

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

1850' FNL, 1580' FEL, Sec.4, T-29-N, R-10-W, NMPM

5. Lease Number
NM-03561

6. If Indian, All. or
Tribe Name

7. Unit Agreement Name

8. Well Name & Number
Grenier B #4

9. API Well No.
30-045-08772

10. Field and Pool
Blanco MV/Basin DK

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

13. Describe Proposed or Completed Operations

It is intended to open and stimulate additional pay in the Mesaverde formation of the subject well according to the attached procedure.

RECEIVED
JAN 12 1996

OIL CON. DIV.
BOX 3

RECEIVED
JAN 12 1996
OIL CON. DIV.
BOX 3

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

Signed *Regan Stashfield* (PMP1) Title Regulatory Administrator Date 1/4/96

(This space for Federal or State Office use)

APPROVED BY _____ Title _____ Date _____

CONDITION OF APPROVAL, if any:

APPROVED

JAN 08 1996

Sharon Spem
f- DISTRICT MANAGER

NMOCD

Pertinent Data Sheet - Grenier B #4

Location: 1850' FNL & 1580' FEL, Unit G, Section 4, T29N, R10W, San Juan County, New Mexico

Field: Blanco Mesaverde &
Basin Dakota

Elevation: 5931' GR

TD: 6985'

PBTD: 6960'

Completed: 4/26/62

Spud Date: 4/9/62

DP #: (Basin Dakota) 25663
(Mesaverde) 25669

Casing Record:

<u>Hole Size</u>	<u>Csg Size</u>	<u>Wt. & Grade</u>	<u>Depth Set</u>	<u>Cement (Top)</u>
12-1/4"	8-5/8"	24.0#	319'	225 sx. (surface)
7-7/8'	4-1/2"	9.5# & 11.6#	6985'	825 sx. (2 stages)

Cement:

Surface: Unknown

1st stage:

Unknown

2nd Stage:

Unknown

Stage Collar @ 4888'

Tubing Record:

<u>Tbg. Size</u>	<u>Wt. & Grade</u>	<u>Depth Set</u>
2-3/8"	4.70# J-55 EUE	6770'

Formation Tops:

Pictured Cliffs:	2363'	Greenhorn:	6600'
Cliff House:	3931'	Graneros:	6658'
Point Lookout:	4660'	Dakota:	6780'
Gallup:	5870'		

Logging Record: Bond Log & Gamma Ray

Stimulation: Sand-water Frac'd 6782'-6940' w/ 25,000# sand, 2010 Bbls. water, flushed with 140 Bbls.

Workover History: 4/17/73 Perf'd 4650'-4720' Frac'd w/ 1156 Bbls. water and 25,000# 20/40 sand and 20,000# 10/20 sand.

Set Model "D" Baker Production Packer @ 6770'

4/17/73 Ran 2-3/8" Tbg Landed @ 6770'

4-17-73 *Drilled out BP @ 6550'. Cleaned out to 6970'. Tripped tubing. Set Model "D" Baker Production Packer @ 6770'. Ran "F" nipple, one joint 2-3/8" tubing sliding sleeve, 60 joints 2-3/8" tubing, two 10' subs, two 24' blast joints, 139 joints 2-3/8" tubing, two 8' subs, one 4' sub, one joint 2-3/8" tubing. Total 201 joints. Landed 7000# on packer. "F" nipple @ 6768'. Sliding sleeve @ 6737'. Rigged down.

GRENIER B #4
Recommend Recompletion Procedure
SW/NE Section 4 T29N R10W
Lat. 36.756317 Long. 107.885773

1. Test rig anchors and repair if necessary. Install 8-400 bbl frac tanks on location and fill with 1% KCl water for fracture treatment. Filter all water to 25 microns. Heat water as required by weather.
2. MOL and RU. Comply to all NMOCD, BLM and MOI rules and regulations. Hold safety meeting. ND wellhead. NU BOP. Test operation of rams. NU two relief lines.
3. TOOH with 6770' of 2-3/8" tubing, blast joints and seal assembly. The Baker #2419 Model 'D' Packer which has a locator seal and can be released by pulling straight up. Check wellbore diagram for configuration. Visually inspect for and replace all bad joints.
4. TIH with 2-3/8" work string, mill and packer plucker. Mill slips and TOOH with packer.
5. TIH with 2-3/8" tubing with 4-1/2" casing scraper and 3-7/8" bit. Clean out 4-1/2" from surface to PBTB at 6960' with air.
6. Blow to pit until sand production is minimal to absent. When well is clean, take 15, 30, 45 and 60 minute pitot gauges. TOOH.
7. Wireline set 4-1/2" RBP at 4630'. Load hole with 1% KCl water.
8. RU wireline and run CNL/CBL/CCL/GR from 4630' to 2630' under 1000 psi surface pressure.
9. TIH with 4-1/2" full-bore packer and 60' of 2-3/8" tubing and pressure test casing to 3800 psi. If pressure test does not hold, TIH with packer and tubing and locate casing failure. Contact Production Engineering and a casing repair procedure will be provided. Release packer and TOOH.

*****Lower Menefee*****

10. Perforate with 3-1/8" Conventional HSC with centralizers and charges meeting requirements for average penetration in Berea of 12.0" and average perf diameter of 0.32". Perforate the following Lower Menefee intervals with 1 spf. Perforate from the top down using centralizers.

4412' - 4417'	(5)	4476' - 4483'	(7)
4454' - 4460'	(6)	4586' - 4595'	(9)

Total: 27 holes.

11. TIH with 4-1/2" full bore packer on 2-7/8" tubing and set at 60' only if casing tested. If casing squeeze was required, TIH to below squeeze hole with 4-1/2" packer and 2-3/8" tubing. RU stimulation company and prepare to breakdown and balloff with acid. Pump 675 gal. of 15% HCl at 16 bbls/min and slow rate down to 10 bbls/min prior to ball hitting. Drop a total of 40 7/8" 1.3 sp. gr. RCN ball sealers spaced evenly throughout the job. Record injection rate and all breakdown pressures throughout job. **Maximum pressure is 3800 psi.** Acid should contain clay stabilizer, corrosion inhibitor, and iron sequestering agent. TOOH with tubing and packer.

GRENIER B #4
Recommend Recompletion Procedure
SW/NE Section 4 T29N R10W
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12. RU wireline. RIH with junk basket and retrieve ball sealers. Record number of hits and balls recovered.
13. TIH with 4-1/2" full-bore packer on 2-7/8" tubing and set at 60' only if casing tested. If casing squeeze was required, TIH to below squeeze hole with 4-1/2" packer and 3-1/2" frac string. RU stimulation company. Hold safety meeting. Pressure test surface lines to 4800 psi (1000 psi over maximum allowable treating pressure but no greater than working pressure of surface lines). **Maximum treating pressure is 3800 psi.** Fracture Lower Menefee according to attached procedure. **Stimulation will be with slickwater and 54,000 lbs. of 20/40 Arizona sand with maximum sand concentration of 2.5 ppg, a rate of 40 bbls/min and 25% pad volume (Fracure stimulate interval according to the attached schedule).** Flush to the top perf. Shut-in well immediately after stimulating well to keep in static condition. Release packer and TOOH.
14. Wireline set 4-1/2" RBP at 4400'. TIH with 4-1/2" full-bore packer on 2-7/8" tubing and set at 60'. Test bridge plug and casing to 3800 psi for 15 minutes. Release packer and TOOH. Run dump bailer and dump 2 sxs sand on of the RBP.

*****Upper Menefee*****

15. Perforate with 3-1/8" Conventional HSC with centralizers and charges meeting requirements for average penetration in Berea of 12.0" and average perf diameter of 0.32". Perf the following Upper Menefee intervals with 1 spf. Perforate from the top down using centralizers.

4094' - 4104'	(10)	4252' - 4257'	(5)
4109' - 4118'	(9)	4330' - 4337'	(7)
4185' - 4192'	(7)	4359' - 4367'	(8)
4228' - 4233'	(5)		

Total: 51 holes.

16. TIH with 4-1/2" full bore packer on 2-7/8" tubing and set at 60' only if casing tested. If casing squeeze was required, TIH to below squeeze hole with 4-1/2" packer and 2-3/8" tubing. RU stimulation company and prepare to breakdown and balloff with acid. Pump 1275 gal. of 15% HCl at 30 bbls/min and slow rate down to 10 bbls/min prior to ball hitting. Drop a total of 75 7/8" 1.3 sp. gr. RCN ball sealers spaced evenly throughout the job. Record injection rate and all breakdown pressures throughout job. **Maximum pressure is 3800 psi.** Acid should contain clay stabilizer, corrosion inhibitor, and iron sequestering agent. Release packer and TOOH.
17. RU wireline. RIH with junk basket and retrieve ball sealers. Record number of hits and balls recovered.
18. TIH with 4-1/2" full-bore packer on 2-7/8" tubing and set at 60' only if casing tested. If casing squeeze was required, TIH to below squeeze hole with 4-1/2" packer and 3-1/2" frac string. RU stimulation company. Hold safety meeting. Pressure test surface lines to 4800 psi (1000 psi over maximum allowable treating pressure but no greater than working pressure of surface lines). **Maximum treating pressure is 3800 psi.** Fracture Upper Menefee according to attached procedure.

GRENIER B #4
Recommend Recompletion Procedure
SW/NE Section 4 T29N R10W
Page 3

Stimulation will be with slickwater and 102,000 lbs. of 20/40 Arizona sand with maximum sand concentration of 2.5 ppg, a rate of 70 bbls/min and 25% pad volume (Fracure stimulate interval according to the attached schedule). Flush to the top perf. Release packer and TOOH.

19. Flow back well (if needed) until returns diminish. TIH with retrieving head and 2-3/8" tubing and clean out to RBP at 4400' until sand returns and water production are minimal. Obtain pitot gauges. Release bridge plug and TOOH.
20. Flow back well (if needed) until returns diminish. TIH with retrieving head and 2-3/8" tubing and clean out to RBP at 4630' until sand returns and water production are minimal. Obtain pitot gauges. Release bridge plug and TOOH.
21. TIH with notched collar on 2-3/8" tubing and clean out to PBTB at 6960' until sand returns and water production are minimal. Obtain pitot gauges. TOOH.
22. TIH with 6910' of 2-3/8" tubing with standard seating nipple and one joint with expendable check on bottom. Land tubing string.
23. ND BOP and NU independent wellhead. Pump off plug. Take final Pitot gauge and gas, oil and water samples.
24. Rig down and release rig.

Approve: _____
Team Leader

Approve: _____
Drilling Superintendent

VENDORS:

Wireline:	To Be Determined at a Later Date	
Fracturing:		
Production Engineer:	Office	326-9703
	Home	326-2381

LJB:ljb