

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
970' FSL, 990' FWL, Sec. 22, T-25-N, R-3-W, NMPM

5. Lease Number
NM-04075
6. If Indian, All. or
Tribe Name
7. Unit Agreement Name
8. Well Name & Number
Arco Hill #2
9. API Well No.
30-039-23914
10. Field and Pool
West Lindrith Gal/DK
11. County and State
Rio Arriba Co, NM

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

It is intended to plug and abandon the subject well according to the attached procedure and wellbore diagram.

RECEIVED
JUN 13 1996
OIL CON. DIV.
DIST. 3

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

Signed Robert Kent (ROS9) Title Regulatory Administrator Date 5/15/96
Chief, Lands and Mineral Resources

(This space for Federal or State Office use)

APPROVED BY Robert Kent Title Chief, Lands and Mineral Resources Date JUN 11 1996

CONDITION OF APPROVAL, if any:

Surface restoration requirements in enclosed ltr.

PLUG & ABANDONMENT PROCEDURE

5-6-96

Arco Hill #2
Lindrith Gallup Dakota
SW, Section 22, T-25-N, R-3-W
Rio Arriba Co., New Mexico

Note: All cement volumes use 100% excess outside pipe and 50' excess inside pipe. The stabilizing wellbore fluid will be 8.3 ppg, sufficient to balance all exposed formation pressures.

1. Install and test location rig anchors. Prepare blow pit. Comply to all NMOCD, BLM, and Meridian safety regulations. MOL and RU daylight pulling unit. Conduct safety meeting for all personnel on location. NU relief line. Blow down well and kill with water as necessary. ND wellhead and NU BOP. Test BOP.
2. POH and tally 2-7/8" tubing (261 joints, 8212'); visually inspect the tubing. If necessary, PU 2-3/8" workstring. Run 5-1/2" gauge ring to 8150' or as deep as possible.
3. **Plug #1 (Dakota formation, 8150' - 8080')**: PU 5-1/2" wireline set bridge plug and RIH; set at 8150'. PU 5-1/2" cement retainer and RIH; tag bridge plug. Pump 50 bbls water. Mix and pump 13 sx Class B cement and spot a balanced plug inside casing above the bridge plug to isolate the Dakota formation. POH with retainer to 7080'.
4. **Plug #2 (Gallup perforations and top, 7080' - 6927')**: Set 5-1/2" cement retainer at 7080'. Pressure test tubing to 1000#. Load casing with water and pressure test to 500#. Mix 21 sx Class B cement and spot above retainer covering the Gallup perforations. POH to 5478'.
5. **Plug #3 (Mesaverde top, 5478' - 5378')**: Mix 16 sx Class B cement and spot a balanced plug inside casing to cover Mesaverde top. POH to 3817'.
6. **Plug #4 (Pictured Cliffs, Fruitland, Kirtland and Ojo Alamo tops, 3817' - 3302')**: Mix 57 sx Class B cement and spot a balanced plug inside casing to cover Ojo Alamo top. POH.
7. **Plug #5 (Nacimiento top, 1770' - 1670')**: Perforate 3 HSC squeeze holes at 1770'. Establish rate into squeeze holes if casing tested. PU 5-1/2" cement retainer and RIH; set at 1720'. Establish rate into squeeze holes. Mix 59 sx Class B cement, squeeze 43 sx cement outside casing and leave 16 sx inside casing. POH and LD tubing.
8. **Plug #6 (575' - Surface)**: Perforate 3 HSC squeeze holes at 575'. Establish circulation out bradenhead valve. Mix and pump approximately 189 sx Class B cement down 5-1/2" casing, circulate good cement out bradenhead valve. Shut in well and WOC.
9. ND BOP and cut off wellhead below surface casing flange. Install P&A marker to comply with regulations. RD, MOL, cut off anchors, and restore location.

Recommended:


Operations Engineer

Approval:

Production Superintendent

Arco Hill #2

Current

Lindrith Gallup Dakota

970' FSL, 990' FWL

SW Section 22, T-25-N, R-3-W, Rio Arriba County, NM

Lat./Long.: 36.378769 / 107.137421

Today's Date: 5/9/96

Spud: 11-21-85

Completed: 2-22-86

Elevation: 7335' (GL)
7349' (KB)

Logs: FDC/CNL/GR;
DIL/FSL/GR/Cal.
Temp Survey &
CBL

Nacimiento @ 1720'

Ojo Alamo @ 3352'

Kirtland @ 3538'

Fruitland @ 3593'

Pictured Cliffs @ 3767'

Mesaverde @ 5428'

Gallup @ 6977'

Dakota @ 8130'

12-1/4" hole

9-5/8", 36.0#, K-55, Csg set @ 525',
Cmt w/360 cf (300 sx)(Circulated to Surface)

Workover History

Jun '90: Pull and LD pump & rods;
hot oil tubing; Pull and LD anchor;
clean out fill with bailer; land tubing.
Jul '90: Swab well.

Top of Cmt @ 2779' (TS)

DV tool @ 3697',
Cmt w/1600 cf (993 sx)

TOC @ DV Tool

2-7/8" Tbg @ 8212', (261 jts, 6.6#, J-55, EUE, 8rd),
(SN @ 8180')

DV tool @ 6006',
Cmt w/1526 cf (947 sx)

TOC @ DV Tool

Gallup Perforations:
7130' - 7384'

Dakota Perforations:
8186' - 8220'

5-1/2", 23.0#, SS-95, Csg set @ 8246',
Cmt w/1196 cf (787 sx)

PBTD 8235'

8-3/4" Hole

TD 8246'

Initial Potential

Initial AOF: N/A
Current SICP: N/A

Production History

Cumulative:
Current:

Gas

0.0 MMcf
0.0 Mcf/d

Oil

0.2 Mbo
0.0 bbls/d

Ownership

GW: 100.00%
NRI: 75.00%
TRUST: 00.00%

Pipeline

EPNG

Arco Hill #2

Proposed P&A

Lindrith Gallup Dakota

970' FSL, 990' FWL

SW Section 22, T-25-N, R-3-W, Rio Arriba County, NM

Lat/Long.: 36.378769 / 107.137421

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Temp Survey &
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Nacimiento @ 1720'

Ojo Alamo @ 3352'

Kirtland @ 3538'

Fruitland @ 3593'

Pictured Cliffs @ 3767'

Mesaverde @ 5428'

Gallup @ 6977'

Dakota @ 8130'

12-1/4" hole

575'

1670'

1770'

3302'

3817'

5378'

5478'

6927'

8080'

8-3/4" Hole

PBTD 8235'

TD 8246'

9-5/8", 36.0#, K-55, Csg set @ 525',
Cmt w/360 cf (300 sx)(Circulated to Surface)

Perforate @ 575'

Plug #6: 575' - Surface,
Cmt w/189 sx Class B Cmt

Cmt Retainer @ 1720'

Perforate @ 1770'

Plug #5: 1770' - 1670',
Cmt w/59 sx Class B Cmt,
43 sx outside csg and 16 sx
inside csg

Top of Cmt @ 2779' (TS)

Plug #4: 3817' - 3302',
Cmt w/57 sx Class B Cmt

DV tool @ 3697',
Cmt w/1600 cf (993 sx)

TOC @ DV Tool

Plug #3: 5478' - 5378',
Cmt w/16 sx Class B Cmt

DV tool @ 6006',
Cmt w/1526 cf (947 sx)

TOC @ DV Tool

Cmt Retainer @ 7080'

Gallup Perforations:
7130' - 7384'

Plug #2: 7080' - 6927',
Cmt w/21 sx Class B Cmt

Bridge Plug @ 8150'

Dakota Perforations:
8186' - 8220'

Plug #1: 8150' - 8080',
Cmt w/13 sx Class B Cmt

5-1/2", 23.0#, SS-95, Csg set @ 8246',
Cmt w/1196 cf (787 sx)

Initial Potential

Initial AOF: N/A
Current SICP: N/A

Production History

Cumulative:
Current:

Gas

0.0 MMcf
0.0 Mcf/d

Oil

0.2 Mbo
0.0 bbls/d

Ownership

GW: 100.00%
NRI: 75.00%
TRUST: 00.00%

Pipeline

EPNG

CONDITIONS OF APPROVAL FOR PERMANENT ABANDONMENT

Operator MERIDIAN OIL Well Name ARCO HILL #2

1. Plugging operations authorized are subject to the "General Requirements for Permanent Abandonment of Wells on Federal Leases."
2. For wells on Federal leases, Al Yepa with the Cuba Field Office is to be notified at least 24 hours (48 hours if possible) before the plugging operations commence. His phone number is (505) 289-3748. Office hours are 7:45 a.m. to 4:30 p.m.

For wells on Jicarilla leases notify Erwin Elote with the Jicarilla Apache Tribe at least 24 hours (48 hours if possible) before the plugging operations commence. His phone number is (505) 759-3242.
3. Blowout prevention equipment is required.
4. The following modifications to your plugging program are to be made :NONE
