



STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

BRUCE KING
GOVERNOR

LARRY KEHOE
SECRETARY

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501
(505) 827-2434

April 7, 1980

Gulf Oil Exploration and Production Co.,
P. O. Box 670
Hobbs, New Mexico 88240

Gentlemen:

Enclosed herewith please find Administrative Order
No. SWD-222 for the following described well:

C. E. La Munyon WSW No. 1
located in Unit G of Section
22, Township 23 South,
Range 37 East, NMPM, Lea County,
New Mexico.

Very truly yours,

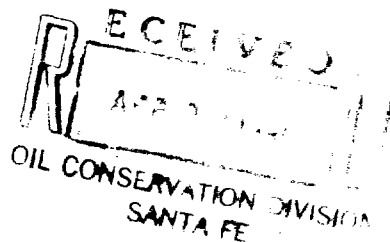
JOE D. RAMEY
Division Director

JDR/MH/og

cc: Oil Conservation Division
Box 1980
Hobbs, New Mexico



V. E. Staley
District Superintendent



Amoco Production Company

Post Office Box 68
Hobbs, New Mexico 88240

March 11, 1980

File: VES-986.51-331

Re: Waivers Consent for Multiple Completion
State "HQ" Well No. 1

Gulf Oil Corporation
P. O. Box 670
Hobbs, NM 88240

Gentlemen:

We are requesting your approval, as an offset operator, for the multiple completion of our State "HQ" Well No. 1, 960' FSL and 330' FEL, Section 26, T-18-S, R-34-E, Lea County, New Mexico. We have filed with the NMOCD in Santa Fe an application for multiple completion in the Undesignated Airstrip Bone Springs (Upper Zone) and in the Undesignated Wolfcamp (Lower Zone) both as oil wells. Please approve and return a signed copy of this letter to this office and one to the NMOCD in Santa Fe. Self-addressed envelopes are enclosed.

Yours very truly,

ORIGINAL SIGNED
BY V. E. STALEY

Approved: Gulf Oil Corp.

By: E. D. Keltner
for D. T. Berlin, Manager - Engineering
Date: April 1, 1980

Enclosures

cc: NMOCD
P.O. Box 2088
Santa Fe, NM 87501

S. J. Okerson
Houston, TX

200-220

Gulf Oil Exploration and Production Company

R. C. Anderson
PRODUCTION MANAGER, HOBBS AREA

March 27, 1980

P. O. Box 670
Hobbs, NM 88240

Re: C. E. LaMunyon WSW No. 1, 660'
FSL, 2180' FEL, Sec. 22-23S-37E,
Lea County, New Mexico, Convert
to Salt Water Disposal Well

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. Joe D. Ramey
New Mexico Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico 87501

Dear Sir:

Gulf Oil Corporation requests your administrative approval to convert our C. E. LaMunyon WSW No. 1, San Andres Pool, to a salt water disposal well in order that produced water from the LaMunyon Lease may be disposed into the San Andres pay.

Currently the aforementioned water is being disposed into the Teague Simpson McKee sand in our C. E. LaMunyon well No. 6, SWD 204, located approximately one mile southwest of the subject well; and in our C. E. LaMunyon well No. 9, SWD 187, located approximately three-fourths of a mile southwest of the subject well. Presently we are unable to dispose the entire volume of produced water into our Nos. 6 and 9 wells.

C. E. LaMunyon WSW No. 1, formerly the C. E. LaMunyon No. 31, was originally drilled to a depth of 6271 feet. After plugging back from the Teague Blinbry, the well was perforated in the San Andres (4207'-4548'). At that time, the well was a salt water supply well for the Teague Simpson McKee waterflood. The subject well was temporarily abandoned when the supplied water was no longer needed.

In support of this application, the following facts are submitted:

- (1) This application is in the interest of conservation and prevention of waste.
- (2) Attached is a diagrammatic sketch of C. E. LaMunyon WSW No. 1 and all offset wells (within a one-half mile radius) that have penetrated the zone of proposed injection.
- (3) An attached plat showing all wells which lie within a one-half mile radius of the subject well.



- (4) An attached plat showing all wells which lie within a two mile radius of the subject well.
- (5) Form C-108, "Application to Dispose of Salt Water by Injection into a Porous Formation".
- (6) Attached is a Water Compatibility Analysis from an EPA approved laboratory indicating that the disposal water and San Andres formation water are compatible with each other.

Your earliest consideration will be appreciated.

Yours very truly,



R. C. ANDERSON

JPO/RHB/jr

Attachments

cc: U.S. Geological Survey (Certified Mail)
P. O. Box 1157
Hobbs, NM 88240

Coins Ranch Corporation
P. O. Box 683
Eunice, NM 88231

OFFSET OPERATORS:

Texaco, Inc.
P. O. Box 728
Hobbs, NM 88240

Southwest Production Company
8333 Douglas, Suite 1100
Dallas, Texas 75225

NEW MEXICO OIL CONSERVATION COMMISSION

APPLICATION TO DISPOSE OF SALT WATER BY INJECTION INTO A POROUS FORMATION

OPERATOR GULF OIL CORPORATION		ADDRESS P. O. Box 670, Hobbs, NM 88240	
LEASE NAME C. E. LaMunyon	WELL NO. SWS 1	FIELD San Andres	COUNTY Lea
LOCATION UNIT LETTER 0 ; WELL IS LOCATED 660 FEET FROM THE South LINE AND 2180 FEET FROM THE East LINE, SECTION 22 TOWNSHIP 23S RANGE 37E N.M.P.M.			

CASING AND TUBING DATA

NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
SURFACE CASING	8-5/8"	887'	350	0'	Circulated
INTERMEDIATE	-	-	-	-	-
LONG STRING	5-1/2"	6271'	510	2300'	Calculated
TUBING	2-3/8" IPC	4100'	NAME, MODEL AND DEPTH OF TUBING PACKER Baker Model "D" Packer, proposed setting depth 4100'		
NAME OF PROPOSED INJECTION FORMATION San Andres		TOP OF FORMATION 3861'		BOTTOM OF FORMATION 5036'	
IS INJECTION THROUGH TUBING, CASING, OR ANNULUS? Tubing		PERFORATIONS OR OPEN HOLE? Perforations		PROPOSED INTERVAL(S) OF INJECTION 4207'-4548'	
IS THIS A NEW WELL DRILLED FOR DISPOSAL? No		IF ANSWER IS NO, FOR WHAT PURPOSE WAS WELL ORIGINALLY DRILLED? Oil Production(5517'-5783') Blinbry			HAS WELL EVER BEEN PERFORATED IN ANY ZONE OTHER THAN THE PROPOSED INJECTION ZONE? Yes
LIST ALL SUCH PERFORATED INTERVALS AND SACKS OF CEMENT USED TO SEAL OFF OR SQUEEZE EACH 5517'-5519', 5622'-5624', 5694'-5696', 5781'-5783': CIBP cap w/2 sx cmt					
DEPTH OF BOTTOM OF DEEPEST FRESH WATER ZONE IN THIS AREA 200'		DEPTH OF BOTTOM OF NEXT HIGHER OIL OR GAS ZONE IN THIS AREA 3600'		DEPTH OF TOP OF NEXT LOWER OIL OR GAS ZONE IN THIS AREA 5500'	
ANTICIPATED DAILY INJECTION VOLUME (BBLS.) 150	MINIMUM 350	MAXIMUM Open	OPEN OR CLOSED TYPE SYSTEM Open	IS INJECTION TO BE BY GRAVITY OR PRESSURE? Pressure	APPROX. PRESSURE (PSI) 1900
ANSWER YES OR NO WHETHER THE FOLLOWING WATERS ARE MINERALIZED TO SUCH A DEGREE AS TO BE UNFIT FOR DOMESTIC, STOCK, IRRIGATION, OR OTHER GENERAL USE - Yes		WATER TO BE DISPOSED OF Yes		NATURAL WATER IN DISPOSAL ZONE Yes	ARE WATER ANALYSES ATTACHED? Yes
NAME AND ADDRESS OF SURFACE OWNER (OR LESSEE, IF STATE OR FEDERAL LAND) Goins Ranch Corporation, P.O. Box 683, Eunice, NM 88231					
LIST NAMES AND ADDRESSES OF ALL OPERATORS WITHIN ONE-HALF (1/2) MILE OF THIS INJECTION WELL Texaco, Inc., P.O. Box 728, Hobbs, NM 88240 Southwest Production Company, 8333 Douglas, Suite 1100, Dallas, TX 75225					
HAVE COPIES OF THIS APPLICATION BEEN SENT TO EACH OF THE FOLLOWING? Yes		SURFACE OWNER Yes		EACH OPERATOR WITHIN ONE-HALF MILE OF THIS WELL Yes	
ARE THE FOLLOWING ITEMS ATTACHED TO THIS APPLICATION (SEE RULE 701-2)? Yes		PLAT OF AREA Yes		ELECTRICAL LOG No	DIAGRAMMATIC SKETCH OF WELL Yes

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

N. P. Sikes, Jr.
(Signature)

Area Engineer

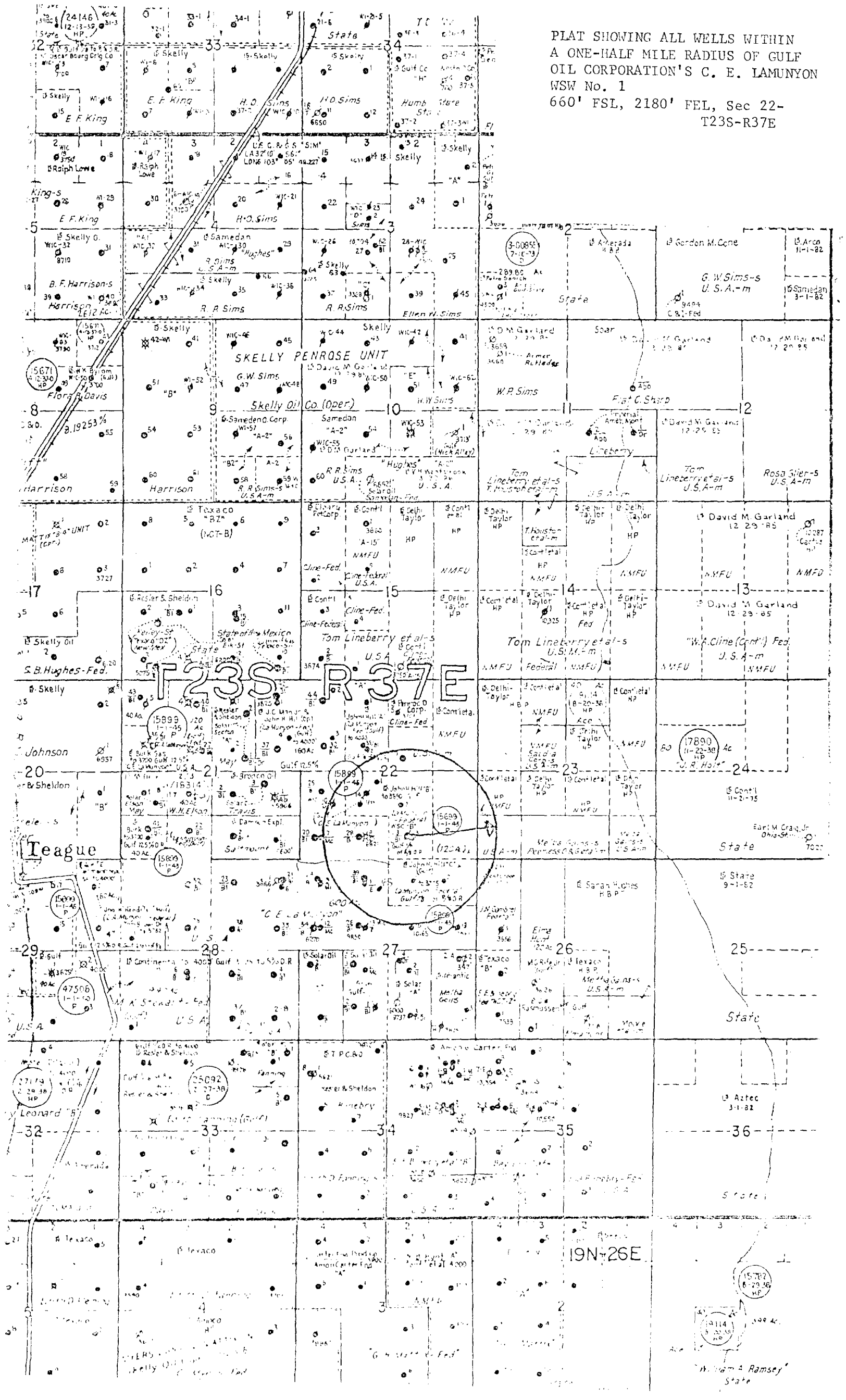
(Title)

March 27, 1980

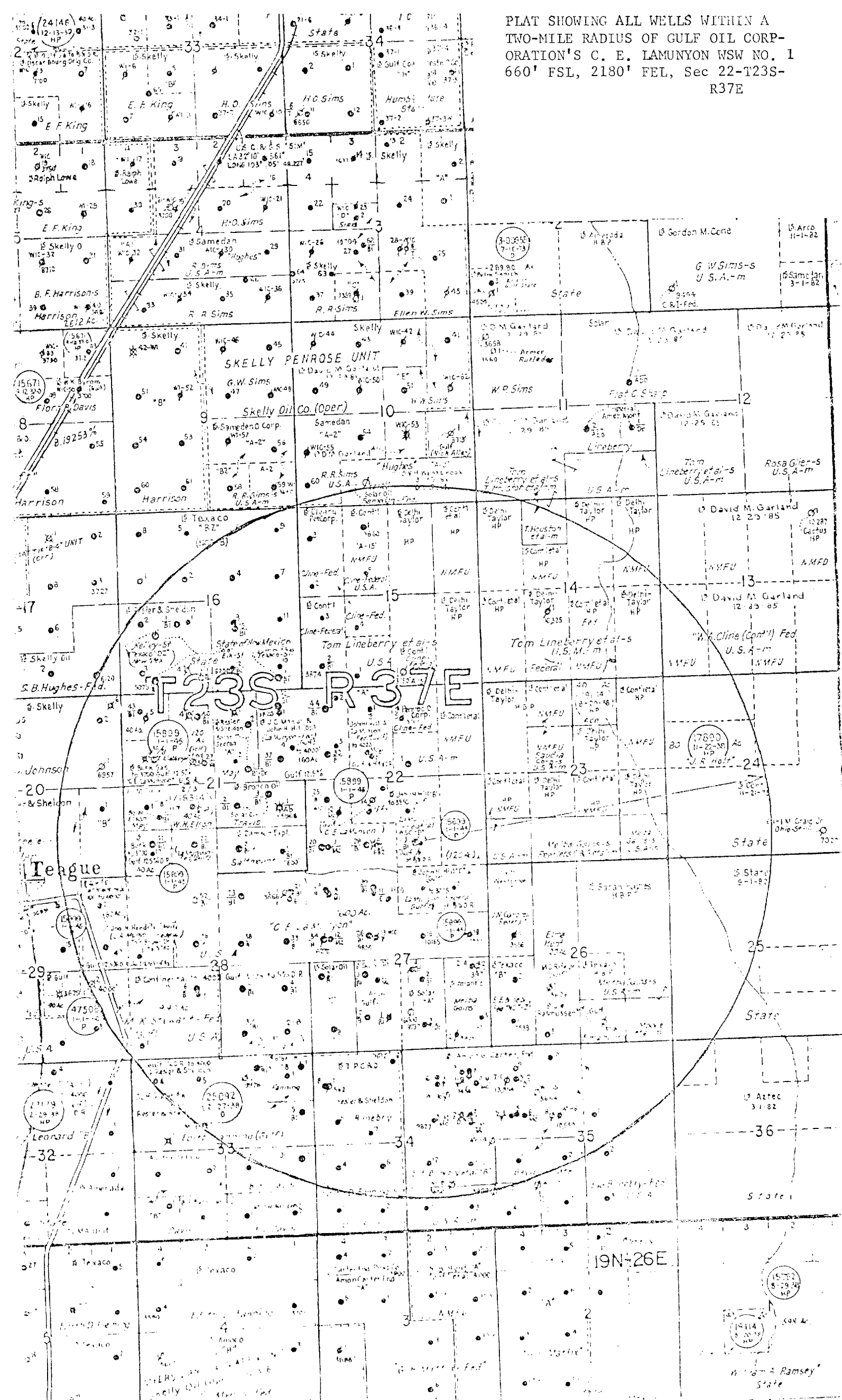
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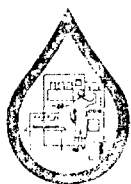
NOTE: Should waivers from the State Engineer, the surface owner, and all operators within one-half mile of the proposed injection well not accompany this application, the New Mexico Oil Conservation Commission will hold the application for a period of 15 days from the date of receipt by the Commission's Santa Fe office. If at the end of the 15-day waiting period no protest has been received by the Santa Fe office, the application will be processed. If a protest is received, the application will be set for hearing, if the applicant so requests. SEE RULE 701.

660' FSL, 2180' FEL, Sec 22-
T23S-R37E



PLAT SHOWING ALL WELLS WITHIN A
TWO-MILE RADIUS OF GULF OIL CORP-
ORATION'S C. E. LAMUNYON WSW NO. 1
660' FSL, 2180' FEL, Sec 22-T23S-
R37E





WOLF PETRO LAB, INC.

DIAL 915/366-9701
DIAL 915/366-7171

2411 WEST 42ND STREET

P. O. BOX 643
ODESSA, TEXAS

Gulf Oil Exploration and ⁷⁹⁷⁶⁰

LABORATORY REPORT

Charge Production Co.

Test No. WPL-80-214

Date of Run 3-21-80

Date Received 3-19-80

A Sample of Produced Water and Disposal Water from C.E. Lamunyon Lease
Secured from W.S.W. No. 1 - San Andres Formation and Disposal Water
At Lea County New Mexico Secured by _____
Purpose _____ Time _____ Date _____
Sampling Conditions: _____

SPECIAL ANALYSIS AND TESTS COMPATIBILITY OF WATERS

Method: Spectronic 20 @ 580 mu.

% Transmission of Light Pattern

	Initial	1 Hour	2 Hour	4 Hour	8 Hour
4 Distilled Water - Blank	100	100	100	100	100
6 Sample No. 1 - W.S.W. No. 1	97	98	98	98	97
8 Sample No. 2 - Disposal Water	78	80	81	80	82
10 Sample No. 3 - 25/75 Ratio	87	87	83	87	88
12 Sample No. 4 - 50/50 Ratio	90	91	90	89	90
14 Sample No. 5 - 75/25 Ratio	94	93	92	93	93

ADDITIONAL DATA AND REMARKS

NOTE: It is the Opinion of this Laboratory that these two waters are completely compatible with each other.

Run by: J. Wolf

Checked by: J. Wolf

Approved: _____

COPIES

5 - Mr. Robert Battey
P.O. Box 670
Hobbs, New Mexico 88240

1 - File

WELL DATA SHEET

EX-155110

Lease C. E. La Barge Well No. 1220-01 Pool San Andres Date 2-13-83
 Location 660' ESB 2180' EFL, Sec 22, T22S, R10E County Lin State N.M.

Zero Dist.

12 ' from
1800 to GL

Cmt. Circulated? Yes

3 5/8 " OD 24 # Surface
 Pipe set @ 887 ' w/ 350 sx

Cmt. Circulated? No
 TOC @ 2300 ' Calculated

Date Completed 4-5-83Well GL Elev. 3282'Prod. Formation Permian (unconformity)From 5517 ' to 5585 ' Yes

Init. Prod. _____ BOPD _____ BWP Date _____

Gas Vol. _____ MCF _____ GOR _____

Init. Inj. _____ BWP @ _____ psi Date _____

Initial Treatment _____

Subsequent Workover or Reconditioning:

4-27-83 Refracturing
IPRIP = 5448' Perforations 4205-4543
Acid 4205-4543, 4543-4543, 4543-4543
Installed 100' 6" pump, Total 22' 6" pump

6-17-86 TD 5117' - 5117' 5117' 5117'
4205-4543, 4543-4543, 4543-4543
100' 6" pump installed

* CIP performed on 2-12-80 in order to
obtain water sample. It was not
conducted due to CIP being
expensive.

Pres. Inj. _____ BWP @ _____ psi, Date _____

Pres. Prod. _____ BOPD _____ BWP Date _____

Gas Vol. _____ MCF _____ GOR _____

Pumping FL @ _____ ' Date _____

Static FL @ _____ ' Date _____

Pump Size _____ SPM _____ SL _____

Well Depth by SLM _____ ' Date _____

Tubing & Rod Data:

Remarks:

PETG-5443'

CIP - 4100' *

San Andres Perforations 4205-03

4205-03, 4310-04, 4400-05

4402-04, 4454-05, w/ 2 JHP

Cmt 5443'

CIP - 4100'

Temp. (4205-03) 5117-17, 5117-17

5117-17, 5117-17

Cmt 5443'

Gr. 35 " OD 15.50 # 6.1 Thd

Csg. _____

Set @ 887 ' w/ 350 sxTD 6281 ' 1

WELL DATA SHEET

Proposed CompletionLease C.E. Le Hays Well No. 42141 Pool San Andres Date 3-26-82Location 660' E 1/2 1/4 Sec 10, T2N, R10E County Box State N.M.

Zero Dist.

12 ' from
KDR to GRCmt. Circulated? YesPipe set @ 8 3/8 " OD 24 # Surface
Pipe set @ 880 ' w/ 350 sxCmt. Circulated? No
TOC @ 2300 ' CalculatedProposed 2 7/8" 4.70#, FUEL
880, J-55, IPC 14,

OK

Proposed Injection PWR Sol
at approx. 4100San Andres Pkts @ 4204'-22'; 4255'-
77'; 4362'-64'; 4423'-25'; 4452'-04';
4464'-43'; 4/2 JHFF

C100-3445

C100-3445Jensen Oblique Pkts @ 5317'-5920'Gr. 5 1/2 " OD 15.50 # 8 Thd
-55 Csg.
Set @ 6251 ' w/ 5 1/2 sxTD 1-9-81Date Completed 4-5-82
Well CL Elev. 3292'
Prod. Formation _____
From _____ ' to _____
Init. Prod. _____ BOPD _____ BWP Date _____
Gas Vol. _____ MCF _____ GOR _____
Init. Inj. _____ BWP @ _____ psi Date _____
Initial Treatment _____

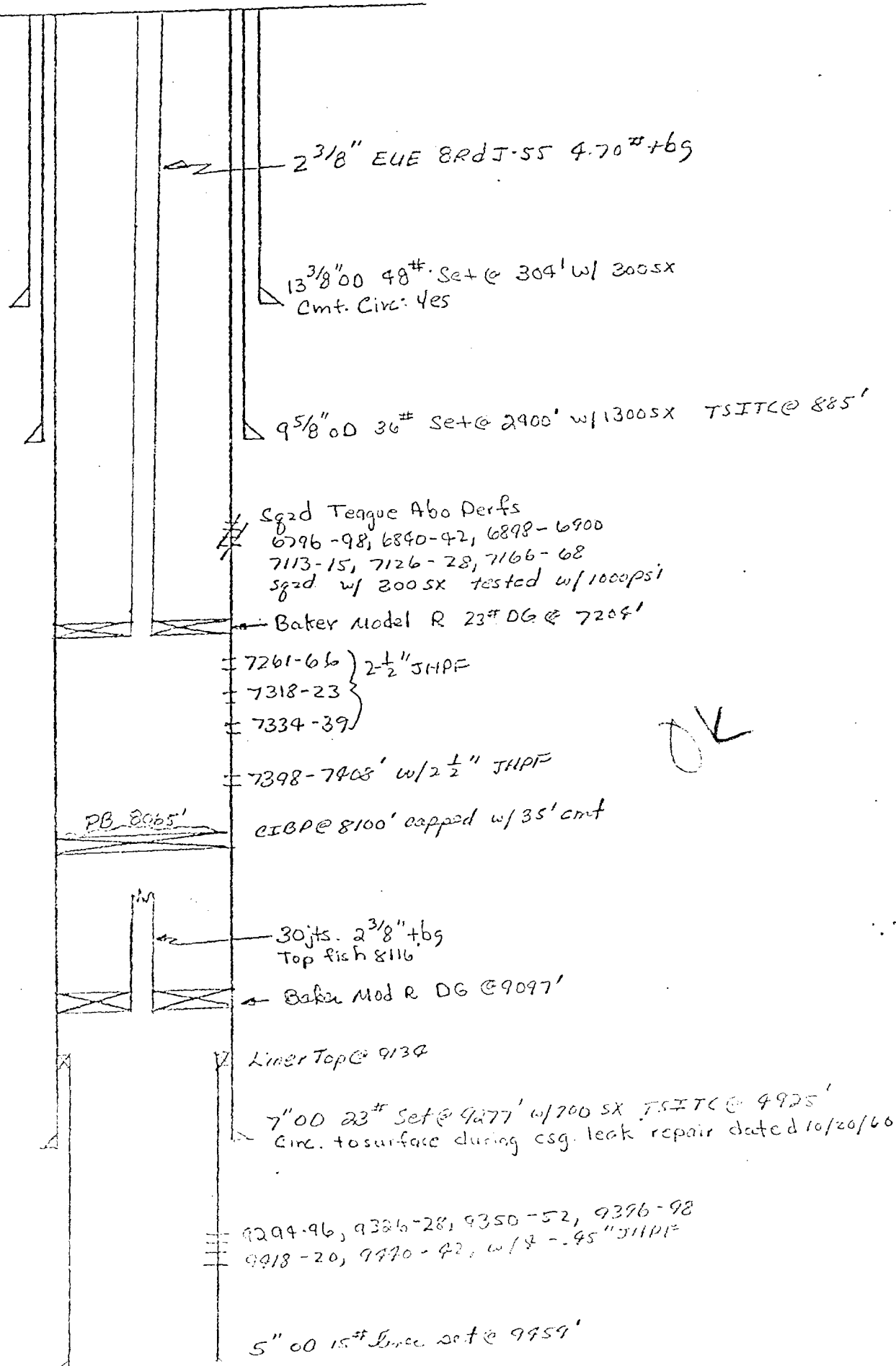
Subsequent Workover or Reconditioning:

Pres. Inj. _____ BWP @ _____ psi, Date _____
Pres. Prod. _____ BOPD _____ BWP Date _____
Gas Vol. _____ MCF _____ GOR _____
Pumping FL @ _____ ' Date _____
Static FL @ _____ ' Date _____
Pump Size _____ SPM _____ SL _____
Well Depth by SLM _____ ' Date _____

Tubing & Rod Data:

Remarks:

Location WOLF SWL Sec 22-235-37E Co Lea St NM



WELL DATA SHEET

LEASE SE 1/4 Sec 22 T33S R37E Well No. 3 Pool N. T33S R37E
 Location: 1650 FCL - 990 FWL County Law State New Mexico

GLE: 3292

KDB:
 H = 9.00

Initial Comp. Date: 10-26-49

Producing Formation: McKee

13 3/8 "OD 48 #Gr Zone Comp. Date Date Abn
 Set @ 305 w/ 300 sx
 Top of Cmt 300 by: CRC

100' 1062'

Treatment History: (Current Zone)

1 1/2 "OD 3/8 # Grade
 Set @ 2900 w/ 1300 sx
 Top of Cmt @ 1150 by: TS

Fix

2 3/8 EUE OR 4.70" J55189

7150' Baker catcher

7256-61 3' DEEPENING
 7290-45 3' 2" H/E

8295 TAC
 8290' CIBP

8360-2370 SILVERADO 1200
 200' 2" H/E

8540 TAC
 8575 CIBP

8628-52 } Monterey 1200
 8650-55 } 2 1/2" H/E 2-12-65

9028 TAC
 9100' CIBP

9179' Baker mat-L D Per

7 "OD 3/8 # Grade

Set @ 9311 w/ 800 sx

Top of Cmt @ 4125 by: TS

5" OD
 9276-1200
 9276 w/ 50 SX

Producing History:

Formation:

Month or Year Oil Water Gas

Last Test Dated:

BOPD BHPD MCFC

FL: Calc. Ppg. Eff:

Cu. Oil Cum. Gas

Remarks:

3P 100' 1062'

3-13-20

932-76

932-76

932-76

932-76

Case C.E. LAMUNYON Well No. 10 Pool No Tongue Devonian

Location 1650' FSL & 990' FWL County LEA State NM

UNIT L- SEC 22- T23S- R37E

GLE: 3292'

KDB: 8.00'
H = 8.00'

Initial Comp. Date: 10-26-49

Producing Formation: _____

Zone	Comp. Date	Date Abandon
9262-9415	11-15-17	5-13-17
7413-1111'	2-18-17	

13 3/8" - 48" SURF. CSK.
@ 305' w/ 300 SXS.
CMT. CIRC.

Treatment History: (Current Zone)

9 5/8" OD 36 # Grade

Set @ 2900' w/ 1300 sxs ON 7413-1111' (6-9-17) Acid. w/ 15% NE Acid
FIRST STAGE, @ 340' SXS.
Top of Cmt @ _____ by: _____
ON 2ND STAGE THRU DV-TOL
@ 1062'. NO TS RUN.
Top @ 1370'

Leak in 1" casing between 4215'-4245'
sqrd w/ 550 SXS TSITC @ 1695'

Top @ 1370'

2 3/8" OD 241 SXS
4.7 # T-55

Producing History:

Formation: Devonian

Month or Year	Oil	Wtr	Gas
10-29-17	57	3	194
12-17-17	40	0	105
4-22-18	22	0	192
5-7-79	11	12	257

Last Test Dated: 8-17-79

16 BOPD 12 BWPD — MCFPD

FL: _____ Calc. Ppg. Eff: _____

Cum. Oil 27,548 Cum. Gas 118,607

22-2 Baker Casing

7319-21 2 SHF
7319-42 2 SHF
7361-72 24 holes TO TOL
7375-28
7431-44' prod w/ 11 1/2" SHF

No. Tongue Devonian

POTD 9080'

← Halibut SV cmt returned @ 9085'
← 9197' BAKER MOD D PAPER

29 1/2" OD 23 # Grade 255

Set @ 9311' w/ 800 sxs

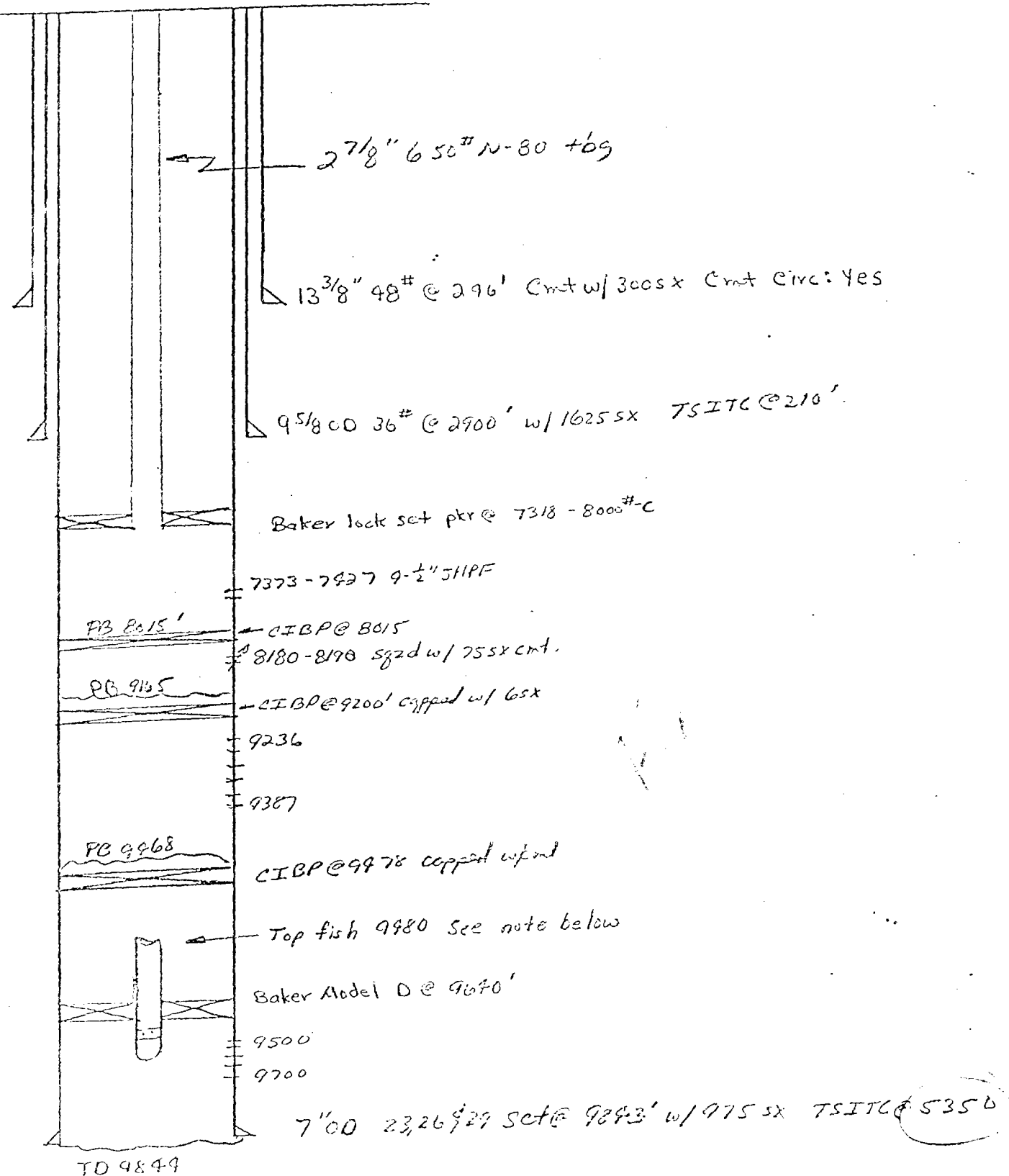
Top of Cmt @ 4875' by TS

Sqrd w/ 100 SXS
5" - 16.08" FJ LINER
FROM 9276' TO
9475'. CMT'D
750 SXS.

Remarks and Recommendation:

Prepared By: C.E. LAMUNYON

Location 660 FNL 5' 1980 FWL 27-235-37E Co Lea St NM



Note: Topdown: 4jt 2 7/8" +bg, SN,
1jt 2 7/8" +bg, Baker Anchor set 2 BSS.
1-2 3/8" PTR, 1jt 2 3/8" +bg BPOB

Lease C.E. Isalter, Jr. Well No. 146 Pool Texas Blinnburg Date 3-26-80
Location 1980' E 54th E 64th Sec 22-T22S-R35 County Lee State Mo.

H: 12'

Spud date: 2-27-50

By:

By: TS

5705'

OK

Blimington Parts @ 5375'-97',
5496'-73; 5566'-63; 5626'-
28'; & 5740'-42' w/4. 0.45
JHPF

PFTC=6265'

By: TS

[illegible]

Treatment History (Current Zone)

Producing History (Current Zone)

Month/Year	Oil	Water	Gas

Remarks and Recommendation:

Last Test Dated:

	EOPD	BMPD	MCFGPD
1. Name of the person or entity			
2. Address			
3. City			
4. State			
5. Zip			
6. Date of birth			
7. Sex			
8. Race			
9. Religion			
10. Education			
11. Occupation			
12. Marital status			
13. Number of children			
14. Social Security number			
15. Driver's license number			
16. Vehicle registration number			
17. Other identification numbers			
18. Other information			

Cum. Oil	Cum. Gas
----------	----------

Prepared By:

Date:

LEASE CE LAMARION Well No. 28 Pool TRADUC BLINABR

Location: 6606170 FUL S-20-20-20-20E County LA State NEBRASKA

GLE:

KDB: 30.11.8

Initial Comp. Date: _____

H = 12.7

Producing Formation: _____

Zone	Comp. Date	Date Abnd.
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Treatment History: (Current Zone)

8 5/8 "OD 24 # Grade _____

Set @ 889 ' w/ 340 sx

Top of Cmt @ Surface by: _____
CITC

Handwritten:
a TC 3326
Calc
1050

Handwritten:
2318 FULBRO T60

Producing History:

Formation: _____

Month or Year	Oil	Water	Gas
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Last Test Dated: _____

_____ BOPD _____ BWPD _____ MCFGPD

FL: _____ Calc. Ppg. Eff: _____

Cu. Oil _____ Cum. Gas _____

Remarks: _____

5 1/2 "OD 15.5 # Grade _____

Set @ 5000 w/ 470 sx

Top of Cmt @ _____ by: _____
CITC

PREPARED BY: 31 01 2010

WELL DATA SHEET

Lease C. E. L. L. Co. Well No. 38 Pool Teague Blk. Date 2-26-68
 Location 160' E. 1/4 Sec 27-T22N-R7E County Lee State N.C.

Zero Dist.

12 ' from PVC to GL

Cmt. Circulated? Yes

8 7/8 " OD 24 # Surface
 Pipe set @ 700 ' w/ 400 sx

Cmt. Circulated? No
 TOC @ 2650 ' (calculated)

2 1/2" OD. 3rd, 4.500, J-55
for Set @ 580' w/
SLM @ 580'

[Handwritten signature]

Date Completed 6-1-68
 Well GL Elev. 725
 Prod. Formation _____
 From _____ ' to _____
 Init. Prod. _____ BOPD _____ BOPD Date _____
 Gas Vol. _____ MCF _____ GOR _____
 Init. Inj. _____ BOPD @ _____ psi Date _____
 Initial Treatment _____

Subsequent Workover or Reconditioning:

Pres. Inj. _____ BOPD @ _____ psi, Date _____
 Pres. Prod. _____ BOPD _____ BOPD Date _____
 Gas Vol. _____ MCF _____ GOR _____
 Pumping FL @ _____ ' Date _____
 Static FL @ _____ ' Date _____
 Pump Size _____ SPM _____ SL _____
 Well Depth by SLM _____ ' Date _____

Tubing & Rod Data:

Remarks:

Oh. ... Prod. @ 5520-22
3600-43' 5520-22' 1" 14-26
4 5/8" 400' 14" 344'

5 1/2 " OD 15.50 # 6.1 Thd
 Gr. 25 , _____ Csg. _____
 Set @ 600 ' w/ 100 sx

WELL DATA SHEET

Lease C.E. Lee Property Well No. 46 Pool Impeded Tubb Pond Date 3-26-78
 Location 1730' E 31. E 1950' N 1300' S County Law State AL

Zero Dist.

11 ' from
HOC to GL

Cmt. Circulated? Yes

2 3/4 " OD 24 # Surface
 Pipe set @ 1096 ' w/ 500 sx

Cmt. Circulated? Yes
 TOC @ — ' by TS

276, 6.5, J-55 Tby
5-6387

OK

ILLEGIBLE

Imp. Tubb Pond Parts @ 6387-73;
 6420-51; 6444-50, 6447-73;
 6521-30; 6621-25 4/12/78 JWC
 8-6-78

Concrete Retainer @ 6658', Imp. 1
 20' from 11 100 sx.

Also prod. abandoned
 @ 6-77

6387-73 w/ 35' casing

11. 100' casing parts abandoned
 @ 12-78

2 1/2 " OD 15.5 # 2 1/2 Thd
 Gr. 11.8 Csg.
 Set @ 1096 ' w/ 100 sx

Date Completed 11-20-78Well GL Elev. 3287'

Prod. Formation

From — ' to — ' toInit. Prod. — BOPD — BWP Date —Gas Vol. — MCF — GOR —Init. Inj. — BWP @ — psi Date —

Initial Treatment

Defective casing at 6387' - 73'
Placed 20' of 11" casing
in 20' from 12-78
Abandoned 11" casing
at 6-77

Subsequent Workover or Reconditioning:

Pres. Inj — BWP @ — psi, Date —Pres. Prod — BOPD — BWP Date —Gas Vol. — MCF — GOR —Pumping FL @ — ' Date —Static FL @ — ' Date —Pump Size — SPM — SL —Well Depth by SLM — ' Date —

Tubing & Rod Data:

Remarks:

WELL DATA SHEET

Lease C. E. La Munn Well No. 422 Pool Town Abo Date 3-1-78
 Location 260'E, N. 32°30'W, Sec 27-T23N-R1E County Nowata State OK

Zero Dist.

12 ' from
422 to GL

Cmt. Circulated? Yes

2 1/2 " OD 2.4 # Surface
 Pipe set @ 1100 ' w/ 500 sx

Cmt. Circulated? Yes
 TOC @ --- ' by TS

278', 6.5", J-55 4677
Sec 8 7071', SNE 7033'
TAC @ 6543'

OK

Date Completed 3-1-78Well GL Elev. 3278'Prod. Formation _____
 From _____ ' to _____

Init. Prod. _____ BOPD _____ BOPD Date _____
 Gas Vol. _____ MCF _____ GOR _____

Init. Inj. _____ BOPD @ _____ psi Date _____

Initial Treatment _____

Originally completed in March
Tested 10 months later. Produced
2,593-573 & completed in the Town
Abo Pool

Subsequent Workover or Reconditioning:

ILLEGIBLE

Pres. Inj. _____ BOPD @ _____ psi, Date _____

Pres. Prod. _____ BOPD _____ BOPD Date _____

Gas Vol. _____ MCF _____ GOR _____

Pumping FL @ _____ ' Date _____

Static FL @ _____ ' Date _____

Pump Size _____ SPM _____ SL _____

Well Depth by SLM _____ ' Date _____

Tubing & Rod Data:

Remarks: _____

Town Abo Peris 6689-816720-22; 6731-24; 6755-3967 3-8; 6820-30; 6851-1168 4-1; 6900-05; 6944-2269 5-1; 7000-01; 7044-2270 6-1; 7100-01; 7144-2271 7-1; 7200-01; 7244-2272 8-1; 7300-01; 7344-2273 9-1; 7400-01; 7444-2274 10-1; 7500-01; 7544-2275 11-1; 7600-01; 7644-2276 12-1; 7700-01; 7744-2277 13-1; 7800-01; 7844-2278 14-1; 7900-01; 7944-2279 15-1; 8000-01; 8044-2280 16-1; 8100-01; 8144-2281 17-1; 8200-01; 8244-2282 18-1; 8300-01; 8344-2283 19-1; 8400-01; 8444-2284 20-1; 8500-01; 8544-2285 21-1; 8600-01; 8644-2286 22-1; 8700-01; 8744-2287 23-1; 8800-01; 8844-2288 24-1; 8900-01; 8944-2289 25-1; 9000-01; 9044-2290 26-1; 9100-01; 9144-2291 27-1; 9200-01; 9244-2292 28-1; 9300-01; 9344-2293 29-1; 9400-01; 9444-2294 30-1; 9500-01; 9544-2295 31-1; 9600-01; 9644-2296 32-1; 9700-01; 9744-2297 33-1; 9800-01; 9844-2298 34-1; 9900-01; 9944-2299 35-1; 10000-01; 10044-22100 36-1; 10100-01; 10144-22101 37-1; 10200-01; 10244-22102 38-1; 10300-01; 10344-22103 39-1; 10400-01; 10444-22104 40-1; 10500-01; 10544-22105 41-1; 10600-01; 10644-22106 42-1; 10700-01; 10744-22107 43-1; 10800-01; 10844-22108 44-1; 10900-01; 10944-22109 45-1; 11000-01; 11044-22110 46-1; 11100-01; 11144-22111 47-1; 11200-01; 11244-22112 48-1; 11300-01; 11344-22113 49-1; 11400-01; 11444-22114 50-1; 11500-01; 11544-22115 51-1; 11600-01; 11644-22116 52-1; 11700-01; 11744-22117 53-1; 11800-01; 11844-22118 54-1; 11900-01; 11944-22119 55-1; 12000-01; 12044-22120 56-1; 12100-01; 12144-22121 57-1; 12200-01; 12244-22122 58-1; 12300-01; 12344-22123 59-1; 12400-01; 12444-22124 60-1; 12500-01; 12544-22125 61-1; 12600-01; 12644-22126 62-1; 12700-01; 12744-22127 63-1; 12800-01; 12844-22128 64-1; 12900-01; 12944-22129 65-1; 13000-01; 13044-22130 66-1; 13100-01; 13144-22131 67-1; 13200-01; 13244-22132 68-1; 13300-01; 13344-22133 69-1; 13400-01; 13444-22134 70-1; 13500-01; 13544-22135 71-1; 13600-01; 13644-22136 72-1; 13700-01; 13744-22137 73-1; 13800-01; 13844-22138 74-1; 13900-01; 13944-22139 75-1; 14000-01; 14044-22140 76-1; 14100-01; 14144-22141 77-1; 14200-01; 14244-22142 78-1; 14300-01; 14344-22143 79-1; 14400-01; 14444-22144 80-1; 14500-01; 14544-22145 81-1; 14600-01; 14644-22146 82-1; 14700-01; 14744-22147 83-1; 14800-01; 14844-22148 84-1; 14900-01; 14944-22149 85-1; 15000-01; 15044-22150 86-1; 15100-01; 15144-22151 87-1; 15200-01; 15244-22152 88-1; 15300-01; 15344-22153 89-1; 15400-01; 15444-22154 90-1; 15500-01; 15544-22155 91-1; 15600-01; 15644-22156 92-1; 15700-01; 15744-22157 93-1; 15800-01; 15844-22158 94-1; 15900-01; 15944-22159 95-1; 16000-01; 16044-22160 96-1; 16100-01; 16144-22161 97-1; 16200-01; 16244-22162 98-1; 16300-01; 16344-22163 99-1; 16400-01; 16444-22164 100-1; 16500-01; 16544-22165 101-1; 16600-01; 16644-22166 102-1; 16700-01; 16744-22167 103-1; 16800-01; 16844-22168 104-1; 16900-01; 16944-22169 105-1; 17000-01; 17044-22170 106-1; 17100-01; 17144-22171 107-1; 17200-01; 17244-22172 108-1; 17300-01; 17344-22173 109-1; 17400-01; 17444-22174 110-1; 17500-01; 17544-22175 111-1; 17600-01; 17644-22176 112-1; 17700-01; 17744-22177 113-1; 17800-01; 17844-22178 114-1; 17900-01; 17944-22179 115-1; 18000-01; 18044-22180 116-1; 18100-01; 18144-22181 117-1; 18200-01; 18244-22182 118-1; 18300-01; 18344-22183 119-1; 18400-01; 18444-22184 120-1; 18500-01; 18544-22185 121-1; 18600-01; 18644-22186 122-1; 18700-01; 18744-22187 123-1; 18800-01; 18844-22188 124-1; 18900-01; 18944-22189 125-1; 19000-01; 19044-22190 126-1; 19100-01; 19144-22191 127-1; 19200-01; 19244-22192 128-1; 19300-01; 19344-22193 129-1; 19400-01; 19444-22194 130-1; 19500-01; 19544-22195 131-1; 19600-01; 19644-22196 132-1; 19700-01; 19744-22197 133-1; 19800-01; 19844-22198 134-1; 19900-01; 19944-22199 135-1; 20000-01; 20044-22200 136-1; 20100-01; 20144-22201 137-1; 20200-01; 20244-22202 138-1; 20300-01; 20344-22203 139-1; 20400-01; 20444-22204 140-1; 20500-01; 20544-22205 141-1; 20600-01; 20644-22206 142-1; 20700-01; 20744-22207 143-1; 20800-01; 20844-22208 144-1; 20900-01; 20944-22209 145-1; 21000-01; 21044-22210 146-1; 21100-01; 21144-22211 147-1; 21200-01; 21244-22212 148-1; 21300-01; 21344-22213 149-1; 21400-01; 21444-22214 150-1; 21500-01; 21544-22215 151-1; 21600-01; 21644-22216 152-1; 21700-01; 21744-22217 153-1; 21800-01; 21844-22218 154-1; 21900-01; 21944-22219 155-1; 22000-01; 22044-22220 156-1; 22100-01; 22144-22221 157-1; 22200-01; 22244-22222 158-1; 22300-01; 22344-22223 159-1; 22400-01; 22444-22224 160-1; 22500-01; 22544-22225 161-1; 22600-01; 22644-22226 162-1; 22700-01; 22744-22227 163-1; 22800-01; 22844-22228 164-1; 22900-01; 22944-22229 165-1; 23000-01; 23044-22230 166-1; 23100-01; 23144-22231 167-1; 23200-01; 23244-22232 168-1; 23300-01; 23344-22233 169-1; 23400-01; 23444-22234 170-1; 23500-01; 23544-22235 171-1; 23600-01; 23644-22236 172-1; 23700-01; 23744-22237 173-1; 23800-01; 23844-22238 174-1; 23900-01; 23944-22239 175-1; 24000-01; 24044-22240 176