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

Sundry Notices and	Reports on Wells
	API # (assigned by OCD) 30-039-20669
1. Type of Well	5. Lease Number Fee
GAS	6. State Oil&Gas Lease #
2. Name of Operator	7. Lease Name/Unit Name
BURLINGTON RESOURCES OIL & GAS COMPANY	San Juan 28-6 Unit 8. Well No.
3. Address & Phone No. of Operator	179
PO Box 4289, Farmington, NM 87499 (505) 326-97	9. Pool Name or Wildcat WC:Cereza Canyon Gallu Basin Dakota
4. Location of Well, Footage, Sec., T, R, M	10. Elevation:
1180'FSL, 1500'FWL, Sec. 13, T-27-N, R-6-W, NMPM,	Rio Arriba County
Type of Submission Type of	
$oxed{X}$ Notice of Intent $oxed{M}$ Abandonment $oxed{X}$ Recompletion	Change of Plans New Construction
Subsequent Report Plugging Back	Non-Routine Fracturing
Casing Repair Final Abandonment Altering Casing Other -	Water Shut off g Conversion to Injection
13. Describe Proposed or Completed Operations	
It is intended to add the Gallup formation to attached procedure and wellbore diagraset for approximately 90 days for test be down-hole commingled. A down-hole of	m. A cast iron bridge plug will be ing purposes. The well will then
	DEC - 3 1997
	OIL COM. DIV.
SIGNATURE MALKEL (RGOpps) Regul	atory AdministratorDecember 1, 1997
(This space for State Use)	
Approved by June Buth Title DEPUTY O	L B CAS INICIPECTOR DICT #2 DEO = 7 4003
Approved by July / Nuff Title Utruit 0	L& GAS INSPECTOR, DIST. #3 Date UEC - 3 1997

District I PO Box 1980, Hobbs, NM 88241-1980

State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102
Revised February 21, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

District II PO Drawer OD. Artesia. NM 88211-0719

District III 1000 Rio Brazos Rd., Aztec, NM 87410

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088

District IV PO Box 2088, Santa Fe. NM 87504-2088

AMENDED REPORT

			WELL	_ LOCAT	ION AND A	CREAGE DEDI	CATION PL	.AT	
	API Numbe	ber 'Pool Code 'Pool Name							
30-039-									
*Property	Code	Property Name Well Number SAN JUAN 28-6 UNIT 179							
7462									179
'OGRID			BURL	INGTON	*Operator	Name S OIL & GAS	COMPANY		Elevation 6419
14330					¹⁰ Surface				-
UL or lot no.	Section	Townshap	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/Nest line	County
N	13	27N	6 W		1180	South	1500	West	RIO ARRIBA
- 10 - 10 - 00	- Canada	11 E	Botto	n Hole	Location I	f Different	From Sunf		County
UL or lot no.	Section	1 CMF98113D	Hartos	Cot for	reet from the	NOTOV SOUCH INE	Pest from the	East/West line	County
Gal - 16	<u> </u>	13 Joint or Ir	nfill M C	oneoladetaon Cod	e ¹⁵ Order No.	1	I	<u>!</u>	
DK - W/3		<u>;</u>							
		ILL BE OR A	ASSIGN	NED TO TH STANDARD	HIS COMPLETI UNIT HAS BE	ON UNTIL ALL EEN APPROVED	INTERESTS H BY THE DIVI	AVE BEEN CO	NSOLIDATED
				//&			17 OPER	ATOR CERT	TETCATION
							I hereby cert	tify that the information	on contained herein 15
		į			*Not re	: -surveyed:			
					Prepare	d from plat	:		
		į			By: Dav	id O. Vilve April 13. 1	972		
				Š	Dacca.				•
<u>_</u>		.L					- Jean	ry Sta	hull
		1		3		1	Signatur		
							Printed	Bradfiel	<u> </u>
						!		atory Adm	inistrato:
				3			Title		
		1				!	12-2-	97	
<u> </u>		ĺ	 .	****		i — —	Date		
X/////	///////			<i>後</i> たっ				EYOR CERT	
		1				1	Hee plotted or under my	tify that the well local from field notes of act supervision, and that t	UEL BUTYEYS MEDIT DY SE NO SERE IS TILE BOD
						and the second second second	COTTOCK TO C	THE CHEST OF MY CHILDET.	
		1			ាឱាតា	BEIVE			
)) <u>NOV</u>	EMBER 20.	1997
					17.7 DI	EC - 3 1867 -	Date of	Suprey. EDI	
777.						done many	Signeture and	A A A A A A A A A A A A A A A A A A A	
15	00,	1 1				tolle bly	/o / <u>·</u>	W WEX	? \ <u>`</u> o\
		-				L 113.9		Z (6857)	[5]
1991.		8							#W
		11		111.		1			
MIIII		XXXXX	4441			1	Certific	ate Number	
		MMILL		///80					

San Juan 28-6 Unit #179

Burlington Resources Oil & Gas

Miobrara Payadd GALLUP RECOMPLETION

UnitN-Sec13-T27N-R06W

Lat: 36° 34′ 14″ Long: 107° 25′ 19"

Comply with all BLM, NMOCD, & BR rules & regulations.

Always Hold Safety Meetings. Place fire and safety equipment in strategic locations.

Spot and fill 4 frac tanks with 2% KCl water.

- Use drill gas for all operations.
- (2) 4-1/2" CIBP required for 4-1/2" 11.6# K-55 pipe.
 - (1) 4-1/2" Model 'EA' Retreivamatic Packer
- 7750' 2-3/8" 4.7# 8rd EUE workstring
- 2 joints (+/- 60') 2-7/8" 6.4# N-80 BTC tubing

The well is currently completed in the Basin Dakota (61 MCFD). Cumulative production is 1344 MMCF from the Dakota. Gallup/Niobrara pay will be added and stimulated in two stages with a 70 Quality foam and 30# linear gel frac. The frac will be done in two days, allowing time for proper flowback of each stage. Foam is being used to keep damaging fluids off the formation and assist in flowback. Controlled flowback will be used to insure proppant placement in the frac.

NOTE: Dakota perfs open 7354' - 7564'

- MIRU. Record and report SI pressures on tubing, casing, and bradenhead. Blow down casing and tubing. Kill well w/ 2% KCl. ND WH, NU BOP.
- TOOH with 1-1/2" 2.9# J-55 tubing from 7550' (233 joints) and LD. Rabbit and strap 2. tubing. Visually inspect tubing, note any scale. Replace any bad tubing.
- 3. RU wireline unit. Run gauge ring to 7050'. Wireline set 4-1/2" CIBP at 7030' to isolate the Dakota, POOH.
- PU 4-1/2" retrievable packer with 2 joints of 2-7/8" BTC tubing. Set packer at 60' 4.
- Pressure test 4-1/2" casing to 3800 psi for 10 minutes. If casing fails, TIH with 4-1/2" 5. packer and hunt hole(s). Engineering will provide squeeze design if required. TOOH.

First Stage:

- Spot 350 gallons 15% Acetic acid (w/ 2 gal/1000 corrosion inhibitor) at 6980'. TOOH, standing 2-3/8" back. (If separate trip is required, skip spotting acid.)
- RU wireline under packoff. Perforate first stage (top-down if in acid) at the following depths with a 3-1/8" HSC gun w/ Owen 3125306P 12g charges (0.29" hole, 12" penetration), 1 SPF @ 180 degree phasing.

6775', 6780', 6785', 6790', 6795', 6800', 6805', 6815', 6820', 6825', 6830', 6835', 6840',

6845', 6850', 6855', 6875', 6880', 6885', 6890', 6895', 6900', 6905', 6910', 6915', 6920',

6925', 6945', 6950', 6955', 6960', 6965', 6970', 6975', 6980'

(35 total holes, 205' gross interval)

- 8. Set packer at 60'. RU stimulation company. Pressure test surface lines to 4800 psi. Max surface pressure = 3800 psi. Break down first stage w/ 1000 gallons 15% Acetic acid (w/ 2 gal/1000 corrosion inhibitor) and 62 7/8" 1.3 s.g. ball sealers. Release pressure, RD stimulation company. TOOH. RU wireline unit. Run junk basket and recover balls. Record number of hits. RD wireline unit.
- 9. RU flowback equipment so that flowback can commence within 30 min. after shutdown
- 10. Set packer at 60'. RU stimulation company. Pressure test surface lines to 4800 psi. **Max surface pressure** = 3800 psi. Fracture stimulate the first stage w/ 150,000# 20/40 Arizona sand in 50,661 gal 70 Quality foam with 30# Linear gel. See attached frac schedule for details. (1 frac tank needed for stimulation and 1 needed for balloff / breakdown)

	Foam Volume	Gel Volume	Sand Volume
<u>Stage</u>	(gals)	(gals)	<u>(lbs)</u>
Pad	6,000	1,800	0
2.0 ppg	5,000	1,500	10,000
3.0 ppg	10,000	3,000	30,000
4.0 ppg	15,000	4,500	60,000
5.0 ppg	10,000	3,000	50,000
Flush	4,661	1,398	0
Totals	50,661	15,198	150,000

11. Treat frac fluid with the following additives per 1000 gallons:

* 6.75 gal	(Guar Slurried Gel)
* 5.0 gal F-52.1	(Foamer mix on the fly)
* 1.0#	(Enzyme Breaker mix on the fly)
* 1.0#	(Oxidator Breaker mix on the fly)
* 2.0 gal L55	(Clay Control)
* 0.38#	(Bacteriacide mix on the fly)

12. Shut well in after frac and record ISIP. RD stimulation company. Install flowback line above frac valve. Wait for 30 min before commencing flowback. Open well to pit, starting with a 10/64" choke. If minimal sand is being produced, change to a larger choke size (16/64"). If choke plugs off, shut well in and remove obstruction from choke and return to flowback. Continue increasing choke size and cleaning well up until fluid returns are negligible. Take pitot gauges when possible.

Second Day

- 13. RD flowback equipment. TOOH.
- 14. RU wireline unit. Wireline set 4-1/2" CIBP at 6770' to isolate the first stage from the second. POOH. RD wireline unit.
- 15. Set packer at 60'. RU stimulation company. Pressure test CIBP to 3800 psi. RD stimulation company. TOOH.

Second Stage:

16. RU wireline under packoff. Perforate second stage at the following depths with a 3-1/8" HSC gun w/ Owen 3125306P 12g charges (0.29" hole, 12" penetration), 1 SPF @ 180 degree phasing.

6545', 6550', 6555', 6560', 6565', 6570', 6575', 6580', 6585', 6590', 6615', 6620', 6625', 6630', 6635', 6640', 6645', 6650', 6655', 6660', 6675', 6680', 6685', 6690', 6695', 6700', 6705', 6710', 6715', 6720', 6725', 6730' (32 total holes, 185' gross interval)

- 17. Set packer at 60'. RU stimulation company. Pressure test surface lines to 4800 psi. Max surface pressure = 3800 psi. Break down second stage w/ 1000 gallons 15% Acetic acid (w/ 2 gal/1000 corrosion inhibitor) and 64 7/8" 1.3 s.g. ball sealers. Release pressure, RD stimulation company. TOOH. RU wireline unit. Run junk basket and recover balls. Record number of hits. RD wireline unit.
- 18. RU flowback equipment so that flowback can commence within 30 min, after shutdown
- 19. Set packer at 60'. RU stimulation company. Pressure test surface lines to 4800 psi. **Max surface pressure** = 3800 psi. Fracture stimulate the first stage w/ 155,000# 20/40 Arizona sand in 50,494 gal 70 Quality foam with 30# Linear gel. See attached frac schedule for details. (1 frac tank needed for stimulation and 1 tank needed for balloff / breakdown)

	Foam Volume	Gel Volume	Sand Volume
<u>Stage</u>	(gals)	(gals)	<u>(lbs)</u>
Pad	6,000	1,800	0
2.0 ppg	5,000	1,500	10,000
3.0 ppg	10,000	3,000	30,000
4.0 ppg	10,000	3,000	40,000
5.0 ppg	15,000	4,500	75,000
Flush	4,494	1,348	0
Totals	50,494	15,148	155,000

Treat frac fluid with the following additives per 1000 gallons:

* 6.75 gal
(Guar Slurried Gel)

* 5.0 gal F-52.1
(Foamer mix on the fly)

* 1.0#
(Enzyme Breaker mix on the fly)

* 1.0#
(Oxidator Breaker mix on the fly)

* 2.0 gal L55
(Clay Control)

* 0.38#
(Bacteriacide mix on the fly)

20. Shut well in after frac and record ISIP. RD stimulation company. Install flowback line above frac valve. Wait for 30 min before commencing flowback. Open well to pit, starting with a 10/64" choke. If minimal sand is being produced, change to a larger choke size (16/64"). If choke plugs off, shut well in and remove obstruction from choke and return to flowback. Continue increasing choke size and cleaning well up until fluid returns are negligible. Take pitot gauges when possible.

San Juan 28-6 Unit #179 Burlington Resources Oil & Gas 11/07/97

- 21. RD flowback equipment. TOOH.
- 22. TIH w/ 3-7/8" bit on 2-3/8" tubing and clean out to CIBP at 6770'. Pull up above perfs, obtain pitot gauge. Drill up CIBP, clean out to 7030'. Clean up to minimal water and trace to no sand. Obtain pitot gauge for Gallup.
- 23. Drill up CIBP @ 7030', clean out to PBTD @ 7596'. Clean up to minimal water and trace to no sand. Obtain pitot gauge. TOOH, laying down workstring. CIBP WILL REMAIN FOR PRODUCTION TEST
- 24. Prepare to run production tubing string as follows: expendable check, one joint 1-1/2" tubing, 1.78" seating nipple, and remaining tubing. Land tubing @ 7550". (435)"
- 25. ND BOP, NU WH. Pump off expendable check and flow well up tubing to ensure check pumped off. Gauge well. RD & release rig to next location.

Recommended

Production Enginee

ハーマイタア

Concur:

Basin Opportunities Team Leader

Approved:

Drilling Superintendent

Vendors:

Wireline

Basin

327-5244

Stimulation

Dowell

325-5096

Production Engineer:

Bobby Goodwin 326-9713-work 564-7096-pager 599-0992-home

Pertinent Data Sheet - San Juan 28-6 Unit # 179 N 13 T27N R06W

Location: 1180' FNL & 1500' FWL, Unit N, Section 13, T27N, R06W, Rio Arriba County, New Mexico

Field: Basin Dakota

Spud Date: 7/1/73

Elevation:

6419' GL

7605' TD:

6431' KB

PBTD: 7596'

Lease#: SF-079363

DP #: 44085A

Dakota Niebrara **GWI:** 56.65% **NRI:** 46.14%

GWI: 93.40% NRI: 72.36%

GALLUP

Prop#: 007970300

Casing Record:

Hole Size	Csg Size	Wt. & Grade	Depth Set	Cement	Cement (Top)
12-1/4"	9-5/8"	32.3# H-40	218'	190 sx	Circ 12 BBL Cmt
8-3/4"	7"	20.0# K-55	3442'	114 sx	2250'
6-1/4"	4-1/2"	10.5# K-55	6469'	Total of	
6-1/4"	4-1/2'	11.6# K-55	7605'	349 sx	3060'

Float Collar at 7596'

Tubing Record:

1-1/2"

2.9# K-55

7550'

233 Jts

Formation Tops:

Ojo Alamo:	2421'	Point Lookout	5311'
Kirtland Shale:	2641'	Mancos	5466'
Fruitland:	2971'	Gallup	6296'
Pictured Cliffs:	3156'	Greenhorn	7256'
Lewis	3236'	Graneros	7314'
Mesaverde	4791'	Dakota	7469'

Logging Record: Induction Log, Density-Nuetron Log, Temperature Survey

Stimulation: Perfed Dakota w/1 spf @ 7354', 7428', 7464', 7466', 7500', 7526', 7528', 7564'. Total 8 holes. Fraced w/72,000# 40/60 sand in 91,080 gal slickwater.

Workover History: None

Production History: Dakota in this well has an EUR of 1.577 BCF with remaining reserves of 233MMCF. The well is producing at 61 MCFD.

Pipeline: El Paso Natural Gas - Gas

Giant - Oil/ Condensate

San Juan 28-6 Unit #179

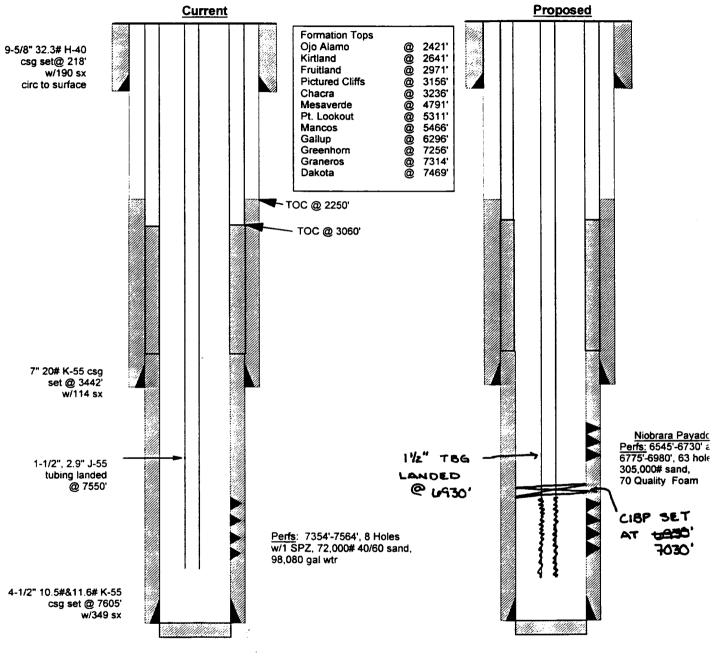
Basin Dakota/Miobrara Payadd GALLUP

Unit N, Section 13, T27N, R06W

RECOMPLETION

Rio Arriba County, NM Elevation: *6419' GL

> LAT: 36 34' 13" LONG: 107 25' 19" date spud: 07-01-73



TD: 7605' PBTD: 7596'

TD: 7605' PBTD: 7596'