

1. Type of Well

GAS

5. Lease Number

SF-078511

6. If Indian, All. or
Tribe Name

7. Unit Agreement Name

2. Name of Operator

**BURLINGTON
RESOURCES**

OIL & GAS COMPANY

3. Address & Phone No. of Operator

PO Box 4289, Farmington, NM 87499 (505) 326-9700

4. Location of Well, Footage, Sec., T, R, M

1825' FSL, 835' FWL, Sec. 20, T-31-N, R-8-W, NMPM
L8. Well Name & Number
Quinn #3399. API Well No.
30-045-2809410. Field and Pool
Basin Fruitland Coal11. County and State
San Juan Co, NM

12. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OTHER DATA

Type of Submission

Type of Action

<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment	<input type="checkbox"/> Change of Plans
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion	<input type="checkbox"/> New Construction
<input type="checkbox"/> Final Abandonment	<input type="checkbox"/> Plugging Back	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Water Shut off
	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Conversion to Injection
	<input checked="" type="checkbox"/> Other - Run liner and clean out	

13. Describe Proposed or Completed Operations

It is intended to run a 5 1/2" 15.5# K-55 lnr in the subject well according to the attached procedure and wellbore diagram. The well will then be cleaned out, production tubing run, and the well will be returned to production.

RECEIVED
MAR - 7 1997

OIL CO. REG.
DIST. 3

CO. 100-100000
MAR 10 1997

14. I hereby certify that the foregoing is true and correct.

Signed *Regina M. Kuhl* (GWL47) Title Regulatory Administrator Date 2/20/97

(This space for Federal or State Office use)

APPROVED BY _____ Title _____ Date MAR 03 1997

CONDITION OF APPROVAL, if any:

NMOCD

BURLINGTON RESOURCES

LINER RUNNING/CLEAN OUT PROCEDURE SAN JUAN DIVISION



Well Name: Quinn #339 Prepared: 1/17/96
Location: 1825' FSL X 835' FWL Revised:
Sec 20, T31N, R08W Sundry:
Field: Basin Fruitland Coal
County, State: San Juan, New Mexico
Rig: Aztec Well Service Rig #289
Contract: Exhibit C, Cost Plus Auth Cost: \$ 17,114 Tangible
AFE#: NA \$ 74,628 Intangible
Est. Days: 7 Liner running procedure Total Cost \$ 91,742

Latitude: 36 deg 52.87 mins Longitude: 107 deg 42.25 mins

Prepared: G.W. Lee 1/22/97
Drilling Engineer

Reviewed: F.A. Seidel 1/24/97
Engineering Supervisor

Approved: P.B. Bent 1/26
Drilling Superintendent

BURLINGTON RESOURCES OPERATIONAL PROCEDURES:

NO SMOKING WITHIN 150' OF ANY MAJOR FUEL SOURCE. DESIGNATED SMOKING AREAS WILL BE PROVIDED. PROTECTIVE CLOTHING MUST ALWAYS BE WORN.

REPORT ANY UNSAFE CONDITIONS/ACTIVITIES AND ACCIDENTS, REGARDLESS OF SEVERITY, TO RIG SUPERVISOR IMMEDIATELY.

CONFIDENTIAL WELL. ALL INFORMATION CONCERNING THIS WELL MAY NOT BE RELEASED WITHOUT WRITTEN PERMISSION OF BURLINGTON RESOURCES.

ALL CONTRACTORS MUST COMPLY WITH ALL LOCAL, STATE, FEDERAL, AND TRIBAL RULES AND REGULATIONS.

CONTACT RIG SUPERVISOR IMMEDIATELY IF ABNORMAL CONDITIONS ARE ENCOUNTERED.

Attachments: 1996 daily reports, Material Requisition
Original Mudlog, Current Tubing Tally

Distribution: G.W. Lee, P.W. Bent, W.S. Smithwick, R.. desCognets
D.B. Jensen, K. Midkiff, M.P. Castiglione, P&M,
Rig Supervisors File (3 Copies), Well File (Original procedure)

GEOLOGY:		Elevation:	Ground Level: 6496'
			KB: 6509'
<u>Marker</u>	<u>Depth</u>	<u>Notes</u>	
Ojo Alamo	2149'		Open Hole Interval: 223'
Kirtland	2219'		Proposed liner overlap: 100'
Fruitland	2936'	Pay Zone	
7" Casing	3129'		
TD	3352'		
Pictured Cliffs	NA		

CONFIGURATION OF TUBULARS:**CASING (Top Down):**

9-5/8", 36#, K-55 surface casing set @ 352'

7" 23# K-55 intermediate casing set @ 3129'

No liner in the well. Open hole 3129' to 3352'

TUBING (Top Down):

102 jts of 2-7/8" 6.5# J55 tubing

13.4' stator

8' gas anchor

Tubing set at: 3300'

RODS (Top Down):

Rods will be pulled and rerun with a daylight rig.

22' 1-1/4" polished rod

130 jts 7/8" polished rods

12.6' rotor

LOGGING:

Mudlogger: None

Wireline: None

DRILLING & COMPLETION INFORMATION:

The Quinn #339 was recavitated in February 1996 for 14 days. The initial gauge was 3.3 MMCFD w/a 1hr buildup of 422 psi. The coal ran heavy on flowback after surges and when a water sweep was pumped while cleaning out the fill. However, the fill cleaned up quickly (60 to 70 ft of fill could be cleaned out with no coal running in less than 4 hrs). The final gauge was 4.8 MMCFD w/ a 1hr buildup of 395 psi (365 psi in 30 mins).

Reason for clean out and running a liner: Since the recavitation, 3 pumps have been gone bad due to coal fines. A liner will be run in an attempt to reduce the coal fines and allow the tubing to be landed closer to bottom. Therefore, the clean out will consist of cleaning out the open hole, natural surging the well for 2-3 days to clean out near wellbore fines, running a liner, and re-running tubing.

PROCEDURE:

1. MIRU Cavitation Rig.
2. RU flow lines to casing, record casing & tubing pressures. flow test casing and pitot test while rigging up.
3. NU BOP's. & pressure test to 200 psi for 10 mins and 2500 psi for 30 mins using a pup joint screwed into the tubing hanger and the pipe rams.
4. RU blooie lines, and mudlogging operations and collect samples per request. RU pressure recorder on air injection line.
5. Pick up on and remove tubing hanger. POOH and visually inspect the 2-7/8" tubing for signs of corrosion, CO2 damage, etc. If tubing is in good shape and is reusable, stand back so it may be rerun as the production string. Records show 102 jts. of tubing, with a 13.4' stator and a 8' gas anchor on bottom. See attached tally sheet.
6. TIH w/ 6-1/4" bit and clean out the open hole to TD with air/mist.
7. PU into 7" and pitot test. Shut well in and monitor pressure buildup. Watch for well stabilization. This pressure will be our natural BHP. Record this data in the daily report.
8. Begin NATURAL SURGES. Shut well in for BHP build-up and record pressures. Obtain 1 hr. flow test when needed or advised by office and record information in DFW.

NOTE:**RECORD THE FOLLOWING INFORMATION IN DFW:**

- * GAUGES OF GAS AND WATER AT 15 MINS, 30 MINS, 45 MINS AND 60 MINS.
- * SURFACE SHUT IN PRESSURES AT 15 MINS, 30 MINS, 45 MINS AND 60 MINS.
- * AMOUNT OF FILL TAGGED ON EACH CLEANOUT RUN
- * CU FT COAL RECOVERED EVERY 24 HR PERIOD
- * NUMBER OF SURGES PER 24 HOUR PERIOD
- * DESCRIPTION OF RETURNS ON SURGE CYCLE

9. Clean out open hole with water sweeps and air as hole dictates. Monitor pressure recorder for pressure increases as signs of hole bridging.
10. Rotate and reciprocate the pipe at all times during clean out. Pull into 7" csg or to surface for all production tests.
11. When at an optimum point, set packer, with drill string hanging below for weight at 90 ft and fill hole with water. Nipple down BOP and old tubing head. Nipple up new tubing head (3000 psi, 7-1/16" ID head). Nipple up BOP. TOH w/ packer.
12. When the cavitation process is complete (coal production is at a minimum or pitot has stabilized) begin circulating w/ air while rotating and reciprocating (R&R) until hole is stabilized.
13. Lay down drill pipe and drill collars. Prepare to run 5-1/2" liner. The liner hanger will be a rotatable/retrievable hanger and the liner configuration will be determined by coal intervals, gas rates and wellbore stability (contact office for configuration).
14. LINER RUNNING PROCEDURE

DO NOT TAKE RISKS

EXTINGUISH ALL OPEN FLAMES

OPEN WELL THRU 2" LINES AND MANIFOLD LINES

Safe stripping pressure = Wt of liner/area of pipe

This pressure should be greater than the back pressure seen when flowing the well out the bleed lines.

If back pressure is greater than the safe stripping pressure, snubbing should be done.

STRIPPING:

- A) Rig up casing crew and change out stripping rubber to 5-1/2".
Change out lower rams in upper BOP to 5-1/2". Run 5-1/2" liner through the 5-1/2" stripping rubber.
- B) Pick up the liner hanger (steel sleeve), string float, and (1) one joint of 3-1/2" drill pipe. Make up to 5-1/2" casing.
- C) When liner hanger clears the upper BOP, close the top set of 3-1/2" pipe rams. Change out stripping rubber to 3-1/2" and run remaining drill pipe.
- D) Wash to TD with air/mist using water if necessary, set the liner hanger and release the setting tool. DO NOT ROLL THE HOLE WITH WATER.
Trip out of the hole.

SNUBBING

- A) Lay down drill collars and shut in well.
- B) Rig up snubbing unit over blind rams - Test stack with plug.
- C) HOLD SAFETY MEETING WITH EVERYONE PRESENT
- D) Snub in liner using open TIW valve on each joint. Install liner hanger (hyd set w/ pack off), change over to drill pipe rams - Run drill pipe / liner to the bottom of the 7" casing.
- E) Load drill pipe with water - open choke valve. Displace gas w/ water at 4 BPM +/- 1 BPM. Shut in well. Snub in hole to TD and set hanger.
- F) Lay down (2) joints of drill pipe - verify no pressure - rig down snubbing unit. Lay down drill pipe. Shut blinds / change rams to fit tubing.

15. TIH w/ 2-7/8" tubing w/ a 4-3/4" mill and mill plugs to PBTD. TOH

16. TIH w/ production string. Configured as below (Bottom up):

1 jt 2-7/8" 6.5# J55 tubing
4' perforated sub
2.25" ID Seating Nipple w/ an Otis wireline retrievable plug in the seating nipple.
2-7/8" 6.5# J55 tubing to surface

Land tubing at approximately 3320'

17. Nipple down BOP, nipple up wellhead assembly.

18. Shut well in. Notify production operations to hook up production facilities and run pump and rods. Rig down.

19. MIRU rod & tubing rig.

20. ND wellhead assembly and nipple up BOP.

21. Rig up wireline unit and retrieve plug in seating nipple. Rig down wireline.

22. Pick up and TIH w/ the rods and pump configured as below (Bottom up):

8' gas anchor

25-175-RHAC-10-4-14 Stroke through San Juan pump

3285' 7/8" polished rods (rerun rods pulled from well)

23. Space out rods and hang on Lufkin C160-173-86 pump jack.

24. Rig down.

MATERIAL / SERVICE REQUISITION

Requisitioner: G.W. Lee
Drilling Engineer

Deliver To: Quinn #339

Quantity	Description	Supplier
1	TIW, JGS Liner Hanger 7" X 5-1/2"	TIW
1	5-1/2" Bladed Guide Shoe	TIW
160 ft	5-1/2", 15.5#, K-55, 8RD, LT&C Casing - blank	BR
160 ft	5-1/2", 15.5#, K-55, 8RD, LT&C Casing - pre-perforated at 4 spf utilize 20' perfed joints if possible	BR
1	4-3/4" Mill to mill aluminum plugs in liner	BR
1	2-7/8" OD X 2.25" ID SeatingF-Nipple	BR
1	4' perforated sub, 2-7/8" OD	BR
5	2-7/8" 6.5# J55 tubing joints (2 will be added to the string, 3 extra)	BR

If needed (pitot greater than 5 MMCFD):

1	Tubing Head 11" X 7-1/16", 3000 psi, w/ 2-1/16" studed side outlet and w/ special bore to 2-9/16"	ERC
---	--	-----

Approved: P.B. Lee
Drilling Superintendent

PERSONNEL/VENDOR SUMMARY

Burlington Resources (Office)	(505) 326-9700	(7:30am-4:00pm)
Drilling Department		
Drilling Superintendent	P.W. Bent	office (505) 326-9887 cellular (505) 320-1696
Drilling Superintendent	W.S. Smithwick	office (505) 326-9784 cellular (505) 320-2578
Drilling Superintendent	R. desCognets	office (505) 326-9755 cellular (505) 320-8368
Drilling Engineer	G.W. Lee	office (505) 326-9729 pager (505) 326-8463
Production Engineer	M.P. Castiglione	office (505) 326-9717
Geology Department		
Operations Geologist	G.L. Jennings	office (505) 326-9771
Construction Department		
Construction Foreman	C. Smith	office (505) 326-9845 pager (505) 326-8350
Purchasing / Materials		
	M. Brown	office (505) 326-9853 pager (505) 326-8799
Regulatory Agency		
	Farmington BLM	(505) 599-8907
	Durango BLM	(970) 247-4082
	Aztec NMOCD	(505) 334-6178
	Colo O&G Durango	(303) 259-4587
Service Contractors		
Rig Contractor	Aztec Well Service	(505) 334-6191
Liner Equipment	TIW	(505) 599-5240
Wellhead	ERC	(505) 327-3361
Emergency Services		
Aero Medical Services	St. Mary's Airline	(800) 525-4224 or 911
	Air Care-I	(800) 452-9990 or 911

WELLNAME: Quinn #339				DP NUMBER: 5158A PROP. NUMBER: 071282900				
WELL TYPE: Basin Fruitland Coal				ELEVATION: KB 6509' GL 6496'				
LOCATION: 1825' FSL, 835' FWL Sec. 20, T31N, R08W San Juan County, NM Lat/Long: 36.881180 - 107.704117				INITIAL POTENTIAL: 1,300 AOF Test INITIAL SITP: 1455 Psig LAST AVAILABLE SITP: 431 Psig 1/1/96				
OWNERSHIP: GWI: 7.5000% NRI: 52.7875% SJBT: 0.0000%				DRILLING: SPUD DATE: 10/7/90 COMPLETED: 11/1/90 TOTAL DEPTH: 3352' PBTD: 3352'				
CASING RECORD:								
HOLE SIZE		SIZE	WEIGHT	GRADE	DEPTH	EQUIP.	CEMENT	TOC
12-1/4"		9-5/8"	36#	K55	352'	Casing	330 cf	Surf.
8-3/4"		7"	20#	K55	3129'	Casing	1059 cf	Surf.
6-1/4" / 9-1/2"		6-1/4" from 3129' - 3137', 9-1/2" from 3137' - 3352'						
		2-7/8"	6.5#	J55	3300'	Tubing		-
130		7/8" Rods, PCP pump in well.						
Tubing: 8' mud anchor, 13.4' stator, 102 jts. tubing.								
FORMATION TOPS:								
Ojo Alamo				2149'		Menefee		
Kirtland				2219'		Point Lookout		
Fruitland				2936'		Mancos		
Pictured Cliffs						Gallup		
La Ventona						Greenhorn		
Mesa Verde						Graneros		
						Dakota		
LOGGING: None								
PERFORATIONS Pre-perfed liner. Pulled 2/96								
STIMULATION: None								
WORKOVER HISTORY: 2/96: Pull liner, recavitate, did not re-run liner, ran tubing.								
5/4/96 Trip pump								
5/22/96 Trip pump								
6/24/96 Trip pump								
10/1/96 Trip pump								
PRODUCTION HISTORY:								RESERVE INFORMATION:
Cumulative as of 1996:		Gas 3.9 BCF	Oil 0	Gross EUR:		Gas 8.0 BCF	Oil 0	
Current as of 11/96:		300 MCFD	0	Remaining:		4.1 BCF	0	
PIPELINE: MOI								

Quinn #339

Current -- 1/16/97

Spud: 10/7/90
Completed : 11/1/90
Elevation: 6509' (KB)
6496' (GL)
Logs: None
2/96: Pull liner, recavitate, did not re-run
liner, ran tubing.
5/4/96 Trip pump
5/22/96 Trip pump
6/24/96 Trip pump
10/96 Trip pump

DPNO: 5158A
Basin Fruitland Coal
1825' FSL, 835' FWL
Sec. 20, T31N, R08W
Lat/Long: 36°52.87", 107°42.25"

