

submitted in lieu of Form 3160-5

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Sundry Notices and Reports on Wells

1. Type of Well
GAS

2. Name of Operator
MERIDIAN OIL

3. Address & Phone No. of Operator
PO Box 4289, Farmington, NM 87499 (505) 326-9700

4. Location of Well, Footage, Sec., T, R, M
1650' FSL, 1650' FWL Sec. 4, T-29-N, R-8-W, NMPM

5. Lease Number
SF-078487

6. If Indian, All. or
Tribe Name

7. Unit Agreement Name

8. Well Name & Number
Hill #1

9. API Well No.

10. Field and Pool
Blanco Mesa Verde

11. County and State
San Juan Co, NM

12. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OTHER DATA

Type of Submission	Type of Action	
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment	<input type="checkbox"/> Change of Plans
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion	<input type="checkbox"/> New Construction
<input type="checkbox"/> Final Abandonment	<input type="checkbox"/> Plugging Back	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Water Shut off
	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Conversion to Injectio
	<input checked="" type="checkbox"/> Other - pay add	

13. Describe Proposed or Completed Operations

It is intended to perforate and stimulate the Menefee and Lewis intervals and add to the existing Mesa Verde formation per the attached procedure.

RECEIVED
JAN 26 1994
OIL CON. DIV.
DIST. 3

RECEIVED
BLM
94 JAN 19 AM 8:05
070 FARMINGTON, NM

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

Signed [Signature] (REH) Title Regulatory Affairs Date 1/18/94

(This space for Federal or State Office use)

APPROVED BY _____ Title _____

CONDITION OF APPROVAL, if any:

APPROVED

Date
JAN 20 1994

DISTRICT MANAGER

NMOCD

Pertinent Data Sheet - Hill #1

Location: 1650' FSL, 1650' FWL, Section 4, T-29-N R-8-W, San Juan County, NM

Field: Blanco Mesaverde

Elevation: 6439' GL

TD: 5604'
PBTD: 5556'

Completion Date: 3/3/53 (original)
7/3/69 (workover)

DP Number: 28180

Initial Potential: 3850 MCF/D (original)
14,237 MCF/D (workover)

Casing Record:

<u>Hole Size</u>	<u>Casing Size</u>	<u>Weight & Grade</u>	<u>Depth Set</u>	<u>Cement</u>	<u>Top/Cement</u>
12-1/4"	9-5/8"	36.0# J-55	215'	150 sx	Surface
8-3/4"	7"	20.0# J-55	4720'	225 sx	3105' (TS)
6-1/4"	4-1/2"	10.5# J-55	5591'	160 sx	4330' (CBL)
	7" Float collar @ 4705'				
	4-1/2" Float collar @ 5559'				

Tubing Record:

<u>Tubing Size</u>	<u>Weight & Grade</u>	<u>Depth Set</u>
2-3/8"	4.7# J-55	5310' KB (170 jts)

Formation Tops:

Pictured Cliffs	3097'
Cliffhouse	4820'
Pt. Lookout	5309'
Mancos	5450'

Logging Record: GR Neutron, CBL, TS, CIL

Stimulation: Shot w/2040 SNG @ 4780'-5599'. Frac Mesaverde @ 4824'-5420' w/119,040 gal. water and 110,000# 20/40 and 20,000# 10/20 sand. Perfs @ 5310'-5420' w/60,180 gal. water and 50,000# 20/40 sand. Perfs @ 4824'-4890' w/58,860 gal. water and 60,000# sand, ran tbg.

Workover History: 6-19-69 Sidetrack well. Worked stuck tbg, shot tbg off @ 4760'. Cleaned out bridge @ 4280'-4675', cmt w/300 sxs, sqzd, pulled out of hole. Went in hole with pkr in hole @ 2155', cmt w/200 sx, sqzd. Drilling cmt @ 1935'-2185', set whipstock @ 4540', ran 4-1/2" casing.

<u>Production History:</u>	Initial Deliverability	4074 MCFD	3 BOPD
	Latest Deliverability	50 MCFD	0 BOPD

Transporter: EPNG

HILL #1 (SRC)
SW/4 Section 04, T-29-N, R-08-W
San Juan Basin, NM
Menefee/Lewis Pay-add

* **Contact BLM and NMOCD prior to performing work on this well** *

Comply with all BLM, NMOCD, and MOI rules and regulations.

1. Test location rig anchors and repair if necessary. Blow down tubing. MIRU. NU BOP, blooie line, and relief line. **Ship 5 jts 2-3/8" MOI replacement tbg. Be prepared to call for 5400' of 2-7/8" slimhole workstring if casing does not test to 3000 psi in Step 8.**
2. Install 8 X 400 bbl tanks and fill with 2% KCl water for fracture stimulation. Add 5 #'s biocide/tank before filling. Place fire and safety equipment in strategic locations.
3. Pressure test BOP for 15 minutes. TOOH with 170 jts. of 2-3/8" tubing and stand back. Visually inspect and replace any bad joints. TIH with 3-7/8" bit and 4-1/2"-10.5# casing scraper on 2-3/8" workstring and clean out to COTD @ 5556'. TOOH.
4. RU wireline. Set drillable BP above Cliffhouse @ 4800'. Spot approximately 10' of sand on top of RBP w/wireline bailer.
5. PU 4-1/2" pkr on 2 jts 2-7/8" tbg and set. Close pipe rams and pressure test BP and csg to 3800 psi. If csg does not pressure test, PU 4-1/2" pkr on 2-3/8" workstring and hunt leaks. Squeeze procedure will be provided if needed. 4-1/2" csg may be cut, removed and replaced if needed.

Squeeze Work to Cover Lewis

6. Cement top from previous CBL indicates TOC @ 4330'. Review CBL and perforate 4 squeeze holes @ approximately 4300' with short penetration tbg puncher, through 4-1/2" longstring but not through 7" intermediate casing.
7. Open intermediate valve and pump down 4-1/2" casing and establish rate through perfs while monitoring flow or blow out intermediate valve. Set 4-1/2" cement ret. on workstring @ 4250', sting in, establish rate and flow out intermediate valve. Squeeze w/ 450 sx "Class H" (includes 50% excess) and additives until cement is observed out intermediate valve. Sting out, reverse out. TOOH.
8. PU 3-7/8" bit, collars, and 2-3/8" tbg and drill out cement and retainer. Push junk to BP @ 4800'. Close rams and pressure test csg. to 3800 psi for 15 minutes*. Drill BP @ 4800' and clean out to COTD @ 5556'. TOOH.

**If casing does not test, notify office with leakoff and pressures, and prepare to locate leaks. Additional squeeze procedure may or may not be required. If, after confirming casing integrity with office, proceed.*

9. RU wireline. Set RBP @ 5250'. Spot 10' of sand on RBP. TIH w/4-1/2" pkr and set @ 5190'. Pressure test RBP to 3800 psi for 15 minutes. Unseat pkr and spot 200 gal. of inhibited 7-1/2% HCL w/ iron sequestering agent across Menefee perf zone. TOOH.
10. RU wireline. Perforate the following Menefee interval, with a 3-1/8" @ 4 SPF (90 degree phasing).

5000 - 5200' Approximately 120 holes (exact perforations to be determined later)

11. TIH with workstring and 4-1/2" packer. Set packer @ 4950' (above Menefee, below Cliffhouse) and prepare to breakdown perforations.

12. RU stimulation company. Breakdown and balloff w/ 1200 gallons of 7-1/2% HCl @ 4-10 bbl/min. with 1gal/1000 gal clay control, 4/1000 silt suspender, 1/1000 inhibitor and 5/1000 sequestering agent. Drop a total of (2X # of perfs)-7/8" RCN ball sealers spaced evenly throughout the job w/ 5 ball slugs every 10 balls dropped. Record injection rate and all breakdown pressures throughout job.
13. Release packer, TIH and knock off ball sealers to top of sand on RBP. TOOH w/ packer.
14. PU 4-1/2" straddle packer (Isolation Liner) on workstring and TIH. Set Straddle Packer to overlap Cliffhouse perfs @ 4824' to 4890'. **Bottom packer element set @ 4920' and top element @ 4800' +/- 10'**. TOOH.
15. PU 4-1/2" pkr on 2 jts 2-7/8" N-80 tubing and set.
16. RU stimulation company. Hold safety meeting. Pressure test surface lines to 4800 psi (1000 psi over maximum allowable treating pressure but no greater than working pressure of surface lines). Maximum treating pressure is 3800 psi. Fracture stimulate well w/ 30 # X-Link Gel according to attached procedure.
17. TIH w/ straddle packer retriever on workstring and retrieve straddle packer.
18. RU wireline. Set RBP above Cliffhouse @ 4790'. Spot approximately 10' of sand on top of RBP w/wireline bailer.
19. TIH w/ 4-1/2" packer on workstring and set @ 4700'. Pressure test BP to 3800 psi for 15 minutes. Release packer and spot 600 gallons of 7-1/2% HCL across Lewis interval. TOOH.
20. RU wireline. Perforate the following Lewis interval, with a 3-1/8" @ 4 SPF (90 degree phasing).

3700'-4700'
30 - 120 holes, depending on perf density.

Note: perforation intervals and perforation type are subject to change.
21. TIH with workstring and 4-1/2" packer. Set packer @ 3600' and prepare to breakdown perforations.
22. RU stimulation company. Hold safety meeting. Pressure test surface lines to 4000 psi (1000 psi over maximum allowable treating pressure but no greater than working pressure of surface lines). Maximum treating pressure is 3000 psi. Breakdown and balloff w/ 1200 gallons of 7-1/2% HCl @ 4 bbl/min. with 1gal/1000 gal clay control, 4/1000 silt suspender, 1/1000 inhibitor and 5/1000 sequestering agent. Drop a total of (2X # of perfs)- 7/8" RCN ball sealers spaced evenly throughout the job w/ 5 ball slugs every 10 balls dropped. Displace w/ Frac fluid. Record injection rate and all breakdown pressures throughout job.
23. Release packer, TIH and knock off ball sealers to top of sand on RBP. TOOH w/ packer.
24. PU 4-1/2" pkr on 2 jts 2-7/8" N-80 tubing and set.
25. RU stimulation company. Hold safety meeting. Pressure test surface lines to 4000 psi (1000 psi over maximum allowable treating pressure but no greater than working pressure of surface lines). Maximum treating pressure is 3000 psi. Fracture stimulate well w/ gelled water according to attached procedure.



26. Flow back well until returns diminish after stimulation. Un seat pkr and LD.

Page 3

Menefee/Lewis Pay Add

HILL #1

27. TIH w/notched collar on workstring and reverse out to upper RBP until sand returns are clean and water production is minimal. **Obtain pitot gauge.** TOOH with workstring.
28. TIH with retrieving head on workstring and reverse out to upper bridge plug. **Obtain pitot gauge.** Retrieve bridge plug. TOOH.
29. TIH with retrieving head on workstring and reverse out to lower bridge plug. **Obtain pitot gauge.** Retrieve bridge plug. TOOH.
30. TIH with 2-3/8" production tubing and SN one joint off bottom of string. CO to PBTD @ 5556'. When fluid production becomes negligible, land tubing at 5400' (note: 3 additional jts from original set). **Obtain final pitot gauge.**
31. ND BOP. NU wellhead. RDMO.


J. A. Howieson
 For DBJ

Vendors:

Packer Rental & Bridge Plugs:

(To be determined later)

Wireline Services:

(To be determined later)

Stimulation:


(To be determined later)

Frac Liner:

325-3575

← Halliburton Services

DBJ

JAS/jas 

c:\win\pro\hill1pro.doc