District 1 PO Box 1980, Hobbs, NM 88241-1980

District II P.O Drawer DD, Artesia, NM 88211-0719

State of New Mexico

Energy, Minerals, & Natural Resources Department

Form C-104 Revised February 21, 1994

Instructions on back Submit to Appropriate District Office

OIL CONSERVATION DIVISION

District III	Antec NM 87	410	OIL	CONSERVA DO Do		ISION		uomit u	o App	Topriate i	5 Copies
District IV Santa Fe, NM 8						88			ПА	MMENT	DED REPORT
PO Box 2088, Santa		QUEST FOR		-			TO TRA	NSPO			
	Operator Name and Address						² OGRID Number				
		Resources O	il & Gas				14538				
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	4 API N 30-045		F		l Name Z. P.C. (G	Name ^ Pool Code Z P.C. (GAS) 77200					
	¹ Proper	ty Code		* Prope	rty Name	y Name ' Well Number					
	007			JOHNSON			#2				
II. 10 Surfa	ce Loca	tion									
UI or lot no.	Section 21	Township 027N	Range 010W	Lot.Idn	Feet from the 1625	North/South L		om the 90	East/\	West Line E	County SAN JUAN
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knowledge and	belief.										
Signature:	Signature: Chaw Alogs				Approved by: Frank T. Chavez						
Printed Name:				Title:	Distric	t Superv	isor				
Title: From intrinst. Associate					Approved Date: July 11, 1996						
Date: 7/11/36			Phone	326-9700							
15 If this is a cha		ator fill in the OGRID			ll perator		<u> </u>				
14538 Meridian Oil Production Previous Operator Signature Printed Name Title Date											

Dolores Diaz

Production Associate

7/11/96

UNITED STATES DEPARTMENT OF THE INTERIOR

DEFARIMENT OF THE INTERIOR	7
BUREAU OF LAND MANAGEMENT	/ RECEIVED
Sundry Notices and Reports on Wells	07 COT 23 PM 2: 21
1. Type of Well GAS	5. Lease Number SF-077386A MA 6. 1f Indian, All. or Tribe Name
2. Name of Operator	7. Unit Agreement Name
BURLINGTON RESOURCES OIL & GAS COMPANY	o wall Name & Number
3. Address & Phone No. of Operator	8. Well Name & Number Johnson #2
PO Box 4289, Farmington, NM 87499 (505) 326-9700	9. API Well No. 30-045-06366
4. Location of Well, Footage, Sec., T, R, M 1625'FSL, 1090'FEL, Sec. 21, T-27-N, R-10-W, NMPM	10. Field and Pool Basin Fruitland Coal Fulcher Kutz PC
	11. County and State San Juan Co, NM
Recompletion New Subsequent Report X Plugging Back Nor	ange of Plans w Construction n-Routine Fracturing ter Shut off nversion to Injection
It is intended to add pay to the Fruitland Coal format according to the attached procedure and wellbo Cliffs formation will be plugged and abandoned	re diagram. The Pictured
	DEGETVED NOV - 5 1997
	OU COMEDIV.
14. I hereby certify that the foregoing is true and correctly signed (PMPOpps) Title Regulatory (This space for Federal or State Office use)	Administrator Date 10/27/97
ADDROVED BY Title	Date NOV 03 1997

APPROVED BY

CONDITION OF APPROVAL, if any:

Date

____Title __

JOHNSON #2 FRTC Workover Procedure I 21 27 10

San Juan County, N.M. Lat-Long: 36-33.24 - 107-53.55

PROJECT SUMMARY: Squeeze off the depleted PC and foam frac the FRTC in this 1953 vintage PC well that was recompleted to a commingled PC-FRTC in 1990.

- 1. Comply to all NMOCD, BLM, and BROG rules and regulations. MOL and RU completion rig. NU 7-1/16" 3000 psi BOP w/flow tee and stripping head. NU blooie line and 2-7/8" relief line.
- 2. TOH w/58 jts 2-3/8" tbg.
- 3. Run 4-3/4" bit on 2-3/8" tbg and drill out CIBP @ 1850' w/air/mist. TOH.
- 4. Set cmt ret @ 1856' on wireline using collars from attached neuton log. Run cmt ret stinger on 2-3/8" tbg to just above cmt ret (1855'). Load hole w/water. Sting into ret test position and test tbg to 3000 psi. Sting into cmt ret and while monitoring csg, est rate into PC open hole. If no communication exists w/FRTC, sq PC open hole w/20 sx cl "B" cmt. This will fill the open hole w/over 100% excess cmt. Sting out of ret and reverse out cmt from the top of the cmt ret. TOH.
- 5. Run CBL from 1856' to top of cmt and coorelate to attached neutron log.
- Spot and fill 3-400 bbl. frac tanks w/1% KCL water. If necessary, filter all water to 25
 microns. Two tanks are for gel and one tank for breakdown water. Usable water required
 for frac is 503 bbls.
- 7. If cmt bond is OK, perf additional FRTC w/4 spf @ 1856'-50', 1734'-30', 1643'-36', 1603'-1600', 1532'-30'. Total 88 (additional) holes. 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.
- 8. Run straddle pkr w/4' treating interval on 2-3/8" tbg and breakdown all perfs w/2000 gai 15% HCL acid. Max pressure is 4000 psi. TOH.

All acid on this well to contain the following additives per 1000 gal:

2 gal CI-22

corrosion inhibitor

5 gal Ferrotrol-300L

iron control

1 gal Flo-back 20

Surfactant

0.5 gal Clay Master-5C

clay control

- 9. TIH w/5-1/2" pkr on 3-1/2" 9.3# N-80 w/shaved collars (4.25" O.D. 2.992" I.D.) rental frac string and set @ 1400'. (Run 2 jts 2-7/8" N-80 tbg above pkr). Pressure to 300 psi on annulus and prepare to frac.
- 10. Fracture treat FRTC down frac string w/70,000 gals. of 70 quality foam using 30# gel as the base fluid and 130,000# 20/40 Arizona sand. Pump at 45 BPM. Monitor bottomhole and surface treating pressures, rate, foam quality, and sand concentration with computer van. Sand to be tagged w/ 3 RA tracers. Max. pressure is 5000 psi and estimated treating pressure is 3500 psi. Treat per the following schedule:

	Foam Vol.	Gel Vol.	Sand Vol.	
Stage	(Gals.)	(Gals.)	<u>(lbs.)</u>	
Pad	15,000	4,500		
1.0 ppg	15,000	4,500	15,000	
2.0 ppg	15,000	4,500	30,000	
3.0 ppg	15,000	4,500	45,000	
4.0 ppg	10,000	3,000	40,000	
Flush	(511)	(15 <u>3</u>)	0	
Totals	70.000	21,000	130,000#	

Shut well in after frac for six hours in an attempt to allow the gel to break. 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)

* 5.0 gal Fracfoam I (Foamer mix on fly)

* 0.38# FracCide 20 (Bacteriacide mix on full tank)

11. Open well through choke manifold and monitor flow. Flow @ 20 bbl/hr, or less if sand is observed. **Take pitot gauges when possible.**

- 12. Release pkr and TOH w/frac string. TIH w/notched collar on 2-3/8" tbg and clean out to 1856' w/air/mist.
- 13. Monitor gas and water returns and take pitot gauges when possible.
- 14. When wellbore is sufficently clean, TOH and run after frac gamma-ray log and perf eff log from 1856'-1300'.
- 15. TIH w/2-3/8" tbg w/standard seating nipple one joint off bottom and again cleanout to 1856'. When wellbore is sufficiently clean, land tbg @ 1800' KB. <u>Take final water and gas samples and rates.</u>
- 16. ND BOP and NU wellhead and tree. Rig down and release rig.

Recommended: Mugan

1

Approved

rilling Superintendent

Team Leader

VENDORS:

 Wireline:
 Basin
 327-5244

 Fracturing:
 BJ
 327-6222

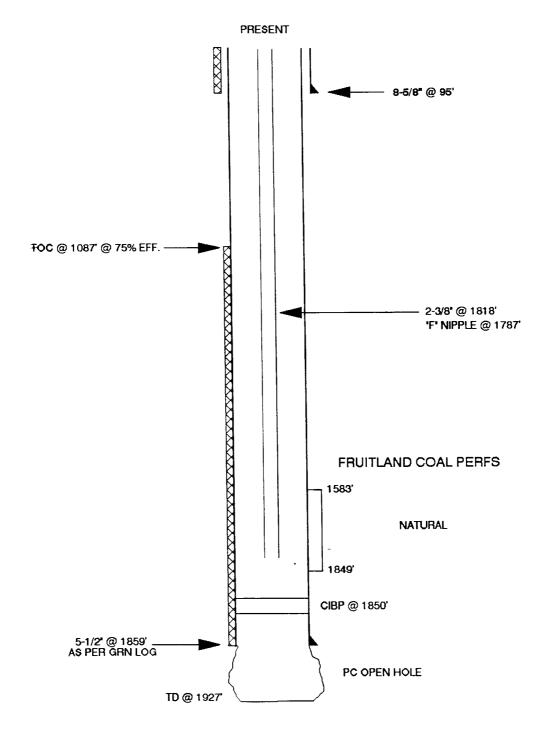
 RA Tagging:
 Pro-Technics
 326-7133

 Packers:
 Schlum.
 325-5006

PMP

JOHNSON #2 FRTC

UNIT I SECTION 21 T27N R10W SAN JUAN COUNTY, NEW MEXICO



Pertinent Data Sheet - JOHNSON #2 FRTC

1212710

Location: 1625' FSL & 1090' FEL, Unit I, Section 21, T27N, R10W, San Juan County, New Mexico

Field: Basin Fruitland Coal

Elevation:

6091' GL

TD:

1927'

KB=10'

PBTD: 1850'

Lease#: Fed. SF-077386A

DP #: 50883B

GWI: 100% NRI: 75.062% Prop#: 071293400

Casing Record:

Spud Date: 4/19/53

Hole Size	Csg Size	Wt. & Grade	Depth Set	Cement	Cement (Top)		
N/A	8-5/8"	32#	95'	90 sx	N/A		
7-7/8"	5-1/2"	17#	1859'*	150 sx	1087'@75% Eff.		
4-3/4"	Open Hole	1859'-1927'*					
	•	*Depths as per attached GRN log.					

Tubing Record:

2-3/8"

4.7# J-55

1818'

58 Jts

"F" nipple @ 1787'

Formation Tops:

Ojo Alamo:

817"

Kirtland Shale:

995'

Fruitland:

1529'

Pictured Cliffs:

1855'

Logging Record: Electric Log (53), Cased Hole Nuetron (90)

Stimulation: 5/53: Shot open hole w/160 qts SNG 1859'-1927'.

Workover History: 11/90: Perfed FRTC @ 1583'-85', 1645'-47', 1693'-1700', 1702'-06', 1735'-37', 1740'-

43', 1834'-39', 1846'-49' w/4 spf. Completed as a dual PC/FRTC.

10/23/94: Set CIBP @ 1850'. TIH w/pressure gauges

12/13/95: Pulled pressure gauges & ran 2-3/8" tbg to 1818'.

Production History: PC cum = 589 MMCF. FRTC cum = 378 MMCF. FRTC rem = 1021 MMCF w/current

production rate of 175 MCF/D. See attached production curve. This well has a wellhead compressor.

Pipeline: EPNG