UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

Sundry Notices and R	eports on Wells	3 , 3, 00		
1. Type of Well GAS	City and	, , , a)	5. 6.	Lease Number SF-079492C If Indian, All. or Tribe Name
2. Name of Operator			7.	Unit Agreement Name
BURLINGTON RESOURCES OIL & GAS COMP	PANY		8.	San Juan 27-5 Unit Well Name & Number
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (5	05) 326-9700		9.	San Juan 27-5 U #98 API Well No. 30-039-07064
4. Location of Well, Footage, Sec., T, R, 1850'FNL, 1070' FWL, Sec.14, T-27-N, R				Field and Pool Blanco MV/Basin DK County and State Rio Arriba Co, NM
Subsequent Report Plug Casi	ging Back ng Repair ring Casing	_ Water Sh	ine l	Fracturing Ef
It is intended to recomplete the surthe attached procedure and we commingled. A down hole commingled.	bject well in v	m. The we	If willied	ll then be down hole
14. I hereby certify that the foregoing Signed MAH Malkella (JASPUD		orrect.	 .	
(This space for Federal or State Office u APPROVED BY S/DEER W. SPERCE TIT CONDITION OF APPROVAL, if any:		Dat	e _	MAR 20 1997
<u>(4)</u>				

NMOCO

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Mark RHC

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

PO Box 2088. Santa Fe. NM 87504-2088

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION Submit to Appropriate District Office PO Box 2088 Santa Fe. NM 87504-2088

Form C-102 Revised February 21, 1994

Instructions on back

State Lease - - Comes

Fee Lease - 3 Copies

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

Property Code Property Name Property Nam	· ·	API Numbe		T	¹ Pool Code	 				' Pool Na	ED¢ .		
Property Code Property Name Property Name Property Name Property Name Page	30-030	<u> </u>	. 4	7231	19/715	9 9	BI	anco Mesave	erde	-/Basi	n Dako	nta	
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BURLINGTON RESOURCES

San Juan 27-5 Unit #98

Blanco Mesaverde R/C & Commingle w/ Dakota Unit E, Section 14, T27N, R5W Rio Arriba County, New Mexico Lat:36° 34' 32" Long:107° 19' 57"

- Comply with all BLM, NMOCD, & MOI rules & regulations.
- Always Hold Safety Meetings. Place fire and safety equipment in strategic locations.
- Use DRILL GAS if possible over AIR.
 - 250' of 2-3/8" 4.7#, EUE, J-55 workstring (1 jt needed for prod. tbg) & (6) 3-1/8" drill collars (if necessary)
- 2 joints of 2-7/8" J-55 or N-80 tubing and 4-1/2" full bore packer.
- 10 frac tanks to be spotted and filled with 2% KCI water (includes 1 rig tank).
- Ensure CIBP's are T-Lok, if stacked plugs are run.

This well is part of the 1997 MV PUD Commingle program. The well is currently completed in the Dakota with a production rate of 155 MCFD/ <1 BOPD. Cumulative Dakota production is 1,546 MMCF and 9.3 MBO. The Mesaverde interval will be added and the zones will be commingled upon completion of the well.

- MIRU. Record and report SI pressures on tubing, casing, & bradenhead. Lay blowdown line. Blow down casing & tubing. Kill well w/ 2% KCl down tubing. ND WH, Replace any failed valves or seals on wellhead. NU BOP.
- 2. TOOH & strap 250 jts of 2-3/8" (J-55, EUE, 4.7#) tubing @ 7865'. Visually inspect tubing, note and report any scale in tubing. Lay down bad joints. Tubing may be used for cleanout and rerun for production string if there is no scale or other problems.
- 3. Note: DV tool @ 5949' (take notice when running scraper across this interval). PU 3-7/8" bit, 4-1/2" csg scraper, six (6) 3-1/8" drill collars (if necessary) and TIH w/ 2-3/8" tbg. PU and strap additional 2-3/8", 4.7#, J-55, EUE workstring. Clean out w/ gas to PBTD @ 7937'. TOOH.
- 4. RU wireline. If tubing had appreciable scale when pulled from hole in Step 2., run 4-1/2" 10.5# WL gauge ring to 6010'. RIH and set a 4-1/2" CIBP @ 6000'.
- Load hole w/ 2% KCL water. RU wireline. Hold 1000 psi on casing and run GR/CBL from 5999' to 200' above TOC. Note: Estimated top perforation @ 5069'. RD wireline.
- 6. PU a 4-1/2" pkr on 2 jts of 2-3/8" tubing and set @ 60'. Pressure test casing and CIBP to 3000 psi (62% of 4800 psi burst). Hold for 10 minutes. If PT does not hold, TIH and search for leaks. Locate leak(s). TOOH. Engineering will provide squeeze design if necessary.
- 7. TIH w/ 2-3/8" workstring open-ended blowing hole dry in stages to 5950' (50' above CIBP). Spot 500 gallons of 15% HCL with 2/1000 gal inhibitor and 1/1000 surfactant. TOOH
- 8. RU wireline under packoff. Perforate underbalanced Lower Menefee and Point Lookout @ the following depths with 3-1/8" HSC guns, <u>1 and 2 SPF @ 120° phasing</u>, 12 gram charges (Owen HSC-3125 306T) and 0.29" diameter holes:

2 SPF @ 120° 5907, 5892, 5822, 5815, 5808, 5786, 5752 7 Intervals - 14 Holes

1 SPF 5735, 5722, 5714, 5702, 5688, 5676, 5668, 5656, 5604, 5600, 5578, 5554, 5544, 5532, 5518, 5496, 5492, 5488, 5482

19 Intervals - 19 Holes

Total - 26 Intervals - 33 Holes

- 9. Change rams to 2-7/8". PU 4-1/2" PKR on 2 jts of 2-7/8", J-55 or N-80 tubing/fracstring.
- 10. RU stimulation company. Pressure test surface lines to 4000 psi. **Maximum STP = 3000 psi.** Hold 500 psi on annulus behind packer and monitor during the job. Also monitor the 7-5/8" by 4-1/2" annulus. Fracture stimulate the Point Lookout & Lower Menefee w/ Arizona sand in a 25# XL gel. When rate and pressure stabilize during pad shut down and obtain ISIP. When one-half of flush volume is gone, slow rate by 50% to determine if fluid will be on a vacuum. Adjust flush volume accordingly.

If well has pressure when stimulation is complete, stimulation company is to monitor pressures for 30 minutes after shutdown. Flowback well if necessary to release packer. Flowback should continue for as long as necessary to release pkr (not to exceed 3-4 BPM). When well dies, release packer and stand back.

- 11. RU wireline. If necessary, run 4-1/2" 10.5# WL gauge ring to 5470'. RIH and set a 4-1/2" CIBP @ 5460'.
- 12. Change to 2-3/8" rams. Load hole w/ 2% KCL water. PU 4-1/2" pkr on 2 jts of 2-3/8" tubing. Pressure test casing and CIBP to 3000 psi (62% of 4800 psi burst). Hold for 10 minutes. Release pressure and stand back packer.
- 13. TIH open ended w/ 2-3/8" workstring. Blow down with gas going in hole. Blow hole dry @ 5440'. Spot 400 gallons of 15% HCL with 2/1000 gal inhibitor and 1/1000 surfactant. TOOH.
- 14. RU wireline under packoff. Underbalance perforate the Cliffhouse and Menefee @ the following depths with 3-1/8" HSC guns, 1 and 2 SPF @ 120° phasing, 12 gram charges (Owen HSC-3125 306T) and 0.29" diameter holes:

2 SPF @ 120° 5439, 5423, 5412, 5395, 5362, 5356, 5333, 5311 8 Intervals - 16 Holes

1 SPF 5302, 5287, 5278, 5274, 5260, 5248, 5242, 5229, 5208, 5203, 5199, 5186, 5179, 5148, 5115, 5108, 5104, 5084, 5069

19 Intervals - 19 Holes

Total - 27 Intervals - 35 Holes

- 15. Change out rams to 2-7/8". PU 4-1/2" pkr on 2 jts of 2-7/8", J-55 or N-80 tubing/fracstring.
- 16. RU stimulation company. Pressure test surface lines to 4000 psi. **Maximum STP = 3000 psi.** Hold 500 psi on annulus behind packer and monitor during the job. Also monitor the 7-5/8" by 4-1/2" annulus. Fracture stimulate the Cliffhouse/Menefee w/ Arizona sand in a 25# XL gel. When rate and pressure stabilize during pad shut down and obtain ISIP. When one-half of flush volume is gone, slow rate by 50% to determine if fluid will be on a vacuum. Adjust flush volume accordingly.
- 17. If well has pressure when stimulation is complete, flow back well immediately to pit. Flowback rate not to exceed 4 BPM choke flowback line with 1/4" to 1/2" positive choke. Frac company is to monitor flowback pressures for 30 minutes after shutdown. Flowback should continue for as long as necessary to release PKR.
- 18. When well dies, release pkr & stand back. Change out rams to 2-3/8".
- 19. PU 3-7/8" bit and collars (if necessary) on 2-3/8" workstring and TIH. Clean out to CIBP @ 5460'. If well cleans and dries up quickly obtain pitot gauge. Obtain 15, 30, 45 & 60 minute pitot gauges.

- Drill CIBP @ 5460'. Clean out to CIBP @ 6000'. Clean up well to obtain an accurate pitot gauge. Obtain 20. 15, 30, 45 & 60 minute MV pitot gauges. Pitot gauges are required by the NMOCD for commingling approvai.
- Drill CIBP @ 6000'. Clean out to PBTD @ 7937'. Obtain commingled 15, 30, 45 & 60 minute pitot 21. gauges. Pitot gauges are required by the NMOCD for commingling approval. When well is clean TOOH.
- Run production tubing as follows: expendable check, one joint 2-3/8" tubing, standard SN, and remaining 22. 2-3/8" tubing plus 1 additional joint (+/- 31"). Broach tubing while running in hole. Land tubing @ +/-7896' or approximately 31' deeper than the original tubing depth.
- ND BOP, NU WH. Pump off expendable check and flow well up tubing. Run swab to SN to ensure tubing 23. is clear. RD & release rig to next location.

Approved:

Approved:

Recommended Vendors:

Stimulation

Rig Dependent

Cased Hole Services

Rig Dependent

Jimmy Smith

326-9713-(W)

Sean Woolverton

326-9837- (W)

Engineering

324-2420-(P)

326-8931- (P)

327-3061-(H)

326-4525- (H)

JAS JAS

PERTINENT DATA SHEET SAN JUAN 27-5 UNIT #98

Location:	1850' FNL, 1070' FWL	Elevation:	6679' RDB
	Unit E, Section 14, T27N, R5W	<u>LAT:</u>	36° 34' 32"
	Rio Arriba County, New Mexico	LONG:	107° 19' 57"
Field:	Basin Dakota/Blanco Mesaverde	<u>DP#:</u>	51 536A - DK
TD:	7970'		35747A - MV
PBTD:	79 37 '	GWI:	55.02% - DK
Spud Date:	05/25/65	NRI:	46. 03 % - DK
Completion Da	nte: 06/20/65	GWI:	67. 46% - MV
		NRI:	56.91% - MV

Casing Record:

Hole Size 13-3/4"	Casing Size 10-3/4"	Weight & Grade 32.75#	Depth Set 208'	<u>Sxs Cmt</u> 250	Cement Top surface
9-7/8"	7-5/8"	26.4#, N-80 29.7#, N-80	1630' 1630-3666'	1100	1800' (calc)
6-3/4"	4-1/2"	10.5# DV Tool @ 5949'	7970'	525 (2 stages)	3000' (calc)

Tubing Record:

Tubing Size	Weight & Grade	Depth Set	<u>BHA</u>
2-3/8"	4.7#, J-55	7865'	Baker Model 'B' Nipple @ 7825'

Formation Tops:

ormacion rops.					
Pictured Cliffs	3500'	Menefee	5314'	Gallup	6885'
Upp. Cliffhouse	5050'	Pt. Lookout	56 5 0'	Greenhorn	7596'
Mass. Cliffhouse	51 75 '	Mancos	5825'	Dakota	7804'

Logging Record:

Electric and Gamma Ray Neutron

Stimulation:

Perfs: 7811-19', 7863-69', 7884-90', 7908-14', w/2 SPF

Treated w/600 gal acid, 27,640 gal water, & 16,500# sand

Perfs: 7692-7710' w/3 SPF, Treated w/500 gal acid, 37,070 gal water, & 30,000# sand

Workover History:

None

Production History:

Latest Deliverability	155 MCFD	<1 BOPD
Initial Deliverability	133 MCFD	ISIP: 2256
Cums:	1546 MMCF	9.3 MBO

Transporter:

Oil/Condensate: Giant Gas: Williams

San Juan 27-5 Unit #98

Blanco Mesaverde/Basin Dakota

Unit E, Section 14, T27N, R5W Rio Arriba County, NM Elevation: 6679' RDB

LAT: 36°34' 32" / LONG: 107°19' 57"

date spud: 05-25-65

