

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, 1650' FWL, Sec.3, T-26-N, R-9-W, NMPM

5. Lease Number
SF-078135

6. If Indian, All. or
Tribe Name

7. Unit Agreement Name

Huerfanito Unit
8. Well Name & Number
Huerfanito Unit #103

9. API Well No.
30-045-11704

10. Field and Pool
Ballard Pictured Cliffs/
~~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

☒ Notice of Intent
☐ Subsequent Report
☐ Final Abandonment

Type of Action

☐ Abandonment
☒ Recompletion
☒ Plugging Back
☐ Casing Repair
☐ Altering Casing
☒ Other - Abandon Dakota

☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut off
☐ Conversion to Injection

13. Describe Proposed or Completed Operations

It is intended to plugback the Dakota formation and recomplete the Pictured Cliffs formation of the subject well according to the attached procedure and wellbore diagram.

RECEIVED
OCT 19 1995
OL

NOV 1 1995
DISTRICT MANAGER

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

Signed [Signature] (PMP1) Title Regulatory Administrator Date 10/19/95

(This space for Federal or State Office use)

APPROVED BY _____ Title _____ Date _____

CONDITION OF APPROVAL, if any:

APPROVED

OCT 31 1995

DISTRICT MANAGER

NMOCD

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

Form C-10
Revised February 21, 199
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 APT Number 30-045-11704		2 Pool Code 71439/71599		3 Pool Name Ballard Pictured Cliffs/Basin Dakota	
4 Property Code 7138		5 Property Name Huerfanito Unit			6 Well Number 103
7 OGRID No. 14538		8 Operator Name MERIDIAN OIL INC.			9 Elevation 6319'

10 Surface Location

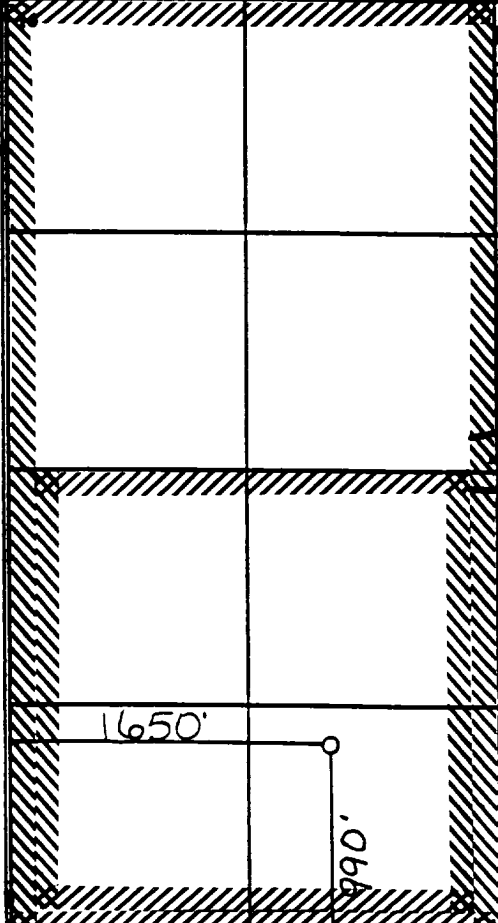
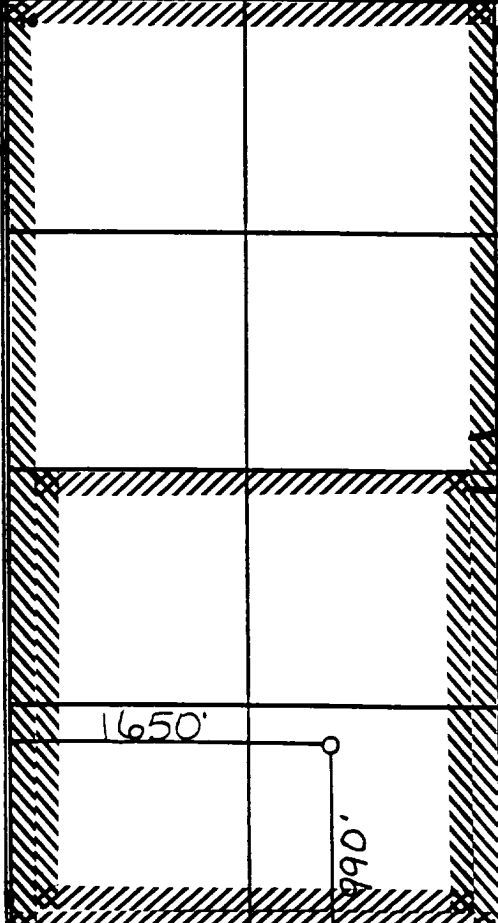
UL or lot no. N	Section 3	Township 26 N	Range 9 W	Lot Ida	Feet from the 990	North/South line South	Feet from the 1650	East/West line West	County S.J.
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11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
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12 Dedicated Acres 160-M/320-89-	13 Joint or Infill	14 Consolidation Code	15 Order No.
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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

	Not resurveyed, prepared from a plat by David O. Vilven dated 5-24-66.	17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.	
		Signature Peggy Bradfield Printed Name Regulatory Administrator Title 10-24-95 Date	
	RECEIVED NOV - 8 1995 OIL CON. DIV. DESL 2	18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.	
		10-23-95 Date of Survey Signature and Seal of Professional Surveyor NEALE C. EDWARDS NEW MEXICO 0857 Certificate Number	

HUERFANITO UNIT #103 PC
Workover Procedure
N 3 26 9
San Juan County, N.M.
Lat-Long: 36.512604 - 107.778946

PLUGBACK PROCEDURE

1. Comply to all NMOCD, BLM, & MOI rules & regulations. MOL and RU P&A rig. NU 6" 900 series BOP w/flow tee and stripping head. NU blooie line & 2-7/8" relief line.
2. TOH w/ tbg & pkr. Run 4-1/2" gauge ring to 6345'. TIH w/4-1/2" cmt ret on 2-3/8" tbg & set @ 6345' (50' above top Graneros). PU & test tbg to 3000 psi & sq DK perfs w/42 sx CI "G" cmt (100% excess). Sting out of cmt ret & reverse out cmt & spot 12 bbl mud. TOH.
3. Perf 2 sq holes @ 5566' (50' below top of Gallup). TIH w/cmt ret on 2-3/8" tbg & set @ 5550'. Sq w/40 sx cmt (100% excess). This will fill backside from 5566' to 5466' (50' above top of Gallup). Sting out & spot 11 sx cmt (50% excess) to fill inside pipe from 5566' to 5466'. PU to 5400' & reverse out & spot 29 bbl mud. TOH.
4. Perf 2 sq holes @ 3643' (50' above top of MV). TIH w/cmt ret on 2-3/8" tbg & set @ 3630'. Sq w/40 sx cmt (100% excess). This will fill backside from 3643' to 3543' (50' above top of MV). Sting out & spot 11 sx cmt (50% excess) to fill inside pipe from 3643' to 3543'. PU to 3500' & reverse out & spot 21 bbl mud. TOH.
5. Set CIBP on wireline @ 2170' & top w/1 sx sand.
6. MI Blue Jet. Run an advanced integrated data processing GSL neutron log 2160'-1800' & coorelate to open hole log.
7. ND BOP & NU wellhead & tree. Rig down & release P&A rig.

RECOMPLETION PROCEDURE

8. Comply to all NMOCD, BLM, & MOI rules & regulations. MOL and RU completion rig. NU 6" 900 series BOP w/flow tee and stripping head. NU blooie line & 2-7/8" relief line.
9. TIH w/4-1/2" ret BP - pkr combo on 2-3/8" tbg & locate csg leak. Set ret BP 100' below csg leak & top w/1 sx sand. W/ pkr ~200' above csg leak, sq w/cmt as required. Attempt to circ out bradenhead valve. Max pressure is 1500 psi. Release pkr, reverse out cmt, & repressure. WOC. TOH w/tbg & pkr.
10. TIH w/3-7/8" bit on 2-3/8" tbg & drill & C.O. cmt w/water. Pressure test to 500 psi. Resq if necessary. When well pressure tests OK, TOH. TIH w/retrieving head on 2-3/8" tbg & retrieve BP & TOH.
11. MI Basin Perforating. Run GR-CCL & coorelate to neutron log. Perf PC w/1 spf @ 2119', 15', 11', 07', 03', 2099', 95', 89', 85', 81'. Total 10 holes. Perf w/2-1/8" SHOGUN SDP STP-2125-401NT 14 gr charges which make a 0.27" hole & 21.8" of penetration in concrete

HUERFANITO UNIT #103 PC - RECOMPLETION PROCEDURE

12. TIH w/4-1/2" pkr on 2-7/8" NUE N-80 rental frac string w/shaved collars & set @ 1700'. Break down PC perms w/2000 gal 15% HCL & 25 7/8" 1.3 sp gr perf balls. Acidize @ 7 BPM w/max pressure = 6000 psi. Lower pkr to 2130' to knock off balls. Reset pkr @ 2000'.
13. Spot & fill 2-400 bbl. frac tanks w/2% KCL water. Filter all water to 25 microns. One tank is for gel & one tank is for breakdown water. Usable gel water required for frac is 355 bbls.
14. Frac PC down frac string w/49,000 gals. of 70 quality foam using 30# gel as the base fluid & 80,000# 20/40 Arizona sand. Pump at 50 BPM. Monitor bottomhole & surface treating pressures, rate, foam quality, & sand concentration with computer van. Sand to be tagged w/ 0.4 mCi/1000# Ir-192 tracer. Max. pressure is 6000 psi & estimated treating pressure is 5500 psi. Treat per the following schedule:

Stage	Foam Vol. (Gals.)	Gel Vol. (Gals.)	Sand Vol. (lbs.)
Pad	14,000	4,200	---
1.0 ppg	10,000	3,000	10,000
2.0 ppg	10,000	3,000	20,000
3.0 ppg	10,000	3,000	30,000
4.0 ppg	5,000	1,500	20,000
Flush	(478)	(150)	0
Totals	49,000	14,700	80,000#

Shut well in after frac for six hours in an attempt to allow the gel to break. Treat frac fluid w/the following additives per 1000 gallons:

- * 30# J-48 (Guar Gel mix in full tank - 16,000 gal)
- * 1.0 gal. Aqua Flow (Non-ionic Surfactant mix in full tank)
- * 1.0# GVW-3 (Enzyme Breaker mix on fly)
- * 1.0# B - 5 (Breaker mix on fly)
- * 3.0 gal Fracfoam I (Foamer mix on fly)
- * 0.38# FracCide 20 (Bacteriacide mix on full tank)

15. Open well through choke manifold & monitor flow. Flow @ 20 bbl/hr, or less if sand is observed. **Take pitot gauges when possible.**
16. TOH w/pkr & frac string. TIH w/notched collar on 2-3/8" tbg & C.O. to 2160' w/air/mist. Monitor gas & water returns & **take pitot gauges when possible.**
17. When wellbore is sufficiently clean, TOH & run after frac gamma-ray log from 2160'-1800'.
18. TIH w/2-3/8" tbg w/standard seating nipple one joint off bottom & again cleanout to 2160'. Use expendable check if necessary. When wellbore is sufficiently clean, land tbg @ 2080' KB. **Take final water & gas samples & rates.**
19. ND BOP & NU wellhead & tree. Rig down & release rig.

Approve: _____
Drilling Superintendent

HUERFANITO UNIT #103 PC - RECOMPLETION PROCEDURE

VENDORS:

Logging:	Blue Jet	325-5584
Perfing	Basin	327-5244
Fracturing:	Western	327-6222
RA Tag:	Pro-Technics	326-7133

PMP

Pertinent Data Sheet - HUERFANITO UNIT #103 DK

Location: 990' FSL & 1650' FWL, Unit N, Section 3, T26N, R09W, San Juan County, New Mexico

Field: Ballard PC

Elevation: 6319' GL
13' KB

TD: 6753'

PBTD: 6705'

Completed: 6/30/66

Spud Date: 6/6/66

DP #: 30063B

Lease: Fed: SF 078135

GWI: 63.37428%

NRI: 50.94399%

Prop#: ?????????0

Initial Potential: DK: 2424 MCF/D, SICP=2105 psi

Casing Record:

<u>Hole Size</u>	<u>Csg Size</u>	<u>Wt. & Grade</u>	<u>Depth Set</u>	<u>Cement</u>	<u>Cement (Top)</u>
12-1/4"	8-5/8"	24# H-40	322'	210 sx.	Circ Cmt
7-7/8"	4-1/2"	10.5# J-55	6753'	100 sx.	6365' @ 75% EFF.
		Stage Tool @	4683'	155 sx	4080' @ 75% EFF.
		Stage Tool @	2183'	130 sx	1740' - Survey

Tubing Record:

<u>Tbg. Size</u>	<u>Wt. & Grade</u>	<u>Depth Set</u>	
2-3/8"	4.7# J-55	6620'	212 Jts
	Guiberson "Uni-pkr" 6 PKR @	6362'	
	On-Off Tool on top PKR		

Formation Tops:

Ojo Alamo:	1220'	Cliffhouse	3593'
Kirtland Shale:	1346'	Gallup	5516'
Fruitland:	1855	Graneros	6395'
Pictured Cliffs:	2070'	Dakota	6513'

Logging Record: Induction, Density,

Stimulation: Perf DK @ 6426'-36', 6518'-28', w/2 spf & 6598'-6618' w/1 spf & fraced w/45,000# sand in water.

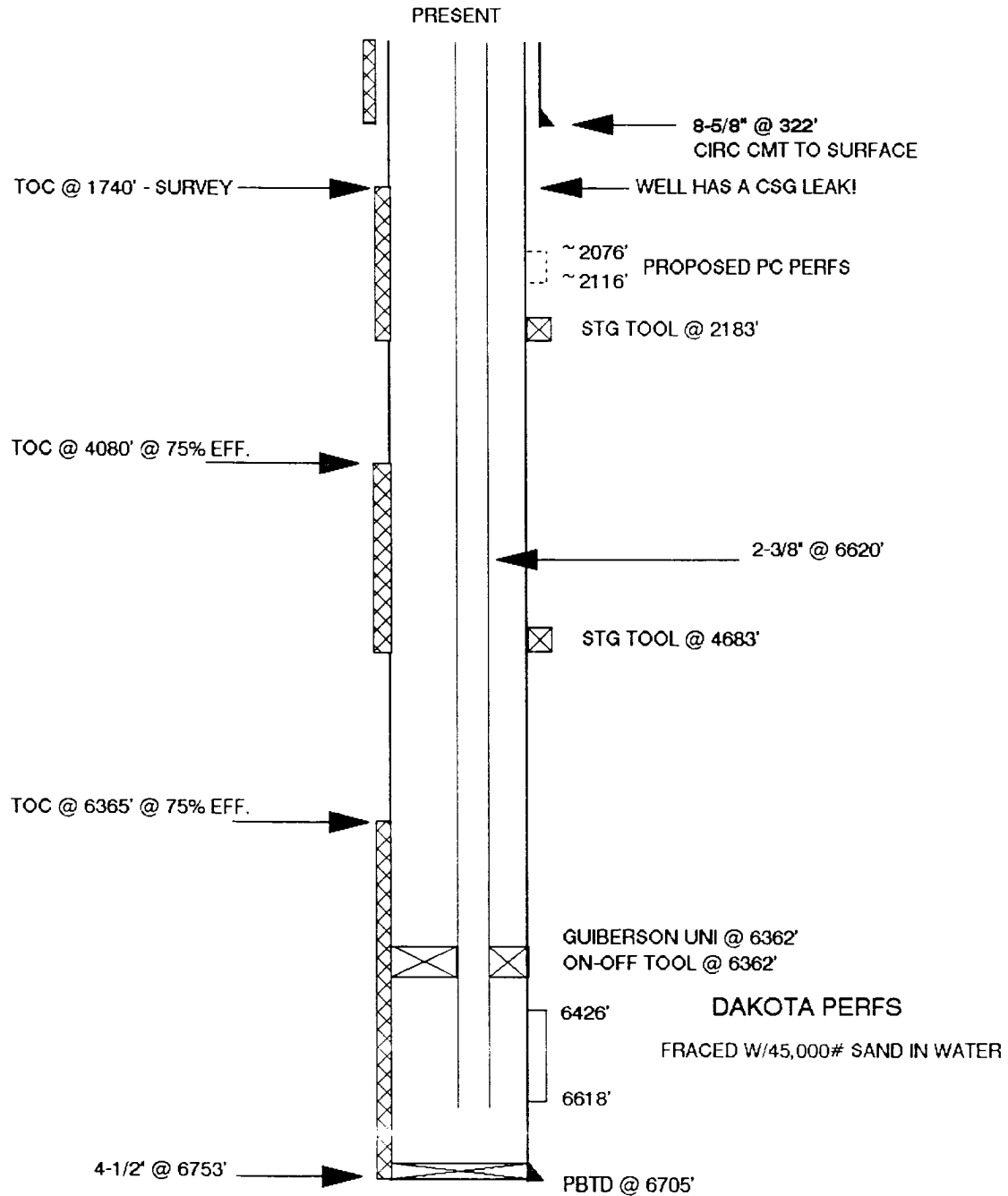
Workover History: 9/22/73: TOH w/tbg. TIH w/Guiberson pkr on 2-3/8" tbg. Bottom of pkr @ 6370' & top on-off tool @ 6362' w/8 jts tail pipe. This well has a csg leak.

Production history: DK 1st delivered 1967. Current DK capacity is 0 MCF/D. DK cum is 1205 MMCF. & 12,294 BO.

Pipeline: EPNG

HUERFANITO UNIT #103 PC

UNIT N SECTION 3 T26N R9W
SAN JUAN COUNTY, NEW MEXICO



HITO # 103
N 3 26 9

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8

2100 17

2200