# UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

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Ū	OF	LAND	M	Anagement	RECEIV

	ices and Reports on Wel	0.01.1.20	
	SILE	$\frac{c-2}{5}$	Lease Number
. Type of Well GAS	070 F		SF-079392 If Indian, All. or Tribe Name
		7.	Unit Agreement Name
. Name of Operator		_	onre ngreement name
BURLINGTON RESOURCES OIL	& GAS COMPANY	8.	San Juan 27-5 Unit Well Name & Number
. Address & Phone No. of Operat	or	_	San Juan 27-5 U #138E
PO Box 4289, Farmington, NM	87499 (505) 326-9700	9.	<b>API Well No.</b> 30-039-23758
800'FSL, 1650'FEL, Sec. 19, T-			Field and Pool WC:Cereza Canyon Gall Basin Dakota County and State
		11.	Rio Arriba Co, NM
2. CHECK APPROPRIATE BOX TO INT	DICATE NATURE OF NOTICE	Z. REPORT. OTHER	ПАТА
Type of Submission	Type of A		DAIA
$_{ m X}_{ m }$ Notice of Intent	Abandonment	Change of Pla	
Cubesment Beneut	_X_ Recompletion _	New Construct	
Subsequent Report	Plugging Back Casing Repair	Non-Routine : Water Shut o	_
Final Abandonment	Altering Casing Other -	<del></del>	
3. Describe Proposed or Compl	eted Operations		
It is intended to add the attached procedure set for approximate	-	A cast iron bri g purposes. The	dge plug will be well will then
It is intended to add the attached procedure set for approximate	Gallup formation to the and wellbore diagram. ely 90 days for testin	A cast iron bri g purposes. The	dge plug will be well will then
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Oistrict I PO Box 1980, Hobbs, NM 88241-1980

State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 ised February 21, 1994 Instructions on back

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

OIL CONSERVATION DIVISION State Lease - 4 Copies
Fee Lease - 3 Copies PO Box 2088

Fee Lease - 3 Copies

District III 1000 R10 Brazos Rd., Aztec, NM 87410

Santa Fe. NM 87504-2088 97 DES-2 PM 1:39

AMENDED REPORT

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

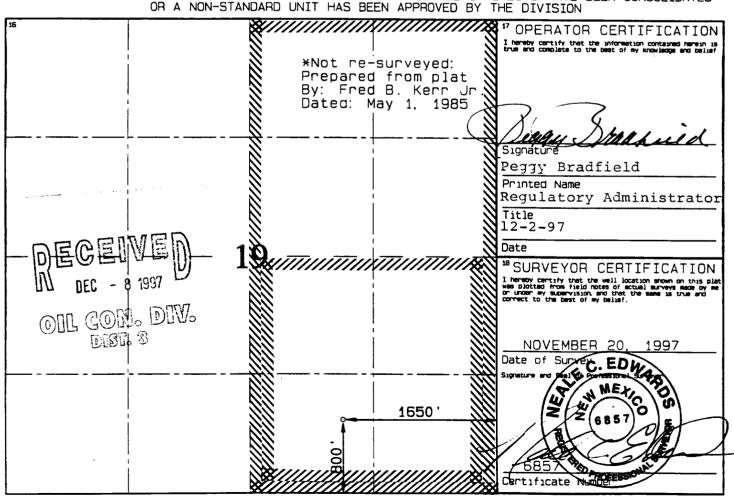
070 FALLINGTON, NIA WELL LOCATION AND ACREAGE DEDICATION PLAT

'API Number	²Pool Code	Pool Name	
30-039-23758	96766/71599	WC:Cereza Canyon Gallup/Bas	in Dakota
*Property Code		roperty Name	*Well Number
7454	SAN JU	AN 27-5 UNIT	138E
'OGRID No.	*Op	perator Name	*Elevation
14538	BURLINGTON RESOU	RCES OIL & GAS COMPANY	6603 ·

<sup>10</sup> Surface Location UL or lot no. Section Township Lot Idn Feet from the North/South line Feet from the East/West line RIO 0 19 27N 5W 800 South 1650 East ARRIBA <sup>11</sup>Bottom Hole Location If Different From Surface UL or lot no. Section Lot Idn Feet from the North/South line Fast/West line County

Dedicated Acres
Gal - 160 <sup>13</sup>Joint or Infill <sup>54</sup> Commolidation Code <sup>15</sup> Order No. DK E/320

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



#### San Juan 27-5 Unit #138E

Burlington Resources Oil & Gas

## Niebrara Payado GALLUP RECOMPLETION

#### UnitO-Sec19-T27N-R05W

Lat: 36° 39′ 17′′ Long: 107° 23′ 46′′

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
- 7900' 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 (150 MCFD). Cumulative production is 818 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 7560' - 7748'

- 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 7707' (238 joints) and LD. Rabbit and strap tubing. Visually inspect tubing, note any scale. Replace any bad tubing.
- 3. RU wireline unit. Run gauge ring to 7500'. Wireline set 4-1/2" CIBP at 7200' 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 and hunt hole(s). Engineering will provide squeeze design if required. TOOH.

#### First Stage: (First Day)

- 6. Spot **350** gallons 15% **Acetic acid** (w/ 2 gal/1000 corrosion inhibitor) at **7150**'. TOOH, standing 2-3/8" back. (If separate trip is required, skip spotting acid.)
- 7. 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.

6965', 6970', 6975', 6980', 6985', 6990', 6995', 7005', 7010', 7015', 7020', 7025', 7030',

7035', 7040', 7045', 7050', 7055', 7070', 7075', 7080', 7085', 7090', 7095', 7115', 7119',

7123', 7127', 7131', 7135', 7139', 7143', 7147', 7151'

(34 total holes, 195' 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 60 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/ 145,000# 20/40 Arizona sand in 54,775 gal 70 Quality foam with 30# Linear gel. See attached frac schedule for details. (2 frac tanks needed)

	Foam Volume	Gel Volume	Sand Volume
<u>Stage</u>	(gals)	(gals)	<u>(lbs)</u>
Pad	10,000	3,000	0
2.0 ppg	5,000	1,500	10,000
3.0 ppg	15,000	4,500	45,000
4.0 ppg	10,000	3,000	40,000
5.0 ppg	10,000	3,000	50,000
Flush	4,775	1,433	0
Totals	54,775	16,433	145,000

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#	(Bactericide 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 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 6950' 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.

6750', 6755', 6760', 6765', 6770', 6775', 6780', 6785', 6790', 6795', 6800', 6810', 6815', 6820', 6825', 6830', 6835', 6840', 6845', 6850', 6855', 6860', 6870', 6874', 6878', 6882', 6886', 6890', 6894', 6898', 6902', 6906', 6910'
(33 total holes, 472' 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 36 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 57,114 gal 70 Quality foam with 30# Linear gel. See attached frac schedule for details. (2 frac tanks needed)

	Foam Volume	Gel Volume	Sand Volume
<u>Stage</u>	<u>(gals)</u>	(gals)	<u>(lbs)</u>
Pad	10,000	3,000	0
2.0 ppg	5,000	1,500	10,000
3.0 ppg	15,000	4,500	45,000
4.0 ppg	12,500	3,750	50,000
5.0 ppg	10,000	3,000	50,000
Flush	4,614	1,384	0
Totals	57,114	17,134	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#	(Bactericide 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)

- 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.
- 21. RD flowback equipment. TOOH.
- 22. TIH w/ 3-7/8" bit on 2-3/8" tubing and clean out to CIBP at 6950'. Pull up above perfs, obtain pitot gauge. Drill up CIBP, clean out to 7200'. Clean up to minimal water and trace to no sand. Obtain pitot gauge on Gallup.
- 23. Drill up CIBP, clean out to PBTD at 7751'. Clean up to minimal water and trace to no sand.

  Ghtain final pitot gauge. TOOH, laying down workstring: CIBP WILL REMAIN FOR 3 MONTHS

  FOR PRODUCTION TEST
- 24. RU wireline unit. Run afterfrac and perf efficiency logs from 6700' to 7750'.
- 25. Run production tubing string as follows: expendable check, one joint 1-1/2" tubing, 1.78" seating nipple, and remaining tubing. Land tubing @ 7710".
- 26. 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 Engineer

Concur:

Basin Opportunities Team Leader

Approved:

Drilling Superintendent

Vendors:

Wireline

Basin

327-5244

Stimulation

Dowell

325-5096

RA Tagging

Pro-Technics

326-7133

Production Engineer:

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

#### Pertinent Data Sheet - San Juan 27-5 Unit # 138E O 19 T27N R05W

Location: 800' FSL & 1650' FEL, Unit O, Section 19, T27N, R05W, Rio Arriba County, New Mexico

Field: Basin Dakota

Elevation:

6603' GL

<u>TD:</u>

7767'

6615' KB

**PBTD:** 7751'

Lease#: SF-079392

**DP #:** 54075A

Spud Date: 7/5/85

Completion Date: 8/23/85

Dakota Niobrara **GWI:** 55.02% NRI: 46.03%

GWI: 73.61% NRI: 60.73%

Prop#: 007972600

#### **Casing Record:**

<b>Hole Size</b>	Csg Size	Wt. & Grade	Depth Set	Cement	Cement (Top)
12-1/4"	9-5/8"	36.0# K-55	227'	110 sx	Circ 5 BBL Cmt
8-3/4"	7"	20.0# K-55	3703'	195 sx	3100'
6-1/4"	4-1/2"	10.5# K-55	6500'	Total of	
6-1/4"	4-1/2'	11.6# K-55	7760'	350 sx	2500'

#### Marker Joint at 6825'

**Tubing Record:** 

1-1/2"

2.9# J-55

7760'

238 Jts

#### Formation Tops:

Ojo Alamo:	2704'	Point Lookout	5497'
Kirtland Shale:	2840'	Mancos	5997'
Fruitland:	3128'	Gallup	6570'
Pictured Cliffs:	3350'	Greenhorn	7450'
Chacra	4290'	Graneros	7507'
Mesaverde	4968'	Dakota	7627'
Menefee	5114'		

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

**Stimulation:** Perfed Dakota w/1 spf @ 7560', 7564', 7572', 7586', 7589', 7592', 7660', 7662', 7665', 7668', 7671', 7674', 7677', 7680', 7700', 7703', 7714', 7718', 7722', 7726', 7740', 7744', 7748'. Total 23 holes. Fraced w/166,000# 20/40 Arizona sand in 121,020 gal 50# guar gum and slickwater pad and flush.

Workover History: None

Production History: Dakota in this well has an EUR of 1.655 BCF and is producing at 148 MCFD.

Pipeline: Williams Field Service - Gas

Giant - Oil/ Condensate

### San Juan 28-5 Unit #138E

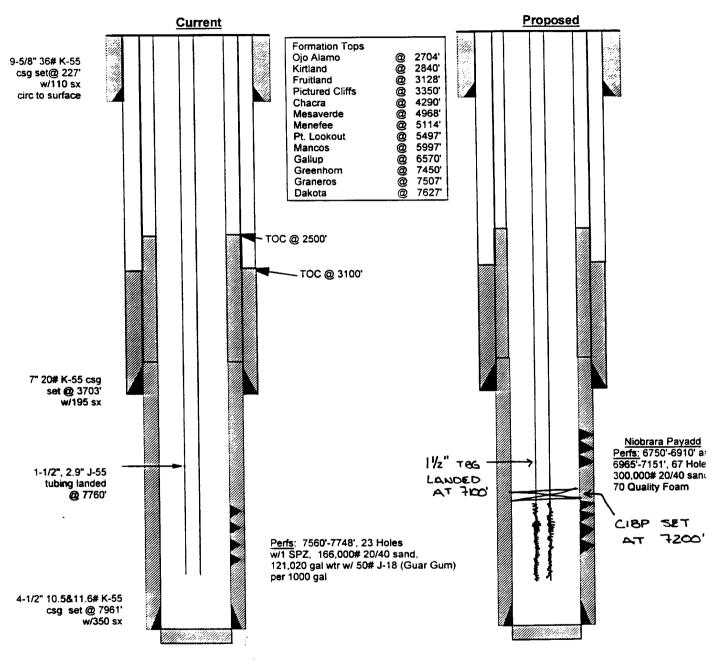
Basin Dakota/ Niebrara Payadd CALLUP

Unit O, Section 19, T27N, R05W

RECOMPLETION

Rio Arriba County, NM
Elevation: \*6603' GL

LAT: 36 39' 17" LONG: 107 23' 46" date spud: 07-05-85



TD: 7767' PBTD: 7751' TD: 7767' PBTD: 7751'