to before

me this 19 day of

June, 1996

Sandra Catlett
Notary Public.

My Commission expires
August 29, 1999
(Seal)

This newspaper is duly qualified
to publish legal notices or adver-
tisements within the meaning of
Section 3, Chapter 167, Laws of
1937, and payment of fees for
said publication has been made.

LEGAL NOTICE

June 14, 1996

**NOTICE OF APPLICATION
FOR FLUID INJECTION
WELL PERMIT**

MR Drilling Company, C/O
P.O. Box 953, Midland, TX
79702 is seeking administra-
tive approval from the New
Mexico Oil Conservation Divi-
sion to complete our Wills
Federal Well #1 as an injec-
tion well. The well is located
in Section 34, T 26 S, R 37 E,
Lea County, New Mexico.
The proposed injection zone
is the Yates formation with
perforations from 3221 to
3367. MR Drilling Company
intends to inject a maximum
of 1000 BBLs of produced for-
mation water per day at a
maximum injection pressure
of 1600#.

Interested parties must file
objections or request for hear-
ing with the Oil Conservation
Division, P.O. Box 2088, San-
ta Fe, New Mexico 87501
within 15 days of this notice.
#14616

MR Drilling
Wills Federal, Well #1
Section 34, T-26-S, R-37-E
Lea County, New Mexico

**** XIV ****

Leasehold Operators Within 1/2 Mile Radius:

Marathon
P.O. Box 552
Midland, TX 79702

Shell Oil Company
P.O. Box 576
Houston, TX 77001

Harkey Energy
P.O. Box 1975
Monahans, TX 79756

Texaco Exploration & Production
P.O. Box 3109
Midland, TX 79702

Surface Owner:

Tom & Evelyn Lineberry Foundation
P.O. Box 1536
Midland, TX 79702

Copies Of registered mail receipts attached showing application was sent to the
above leasehold operators and surface owner. ^(notice)

Insert

Color Page/Photo

Here

U. S. LAND OFFICE Las CrucesSERIAL NUMBER 030174 (b)

LEASE OR PERMIT TO PROSPECT

DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company The Texas Company Address Box 1720, Fort Worth, Texas.
 Lessor or Tract W. H. Rhodes (b) Field Rhodes State New Mexico
 Well No. 3 Sec. 28 T. 26-N R. 37-E Meridian N.M.P.M. County Las
 Location 1980 ft. N. of 1 Line and 660 ft. E. of E Line of Sec. 28 Elevation 2983
 (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 J. H. Shipler Title District Superintendent.

Date June 26, 1943

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

Commenced drilling May 29, 1943 Finished drilling June 26, 1943

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 3140 to 3150 G. No. 4, from _____ to _____
 No. 2, from 3230 to 3245 G No. 5, from _____ to _____
 No. 3, from 3288 to 3330 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>5-7/8"</u>	<u>32"</u>	<u>8</u> ind.	<u>Mls.</u>	<u>397'</u>	<u> Baker Guide</u>	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>
<u>5-1/2"</u>	<u>15"</u>	<u>8</u> ind.	<u>Mls.</u>	<u>233'</u>	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>
				<u>2966'</u>	<u>Halliburton Guide</u>	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
<u>5-7/8"</u>	<u>608'</u>	<u>200</u>	<u>Halliburton</u>		
<u>5-1/2"</u>	<u>3185'</u>	<u>300</u>	<u>*</u>		

PLUGS AND ADAPTERS

Heaving plug—Material _____ Length _____ Depth set _____

Adapters—Material _____ Size _____

SHOOTING RECORD

PLUGS AND ADAPTERS

Heaving plug—Material _____ Length _____ Depth set _____

Adapters—Material _____ Size _____

SHOOTING RECORD

[illegible]

TOOLS USED

Rotary tools were used from 0 feet to 3330' feet, and from _____ feet to _____ feet

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

DATES

DAYS		DATES	
July 1,	1943	Put to producing	June 26, 1943

The production for the first 24 hours was 66 barrels of fluid of which 100 % was oil; 0 % emulsion; 0 % water; and 0 % sediment. Gravity, °Bé. 36

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

Rock pressure, lbs. per sq. in. _____

EMPLOYEES

J. C. Hill. Driller **Engine Blount** Driller

Tough Test. _____, Driller

FORMATION RECORD

FROM	TO	TOTAL FEET	FORMATION
0	113	113	Surface Sand & Shale
113	440	327	Red Beds & Shells
440	611	171	Red Rock
611	1180	569	Red Beds & Shells
1180	1424	244	Anhydrite
1424	2726	1302	Anhydrite & Salt
2726	2860	134	Anhydrite
2860	2977	117	Lime & Anhydrite
2977	3030	53	Lime
3030	3154	124	Lime & Sand
3154	3229	75	Lime
3229	3245	16	Lime, Sand & Shale
3245	3288	43	Lime and Some Sand
3288	3330	42	Porous Sandy Lime & Sand.

HISTORY OF OIL OR GAS WELL

It is of the greatest importance to have a complete history of the well. Please state in detail the dates of redrilling, together with the reasons for the work and its results. If there were any changes made in the casing, state fully, and if any casing was "sidetracked" or left in the well, give its size and location. If the well has been dynamited, give date, size, position, and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position, and results of pumping or bailing.

This well was shot on 6-21-43 with 60 quarts of nitroglycerine from 3288' to 3330'. The shot was tamped with 2 yards of gravel. Before shooting, the well produced 87 barrels of oil in 15 hours flowing by heads. After shooting and cleaning out to bottom the well produced 66 barrels oil in 10 hours flowing thru 2" tubing with a gas-oil ratio of 1200.

Deviation Tests:

260' - 0°
 900' - 1°
 1320' - 0°
 1740' - 0°
 2220' - 1/2°
 2555' - 1-1/2°
 2760' - 1°
 3098' - 1°

STATE OF TEXAS
 COUNTY OF DALLAS
 CITY OF DALLAS

WITNESSES
 J. M. BORG
 J. M. BORG

STATE OF TEXAS
 COUNTY OF DALLAS
 CITY OF DALLAS

(July 1992)

**UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT**

SUBMIT IN DUPLICATE

N.M. OIL & GAS COMMISSION

OMB No. 1004-0137

P.O. BOX 1989

HOBBS, NEW MEXICO 88240

LEASE DESIGNATION AND SERIAL NO.

NM 05017B 050107B

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL: OIL WELL ☒ GAS WELL ☐ DRY ☐ OTHER ☐						6. IF INDIAN, ALLOTTEE OR TRIBE NAME																																					
1b. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ OTHER ☐						7. UNIT AGREEMENT NAME																																					
2. NAME OF OPERATOR MR Drilling Company						8. FARM OR LEASE NAME, WELL No. Wills Federal Well # 2																																					
3. ADDRESS OF OPERATOR P.O. Box 687, Monahans, Texas 79756 (915) 943-2501						9. API WELL NO. 30-025-33151																																					
4. LOCATION OF WEL (Report location clearly and in accordance with any State requirements)* At surface 330' FNL & 2310' FEL of Section 34 At top prod. interval reported below At total depth Same						10. FIELD AND POOL, OR WILDCAT Rhodes Yates																																					
14. PERMIT NO. _____ DATE ISSUED _____						11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA SEC. 34, T 26S, R 37E																																					
15. Date Spudded 10-31-95 16. Date T.D. Reached 11-8-95 17. DATE COMP (Ready to prod.) 11-18-95 18. ELEVATIONS (DF,RKB,RT,GR,ETC.) 2977' G.L.						12. COUNTY OR PARISH LEA 13. STATE NM																																					
20. TOTAL DEPTH, MD & TVD 3900' 21. PLUG, BACK T.D., MD & TVD CIBP@3595' PBTD@3572' 22. IF MULTIPLE COMPLETIONS, HOW MANY _____ 23. INTERVALS _____ ROTARY TOOL _____ CABLE TOOLS _____						19. ELEV. CASINGHEAD																																					
24. PRODUCING INTERVAL(S), OF THIS COMPLETION - TOP, BOTTOM, NAME (MD & TVD) 3316' - 3382' Yates						25. WAS DIRECTIONAL SURVEY MADE NO																																					
26. TYPE ELECTRIC AND OTHER LOGS RUN DLL, Micro - SFL, Litho Density, Compensated Neutron						27. WAS WELL CORED No																																					
28. CASING RECORD (Report all strings set in well) <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>CASING SIZE</th> <th>WEIGHT, LB./FT.</th> <th>DEPTH SET (MD)</th> <th>HOLE SIZE</th> <th>CEMENTING RECORD</th> <th>Amount Pulled</th> </tr> </thead> <tbody> <tr> <td>8 5/8</td> <td>24#</td> <td>1271'</td> <td>12 1/4</td> <td>685 SX - SURFACE</td> <td>NONE</td> </tr> <tr> <td>5 1/2</td> <td>17#</td> <td>3900'</td> <td>7 7/8</td> <td>875 SX - SURFACE</td> <td>NONE</td> </tr> </tbody> </table>								CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	Amount Pulled	8 5/8	24#	1271'	12 1/4	685 SX - SURFACE	NONE	5 1/2	17#	3900'	7 7/8	875 SX - SURFACE	NONE																		
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31. PERFORATION RECORD (Interval, size and number) 3316' - 3382' 31 holes				32. ACID, SHOT, FRAC., CEMENT SQUEEZE, Etc. <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>DEPTH INTERVAL (MD)</th> <th>AMT. AND KIND OF MATERIAL USED</th> </tr> </thead> <tbody> <tr> <td>3316' - 3382'</td> <td>1500 gals. 15% NeFe Acid</td> </tr> <tr> <td></td> <td>40,000 gals. 30# gel, 77,000# 20/40</td> </tr> <tr> <td></td> <td>18,000 # 12/20 sand.</td> </tr> </tbody> </table>				DEPTH INTERVAL (MD)	AMT. AND KIND OF MATERIAL USED	3316' - 3382'	1500 gals. 15% NeFe Acid		40,000 gals. 30# gel, 77,000# 20/40		18,000 # 12/20 sand.																												
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34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) SOLD						TEST WITNESSED BY																																					
35. LIST OF ATTACHMENTS Logs & deviation report																																											

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

James M.C. Ritchie, Jr.

SIGNED

TITLE

REGULATORY AGENT

DATE

12-6-95

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

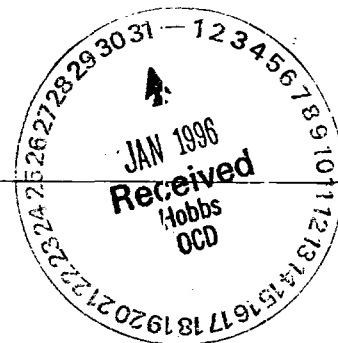
Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut in pressures, and recoveries):

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEAS. DEPTH	TOP	TRUE VERT. DEPTH
Permian	0	1170	Loose gravly unconsolidated, coarse, brownish gray				
Rustler Anhydrite	1170	1434	Unconsolidated, whitish brown, salty	Rustler	1170		
Salt	1434	1562	100% whitish salt	Salt	1434		
Anhydrite & Salt	1562	3083	Unconsolidated loosely packed brownish gray	Yates	3083		
Yates	3083	3384	Sandy, brownish with show of oil in samples	7 Rivers	3384		
7 Rivers	3384	3690	Dolomite and sand stringers. No shows	Queens	3690		
Queens	3690	3900	Dolomite and sand stringers. No shows				

GEOLOGIC MARKERS

38.



UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE

(See other In-
structions on
reverse side)

Form approved.
Budget Bureau No. 1004-0137
Expires August 31, 1985

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL ☒ GAS WELL ☐ DRY ☐ Other ☐

b. TYPE OF COMPLETION:

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

2. NAME OF OPERATOR

Sea Sand Oil Company *Harkey Energy, Inc*

3. ADDRESS OF OPERATOR

917 Capital National Bank Bldg, Fort Worth, Tx 76102

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

At surface

Unit Letter A, 330' from the NL & 330' FE line Sec 33

At top prod. interval reported below

At total depth

14. PERMIT NO.

DATE ISSUED

10/02/83

15. DATE SPUDDED

9/10/83

16. DATE T.D. REACHED

9/18/83

17. DATE COMPL. (Ready to prod.)

10/26/83

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

2963 GR

19. ELEV. CASINGHEAD

2963

20. TOTAL DEPTH, MD & TVD

3340'

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

3300'

22. IF MULTIPLE COMPL., HOW MANY*

none

23. INTERVALS DRILLED BY

→

ROTARY TOOLS

0-3340'

CABLE TOOLS

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

Top 3130 Bottom 3235 -Yates & 7 Rivers Pay Section

25. WAS DIRECTIONAL SURVEY MADE

Yes, less than 1°

26. TYPE ELECTRIC AND OTHER LOGS RUN

Self Potential Resistivity, Gamma Ray Neutron

27. WAS WELL CORED

no

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8 5/8	32#	84'	12 1/2 conductor	40 circulated	none
5 1/2	15 1/2#	3440'	7 1/4	150 sack cement	
2" EUE	4.6#	3080'	5 1/2 csg		

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)

31. PERFORATION RECORD (Interval, size and number)

3130' - 3255', 4 holes per foot
Total 100 holes

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
3340	27,000gal XL-4 Crosslink Gel
3340	27,000gal CO-2
	53,000# sand

33.* PRODUCTION

DATE FIRST PRODUCTION 10/26/83 PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Flowing WELL STATUS (Producing or shut-in) Producing

DATE OF TEST 10/26/83 HOURS TESTED 24 hrs CHOKE SIZE 12/64" PROD'N. FOR TEST PERIOD → OIL—BBL. 81.2 GAS—MCF. 81.2 WATER—BBL. 1 GAS-OIL RATIO 746

FLOW, TUBING PRESS. 580#/Sq" CASING PRESSURE Packer 0 CALCULATED 24-HOUR RATE → OIL—BBL. 81.2 GAS—MCF. 81.2 WATER—BBL. 1 OIL GRAVITY-API (CORR.) 36

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

vented

TEST WITNESSED BY

George Hale

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 *Robert Matting* TITLE Agent

DATE 4/12/88

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

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):

GEOLÓGIC MA. 1911.

38.

FORMATION

top

BOTTOM:

DESCRIPTION, CONTENTS, ETC.

NAME _____

[TOP](#)

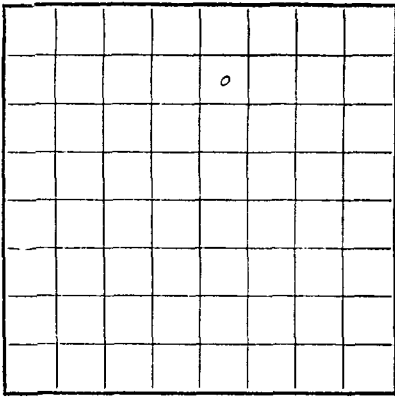
MEAS. DEPTH

TRUE
WERT. DEPTH

RECEIVED
APR 27 1988
HOBBS OFFICE

APR 18 8 48 AM '88
CARLETON COLLEGE
AREA HEADQUARTERS

HOBBS

U. S. LAND OFFICE Las Cruces
SERIAL NUMBER 050107 (b)
LEASE OR PERMIT TO PROSPECT

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

RECEIVED
JUN 29 1959
U. S. GEOLOGICAL SURVEY
HOBBS, NEW MEXICO

LOG OF OIL OR GAS WELL

Company T. F. Hodge et al Address 1113 Continental Bank Building Fort Worth 2, Texas
Lessor or Tract Mary E. Wills Federal Field Jalmat State New Mexico
Well No. 6 Sec. 33 T. 26S R. 37E Meridian NMPM County Lea
Location 990 ft. N of N Line and 2310 ft. E of E Line of Section 33 Elevation 2960
(Denote foot 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 Leroy GidsonDate June 25, 1959 Title Production Manager

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

Commenced drilling 5/29/59, 19..... Finished drilling 6/7/59, 19.....

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 3236 to 3252 No. 4, from to
No. 2, from 3165 to 3172 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>1 1/2"</u>	<u>9.5</u>	<u>8</u>	<u>Spang</u>	<u>613</u>	<u>-</u>		<u>-</u>		
<u>1 1/2"</u>	<u>9.5</u>	<u>8</u>	<u>"</u>	<u>3299</u>	<u>Larkin</u>	<u>3236</u>	<u>3253</u>	<u>1784</u>	<u>1784</u>

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
<u>1 1/2"</u>	<u>613</u>	<u>400</u>	<u>Pump</u>		
<u>1 1/2"</u>	<u>3299</u>	<u>200</u>	<u>"</u>		

PLUGS AND ADAPTERS

Heaving plug—Material Length Depth set
Adapters—Material Size

SHOOTING RECORD

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 3299 feet, and from feet to feet
 Cable tools were used from feet to feet, and from feet to feet

DATES

....., 19..... Put to producing June 15, 1959
 The production for the first 24 hours was 82 barrels of fluid of which 100% 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.

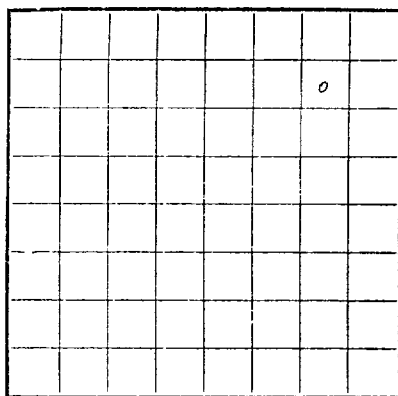
EMPLOYEES

....., Driller Driller
 Driller Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	613	613	Surf., red beds
613	1218	605	Shale & Anhydrite
1218	1653	435	Salt & Anhydrite
1653	1793	140	Anhydrite and lime
1793	2266	473	Anhydrite
2266	2669	403	Salt & Anhydrite
2669	2914	245	Anhy., salt & lime
2914	2953	39	Lime, gyp
2953	3299	346	Lime Total Depth
TOP OF YATES FORMATION 3057'			

[OVER]



LOCATE WELL CORRECTLY

U. S. LAND OFFICE Las CrucesSERIAL NUMBER 050107 (b)

LEASE OR PERMIT TO PROSPECT

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

RECEIVED
APR 14 1959
U. S. GEOLOGICAL SURVEY
HOBBS, NEW MEXICO

LOG OF OIL OR GAS WELL

Company T. F. Hodge, Caroline Hunt Sands Address 1113 Continental Bank Bldg.
& Loyd B. Sands Fort Worth, Texas
Lessor or Tract Wills Federal Field Jalmat State New Mexico
Well No. 4 Sec. 33 T. 26S R. 37E Meridian NMPM County Lea
Location 560 ft. N of S Line and 1980 ft. W of E Line of Sec. 33 Elevation
(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 Lucas GideonDate April 8, 1959Title Production Manager

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

Commenced drilling 3/25/59, 19 Finished drilling 4/1/59, 19

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 3262 to 3292 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—	
6 5/8	24	8	Spang	633		none	none		Surface
4 1/2	9.5	8	Spang	3472		as above			oil casing

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
6 5/8"	633	400	Halliburton	8.7	Circ. out.
4 1/2"	3472	150	"	"	"

PLUGS AND ADAPTERS

Heaving plug—Material None Length Depth set
Adapters—Material Size

SHOOTING RECORD

Shot	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleared out
------	------------	----------------	----------	------	------------	-------------------

FOLD | MA: K

4 1/2" 3472 150

PLUGS AND ADAPTERS

Heaving plug—Material None 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 3472 feet, and from _____ feet to _____ feet
 Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

_____, 19____ Put to producing 4/6/59, 19____

The production for the first 24 hours was 66 barrels of fluid of which 100% was oil; _____% emulsion; _____% water; and _____% sediment. Gravity, °Bé. 37.5

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	352	862	Surf. red beds.
862	1489	627	Shale & anhydrite
1489	2223	734	Salt & anhydrite
2223	2952	729	Lime
2952	3472	520	Lime-TD
TOP OF YATES	3262		

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

CONTACT RECD (G)
OFFICE FOR NUM.
OF COPIES REQUIRED
(See other instructions on
reverse side)

BLM Roswell District
Modified Form No.
NM060-3160-3

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL: OIL WELL ☒ GAS WELL ☐ DRY ☐ Other _____				5. LEASE DESIGNATION AND SERIAL NO. LC-030174-B	
b. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESER. ☐ Other _____				6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
2. NAME OF OPERATOR TEXACO EXPLORATION AND PRODUCTION INC				7. UNIT AGREEMENT NAME	
3. ADDRESS OF OPERATOR P. O. Box 3109, Midland, Texas 79702				8. FARM OR LEASE NAME W.H.RHODES FED.'B'NCT-2	
3a. AREA CODE & PHONE NO. 915-688-4620				9. WELL NUMBER 7	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface 1350' FSL & 1290' FEL, UNIT LETTER I, NE/SE At top prod. interval reported below SAME At total depth SAME				10. FIELD AND POOL, OR WILDCAT RHODES YATES SEVEN RIVER	
11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA SEC. 28, T-26-S, R-37-E					
9a. API WELL NO. API# 30-025-32459		14. PERMIT NO. N/A		DATE ISSUED 03-09-94	
15. DATE SPUNDED 03-22-94		16. DATE T.D. REACHED 03-26-94		17. DATE COMPL. (Ready to prod.) 05-02-94	
18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* GR-2960', KB-2974'		19. ELEV. CASINGHEAD 2960'			
20. TOTAL DEPTH, MD & TVD 3500'		21. PLUG BACK T.D., MD & TVD 3406'		22. IF MULTIPLE COMPL. HOW MANY*	
23. INTERVALS DRILLED BY →		ROTARY TOOLS 0 - 3500'		CABLE TOOLS	
24. PRODUCING INTERVAL (S), OF THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TVD)* 3187' - 3256'; YATES/SEVEN RIVERS				25. WAS DIRECTIONAL SURVEY MADE YES	
26. TYPE ELECTRIC AND OTHER LOGS RUN GR-DLL-MSFL-CSL, GR-CNL-LDT, GR-CCL				27. WAS WELL CORED NO	
28. CASING RECORD (Report all strings set in well)					
CASING SIZE		WEIGHT, LB./FT.		DEPTH SET (MD)	
8 5/8		24#		720'	
5 1/2		15.5# & 17#		3500'	
29. LINER RECORD					
SIZE		TOP (MD)		BOTTOM (MD)	
30. TUBING RECORD					
SIZE		DEPTH SET (MD)		PACKER SET (MD)	
2 7/8		3078'			
31. PERFORATION RECORD (Interval, size, and number)					
3187' - 3197'; 4 JSPF, 40 HOLES.					
3242' - 3256'; 4 JSPF, 56 HOLES.					
32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.					
DEPTH INTERVAL (MD)		AMOUNT AND KIND OF MATERIAL USED			
3187' - 3256'		ACID: 1000 GAL 7 1/2% NEFE			
FRAC: 29600 GAL		XLG 2% KCL & 150000# 16/30 SD.			
3242' - 3256'		ACID: 800 GAL 7 1/2% NEFE			
FRAC: 15000 GAL		XLG 2% KCL & 34344# 16/30 SD.			
33. PRODUCTION					
DATE OF FIRST PRODUCTION 04-27-94		PRODUCTION METHOD (Flowing, gas lift, pumping - size and type of pump) PUMPING 2.5 X 1.75 X 24			WELL STATUS (Producing or shut-in) PRODUCING
DATE OF TEST 05-13-94		HOURS TESTED 24		CHOKE SIZE	
FLOW. TUBING PRESS.		CASING PRESSURE		CALCULATED 24 HOUR RATE	
				→	
OIL - BBL		GAS - MCF		WATER - BBL	
10		53		230	
OIL GRAVITY - API (CORR.)		39.00			
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) SOLD					
35. LIST OF ATTACHMENTS DEVIATION SURVEY					
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records					
SIGNED <u>C.P. Basham / ADH</u> TITLE <u>DRILLING OPERATIONS-MANAGER</u> DATE <u>05-20-94</u>					

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

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries).

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
YATES SEVEN RIVERS	3000'	3324'	SANDSTONE, ANHYDRITE & DOLOMITE; OIL	RUSTLER	1187'	
	3324'	3500'	DOLOMITE, SANDSTONE & ANHYDRITE; OIL	SALADO	1403'	
				TANSILL	2865'	
				YATES	3000'	
				SEVEN RIVERS	3324'	
				TD	3500'	

38. GEOLOGIC MARKERS

**UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY**

SUBMIT IN DUPLICATE*

(See oil
instruction
reverse side)Form approved,
Budget Bureau No. 42-R355.5.**WELL COMPLETION OR RECOMPLETION REPORT AND LOG ***1a. TYPE OF WELL: OIL WELL ☒ GAS WELL ☐ DRY ☐ Other _____

b. TYPE OF COMPLETION:

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

2. NAME OF OPERATOR

TEXACO Inc.

3. ADDRESS OF OPERATOR

P. O. Box 728, Hobbs, New Mexico 882

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

At surface 660' FSL & 660' FEL of Section 28, T-26-S,

R-37-E, Unit Letter 'P',

Lea County, New Mexico

At top prod. interval reported below

At total depth

14. PERMIT NO.

DATE ISSUED

Regular

5. LEASE DESIGNATION AND SERIAL NO.

LC-030174 (6)

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

W.H. Rhodes 'B' Fed. NCT-2

9. WELL NO.

4

10. FIELD AND POOL, OR WILDCAT

Rhodes Yates

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

Sec. 28, T-26-S, R-37-E

12. COUNTY OR PARISH

Lea

13. STATE

New Mexico

15. DATE SPUDDED

1-19-78

16. DATE T.D. REACHED

1-24-78

17. DATE COMPL. (Ready to prod.)*

2-23-78

18. ELEVATIONS (DF, RSB, RT, GR, ETC.)*

2965' (GR)

19. ELEV. CASINGHEAD

2965'

20. TOTAL DEPTH, MD & TVD

3460'

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

3433'

22. IF MULTIPLE COMPL., HOW MANY*

23. INTERVALS DRILLED BY

ROTARY TOOLS

0-3460'

CABLE TOOLS

-0-

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

3289' - 3318'

&ates

25. WAS DIRECTIONAL SURVEY MADE

No

26. TYPE ELECTRIC AND OTHER LOGS RUN

GR/CNL

27. WAS WELL CORED

No

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8 5/8"	24#	655	12 1/4"	500 SX	-0-
5 1/2"	14#	3460	7 7/8"	950 SX	-0-

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 7/8"	3264'	

31. PERFORATION RECORD (Interval, size and number)

Perforated 5 1/2" Csg w/2-JSPF @
3289', 94', 3300', 07', 12', & 3318'

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
3289' - 3318'	1000 gal. 15% Mud Acid -
	28,000 gal. 70 quality foam
	w/1.36# 20/40 San/Gal. in 2-stages
	using 6BS & 1000 gal. 15% MA btwn

33. PRODUCTION

stages.

DATE FIRST PRODUCTION

2-23-78

PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)

Pump - 1 1/2" Beam Pump

WELL STATUS (Producing or shut-in)

Producing

DATE OF TEST

2-24-78

HOURS TESTED

24

CHOKE SIZE

PROD'N. FOR TEST PERIOD

OIL—BBL.

8

GAS—MCF.

6

WATER—BBL.

16

GAS-OIL RATIO

724

FLOW. TUBING PRESS.

CASING PRESSURE

CALCULATED 24-HOUR RATE

OIL—BBL.

8

GAS—MCF.

6

WATER—BBL.

16

OIL GRAVITY-API (CORR.)

38.1

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

Sold

TEST WITNESSED BY

F. M. Reynolds

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

TITLE

Asst. Dist. Supt.

DATE

2-27-78

*(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 33, 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 DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES			38. GEOLOGIC MARKERS		
FORMATION	TOP	BOTTOM	NAME	MEAS. DEPTH	TRUE VERT. DEPTH
Red Bed	0	655	Anhydrite Yates Seven Rivers	1190	
Anhy & Salt	655	2818		3017	
Anhy & Lime	2818	3292		3330	
Lime	3292	3460			
Total Depth		3460			
PBTD		3460			

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE

(See instructions on reverse side)

Form approved
Budget Bureau No. 42-R355.5.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL ☒ GAS WELL ☐ DRY ☐ Other _____

b. TYPE OF COMPLETION:

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

2. NAME OF OPERATOR

TEXACO INC.

3. ADDRESS OF OPERATOR

P. O. Box 728, Hobbs, New Mexico 88240

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

At surface

At top prod. interval reported below

At total depth

660' FSL & 1880' FEL
(Unit Letter '0')

14. PERMIT NO.

DATE ISSUED

Regular

9-11-84

5. LEASE DESIGNATION AND SERIAL NO.

LC-030174 (b)

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

W. H. Rhodes B Fed. NCT-2

9. WELL NO.

6

10. FIELD AND POOL, OR WILDCAT

Rhodes Yates

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

Sec. 28, T-26-S, R-37-E

12. COUNTY OR PARISH
Lea

13. STATE

New Mexico

15. DATE SPUDDED 9-17-84 16. DATE T.D. REACHED 9-25-84 17. DATE COMPL. (Ready to prod.) 11-4-84 18. ELEVATIONS (DF, REB, RT, GR, ETC.)* 2966' (GR) 19. ELEV. CASINGHEAD 2966'

20. TOTAL DEPTH, MD & TVD 3450' 21. PLUG, BACK T.D., MD & TVD 3240' 22. IF MULTIPLE COMPL., HOW MANY* 23. INTERVALS DRILLED BY 0-3450' 24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 3127'-3224' Yates

25. WAS DIRECTIONAL SURVEY MADE

No

26. TYPE ELECTRIC AND OTHER LOGS RUN

GR-CNI-LDT, DLL-MSFL

27. WAS WELL CORED

No

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8 5/8"	24#	650'	12 1/4"	650 SX	-0-
5 1/2"	15.5#	3450'	7 7/8"	950 SX	-0-

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 3/8"	3230	-

31. PERFORATION RECORD (Interval, size and number)

Perf. 5 1/2" Csg W/2-JSPF From 3127-3154,
3161-3164, 3190-3208, & 3214-3224'.

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
3127-3224'	6000 Gals 15% NE Acid & 80 Ball Sealers.
	24,000 Gals X-Linked Gel 2% KCL Ac
	Wtr. 21,500 gals CO2, 60,000# 20/40

33.*

PRODUCTION

Sand & 3000# Rock Salt

DATE FIRST PRODUCTION

PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)

WELL STATUS (Producing or shut-in)

11-5-84 Pumping 1 1/2" Producing

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
11-7-84	24			19	1	3	35
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
			19	1	3		35.4

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

Sold

TEST WITNESSED BY

J. A. Head

35. LIST OF ATTACHMENTS

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

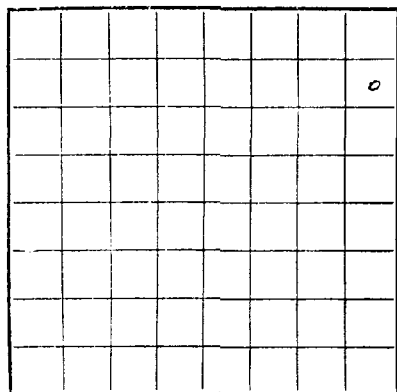
SIGNED W. B. Lick TITLE District Operations Manager DATE 11-21-84

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

General: This form is designed for submitting a complete and correct well log or both, pursuant to applicable Federal and/or State laws and regulations. Any log submitted, particularly with regard to local, area, or regional procedures and practices, should be submitted to the local, area, or regional office. See instructions on items 22 and 24, and 33, below regarding logs (drillers, geologists, sample and core analysis, all types electric, etc.), formations and pressure tests, and directional surveys, should be attached hereto, to the local office. 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 DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, 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
Red Bed	0	650		Red Bed	159	
Anhydrite	650	1468		Anhydrite	1195	
Salt	1468	2053		Salt	1230	
Anhydrite & Dolomite	2053	3135		Yates	3020	
Dolomite	3135	3450				
TOTAL DEPTH		3450				
PBTD		3240				

NOV 29 1984
O.C.D.
HOBBS OFFICE



COPY TO

HOBBS

U. S. LAND OFFICE **Las Cruces**SERIAL NUMBER **050107 (b)**

LEASE OR PERMIT TO PROSPECT

UNITED STATES

RECEIVED

DEPARTMENT OF THE INTERIOR APR 23 1959

GEOLOGICAL SURVEY

U. S. GEOLOGICAL SURVEY
HOBBS, NEW MEXICO

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company L. S. Lodge, Caroline Hunt Sands & Lloyd R. Sands Address 1113 Continental Bank Building Fort Worth 2, Texas

Lessor or Tract Mary E. Wills Federal Field Jalmat State New Mexico

Well No. 1 Sec. 33 T. 26S R. 37E Meridian NMPM County Lea

Location 160 ft. N. of S. Line and 660 ft. E. of W. Line of Sec. 33 Elevation 2969
(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

Date April 20, 1959Title Production Manager

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

Commenced drilling April 5, 1959, 19 59 Finished drilling April 14, 19 59

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from none to 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 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>5/8</u>	<u>24.7</u>	<u>3</u>	<u>Spring</u>	<u>517</u>	<u> </u>	<u>none</u>	<u>none</u>	<u> </u>	<u>Surface</u>

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
<u>5/8</u>	<u>517</u>	<u>400</u>	<u>Halliburton</u>	<u>9.0</u>	<u>Circ. out</u>

PLUGS AND ADAPTERS

Heaving plug—Material Length Depth set See * below

Adapters—Material Size

SHOOTING RECORD

PLUGS AND ADAPTERS

Heaving plug—Material Length Depth set **See * below**
 Adapters—Material Size

SHOOTING RECORD

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

TOOLS USED

Rotary tools were used from feet to **3381** feet, and from feet to feet

Cable tools were used from feet to 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

....., Driller Driller
 Driller Driller

FORMATION RECORD

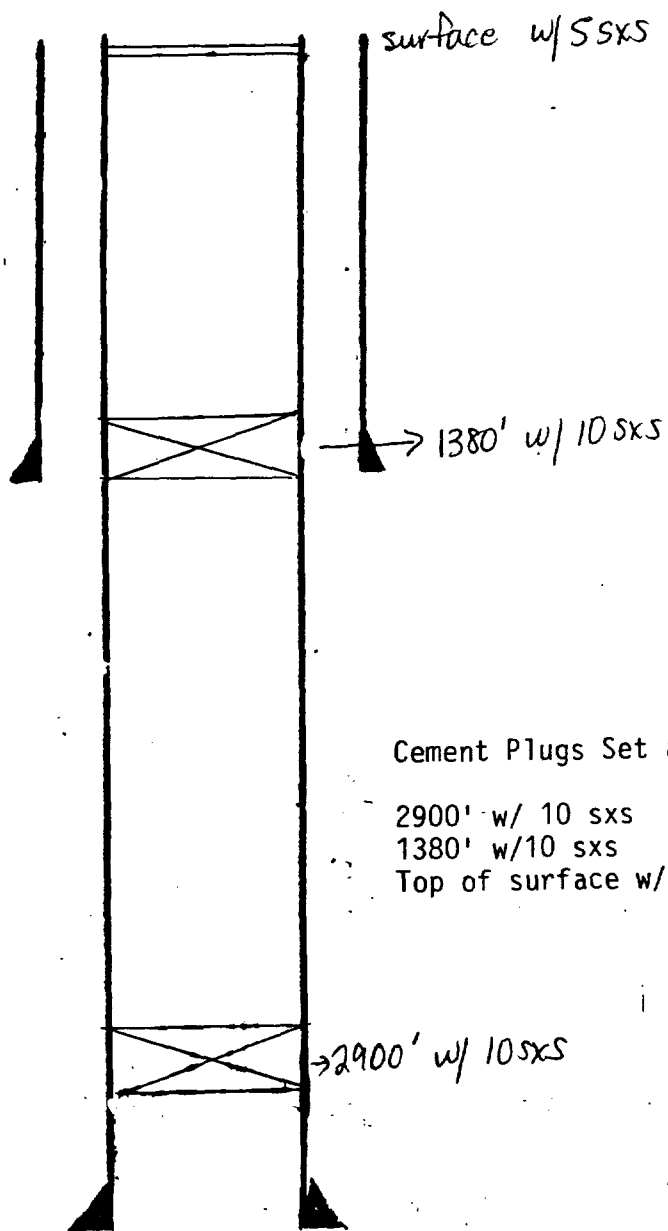
FROM—	TO—	TOTAL FEET	FORMATION
	568	568	Surface, red beds
	1193	625	Red beds & salt
1193	2910	1726	Salt & anhydrite
2910	3381	Lime-462	Lime - TD
Cement Plugs set at			2900' with 10 sacks
			1380' with 10 sacks
			top of surface with 5 sacks

ILLEGIBLE

Surface Casing 8 5/8"
Depth Set 617'
Cement 400 sxs

Production String _____
Depth Set _____
Cement _____

Perforations _____
Tubing Depth _____



Cement Plugs Set at:

2900' w/ 10 sxs
1380' w/ 10 sxs
Top of surface w/ 5 sxs

OPERATOR Hodges (Sands)
LEASE AND WELL NAME Mary E. Wills Federal #5
LOCATION Sec. 33 T-26-S R-37-E
COUNTY AND STATE Lea County, New Mexico



STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
HOBBS DISTRICT OFFICE

7/15/96

GOVERNOR

POST OFFICE BOX 1980
HOBBS, NEW MEXICO 88241-1980
(505) 393-6161

OIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

RE: Proposed:

MC	_____
DHC	_____
NSL	_____
NSP	_____
SWD	<u>X</u>
WFX	_____
PMX	_____

Gentlemen:

I have examined the application for the:

<u>MR Drilling Co</u>	<u>Wills Federal</u>	<u># 1-D</u>	<u>34-265-37e</u>
Operator	Lease & Well No.	Unit	S-T-R

and my recommendations are as follows:

OK JS

Yours very truly,

Jerry Sexton
Jerry Sexton
Supervisor, District 1

/ed