

submitted in lieu of Form 3160-5

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED
BLM

Sundry Notices and Reports on Wells

NOV -5 PM 1:55

1. Type of Well
GAS

070 FARMINGTON, NM

5. Lease Number
NM-04209

6. If Indian, All. or
Tribe Name

2. Name of Operator

**BURLINGTON
RESOURCES**

OIL & GAS COMPANY

RECEIVED
NOV 16 1998

7. Unit Agreement Name

3. Address & Phone No. of Operator

PO Box 4289, Farmington, NM 87499 (505) 326-2700

OIL CON. DIV.
DIST. 3

8. Well Name & Number
Hancock #4A

9. API Well No.
30-045-26384

4. Location of Well, Footage, Sec., T, R, M

810' FNL 1560' FWL, Sec.23, T-28-N, R-9-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

☒ Notice of Intent
☐ Subsequent Report
☐ Final Abandonment

Type of Action

☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☐ Other -
☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut off
☐ Conversion to Injection

13. Describe Proposed or Completed Operations

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

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

Signed Reggie Shaak (JLD) Title Regulatory Administrator Date 11/3/98
TLW

(This space for Federal or State Office use)

APPROVED BY /S/ Duane W. Spencer Title _____ Date NOV 13 1998

CONDITION OF APPROVAL, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

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NMOCD

✓

Hancock #4A
Menefee Pay Add Procedure
Unit C, Section 23, T28N, R09W
Lat: 36°- 39.14886'/Long: 107 ° – 45.66282'

The well is currently completed in the Point Lookout only. It is intended to add the Menefee to this existing Mesaverde producer. The pay add will be sand fracture stimulated in a single stage using a total of 1,711 bbls slickwater and 60,000 lbs 20/40 sand.

1. Inspect location and test rig anchors. Comply with all NMOCD, BLM, Forestry & BR rules and regulations. Dig flowback pit or set flowback tank. Haul to location 2 joints 2-7/8" N-80 tubing and 6-400 bbl frac tanks.
2. MIRU. Fill 400 bbl tanks with 2% KCL water. Run fluid tests on water. Filter water based upon stimulation company water analysis. Record and report SI pressures on tubing, casing and bradenhead. Lay blowdown line. Blow well down and kill with 2% KCL water as necessary. ND WH and NU BOP with flow tee and stripping head. Test operation of rams. NU blooie line and 2-7/8" relief line. Redress production wellhead as needed.
3. TOOH with 2-3/8" Mesaverde production string set at 5044'. Visually inspect tubing, note and report any scale in/on tubing. Replace bad joints as needed.
4. PU and RIH with a 3-7/8" bit, 4-1/2" (10.5 lb/ft) casing scraper on the 2-3/8" tubing string. Clean out to PBTD (~5149') with air/mist. TOOH.
5. RU wireline. RIH and set CIBP at 4680'. RD wireline.
6. TIH with 4-1/2" packer on the 2-3/8" tubing string. Set packer just above CIBP. PT CIBP to 3600 psi. Bleed off pressure. Release packer. Load hole with 2% KCL bbls water. PUH to 4570' and spot 4 bbls 15% HCL across Menefee perforation interval from 4380-4564'.

All acid on this well to contain the following additives per 1000 gals.

2 gal	HAI-81M	Corrosion inhibitor
5 gal	FE-1A	Iron Control
5 gal	FE-2A	Iron Control
1 gal	SSO-21	Surfactant
1 gal	ClaSta XP	Clay control

7. RU logging company. Run GR-CBL-CCL from PBTD to surface casing under 1000 psi. Evaluate CBL. Good cement bond must exist across the Menefee perforation interval (4380-4564') and across the liner top at 2668' to continue with procedure.
8. TIH with 7" packer on 2 joints 2-7/8" N-80 tubing. Set packer at ~60' for wellhead isolation. Pressure test casing to 3000 psi (80% 7" burst). Bleed off pressure. Release packer and TOOH.
9. RU wireline. Perforate Menefee as follows using select fire HSC guns loaded with Owens HSC-3125 302T 10 gram charges set at 2 SPF (Av. perf diameter - 0.29", Av. pen. - 16.64" in concrete). ***Be sure to perforate from top down.***

Hancock #4A
1999 Discretionary Menefee Pay Add

**4380', 4382', 4466', 4474', 4476', 4502', 4516', 4539', 4541', 4543', 4558', 4560',
4563', 4564' at 2 SPF (28 new holes, 2 old holes)**

RDMO wireline company.

10. TIH with 4-1/2" packer on the 2-3/8" tubing string. Set packer at 4180'.
11. RU stimulation company. Pressure test surface lines to 4600 psi. Apply 500 psi to annulus. Monitor annulus for communication. Breakdown Menefee perforations with 25 bbls 15% HCL. Drop 60 RCN 7/8" 1.3 specific gravity perf balls evenly spaced throughout job. Attempt to balloff to 3600 psi. Use same additives as in Step #6. Bleed off pressure and release packer. Lower packer to 4600' to knock off perf balls. TOOH.
12. TIH with 7" packer on 2 joints 2-7/8" N-80 tubing. Set packer at ~60' for wellhead isolation.
13. **Maximum surface treating pressure is 3000 psi.** Fracture stimulate Menefee with 60,000 lbs 20/40 Arizona sand in 1,711 bbls slickwater at **45 BPM**. **If pressures allow, increase injection rate accordingly.** Average surface treating pressure will be 2570 psi. Total estimated casing and perforation friction will be 2718 psi. Treat per the following schedule:

Stage	Water (gals)	Sand Volume (lbs)
Pad	12,500	
0.5 ppg	22,000	11,000
1.0 ppg	7,000	7,000
1.5 ppg	15,333	23,000
2.0 ppg	9,500	19,000
Flush (slickwater)	5,529	
Totals	71,862	60,000

Slow rate during flush. If well is on vacuum near end of frac job, cut flush as necessary to avoid overflushing.

Frac with the following additives per 1000 gals 2% KCL water:

- * 0.18 lb BE-6 Biocide
- * 0.5 gals Friction Reducer

Record ISIP, 5 min SIP, 10 min SIP and 15 min SIP.

RDMO stimulation company.

14. Open well through choke manifold and monitor flow. Flow at 20 BPH or less, if sand is observed. When pressures allow, release 7" packer and TOOH. LD 2-7/8" N-80 tubing and packer.
15. RIH with 3-7/8" bit on 2-3/8" tubing and clean out to CIBP at 4680'. Monitor gas and water returns when applicable. **Take Menefee pitot gauge before drilling up CIBP.** Drill up CIBP. CO to PBDT with air. Blow well at PBDT to check water rates. If needed, continue to blow well for clean up. TOOH.
16. TIH with an expendable check, one 2-3/8" joint, standard SN and remaining 2-3/8" tubing. Broach tubing while running in hole. CO with air/mist to PBDT again, if necessary. **Obtain**

Hancock #4A
1999 Discretionary Menefee Pay Add

final Menefee/Point Lookout pitot gauge. Land tubing at 5078'. ND BOP. NU WH.
Pump off expendable check. RDMO. Contact Production Operations for well tie-in.

Recommended: J. Dobson
Production Engineer

Approved: PJB 10/23/99
Drilling Superintendent

Approved: Stallard 10/21/99
Team Leader

Contact:

Jennifer Dobson 599-4026 (work) 564-3244 (home) 324-2461 (pager)

PERTINENT DATA SHEET
10/13/98

WELLNAME: Hancock #4A					DP NUMBER: 54039A - MV PROP. NUMBER: 072254500 - MV																																																																										
WELL TYPE: Blanco Mesaverde					ELEVATION: DF 6182' GL 6170'																																																																										
LOCATION: 810' FNL, 1560' FWL Unit C, Sec. 23, T28N, R09W San Juan County, NM					INITIAL POTENTIAL: MV 3,205 MCFD																																																																										
					INITIAL SITP: 758 psi																																																																										
OWNERSHIP: GWI: 87.5000% NRI: 72.1875% SJB: 0.0000%					DRILLING: SPUD DATE: 7/12/85 COMPLETED: 9/10/85 TOTAL DEPTH: 5159' PBTD: 5149'																																																																										
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">CASING RECORD:</th> <th>HOLE SIZE</th> <th>SIZE</th> <th>WEIGHT</th> <th>GRADE</th> <th>DEPTH</th> <th>EQUIP.</th> <th>CEMENT</th> <th>TOC</th> </tr> </thead> <tbody> <tr> <td></td> <td>12-1/4"</td> <td>9-5/8"</td> <td>32.2#</td> <td>H-40</td> <td>299'</td> <td>CASING</td> <td>130 sx</td> <td>Surface (circ.)</td> </tr> <tr> <td></td> <td>8-3/4"</td> <td>7"</td> <td>20#</td> <td>K-55</td> <td>2818'</td> <td>CASING</td> <td>160 sx</td> <td>1000' (TS)</td> </tr> <tr> <td></td> <td>6-1/4"</td> <td>4-1/2"</td> <td>10.5#</td> <td>K-55</td> <td>2668-5159'</td> <td>LINER</td> <td>325 sx</td> <td>2668' (circ.)</td> </tr> <tr> <td colspan="9">* 4-1/2" Marker Jt @ 4061'</td> </tr> <tr> <td colspan="8">TUBING RECORD:</td> <td></td> </tr> <tr> <td></td> <td>2-3/8"</td> <td></td> <td>4.7#</td> <td>J-55</td> <td>5044'</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td colspan="7">SN @ 5011'</td> <td></td> </tr> </tbody> </table>								CASING RECORD:	HOLE SIZE	SIZE	WEIGHT	GRADE	DEPTH	EQUIP.	CEMENT	TOC		12-1/4"	9-5/8"	32.2#	H-40	299'	CASING	130 sx	Surface (circ.)		8-3/4"	7"	20#	K-55	2818'	CASING	160 sx	1000' (TS)		6-1/4"	4-1/2"	10.5#	K-55	2668-5159'	LINER	325 sx	2668' (circ.)	* 4-1/2" Marker Jt @ 4061'									TUBING RECORD:										2-3/8"		4.7#	J-55	5044'					SN @ 5011'							
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	Ojo Alamo		1420'	Cliffhouse	4145'																																																																										
	Pictured Cliffs		2440'	Menefee	4172'																																																																										
	Lewis		2620'	Point Lookout	4730'																																																																										
LOGGING: Dresser Atlas (7/17/85): GR-IEL-CDL-T																																																																															
PERFORATIONS																																																																															
	Lwr Point Lookout	4930', 4936', 4952', 4965', 4970', 5006', 5024', 5051', 5070', 5078' (1 SPF)																																																																													
	Point Lookout	4476', 4560', 4736', 4739', 4743', 4744', 4751', 4755', 4765', 4768', 4770', 4776', 4790', 4801', 4804', 4807', 4829', 4839', 4846', 48639', 4882', 4901', 4908' (1 SPF)																																																																													
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	Point Lookout	Broke down w/ 115C gals 15% HCL and 46 balls. Frac'd w/ 90,000 lbs 20/40 sand in 102,106 gals water at 52 BPM and 1300 psi.																																																																													
WORKOVER HISTORY: N/A																																																																															
PRODUCTION HISTORY:																																																																															
		MV		RESERVE INFORMATION:																																																																											
	Cumulative	745	MMCF			DK	MMCF																																																																								
	Current	103	MC=D		Gross EUR	1,380	MMCF																																																																								
					Gross Remaining Reserves	635	MMCF																																																																								
PIPELINE: El Paso Field Service																																																																															

Hancock #4A

Unit C, Section 23, T28N, R9W
San Juan County, NM

Lat: 36° - 39.14886'/Long: 107° - 45.66282'

Current Schematic

Proposed Schematic

