

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 Inc.

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

4. Location of Well, Footage, Sec., T, R, M
1085'FSL, 925'FWL Sec.25, T-27-N, R-9-W, NMPM

5. Lease Number
I-149-IND-8473

6. If Indian, All. or
Tribe Name
Navajo

7. Unit Agreement Name
Huerfanito Unit

8. Well Name & Number
Huerfanito Unit #46

9. API Well No.
30-045-

10. Field and Pool
S.Blanco PC

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"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input type="checkbox"/> Other -
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut off
	<input type="checkbox"/> Conversion to Injection

13. Describe Proposed or Completed Operations

It is intended to fracture stimulate the subject well per the attached procedure and schematic.

RECEIVED
DEC-4 1992
OIL CON. DIV.
DIST. 3

RECEIVED
BLM
DEC 23 PM 2:35
DIST. 3

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

Signed [Signature] (DB) Title Regulatory Affairs Date 11/18/92

(This space for Federal or State Office use)

APPROVED BY _____ Title _____

CONDITION OF APPROVAL, if any:

APPROVED

Date

NOV 30 1992

AREA MANAGER

**Huerfanito Unit #46
Blanco PC South (Gas)
SW/SW/4 Sec. 25, T27N, R09W**

PROCEDURE:

Prior to move set rig anchors. Construct reserve and blow pit.
Notify Farmington BLM (326-6201) 24 hours prior to commencing operations.
Comply with all MOI, federal and state regulations.

1. MOL & RU. RU 2 7/8" 2M choke manifold. Blow well down and kill with fresh water as required. ND wellhead and NU 7 1/16" 3M BOP, stripping head and blooie line on top of existing 5 1/2" tubinghead. Actuate rams to test proper functioning.
 2. TOH and lay down 99 joints of 1" production tubing.
 3. Tally 2 3/8" 4.7# J-55 8rd EUE tubing. TIH with 5 1/2" casing scraper to +/-2100'.
 4. RU wireline and TIH with 5 1/2" 15.5# top-drillable bridge plug. Set bridge plug at +/-2075' (60' above 5 1/2" casing shoe @ 2135').
 5. ND BOP and choke manifold. Cutoff 5 1/2" Rector tubinghead. NU 5 1/2" Larkin SOW tubinghead. NU BOP and choke manifold. Test BOP for proper functioning
 6. RU wireline, TIH and perforate two (2) 1/2" squeeze holes at 1485'. TOH and RD wireline.
 7. PU and TIH with 5 1/2" 15.5# cement retainer and setting tool on 2 3/8" tubing. Set retainer at 1435'. Pressure test tubing to 1000 psi. With bradenhead open, establish rate and pressure into squeeze holes with fresh water. Squeeze with 78 sx of Class "B" with 2% CaCl₂. Displace cement to top of retainer.
 - 245' plug outside 5 1/2" casing to isolate 50' above and below Ojo Alamo (100% excess).
 8. RU wireline and perforate two (2) 1/2" squeeze holes at 160'. RD wireline.
 9. TIH with 2 3/8" tubing open-ended to 90'. Close pipe rams, keep bradenhead open. Establish rate and pressure into squeeze holes with fresh water. Squeeze with Class "B" with 2% CaCl₂ as required to circulate bradenhead (75 sx estimated). Once cement circulates to surface, close bradenhead and displace cement with fresh water to +/-130'. Hold final squeeze pressure for a minimum of two hours. Open pipe rams and TOH with tubing. WOC.
 - 160' surface plug outside 5 1/2" casing to fulfill P&A requirements.
 10. PU and TIH with 4 3/4" mill on 2 3/8" tubing. Drill out top squeeze and cement retainer with fresh water. Unload hole with air. TIH and CO to top of bridge plug at +/-2075' circulating with air-mist as needed. Drill bridge plug. TOH.
 11. PU and TIH with 4 3/4" bit on 2 3/8" workstring to 5 1/2" casing shoe at 2135'. CO open-hole section from 2135'-2215' with air-mist. Circulate and CO as needed until hole stabilizes.
 12. Drill 185' of hole from 2215'-2400' with air-mist. Circulate at total depth until returns stabilize and hole is clean. TOH laying down.
 13. RU wireline. Run open-hole logging suite, IND/LDT/CNTG/TDT/NGT, from 2135'-2350'. RD wireline.
 14. Tally and prep to run 3 1/2" casing string. Make up cement nose guide shoe, 30' shoe joint and latch down baffle. Threadlock all connections to the top of the shoe joint. TIH with casing running one 3 1/2" slimhole centralizer on first five joints. Space out casing to land top collar +/-1' above tubinghead. Tie-in to landing joint and circulate casing to setting depth at 2350' with air-mist. Once on bottom, circulate hole clean.
 15. RU to cement 3 1/2" casing. Pump 5 bbls fresh water ahead of cement. Mix and pump 50 sx (59 ft³) of Class "B" with 2% CaCl₂. Drop 3 1/2" displacement plug. Displace cement with 5 bbls of 10% MSA acid followed by +/-15 bbls of fresh water. Bump plug to 500 psi over displacement pressure (do not exceed 1/4 bbl calculated displacement volume). Check latch down plug for proper operation. RD cementers.
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**Huerfanito Unit #46
Blanco PC South (Gas)
SW/SW/4 Sec. 25, T27N, R09W**

16. ND BOP. Set slips on casing in tension with +/-10M#. NU full-opening 4 1/16" 5000# flanged frac valve and adaptor on top of casing. WOC four (4) hours, pressure test casing to 5000# for 15 minutes.
17. Release rig and move off. Prep to stimulate. WOC a minimum of 18 hours prior to completing.
18. NU 5" 15000# frac flange on top of frac valve. All connections and fittings must be rated to a minimum of 5000#.
19. RU wireline. Run 3 1/2" 9.2# gauge ring to 2275'. Insure casing is free from restriction. Run GR/CBL/CCL from 2300'-1600'.
20. Perforate as follows, total perforating; 15', 15 holes. RD wireline.

<u>Depth</u>	<u>Feet</u>	<u>SPF</u>	<u>Holes</u>
2155'	1	1	1
2158'	1	1	1
2161'	1	1	1
2167'	1	1	1
2174'	1	1	1
2179'	1	1	1
2181'	1	1	1
2186'	1	1	1
2191'	1	1	1
2193'	1	1	1
2200'	1	1	1
2204'	1	1	1
2207'	1	1	1
2216'	1	1	1
2220'	1	1	1
Totals:	15		15

* Perfs will be adjusted to open-hole logs as needed.

21. RU to breakdown. Breakdown perforations with 15% inhibited acid (15 bbls total acid to perfs). Ball-off with ten (15) 7/8" ball sealers. Displace acid with 2% KCl to top perforation.
22. RU wireline. TIH with 3 1/2" junk basket. Knock off balls and TOH. RD wireline.
23. RU to frac down 3 1/2" casing. **Frac during daylight hours only.**
24. Fracture stimulate in 1.0 to 3.0 ppg stages at 30 bpm constant downhole rate with 84,600 gal of 70Q N2 foamed 20# linear guar gel and 79.8M# 10/20 mesh Brady sand. Flush to 500' above top perforation. **Maximum treating pressure is 5000 psi.**
25. Flow back frac to clean up well. Once clean, return well to sales. Tubingless completion.

Huerfanito Unit #46
South Blanco Pictured Cliffs
SW/SW/4 Sec.25, T27N, R09W
Wellbore Schematic

