

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' FNL, 1650' FEL Sec. 27, T-19-N, R-9-W, NMPM
29

5. Lease Number
NM-03999

6. If Indian, All. or
Tribe Name

7. Unit Agreement Name

8. Well Name & Number
Grambling #2

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

☒ 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 -

13. Describe Proposed or Completed Operations

It is intended to repair the casing failure and bradenhead gas flow in this well per the attached procedure and wellbore diagram.

RECEIVED

OCT 25 1993

OIL CON. DIV.
DIST. 3

RECEIVED
BLM
OCT 19 1993

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

Signed [Signature] (TEM) Title Regulatory Affairs Date 10/17/93

(This space for Federal or State Office use)

APPROVED BY _____ Title _____ Date _____

CONDITION OF APPROVAL, if any:

APPROVED

OCT 21 1993

DISTRICT MANAGER

NMOCD

Grambling # 2
Check Casing Integrity & Stop Bradenhead Flow
Unit G, Section 27, T29N-R09W

Prior to Moving on Workover Rig, Inspect Location, Verify All Appropriate Equipment is on Hand. Dig small dirt pit for water/cement recovery, fence pits. Comply with all BLM, NMOCD, & MOI rules & regulations. All Oil is to be recovered to a tank. Always Hold Safety Meetings.

- Use Only True 1% KCl water, (No substitutes!)
 - Fifty (50) additional joints 2-3/8" 4.7# EUE J-55 tubing on location.
 - Four (4) 3-1/2" Drill Collars on location.
 - 600 series BOP, 7" blooie line, manifold as appropriate.
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1. Spot and fill One (1)-400 bbl rig tank with 1% KCl water & bactericide as required
2. Move on location. Spot all necessary equipment, manifolds, 7" blooie line & flow lines. Obtain & record pressures on Wellhead, Casing, Tubing, & Bradenhead. Rig up completion rig.
3. Open well to pit for 1 hour (Blow Well Down) on both tubing & casing, (flare if necessary). Follow by pumping 125 bbls water down casing and 25 bbls water down tubing (kill well with 150 bbls total). ND WH, NU 600 series BOP & stripping rubber. Test operation of BOP. Pump additional water if necessary. Inspect, lubricate & replace wellhead if necessary.
4. PU one jt. Screw into donut. LD donut. Tag fill. TOOH w/ 2-3/8" tubing. Visually inspect & replace tubing as necessary. Note corrosion or paraffin. Pump additional water if necessary. (If tubing is stuck, pump additional water down tubing while attempting to free. If unable to free tubing, call for freepoint truck, bumpersub, jars, & overshot. Contact Production Engineering!
5. Run scrapers on 2-3/8". PU 7" Size 14 Model C-3 (14BC) Rotovert scraper & run on 2-3/8" tubing to liner top @ 3673'. TOOH. PU 5-1/2" Size 12 Model C-3 (12A) Rotovert scraper & run on 2-3/8" tubing inside 5-1/2" liner to 3725+/- (25' above top perforation). TOOH.
6. PU Model C (45A) Retrievable Bridge Plug & Model C-1 (45A4) Fullbore PKR w/ Model S unloading Sub and TIH on 2-3/8". Note liner top. TIH & set RBP @ 3725'. Pull up & set PKR above RBP. Test BP, PKR, & tubing to 2500 psi. Hold pressure 15 minutes. Release PKR & Load hole from bottom with 1% KCl water. TOOH & LD PKR. Close blind rams & test casing to 500 psi.
7. RU wireline. Run Dump Bailer to top of RBP and dump 2 sxs sand on top of plug. POOH. Run GR-CCL-CBL from RBP to surface. No gaps. Note all stage tools & prior squeezes in well. RD wireline. Send copy to Production Engineering.
8. PU 7" Model C-1 (47C2) Fullbore PKR & TIH on 2-3/8" tubing. Test liner top for failure, Test across stage tool @ 3398', and find failure. Establish Rate into failure and monitor returns out bradenhead. Test backside above failure to identify if additional holes are present. Test to 2000 psi.
9. RU cementers. Set PKR 100' above failure. Establish rate and pump 100 sxs class B cement with 1% CaCl accelerator below PKR at minimal rate & maximum pressure. Hesitate squeeze on displacement in 10 minute stages. Displace below PKR 1 bbl. Hold 30 minutes. Release pressure, pull 2 stands, reverse circulate btms up until clean. Set PKR and apply 1500 psi. Hold minimum of 8 hrs. Max Squeeze Pressure 2000 psi.
10. Release PKR. TOOH. PU 6-1/4" bit, Four (4) 3-1/2" drill collars, & TIH on tubing. Tag cmt top. RU powerswivel & DO cement to liner top w/ water. Close pipe rams and pressure test squeeze to 600 psi. TOOH w/ bit & collars. Casing must hold 600 psi. (Run 4-3/4" bit if inside 5-1/2" casing).

11. RU Nitrogen truck, test lines. PU Model H retrieving head & float on 2-3/8" tubing. Stage in hole unloading well with Nitrogen, Max surface pressure 2000 psi. Engage & release RBP. Note pressure beneath Plug. Open well on blooie line, flare gas, & TOOH with RBP.

12. Prep to run production string as follows: expendable check, one jt 2-3/8", 'F' nipple (1.81" ID), remaining jts 2-3/8". Clean wellbore out to PBTD with Nitrogen. Land tubing at 4400' +/- ND BOP. NU WH. Pressure tubing to 1000 psi. Drop ball & pump off check.

13. RD & release rig to next location. Notify Marketing & return well to sales.

Approved:

Drilling Superintendent

Suggested Vendors:

| | | |
|----------------------------|--------------------------|----------|
| Engineering | T. E. Mullins <i>Thm</i> | 326-9546 |
| Production Operations | L. L. Byars | 326-9865 |
| Press Test & Cementing, N2 | Western Co. N. A. | 327-6222 |
| Logging & Wireline | Petro Wireline | 326-6669 |
| BP, Packers | Baker Service Tools | 325-0216 |

Grambling # 2

T29NR09W27G

Check Casing Integrity & Stop
Bradenhead Flow

Current

Proposed

12-1/4" Hole
9-5/8" Casing @ 1020'
w/ 345 sxs to Surface

8-3/4" Hole
7" Casing @ 3704'
w/ 530 sxs

| | |
|-----------------|-------|
| Ojo Alamo | 977' |
| Kirtland | 1117' |
| Fruitland | 1875' |
| Pictured Cliffs | 2074' |
| Chacra SS | 3650' |
| Cliff House | 3716' |
| Menefee | 3846' |
| Point Lookout | 4339' |

TOC Temp 1890'
Temp Survey

DV Tool @
3398'

2-3/8" Tubing
@ 4454'

Squeeze Twice
@ 3850'
w/200sxs Total

Mesaverde
Perforations
2 SPF 3750'-3778'
2 SPF 3988'-4186'
2 SPF 4262'-4398'

6-1/4" Hole
5-1/2" 15.5# Liner from
3673' to 4512'
w/ 100 sxs

PBTD @ 4447'
TD @ 4512'

Squeeze Failure To Surface If Possible

DV Tool @
3398'

2-3/8" Tubing
@ 4400'

Squeeze Twice
@ 3850'
w/200sxs Total

PBTD @ 4447'
TD @ 4512'

Original Well OpenHole Shot in 1951.
Liner Run & Cemented in 1958.
Well has had bradenhead water flow
since 1961. Recently turned to Gas.
Suspect Casing Failure

Well Will Be Repaired & Returned to Production

Jhm