

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

5. LEASE DESIGNATION AND SERIAL NO.
NM-12412

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.)

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

1. OIL WELL GAS WELL OTHER

7. UNIT AGREEMENT NAME

2. NAME OF OPERATOR
Meridian Oil Inc.

8. FARM OR LEASE NAME
Federal "AW"

3. ADDRESS OF OPERATOR
21 Desta Dr., Midland, TX 79705

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' FNL & 660' FW

10. FIELD AND POOL, OR WILDCAT
~~East Lusk (Delaware)~~

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 26, T19S, R32E

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
3581.8' 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
FRACTURE TREAT
SHOOT OR ACIDIZE
REPAIR WELL
(Other)

PULL OR ALTER CASING
MULTIPLE COMPLETE
ABANDON*
CHANGE PLANS

WATER SHUT-OFF
FRACTURE TREATMENT
SHOOTING OR ACIDIZING
(Other)

REPAIRING WELL
ALTERING CASING
ABANDONMENT*

(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.)*

Add additional pay within the Delaware and stimulate for production. The procedure is attached.

RECEIVED
JAN 10 10 43 AM '91
OAS
AREA

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

SIGNED David L. Bradshaw TITLE Sr. Staff Env./Reg. Spec. DATE 17 January 1991

(This space for Federal or State office use)

APPROVED BY Orig. Signed by Adam Sain TITLE PETROLEUM ENGINEER DATE 1-22-91

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

9. MIRU stimulation company. RU surface lines and test to 5000 psi. RU pump on 2 7/8" x 5 1/2" annulus. Monitor throughout the job. Fracture stimulate the Delaware "E" sand (4990'-5000') according to the attached fracture stimulation schedule. Radioactively tag the pad and sand stages with scandium and Iridium isotopes respectively.

Fracture Fluid Type/Volume = 18,000 gallons Boragel G 3.5185
Propant = 52,900 lbs 20/40 Ottawa Sand
Treating Rate = 12 BPM
Treating Pressure = 3100 psi
Maximum Treating Pressure = 5000 psi @ 0 BPM

Flush stimulation to top perforation with treated 2% KCl water.

10. Shut well in to RD stimulation company and RU flowline. Leave well SI overnight. Flow well back on small choke to recover load water.

11. Swab test well recording rates/volumes/cuts.

"D" SAND TEST/"C-2" SAND RETRAC

12. Kill well with treated 2% KCl water. Release packer and POOH.

13. RU electric line. RU packoff head on top of BOP. RIH and set 5 1/2" CIBP at 4980'. POOH.

14. RU electric line to perforate. RIH with 4" casing guns and perforate the Delaware "D" sand at 4904'-4930' (4 SPF, 90° phasing, total 108 holes). RIH with 4" casing guns and perforate the Delaware "C-2" sand at 4848'-4866' (2 SPF, 90° phasing, total 38 holes). POOH and RD electric line.

NOTE: Use 4" 41B Hyperjet II charges (entry hole 9 5/8" casing = .27").

15. TIH with 5 1/2" RBP, 5 1/2" treating packer, 2.25" SN, and 2 7/8" 6.5# N-80 tubing. Set RPB at 4960'. PU 10' and set packer. Test tubing/RBP to 2000 psi. Release packer. PU and set packer at 4875'. NU stimulation valve.

16. MIRU stimulation company. RU surface lines and test to 5000 psi. RU pump on 2 7/8" x 5 1/2" annulus. Monitor annulus throughout the job. Pump 1300 gallons 7 1/2% NEFe HCl acid. Space out 160 RCNBS throughout the job (sp. gr. = 1.3). Displace acid to bottom perforation with treated 2% KCl water. If ballout occurs, surge balls off perfs and continue displacement.

Treating Rate = 2-3 BPM
Treating Pressure = 2200 psi
Maximum Treating Pressure = 5000 psi

**Federal AW #1
East Lark (Delaware) Field
Lea County, New Mexico**

Workover Procedure

1. MIRU pulling unit. ND pumping tee. POOH with rod string and pump. Kill well with treated 2% KCl water. ND tubing head. NU BOP. Release TAC and POOH with production tubing.

2. TIH with 4 3/4" bit and scraper for 5 1/2" casing to 5200'. POOH.

"E" SAND

3. RU electric line. RU pack-off head on top of BOP. RIH with GR/CCL tool and correlate across Delaware sands (4800'-5200'). POOH.

4. RU electric line to perforate. RIH with 4" casing guns and perforate the Delaware "E" sand at 4990'-5000' (4 SPF, 90° phasing, total 44 holes). POOH and RD electric line.

NOTE: Use 4" 41B Hyperjet II charges (entry hole 9 5/8" casing = .27").

5. TIH with 5 1/2" treating packer, 2.25" SN, and 2 7/8" 6.5# N-80 tubing. Set packer below perforations. Test tubing to 2000 psi. Release packer. PU and set packer at 4900'. NU stimulation valve.

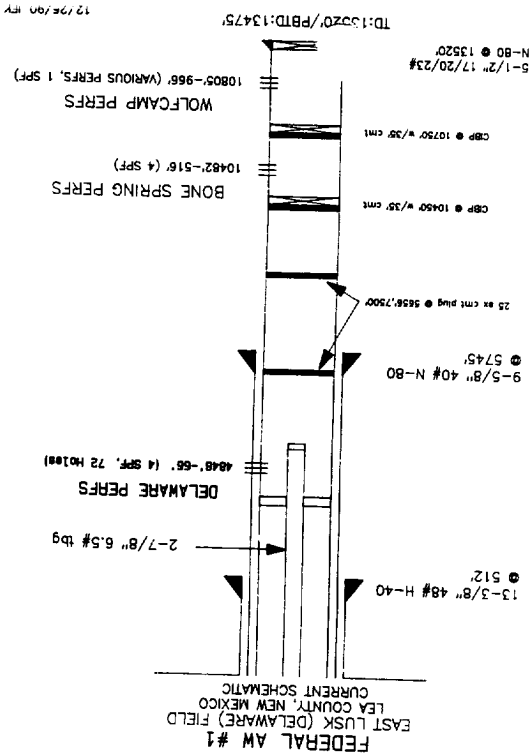
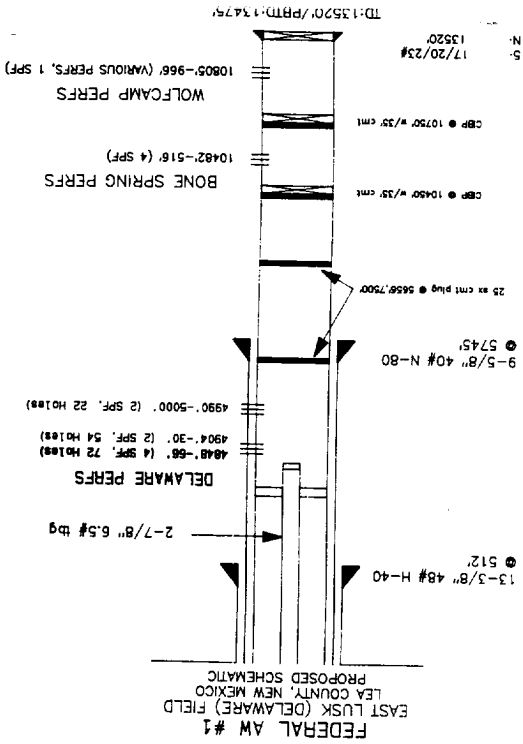
6. MIRU stimulation company. RU surface lines and test to 5000 psi. RU pump on 2 7/8" x 5 1/2" annulus. Monitor annulus throughout the job. Pump 500 gallons 7 1/2% NEFe HCl acid. Space out 66 RCNBS throughout the job (sp. gr. = 1.3). Displace acid to bottom perforation with treated 2% KCl water. If ballout occurs, surge balls off perfs and continue displacement.

Treating Rate = 4-5 BPM
Treating Pressure = 2500 psi
Maximum Treating Pressure = 5000 psi

RDMO stimulation company.

7. Swab test well recording rates/volumes/cuts. If fluid entry is limited, continue with fracturing procedure.

8. ND stimulation valve. Release packer and RIH through perforations. Reset packer at 4900'. NU stimulation valve.



**Federal AW #1
East Lusk (Delaware) 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	12.715	48.0	H-40	STC	512	770	1730	322	Surf
Intermediate Casing	9 5/8	8.835	40.0	N-80	LTC	5745	3090	5750	737	35
Production Casing	5 1/2	4.892	17.0	N-80	LTC	0-1305	6280	7740	348	3055
	5 1/2	4.778	20.0	N-80	LTC	1305-6635	8830	9190	428	
	5 1/2	4.670	23.0	N-80	LTC	6635-13520	11160	9880	502	
Tubing	2 7/8	2.441	6.5	N-80	8rd	5000	11160	10570	145	

PBTD = Tagged bottom at 4893' with production string 12/13/90
(pipe tally - no KB included)
A 25 sack cmt plug was spotted at ±5650' while abandoning the Bone Spring.