

submitted in lieu of Form 3160-5

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED
804 MAIL ROOM

Sundry Notices and Reports on Wells-5 PM 12:25

070 FARMINGTON, NM

Lease Number
NM-0607

1. Type of Well
GAS

6. If Indian, All. or
Tribe Name

7. Unit Agreement Name

2. Name of Operator
MERIDIAN OIL

8. Well Name & Number
Atlantic C #6

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

9. API Well No.
30-045-09854

4. Location of Well, Footage, Sec., T, R, M
1552' FSL, 933' FWL, Sec. 6, T-30-N, R-10-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

<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 - Pay add	

13. Describe Proposed or Completed Operations

It is intended to add pay the producing Mesaverde formation of the subject well according to the attached procedure and wellbore diagram.

RECEIVED
DEC 11 1995

OIL COLL. DIV.
DIST. 8

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

Signed [Signature] (MEL5) Title Regulatory Administrator Date 12/4/95

(This space for Federal or State Office use)

APPROVED BY _____ Title _____ Date _____

CONDITION OF APPROVAL, if any:

APPROVED

DEC 05 1995

DISTRICT MANAGER

NMOCD

Pertinent Data Sheet - Atlantic C #6

Location: 1552' FSL, 933' FWL, Unit L, Section 06, T30N, R10W, San Juan County, New Mexico

Field: Blanco Mesaverde

Elevation: 6060' GL

TD: 5432'
PBTD: 5415'

Completed: 04-04-55

Prop #: 012601500

DP #: 49119A

Sidetrack: 10-13-80

Casing Record:

<u>Hole Size</u>	<u>Csg Size</u>	<u>Wt. & Grade</u>	<u>Depth Set</u>	<u>Cement</u>	<u>Top/Cement</u>
13 3/4"	9 5/8"	25.4# SW	171'	125 sxs Surface/Circ	
8 3/4"	7"	20&23# J-55	4860'	500 sxs TOC @ 2195' TS	
6 1/4"	4 1/2"	10.5# K-55	5432'	246 cu ft	TOC @ 3300' TS

Tubing Record:

<u>Tbg Size</u>	<u>Wt. & Grade</u>	<u>Depth Set</u>	
2 3/8"	4.7# J-55	5358'	SN @ 5326'

Formation Tops:

Ojo Alamo:	1260'	Chacra:	3463'
Kirtland:	1370'	Cliff House:	4190'
Fruitland:	2356'	Menefee:	4450'
Pictured Cliffs:	2660'	Point Lookout:	4955'
Huer. Bentonite:	3396'		

Logging Record: Temp Survey, Comp Density, Induction

Stimulation:

Frac'd: w/15,000# sand & 15,000 gal oil. Flush w/1,800 gal water.
Perf'd: 4860' to 5040'

Workover History:

09/80: Pulled tbg. Set retainer @ 4708'. Shot sqz hole @ 1350'. Set retainer @ 1184'. Sqz O.A. w/148 cu. ft cmt. Sidetracked well from 4875' to 4893'. Drilled from 4893' to 4918'. Drilled to 5437'. Ran 4 1/2" 10.5# K-55 prod csg. Set @ 5432'. Float collar set @ 5414'. Cmt w/246 cu. ft. cmt. TOC @ 3300'.
Perf'd: 4960', 4965', 4971', 4977', 4993', 4999', 5005', 5011', 5017', 5023', 5029', 5055', 5061', 5081', 5138', 5151', 5173', 5212', 5248', 5312', 5370' w/1 SPZ.
Frac'd: w/38,000# 20/40 sand & 108,738 gal water. Flush w/3,318 gal water.
Ran 2 3/8" 4.7# J-55 tbg. Set @ 5326' SN @ 5326.

Transporter: EPNG

ATLANTIC C #6

SW/4, SEC 6, T30N, R10W, SAN JUAN COUNTY, NM
AS OF 1/01/95
BLANCO MESAVERDE

COMPLETED 4/04/55
SIDETRACKED 10/13/80

9-5/8" 25.4# SW CSG SET @ 171'
CMT W/125 SX
CIRC. CEMENT TO SURFACE

2-3/8" 4.7# J-55 TBG SET @ 5358'
SEATING NIPPLE @ 5326'

OJO ALAMO @ 1260'

SQ @ 1350' W/125 SX CMT

KIRTLAND @ 1370'

TOC @ 2195' (TEMP. SURVEY)

FRUITLAND @ 2356'

PICTURED CLIFFS @ 2660'

TOC @ 3300' (TEMP. SURVEY)

HUER. BENTONITE @ 3396'
CHACRA @ 3463'

CLIFF HOUSE @ 4190'
MENEFEE @ 4450'

7" 20# & 23# J-55 CSG SET @ 4860'
CMT W/500 SX

PT. LOOKOUT @ 4955'

PERF 4960'-5370'
FRAC WITH 108,738 GAL
WATER & 38,000# SAND

4-1/2" 10.5# K-55 CSG SET @ 5432'
CMT W/140 SX

TD 5432'
PBD 5415'

Atlantic C #6 - Mesaverde
Cliffhouse and Menefee Payadd
Lat-Long by TDG: 36.837769 - 107.929596
SW/4 Section 06, T30N-R10W
August 24, 1995

1. Hold safety meeting. MIRU. Comply with all MOI, BLM and NMOCD rules and regulations. Install 13 frac tanks and 1x400 bbl rig tank. Fill each frac tank with 5#s of biocide and filtered (25 micron) 1% KCl water.
2. Obtain and record all wellhead pressures. ND WH. NU BOP. TOO H w/ 2-3/8" tubing set at 5358'. Replace bad tubing as necessary.
3. TIH with 2-3/8" tubing, 4-1/2" (10.5#) casing scraper and 3-7/8" bit. CO to PBTD of 5415'. TOO H.
4. TIH w/ 4-1/2" CIBP and set CIBP @ 4930'. Load hole w/ 1% KCL water and pressure test to 1000 psi. Spot Menefee interval ($\pm 4530'$ - $\pm 4750'$) w/ 270 gallons of inhibited 15% HCL acid. TOO H.
5. RU wireline and run CBL-GR-CCL from $\pm 4925'$ to TOC under 1000 psi surface pressure. Run CNL from 4925' to 4100'. Send copy of logs to engineering and perforation intervals will be provided. TIH w/ 4-1/2" fullbore packer and two joints of 2-7/8" N-80 frac string. Set packer and pressure test casing and CIBP to 3800 psi. Release packer and TOO H standing back frac string.
6. Perforate the Menefee interval ($\pm 4530'$ - $\pm 4750'$) top down using 3-1/8" HSC guns with 12 gram GOEX charges (0.26" and .22" diameter holes through 4-1/2" and 7" respectively). (Perforation intervals will be provided after reviewing logs.) Inspect guns to ensure all perforations fired. RD wireline.
7. TIH w/ 4-1/2" fullbore packer and two joints of 2-7/8" N-80 frac string. Set packer.
8. **Maximum allowable treating pressure is 3800 psi during acid job.** Pump 1500 gallons of 15% HCL acid @ maximum rate pressure will allow dropping 7/8" diameter RCN ball sealers spaced evenly throughout the job (2 balls per perforation hole). Release packer and TOO H standing back frac string.
9. RU wireline, run 4-1/2" junk basket and knock balls off perforations.
10. TIH w/ 4-1/2" fullbore packer and two joints of 2-7/8" N-80 frac string. Set packer.
11. **Hold safety meeting. Maximum allowable surface treating pressure is 3800 psi.**
12. Pressure test surface lines to 4800 psi. (1000 psi over maximum treating pressure but less than the working pressure of the lines.) Fracture stimulate the Menefee interval @ 30 BPM using 30# linear gel and 80m lbs of sand tagging w/ Iridium. (Final stimulation procedure will be attached after reviewing logs.) Do not over displace during flush. Shut in well immediately after completion of the stimulation until pressure falls to zero.
13. Release packer and TOO H standing back frac string. Check and inspect packer. RU wireline and set a 4-1/2" RBP @ $\pm 4500'$. Load hole w/ 1% KCL water and pressure test RBP to 3800 psi. Dump sand on top of RBP w/ dump bailer.
14. Perforate Cliffhouse interval ($\pm 4200'$ - $\pm 4470'$) using 3-1/8" HSC guns with 12 gram GOEX charges (0.26" and .22" diameter holes through 4-1/2" and 7" respectively). (Perforation intervals will be provided after reviewing logs.) Inspect guns to ensure all perforations fired. RD wireline.
15. TIH w/ 4-1/2" fullbore packer and two joints of 2-7/8" N-80 frac string. Set packer.

Atlantic C#6
Mesaverde Payadd
August 24, 1995

16. **Maximum allowable treating pressure is 3800 psi during acid job.** Pump 1500 gallons of 15% HCL acid @ maximum rate pressure will allow dropping 7/8" diameter RCN ball sealers spaced evenly throughout the job (2 balls per perforation hole). Release packer and TOOH standing back frac string.
17. RU wireline, retrieve balls w/ 4-1/2" junk basket and report number of hits.
18. TIH w/ 4-1/2" fullbore packer and two joints of 2-7/8" N-80 frac string. Set packer.
19. **Hold safety meeting. Maximum allowable surface treating pressure is 3800 psi.**
20. Pressure test surface lines to 4800 psi. (1000 psi over maximum treating pressure but less than the working pressure of the lines.) Fracture stimulate the Cliffhouse interval @ 30 BPM using 30# linear gel and 105m lbs of sand tagging w/ Iridium. (Final stimulation procedure will be attached after reviewing logs.) Do not over displace during flush. Shut in well immediately after completion of the stimulation until pressure falls to zero.
21. Release packer and TOOH laying down frac string.
22. TIH w/ retrieving head and CO to RBP @ $\pm 4500'$ until sand production is minimal. Obtain pitot gauge for Cliffhouse interval. Release RBP @ 4500' and TOOH.
23. TIH w/ 3-7/8" bit and drill up CIBP set @ 4930'. CO to PBD (5415'). PU above the Mesaverde perforations and flow the well naturally, making short trips for clean up when necessary. Obtain pitot gauge for Mesaverde after clean up.
24. When sand has diminished, TOOH.
25. RU wireline company. Run After Frac GR from 5370' to top of tracer activity. RD wireline.
26. TIH with one joint of 2-3/8", 4.7#, J-55 tubing w/ expendable check, an F-nipple, then the remaining 2-3/8" production tubing. CO to PBD ($\pm 5415'$). Land tubing near bottom perforation (5370').
27. ND BOP's, NU WH. Pump off expendable check. Obtain final pitot. RD and MOL. Return well to production.

Approval:

Drilling Superintendent

Approval:

Donald P. Zick 9-28-95
Northwest Basin Team Leader