

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

990'FSL, 1020'FWL, Sec.15, T-32-N, R-12-W, NMPM

5. Lease Number

SF-078312

6. If Indian, All. or

Tribe Name

7. Unit Agreement Name

8. Well Name & Number

Hubbard #4

9. API Well No.

30-045-20464

10. Field and Pool

Blanco Mesaverde/
Basin Dakota

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

☒ Notice of Intent

☐ Abandonment

☐ Change of Plans

☐ Subsequent Report

☐ Recompletion

☐ New Construction

☐ Final Abandonment

☐ Plugging Back

☐ Non-Routine Fracturing

☐ Casing Repair

☐ Water Shut off

☐ Altering Casing

☐ Conversion to Injection

☒ Other - Pay add & bradenhead repair

13. Describe Proposed or Completed Operations

It is intended to repair the bradenhead and add pay to the subject well according to the attached procedure and wellbore diagram.

RECEIVED
DEC - 8 1994

OIL CON. DIV.
DIST. 3

NOV 14 1994
NOV 14 1994
NOV 14 1994

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

Signed Ray Hubbard (TJM4) Title Regulatory Affairs Date 11/23/94

(This space for Federal or State Office use)

APPROVED BY _____ Title _____ Date _____

CONDITION OF APPROVAL, if any:

APPROVED

DEC 01 1994

WATER MANAGEMENT

Pertinent Data Sheet - Hubbard #4

Location: 990' FSL, 1020' FWL, Unit M, Section 15, T32N, R12W, San Juan County, New Mexico
Latitude: Longitude:

Field: Blanco Mesaverde
Basin Dakaota

Elevation: 6067' GR

TD: 7270'
PBTD: 7265'

Completed: 05-15-69
Spud Date: 04-16-69

Initial Potential:
DK: AOF - 2106, SIPT - 1709
MV: AOF - 4553, SIPT - 934, SICP - 936

DP No: 29900 - MV
29901 - DK

Meridian W.I.: 100%
N.R.I.:

Prop. No: 0023316
Lease No: SF-078312

Casing/Liner Record:

<u>Hole Size</u>	<u>Csg Size</u>	<u>Wt. & Grade</u>	<u>Depth Set</u>	<u>Cement</u>	<u>Top/Cement</u>
15"	10 3/4"	32.75# H-40	325'	220 sxs	Circ/Surface
9 7/8"	7 5/8"	26.40# J-55	4751'	750 sxs	TOC @ 440'
6 3/4"	4 1/2"	10.5#/11.6# J-55	4660' - 7265'	360 sxs	Liner Top @ 4656' Circ

Tubing Record:

	<u>Tbg Size</u>	<u>Wt. & Grade</u>	<u>Depth Set</u>	
MV	1 1/2"	IJ	4848'	
DK	1 1/2"	IJ	7090'	Model 'D' Production Pkr @ 7090'

Formation Tops:

Ojo Alamo:	Undeveloped	Menefee:	4345'
Kirtland:	Undeveloped	Point Lookout:	4765'
Fruitland Coal:	1193'	Gallup:	6310'
Pictured Cliffs:	2448'	Graneros:	7039'
Cliffhouse:	4040'	Dakota:	7179'

Logging Record: ES Induction, Induction, GR-Density, Temp Survey, CBL

Stimulation:

Mesaverde:

Perf'd: 4826'-4842', 4866'-4880', 4886'-4904', 4906'-4914' w/2 SPF.
Frac'd: w/50,000# 20/40 sand, 20,000# 10/20 sand & 78,210 gal water.
Dropped 150 balls.

Dakota:

Perf'd: 2 Squeeze holes @ 7176'.
Perf'd: 7108'-7120', 7186'-7206', 7224'-7232' w/2 SPF.
Frac'd: 63,500# salt, 52,000# 40/60 sand, 20,000# 20/40 sand & 96,440 gal water.
Dropped 50 balls.

Workover History:

09/70: Pull tbg. Replace 2 jts 1 1/2" tbg @ 5000' & 5050'. Reran tbg. SI for test.
11/71: Pull tbg. Test for pkr leak. Test tbg. Restore producing status in MV. Swab DK.

Production Data:

Cum: 1439 MMCF
Rate: 88 MCFD
EUR: 2109 MMCF
BHP: 162#

HUBBARD #4

CURRENT

BLANCO MESAVERDE

UNIT M SEC 15, T32N, R12W, SAN JUAN COUNTY, NM

OJO ALAMO @
KIRTLAND @
FRUITLAND @ 1193'
PICTURED CLIFFS @ 2448'

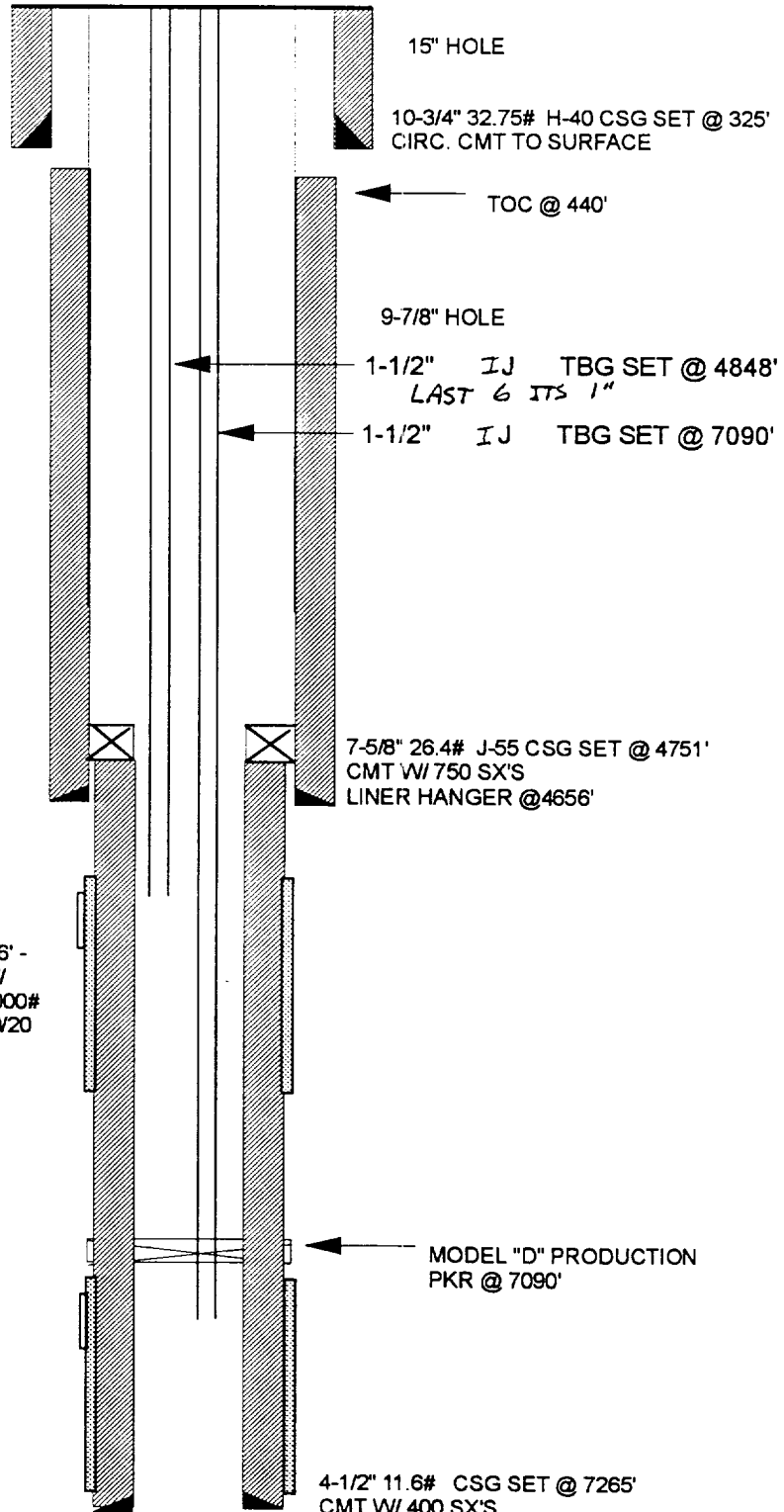
CLIFFHOUSE @ 4040'
MENELEE @ 4345'

POINT LOOKOUT @ 4765'

MESAVERDE PERFED 4826' -
4914 W/ 2 SPF', FRAC'D W/
78,210 GAL KCL WTR, 50,000#
20/40 SND. AND 20,000# 10/20
SND.

GALLUP @ 6310'
GRANEROS @ 7039'

DAKOTA @ 7179'
PERFED 7108' - 7232' W/2 SPF
96,440 GAL WTR, 63,500# SALT,
52,000# 40/60 SND, 20,000#
20/40 SND



TD
7270'
PBT
7265'

HUBBARD #4
SECTION 15 T32N R12W
Lat - Long by GITI: 36.981260 - 108.087980
Completion Procedure

1. Comply with all BLM, MOI & NMOCD rules & regulations. MOL and RU completion rig. NU BOP with flow tee and stripping head. Test operation of rams. NU blooie line and 2-7/8" relief line. Replace all bad valves on the wellhead.
2. Set 7 frac tanks and fill w/ 1% KCL water.
3. Take a pitot gauge. TOH w/ 1-1/2" 2.76#, IJ Tbg set @ 4848'. Last 6 joints are 1".
4. PU 1-1/2" IJ tbg and sting out of packer. TOH w/ 7090' of 1-1/2" tbg and model "G" seal assembly on bottom. Redress seal assembly.
5. TIH w/ 7-5/8" csg scraper on 2-3/8" tubing to the liner top. TOH.
6. TIH w/ 4-1/2" csg scraper on 2-3/8" tubing to 5200'. TOH.
7. RU wireline company. Run a GR from 5000' to 4400'. Tie into the attached CBL log and IE log. Set a RBP 10' above the liner top. Dump sand on top of the RBP.
8. Load the hole and run a CBL from RBP to surface.
9. Perf 2 SQ holes 50' above the TOC. TIH w/ 2-3/8" tbg. and fullbore pkr. Set pkr 100' above the perf holes. Squeeze the perf holes w/ 100% excess cmt w/ the BH valve open at surface. Circ 5 bbls of good cmt out of the bradenhead valve and then shut in valve and squeeze remaining cmt away. Over displace the cmt out of the 2-3/8" tbg by 2 bbls. Release packer and pull 2 stands. Reset packer and repressurize the squeeze. Hold pressure on cmt for 4 hrs then open at surface and check for flow. Shut well in until flow ceases. TOH w/ packer.
10. WOC for 12 hrs then drill out the cmt. Run a CBL to locate TOC, if cmt was not circulated. Pressure test the sqz holes to 750#.
11. TIH w/ 2-3/8" workstring and 7-5/8" packer. Load the hole from bottom. Pressure test the RBP to 3000#. Spot 15% HCL from 4650' to 3900' (~12 bbls). TOH.
12. If CBL was run in step 10 then run a CBL-GR from RBP to surface. If there is good cmt from 4650' to 3950' then selectively perforate the Cliffhouse formation. Perfs (28) are to be shot at the following intervals:

4034'	4071'	4093'	4120'	4136'	4161'	4172'	4185'	4235'
4257'	4265'	4276'	4292'	4304'	4315'	4330'	4339'	4349'
4362'	4382'	4396'	4426'	4436'	4440'	4449'	4464'	4527'
4593'								

***** **HOLD A SAFETY MEETING W/ ALL PERSONNEL ON LOCATION** *****

13. TIH w/ 3-1/2" frac string and 7-5/8" fullbore packer. Set the packer @ 3900'. Balloff the perforation w/ 56 balls and 2000 gals of 15% HCL acid. **MAX PRESSURE = 3000#**. A Frac Consultant will need to be present for the job.
14. Release packer and TIH to knock off the balls. TOH and set packer @ 4000'.
15. RU stimulation company and fracture stimulate the Cliffhouse with the attached procedure. **MAX PRESSURE = 6000#**. Hold 750# on the backside during the job. Monitor the backside throughout the job. When stimulation is finished TOH w/ packer and LD 3-1/2" frac string.

Hubbard #4
Completion Procedure

16. TIH with retrieving tool on 2-3/8" tubing and CO to bottom perf. When well is clean take a pitot gauge and latch onto the RBP and TOH.
17. TIH w/ 2-3/8" tbg and 3-7/8" bit and CO to PBTD. When wellbore is sufficiently clean TOH.
18. Call wireline company to run After Frac Gamma-Ray log from 4700' to top of RA material plus 200'.
19. TIH w/ 1-1/2" tbg w/ a "F" nipple one joint above the pump out plug and Model "G" seal assembly. Land tbg in Model "D" set @ 7090'
20. TIH w/ 1-1/2" tbg w/ a "F" nipple one joint above the pump out plug. Land tbg at 5000' ~~the bottom, land tbg @ 5000'.~~
21. ND BOP and NU wellhead. Pump out plug. Take a final pressures (Tbg & Csg) and a pitot gauge.
22. Release rig.

Approve: _____
Drilling Superintendent

Recommend: _____
Regional Engineer

Vendors:

Wireline:	Petro Wireline	326-6669
Stimulation:	Western	327-6222

Contacts:

Production Engineer	Todd J. Mushovic	326-9584(W) 324-0692(H)
Reservoir Engineer	Chip E. Lane	326-9740(W) 325-0075(H)
Frac Consultant	Mark Byars	320-0349(M) 327-0096(H) 327-8470(Pager)
	Mike Martinez	860-7518(M) 599-7429(Pager) 326-4861(H)

TJM