

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'FSL, 990'FWL, Sec.29, T-31-N, R-8-W, NMPM

5. Lease Number
SF-078387

6. If Indian, All. or
Tribe Name

7. Unit Agreement Name

8. Well Name & Number
Howell D #2

9. API Well No.
30-045-10268

10. Field and Pool
Blanco Mesaverde

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 checked="" 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 plug and abandon the subject well according to the attached procedure and wellbore diagram.

RECEIVED
NOV 10 1994
OIL CON. DIV.
DIST. 3

NOV 10 1994
PM 2:49
OIL CON. DIV.
DIST. 3

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

Signed [Signature] (LD6) Title Regulatory Affairs Date 10/27/94

(This space for Federal or State Office use)

APPROVED BY _____ Title _____ Date _____
CONDITION OF APPROVAL, if any:

APPROVED
NOV 08 1994
DISTRICT MANAGER

PLUG AND ABANDONMENT PROCEDURE

Howell D #2 (MV)

Blanco Mesaverde DPNO 47929A

SW, Sec. 29, T31N, R8W

San Juan County, 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/or test rig anchors. Prepare blow pit. Comply to all NMOCD, BLM and Meridian safety rules and regulations.
2. MOL and RUSU. Blow well down; kill with water if necessary. ND wellhead and NU BOP and stripping head; test BOP.
3. POH and tally 2" tubing (163 joints, tubing at 5059'). Visually inspect tubing, if it has heavy scale or is in poor condition then LD and PU 2" work string. PU a 6-5/8" casing scraper and RIH to 5050'. Note, in April, 1993, a casing scraper only went to 4780'; attempt to work scraper through tight spot in 6-5/8" casing.
4. **Plug #1 (Mesaverde open hole interval, 5000' to 5244')**: PU 6-5/8" cement retainer and RIH; set at 5050', or as deep as possible; adjust cement volumes accordingly. Pressure test tubing to 1000#; establish rate into Mesaverde open hole interval. Mix and pump 92 sxs Class B cement, squeeze 83 sxs cement below cement retainer (sufficient to cover top of fish and 50' below Mesaverde top, 100% excess), then spot 9 sxs cement above retainer to 5000'. POH with setting tool. Pressure test casing to 500#.
5. **Plug #2 (Pictured Cliffs and Fruitland tops, 3434' to 3050')**: Perforate 4 squeeze holes at 3434'. Establish rate into squeeze holes if casing tested. PU 6-5/8" cement retainer and RIH; set at 3330'. Establish rate into squeeze holes. Mix and pump 189 sxs Class B cement, squeeze 116 sxs cement outside casing over Pictured Cliffs and Fruitland tops from 3434' to 3050' and leave 73 sxs cement inside casing. POH with tubing. Pressure test casing to 500#.
6. **Plug #3 (Kirtland and Ojo Alamo tops, 2520' to 2330')**: Perforate 4 squeeze holes at 2520'. Establish rate into holes if casing tested. PU 6-5/8" cement retainer and RIH; set at 2470'. Establish rate into squeeze holes. Mix and pump 98 sxs Class B cement, squeeze 57 sxs cement below retainer over Kirtland and Ojo Alamo tops from 2520' to 2330' and spot 41 sxs cement inside casing. POH and LD tubing. Pressure test casing.
7. **Plug #4 (Surface)**: Perforate 2 holes at 341'. Establish circulation out bradenhead valve. Mix and pump approximately 114 sxs Class B cement down the 6-5/8" casing, circulate good cement out bradenhead valve. Shut in well and WOC.
8. ND BOP and cut off well head below surface casing flange and install P&A marker with cement to BLM specs. RD and MOL. Cut off anchors.
9. Restore location per BLM stipulations.

PERTINENT DATA SHEET

10/26/94

WELLNAME: Howell D #2	DP NUMBER: 47929A																																
WELL TYPE: Blanco Mesaverde	ELEVATION: GL: 6545' KB:																																
LOCATION: 1650' FSL, 990' FWL Sec. 29, T31N, R8W San Juan County, New Mexico	INITIAL POTENTIAL: 6,000 MCF/D SICP:																																
OWNERSHIP: GWI: 100.0000% NRI: 83.5000%	DRILLING: SPUD DATE: 07-03-51 COMPLETED: 08-28-51 TOTAL DEPTH: 5755' PBTD: Open Hole																																
CASING RECORD: <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <thead> <tr> <th style="text-align: left;">HOLE SIZE</th> <th style="text-align: left;">SIZE</th> <th style="text-align: left;">WEIGHT</th> <th style="text-align: left;">GRADE</th> <th style="text-align: left;">DEPTH</th> <th style="text-align: left;">EQUIP.</th> <th style="text-align: left;">CEMENT</th> <th style="text-align: left;">TOC</th> </tr> </thead> <tbody> <tr> <td>12 1/4"</td> <td>9 5/8"</td> <td>36#</td> <td>J55</td> <td>291'</td> <td>-</td> <td>150 sx</td> <td>Surface</td> </tr> <tr> <td>8 3/4"</td> <td>6 5/8"</td> <td>20#</td> <td>J55</td> <td>5150'</td> <td></td> <td>300 sx</td> <td>TS 4100'</td> </tr> <tr> <td>Tubing</td> <td>2 3/8"</td> <td>4.7#</td> <td>J55</td> <td>5057'</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>		HOLE SIZE	SIZE	WEIGHT	GRADE	DEPTH	EQUIP.	CEMENT	TOC	12 1/4"	9 5/8"	36#	J55	291'	-	150 sx	Surface	8 3/4"	6 5/8"	20#	J55	5150'		300 sx	TS 4100'	Tubing	2 3/8"	4.7#	J55	5057'			
HOLE SIZE	SIZE	WEIGHT	GRADE	DEPTH	EQUIP.	CEMENT	TOC																										
12 1/4"	9 5/8"	36#	J55	291'	-	150 sx	Surface																										
8 3/4"	6 5/8"	20#	J55	5150'		300 sx	TS 4100'																										
Tubing	2 3/8"	4.7#	J55	5057'																													
FORMATION TOPS: <table style="width: 100%; margin-top: 5px;"> <tr> <td style="width: 40%;">Ojo Alamo</td> <td style="width: 20%;">2380'</td> <td style="width: 40%;">Point Lookout</td> <td style="width: 20%;">5642'</td> </tr> <tr> <td>Kirtland</td> <td>2470'</td> <td>Gallup</td> <td></td> </tr> <tr> <td>Fruitland</td> <td>3100'</td> <td>Graneros</td> <td></td> </tr> <tr> <td>Pictured Cliffs</td> <td>3384'</td> <td>Dakota</td> <td></td> </tr> <tr> <td>Lewis</td> <td>3439'</td> <td></td> <td></td> </tr> <tr> <td>Cliffhouse</td> <td>5194'</td> <td></td> <td></td> </tr> <tr> <td>Menefee</td> <td>5250'</td> <td></td> <td></td> </tr> </table>		Ojo Alamo	2380'	Point Lookout	5642'	Kirtland	2470'	Gallup		Fruitland	3100'	Graneros		Pictured Cliffs	3384'	Dakota		Lewis	3439'			Cliffhouse	5194'			Menefee	5250'						
Ojo Alamo	2380'	Point Lookout	5642'																														
Kirtland	2470'	Gallup																															
Fruitland	3100'	Graneros																															
Pictured Cliffs	3384'	Dakota																															
Lewis	3439'																																
Cliffhouse	5194'																																
Menefee	5250'																																
LOGGING: ES, L-W GR, TS																																	
PERFORATIONS None -- Open Hole																																	
STIMULATION: 5205' -- 5755' shot 1200 qts. SNG																																	
WORKOVER HISTORY: <p style="margin-top: 10px;">Apr-93 Bradenhead test indicated casing failure. Attempted to pull tubing, parted @ 2270, cut tubing @ 5105'. POH with tubing. Casing scrapper would not go below 4780'. Pressure tested to 700#, tested OK. Ran 2 3/8" tubing and landed @ 5057'.</p>																																	
<table style="width: 100%; margin-top: 10px;"> <tr> <td style="width: 20%;">PRODUCTION HISTORY:</td> <td style="width: 10%;"><u>Gas</u></td> <td style="width: 10%;"><u>Oil</u></td> <td style="width: 20%;">DATE OF LAST PRODUCTION:</td> <td style="width: 10%;"><u>Gas</u></td> <td style="width: 10%;"><u>Oil</u></td> </tr> <tr> <td>Cumulative as of 1994:</td> <td>8.2 Bcf</td> <td>28.4 MBbl</td> <td>September, 1992</td> <td>8 Mcf</td> <td>0 Bbl</td> </tr> <tr> <td>Current:</td> <td>0 Mcf</td> <td>0 Bbl</td> <td></td> <td></td> <td></td> </tr> </table>		PRODUCTION HISTORY:	<u>Gas</u>	<u>Oil</u>	DATE OF LAST PRODUCTION:	<u>Gas</u>	<u>Oil</u>	Cumulative as of 1994:	8.2 Bcf	28.4 MBbl	September, 1992	8 Mcf	0 Bbl	Current:	0 Mcf	0 Bbl																	
PRODUCTION HISTORY:	<u>Gas</u>	<u>Oil</u>	DATE OF LAST PRODUCTION:	<u>Gas</u>	<u>Oil</u>																												
Cumulative as of 1994:	8.2 Bcf	28.4 MBbl	September, 1992	8 Mcf	0 Bbl																												
Current:	0 Mcf	0 Bbl																															
PIPELINE: EPNG																																	

Howell D #2

Current

Blanco Mesaverde DPNO 47929A

SW, Section 29, T-31-N, R-8-W
San Juan County, NM

Today's Date: 10/24/94

Spud: 7-3-51

Completed: 8-28-51

Assumed
12-1/4" hole

9-5/8" 36#, Csg set @ 291,
Cmt w/150 sxs (Circulated to
Surface)

Ojo Alamo @ 2380'

Kirtland @ 2470'

Fruitland @ 3100'

Pictured Cliffs @ 3384'

2-3/8" 4.7# J-55 tubing set at 5057'
(163 joints)

Top of Cmt @ 4100 (T.S.)

6-5/8" 20#, Csg set @ 5150'
Cmt w/300 sxs

Mesaverde @ 5194'

Workover April, 1993 - Cut 2" tubing at 5105';
Casing scraper would not go below 4780';
Landed 2" tubing at 5057'.

5-5/8" hole

Open Hole - 5150' - 5755' Shot with
1200 quarts solidified Nitro-glycerin.

TD 5755'

Howell D #2
Proposed P & A

Blanco Mesaverde DPNO 47929A

SW, Section 29, T-31-N, R-8-W
San Juan County, NM

Today's Date: 10/24/94

Spud: 7-3-51

Completed: 8-28-51

Assumed
12-1/4" hole

Ojo Alamo @ 2380'

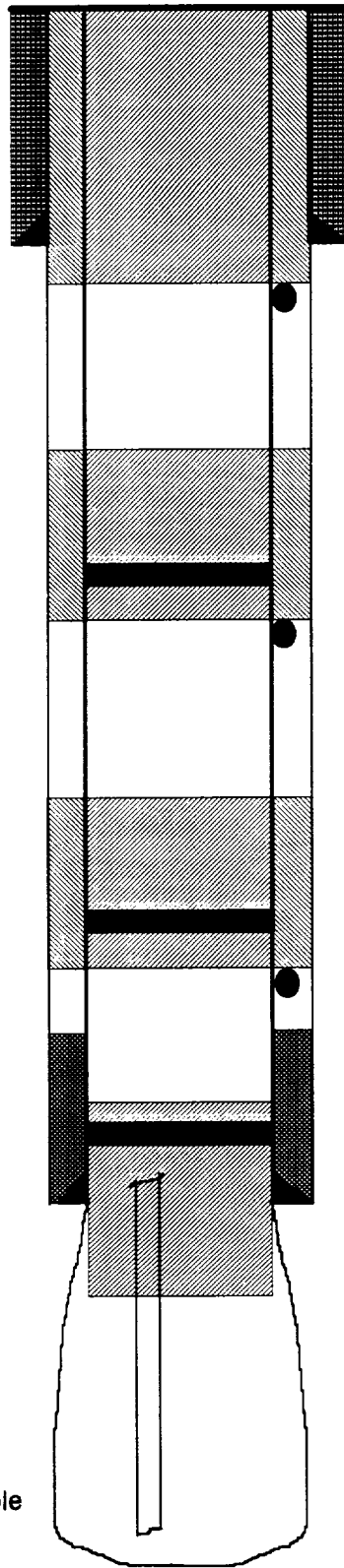
Kirtland @ 2470'

Fruitland @ 3100'

Pictured Cliffs @ 3384'

Mesaverde @ 5194'

5-5/8" hole



9-5/8" 36#, Csg set @ 291,
Cmt w/150 sxs (Circulated to
Surface)

Plug #4 341' - Surface'
114 sxs cement

Perforate @ 341'

Plug #3 2520' - 2330'
41 sxs Inside
57 sxs outside

Cement Retainer @ 2470'

Perforate @ 2520'

Plug #2 3434' - 3050'
73 sxs Inside
116 sxs outside

Cement Retainer @ 3330'

Perforate @ 3434'

Top of Cmt @ 4100 (T.S.)

Plug #1 5244' - 5000'
83 sxs below CR
9 sxs above CR
Cement Retainer @ 5050'

6-5/8" 20#, Csg set @ 5150'
Cmt w/300 sxs

Workover April, 1993 - Cut 2" tubing at 5105';
Casing scraper would not go below 4780';
Landed 2" tubing at 5057'.

Open Hole - 5150' - 5755' Shot with
1200 quarts solidified Nitro-glycerin.

TD 5755'

UNITED STATES DEPARTMENT OF THE INTERIOR

**BUREAU OF LAND MANAGEMENT
FARMINGTON DISTRICT OFFICE**

1235 La Plata Highway
Farmington, New Mexico 87401

Attachment to Notice of

Re: Permanent Abandonment

Intention to Abandon

Well: **2 Howell D**

CONDITIONS OF APPROVAL

1. Plugging operations authorized are subject to the attached "General Requirements for Permanent Abandonment of Wells on Federal and Indian Leases."
2. **Mike Flaniken** with the Farmington Office is to be notified at least 24 hours before the plugging operations commence (505) 599-8907.
3. The following modifications to your plugging program are to be made (when applicable):
 1. Extend Pictured Cliffs and Fruitland cement plug from 3434' to 3014'. (top of Fruitland @ 3064')
 2. Move Ojo Alamo cement plug. Perforate at 2319' and place a cement plug from 2319' to 2140' inside and outside the casing plus 100 % excess cement in the annulus and 50 linear feet excess inside the casing. (top of Kirtland @ 2269', Top of Ojo Alamo @ 2190')
 3. Perforate at 1032' and place a cement plug from 1032' to 932' inside and outside the casing plus 100% excess cement outside the casing and 50 linear excess inside the casing. (top of Nacimiento at 982')