submitted in lieu of Form 3160-5

UNITED STATES

DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

Sundry Not	ices and Reports on Well	rya,		
	Gir in the	The state of the s	5.	Lease Number SF-047017A
1. Type of Well GAS	61211		6.	If Indian, All. or Tribe Name
		_	7.	Unit Agreement Name
2. Name of Operator BURLINGTON RESOURCES	& GAS COMPANY			
		_	8.	Well Name & Number
3. Address & Phone No. of Opera PO Box 4289, Farmington, NM			9.	Angel Peak #27 API Well No.
4. Location of Well, Footage, S 1762'FSL, 973'FEL, Sec. 11, 7		-	10.	30-045-25699 Field and Pool Basin Fruitland Coa
1702 150, 975 160, 500.11, 1	20 11, 11 11, 11111		11.	Armenta Gallup County and State San Juan Co, NM
12. CHECK APPROPRIATE BOX TO IN			OTHER	DATA
Type of Submission	Type of A			
Type of Submission _X_ Notice of Intent Subsequent Report Final Abandonment	Type of A Abandonment _X Recompletion _X_ Plugging Back Casing Repair Altering Casing Other -	Change of New Con Non-Rou Water S	struc tine hut o	tion Fracturing
X Notice of Intent Subsequent Report Final Abandonment	Abandonment X Recompletion X Plugging Back Casing Repair Altering Casing Other -	Change of New Con Non-Rou Water S	struc tine hut o	tion Fracturing ff
X_ Notice of Intent Subsequent Report Final Abandonment 13. Describe Proposed or Comp It is intended to recomplaceording to the	Abandonment X Recompletion X Plugging Back Casing Repair Altering Casing Other -	Change New Con Non-Rou Water S Convers the Fruit wellbore di	structine hut of ion to	tion Fracturing ff o Injection Coal formation
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District I State of New Mexico PO Box 1980. Hobbs, NM 88241-1980 Revised February 2. Energy, Minerals & Natural Resources Depart Instructions c District II PO Drawer OD, Artesia, NM 88211-0719 Submit to Appropriate District OIL CONSERVATION DIVISION State Lease - 4 Fee Lease - 3 PO Box 2088 0000 1000 Rio Brazos Rd., Aztec, NM 87410 Santa Fe. NM 87504-2088 AMENDED RE 97 101 25 FN 2:25 District IV PO Box 2088, Santa Fe, NM 87504-2088 WELL LOCATION AND ACREAGE DEDICATION PLAT API Number Pool Name *Pool Code 30-045-25699 Gallum Well Numbe 71629/2290 Fruitland Coal/Armenta Property Code ³Property Name ANGEL PEAK 27 6787 Elevation OGRID No. *Operator Name 5730 BURLINGTON RESOURCES OIL & GAS COMPANY 14538 10 Surface Location UL or lot no. Feet from the East/Hest line 28N 973 East SAN Ι 11 11W 1762 South 11 Bottom Hole Location If Different From Surface COL UL or lot no. Section North/South line East/Nest line Feet from the Fr t-AII-257.48 Joint or Infill Gal-24 NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLID/ OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION "OPERATOR CERTIFICA" I hereby contain that the information contained a true and complete to the best of my smoothedge at *Not re-surveyed: Prepared from plat By: Michael Daly Dated 23 February. 1983 信GEIN Peggy Bradfield Printed Name Regulatory Administr 1997 Title 11-10-97 Date DIST. B SURVEYOR CERTIFICAT I hereby cartify that the well location shows was plotted from field notes of actual surveys or under my supervision, and that the same is correct to the best of my belief. 973' NOVEMBER 4, 1997 Date of Survey C. EDW 762

ANGEL PEAK #27 FRTC Recompletion Procedure I 11 28 11

San Juan County, N.M. Lat-Long: 36.674194 - 107.966934

PROJECT SUMMARY: Plugback this 1983 vintage depleted Gallup well to the FRTC and foam frac.

- Comply to all NMOCD, BLM, and MOI rules and regulations. MOL and RU completion rig. NU 7-1/16" 3000 psi BOP w/flow tee and stripping head. Test operation of rams. NU blooie line and 2-7/8" relief line.
- 2. Set blanking plug in S.N. of 2-3/8" tbg @ 5859' and test to 3000 psi. TOH w/2-3/8" tbg. Run 4-1/2" gauge ring on 2-3/8" tbg to 5350'. TOH. Run 4-1/2" cmt ret on 2-3/8" tbg and set @ 5350'. Sq Gallup perfs w/120 sx cmt. This will fill inside 4-1/2" csg from bottom perf to cmt retainer w/100% excess cmt. Sting out of ret and spot 5 sx on top cmt ret.
- 3. PU tbg and spot 15 sx cmt 5155'-5055'. This will fill inside csg 50' above and below top 4-1/2" liner w/50% excess cmt.
- 4. PU tbg and spot 20 sx cmt 3460'-3560'. This will fill inside the csg 50' above and below top of Mesaverde w/50% excess. Spot a 15 sx cmt balanced plug w/top @ 1900'. TOH.
- 5. MI Blue Jet. Run an advanced integrated data processed GSL neutron log 1900'-1300' and correlate to attached open hole log. Hot-shot log to Mike Pippin (326-9848) so perfs can be picked. Run 7" pkr on 2 jts 2-7/8" 4.7# N-80 tbg and pressure test to 3500 psi. TIH w/2-3/8" tbg open ended and spot 250 gal 7-1/2% HCL acid 1815'-1400'
- 6. Using GSL log, Perf about 50' of FRTC w/2 spf from about 1816' to 1400'. Perf using 3-1/8" hollow steel carrier guns loaded w/Owen HSC 13 gm. charges phased at 180 degrees. Average perf dia. = 0.48". Average penetration is 18" in Berea.
- 7. Fill 3 400 bbl. frac tanks with 1% KCL water. If necessary, filter all water to 25 microns. Two tanks are for gel and one tank for breakdown water. Usable gel water required for frac is 448 bbls.
- 8. TIH w/7" pkr on 2-3/8" tbg and set @ 1300'. W/1000 psi on backside, breakdown FRTC perfs w/2000 gal. 15% HCL acid and 150% excess 7/8" 1.3 sp gr RCN perf balls. (1 gal/1000 corrosion inhibitor). Max. pressure is 4150 psi. Lower pkr to 1820' to knock off perf balls. TOH.
- 9. Run 7" pkr on 2 jts 3-1/2" N-80 tbg w/shaved collars to protect wellhead. Frac FRTC down csg w/62,000 gals. of 70 quality foam using 30# gel as the base fluid and 120,000# 20/40 Arizona sand. Pump at 70 BPM. Monitor bottomhole and surface treating pressures, rate, foam quality, and sand concentration with computer van. Sand to be tagged w/ 3 RA isotope tracers. Max. pressure is 3500 psi and estimated treating pressure is 3200 psi. Treat per the following schedule:

	Foam Vol.	Gel Vol.	Sand Vol.
Stage	(Gals.)	(Gals.)	<u>(lbs.)</u>
Pad	12,000	3,600	
1.0 ppg	10,000	3,000	10,000
2.0 ppg	20,000	6,000	40,000
3.0 ppg	10,000	3,000	30,000
4.0 ppg	10,000	3,000	40,000
Flush	(849)	(255)	0
Totals	62,000	18,600	120,000#

Treat frac fluid w/the following additives per 1000 gallons:

* 30# J-48

(Guar Gel mix in full tank - 16,000 gal)

* 1.0 gal. Aqua Flow

(Non-ionic Surfactant mix in full tank)

* 1.0# GVW-3

(Enzyme Breaker mix on fly)

* 1.0# B - 5

(Breaker mix on fly)

* 3.0 gal Fracfoam I

(Foamer mix on fly)

* 0.38# FracCide 20

(Bacteriacide mix on full tank)

- 10. Open well through choke manifold and monitor flow. Flow @ 20 bbl/hr. or less, if sand is observed. Take pitot gauges when possible. TOH w/pkr.
- 11. TIH w/notched collar on 2-3/8" tbg and C.O. to 1900' w/air/mist. Monitor gas and water returns and <u>Take pitot gauges when possible.</u>
- 12. When wellbore is sufficiently clean, TOH and run after frac gamma-ray log and perf eff log from 1900'-1300'.
- 13. TIH w/2-3/8" 4.7# J-55 EUE tbg w/standard seating nipple one joint off bottom and again cleanout to 1900'. When wellbore is sufficiently clean, land tbg @ 1750' KB. <u>Take final</u> water and gas samples and rates.
- 14. ND BOP and NU wellhead and tree. Rig down and release rig.

Recommended

Production Engineer

Approved:

Drilling Superintendent

Approved

Team Leader

VENDORS:

Wireline:

Blue Jet

325-5584

Fracturing: RA Tag:

BJ Pro-Technics 327-6222 326-7133

PMP

Pertinent Data Sheet - ANGEL PEAK #27 FRTC

111 28 11

Location: 1762' FSL & 973' FEL, Unit I, Section 11, T28N, R11W, San Juan County, New Mexico

Field: Basin Fruitland Coal

Elevation:

5730' GL

TD: **PBTD:** 6043'

6075'

KB=12'

Spud Date: 5/26/83

Lease#: Fed. SF-047017A

DP#: 32485B **GWI:** 100% NRI: 87.50%

Prop#:

Casing Record:

Hole Size	Csg Size	Wt. & Grade	Depth Set	Cement	Cement (Top)
12-1/4"	9-5/8"	36# K-55	319'	319 cf	Circ Cmt
8-3/4"	7"	23# K-55	5310'	1410 cf	Circ Cmt
		Stage Tool @	1 981 '	1065 cf	Circ 15 BBL Cmt
6-1/4"	4-1/2"	11.6# K-55	5105'-6075'	186 cf	Circ 75 BBL Cmt
Tubing Rec	<u>ord:</u> 2-3/8"	4.7# J-55	5922'	187 Jt	
		S.N. @	3 5 859 ′		

Formation Tops:

Oio Alamo:	600'	Chacra	2410'
Kirtland Shale:	830	Mesaverde	3510'
Fruitland:	1350	Point Lookout	4200'
Pictured Cliffs:	1820'	Gallup	5400'

Logging Record: Induction Log, Density-Nuetron Log, Temp (Gallup), CBL (4-1/2" csg).

Stimulation: Perfed lower Gallup w/1 spf @ 5870', 78', 88', 5900', 10', 20', 30', 40', 50', 63', 74', 84', 94', 6004', 14', 25', 34'. Total 17 holes. Fraced w/80,000# sand in 75Q foam. Perfed upper Gallup w/1 spf @ 5415', 33', 50', 68', 88', 5515', 36', 55', 74', 94', 5615', 36', 48', 58', 66', 80', 92', 5702', 121', 21', 34', 42', 54'. Total 23 holes. Fraced w/180,000# sand in 70Q foam.

Workover History: 1/26/94: TOH w/tbg & rods, cleaned tbg, reran tbg, pressure tested - OK, did not rerun rods.

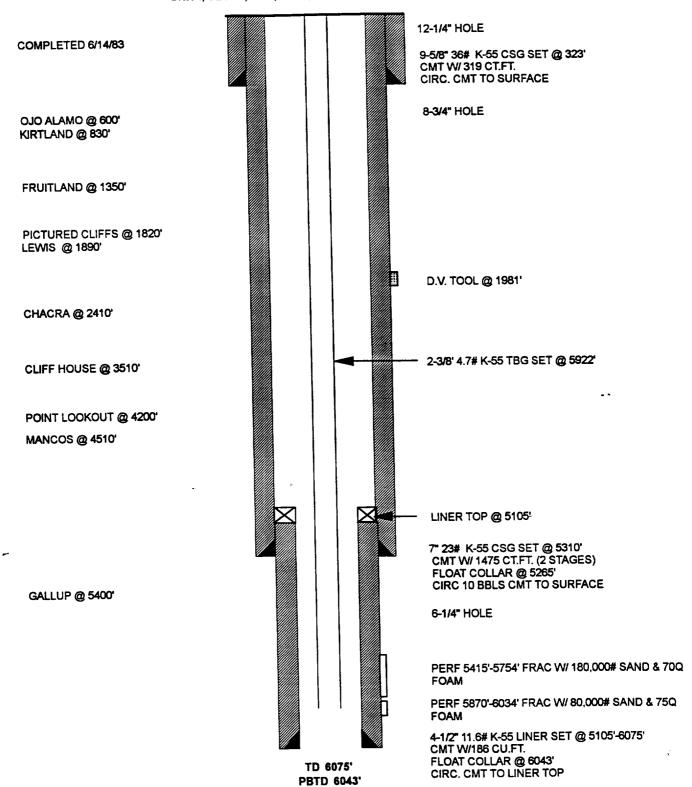
MMCF 10 Production History: Gallup cum = 8 MANOF & 246,658 BD. No Gallup reserves are currently booked. See attached Gallup production curve. This well is on the Rudy-Zachry compression system.

Pipeline: BROG



AS OF 6/6/94 ARMENTA GALLUP

UNIT I, SEC 11,T28N, R11W, SAN JUAN COUNTY, NM





United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Farmington District Office 1235 La Plata Highway Farmington, New Mexico 87401

IN REPLY REFER TO:

Attachment to Notice of

Intention to Workover

Re: Plug Back and Recomplete

Well: 27 Angel Peak

CONDITIONS OF APPROVAL

- 1. Move the Mesaverde cement plug from 3460'-3560' to 3444'-3344' inside the 7.0" casing. (28 sks. cement -- 100' plus 50 linear feet excess) (Mesaverde top @ 3394')
- 2. Place a cement plug from 2460' to 2360' inside the 7.0" casing plus 50 linear feet excess cement. (28 sks. cement) (top of Chacra @ 2410')
- 3. **Mike Flaniken** with the Farmington District Office is to be notified at least 24 hours before the workover operations commence (505) 599-8907.