UNITED STATES

DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT DESCRIPTION

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Sundry No	otices and Reports on Well	ls	
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			Lease Number
		MA SALAM 6.	SF-080516A
1. Type of Well	0/J f. ···	6.	If Indian, All. or
GAS			Tribe Name
		7.	Unit Agreement Name
2. Name of Operator			
BURLINGTON			
DEWNINCEC	L & GAS COMPANY		San Juan 28-5 Unit
02.	a wond communication	8.	
3 Address 5 Phone No. of Ones		٥.	
3. Address & Phone No. of Oper		•	San Juan 28-5 U #54E
PO Box 4289, Farmington, N	M 87499 (505) 326-9700	9.	API Well No.
			30-039-23813
4. Location of Well, Footage,		10.	Field and Pool
1190'FNL, 1495'FWL, Sec.20,	T-28-N, R-5-W, NMPM		WC:Munoz Canyon Gallup
			Basin Dakota
		11.	County and State
			Rio Arriba Co, NM
12. CHECK APPROPRIATE BOX TO I			DATA
Type of Submission	Type of Act		
X Notice of Intent		Change of Pla	
		New Construct	
Subsequent Report		_ Non-Routine	
		Water Shut o	
Final Abandonment	Altering Casing _	Conversion to	o Injection
	Other -		
			
13. Describe Proposed or Com	pleted Operations		
It is intended to add th	ne Gallup formation to the	e subject well:	according to the
	re and wellbore diagram.		
-	ately 90 days for testing		
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14. I hereby certify that th	e foregoing is true and	correct.	
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Signed May - Mahue	(RGOpps) Title Regulat	orv Administrat	tor Date 12/1/97
Contract Statement	(Mooppo) IIcie Reduiat	ory manifilation	<u> </u>
(This space for Federal Space	e Office use)		-
APPROVED BY	Title	Date NF	C - 1 1997
CONDITION OF APPROVAL, if any:			
-	FOR PAC		
110th 0-104	1		

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

State of New Mexico Energy, Minerals & Natural Resources Department

Form C-10 Revised February 21, 199 Instructions on bar

District II PO Drawer DD. Artesia, NM 88211-0719

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

OIL CONSERVATION DIVISION

PO Box 2088

PO Box 2088

Santa Fa NM 97504 2000 Santa Fe. NM 87504-2088

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

AMENDED REPOR

WELL LOCATION AND ACREAGE DEDICATION PLAT

				CATION AND ACREAGE VEDICATION PLAT					
'API Numbe		ł	*Pool Cor		¹Pool Name				
30-039-23813	3 4 7 4 7 7 7 2 3 3 3				WC:Munoz Canyon Gallup/Basin Dakota				
⁴ Property Code	Property Name			³ Property Name ⁶ Well Number					
7460					UAN 28-5 UNIT 54E			54E	
'OGRIÐ No.	*Operator Name BURLINGTON RESOURCES OIL & GAS						levation		
14538		ROHLI	NG TUN	RESOURCES	OIL & GAS	COMPANY		€	5544
				¹⁰ Surface	Location		=		
UL or lot no. Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/Hes	t lane	County
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UL or lot no. Section	Townshap	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/Wes	t line	County
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San Juan 28-5 Unit #54E

Burlington Resources Oil & Gas

Mindrara Payada CIALLUP RECOMPLETION

UnitC-Sec20-T28N-R05W

Lat: 36° 39′ 03″

Long: 107° 23′ 09″

- Comply with all BLM, NMOCD, & BR rules & regulations.
- Always Hold Safety Meetings. Place fire and safety equipment in strategic locations.
- Spot and fill 3 frac tanks with 2% KCl water.
- Use drill gas for all operations.
 - (1) 4-1/2" CIBP required for 4-1/2" 11.6# K-55 pipe.
- (1) 4-1/2" Model 'EA' Retreivamatic Packer
- 8000' 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 (179 MCFD). Cumulative production is 987 MMCF from the Dakota. Gallup/Niebrara pay will be added and stimulated in one stage with a 70 Quality foam and 30# linear gel frac. Foam is being used to keep damaging fluids off the formation and assist in flowback. Controlled flowback will be used to insure propant placement in the frac.

NOTE: Dakota perfs open 7712' - 7902'

- 1. 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.
- 2. TOOH with 1-1/2" 2.9# J-55 tubing from 7891' (255 joints) and LD. Rabbit and strap tubing. Visually inspect tubing, note any scale in tubing. Replace any bad tubing.
- 3. RU wireline unit. Run gauge ring to 7390'. Wireline set 4-1/2" CIBP at 7380' to isolate the Dakota, POOH.
- 4. PU 4-1/2" retreivable packer with 2 joints of 2-7/8" BTC tubing. Set packer at 60'.
- 5. Pressure test 4-1/2" casing to **3800** psi for 10 minutes. If casing fails, TIH with 4-1/2" packer an hunt hole(s). Engineering will provide squeeze design if required. TOOH
- 6. Spot **350** gallons 15% **Acetic acid** (w/ 2 gal/1000 corrosion inhibitor) at **7300**'. TOOH, standing 2-3/8" back. (If separate trip is required, skip spotting acid.)
- 7. RU wireline under packoff. Perforate (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.

6910', 6920', 6930', 6940', 6950', 6970', 7010', 7020', 7030', 7040', 7050', 7060', 7070', 7080', 7090', 7100', 7110', 7150', 7160', 7170', 7180', 7200', 7210', 7220', 7230', 7240', 7250', 7260', 7270', 7280', 7300', 7310', 7320', 7330' (34 total holes, 390' gross interval)

- 8. Set packer at 60'. RU stimulation company. Pressure test surface lines to 4800 psi. Max surface pressure = 3800 psi. Prepare to break down w/1000 gallons 15% Acetic acid (w/2 gal/1000 corrosion inhibitor) and 68 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 w/ 303,000# 20/40 Arizona sand in 93,895 gal 70 Quality foam with 30# Linear gel. See attached frac schedule for details. (2 frac tanks 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	10,000	3,000	0
2.0 ppg	10,000	3,000	20,000
3.0 ppg	20,000	6,000	60,000
4.0 ppg	22,000	6,600	88,000
5.0 ppg	27,000	8,100	135,000
Flush	4,895	1,468	0
Totals	93,895	28,168	303,000

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

	5
* 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)
* 0.4 mCi lr-192	(Radioactive tracer)
* 0.3 mCi Sb-124	(Radioactive tracer)
* 0.3 mCi Sc-46	(Radioactive tracer)

- 12. Shut well in after frac and record ISIP. RD stimulation company. Install flowback line above frac valve. Wait for 30 min before comencing 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.
- 13. RD flowback equipment. TOOH
- 14. TIH w/ 3-7/8" bit on 2-3/8" tubing and clean out to CIBP at 7380'. Pull up above perfs, obtain pitot gauge on Gallup. Drill up CIBP, clean out to PBTD at 7954'. Clean up to minimal water and trace to no sand. Obtain pitot gauge. TOOH: CIBP WILL REMAIN FOR A 3 MONTH PRODUCTION TEST
- 15. RU wireline unit. Run afterfrac and perf efficiency logs.
- 16. 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 @ 7889'.

7300°

17. ND BOP, NU WH. Pump off expendable check and flow well up tubing to ensure check pumped off. Obtain final pitot gauge. RD & release rig to next location.

Recommended:

Production Engineer

11-10-97

Concur:

Basin Opportunities Team Leader

Approved:

Drilling Superintendent

Vendors:

Wireline

Basin

327-5244

Stimulation RA Tagging

Dowell Pro-Technics

325-5096 326-7133

Production Engineer:

Bobby Goodwin

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

Pertinent Data Sheet - San Juan 28-5 Unit # 54E C 20 T28N R05W

Location: 1190' FNL & 1495' FWL, Unit C, Section 20, T28N, R05W, Rio Arriba County, New Mexico

Field: Basin Dakota

Spud Date: 9/1/85

Elevation:

6644' GL

6656' KB

TD: 7961'

PBTD: 7954'

Lease#: SF-080516A

DP #: 54329A

Dakota Niobrara Gaune **GWI:** 69.61% NRI: 58.90% **GWI:** 100.0% NRI: 82.50%

Prop#: 007970400

Casing Record:

Hole Size	Csg Size	Wt. & Grade	Depth Set	Cement	Cement (Top)
12-1/4"	9-5/8"	32.3# K-55	225'	125 sx	Circ 3 BBL Cmt
8-3/4"	7"	20.0# K-55	3856'	205 sx	2500' (TS)
6-1/4"	4-1/2"	11.6# N-80	7961'	340 sx	2600' (TS)
Tubing Rec	ord:			•	
	1-1/2"	2.9# J-55	7891'	255 Jts	

Formation Tops:

Ojo Alamo:	2774'	Point Lookout	5656'
Kirtland Shale:	2925'	Mancos	6156'
Fruitland:	3235'	Gallup	6680'
Pictured Cliffs:	3488'	Greenhorn	7595'
Chacra	4452'	Graneros	7655'
Mesaverde	5245'	Dakota	7795'
Menefee	5305'		

<u>Logging Record:</u> Induction Log, Density-Nuetron Log, Gamma -Ray Log, Temperature Survey Log

Stimulation: Perfed DK (Dakota) w/1 spf @ 7712', 7716', 7802', 7806', 7810', 7814', 7818', 7850', 7853', 7855', 7871', 7874', 7877', 7880', 7882', 7891', 7894', 7897', 7900', 7902'. Total 20 holes. Fraced w/122,000# Arizona 20/40 sand in 100,490 gal water with 50# J-18 (Guar Gum) per 1000 gal.

Workover History: None

<u>Production History:</u> This well is booked for 1.57 BCF EUR. Remaining reserves are 582 MMCF and the well is producing 179 MCFD.

Pipeline: El Paso Natural Gas - Gas

Gaint Industries - Oil

San Juan 28-5 Unit #54E

Basin Dakota/ Niobrara Payadd GALLUP RECOMPLETION

Unit C, Section 20, T28N, R05W Rio Arriba County, NM Elevation: •6644' GL

> LAT: 36 39' 03" LONG: 107 23' 09" date spud: 09-01-85

