

State of New Mexico
Energy, Minerals and Natural Resources Department
Oil Conservation Division

Sundry Notices and Reports on Wells


<p>1. Type of Well GAS</p> <hr/> <p>2. Name of Operator BURLINGTON RESOURCES OIL & GAS COMPANY</p> <hr/> <p>3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700</p> <hr/> <p>4. Location of Well, Footage, Sec., T, R, M 1190' FSL, 1650' FWL, Sec. 16, T-31-N, R-10-W, NMPM, San Juan County</p>	<p>API # (assigned by OCD) 30-045-10691</p> <p>5. Lease Number</p> <p>6. State Oil&Gas Lease # E-70-20</p> <p>7. Lease Name/Unit Name Brookhaven Com</p> <p>8. Well No. 1</p> <p>9. Pool Name or Wildcat Blanco Mesaverde</p> <p>10. Elevation:</p>
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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

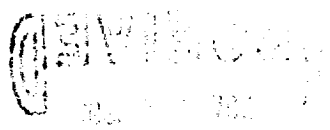
It is intended to add pay to the Mesaverde formation of the subject well according to the attached procedure and wellbore diagram.

RECEIVED
NOV 25 1997
OIL CON. DIV.
DIST. 3

SIGNATURE  (SCOpps) Regulatory Administrator November 24, 1997

(This space for State Use)

Approved by ORIGINAL SIGNED BY ERNIE BUNOZ Title DEPUTY OIL & GAS INSPECTOR, DIST. #3 Date DEC - 2 1997



THE SINCE COMPANY
1000 10th Avenue
New York, N.Y. 10018

and the *Journal of the American Medical Association*

Brookhaven Com #1
Mesa Verde Payadd Procedure
N 16 31N 10W
San Juan County, NM
Latitude: 36 Deg., 53.65 Min
Longitude: 107 Deg., 53.44 Min.

Summary:

The subject well is a 1998 Mesa Verde payadd in 4-1/2" casing. This well was originally drilled in 1953 and was completed open hole in the Point Lookout and Cliffhouse interval. The well was subsequently worked over in 1963, when 4-1/2" casing was run and set at 5251'. The Point Lookout and Cliffhouse interval was perforated and stimulated and placed on production. The subject well will capture the bypassed Menefee pay and will be perforated and fracture stimulated in one (1) stage with 81,396 gal of 20# crossed-linked gel and 145,000# 20/40 mesh sand. The well will then be cleaned-up, tubing landed in the Mesa Verde and placed on production.

- Comply to all NMOCD, BLM and BR regulations. Conduct daily safety meetings for all personnel on location. Notify BR regulatory (Peggy Bradfield 326-9727) and the appropriate Regulatory Agency prior to pumping any cement job and after CBL is run. If an unplanned cement job is required, approval is required before the job can be pumped. If verbal approval is obtained, document the approval in Dims. Allow adequate notice prior to the pump time for the Agency to witness the cementing operation.
 - Inspect location and wellhead and install rig anchors prior to rig move.
 - Construct blow pit.
1. MOL, hold safety meeting and RU completion rig. Insure all safety equipment is strategically located and functioning properly. NU relief lines to blow pit. Set seven (7) 400 BBL frac tanks and fill w/ 2% KCL. Blow well down and kill well with 2% KCL water as necessary. ND wellhead and NU 7-1/16" 3M BOP, stripping head and blooie line. Test BOP.
 2. TOOH w/ approximately 170 jts. 2-3/8" Mesa Verde tubing set at +/- 5178' and stand back. Inspect tubing and replace bad tubing as necessary.**

****NOTE:** If existing tbg. is scaled-up, contact production engineer and a scale analysis will be run. This will determine if we will pump acid down the 2-3/8" 4.7# J-55 workstring and acid wash perforations across the Point Lookout and Cliffhouse interval.
 3. RU wireline. RIH w/ 4-1/2" gauge ring and check wellbore for obstructions to PBTD @ 5224'. POOH.**

****NOTE:** If obstructions are encountered, PU 3-7/8" bit and 4-1/2" 10.5# csg. scraper on 2-3/8" 4.7# J-55 workstring and CO to PBTD @ 5224'. TOOH
 4. RIH and wireline set CIBP @ 5100'. RIH w/ dump bailer and dump 10' of sand on top of CIBP. Load hole w/ 2% KCL (81 bbls). Run GR\CC\CNL from 5090' to 4660'.** Send logs to office immediately to evaluate logs to determine correlation of old logs. RD wireline company.

** Correlate GR logs to old log suite.
 5. RU wireline company to perforate with 3-1/8" HSC gun w/ 10.5 gram charges, 13" penetration and 0.27 perf diameter. Perforate top down the following Menefee interval w/ total of 22 holes at the following depths:** 4714', 4718', 4724', 4734', 4759', 4768', 4785', 4807', 4824', 4845', 4889', 4900', 4920', 4928', 4939', 4997', 5005', 5015', 5023', 5031', 5049', 5066'.

** Correlate GR logs to old log suite.

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6. TIH w/ 4-1/2" fullbore pkr. and approx. 150 jts. 2-7/8" 6.4# N-80 **BUTTRESS** frac string and set @ 4680'. RU stimulation company. Pressure test CIBP to 3800 psi. Pressure test surface lines to 6000 psi. Breakdown perforations @ 4 BPM w/ 1500 gal. 15% HCL acid.** Drop forty four (44) 7/8" 1.1 SG RCN balls @ 4 balls/bbl. Displace acid w/ 2% KCL water to bottom perforation. Balloff to maximum pressure of 3800 psi. Record breakdown pressure, ball action and ISIP. RD stimulation company.

** All acid to contain the following additives/1000 gal.:

2 gal.	CI-22	corrosion inhibitor
5 gal	Ferrotrol-300L	iron control
1 gal	Flo-back 20	surfactant
0.5 gal	Clay Master-5C	clay control

7. Release pkr. and TIH knocking balls off perforations. Reset pkr. @ 4680'.
8. RU stimulation company to frac down frac valve and 2-7/8" 6.4# N-80 **BUTTRESS** frac string. Hold pre-job safety meeting. Pressure test surface lines to 7500 psi prior to stimulation. Maximum allowable surface treating pressure is 6500 psi.
9. Fracture stimulate w/ 2% KCL base frac fluid 20# crossed-linked gel in 1.0 to 4.0 ppg stages @ 30 BPM constant downhole rate with 81,396 gal. of 20# crossed-linked gel and 145,000# 20/40 mesh sand. When sand concentration begins to drop, call flush. Flush to top perf @ 4714'**. Treat Menefee interval per the following schedule:

<u>Stage</u>	<u>Water Vol. (gal)</u>	<u>Sand Vol. (lbs.)</u>	<u>Type</u>
Pad	20,000	0	20/40 Az
1 ppg	15,000	15,000	20/40 Az
2 ppg	15,000	30,000	20/40 Az
3 ppg	20,000	60,000	20/40 Az
4 ppg	10,000	40,000	20/40 Az
Flush	1,396	0	
Totals	81,396	145,000	

Treat frac fluid with the following additives per 1000 gallons:

* 0.15#/M M-275	(Biocide)
* 4.5 gal/M J-877	(Slurry Gel Concentrate)
* 6 gal/M Activator	(Buffer & Crosslinker)
* 1 gal/M F-75	(Surfactant)
* 0.25-1.0 #/M J-218	(Breaker)
* 0.4 mCi Sb-124	(Zero wash radioactive sand mixed on fly, 2-3 ppg sand stage)
* 0.3 mCi Sc-46	(Zero wash radioactive sand mixed on fly, 4 ppg sand stage)
* 0.3 mCi Ir-192	(Zero wash radioactive sand mixed on fly, 5 ppg sand stage)

** After 75% of flush volume has been pumped (1047 gal.), cut rate to 10 BPM. If well goes on a vacuum, shut down. Otherwise, flush to top perf @ 4714'.

10. Shut in frac valve and record ISIP, 5, 10 and 15 shut-in pressure. RD stimulation company.

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11. Flowback well @ 20 bbl/hr until returns diminish. Take pitot gauges when possible. When well is sufficiently clean (less than 1 BWPH), gauge the Menefee interval for one (1) hour.
12. After well cleans up and pressures allow, release pkr. and TOOH standing back 2-7/8" 6.4# N-80 **BUTTRESS** frac string.
13. TIH w/ retrieving head and 2-3/8" 4.7# J-55 workstring and clean-out with air/mist to RBP @5100' then retrieve RBP @ 5100' and TOOH. CO to PBDT @ 5224'.**

****NOTE:** If tbg. was scaled-up, as indicated in step #2 of procedure, acid wash the existing Cliffhouse and Point Lookout perforations w/ treatment specified by service company.
14. TIH with one joint of 2-3/8", 4.7#, J-55 tubing w/ expendable check, magnetic fluid conditioner tool, gas lift mandrel, seating nipple, then the remaining 2-3/8" production tubing. Land tubing @ 5700'.
15. ND BOP's, NU single tubing hanger wellhead. Pump off expendable check. Obtain final pitot up tubing. If well will not flow on it's own, make swab run to seating nipple. If swab run is not necessary, run a broach on slickline to ensure that the tubing is clear. Set bumper spring in seating nipple and drop plunger. RD and MOL. Place well on gas lift/plunger lift combination type production.

Approve: _____
Team Leader

Approve: _____
Drilling Superintendent

Recommend: _____
Production Engineer

VENDORS:

Wireline:	Schlumberger	325-5006	
Stimulation:	Dowell/Schlumberger	325-5096	
Packer:	Arrow Completion Systems	326-5141	
Bridge Plug:	Arrow Completion Systems	326-5141	
Magnetic Fluid Conditioner Tool:	Mag Well	1-800-488-1278	
Gas lift/Plunger lift:	PCS	326-4239	
Steve Campbell	Home 325-8218	Office 326-9546	Pager 564-1902
Bob Goodwin	Home 599-0992	Office 326-9713	Pager 564-7096
Jennifer Dobson	Home 564-3244	Office 326-9708	Pager 324-2461
Mike Pippin	Home 327-4573	Office 326-9848	Pager 324-2559

Brookhaven Com #1
Pertinent Data Sheet

Location: 1190' FSL, 1650' FWL, Unit N, Section 16, T31N, R10W, San Juan County, New Mexico

Latitude: 36° - 53.65'

Longitude: 107° - 53. 44'

Field: Blanco Mesa Verde

Elevation: 6105' GL
6115' KB

TD: 5265'
PBTD: 5224'

Spud Date: 01/01/53

Completed: 01/21/53

DP No: 6585
Lease: E5318-1-NM
GWI: 69.07%
NRI: 58.61%
Prop#: 0023073

Initial Potential: 1760 MCF/D

Casing/Liner Record:

<u>Hole Size</u>	<u>Casing Size</u>	<u>Weight & Grade</u>	<u>Depth Set</u>	<u>Cement</u>	<u>Top/Cement</u>
13-3/4"	9-5/8"	25.4# Spiral Weld	176'	125 sx	Circ. Cmt.
8-3/4"	7"	20# J-55	4550'	300 sx	2595' (TS)
6-1/4"	4-1/2"	10.5# J-55	5251'	200 sx	4610' (TS)

Tubing Record:

<u>Tubing Size</u>	<u>Weight & Grade</u>	<u>Depth Set</u>	<u>Number of jts.</u>
2-3/8"	4.7#	5178'	170

Formation Tops:

	Estimated		
Ojo Alamo	1775'	Menefee	4736'
Fruitland	2460'	Point Lookout	5123'
Pictured Cliffs	2871'	Mancos	5202'
Huerfanito Bentonite	3593'		
Cliffhouse	4564'		

Logging Record: ES, Micro, GRI, Temp.

Stimulation: 7/23/63 Perfs in Point Lookout - 5104-10 w/ 2 SPF; 5126-38 w/ 1 SPF; 5162-68 w/ 2 SPF; 5184-96 w/ 1 SPF. Frac w/ 49,750 gal. water and 60,000 lbs. 20/40 sand. Perfs in Cliffhouse - 4612-18; 4630-36 w/ 2 SPF; 4650-62 w/ 1 SPF. Frac w/ 37,000 gal. water and 40,000 lbs. 40/60 sand.

Workover History: 7/23/63 - Ran 164 jts. 4-1/2" 10.5# J-55 csg. set @ 5251'. Perforated and frac'd Mesa Verde interval.

Pipeline: EPNG

Brookhaven Com #1

Unit N, Section 16, T31N, R10W
San Juan County, NM

Current Schematic

Proposed Schematic

