Form 3160-5
(July 1989)
(Formerly 9-331)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

CONTACT RECEIV. OFFICE FOR NUMBER OF COPIES REQUIRED (Other instructions on reverse side)

BLM Roswell District
Modified Form No.
NM060-3160-4

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.)

5. LEASE DESIGNATION AND SERIAL NO.: NM-32410

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

1. OIL WELL [X] GAS WELL [ ] OTHER

8. FARM OR LEASE NAME: Shinnery Federal

2. NAME OF OPERATOR: Meridian Oil Inc.

3. ADDRESS OF OPERATOR: P.O. Box 51810, Midland, TX 79710-1810

3a. AREA CODE & PHONE NO.: 915-686-5600

9. WELL NO.: 1

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 1980' FSL & 1980' FWL

K

10. FIELD AND POOL, OR WILDCAT: South Corbin (Wolfcamp)

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 13, T18S, R32E

14. PERMIT NO.: 30-025-30247

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 3831' GR.

12. COUNTY OR PARISH: Lea

13. STATE: NM

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

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	[ ]	PULL OR ALTER CASING	[ ]	WATER SHUT-OFF	[ ]	REPAIRING WELL	[ ]
FRACTURE TREAT	[ ]	MULTIPLE COMPLETE	[ ]	FRACTURE TREATMENT	[ ]	ALTERING CASING	[ ]
SHOOT OR ACIDIZE	[ ]	ABANDON*	[ ]	SHOOTING OR ACIDIZING	[ ]	ABANDONMENT*	[ ]
REPAIR WELL	[ ]	CHANGE PLANS	[ ]				
(Other) Re-Enter Wolfcamp & Recomplete			[X]	(Other)			

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

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

We propose to abandon the Queen formation and re-enter the Wolfcamp. The proposed procedure is attached.

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

SIGNED Robert L. Bradshaw TITLE Sr. Staff Environmental Rep. DATE 915-686-5678

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

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

MEXICO OIL CONSERVATION COMMISSION

WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
Supersedes C-128
Effective 14-65

All distances must be from the outer boundaries of the Section

Operator	Lease	Well No.
MERIDIAN OIL COMPANY	SHINNERY FEDERAL	

Unit Letter	Section	Township	Range	County
K	13	18-SOUTH	32-EAST	LEA

Actual Footage Location of Well:
1980 feet from the SOUTH line and 1980 feet from the WEST line

Ground Level Elev.	Producing Formation	Pool	Dedicated Acreage:
3831'	Wolfcamp	South Corbin	80 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.

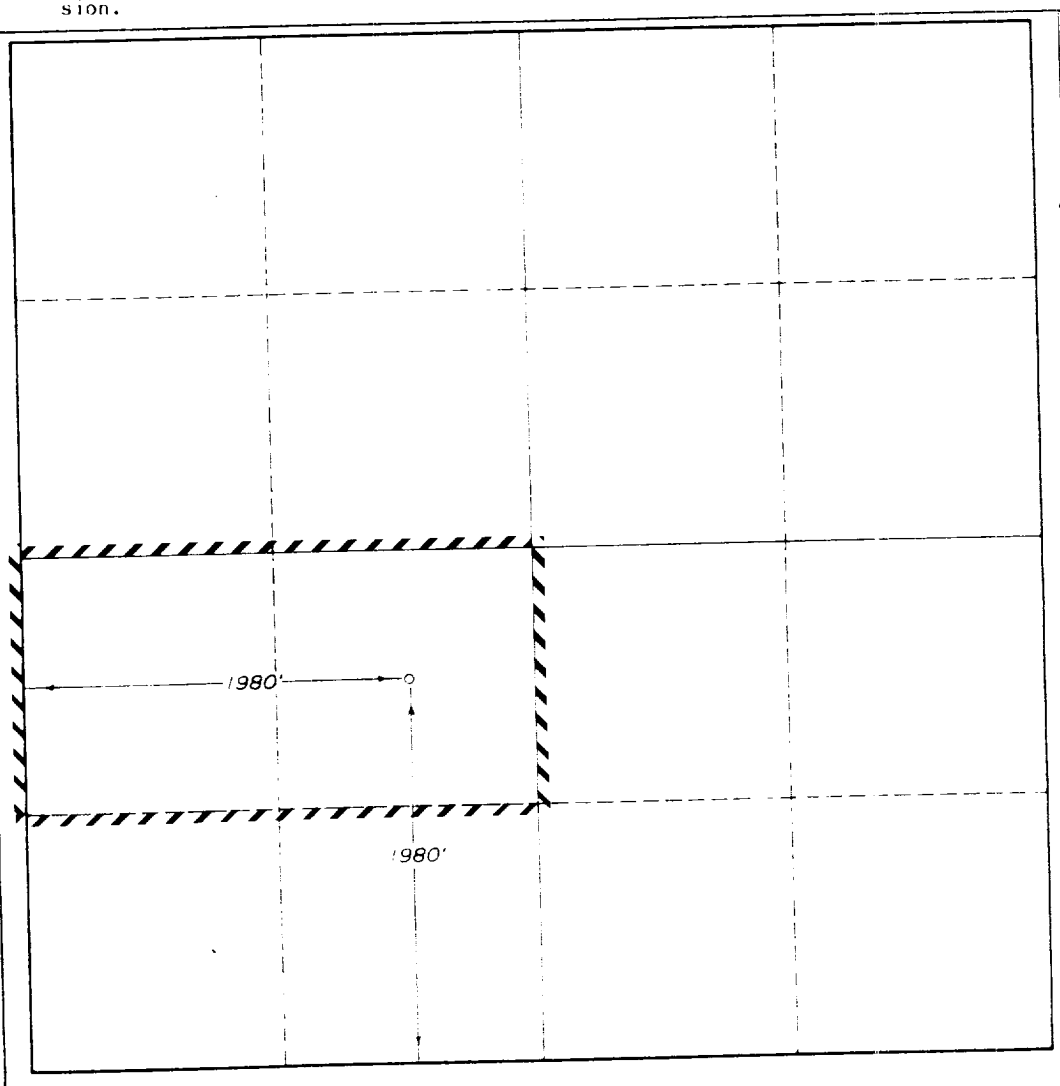
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).

3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling. etc?

☐ Yes ☐ No If answer is "yes," type of consolidation _____

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION

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

Robert L. Bradshaw

Name: Robert L. Bradshaw
Position: Sr. Staff Environmental Rep.
Company: Meridian Oil Inc.
Date: 5/10/91

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed: January 8, 1988

Registered Professional Engineer and/or Land Surveyor:

GARY D. EIDSON
NEW MEXICO
6689
REGISTERED LAND SURVEYOR
ROSWELL

Certificate No. 6689

Shinnery Federal #1
South Corbin (Wolfcamp) Field
Lea County, New Mexico

Wolfcamp Re-entry Procedure

Project Engineer: David Cook

Office: (915) 686-5663
Residence: (915) 687-0908

1. Order and deliver 7500' of 2 7/8", N-80, 6.5#, EUE, inspected tubing to location.

2. MIRU pulling unit. MIRU kill truck. Circulate freshwater down tubing-casing annulus allowing for returns on tubing.

3. ND pumping tee. TOOH with steel sucker rods and pump. ND wellhead and NU BOP. Release TAC and TOOH with 2 7/8", N-80 tubing, TAC, four joints of 2 7/8" tubing, perforated sub and mud anchor.

4. TIH with casing scraper suitable for 5 1/2", 17# casing. RIH to 4100'. TOOH. TIH with a CIBP suitable for 5 1/2", 17# casing and ±4060' of 2 7/8" tubing. Set CIBP at 4060'. TOOH.

5. TIH with a cement retainer and ±3900' of 2 7/8" tubing. Set retainer at ±3950'. Test tubing to 6200 psi. Test tubing-casing annulus and cement retainer to 1000 psi.

6. MIRU cement company. NU surface lines and test to 3000 psi. Establish injection into Queen perforations using treated fresh water. Cement squeeze Queen perforations with 250 sacks of cement (4006'-4024'; 37 holes) using the attached recommended cement slurry. If possible, displace cement to retainer. Pull out of retainer and reverse out any excess cement. TOOH. RDMO cement company. WOC overnight.

7. MIRU reverse unit. TIH with a 4 3/4" bit, 3 1/2" drill collars, and 2 7/8" tubing. Drill out cement retainer and cement to 4040'. Close BOP and test cement squeeze to 1000 psi. If squeeze perforations take fluid, contact production engineer and discuss remedial squeeze plans. If cement squeeze holds pressure, continue with procedure.

8. TIH and drill out CIBP. TIH to ±4600'. TOOH.

9. TIH with a cement retainer and ±4500' of 2 7/8" tubing. Set retainer at ±4500'. Test tubing to 6200 psi. Test tubing-casing annulus and cement retainer to 1000 psi.

10. MIRU cement company. NU surface lines and test to 3000 psi. Establish injection into Queen perforations using treated fresh water. Cement squeeze Queen perforations with 250 sacks of cement (4542'-4552'; 21 holes) using the attached recommended cement slurry. If possible, displace cement to retainer. Pull out of retainer and reverse out any excess cement. TOOH. RDMO cement company. WOC overnight.

11. TIH with a 4 3/4" bit, 3 1/2" drill collars, and 2 7/8" tubing. Drill out cement retainer and cement to 4600'. Close BOP and test cement squeeze to 1000 psi. If squeeze perforations take fluid, contact production engineer and discuss remedial squeeze plans. Otherwise, continue with procedure.

12. TIH to 4944'. Drill out cement retainer and cement to 5150'. Close BOP and test cement squeeze to 1000 psi. If squeeze perforations take fluid, contact production engineer and discuss remedial squeeze plans. Otherwise, continue with procedure.

13. TIH to 8540'. Drill out cement retainer and cement to 8750'. Close BOP and test cement squeeze to 1000 psi. If squeeze perforations take fluid, contact production engineer and discuss remedial squeeze plans. Otherwise, continue with procedure.

14. Drill out cement to 9000'. Close BOP and test cement squeeze to 1000 psi. If squeeze perforations take fluid, contact production engineer and discuss remedial squeeze plans. Otherwise, continue with procedure.

15. TIH to 9630'. Drill out cement retainer and cement to 9800'. Close BOP and test cement squeeze to 1000 psi. If squeeze perforations take fluid, contact production engineer and discuss remedial squeeze plans. Otherwise, continue with procedure.

16. RIH and drill out CIBP located at 11,140' and drill out retainer and cement at 11,190'. Clean out to PBTD at 12,409'. Circulate hole clean with treated 2% KCl water. TOOH.

17. RU electric line to perforate. RIH with 4" casing guns and perforate the Wolfcamp from 11,240'-11,256', 11,416'-11,426' (2 SPF, 90° phasing, total of 56 holes). POOH and RD electric line.

18. TIH with 5 1/2" treating packer, RBP with ball catcher, 2.25" SN, and ±11,500' of 2 7/8", 6.5#, N-80 tubing. Set the RBP at ±11,500 and pull back treating packer ±10' and set. Test the tubing/packer to 6200 psi. Release the treating packer and pull up to ±11,426'. Pickle tubing with 250 gallons of 15% NEFe HCl acid. Reverse out pickling fluids. Spot 100 gallons of 15% NEFe HCl acid. PU to 11,280'. Reverse remaining acid into tubing and set packer at 11,280'. NU stimulation valve.

19. MIRU stimulation company. RU surface lines and test to 6500 psi. Place 500 psi on 2 7/8" x 5 1/2" annulus. Monitor throughout the job. Pump spot acid away and continue with 1000 gallons of 15% NEFe HCl acid. Space out 33 RCNBS (Sp. Gr. = 1.3) throughout the job. Displace acid to bottom perforation with treated 2% KCl water. If ballout occurs, surge balls off perfs and continue displacement.

Treating Rate	= 4-6 BPM
Estimated Treating Pressure	= 5600 psi
Maximum Treating Pressure	= 6200 psi

20. Release treating packer and TIH to RBP. Release RBP and pull up to ±11,300'. Set RBP and pull back packer ±10'. Pressure test to 6200 psi. Release treating packer and spot 100g of 15% NEFe HCl acid. Pull the packer up hole to ±11,220'. Reverse remaining acid into tubing and set packer at ±11,220'. Place 500 psi on 2 7/8" x 5 1/2" annulus. Monitor throughout the job. Pump spot acid away and continue with 1600 gallons of 15% NEFe HCl acid. Space out 30 RCNBS (Sp. Gr. = 1.3) throughout the job. Displace acid to bottom perforation with treated 2% KCl water. If ballout occurs, surge balls off perfs and continue displacement.

Treating Rate	= 4-6 BPM
Estimated Treating Pressure	= 5600 psi
Maximum Treating Pressure	= 6200 psi

RDMO stimulation company.

21. Release treating packer and drop down to RBP. Release and lower RBP to ±11,470' and set. Pull back packer to ±11,220' and set. Swab/flow test well recording rates/volumes/cuts. If zone tests wet, a plug back procedure will be provided by the production engineer. If zone is productive, continue with procedure after obtaining sufficient test data.

22. Kill well with treated 2% KCl water. ND stimulation valve. Release packer and RIH through perforations. Release RPB and TOOH.

23. RU electric line to perforate. RIH with 4" casing guns and perforate the Wolfcamp from 11,108'-11,194', (2 SPF, 90 phasing, total 174 holes). POOH and RD electric line.

24. TIH with 5 1/2" RBP with ball catcher, 5 1/2" treating packer, 2.25" SN and ±11,230' of 2 7/8", 6.5#, N-80 tubing. Set RBP at ±11,230'. PU ±10' and set packer. Test tubing/RBP to 6200 psi. Release packer. Spot 200 gallons of 15% NEFe HCl acid. PU to ±10,980'. Reverse remaining acid into tubing and set packer at ±10,980'. NU stimulation valve.

25. MIRU stimulation company. RU surface lines and test to 6500 psi. Place 500 psi on 2 7/8" x 5 1/2" annulus. Monitor throughout the job. Pump spot acid away and continue with 8600 gallons of 15% NEFe HCl acid. Space out 261 RCNBS (Sp. Gr. = 1.3) throughout the job. Displace acid to bottom perforation with treated 2% KCl water. If ballout occurs, surge balls off perfs and continue displacement.

Treating Rate	= 4-6 BPM
Estimated Treating Pressure	= 5600 psi
Maximum Treating Pressure	= 6200 psi

RDMO stimulation company.

26. Swab/flow test well recording rates/volumes/cuts. If zone tests wet, a plug back procedure will be provided by the production engineer. If zone is productive, continue with procedure after obtaining sufficient test data.

27. Kill well with treated 2% KCl water. ND stimulation valve. Release packer and RIH through perforations. Release RBP and TOOH.

28. RU electric line to perforate. RIH with 4" casing guns and perforate the Wolfcamp from 10,882' - 10,908' and 11,066'-11,086' (2 SPF, 90 phasing, total 96 holes). POOH and RD electric line.

29. TIH with 5 1/2" RBP with ball catcher, 5 1/2" treating packer, 2.25" SN, and ±11,100' of 2 7/8", 6.5#, N-80 tubing. Set RBP at ±11,100'. PU ±10' and set packer. Test tubing/RBP to 6200 psi. Release packer. Spot 100 gallons of 15% NEFe HCl acid. PU to ±10,940'. Reverse remaining acid into tubing and set packer at ±10,940'. NU stimulation valve.

30. MIRU stimulation company. RU surface lines and test to 6500 psi. Place 500 psi on 2 7/8" x 5 1/2" annulus. Monitor throughout the job. Pump spot acid away and continue with 2000 gallons of 15% NEFe HCl acid. Space out 63 RCNBS (Sp. Gr. = 1.3) throughout the job. Displace acid to bottom perforation with treated 2% KCl water.

Treating Rate	= 4-6 BPM
Estimated Treating Prssure	= 5600 psi
Maximum Treating Pressure	= 6200 psi

31. Release treating packer and TIH to RBP. Release RBP and pull up to ±10,930'. Set RBP and pull back packer ±10'. Pressure test to 6200 psi. Release treating packer and spot 100g of 15% NEFe HCl acid. Pull the packer up hole to ±10,750' and set. Place 500 psi on 2 7/8" x 5 1/2" annulus. Monitor throughout the job. Pump spot acid away and continue with 2600 gallons of 15% NEFe HCl acid. Space out 42 RCNBS (Sp. Gr. = 1.3) throughout the job. Displace acid to bottom perforation with treated 2% KCl water. If ballout occurs, surge balls off perfs and continue displacement.

Treating Rate	= 4-6 BPM
Estimated Treating Pressure	= 5600 psi
Maximum Treating Pressure	= 6200 psi

RDMO stimulation company.

32. Release treating packer and drop down to RBP. Release and lower RBP to ±11,100' and set. Pull back packer to ±10,800' and set. Swab/flow test well recording rates/volumes/cuts. If zone tests wet, a plug back procedure will be provided by the production engineer. If zone is productive, continue with procedure after obtaining sufficient test data.

33. Kill well with treated 2% KCl water. ND stimulation valve. Release packer and RIH through perforations. Release RBP and TOOH.

34. TIH with production tubing as follows (assuming all zones are productive):

- Bull Plugged MA
- Perforated Sub
- Mechanical SN (2.25" ID)
- 22 joints of 2 7/8", 6.5#, N-80 tubing
- 5 1/2" TAC
- ±10,820' of 2 7/8", 6.5#, N-80 tubing

Set TAC with SN below perfs. ND BOP, NU pumping tee. TIH with the following rod string:

- 2 1/2" x 1 1/4" x 36' RHBM
- 7/8" pony rod and shear tool
- ±6900' of 1.2" fiberglass sucker rods with SHSMC
- ±3500' of 7/8" grade "D" steel sucker rods with FHSMC
- ±1150' of 1 3/8" sinker bars

35. Set and install an American conventional 640-365-144 pumping unit and hang rods on beam. Report production volumes to Midland office. Sheave unit as required to keep the well pumped off if possible.

Approved: T. J. Harrington Date: 2 May 91

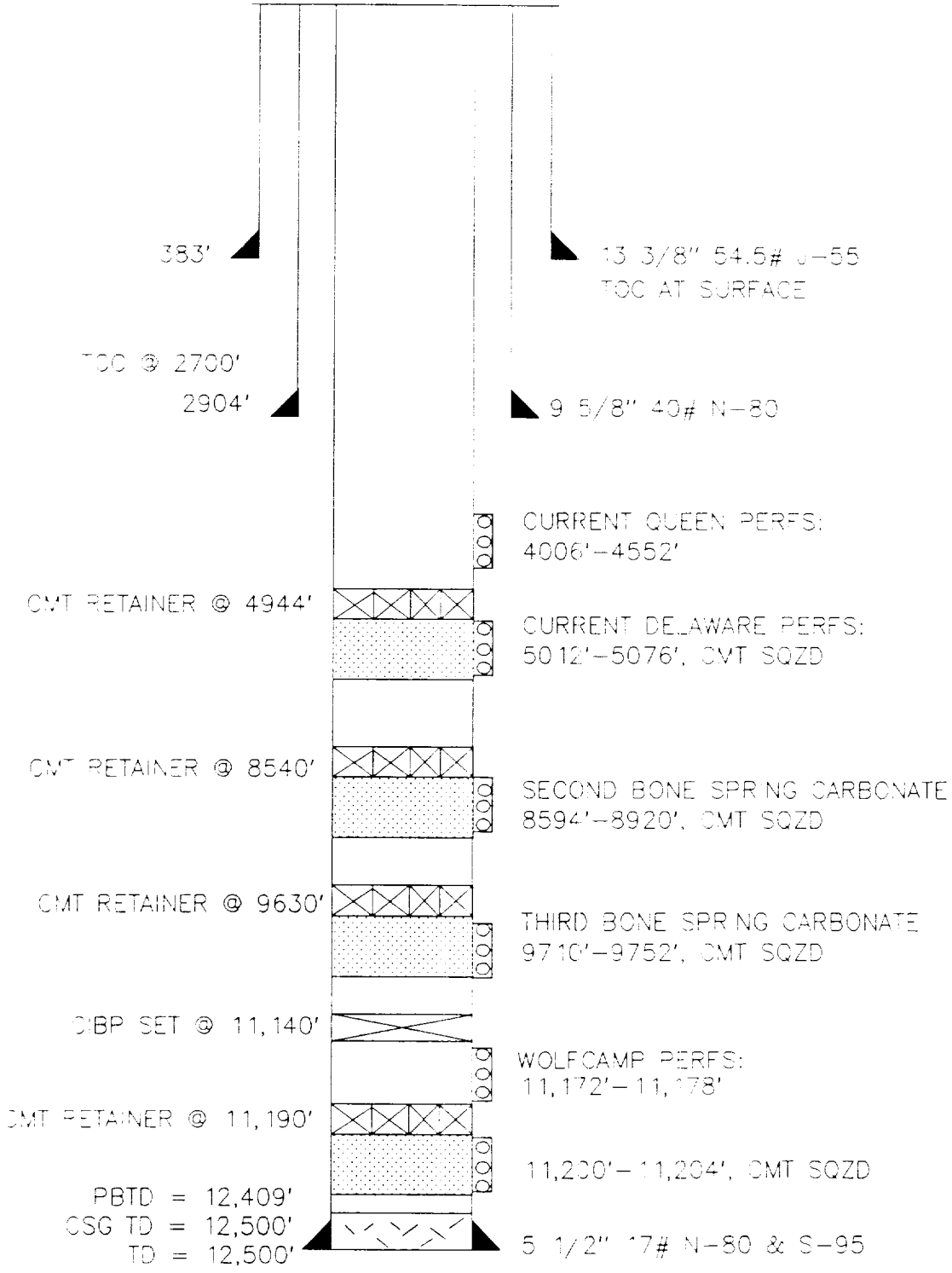
DOC 03/25/91

MERIDIAN OIL

SHINNERY FEDERAL #1

WILDCAT FIELD

LEA COUNTY, NEW MEXICO



Shinnery Federal No. 1
South Corbin (Wolfcamp) Field
Lea County, New Mexico

MECHANICAL DATA

Type Tubular:	OD (in)	ID (in)	Weight (#/ft)	Grade	Conn.	Depth (ft)	Collapse (psi)	Burst (psi)	Tensile (M lbs)	TOC (ft)
Surface Casing	13 3/8	12.615	54.5	J-55	STC	383	1,130	2,730	547	Surf
Intermediate Casing	9 5/8	8.835	40	N-80	LTC	2,904	3,090	5,750	737	Surf
Production Casing	5 1/2	4.892	17	N-80	LTC	0-9,826	6,280	7,740	348	±2700'
	5 1/2	4.892	17	S-95	LTC	9,826-12,500	8,580	9,190	392	
Tubing	2 7/8	2.441	6.5	N-80	EUE	11,140	11,160	10,570	145	---

GL = 3,831'
KB = 24'
DV Tool @ ±10,075'

1149.12