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

5. **Lease Number**
SF-078385A

6. **If Indian, All. or Tribe Name**

7. **Unit Agreement Name**

2. **Name of Operator**
MERIDIAN OIL

8. **Well Name & Number**
Howell L #4

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

9. **API Well No.**
30-045-09009

4. **Location of Well, Footage, Sec., T, R, M**
1650'FNL, 1650'FEL, Sec.34, T-30-N, R-8-W, NMPM

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**	
_X_ Notice of Intent	_X_ Abandonment	___ Change of Plans
	___ Recompletion	___ New Construction
___ Subsequent Report	___ Plugging Back	___ Non-Routine Fracturing
	___ Casing Repair	___ Water Shut off
___ Final Abandonment	___ Altering Casing	___ Conversion to Injection
	___ Other -	

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
MAY 1 3 1996
OIL CON. DIV.
DIST. 3

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

Signed Peggy Bradfield (VGW5) Title Regulatory Administrator Date 5/1/96

(This space for Federal or State Office use)
APPROVED BY _____ Title _____ Date _____
CONDITION OF APPROVAL, if any:

APPROVED
MAY 08 1996
DISTRICT MANAGER

NMOCD

MESAVERDE PLUG & ABANDONMENT PROCEDURE

4-30-96

Howell L #4
Blanco Mesaverde
NE Section 34, T-30-N, R-08-W
San Juan Co., NM

Note: All cement volumes use 100% excess outside pipe and 50' excess inside. 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 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 and NU BOP, test.

2. Load casing with water and establish circulation to surface; establish rate into casing leak, observe bradenhead for flow or blow. Set plug or standing valve in seating nipple and pressure test tubing to 2000#. POH and tally 2-3/8" EUE tubing (143 joints at 4458'), visually inspect. If necessary, replace bad joints or PU 2" workstring.

3. ND BOP and remove tubing head ("casing spool" has restricted ID; from 1-14-96 Daily Workover Report). Install tubing head with adequate ID. PU and round-trip 7" casing scraper or gauge ring to 4480'.

4. **Plug #1 (Mesaverde, 4480' - 4380'):** RIH with open ended tubing to 4480' and tag bridge plug. Mix 29 sxs Class B cement and spot a balanced plug inside casing above the bridge plug from 4480' to 4380'. POH with tubing.

5. PU 7" packer and RIH; isolate casing leak(s) interval. Maybe be necessary to pick up 7" retrievable bridge plug to determine extent and location of multiple casing leaks.

6. If unable to circulate to surface and casing leak(s) are below 2527', then if possible combine a squeeze repair of the casing leak(s) and the cementing of the PC and Fruitland. Mix sufficient Class B cement to cover from casing leak to above Fruitland top at 2527' with a 100% excess. If casing leak(s) are above 2500' then plug well as follows:

7. **Plug #2 (Pictured Cliffs and Fruitland [outside], 3180' - 2527'):** Perforate 3 HSC squeeze holes at 3180'. PU 7" cement retainer and RIH; set at 3150'. Establish rate into squeeze holes; attempt to circulate to surface, with and without the casing valve shut. May be necessary to perforate 3 HSC squeeze holes at 2527' and block squeeze PC/Ft annulus. Mix 176 sxs Class B cement, squeeze 166 sxs cement outside 7" casing from 3180' to 2527' and leave 10 sxs cement below the retainer. POH.

8. **Plug #3 (Casing Leak Repair):** If casing leak is above 2527', then attempt to circulate to surface.
If able to circulate, set a packer 150' above leak; then mix and pump cement until good cement circulates out bradenhead valve, displace to within 50' of casing leak.
If unable to circulate to surface then repair leak by hesitation squeeze cementing under a packer. POH and LD tubing and packer. Pressure test casing to 500#.

9. Pressure test casing again after providing the BLM with notice to do a mechanical integrity test.

10. ND BOP and NU wellhead. RD, Move off location, do not cut off anchors; clean up location.

Recommended: _____
Operations Engineer

Approval: _____
Production Superintendent

Howell L #4

Current

Blanco Mesaverde

NE Section 34, T-30-N, R-8-W, San Juan County, NM

Lat./Long.: _____/ _____

Today's Date: 4/30/96
Spud: 11/29/51
Completed: 3/26/52
Elevation: 6147' (GL)
Logs: IEL, Temp. Survey

Nacimiento @ 725'

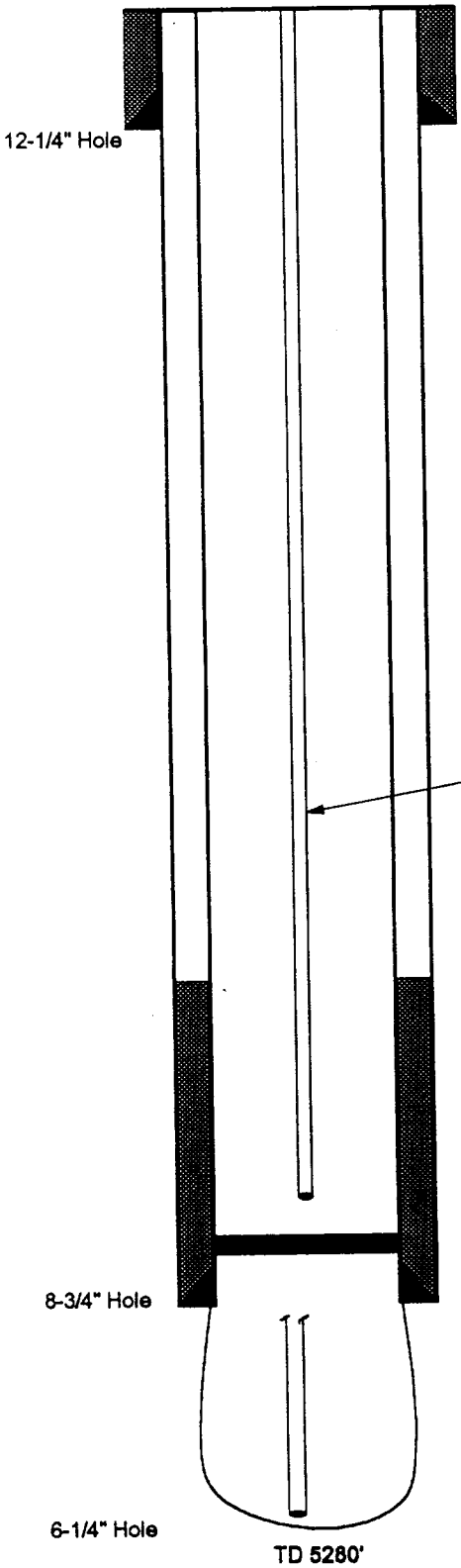
Ojo Alamo @ 1782'

Kirtland @ 1982'

Fruitland @ 2577'

Pictured Cliffs @ 2906'

Mesaverde @ 4612'



9-5/8" 36# Casing set at 278' '
Cmt w/150 sxs (Circulated to Surface)

Workover History

Jan '96: Casing leak; cut stuck tubing; set CIBP to protect MV; land tubing.

143 joints 2-3/8" Tubing at 4458'

TOC @ 3550' (T.S.)

CIBP set at 4480' (Jan '96)

7" 20# J-55 Casing set at 4510'
Cemented with 300 sxs

2-3/8" Tubing jet cut at 4610' (Jan '96)

Open Hole Interval: 4510' - 5280'

Howell L #4

Proposed P & A

Blanco Mesaverde

NE Section 34, T-30-N, R-8-W, San Juan County, NM

Lat./Long.: _____/ _____

Today's Date: 4/30/96

Spud: 11/29/51

Completed: 3/26/52

Elevation: 6147' (GL)

Logs: IEL, Temp. Survey

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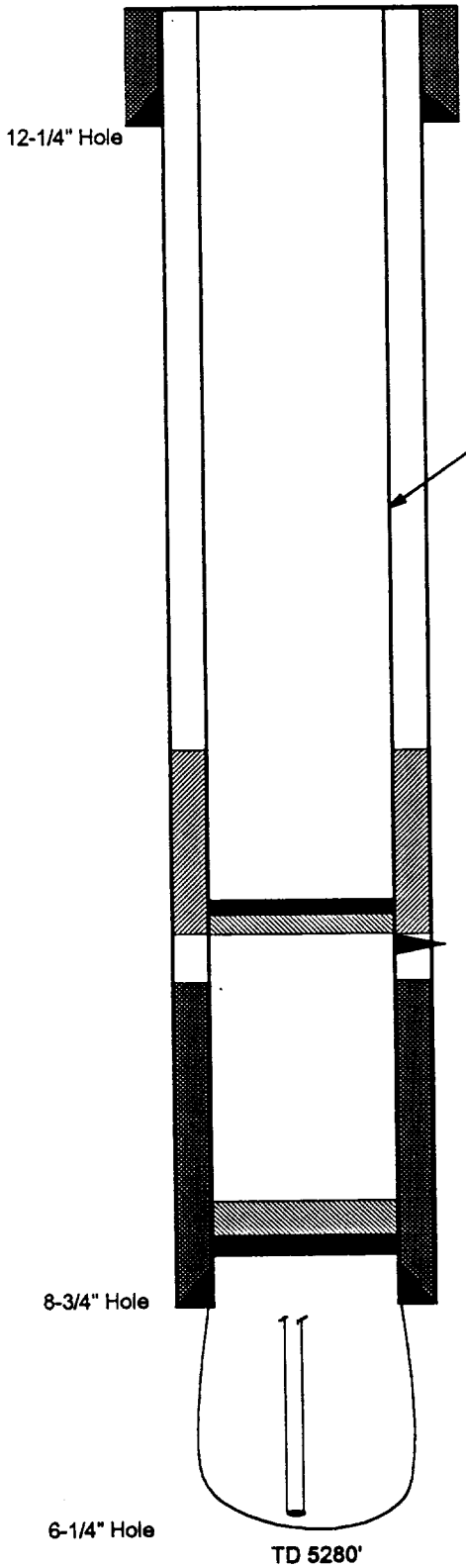

9-5/8" 36# Casing set at 278' '
Cmt w/150 sxs (Circulated to Surface)

Casing Repair

Isolate casing leak with packer before Plug #2; then squeeze casing leak with cement to surface if possible.

Plug #2 3180' - 2527'
Cement with 176 sxs Class B squeeze 166 sxs outside casing and 10 sxs inside.

Cement Rt @ 3150'

Perforate @ 3180'

TOC @ 3550' (T.S.)

Plug #1 4480' - 4380'
Cement with 29 sxs Class B above CIBP.

CIBP set at 4480' (Jan '96)

7" 20# J-55 Casing set at 4510'
Cemented with 300 sxs

2-3/8" Tubing jet cut at 4610' (Jan '96)

Open Hole Interval: 4510' - 5280'