

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
1160'FNL, 810'FEL, Sec.26, T-26-N, R-6-W, NMPM

5. Lease Number
SF-079266
6. If Indian, All. or
Tribe Name
7. Unit Agreement Name
8. Well Name & Number
Vaughn #8
9. API Well No.
30-039-20151
10. Field and Pool
Blanco MV/Basin Dk
11. County and State
Rio Arriba Co, NM

RECEIVED
AUG 10 1994

OIL CON. DIV.
BLM

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

Type of Submission

☒ Notice of Intent
☐ Subsequent Report
☐ Final Abandonment

Type of Action

☐ Abandonment
☒ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☐ Other -
☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut off
☐ Conversion to Injection

13. Describe Proposed or Completed Operations

This well will be permanently repaired and then recompleted in the Blanco Mesaverde. The Blanco Mesaverde will be flow tested for 180 days, after which it will be commingled with the Basin Dakota. The Dakota will be temporarily abandoned until that time. Please refer to the attached procedure and wellbore diagram.

RECEIVED
JUL 23 1994
OIL CON. DIV.
BLM

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BLM
94 JUL 22 AM 9:59
070 FARMINGTON, NM

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

Signed [Signature] (TM3) Title Regulatory Affairs Date 7/20/94

(This space for Federal or State Office use)

APPROVED BY _____ Title _____

CONDITION OF APPROVAL, if any:

Date

APPROVED

JUL 25 1994

WATER MANAGEMENT

District I
PO Box 1980, Hobbs, NM 88241-1980
District II
PO Drawer DD, Artesia, NM 88211-0719
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
PO Box 2088
Santa Fe, NM 87504-2088

OK'd
THE
IN FIELDS
33

Form C-
Revised February 21, 1984
Instructions on back
Submit to Appropriate District Of
State Lease - 4 Co
Fee Lease - 3 Co

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

| | | | |
|----------------------------|------------------------------------|--------------------------|---|
| API Number 30-039-20151 | | Pool Code 72319-71599 | Pool Name Blanco Mesaverde/ Basin Dakota |
| Property Code 7623 | Property Name Vaughn | | Well Number 8 |
| OGRID No. 14538 | Operator Name MERIDIAN OIL INC. | | Elevation 6652' |

10 Surface Location

| | | | | | | | | | |
|--------------------|---------------|-----------------|-------------|---------|-----------------------|---------------------------|----------------------|------------------------|----------------|
| UL or lot no. A | Section 26 | Township 26N | Range 6W | Lot Idn | Feet from the 1160 | North/South line North | Feet from the 810 | East/West line East | County R.A. |
|--------------------|---------------|-----------------|-------------|---------|-----------------------|---------------------------|----------------------|------------------------|----------------|

11 Bottom Hole Location If Different From Surface

| | | | | | | | | | |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|

| | | | |
|-----------------------------|--------------------|-----------------------|--------------|
| 12 Dedicated Acres E/320 | 13 Joint or Infill | 14 Consolidation Code | 15 Order No. |
|-----------------------------|--------------------|-----------------------|--------------|

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

| | | |
|--|--|--|
| <p>16</p> <p>Not resurveyed, prepared from a plat dated 8-29-68 by David O. Vilven.</p> <p>RECEIVED AUG 10 1994 OIL CON. DIV. DIST. 3</p> | <p>17 OPERATOR CERTIFICATION</p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</p> <p><i>Peggy Bradfield</i> Signature Peggy Bradfield Printed Name Regulatory Affairs Title 8-9-94 Date</p> | |
| | <p>18 SURVEYOR CERTIFICATION</p> <p>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by or under my supervision, and that the same is true and correct to the best of my knowledge and belief.</p> <p>7-21-94 Date of Survey Signature and Seal of Registered Surveyor: <i>[Signature]</i> 6857 Certificate Number</p> | |
| | <p>MAILED 25 RECEIVED SEP 1 1994 STATE OF NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT</p> | |

Vaughn # 8
T26NR06W26A
Mesaverde & Dakota
Workover

GL @ 6652'

Current

GL @ 6652'

Proposed

12-1/4" Hole
 8-5/8" Casing @ 207'
 w/ 170 sxs to Surface

| | |
|-----------------|---------|
| Nacimiento Top | @ 303' |
| Ojo Alamo Top | @ 2320' |
| Kirtland Top | @ 2512' |
| Fruitland Top | @ 2810' |
| Pictured Cliffs | @ 2963' |
| Lewis Top | @ 3032' |
| Chacra Top | @ 3843' |
| Cliff House | @ 4622' |
| Manefee | @ 4650' |
| Point Lookout | @ 5310' |
| Mancos | @ 5420' |
| Niobrara | @ 6275' |
| Juana Lopez | @ 6806' |
| Greenhorn | @ 7114' |
| Graneros | @ 7163' |
| Two Wells | @ 7194' |
| Paguate | @ 7286' |
| Cubero | @ 7320' |
| Oak Canyon | @ 7423' |
| Encinal Canyon | @ 7440' |
| Burno Canyon | @ 7450' |
| Morrison | @ N.R. |

TOC @ 2460'
 Temp Survey

Stage Tool @
 3183'
 w/ 110 sxs

2-3/8"
 Tubing
 @ 7377'

Stage Tool @
 5501'
 w/ 150 sxs

Model R-3 PKR
 @ 7092'

Dakota
 Perforations
 144 Holes
 7196' to 7448'

PBTD @ 7408'
 TD @ 7528'

7-7/8" Hole
 4-1/2" Casing @ 7528'
 w/ 120 sxs

TOC @ 2460'
 Temp Survey

2-3/8"
 Tubing
 @ 5500'

Stage Tool @
 3183'
 w/ 110 sxs

Mesaverde
 Perforations
 24 Holes
 5207' to 5389'

Stage Tool @
 5501'
 w/ 150 sxs

Dakota
 Perforations
 144 Holes
 7196' to 7448'

PBTD @ 7486'
 TD @ 7528'

Model R-3 PKR
 @ 3220'

CIBP @ 5900'

This well will be commingled in the Mesaverde and Dakota. An allocation Formula will be finalized after a 6 month online sales testing period. MOI will work with the NMOCD in developing this allocation formula. Prior to commingled, the Dakota will be Temporarily Abandoned under a cast iron bridge plug, while the Mesaverde will be produced separately to help determine commingled production.

Vaughn # 8
Blanco Mesaverde/Basin Dakota Workover
UnitA-Sec26-T26N-R06W

Prior to Moving on Workover Rig, Inspect Location, Verify All Appropriate Equipment is on Hand. Dig work pit for water/cement recovery/flare pit, fence pits. Comply with all BLM, NMOCD, & MOI rules & regulations. **Always Hold Safety Meetings.**

-
- Ensure all approvals for Commingle work necessary have been approved.
 - Utilize EPNG Drill Gas.
 - Spot Five (5) Tanks & Fill Four (4)-400 bbl tanks with risers to pre-gel. Pre-Gel 2 tanks.
 - Use Only True 2% KCl water, (or substitute) Filter Frac & Acid water to 25 microns.
 - Two-hundred-Sixty (260) joints 2-3/8" 4.7# EUE N-80 tubing on location.
 - Six (6) 3-1/8" Drill Collars on location.
 - Will utilize trucked Nitrogen after initial work in place of drill gas.
 - 900 series BOP, 7" blooie line, manifold, & 1/4", 1/2", & 3/4" chokes as appropriate.
 - 2-7/8" N-80 Buttress Frac String (3400' +/- required).
-

1. Move In workover rig. Record and report SI pressures on tubing, casing, & bradenhead. Lay blowdown line. Blow down casing & tubing. Pump 20 bbls 2% KCl down tubing. ND WH, NU BOP & stripping head. Test all equipment!
2. PU & release Model R-3 PKR @ 7092'. TOOH, rabbit, & strap 2-3/8" tubing (from 7377', SN @ 7344'). Flow well out blooie line. Visually inspect tubing, service PKR since it will be rerun. Note any scale in tubing. Stand production string back in derrick. Lay down bottom 1800' of this pipe on a float.
3. PU 3-7/8" bit, float, 3-1/8" Drill Collars & 2-3/8" 4.7# N-80 EUE workstring. Rabbit & Strap pipe in the hole. RU powerswivel. Drill & Clean out with Gas & Foam sweeps to 7486'. NOTE: Cement retainer was turning @ 7408' and needs to be drilled & cleaned out. Note Drilling Mud in returns if any. Once cleaned up. TOOH with bit & collars. Use of N2 may be required.
4. PU notch collar, 4-1/2" 10.5# scraper, & float on 2-3/8". Short trip to 3200'. This short trip to ensure that DV tool @ 3183', which had been milled previously is passable. TOOH.
5. PU 4-1/2" RBP & 4-1/2" Packer Combination on 2-3/8". TIH & set RBP @ 7150'. Roll hole with 2% KCl water from bottom. Set PKR above RBP & Test RBP & tubing to 3500 psi. Hold for 10 minutes. Release PKR, close pipe rams, & Pressure test entire Casing string to 500 psi for 10 minutes. If PT does not hold Pull above each DV tool & test below to 1500 psi. TOOH.
6. RU wireline. Run GR-CCL-CBL from 7150' to surface. No gaps. Run with 500-1000 psi over entire interval hole. Note and report all cement tops and quality of bond over Mesaverde Interval. Run GR-dual spaced neutron log across 6200' to 7000', 3700' to 5500', & 2800' to 3100'. Actual Perforations will be verified by Engineering prior to shooting!!
7. PU retrieving head & TIH on 2-3/8". Retrieve Model 'G' RBP @ 7150' & TOOH. PU 4-1/2" CIBP & PKR combination. Set CIBP at 5490'. (Use of CIBP will facilitate use of a cement retainer should one be required.) Load hole from Bottom. Set PKR and test BP to 3000 psi. Release PKR & test Casing from surface to 3000 psi. Hold and record for 15 minutes on chart. If casing integrity is not sound, identify leaks, & Engineering will recommend squeeze cementing procedure & modify stimulation work. TOOH
1500 Psi.
8. Complete all squeeze cementing operations which will be determined at this time per Engineering design. WOC. Drill out Cement. Pressure test to 1200 psi.

Vaughn # 8
Meridian Oil Inc.
07/14/94

9. Perforate Mesaverde Interval with 3-1/8" HSC gun select fire 180 degree phasing 1 SPF JRC C-3130234 charges 10.5 gram 0.30" holes (0.30" is the Maximum Hole Size Preferred) bottom up as follows: (24 holes)

5207', 5208', 5218', 5221', 5223', 5227', 5233', 5240', 5255', 5257',

5264', 5265', 5273', 5274', 5286', 5297', 5313', 5315', 5317', 5321',

5355', 5366', 5370', 5389' Correlate w/ New & Old GR-CCL sections.

10. PU 4-1/2" SAP/SPIT tool (2' spacing & No isolation flapper!) on 2-3/8" N-80 tubing. Strap pipe in hole verifying previous tally. TIH below perfs on clean pipe/cement and test RBP and SAP tool to 3500 psi. **MAX PRESSURE 4000 PSI.** Will utilize **2500 gallons acid.** Pull up and treat each perforation with 100 gallons 10 % HCl acid w/ 1 gal/1000 clay stabilizer, 2 gal/1000 inhibitor, & 2 gal/1000 iron control. Ensure each perforation is open. Use excess acid on last 2 settings (Previous workovers have not broken down these perforations). TOOH when complete.

11. PU 2-7/8" N-80 buttress Frac String & PKR, w/profile nipple. TIH to 3400' +/- or good bonded pipe below DV tool. RU Frac Crew. Install 5000 psi working pressure full opening surface valve. **MAXIMUM SURFACE TREATING PRESSURE WILL BE 5000 PSI** or higher determined based upon friction effects.. Stimulate Mesaverde per attached schedule w/ 100,000# 20/40 Arizona, 20,000# 20/40 curable resin coated sand in 30# X-link Gel at 35 BPM. SI well.

11. SI well for 8 hrs. Flow well back through choke manifold limiting fluid production to 20 BLPH. When possible, Release PKR & TOOH laying down 2-7/8" N-80. TIH w/ notch collar, float, and clean well out to CIBP @ 5490' with gas. Clean well up approximately 48 hrs. TOOH Laying down 2-3/8" N-80 tubing.

12. RU wireline. Run AFTER FRAC GAMMA RAY. RD wireline.

13. Prepare to run production tubing string as follows for Mesaverde: expendable check, one joint 2-3/8" tubing, 'F' nipple, 75 joints, **Model R-3 PKR** and remaining tubing. Land tubing @ 5600', ensure PKR is below DV tool of 3183' by one joint. ND BOP, NU WH. Pump off expendable check and flow well up tubing obtain Mesaverde production gauge. RD & Release Rig to next location.

14. Operations will remanifold wellhead, and produce well for 30 days into EPNG pipeline. At end of 30 days, Run pressure bomb in SN and SI well. Leave well SI 7 days. Pull Bomb, and return Mesaverde to production until workover rig returns.

15. Move In, RU workover rig. Lay all lines and manifolds. Record flowing casing & tubing pressures. Blow casing and tubing down. Kill tubing with 20 bbls 2% KCl water. ND WH, NU BOP. TOOH with 2-3/8". TIH w/ 3-7/8" bit, 4-3-1/8" drill collars & drill CIBP clean well out with Nitrogen. TOOH & LD bit & collars.

16. TIH with final production tubing string for commingled production as follows: expendable check, one joint 2-3/8", F nipple, and remaining 2-3/8" tubing, **space Model R-3 PKR-** in string one jt below DV @ 3183'. Land tubing @ 7350'. ND BOP, NU WH. Pump off check w/ water & Nitrogen. Flow well up tubing verifying check pumped. RD release rig to next location.

17. Notify Marketing & government agencies that commingled production will occur in order to finalize allocation formula. At end of 90 days, the allocation formula will be submitted to NMOCD for approval, production will commence prior to actual allocation approval.

Vaughn # 8
Meridian Oil Inc.
07/14/94

Approved:


Drilling Superintendent

TEM

Recommended Vendors:

Stimulation(Acid,Fracturing,Nitrogen)

Radioactive Tagging

Cased Hole Services (Perforating, Logging)

Frac String (2-7/8")

Bridge Plugs, Packers, WAPP tool

Engineering

Western Company

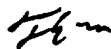
Protechnics, Intl

Petro Wireline

Cave Enterprises

Baker Service Tools

T. E. Mullins



327-6222

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325-9361-H