



STATE OF NEW MEXICO  
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION  
HOBBS DISTRICT OFFICE

9/4/97

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

GOVERNOR

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

RE: Proposed:

- MC \_\_\_\_\_
- DHC \_\_\_\_\_
- NSL \_\_\_\_\_
- NSP \_\_\_\_\_
- SWD  \_\_\_\_\_
- WFX \_\_\_\_\_
- PMX \_\_\_\_\_

Gentlemen:

I have examined the application for the:

Crestridge Drilling & Prod Co LLC Mexico F #4-D-2-15s-37e  
 Operator Lease & Well No. Unit S-T-R

and my recommendations are as follows:

This approval is good for 60 days or Oct 7, 1997 unless  
void approval is ~~received~~ from Santa Fe by Oct 7, 1997.

Yours very truly,

Chris Williams  
Supervisor, District 1

/ed

# Downs Oil and Gas Research

1424 West Paige Dr.  
Hobbs, New Mexico 88240

(505) 392-7121

August 7, 1997

Mr. Ben Stone  
Oil Conservation Division  
2040 South Pacheco  
Santa Fe, N.M. 87505

RE: REQUEST FOR REACTIVATION OF SALT WATER DISPOSAL PERMIT SWD-330  
Mexico F Well #4 (660/N & W of Sec. 2, T15S, R37E, Lea County)

Gentlemen:

SWD-330 was originally issued to Texaco Producing, Inc. for the above-referenced well in 1987. The lease that this disposal well served was sold to Penroc Oil Corp. then to Kenlaw Oil Corp. and Sept. 1995 this lease was purchased by Crestridge Drilling & Producing Company, LLC.

The disposal well failed the MIT in January 1995 and for economic reasons the operator (Kenlaw) did not repair the well. The property was sold to Crestridge and the lease was returned to production and the disposal well was needed.

Crestridge rigged up to repair the well on October 28, 1996, and found a tubing problem -- not a casing leak. The tubing was parted and an inspection of the tubing indicated a majority of it was "junk". The 5½" casing was pressure tested and no leaks were found. (C-103 showing this work is enclosed.) Then internally fiberglass lined tubing was run and set in a packer at 11,983' on Feb. 20, 1997. A MIT was run on this well July 9, 1997, and a copy of this report is enclosed.

The well originally disposed of Wolfcamp and Devonian water but Crestridge is only disposing of Devonian water since the Wolfcamp zones have been abandoned on this lease. A copy of the Devonian water analysis is enclosed.

The area of review is basically the same as on the original application. There have been no new wells drilled. The schematic for Mobil, Denton North Wolfcamp Unit Tr. 1 #2 was marked proposed on the original application -- I have enclosed copy of subsequent P&A report which indicates the plugging went basically as proposed.

The only fresh water well in the area is approximately 1.5 miles North of the lease, and a copy of the 1987 water analysis is enclosed. Since no casing leak was found on the Mexico F #4 well, we feel a new water analysis for this well would not be pertinent.

August 7, 1997  
Mr. Ben Stone  
Mexico F #4-D Sec. 2, T15S, R37E  
SWD-330

The disposal interval in the Mexico F #4 is the same as the original application -- Devonian 12,160--12,306'. The well is currently taking approximately 250 BWPD on a vacuum.

The Hobbs office of the Oil Conservation Division indicated we have 60 days in which to get the SWD permit reinstated. The above information is submitted on behalf of Crestridge Drilling and Producing Company to assist you in reviewing their request for reinstatement of the salt water disposal permit SWD-330 for the Mexico F #4 in Unit D, Sec. 2, T15S, R37E. Should you have need for additional information, please contact Evelyn Downs at (505) 392-7121 or Rick McBride at (915) 685-7071.

Your prompt consideration of this matter will be appreciated.

Sincerely,

*Evelyn F. Downs*

Evelyn F. Downs  
Agent for Crestridge Drilling & Prod. Co. LLC

cc Crestridge Drilling & Producing Co. LLC  
P.O. Box 1114  
Midland, TX 79702

✓ Oil Conservation Division  
P.O. Box 1980  
Hobbs, N.M. 88240

Encl.

Submit 3 Copies  
to Appropriate  
District Office

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-103  
Revised 1-1-89

DISTRICT I  
P.O. Box 1980, Hobbs, NM 88240

**OIL CONSERVATION DIVISION**  
310 Old Santa Fe Trail, Room 206  
Santa Fe, New Mexico 87503

DISTRICT II  
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III  
1000 Rio Brazos Rd., Aztec, NM 87410

WELL API NO.	30-025-05249
5. Indicate Type of Lease	STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No.	B-8944

**SUNDRY NOTICES AND REPORTS ON WELLS**  
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

7. Lease Name or Unit Agreement Name	MEXICO "F"
--------------------------------------	------------

1. Type of Well:	OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER SALTWATER DISPOSAL
------------------	--

2. Name of Operator	Crestridge Drlg. & Prod. Co. LLC
---------------------	----------------------------------

8. Well No.	4
-------------	---

3. Address of Operator	P.O. BOX 1114 Midland, Texas 79702
------------------------	------------------------------------

9. Pool name or Wildcat	SWD DEVONIAN
-------------------------	--------------

4. Well Location	Unit Letter <u>D</u> : <u>660</u> Feet From The <u>North</u> Line and <u>660</u> Feet From The <u>West</u> Line
	Section <u>2</u> Township <u>15 S</u> Range <u>37 E</u> NMPM Lea County

10. Elevation (Show whether DF, RKB, RT, GR, etc.)	3,823' RKB
--	------------

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data			
<b>NOTICE OF INTENTION TO:</b>	<b>SUBSEQUENT REPORT OF:</b>		
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>		CASING TEST AND CEMENT JOB <input type="checkbox"/>	
OTHER: _____ <input type="checkbox"/>		OTHER: MECHANICAL INTEGRITY TEST <input checked="" type="checkbox"/>	

12. 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.
- 1) NOTIFIED OIL CONSERVATION DIVISION DISTRICT OFFICE ON 7/7/97 OF INTENT TO CONDUCT "MIT" ON THE MORNING OF 7/9/97.
  - 2) RIGGED UP PATE TRUCKING AND RAN MECHANICAL INTEGRITY TEST HOLDING 320 PSI ON 5-1/2" casing ANNULUS FOR 30 MINUTES. OIL CONSERVATION DIVISION REPRESENTATIVE WAS NOT PRESENT.
  - 3) SUBMITTED PRESSURE CHART OF TEST TO OCD DISTRICT OFFICE FOR APPROVAL 7/24/97.

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

SIGNATURE Richard A. McBride Jr. TITLE MANAGER DATE 7/24/97

TYPE OR PRINT NAME Richard A. McBride Jr. TELEPHONE NO. 915-685-7071

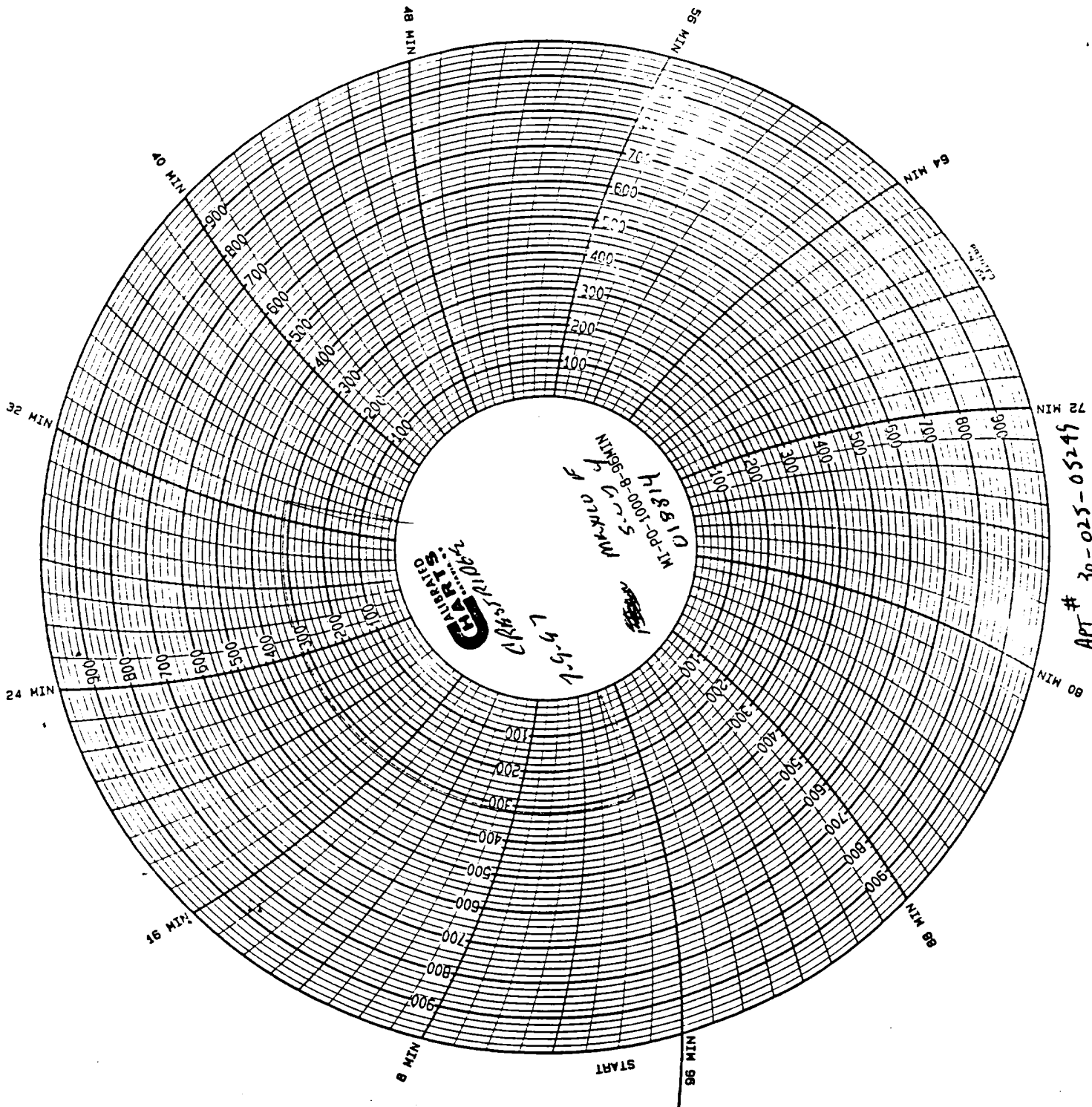
(This space for State Use)

ORIGINAL SIGNED BY CHRIS WILLIAMS  
DISTRICT I SUPERVISOR

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

81 26 1037



API # 30-025-05249

DISTRICT I  
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II  
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III  
1000 Rio Brazos Rd., Aztec, NM 87410

**OIL CONSERVATION DIVISION**  
310 Old Santa Fe Trail, Room 206  
Santa Fe, New Mexico 87503

WELL API NO.  
30-025-05249

5. Indicate Type of Lease  
STATE  FEE

6. State Oil & Gas Lease No.  
B-8944

7. Lease Name or Unit Agreement Name  
MEXICO "F"

8. Well No.  
4

9. Pool name or Wildcat  
SWD DEVONIAN

**SUNDRY NOTICES AND REPORTS ON WELLS**  
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A  
DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT"  
(FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well:  
OIL WELL  GAS WELL  OTHER SALTWATER DISPOSAL

2. Name of Operator  
Crestridge Drlg. & Prod. Co. LLC

3. Address of Operator  
P.O. BOX 1114 Midland, Texas 79702

4. Well Location  
Unit Letter D : 660 Feet From The North Line and 660 Feet From The West Line

Section 2 Township 15 S Range 37 E NMPM Lea County

10. Elevation (Show whether DF, RKB, RT, GR, etc.)  
3,823' RKB

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data			
NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>		CASING TEST AND CEMENT JOB <input type="checkbox"/>	
OTHER: _____ <input type="checkbox"/>		OTHER: <u>REPAIRING TUBING LEAK (no csg leak)</u> <input checked="" type="checkbox"/>	

12. 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.

- 1) Rigged up workover rig on 10/28/96. Picked up on tbg. Pulled out of hole w/346 jts & 1 parted jt 2-3/8" ipc tbg. (approx 10,365', pkr @ 11,991') Fished remaining 1,265' of tbg & 5-1/2" od loc-set packer from casing in 7 days ending 11/3/96. Tbg inspection rendered majority as "junk".
- 2) Ran in hole w/5-1/2" od ret bridge plug & pkr on 2-7/8" od tbg workstring. Set rbp @ 11,965'. Set packer @ 11,950'. Pressure tested rbp to 1,000 psi. Okay. Pressure tested 5-1/2" csg annulus to 500 psi for 20 min. Okay. Poh & laid down workstring on 11/6/96. Waited on new tbg to be fiberglass lined.
- 3) Picked up & rih w/5-1/2" od (ipc) loc-set pkr & on-off tool on 2-3/8" od internally fiberglass lined tubing. Set pkr @ 11,983' on 2/20/97. Rigged up wireline truck. Ran & set 1.5 "F" plug in on-off tool. Pulled off pkr & circ annulus w/pkr fluid. Latched back onto pkr. Pressure tested annulus to 500 psi for 15 min. Okay. Attempt to fish "F" plug from pkr unsuccessful w/pulling tool.
- 4) Wait on fishing procedure. Rigged up wireline truck. Rih w/grapple in overshot to catch top of plug. Retrieved plug on 6/19/97. Well ready for injection subject to mechanical integrity test.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.  
SIGNATURE Richard A. McBride Jr. TITLE MANAGER DATE 6/30/97  
TYPE OR PRINT NAME Richard A. McBride Jr. TELEPHONE NO. 915-685-7071

(This space for State Use) Orig. Signed by Paul Kautz Geologist JUL 2 1997

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

Submit 3 Copies  
to Appropriate  
District Office

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-103  
Revised 1-1-89

DISTRICT I  
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II  
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III  
1000 Rio Brazos Rd., Aztec, NM 87410

**OIL CONSERVATION DIVISION**  
310 Old Santa Fe Trail, Room 206  
Santa Fe, New Mexico 87503

WELL API NO.	30-025-05249
5. Indicate Type of Lease	STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No.	B-8944

**SUNDRY NOTICES AND REPORTS ON WELLS**  
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

7. Lease Name or Unit Agreement Name	MEXICO "F"
8. Well No.	4
9. Pool name or Wildcat	SWD DEVONIAN

1. Type of Well:  
 OIL WELL  GAS WELL  OTHER SALTWATER DISPOSAL

2. Name of Operator  
Crestridge Drlg. & Prod. Co. LLC

3. Address of Operator  
P.O. BOX 1114 Midland, Texas 79702

4. Well Location

Unit Letter D : 660 Feet From The North Line and 660 Feet From The West Line

Section 2 Township 15 S Range 37 E NMPM Lea County

10. Elevation (Show whether DF, RKB, RT, GR, etc.)	3,823' RKB
--	------------

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>
OTHER: MECHANICAL INTEGRITY TEST <input checked="" type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
	CASING TEST AND CEMENT JOB <input type="checkbox"/>
	OTHER: _____ <input type="checkbox"/>

12. 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.

1) Conduct mechanical integrity test on swd well subsequent to tubing repair. Requested the week of 6/30/97.

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

SIGNATURE Richard A. McBride Jr. TITLE MANAGER DATE 6/30/97

TYPE OR PRINT NAME Richard A. McBride Jr. TELEPHONE NO. 915-685-7071

(This space for State Use)

APPROVED BY Paul Kautz Geologist TITLE \_\_\_\_\_ DATE JUL 2 1997

CONDITIONS OF APPROVAL, IF ANY:

Submit 3 Copies  
to Appropriate  
District Office

State of New Mexico  
Energy Minerals and Natural Resources Department

Form C-103  
Revised 1-1-89

DISTRICT I  
P.O. Box 1980, Hobbs, NM 88240

**OIL CONSERVATION DIVISION**  
310 Old Santa Fe Trail, Room 206  
Santa Fe, New Mexico 87503

DISTRICT II  
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III  
1000 Rio Brazos Rd., Aztec, NM 87410

WELL API NO.	30-025-05249
5. Indicate Type of Lease	STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No.	B 8944

**SUNDRY NOTICES AND REPORTS ON WELLS**  
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

7. Lease Name or Unit Agreement Name	Mexico "F"
--------------------------------------	------------

1. Type of Well: OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER Saltwater disposal	
2. Name of Operator Crestridge Drlg. & Prod. Co. LLC	8. Well No. 4
3. Address of Operator P.O. Box 1114 Midland, Texas 79702	9. Pool name or Wildcat SWD DEVONIAN
4. Well Location Unit Letter D : 660 Feet From The North Line and 660 Feet From The West Line Section 2 Township 15 S Range 37 E NMPM Lea County	

10. Elevation (Show whether DF, RKB, RT, GR, etc.) 3823' rkb
---

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

<b>NOTICE OF INTENTION TO:</b>	<b>SUBSEQUENT REPORT OF:</b>
PERFORM REMEDIAL WORK <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>
OTHER: Repair casing leak <input checked="" type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
	CASING TEST AND CEMENT JOB <input type="checkbox"/>
	OTHER: <input type="checkbox"/>

12. 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.

- 1) Notify Oil Conservation Division 24 hours prior to commencing operations. (Approx 10/21/96)
- 2) Release 5 1/2" Loc-set packer @ 11,991'. Pull out of hole and lay down 2-3/8" od plastic coated tubing and packer.
- 3) Run in hole with retrievable bridge plug and packer on 2-7/8" od work string to isolate 5 1/2" casing leak.
- 4) Establish injection rate. Cement squeeze casing to seal leak below cement retainer.
- 5) Wait on cement. Drill out retainer and cement. Pressure test casing to 300 psi for 30 minutes.
- 6) Lay down workstring. Rerun 2-3/8" injection string and packer.
- 7) Notify Oil Conservation Division and retest tubing-casing annulus for mechanical integrity.
- 8) Commence injection of produced water.

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

SIGNATURE Richard A. McBride Jr. TITLE Manager DATE 9-26-96

TYPE OR PRINT NAME Richard A. McBride Jr. TELEPHONE NO. 915-685-7071

(This space for State Use)

APPROVED BY APPROVED BY JERRY SEXTON TITLE \_\_\_\_\_ DATE SEP 30 1996

CONDITIONS OF APPROVAL, IF ANY:

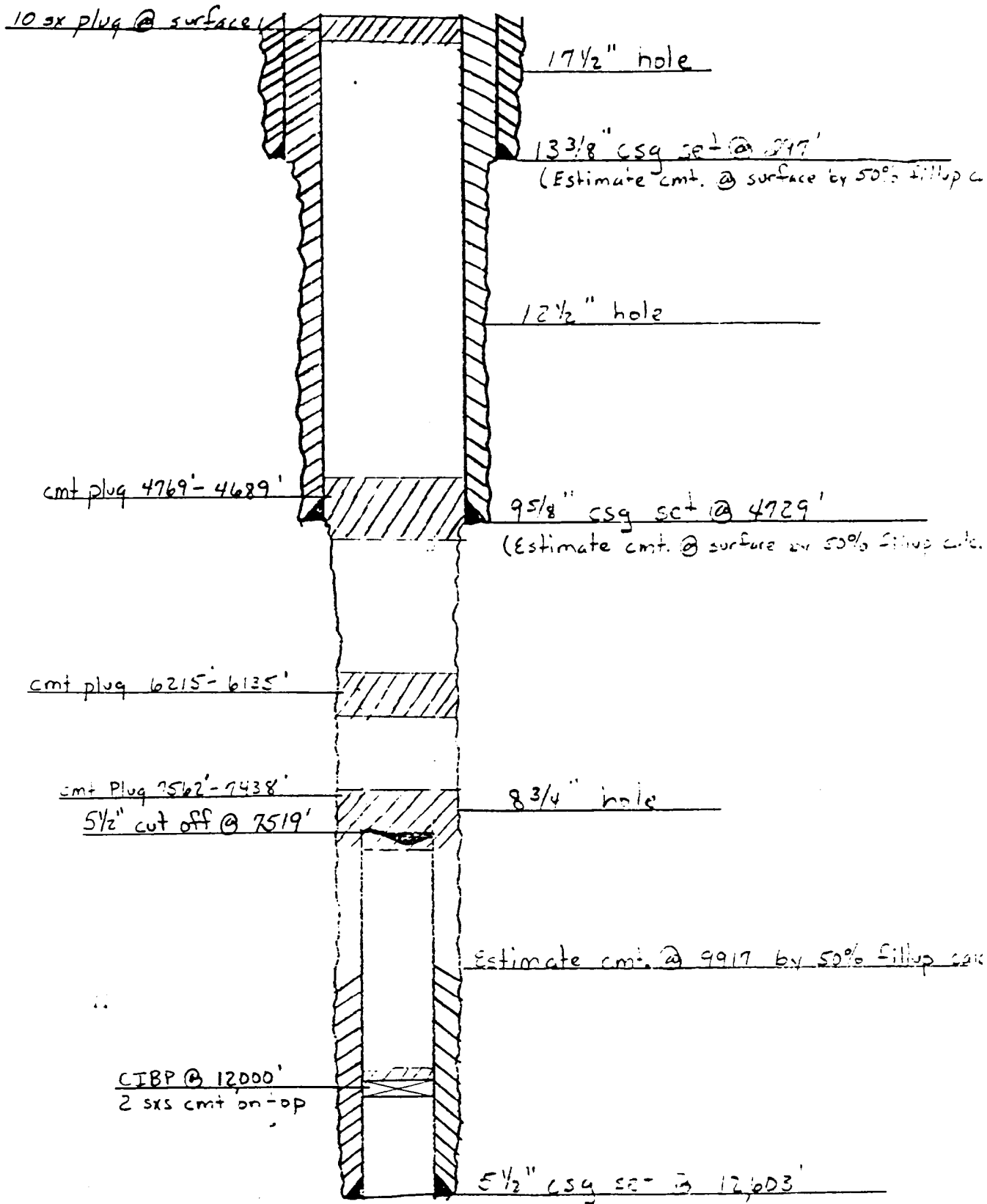


WELLS WITHIN 1/2 MILE RADIUS OF TPI's MEXICO "P" WELL NO. 4  
THAT PENETRATE THE PROPOSED INJECTION ZONE

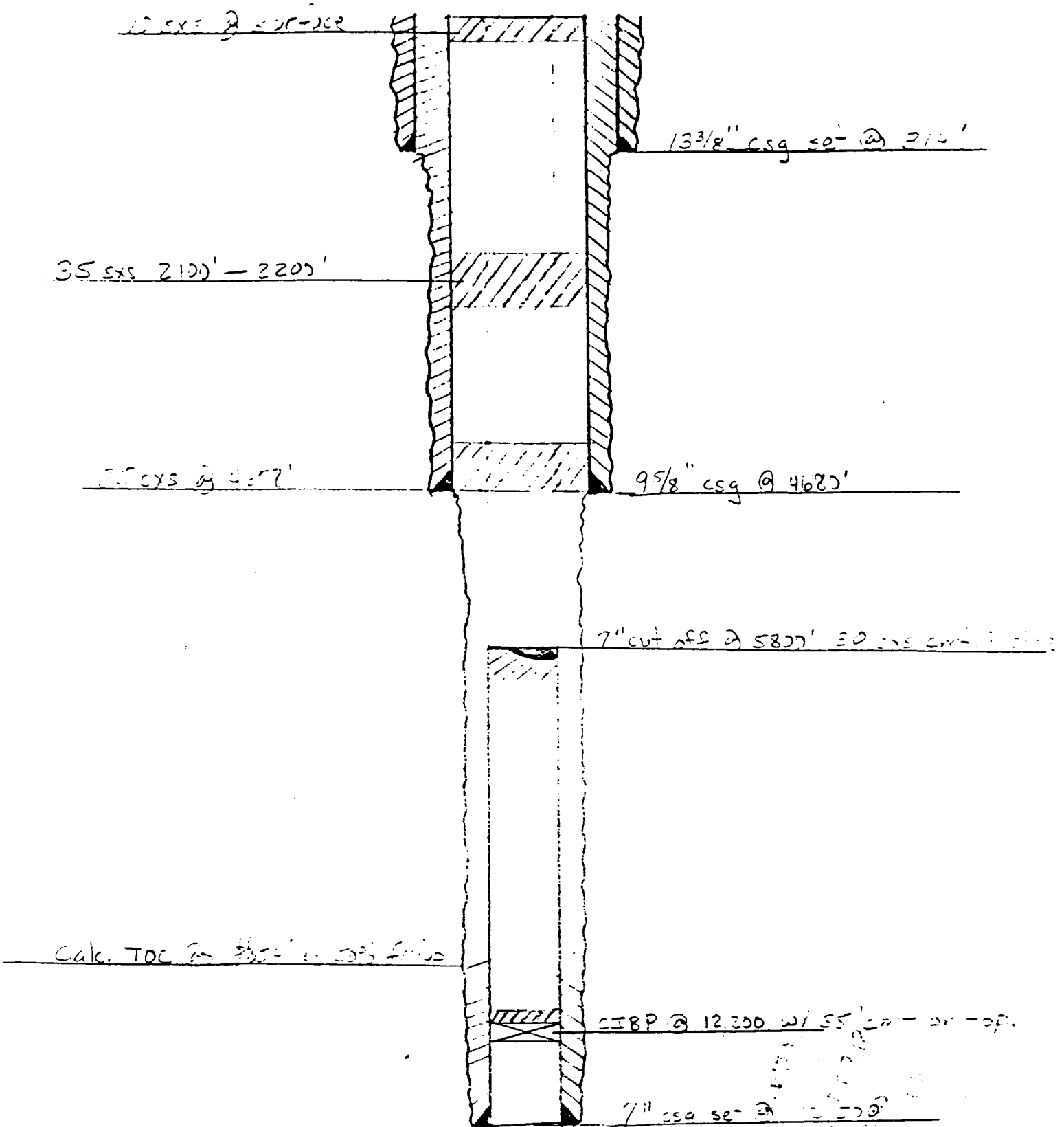
Operator Well Name & No.	Formation	Total Depth	Date Drilled	Current Status	Hole Size	Casing Size	Depth	Cement (ax)	TQC Determined By
Arco Jones Federal No. 1 660' FSL & 660' FWL Sec. 15, T-14-S, R-37-E	Devonian	12,700'	7/23/51	P & A	18"	13-3/8"	314'	475	Surface Circulated
					12-1/4"	9-5/8"	4,677'	3000	Surface Circulated
					8-5/8"	7"	12,697'	855	9,054' Calc. 50% fillup
B. C. Dickinson A-34 No. 2 1650' FSL & 330' FEL Sec. 34, T-14-S, R-37-E	Devonian	12,603'	3/01/53	P & A	17-1/2"	13-3/8"	297'	350	Surface Calc. 50% fillup
					12-1/2"	9-5/8"	4,729'	3000	Surface Calc. 50% fillup
					8-3/4"	5-1/2"	12,603'	1150	9,917' Calc. 50% fillup
Mobil T. D. Pope Well No. 1 1980' FEL & 660' FSL Sec. 35, T-14-S, R-37-E	Devonian	12,702'	10/30/51	Producing	17-1/2"	13-3/8"	411'	500	Surface Circulated
					11"	8-5/8"	4,746'	3699	Surface Circulated
					7-7/8"	5-1/2"	12,487'	1793	930' TS
Denton M. Wolfcamp Ut. 330' FSL & 330' FEL Sec. 34, T-14-S, R-37-E	Wolfcamp	12,536'	6/24/52	P & A	17-1/2"	13-3/8"	324'	350	Surface Circulated
					12-1/4"	9-5/8"	4,754'	3000	Surface Circulated
					8-3/4"	7"	12,536'	750	11,824' Calc.
Honda Stacie T Well No. 2 1980' FNL & 1980' FNL Sec. 2, T-15-S, R-37-E	Devonian	12,713'	3/17/51	Producing	17-1/2"	13-3/8"	320'	375	Surface Circulated
					12-1/4"	9-5/8"	4,689'	2500	33' Calc. 50% fillup
					8-3/4"	7"	10,580'	925	6,950' Calc. 50% fillup
Polaris State A Well No. 2 1980' FSL & 660' FNL Sec. 2, T-15-S, R-37-E	Devonian	12,500'	8/22/51	Producing	(Liner)	5"	10215'-12713'	200	10,215' Calc. 50% fillup
					17-1/4"	13-3/8"	356'	300	Surface Circulated
					7-7/8"	8-5/8"	4,680'	3500	Surface Circulated
Argo Well No. 2 990' FNL & 330' FEL Sec. 3, T-15-S, R-37-E	Devonian	12,691'	2/16/52	Producing	17-1/4"	13-3/8"	326'	325	Surface Circulated
					11"	8-5/8"	4,742'	3500	Surface Circulated
					7-7/8"	5-1/2"	12,082'	1000	8,677' Calc. 50% fillup
Argo Well No. 1 660' FNL & 660' FEL Sec. 3, T-15-S, R-37-E	Devonian	12,690'	11/13/51	Producing	17-1/4"	13-3/8"	374'	325	Surface Circulated
					11"	8-5/8"	4,655'	3500	Surface Circulated
					7-7/8"	5-1/2"	12,500'	1150	8,584' Calc. 50% fillup
Texaco Producing Inc. Merico "P" Well No. 1 660' FNL & 1980' FNL Sec. 2, T-15-S, R-37-E	Devonian	12,887'	5/19/51	Producing	18"	13-3/8"	355'	350	Surface Circulated
					12-1/4"	9-5/8"	4,820'	3600	Surface Circulated
					7-7/8"	5-1/2"	12,887'	1500	4,695' TS
Merico "P" Well No. 3 1980' FNL & 660' FNL Sec. 2, T-15-S, R-37-E	Devonian	12,732'	11/10/51	Producing	18"	13-3/8"	345'	225	Surface Circulated
					12-1/4"	8-5/8"	4,800'	3500	Surface Calc. 50% fillup
					7-7/8"	5-1/2"	12,732'	1420	3,298' TS
Merico "P" Well No. 5 660' FNL & 1980' FEL Sec. 2, T-15-S, R-37-E	Devonian	12,600'	5/05/52	Producing	18"	13"	331'	350	Surface Circulated
					12-1/4"	9-5/8"	4,792'	3250	Surface Circulated
					7-7/8"	5-1/2"	12,600'	1705	6,794' Calc. 50% fillup

B. C. Dickinson A-34 No. 2

1650' FSL + 330' FEL Sec. 34, 1-14-S, R-37-E



Jones Federal Well No. 1  
 660' FSL + 660' FWL sec 35, T-14-S, R-37-E



UNITED STATES CONS. COMMISSION IN TRIPLE  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
HOBBS, NEW MEXICO 88240

Approved.  
Budget Bureau No. 1004-0135  
Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.  
IC-065254

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
Denton North Wolfcamp  
Unit Tract No. 1

9. WELL NO.  
2

10. FIELD AND POOL, OR WILDCAT  
Denton Wolfcamp

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
Sec. 34, T-14S, T-37E

12. COUNTY OR PARISH  
Lea

13. STATE  
NM

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL  GAS WELL  OTHER

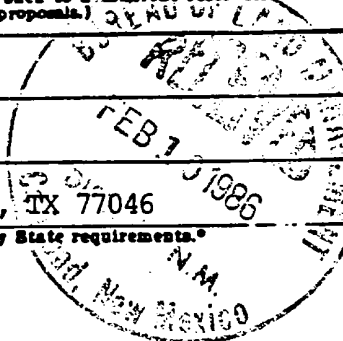
2. NAME OF OPERATOR  
Mobil Producing TX & NM Inc.

3. ADDRESS OF OPERATOR  
9 Greenway Plaza - Suite 2700 - Houston, TX 77046

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)  
At surface  
330 FEL & 330 FSL

14. PERMIT NO.  
DF-3822

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



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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input checked="" type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANE <input type="checkbox"/>	(Other) <input type="checkbox"/>	
(Other) <input type="checkbox"/>		(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

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

1-27-86 MIRU Frontier UT #302, RIH w/7" CIBP & set @ 9300, dump 35x "C" Neat on top of CIBP.

1-28-86 Circ 9.5 MLF to surf (365 bbls), perf Abo @ 8173-8174 w/4 JSPF (8 holes), RIH w/7" cmt ret.

1-29-86 Set ret @ 8125, sqz w/35x "C" Neat, spot 16x on top of ret.

1-30-86 Perf Glorietta @ 6223-6225 w/2 JSPF (8 holes), set cmt ret @ 6175, sqz perfs 6223-25 w/35x "C" Neat, cap w/16x on top of ret, perf 4793-4795 w/2 JSPF (8 holes), set cmt ret @ 4745, sqz 4793-95 w/35x "C" Neat, cap cmt ret w/16x, perf salt @ 3138-3140 w/2 JSPF (8 holes).

1-31-86 Set cmt ret @ 3090, pump 500x "C" Neat & circ 15x to pit, dump 16x on cmt ret, spot 16x "C" Neat plug @ 2157-2250, spot 30x "C" Neat plug @ 188-362, spot 15x "C" Neat plug @ 0-50, instl dry hole marker, clear & clean location, RDMO Frontier Unit. Well P&A.

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

SIGNED Nancy Lewis TITLE Authorized Agent DATE 2-7-86

(This space for Federal or State office use)  
Orig. Sgd: Charles S. ...

APPROVED BY Area Manager TITLE \_\_\_\_\_ DATE 6-23-86

CONDITIONS OF APPROVAL, IF ANY:

DATE 7-15-85

WELL N° 1-2

LEASE DNWU

FIELD DNW

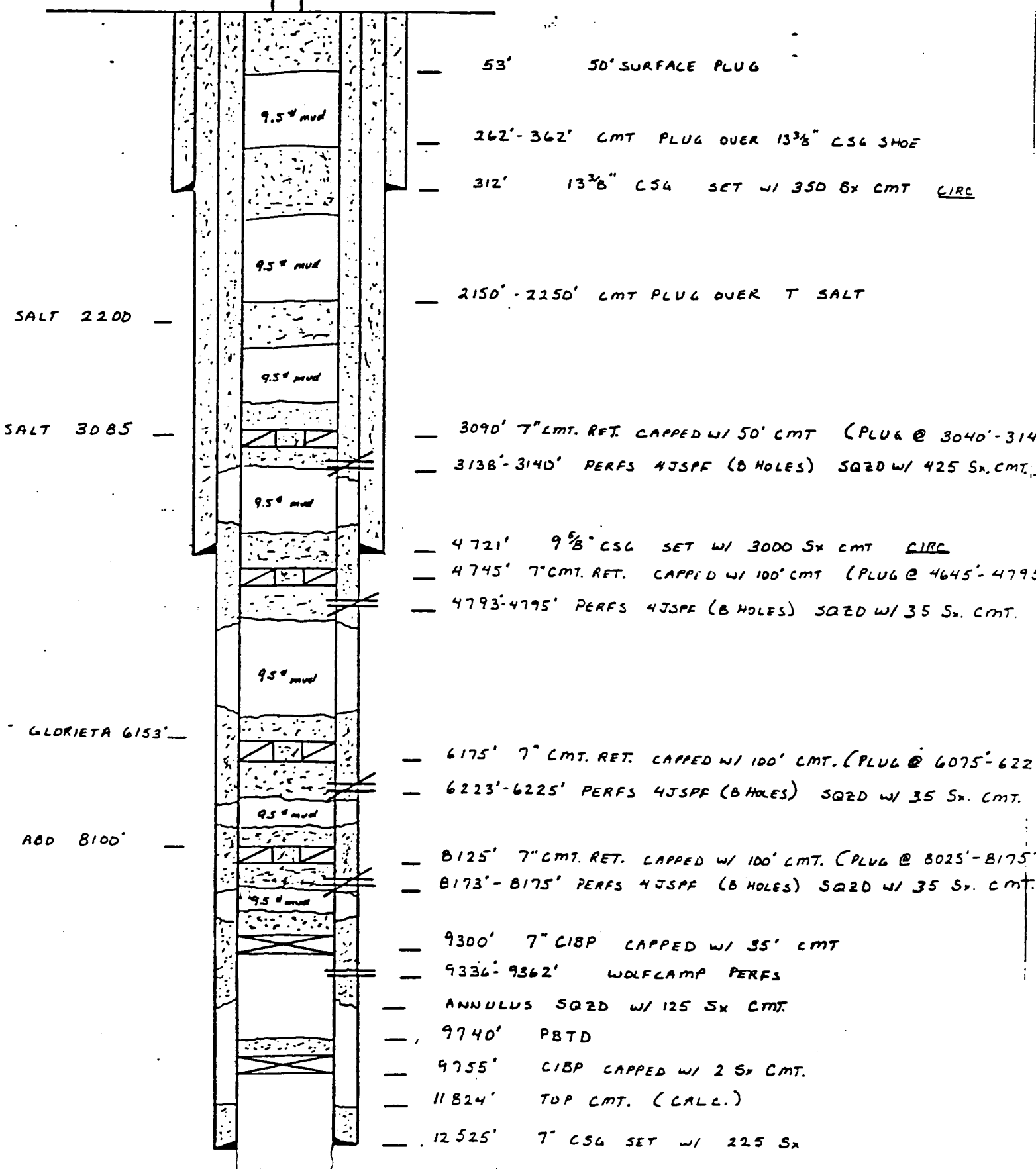
LOCATION 34-P 14S 37E  
LEA CO. NEW MEXICO

SIGNED M.E. VASICEK

G.L. \_\_\_\_\_  
D.F. 3822  
K.B. \_\_\_\_\_  
ZERO

PROPOSED

P  
E  
A



53' 50' SURFACE PLUG

262'-362' CMT PLUG OVER 13<sup>3</sup>/<sub>8</sub>" CSG SHOPE

312' 13<sup>3</sup>/<sub>8</sub>" CSG SET W/ 350 SX CMT CIRC

2150' - 2250' CMT PLUG OVER T SALT

3090' 7" CMT. RET. CAPPED W/ 50' CMT (PLUG @ 3040'-3140')

3138'-3140' PERFS 4 JS PF (B HOLES) SQZD W/ 425 SX CMT.

4721' 9<sup>5</sup>/<sub>8</sub>" CSG SET W/ 3000 SX CMT CIRC

4745' 7" CMT. RET. CAPPED W/ 100' CMT (PLUG @ 4645'-4795')

4793'-4795' PERFS 4 JS PF (B HOLES) SQZD W/ 35 SX CMT.

6175' 7" CMT. RET. CAPPED W/ 100' CMT. (PLUG @ 6075'-6225')

6223'-6225' PERFS 4 JS PF (B HOLES) SQZD W/ 35 SX CMT.

8125' 7" CMT. RET. CAPPED W/ 100' CMT. (PLUG @ 8025'-8175')

8173'-8175' PERFS 4 JS PF (B HOLES) SQZD W/ 35 SX CMT.

9300' 7" CIBP CAPPED W/ 35' CMT

9336'-9362' WOLF LAMP PERFS

ANNULUS SQZD W/ 125 SX CMT.

9740' PBTD

9755' CIBP CAPPED W/ 2 SX CMT.

11824' TOP CMT. (CALL.)

12525' 7" CSG SET W/ 225 SX

SALT 2200

SALT 3085

GLORIETA 6153'

ABD 8100'

INJECTION WELL DATA SHEET

OPERATOR		LEASE		
Texaco Producing Inc.		Mexico "F"		
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE
4	660' FNL & 660' FWL	2	15-S	37-E

Schematic

See Attachment

Tabular Data

Surface Casing

Size 13-3/8 " Cemented with 300 sx.  
 TOC Surface feet determined by Circulated  
 Hole size 17-1/2"

Intermediate Casing

Size 9-5/8 " Cemented with 1660 sx.  
 TOC 144 feet determined by Temp. Survey  
 Hole size 12-1/4"

Long string

Size 5-1/2 " Cemented with 1925 sx.  
 TOC 5065 feet determined by Temp. Survey  
 Hole size 7-7/8"

Total depth 12,550' (PBSD - 12,314')

Injection interval

12,160 feet to 12,306 feet  
 (perforated or ~~open hole~~, indicate which)

TREATING CHEMICALS  
NL INDUSTRIES, INC.

SCALING TENDENCIES OF WATERS

---

COMPANY: TEXACO PRODUCING  
SAMPLE POINT: WELL #3 (DEVONIAN)  
LOCATION: MEXICO F  
DATE: 7/23/87

WATER ANALYSIS (MG/L):

SODIUM	26555.8
CALCIUM	2760.0
MAGNESIUM	268.4
CHLORIDE	45500.0
SULFATE	1075.0
BICARBONATE	573.4
IRON	0.4
BARIIUM	0.0
STRONTIUM	0.0

PH: 7.2  
IONIC STRENGTH = 1.4062

INDEX VALUES GREATER THAN ZERO INDICATE SCALING CONDITIONS  
INDEX VALUES OF ZERO OR LESS INDICATE A STABLE WATER

TEMP.	CALCITE INDEX	GYPSUM INDEX	ANHYDRITE INDEX	BARITE INDEX	STRONTIUM INDEX
60	0.52	-0.45	-0.74	-41.96	-1.00
80	0.61	-0.46	-0.64	-42.07	-1.00
100	0.75	-0.46	-0.55	-42.19	-1.00
120	0.92	-0.46	-0.47	-42.30	-1.00
140	1.14	-0.46	-0.38	-42.42	-1.00
160	1.40	-0.45	-0.28	-42.53	-1.00
180	1.70	-0.44	-0.18	-42.63	-1.00
200	2.04	-0.43	-0.07	-42.74	-1.00
220	2.44	-0.41	0.06	-42.82	-1.00
240	2.87	-0.39	0.19	-42.88	-1.00
260	3.36	-0.37	0.33	-42.88	-1.00

**WATER ANALYSIS REPORT**

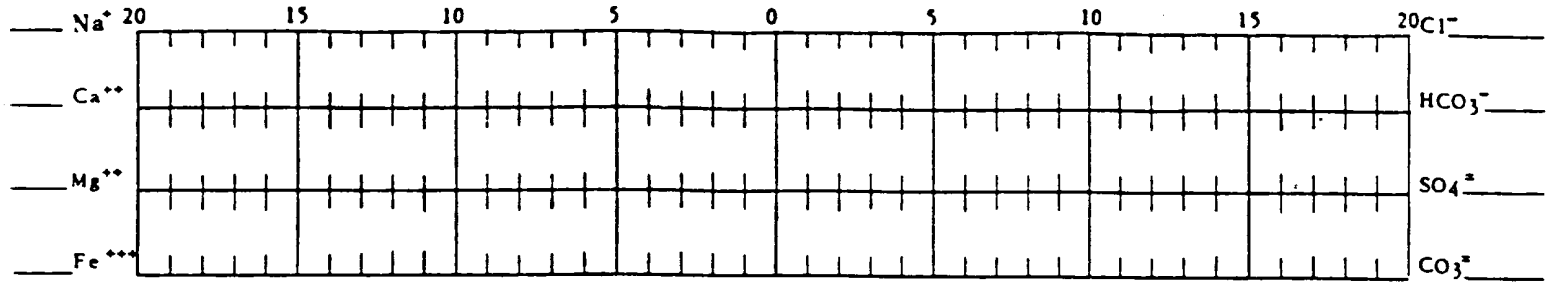


NL Treating Chemicals/NL Industries, Inc.  
P. O. Box 4305 Houston, Texas 77210

COMPANY <b>Texaco Producing</b>							SHEET NUMBER	
FIELD							DATE <b>7/23/87</b>	
LEASE OR UNIT <b>MEXICO F</b>					WELL(S) NAME OR NO. <b># 3</b>		COUNTY OR PARISH <b>LEA</b>	
STATE <b>N.M.</b>							WATER SOURCE (FORMATION)	
DEPTH, FT.	BHT, F	SAMPLE SOURCE <b>well head</b>	TEMP, F	WATER, BBL/DAY	OIL, BBL/DAY	GAS, MMCF/DAY		
DATE SAMPLED <b>7/23/87</b>		TYPE OF WATER						
		<input checked="" type="checkbox"/> PRODUCED <input type="checkbox"/> SUPPLY <input type="checkbox"/> WATERFLOOD <input type="checkbox"/> SALT WATER DISPOSAL						

**WATER ANALYSIS PATTERN**

(NUMBER BESIDE ION SYMBOL INDICATES mg/l\* SCALE UNIT)



**DISSOLVED SOLIDS**

ATIONS  
Total Hardness  
Calcium, Ca<sup>++</sup>  
Magnesium, Mg<sup>++</sup>  
Iron (Total) Fe<sup>+++</sup>  
Barium, Ba<sup>++</sup>  
Sodium, Na<sup>+</sup>(calc.)

	me/l*	mg/l*
	<u>760</u>	<u>2760</u>
	<u>138</u>	<u>268.4</u>
	<u>22</u>	<u>0.4</u>
	<u>1157.6</u>	<u>26555.8</u>

**DISSOLVED GASES**

Hydrogen Sulfide, H<sub>2</sub>S \_\_\_\_\_ mg/l\*  
Carbon Dioxide, CO<sub>2</sub> \_\_\_\_\_ mg/l\*  
Oxygen, O<sub>2</sub> \_\_\_\_\_ mg/l\*

**PHYSICAL PROPERTIES**

pH 7.2  
Eh (Redox Potential) \_\_\_\_\_ MV  
Specific Gravity \_\_\_\_\_  
Turbidity, JTU Units \_\_\_\_\_  
Total Dissolved Solids (calc.) 76750 mg/l\*  
Stability Index @ \_\_\_\_\_ F \_\_\_\_\_  
@ \_\_\_\_\_ F \_\_\_\_\_  
CaSO<sub>4</sub> Solubility @ \_\_\_\_\_ F \_\_\_\_\_ mg/l\*  
@ \_\_\_\_\_ F \_\_\_\_\_ mg/l\*  
Max. CaSO<sub>4</sub> Possible (calc.) \_\_\_\_\_ mg/l\*  
Max. BaSO<sub>4</sub> Possible (calc.) \_\_\_\_\_ mg/l\*  
Residual Hydrocarbons \_\_\_\_\_ ppm(Vol/Vol)

ANIONS  
Chloride, Cl<sup>-</sup>  
Sulfate, SO<sub>4</sub><sup>=</sup>  
Carbonate, CO<sub>3</sub><sup>=</sup>  
Bicarbonate, HCO<sub>3</sub><sup>-</sup>  
Hydroxyl, OH<sup>-</sup>  
Sulfide, S<sup>=</sup>

	me/l*	mg/l*
	<u>1281.7</u>	<u>45500</u>
	<u>22.4</u>	<u>1075</u>
	<u>9.4</u>	<u>573.4</u>
	<u>1.1</u>	<u>17.9</u>

**SUSPENDED SOLIDS (QUALITATIVE)**

Iron Sulfide  Iron Oxide  Calcium Carbonate  Acid Insoluble

*R - 0.13 @ 68°*

**REMARKS AND RECOMMENDATIONS:**

*Complete H<sub>2</sub>O + Fe  
Background Info.*

\*NOTE: me/l and mg/l are commonly used interchangeably for epm and ppm respectively. Where epm and ppm are used, corrections should be made for specific gravity.

ENGINEER <b>Mike Brown</b>	DIST. NO. <b>821</b>	ADDRESS <b>PO Box 1697 Hobbs, N.M.</b>	OFFICE PHONE <b>392-1518</b>	HOME PHONE
-------------------------------	-------------------------	---	---------------------------------	------------



INDUSTRIES, INC.

SCALING TENDENCIES OF WATERS

COMPANY: TEXACO PRODUCING  
 SAMPLE POINT: WINDMILL  
 LOCATION: MEXICO F  
 DATE: 7/23/87

WATER ANALYSIS (MG/L):

SODIUM	361.1
CALCIUM	68.0
MAGNESIUM	75.6
CHLORIDE	700.0
SULFATE	25.0
BICARBONATE	311.1
IRON	0.1
BARIUM	0.0
STRONTIUM	0.0

PH: 7.7  
 IONIC STRENGTH = 0.0304

INDEX VALUES GREATER THAN ZERO INDICATE SCALING CONDITIONS  
 INDEX VALUES OF ZERO OR LESS INDICATE A STABLE WATER

TEMP.	CALCITE INDEX	GYPSUM INDEX	ANHYDRITE INDEX	BARITE INDEX	STRONTIUM INDEX
60	0.18	-2.47	-2.72	-40.69	-1.00
80	0.30	-2.51	-2.65	-40.83	-1.00
100	0.41	-2.53	-2.58	-40.95	-1.00
120	0.53	-2.53	-2.49	-41.04	-1.00
140	0.65	-2.52	-2.40	-41.11	-1.00
160	0.78	-2.50	-2.29	-41.16	-1.00
180	0.92	-2.47	-2.16	-41.19	-1.00
200	1.06	-2.43	-2.03	-41.20	-1.00
220	1.22	-2.39	-1.88	-41.20	-1.00
240	1.38	-2.34	-1.73	-41.19	-1.00
260	1.55	-2.30	-1.56	-41.17	-1.00