UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

Sundry Notices and Reports	
	2001 MAR - 6 PM 25.16 Lease Number
	SF-078266
GAS	6. If Indian, All. or Tribe Name
	7. Unit Agreement Nam
. Name of Operator	
BURLINGTON RESOURCES OIL & GAS COMPANY	
	8. Well Name & Number:
Address & Phone No. of Operator	San Jacinto #6E 6-9700 9. API Well No.
PO Box 4289, Farmington, NM 87499 (505) 32	30-045-24057
1. Location of Well, Footage, Sec., T, R, M	10. Field and Pool
1090'FNL, 640'FEL, Sec.20, T-29-N, R-10-W, N	MPM Blanco MV/Basin DK 11. County and State San Juan Co, NM
12. CHECK APPROPRIATE BOX TO INDICATE NATURE OF	NOTICE, REPORT, OTHER DATA
7handannan	e of Action t Change of Plans
X Notice of Intent X Recompleti	on New Construction
Subsequent Report Plugging B	ack Non-Routine Fracturing
Casing Rep	air Water Shut off
Final Abandonment Altering C	asing Conversion to Injection
	well to the Mesaverde formation and
	well to the Mesaverde formation and ons according to the attached procedure
Describe Proposed or Completed Operations It is intended to recomplete the subject commingle the Mesaverde/Dakota formation and wellbore diagram. DHC 37/AZ, 4- 14. I hereby certify that the foregoing is to signed Title Recomplete the subject recommingle the Mesaverde/Dakota formation and wellbore diagram.	well to the Mesaverde formation and ons according to the attached procedure rue and correct. egulatory Supervisor Date 3/6/01 TLW
The subject of that the foregoing is to the subject of the subject	well to the Mesaverde formation and ons according to the attached procedure rue and correct. egulatory Supervisor Date 3/6/01

District I
PO Box 1980, Hobbs, NM 88241-1980
District II
PO Drawer DD, Artesia, NM 88211-0719
District III
1000 Rio Brazos Rd., Aziec, NM 87410
District IV

PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088 Form C-102
Revised February 21, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

___ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

		I Bud Code			' Pool Name							
30-045-24	Pl Numbe 1057	Pool Code Pool Name 72319/71599 Blanco Mesaverde/Basin Dako						ı				
¹ Property C			, b	operty Na	me				* Well Number			
7450				5	San Jaci	nto					6E	
-¹ogrid N			<u>. O</u> l	perator Ni	1 EDE				Elevation			
14538		Burlington Resources Oil & Gas Company					56	58'GR				
		¹⁰ Surface Location										
UL or lot no.	- Section -	Towaship	Range	- Lot-Ida	Feet-from	-the	North/South-line	Feet-fi	from the East/Wes		inc	County
A	20	29N	10W		1090		North	640		East		San Juan
			11 Bot	tom H	ole Locat	ion If	Different Fro	om Su	rface			
UL or lot no.	Section .	. Township	Range	_Lot lds	Feet from	n the	North/South line	Feet (from the East/We		ine	County
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12 Dedicated Act	res " Jois	t or lassill	Consolidatio	on Code	" Order No.							
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Ori:	ginal	plat fro	m Fred	B. Ke	err Jr.,	9-12-	-179.			my supervision the best of m		
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Project Summary:

The San Jacinto #6E was originally completed in the Dakota formation in 1981. Current Dakota production is ±100 MCFPD with cumulative production of 878 MMCF.

Completion Procedure:

The following procedure details the proposed operations to re-complete the wellbore in the Point Lookout and Menefee intervals of the Mesaverde formation, and then commingle with the existing Dakota production.

- Comply with all NMOCD, BLM and BR regulations. Conduct daily safety meetings for all personnel on location. Notify BR regulatory (Peggy Cole 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 frac tanks and fill with 2% KCI water. Blow well down and kill with 2% KCI water as necessary.
- 2. ND wellhead. NU BOP, stripper head and blooie line. Test BOP.
- 3. TOOH w/ 2-3/8", 4.7#, J-55 production string set at 6478' (203 jts, SN at 6448'). Inspect tubing and replace as necessary. Stand back 2-3/8" tubing.
- 4. MI wireline company. Run 3-3/4" gauge ring to check TD (4-1/2" 10.5# csg drift 3.927"). If gauge ring tags above 6401', PU 3-3/4" casing mill on the 2-3/8", 4.7# J-55 tubing. Clean out to PBTD of 6543' (existing Dakota perfs 6401' 6510' OA). Blow well at PBTD to check sand production rates. Make sure well is not making sand before TCOH. TOOH.
- 5. Set 4-1/2" CIBP @ 6370'. TIH w/ 4-1/2" packer on 2-3/8", 4.7#, J-55 tubing. Load hole with 2% KCI water and set packer @ 6320'. Pressure test CIBP to 4050 psi (~85% of burst for 4-1/2" 10.5# K-55 casing).
- 6. Bleed off pressure. Release packer and pull up to 4528'. Spot 5 Bbls of 15% HCl acid** across proposed Point Lookout perf interval (4280' 4528' OA). TOOH. ** 15% HCl acid to contain 2 gals of corrosion inhibitor per 1000 gals of acid.
- Under a lubricator, run CBL-GR-CCL log from 4900' to 3500' (or TOC). Hold 1000 psi on casing while running bond log. Bleed off pressure.
- 8. Evaluate CBL. Good bond must exist across the proposed Mesaverde perforation intervals (Point Lookout 4280' 4528' OA; Menefee 3820' 4148' OA') to isolate the stimulation treatments. Good bond and isolation above the Menefee perforations is also required to prevent the "wet" Massive Cliff House (3604' 3646') from communicating with the wellbore. (Should CBL indicate poor bond or isolation, contact Drilling Manager or Production Engineer to discuss modification of planned perforation depths).

9. Install MB wellhead isolation tool. Pressure test CIBP and 4-1/2" casing to 4050 psi (~85% of burst for 4-1/2", 10.5#, K-55 casing).

POINT LOOKOUT:

10. NU wireline company's perforating guns. Correlate CBL / GR log with attached openhole log section and perforate the **Point Lookout** interval with a select fire HSC gun with HSC-3125-302T / 10.0 gram Owen charges; 0.29" Entry hole; 16.64" penetration in concrete. Shoot 30 holes at the following depths:

RD wireline company.

- 11. RU stimulation company. Hold safety meeting. Pressure test surface lines to 5050 psi.
- 12. Breakdown Point Lookout perforations with 2000 gals 15% HCl acid**. Drop 60 RCN 7/8" 1.3 specific gravity perf balls evenly spaced throughout job. Attempt to balloff. Record ISIP. Maximum surface treating pressure for Breakdown and Ball Off is 4050 psi (~85% of burst for 4-1/2", 10.5#, K-55 casing). **15% HCl acid to contain 2 gals of corrosion inhibitor per 1000 gals of acid.
- 13. NU wireline company. Under lubricator, RIH with junk basket to recover perf balls (4-1/2" 10.5# csg drift 3.927"). Run basket over perfs several times to ensure maximum ball recovery. POOH and ND wireline company.
- 14. NU stimulation company. Hold safety meeting. Pressure test surface lines to 5050 psi.
- Fracture stimulate the Point Lookout with 100,000 lbs 20/40 Arizona sand in 105,000 gals of slickwater at 50 BPM. Tag sand with 3 isotopes. **Maximum surface treating pressure during Fracture Treatment is 4050 psi** (~85% of Burst for 4-1/2", 10.5#, K-55 casing). Average surface treating pressure is estimated to be 2072 psi @ 50 BPM. Estimated tubing and perforation friction will be 1777 psi. Treat per the following schedule:

Stage	Water (gals)	Sand Volume (lbs)		
Pad	15,000			
0.5 ppg	25,000	12,500		
1.0 ppg	30,000	30,000		
1.5 ppg	25,000	37,500		
2.0 ppg	10,000	20,000		
Flush (50' above top perf)	2,825			
Totals	107,825	100,000		

Slow rate during flush. Calculate displacement to spot 10 Bbls of 15% HCl acid** across Menefee perf interval (3820' – 4148' OA). If well is on vacuum near end of frac job, cut flush as necessary to avoid overflushing. ** 15% HCl acid to contain 2 gals of corrosion inhibitor per 1000 gals of acid.

16. Record ISIP, 5, 10, and 15 minute shut-in pressure. ND stimulation company.

- 17. NU wireline company. Under a lubricator, RIH with CIBP and set @ 4200'.
- 18. ND wireline. Pressure test CIBP and 4-1/2" casing to 4050 psi (~85% of burst for 4-1/2", 10.5#, K-55 casing).

MENEFEE:

19. NU wireline company's perforating guns. Correlate CBL / GR log with attached openhole log section and perforate the **Menefee** interval with a select fire HSC gun with HSC-3125-302T / 10.0 gram Owen charges; 0.29" Entry hole; 16.64" penetration in concrete. Shoot 30 holes at the following depths:

RD wireline company.

- 20. RU stimulation company. Hold safety meeting. Pressure test surface lines to 5050 psi.
- 21. Breakdown Menefee perforations with 2000 gals 15% HCl acid**. Drop 60 RCN 7/8" 1.3 specific gravity perf balls evenly spaced throughout job. Attempt to balloff. Record ISIP. **Maximum surface treating pressure for Breakdown and Ball Off is 4050 psi** (~85% of burst for 4-1/2", 10.5#, K-55 casing). **15% HCl acid to contain 2 gals of corrosion inhibitor per 1000 gals of acid.
- 22. NU wireline company. Under lubricator, RIH with junk basket to recover perf balls (4-1/2" 10.5# csg drift 3.927"). Run basket over perfs several times to ensure maximum ball recovery. POOH and ND wireline company.
- 23. NU stimulation company. Hold safety meeting. Pressure test surface lines to 5050 psi.
- 24. Fracture stimulate the Menefee with 100,000 lbs 20/40 Arizona sand in 105,000 gals of slickwater at 50 BPM. Tag sand with 3 isotopes. Maximum surface treating pressure during Fracture Treatment is 4050 psi (~85% of Burst for 4-1/2", 10.5#, K-55 casing). Average surface treating pressure is estimated to be 2383 psi @ 50 BPM. Estimated tubing and perforation friction will be 1717 psi. Treat per the following schedule:

Stage	Water (gals)	Sand Volume (lbs)		
Pad	15,000			
0.5 ppg	25,000	12,500		
1.0 ppg	30,000	30,000		
1.5 ppg	25,000	37,500		
2.0 ppg	10,000	20,000		
Flush (100' above top perf)	2,484			
Totals	107,484	100,000		

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

- 25. Record ISIP, 5, 10, and 15 minute shut-in pressure. ND stimulation company.
- 26. Flow back through choke manifold & monitor flow. Flow @ 20 bbl/hr. or less, if sand is observed.

- When pressure allows, TIH w/ 3-3/4" casing mill on 2-3/8", 4.7#, J-55 tubing and clean out to CIBP @ 4200'. Blow well clean and monitor fluid rates until well is sufficiently clean (<5 BWPH). Take pitot gauges for Menefee only interval.
- Drill out CIBP @ 4200' and clean out to CIBP @ 6370'. Blow well clean and monitor fluid rates until well is sufficiently clean (<5 BWPH), <u>Take pitot gauges for the combined Menefee and Point Lookout intervals.</u>
- 29. Drill out CIBP @ 6370' and clean out to PBTD of 6543' (Existing Dakota perfs 6401' 6510'). Blow well clean and monitor fluid rates until well is sufficiently clean (<5 BWPH), <u>Take pitot</u> gauges for the combined Mesaverde and Dakota intervals. TOOH.
- 30. TIH with an expendable check; S.N. w 1.78" ID; 1 jt. of 2-3/8", 4.7#, J-55 tubing; a 2' pup joint and half of the 2-3/8", 4.7#, J-55 production string. Run a broach on sand line to insure the tubing is clear.
- 31. TIH with remaining 2-3/8" tubing and broach this tubing. Replace any bad joints. CO to PBTD with air/mist. PU above perforations. Alternate blow and flow periods, making short trips for clean up as necessary.
- 32. Land tubing @ ±6460'. Pump off check valve. Flow up tubing. <u>Take final water rates and pitot gauge for gas rates.</u>
- 33. ND BOP & NU wellhead & tree. During workover operations the reservoir may be charged with air. As a result of introducing air to the wellbore, excess oxygen levels may be in the reservoir and/or wellbore. Contact the Lease Operator to discuss the need for determining oxygen levels prior to returning the well to production.
- 34. Rig down & release rig. (Post frac tracer log will be run through tubing after the rig is off location).

BEECH STORY OF BEST CONTROL OF

San Jacinto #6E Mesaverde Re-completion & Mesaverde / Dakota Commingle 1090' FNL, 640' FEL

Unit A, Sec. 20, T-29-N, R-10-W San Juan County, NM

Approve: Cour Team Le	eader		Approve:	Drill	ling Manage	7-2-01
Recommend: (/////Producti	on Engineer		Regulatory: Yes No		/ Notice Req	uired
Vendors: Stimulation: Radioactive Tag	_	o Preference oTechnics	326) <u>)lýú</u> -7133	y Col	10 3-2-01
Production Engineer: Lease Operator: Specialist:	Randy Buckley Donnie Thompso Terry Nelson		326-9597	Page Cell Cell	326-8820 320-2639 320-2503	Home 599-8136 Pager 327-8814 Pager 326-8473

Office 326-3560

Specialist:

Forman:

Steve Florez

Pager 326-8199

Cell 320-0029

San Jacinto #6E

Unit A, Sec. 20, T-29-N, R-10-W San Juan County, New Mexico

Wellbore Diagram

