2000 POST OAK BOULEVARD / SUITE 100 / HOUSTON, TEXAS 77056-4400

CORPORATION

(713) 296-6000

February 17, 1994

State of New Mexico
Energy and Minerals Department
Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico 87504

Attn: David Catanach

RE: Application to Inject
Form C-108
State 3 No. 1
Bar U Field (Mississippian)
Lea County, New Mexico

Dear Mr. Catanach:

Attached please find a revised copy of the above referenced C-108 packet on our State 3 No. 1. The revision includes an Exhibit "H" concerning an affirmative statement that geological and engineering data has been examined and we find no evidence of any hydrologic connection between the disposal zone and any underground source of drinking water. All data and information needed for this packet is now completed. We look forward to your examination of this request and hope to hear back from you soon with an affirmative response.

If you have any questions or concerns please contact the engineer on this project, Ceci Leonard, at (713) 296-6306 or myself at (713) 296-6240.

Sincerely,
Apache Corporation

Carolyn Huntoon
Engineering Technician

Attachment

cc: State of New Mexico
Engineering and Minerals Department
Oil Conservation Division
1000 W. Broadway
Hobbs, New Mexico 88240

MW

February 9, 1994

State of New Mexico
Energy and Minerals Department
Oil Conservation division
310 Old Santa Fe Trail
Santa Fe, New Mexico 87501

Attn: David Catanach

RE: Application to Inject
Form C-108
State 3 No. 1
Bar U Field (Mississippian)
Lea County, New Mexico

Dear Gentlemen:

Attached please find a revised C-108 packet for the above referenced well. We are applying for authorization to inject produced Devonian water into the State 3 No. 1 located in Section 3, T9S, R32E, Unit Letter G. Apache is requesting authorization to inject into the Mississippian and the Devonian.

Within the packet we made a revision to Exhibit "B" noting Open Hole intervals. The original packet contains the original copy of the newspaper notice that was published on January 19, 1994.

If you have any questions or need further information concerning this application, please do not hesitate to call myself at (713) 296-6240 or Ceci Leonard at (713) 296-6306.

Sincerely,
Apache Corporation

Carolyn Huntoon

Carolyn Huntoon
Engineering Technician

Enclosure

cc: State of New Mexico
Energy and Minerals Department
Oil Conservation Division
1000 W. Broadway
Hobbs, New Mexico 88240

2000 POST OAK BOULEVARD / SUITE 100 / HOUSTON, TEXAS 77056-4400

CORPORATION

(713) 296-6000

January 19, 1994

State of New Mexico
Energy and Minerals Department
Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico 87504

Attn: William J. Lemay

RE: Application to Inject
Form C-108
State 3 No. 1
Bar U Field (Mississippian)
Lea County, New Mexico

Dear Gentlemen:

Attached please find Apache Corporation's application for authorization to inject produced Devonian water into the State 3 No.1 located in Section 3, T9S, R32E, Unit Letter G. Apache is requesting authorization to inject into the Mississippian and the Devonian.

The State 3 No. 1 is currently completed in the Mississippian from 10,695' to 10,897'. The well was initially completed in 1978 and has produced 19,200 BO and 9,600 MCF to date. The well is currently producing uneconomically at 15 BOPM and is the only Mississippian producer in the area. Given the $900,000 cost to drill and complete an 11,000' well and the poor performance of the State 3 No. 1, the Mississippian is not an economically viable drilling prospect.

The state 3 No. 1 will serve as the water disposal well for the MW operated Button Up Unit. The Button Up Unit No. 1 is the only well in the Unit, and it is producing 125 BOPD and 450 BWPD from the Devonian. The disposal charges currently being incurred by the well exceed $20,000 per month and will increase as water production increases. The high operating expense will cut short the economic life of the well.

The Devonian in the Button Up Unit No. 1 is approximately 300' high structurally to the Devonian in the State 3 No. 1. The State 3 No. 1 only penetrated the tip 14' of the Devonian, therefore, Apache is recommending that 50' of open hole section be drilled to ensure adequate disposal capacity.

For further details please refer to the attached application. Should you have any questions please do not hesitate to contact me at (713) 296-6240.

Sincerely,
Apache Corporation

Carolyn Huntoon
Engineering Technician
Drilling and Production Dept.

Attachments

cc: Ceci Leonard
Tim Wall

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION
POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501

FORM C-108
Revised 7-1-81

APPLICATION FOR AUTHORIZATION TO INJECT

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

II. Operator: APACHE CORPORATION

Address: 2000 POST OAK BLVD., SUITE 100, HOUSTON, TEXAS 77056-4400

Contact party: Carolyn Huntoon Phone: (713) 296-6240

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: Carolyn Huntoon Title Engineering Tech III

Signature: Carolyn Huntoon Date: 1/19/94

* 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. Log submitted with completion papers.

DISTRIBUTION: Original and one copy to Santa Fe with one copy to the appropriate Division district office.

EXHIBIT "A"

III A.

LEASE NAME: STATE 3 #1
BAR U FIELD (MISSISSIPPIAN)
LEA COUNTY, NEW MEXICO

LOCATION: SEC. 3, T-9S, R-32E
2310' FNL, 1980' FEL OF SEC.

CASING: 12 3/4" CSA 375' W/400 SX CIRC TO SURF; 8 5/8" CSA 3600' 800 SX CMT TOP AT 600'; 4 1/2" CSA 11,208' W/625 SX CMT TOC 9806'

TUBING: 2-3/8" N-80 EUE PLASTIC COATED TUBING LANDED AT 10,600'.

PACKER: GUIBERSON UNIPKR VI SET AT 10,600'.

EXHIBIT "B"

III B.

(1) INJECTION FORMATIONS: MISSISSIPPIAN AND DEVONIAN

(2) INJECTION INTERVALS:

CURRENT PERFORATIONS:	10,691-695'
	10,703-723'
	10,734-738'
	10,893-897'
OPEN HOLE:	11,192-242'

(3) ORIGINAL PURPOSE: PROPOSED DEVONIAN PRODUCER

(4) N/A

(5) THE PROPOSED INJECTION INTERVALS ARE THE MISSISSIPPIAN AND THE DEVONIAN. THE NEXT HIGHER OIL/GAS ZONE IS THE PENNSYLVANINAN (BOUGH), THE BASE OF WHICH IS AT 9,240' IN THE STATE 3 NO. 1. THE CLOSEST ACTIVE PENN PRODUCER IS THE STATE B 32 LOCATED IN SECTION 1, T9S, R32E, APPROXIMATELY 1.5 MILES EAST OF THE STATE 3. NO. 1.

THE STATE 3 NO. 1 IS CURRENTLY PRODUCING UNECONOMICALLY FROM THE MISSISSIPPIAN WITH PERFORATIONS FROM 10,695' TO 10,897'. THE WELL HAS PRODUCED 19,200 BO AND 9,600 MCF SINCE IT WAS PLACED ON PRODUCTION IN 1978. THE COST TO DRILL AND COMPLETE AN 11,000' WELL IS ESTIMATED AT $900,000 SO THE MISSISSIPPIAN IS NOT A VIABLE DRILLING PROSPECT EVEN AT VERY OPTIMISTIC PRICING SCENARIOS. NO OTHER MISSISSIPPIAN PRODUCTION HAS BEEN ESTABLISHED IN THE AREA.

THE DEVONIAN IS PRODUCING IN THE BUTTON UP UNIT NO. 1 LOCATED IN SECTION 10, T9S, R32E, 0.75 MILES SOUTH OF THE STATE 3 NO. 1. THIS WELL IS PRODUCING 125 BOPD AND 450 BWPD FROM THE DEVONIAN. THE STATE 3 NO. 1 IS 270' LOW TO THE THE BUTTON UP UNIT NO. 1 AND IS PROPOSED AS THE DISPOSAL WELL FOR THIS PRODUCER. THE DEVONIAN IS THE DEEPEST PRODUCTIVE INTERVAL IN THE AREA.

EXHIBIT C

Apache

Apache

Apache

Apache

Opal

4362

33

Hamon, Jake L.
Magnolia State
11130

34

35

Yates

Yates

Harding Charles
11161

4

3

11094

Yates

MW

MW Petroleum
State "10"
10,990'

Yates

ROBERTS 1935
LAT 33-33-15.3
LON 103-38-57.1

Reading Bates
Union Oil St

Yates

4550

nray Dx Oil Co
M. State Bb

9340

9

10

Major Glebel Forst
Gulf State

Amerada Pet Corp. 11490
State Sr B
2

11360

16

15

Amerada Pet Corp.
State Srb

11117

11511

EXHIBIT "D"

VI.

CHARLES F. HARDING #1 PHILLIPS STATE

2310' FSL 2248' FEL SEC. 3-9S-32E

SPUD: 3-21-78. COMP: 7-26-78 ELEV: 4416' GRD TD: 11,094' DEVONIAN.

CASING: 12 3/4" 376'/400SX, 8 5.8" 3682'/1025 SX, 4 1/2" 4420'/300 SX.
COMP INFO: RAN LOGS @ TD; PB TO 4420'; PERFS (SAN AND) 4210-40', 4248-70' (OA); A/7000 GALS 15%; S/LD W/NS; RAN SN, FRXL AND GRDL LOGS; C/FORSTER.

TOPS (EL) SAN AND 3490', GLOR 4887' CLFK 5690', TUBB 6363', ABO 7205', WOLFC 8208', CISCO 8876', CANY 9212, STRAWN 9753', ATOKA 9894', MISS. 10354', WDFD 10,950', DEV 11,076'.

API NO: 30-025-25869

THIS IS THE ONLY WELL OF INTEREST WITHIN THE REVIEW AREA.

EXHIBIT "E"

VII

(1) PROPOSES AVERAGE AND MAXIMUM DAILY RATE AND VOLUME OF FLUIDS TO BE INJECTED: AVERAGE OF 2500 BWPD WITH A MAXIMUM OF 4000 BWPD.

(2) CLOSED

(3) PROPOSED AVERAGE AND MAXIMUM INJECTION PRESSURE: AVG 300# AND MAX 1,000#.

(4) DEVONIAN; ANALYSIS ATTACHED.

(5) N/A

EXHIBIT "F"

VIII GEOLOGICAL DATA:

INJECTION ZONE:

MISSISSIPPIAN -	DEPTH	10,438'
	THICKNESS	600' GROSS
	LITHOLOGY	CHERTY LIMESTONE
DEVONIAN -	DEPTH	11,178'
	THICKNESS	450' GROSS (ESTIMATED)
	LITHOLOGY	FRACTURED DOLOMITE

UNDERGROUND SOURCES OF DRINKING WATER:

GEOLOGIC NAME - OGALLALA
DEPTH TO BOTTOM - 300'

IX STIMULATION PROGRAM:

TREAT DEVONIAN OPEN HOLE WITH 5000 GALLONS 15% NEFE HCL ACID.

P. O. BOX 1468
MONAHANS, TEXAS 79756
PH. 943-3234 OR 563-1040

Martin Water Laboratories, Inc.

709 W. INDIANA
MIDLAND, TEXAS 79701
PHONE 683-4521

RESULT OF WATER ANALYSES

LABORATORY NO. 129310
TO: Mr. George Ward — SAMPLE RECEIVED 12-2-93
P. O. Box 848, Wink, TX 79789 — RESULTS REPORTED 12-6-93

COMPANY Apache Corporation LEASE As listed
FIELD OR POOL
SECTION ___ BLOCK ___ SURVEY ___ COUNTY Lea STATE NM
SOURCE OF SAMPLE AND DATE TAKEN:
NO. 1 Raw water - taken from Davis Ranch windmill. (Fresh)
NO. 2 Raw water - taken from Friar Ranch tank. (Fresh)
NO. 3 Produced water - taken from State "10" #1. (Produced)
NO. 4
REMARKS: 3. Devonian

CHEMICAL AND PHYSICAL PROPERTIES	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.	1.0018	1.0015	1.0591	
pH When Sampled				
pH When Received	7.24	7.47	6.25	
Bicarbonate as HCO_3	210	210	488	
Supersaturation as $CaCO_3$				
Undersaturation as $CaCO_3$				
Total Hardness as $CaCO_3$	400	132	10,600	
Calcium as Ca	116	34	3,440	
Magnesium as Mg	27	11	486	
Sodium and/or Potassium	46	131	27,251	
Sulfate as SO_4	219	135	1,295	
Chloride as Cl	71	74	48,293	
Iron as Fe	0.06	0.03	6.5	
Barium as Ba				
Turbidity, Electric				
Color as Pt				
Total Solids, Calculated	689	596	81,253	
Temperature °F.				
Carbon Dioxide, Calculated				
Dissolved Oxygen,				
Hydrogen Sulfide	0.0	0.0	0.0	
Resistivity, ohms/m at 77° F.	11.57	12.90	0.110	
Suspended Oil				
Filtrable Solids as mg/l				
Volume Filtered, ml				
Nitrate, as N	1.5	1.8	--	

Results Reported As Milligrams Per Liter

Additional Determinations And Remarks: The undersigned certifies the above to be true and correct to the best of his knowledge and belief.

Form No. 3

By _____
Waylan C. Martin, M.A.

EXHIBIT "H"

XII

Please use this document as an affirmative statement that I have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone in the State 3 No.1 and any underground source of drinking water.

Apache Corporation

By: John Polasek

Its: SR. STAFF Geologist

Date: 2-16-94

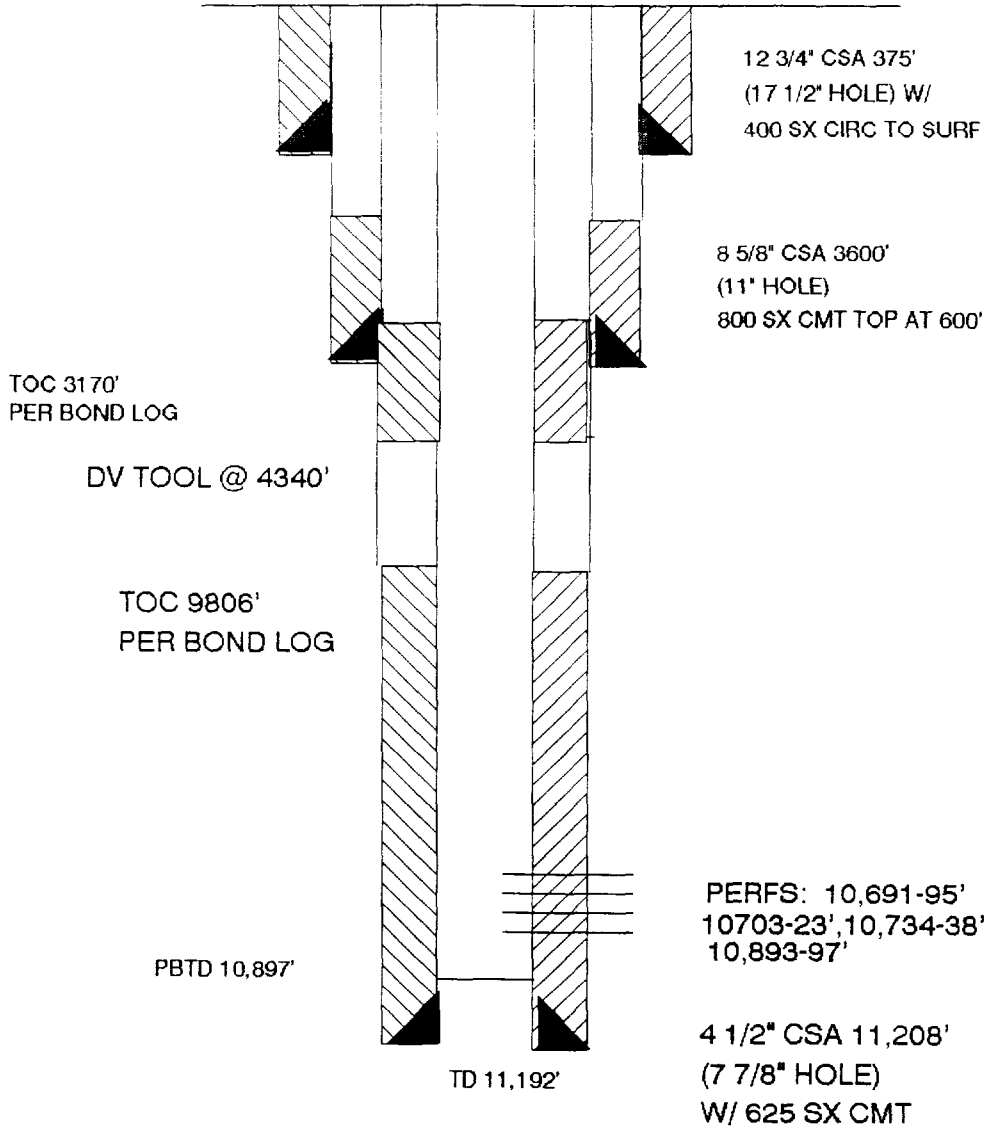
APACHE CORPORATION

STATE "3" #1

BAR - U FIELD (MISSISSIPPIAN)
2310' FNL & 1980' FEL
LEA COUNTY, NEW MEXICO

ENGR: CECI LEONARD — Prepared by: C. HUNTOON

GR: 4415'



2000 POST OAK BOULEVARD / SUITE 100 / HOUSTON, TEXAS 77056-4400

CORPORATION

(713) 296-6000

Debbie Schilling
Lovington Leader
Legal Notices Dept.
Via Fax (505) 396-5775

Dear Debbie:

Below please find the legal notice we would like to have published in the next issue of the Lovington Leader. If all looks satisfactory or if you have any further questions please give me a call at (713) 296-6240. After publishing, please provide me with an affidavit. Please advise as to the cost of publishing and I will forward you a check to cover the cost.

Thank you so much for your help and attention into this matter.

Sincerely,
Apache Corporation

Carolyn Huntoon
Engineering Technician

NOTICE OF APPLICATION FOR FLUID INJECTION PERMIT

APACHE CORPORATION, 2000 POST OAK BLVD., SUITE 100, HOUSTON, TEXAS 77056-4400 has applied to the State of New Mexico Energy and Minerals Department for authorization to inject produced Devonian water into the State 3 No 1 well locate in section 3, T9S, R32E, Unit letter G. Apache is requesting authorization to inject into the Mississippian and the Devonian.

Requests for public hearing from persons who can show they are adversely affected, or requests for further information concerning only aspects of the application should be submitted in writing, within fifteen days of publication, to the State of New Mexico Energy and Minerals Department, Oil Conservation Division, P.O. Box 2088, Santa Fe, New Mexico, 87501.

Affidavit of Publication

STATE OF NEW MEXICO)
) ss.
COUNTY OF LEA)

Joyce Clemens being first duly sworn on oath deposes and says that he is Adv. Director of THE LOVINGTON DAILY LEADER, a daily newspaper of general paid circulation published in the English language at Lovington, Lea County, New Mexico; that said newspaper has been so published in such county continuously and uninterruptedly for a period in excess of Twenty-six (26) consecutive weeks next prior to the first publication of the notice hereto attached as hereinafter shown; and that said newspaper is in all things duly qualified to publish legal notices within the meaning of Chapter 167 of the 1937 Session Laws of the State of New Mexico.

That the notice which is hereto attached, entitled

Notice Of Application For Fluid Injection Permit

a ..... the

..... County of Lea

State of New Mexico, was published in a regular and entire issue of THE LOVINGTON DAILY LEADER and not in any supplement thereof, on each ..... same day of the week, for one (1) day consecutive, beginning with the issue of

January 19, 19 94

and ending with the issue of

January 19, 19 94

And that the cost of publishing said notice is the sum of $ 12.99

which sum has been (Paid) (Assessed) as Court Costs

Joyce Clemens

Subscribed and sworn to before me this 21st day of January, 19 94

Mrs. Jean Hencier
Notary Public, Lea County, New Mexico

My Commission Expires Sept. 28, 19 94

LEGAL NOTICE
NOTICE OF APPLICATION FOR FLUID INJECTION PERMIT

APACHE CORPORATION, 2000 POST OAK BLVD., SUITE 100, HOUSTON, TEXAS 77056-4400 has applied to the State of New Mexico Energy and Minerals Department for authorization to inject produced Devonian water into the Gaye S No. 1 well located in section 3, T9S, R32E, Unit letter G. Apache is requesting authorization to inject into the Mississippian and the Devonian.

Requests for public hearing from persons who can show they are adversely affected, or requests for further information concerning only aspects of the application should be submitted in writing, within fifteen days of publication, to the State of New Mexico Energy and Minerals Department, Oil Conservation Division, P.O. Box 2088, Santa Fe, New Mexico, 87501.
Published in the Lovington Daily Leader January 19, 1994.

January 18, 1994

Surface Owner
State of New Mexico
3830 N. Grimes, Suite C
Hobbs, New Mexico 88240

Leasehold Owner
Bass Enterprises Production Co.
P. O. Box 2760
Midland, Texas 79705

Yates Petroleum Corporation
105 S. 4th Street
Artesia, New Mexico 88210

RE: Application for Authorization to Inject
Form C-108
State 3 no. 1
Bar U Field (Mississippian)
Lea County, New Mexico

Gentlemen:

Attached are copies of a completed C-108 and it's exhibits, along with a plat of Apache's lease, which we have filed with the State of New Mexico Energy and Minerals Dept., Oil Conservation Dept.

Sincerely,
Apache Corporation

Carolyn Huntoon
Engineering Technician

Attachments

cc: State of New Mexico
Energy and Minerals Department
Oil Conservation Division
Santa Fe, New Mexico 87504

Is your RETURN ADDRESS completed on the reverse side?

- Complete items 1 and/or 2 for additional services.
- Complete items 3, and 4a & b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

1. ☐ Addressee's Address
2. ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

Leasehold Owner
Bass Enterprises
Production CO
P.O. Box 2760
Midland, TX 79705

4a. Article Number: P894 555325

4b. Service Type
☐ Registered ☐ Insured
☐ Certified ☐ COD
☐ Express Mail ☒ Return Receipt for Merchandise

7. Date of Delivery: 1-21-94

5. Signature (Addressee)

8. Addressee's Address (Only if requested and fee is paid)

6. Signature (Agent): Charlie D. Nestal

PS Form 3811, December 1991 ☆U.S. GPO: 1993—352-714 **DOMESTIC RETURN RECEIPT**

Thank you for using Return Receipt Service.

Is your RETURN ADDRESS completed on the reverse side?

SENDER:

- Complete items 1 and/or 2 for additional services.
- Complete items 3, and 4a & b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

1. ☐ Addressee's Address
2. ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

SURFACE OWNER

STATE OF NEW MEXICO
3830 N. GRIMES, SUITE C
HOBBS, NEW MEXICO 88240

4a. Article Number: P894 555324

4b. Service Type
☐ Registered ☐ Insured
☐ Certified ☐ COD
☐ Express Mail ☒ Return Receipt for Merchandise

7. Date of Delivery: 1-24-94

5. Signature (Addressee): Leon Anderson

8. Addressee's Address (Only if requested and fee is paid)

6. Signature (Agent)

PS Form 3811, December 1991 ☆U.S. GPO: 1993—352-714 **DOMESTIC RETURN RECEIPT**

Thank you for using Return Receipt Service.

Is your RETURN ADDRESS completed on the reverse side?

SENDER:

- Complete items 1 and/or 2 for additional services.
- Complete items 3, and 4a & b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

1. ☐ Addressee's Address
2. ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

Yates Petroleum Corp.
105 S. 4th Street
Artesia, New Mexico
88210

4a. Article Number: P894 555326

4b. Service Type
☐ Registered ☐ Insured
☐ Certified ☐ COD
☐ Express Mail ☒ Return Receipt for Merchandise

7. Date of Delivery: 1-24-94

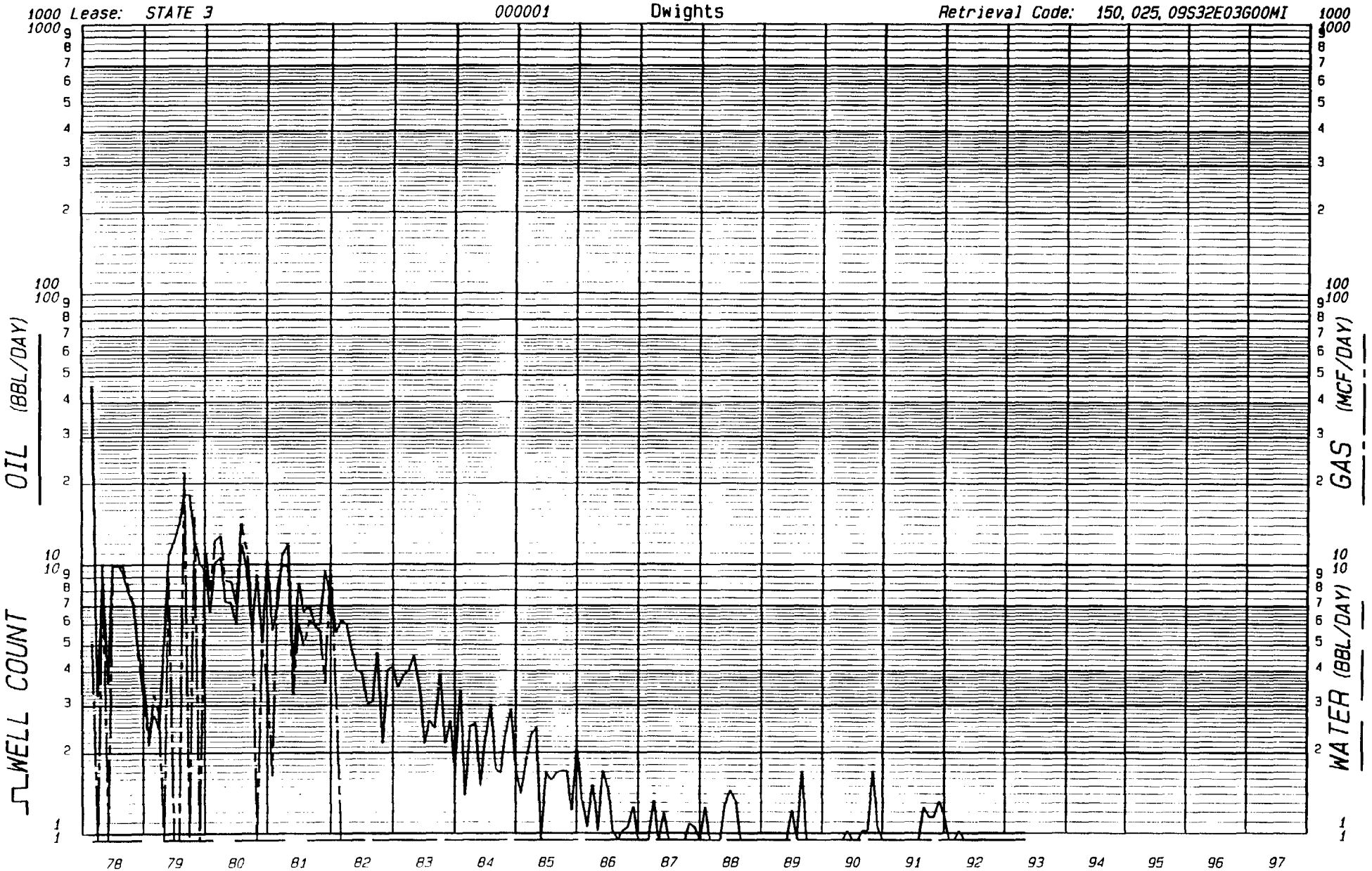
5. Signature (Addressee)

8. Addressee's Address (Only if requested and fee is paid)

6. Signature (Agent)

PS Form 3811, December 1991 ☆U.S. GPO: 1993—352-714 **DOMESTIC RETURN RECEIPT**

Thank you for using Return Receipt Service.



County: LEA State: NM
Field: BAR-U (MISSISSIPPIAN) MI
Reservoir: MISSISSIPPIAN
Operator: HARDING CHARLES F
Oil Cum: 19204 Gas Cum: 9549
Location: 3G 9S 32E

F.P. Date 02-78

Date: 09-02-93

DWIGHTS ENERGYDATA, INC.
OIL LEASE HISTORY
NEW MEXICO OIL SOUTHEAST

RUN DATE: 11/11/93
Published 10/93
(#150,025,09S32E03G00MI)

OPERATOR (#304383)	WELL NAME	WELL #
HARDING CHARLES F	STATE 3	000001

LOCATION	STATE	DIST	COUNTY (#025)	LEASE #
3G 9S 32E	NM	2	LEA	83175

API #	FIELD (#8004636)	RESERVOIR
30-025-2568600	BAR-U (MISSISSIPPIAN)	M MISSISSIPPIAN

TOTAL DEPTH	UPPER PERF	LOWER PERF	GAS GATH	LIQ GATH SCURP	GAS GRAV	LIQ GRAV	TEMP GRAD

COMP DATE	1ST PROD DATE	LAST PROD DATE	STATUS DATE	STATUS
	7802	9306		ACT

CUM THRU LPD OIL/BBLS	OIL CUM SINCE DATE	CUM THRU LPD CSGHD GAS/MCF	CASINGHEAD CUM SINCE DATE
19234	FPDAT	9551	FPDAT

DWIGHTS ENERGYDATA, INC.
HARDING CHARLES F
STATE 3

RUN DATE: 11/11/93
Published 10/93
(#150,025,09S32E03G00MI)

*** ANNUAL PRODUCTION HISTORY ***

YEAR	OIL BBLS	CASINGHEAD GAS/MCF	WATER BBLS
1978	3464	2070	0
1979	3576	1976	0
1980	3021	2990	0
1981	2740	2278	5
1982	1570	111	11
1983	1129	12	12
1984	822	12	12
1985	624	12	12
1986	433	12	12
1987	313	12	12
1988	304	12	12
1989	286	12	12
1990	330	12	12
1991	303	12	12
1992	228	12	12
1993	91	6	6

DWIGHTS ENERGYDATA, INC. RUN DATE: 11/11/93
HARDING CHARLES F Published 10/93
STATE 3 (#150,025,09S32E03G00MI)

*** MONTHLY PRODUCTION HISTORY ***

MONTH	OIL BBLS	CUM OIL BBLS	CASINGHEAD GAS/MCF	CUM CASINGHEAD	WATER BBLS	DAYS ON
FEB	1383	1383	155	155	0	
MAR	99	1482	0	155	0	
APR	270	1752	300	455	0	
MAY	110	1862	0	455	0	
JUN	299	2161	300	755	0	
JUL	305	2466	300	1055	0	
AUG	282	2748	300	1355	0	
SEP	243	2991	255	1610	0	
OCT	218	3209	220	1830	0	
NOV	146	3355	140	1970	0	
DEC	109	3464	100	2070	0	
1978	3464	3464	2070	2070	0	
JAN	70	3534	65	2135	0	
FEB	84	3618	100	2235	0	
MAR	75	3693	85	2320	0	
APR	152	3845	0	2320	0	
MAY	329	4174	270	2590	0	
JUN	367	4541	0	2590	0	
JUL	427	4968	0	2590	0	
AUG	551	5519	661	3251	0	
SEP	551	6070	0	3251	0	
OCT	376	6446	451	3702	0	
NOV	307	6753	0	3702	0	
DEC	287	7040	344	4046	0	
1979	3576	7040	1976	4046	0	
JAN	201	7241	241	4287	0	
FEB	309	7550	371	4658	0	
MAR	323	7873	388	5046	0	
APR	221	8094	265	5311	0	
MAY	219	8313	263	5574	0	
JUN	181	8494	217	5791	0	
JUL	360	8854	432	6223	0	
AUG	288	9142	346	6569	0	
SEP	172	9314	206	6775	0	
OCT	279	9593	0	6775	0	
NOV	155	9748	150	6925	0	
DEC	313	10061	111	7036	0	
1980	3021	10061	2990	7036	0	

DWIGHTS ENERGYDATA, INC. RUN DATE: 11/11/93
HARDING CHARLES F Published 10/93
STATE 3 (#150,025,09S32E03G00MI)

*** MONTHLY PRODUCTION HISTORY ***

MONTH	OIL BBLS	CUM OIL BBLS	CASINGHEAD GAS/MCF	CUM CASINGHEAD	WATER BBLS	DAYS ON
JAN	172	10233	50	7086	0	
FEB	208	10441	250	7336	0	
MAR	329	10770	299	7635	0	
APR	360	11130	300	7935	0	
MAY	122	11252	100	8035	5	
JUN	259	11511	180	8215	0	
JUL	203	11714	150	8365	0	
AUG	213	11927	188	8553	0	
SEP	181	12108	180	8733	0	
OCT	181	12289	171	8904	0	
NOV	286	12575	110	9014	0	
DEC	226	12801	300	9314	0	
1981	2740	12801	2278	9314	5	
JAN	169	12970	100	9414	0	-
FEB	188	13158	1	9415	1	28
MAR	181	13339	1	9416	1	31
APR	146	13485	1	9417	1	30
MAY	122	13607	1	9418	1	31
JUN	120	13727	1	9419	1	30
JUL	93	13820	1	9420	1	31
AUG	94	13914	1	9421	1	31
SEP	142	14056	1	9422	1	30
OCT	66	14122	1	9423	1	31
NOV	123	14245	1	9424	1	30
DEC	126	14371	1	9425	1	31
1982	1570	14371	111	9425	11	
JAN	106	14477	1	9426	1	31
FEB	117	14594	1	9427	1	28
MAR	122	14716	1	9428	1	31
APR	138	14854	1	9429	1	30
MAY	110	14964	1	9430	1	31
JUN	66	15030	1	9431	1	30
JUL	80	15110	1	9432	1	31
AUG	75	15185	1	9433	1	31
SEP	118	15303	1	9434	1	30
OCT	66	15369	1	9435	1	31
NOV	80	15449	1	9436	1	30
DEC	51	15500	1	9437	1	31
1983	1129	15500	12	9437	12	

DWIGHTS ENERGYDATA, INC.
HARDING CHARLES F
STATE 3

RUN DATE: 11/11/93
Published 10/93
(#150,025,09S32E03G00MI)

*** MONTHLY PRODUCTION HISTORY ***

MONTH	OIL BBLS	CUM OIL BBLS	CASINGHEAD GAS/MCF	CUM CASINGHEAD	WATER BBLS	DAYS ON
JAN	104	15604	1	9438	1	31
FEB	42	15646	1	9439	1	29
MAR	76	15722	1	9440	1	31
APR	78	15800	1	9441	1	30
MAY	46	15846	1	9442	1	31
JUN	70	15916	1	9443	1	30
JUL	90	16006	1	9444	1	31
AUG	53	16059	1	9445	1	31
SEP	51	16110	1	9446	1	30
OCT	72	16182	1	9447	1	30
NOV	88	16270	1	9448	1	30
DEC	52	16322	1	9449	1	31
1984	822	16322	12	9449	12	
JAN	43	16365	1	9450	1	31
FEB	56	16421	1	9451	1	28
MAR	71	16492	1	9452	1	31
APR	75	16567	1	9453	1	30
MAY	26	16593	1	9454	1	31
JUN	51	16644	1	9455	1	30
JUL	48	16692	1	9456	1	31
AUG	51	16743	1	9457	1	31
SEP	52	16795	1	9458	1	30
OCT	52	16847	1	9459	1	31
NOV	37	16884	1	9460	1	30
DEC	62	16946	1	9461	1	31
1985	624	16946	12	9461	12	
JAN	40	16986	1	9462	1	31
FEB	32	17018	1	9463	1	28
MAR	46	17064	1	9464	1	28
APR	31	17095	1	9465	1	30
MAY	52	17147	1	9466	1	31
JUN	45	17192	1	9467	1	30
JUL	31	17223	1	9468	1	31
AUG	26	17249	1	9469	1	31
SEP	31	17280	1	9470	1	30
OCT	32	17312	1	9471	1	31
NOV	38	17350	1	9472	1	30
DEC	29	17379	1	9473	1	31
1986	433	17379	12	9473	12	

DWIGHTS ENERGYDATA, INC. RUN DATE: 11/11/93
HARDING CHARLES F Published 10/93
STATE 3 (#150,025,09S32E03G00MI)

*** MONTHLY PRODUCTION HISTORY ***

MONTH	OIL BBLS	CUM OIL BBLS	CASINGHEAD GAS/MCF	CUM CASINGHEAD	WATER BBLS	DAYS ON
JAN	30	17409	1	9474	1	-
FEB	24	17433	1	9475	1	28
MAR	40	17473	1	9476	1	31
APR	26	17499	1	9477	1	30
MAY	36	17535	1	9478	1	31
JUN	22	17557	1	9479	1	-
JUL	1	17558	1	9480	1	30
AUG	25	17583	1	9481	1	31
SEP	16	17599	1	9482	1	30
OCT	33	17632	1	9483	1	30
NOV	32	17664	1	9484	1	30
DEC	28	17692	1	9485	1	-
1987	313	17692	12	9485	12	
JAN	38	17730	1	9486	1	31
FEB	15	17745	1	9487	1	29
MAR	16	17761	1	9488	1	31
APR	21	17782	1	9489	1	30
MAY	39	17821	1	9490	1	31
JUN	44	17865	1	9491	1	30
JUL	40	17905	1	9492	1	31
AUG	17	17922	1	9493	1	31
SEP	13	17935	1	9494	1	30
OCT	10	17945	1	9495	1	31
NOV	26	17971	1	9496	1	-
DEC	25	17996	1	9497	1	31
1988	304	17996	12	9497	12	
JAN	26	18022	1	9498	1	31
FEB	27	18049	1	9499	1	28
MAR	24	18073	1	9500	1	31
APR	19	18092	1	9501	1	30
MAY	18	18110	1	9502	1	31
JUN	37	18147	1	9503	1	30
JUL	0	18147	1	9504	1	31
AUG	51	18198	1	9505	1	31
SEP	30	18228	1	9506	1	30
OCT	10	18238	1	9507	1	31
NOV	18	18256	1	9508	1	30
DEC	26	18282	1	9509	1	31
1989	286	18282	12	9509	12	

DWIGHTS ENERGYDATA, INC. RUN DATE: 11/11/93
HARDING CHARLES F Published 10/93
STATE 3 (#150,025,09S32E03G00MI)

*** MONTHLY PRODUCTION HISTORY ***

MONTH	OIL BBLS	CUM OIL BBLS	CASINGHEAD GAS/MCF	CUM CASINGHEAD	WATER BBLS	DAYS ON
JAN	29	18311	1	9510	1	31
FEB	17	18328	1	9511	1	28
MAR	17	18345	1	9512	1	31
APR	29	18374	1	9513	1	30
MAY	31	18405	1	9514	1	31
JUN	10	18415	1	9515	1	30
JUL	23	18438	1	9516	1	31
AUG	31	18469	1	9517	1	31
SEP	31	18500	1	9518	1	30
OCT	51	18551	1	9519	1	31
NOV	32	18583	1	9520	1	30
DEC	29	18612	1	9521	1	31
1990	330	18612	12	9521	12	
JAN	2	18614	1	9522	1	31
FEB	28	18642	1	9523	1	28
MAR	10	18652	1	9524	1	31
APR	19	18671	1	9525	1	30
MAY	29	18700	1	9526	1	31
JUN	21	18721	1	9527	1	30
JUL	11	18732	1	9528	1	31
AUG	38	18770	1	9529	1	31
SEP	35	18805	1	9530	1	30
OCT	35	18840	1	9531	1	31
NOV	40	18880	1	9532	1	30
DEC	35	18915	1	9533	1	31
1991	303	18915	12	9533	12	
JAN	8	18923	1	9534	1	31
FEB	22	18945	1	9535	1	29
MAR	31	18976	1	9536	1	31
APR	27	19003	1	9537	1	30
MAY	26	19029	1	9538	1	31
JUN	17	19046	1	9539	1	30
JUL	1	19047	1	9540	1	31
AUG	20	19067	1	9541	1	31
SEP	19	19086	1	9542	1	30
OCT	22	19108	1	9543	1	31
NOV	12	19120	1	9544	1	30
DEC	23	19143	1	9545	1	31
1992	228	19143	12	9545	12	
JAN	12	19155	1	9546	1	31
FEB	16	19171	1	9547	1	28
MAR	17	19188	1	9548	1	31
APR	16	19204	1	9549	1	30
MAY	17	19221	1	9550	1	-
JUN	13	19234	1	9551	1	30
1993	91	19234	6	9551	6	

DISTRIBUTION
NTA FE
E
.G.S.
ND OFFICE
ERATOR

NEW MEXICO OIL CONSERVATION COMMISSION
WELL COMPLETION OR RECOMPLETION REPORT AND LOG

YPE OF WELL
OIL WELL [XX] GAS WELL [ ] DRY [ ] OTHER

YPE OF COMPLETION
EW WELL [X] WORK OVER [ ] DEEPEN [ ] PLUG BACK [ ] DIFF. RESVR. [ ] OTHER

me of Operator
harles F. Harding

dress of Operator
312 Oak Lawn Avenue - Dallas, Texas 75219

cation of Well
LETTER "J" LOCATED 2310 FEET FROM THE South LINE AND 2248
East LINE OF SEC. 3 TWP. 9-S RGE. 32-E NMPM

Phillips State
Wildcat
Lea

Date Spudded	Date T.D. Reached	Date Compl. (Ready to Prod.)	Elevations (DF, RKB, RT, GR, etc.)
21-78	5-16-78	7-7-78	4416.1 GR

Total Depth	P.B. Plug Back T.D.	If Multiple Compl., How Many	Intervals Drilled By
11,094'	4450'	NA	→ 0'-11,094'

Producing Interval(s), of this completion — Top, Bottom, Name

n Andres

ILLEGIBLE

Type Electric and Other Logs Run

dewall Neutron, Forexo Guard Log

No
No

CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB. FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
12 3/4"	49#	376'	17 1/2"	Circulated	None
8 5/8"	24#&32#	3682'	11"	Circulated	None
4 1/2"	11.6#	4450'	7 7/8"	300 sks Class "H" Cmt. - Top @ 3650'	

LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN

TUBING RECORD

SIZE	DEPTH SET	PACKER SET
2 3/8"	4200'	None

Perforations Record (Interval, size and number)

4210'-4240' 2 SPF
4270'-4284' 2 SPF

ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
4210'-4284'	7000 gals. 15% Acetic

PRODUCTION

First Production	Production Method (Flowing, gas lift, pumping — Size and type pump)	Well Status (Prod. or Shut-in)
one		Shut In

Date of Test	Hours Tested	Choke Size	Prod'n. For Test Period →	Oil — Bbl.	Gas — MCF	Water — Bbl.	Gas-Oil Ratio
one							

Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate →	Oil — Bbl.	Gas — MCF	Water — Bbl.	Oil Gravity — API — (Corr.)

Disposition of Gas (Sold, used for fuel, vented, etc.)

Test Witnessed By

List of Attachments

I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.

NEW MEXICO OIL CONSERVATION COMMISSION

ILLEGIBLE

SUNDRY NOTICES AND REPORTS ON WELLS

Charles F. Harding

4312 Oak Lawn Avenue, Dallas, Texas, 75219

Phillips-St

1

Wildcat

J 2310 South 2248

East 3 9-S 32-E

4416 GR

Lea

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

1. Set CIBP @ 4167', top @ 4165'. Ran dump bailer w/5 sax. Spotted 35' cement plug from 4130-4165'.
2. Ran tbg. to 4100' & circulated hole with mud.
3. Shot 4½" csg. @ 3004'. Pulled & laid down 74 jts. (2998') 4½" csg. Ran tbg. to 3054' & circ. hole with mud. Pump 40 sax. plug. Pull 25 jts. tbg. 9-21-78.
4. 9-22-78. Ran tbg. & check top of plug @ 2920. 40 sax. 2920-3054'.
5. Pulled tbg. to 1790'. Spot 35 sax. plug 1690-1790'.
6. Pulled tbg. Cut off head. Pump 10 sax. plug in surface. Placed top marker. Rig down & move off 9-22-78.

NEW MEXICO OIL CONSERVATION COMMISSION

SUNDRY NOTICES AND REPORTS ON WELLS

OIL WELL [X] GAS WELL [ ] OTHER-

CHARLES F. HARDING

4317 OAK LAWN AVENUE, DALLAS, TEXAS 75219

PHILLIPS-STATE

1

Location of Well

UNIT LETTER J 2310 FEET FROM THE South LINE AND 2248 FEET FROM THE East LINE, SECTION 3 TOWNSHIP 9-S RANGE 32-E

WILDCAT

15. Elevation (Show whether DF, RT, GL, etc.)

4416 GR

LEA

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

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK [ ]
TEMPORARILY ABANDON [ ]
PULL OR ALTER CASING [ ]
PLUG AND ABANDON [ ]
CHANGE PLANS [ ]
OTHER [ ]

SUBSEQUENT REPORT OF:

REMEDIAL WORK [ ]
COMMENCE DRILLING OPNS. [ ]
CASING TEST AND CEMENT JOB [ ]
ALTERING CASING
PLUG AND ABANDONMENT
OTHER

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work, SEE RULE 1103.

Plug from 11,089' to 10,984' with 75 sx. of class H cement.
Plug from 9,573' to 9,473' with 75 sx. of class H cement.
Plug from 8,876' to 8,776' with 75 sx. of class H cement.
Plug from 7,205' to 7,105' with 75 sx. of class H cement.
Plug from 4,887' to 4,787' with 75 sx. of class H cement.
Plug from 4,540' to 4,440' with 75 sx. of class H cement.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNED Stanley F. Harding TITLE Agent DATE June 24, 1980

APPROVED BY Drew Kinsolving

Completion Report-State 3 #1
Lea County, N.M.

78: Meeting in Dallas Office with completion engineer, Mr. Bob Murrell of Foy Boyd & Assoc. to discuss plans for completing State 3 #1.

- 9-78: Moved in reverse circulating equipment & the completion rig & rigged it up.

1-10-78: Rigged up reverse circulating equipment & blow out preventer. Went into hole with tubing, drill collars & drill bit and drilled out 2-stage tool @ 4300 ft. & shut in for night.

1-11-78: Everything frozen due to bad weather. 1 PM. started drilling float collar & cement inside the tubing.

1-12-78: Started drilling on float collar & cement again. Drilled it out. Also, drilled out float shoe. Then went to previous total depth (11,108') & circulated for 2 hours to clean the hole good. Shut in for night.

1-13-78: Nothing came into the hole over night. Drilled five feet of new hole. Cuttings indicated Vuggy (good) Porosity but no shows.

1-14-78: Acidized with 200 gals. acid & swabbed about 2/3 rds. of treatment fluid. No shows of oil or gas. Shut in for the weekend.

1-16-78: Swabbed back remainder of treatment fluid & then salt water. No shows of oil or gas. Set permanent bridge plug & ran Bond log & Gamma Ray log. Shut down for the night. Preparing to come up the hole and attempt a completion in the Mississippian Formation.

Devonian Test

1-17-78: Perforated lower Miss. 10,893 to 10,897 ft. and 10,734 to 10,738 ft. with one perforation per foot. Spotted 200 Gals. MOD 15% Acid at approximately 10,735 ft. Pulled packer back to 10,649 ft. & acidized with 4,000 Gals. MOD 15% acid, as follows: pumped 2,000 Gals. & dropped 5 balls, then 1,000 gals more & dropped 5 balls & they sealed off with good "balling action". Finished acidizing. Pressure broke @ 4,400 pounds & treated @ 4,200 lbs. at the rate of 1 1/2 bbls. acid per minute. Instant shut-in pressure was 4,000 lbs. After 1 hour opened well & flowed 50 bbls load fluid & quit flowing. At 7:30 P.M. shut-in well for the night.

1-18-78: 8 AM. open valve with no pressure & then fluid level dropped to 8,000 ft. Shut-in at 3 PM. Swabbed 10 bbls. oil & 15 bbls. water. Swabbed a total of 30 bbls. oil during the day. Shut in for the night. Decided to perforate upper Mississippian Formation.

1-19-78: Perforated Upper Miss. 10,703 to 10,723 ft. & 10,691 to 10,695 ft. with one perforation per two foot. Acidized with 4,000 Gals. of 15% MOD acid & dropped 20 balls with good action. Shut-in 1 1/2 hrs. pressure 900 lbs. Open & returned 1/2 fluid.

1-20-78: Pressure @ 8 AM. was 300 lbs. Open valve & flowed 25 bbls. fluid: 80 % oil & well quit flowing. Swabbed 3 hrs. Shut-in & pressure built to 300 lbs.

1-21-78: Pressure @ 8 AM. was 5,000 lbs. Opened valve & flowed 3 bbls. fluid & oil per minute. Pressure dropped rapidly. Shut in & built back to 300 lbs. Open 3 PM. flowed 10 bbls. oil & treatment fluid & pressure dropped & shut-in for the night.

1-22-78: Pressure @ 8 AM. was 1,100 lbs. Flowed wide open 9-10AM. 25 bbls. treatment fluid & 40% oil. 11-12AM. 27 bbl 60% oil. Pressure dropped to 200 lbs. Shut-in 12-1 PM. Pressure built to 300 lbs. Open 2-3 PM., Flowed 15 bbls fluid 40% oil & then died. Shut-in & reopened 4PM. pressure 100 lbs. made 11 bbls 60% oil, 5 PM. 200 lbs. pressure 15 bbls. 50% oil. 6 PM. 200 lbs. pressure made 7 bbls fluid 75% oil. Shut-in for the night.

1-23-78: Pressure @ 8 AM. was 1,325 lbs. Flowed approximately 5-7 bbls. oil per hour on 24/64 choke with estimated 200,000 to 300,000 cu. ft. gas per day. We plan to move in another rental tank so we can continue to test the well. Flowing pressures 200 lbs. to 300 lbs.

STATE 3 #1 - Completion Report (continued)
Lea County, New Mexico

1-78: Moved in 400 barrel rental test tank. Ran 20 hour Preliminary Test. Produced 99 bbls. oil and 4 bbls. acid water on 35/64 in. choke with 150 # tubing pressure. Then pinched the choke back to 25/64 in. & left it flowing oil and treatment fluid. Mailed form to the New Mexico Conservation Commission for temporary permission to sell the oil we now have on hand. Also, ordered two new 500 bbl. storage tanks which are to be delivered Thursday afternoon if the roads are passable by then for heavy equipment. (It is snowing in New Mexico today).

1-25-78: Well loaded up with treatment fluid during the night and quit flowing. Produced 60 bbls. oil plus 15 bbls. treatment fluid. Shut well in to build up the pressure. Opened well on 25/64 in. choke and it started flowing again. Left well flowing for the night with 100 lbs. tubing pressure.

1-26-78: Flowed 48 bbls. oil and a trace of treatment fluid in 24 hrs. on 25/64 in.choke. 30 lbs. tubing pressure.

1-27-78: Tanks and Heater-Treater moved to location late yesterday afternoon. C & O Services started hooking them up today. The well flowed 48 bbls. oil plus a trace of treatment fluid on 25/64 in. choke with 20 lbs. tubing pressure. We are still producing into the rented test tank.

1-28-78: Well shut in for 22 hrs. & pressure built to 1400 lbs. on the tubing. Produced 2 hrs. & it made 4 bbls. oil & no water on 25/64 in. choke. Then, reduced choke to 18/64 in. and left flowing for the night.

1-29-78: Produced for 24 hrs. on 18/64 in. choke. Made 56 bbls. total fluid:
48 bbls. oil and 8 bbls water
Tubing Pressure 30 lbs. Well is making an increasing amount of gas. Reduced choke size to 15/64 in.

1-30-78: 24 hrs. production on 15/64 in. with 40 lbs. tubing pressure and made 35 bbls. total fluid: 26 bbls. oil
9 bbls. water

1-31-78: 24 hrs. production on 15/64 in. choke with 40 lbs. tubing pressure made 65 bbls. fluid: 61 bbls. oil
4 bbls. water
Crew is connecting tank battery and heater-treater.

2-01-78: Produced 50 bbls oil and no water on 15/64 in. choke with 40 lbs. T.P. Crew is still working on hooking up tank battery and heater-treater.

2-02-78: Produced 52 bbls. oil and 22 bbls. water with 100 lbs. T.P. Kim Roy back pressure valve on heater-treater is bad and will have to be replaced. Can't start selling oil until the heater-treater is operative.

2-03-78: Flowed 24 hrs. on 12/64" choke. Produced 48 bbls. oil and 4 bbls. water with 230 lbs. T.P. - shut well in for 10 min. and pressure built to 250 lbs. Left well flowing on 12/64" choke. The valve on heater-treater has been replaced. We are now producing oil into our new tank battery.

2-04-78: Transferred oil from rented storage tanks through heater-treater into new tank battery. Well flowed 33 bbls. oil plus a trace of water on 12/64" choke with 220 lbs. T.P. Shut well in for 15 min. tubing pressure increased to 280 lbs.

2-05-78: Flowed 33 bbls. oil and trace of water. Tubing pressure 180 lbs. Shut in 15 min. and built to 240 lbs.

2-06-78: Flowed 39 bbls. oil and trace water. T.P. 190 lbs.

2-07-78: Phillips Petroleum ran a gas volume test on the well. Produced 33 bbls. oil on 10/64" choke- 160 lbs., tubing pressure.

2-08-78: 17 bbls. oil on 10/64" choke 140 lbs. T.P.

2-09-78: Well shut in most of the last 24 hrs. Tubing pressure 1200 lbs. Produced 3 bbls. oil on 10/64" choke.

2-10-78: 10/64" choke produced only gas and no oil or water. Choke freezing up. Opened choke to 15/64".

2-11-78: Shut in for bottom hole pressure build up Test.

STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

RECEIVED

'94 JAN 31 AM 8 50

OIL CONSERVATION DIVISION
HOBBS DISTRICT OFFICE

January 28, 1994

BRUCE KING
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 X
WFX_____
PMX_____

Gentlemen:

I have examined the application for the:

Apache Corp.	State 3	#1-G	3-9S-32E
Operator	Lease & Well No.	Unit	S-T-R

and my recommendations are as follows:

OK

Yours very truly,

Jerry Sexton
Supervisor, District 1

/ed