# **UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT**

a.	Type of Work	2005	गप्तम ५	(11 H	5. Lease Number	
	DRILL			THE	NMNM-111	
	•			EIVED	Unit Reporting No.	
		07	O FARM	INGTOR	DK-8910010	
b.	Type of Well GAS				6. If Indian, All. or T	ribe
	Operator		سيرير		7. Unit Agreement N	Jame
••	BURLINGTON		- J. (1) No.	* . * .		
	RESCURCES Oil &	Gas Company		JUN 2005	3	
3.	Address & Phone No. of O	•	α) ·		8. Farm or Lease Na	ame
	PO Box 4289, Farm	ington, NM 8	7/499	J. 1. 15.	Nêgro Canyon <b>9. Well Numbe</b> r	
-	(505) 326-9700		Joseph Comment	ال ه ۱۳۰۰ ال	#103s	
4.	Location of Well			- 6 1 1 6 1 1 6 1 6 1 6 1 6 1 6 1 6 1 6	10. Field, Pool, Wild	lcat
	1395' FNL, 170' FE 2510' FSL, 2425' FE		•	e. 1	Basin Fruitland	
				.000 1505	11. Sec., Twn, Rge, I	
	ce-Latitude 36 <sup>0</sup> 55.73 m Hole-Lat. 36 <sup>0</sup> 55.51					L3TN' K08M
חסננט	m noie mac. 30-33.31	oz w, nongit	.uue 107	57.5074	API # 30-045- 37	937
14.	Distance in Miles from Nea 30.2 miles to Blance		ffice		<b>12. County</b> San Juan	13. State
15.	Distance from Proposed L	ocation to Neare	st Propert	y or Lease I	ine	
16.	170' Acres in Lease				17. Acres Assigned 302.49 S.	
18.	Distance from Proposed L	ocation to Neare	st Well, Dı	lg, Compl, d	or Applied for on this Lo	ease
19.	Proposed Depth 3914'				<b>20. Rotary or Cable</b> Rotary	Tools
21.	Elevations (DF, FT, GR, Et	c.)			22. Approx. Date W	ork will Start
23.	Proposed Casing and Cen See Operations Pl					
24.	Authorized by:	ni Cla	UC_			05
PERMI	TNO.	Regulatory S		PPROYAL D	,	
	T NO.	antie (	AI	PPROYAL D	,	E 6-15

MOTE: This format is issued in lieu of U.S. BLM Form 3160-3

Title 18 U.S. Section 1001 makes it a grime for any person knowingly and willfully to make to any department or agency of the United States any last indictions of feedback in the Company of the United States any last indictions of feedback in the Company of the United States any last indictions of feedback in the Company of the United States appeal pursuant to 43 CFR 3165.4

DRILLING OPERATIONS

DISTRICT I 1625 N. French Dr., Hobbs, N.M. 88240 State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised August 15, 2000

DISTRICT II 611 South First, Artesia, N.M. 88210

1000 Rio Brazos Rd., Aztec, N.M. 87410

OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, NM 87505

Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

2040 South Pacheco, Santa Fe, NM 87505

☐ AMENDED REPORT

# WELL LOCATION AND ACREAGE DEDICATION PLAT

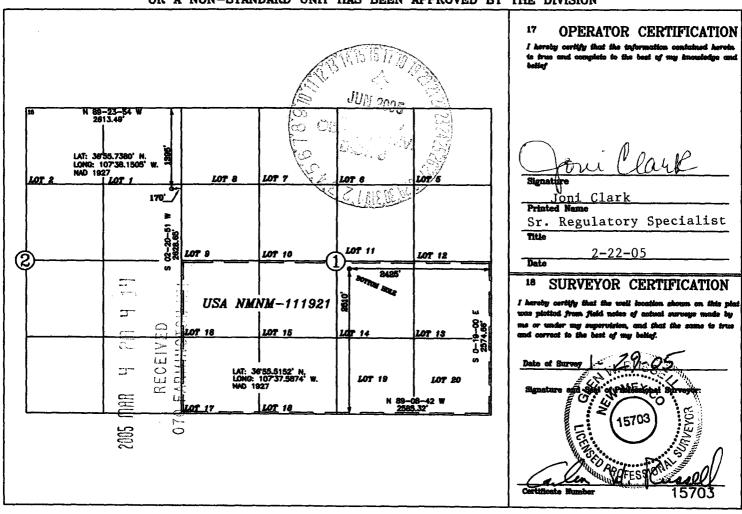
<sup>1</sup> API Number	*API Number 30-045- 37931		<sup>8</sup> Pool Name			
30-045			29 Basin Fruitland Coal			
<sup>4</sup> Property Code		6 Pr	operty Name	• Well Number		
34287		NEGRO CANYON				
OGRID No.		<sup>6</sup> Operator Name				
14538	BU	RLINGTON RESOURCES	TON RESOURCES OIL AND GAS COMPANY LP			

10 Surface Location

UL or lot no.	Section	Township	Range	Lot idn	Feet from the	North/South line	Feet from the	East/West line	County	l
н	2	31-N	8-W		1395'	NORTH	170'	EAST	SAN JUAN	l
11 Rottom Hole Location If Different From Surface										

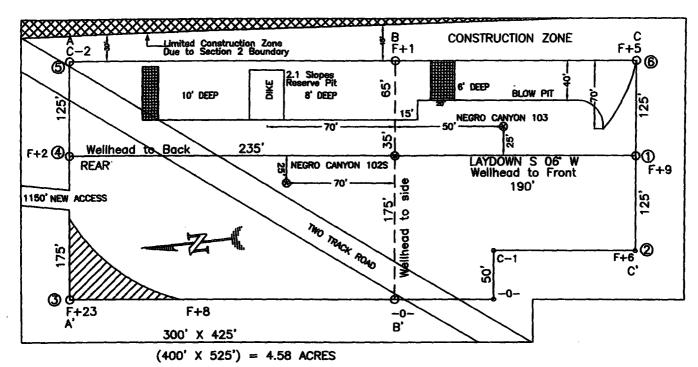
UL or lot no.	Section 1	Township 31—N	Range 8-W	Lot Idn	Feet from the 2510'	North/South line SOUTH	Feet from the 2425'	East/West line EAST	County SAN JUAN
in Dedicated Acre	8		ss Joint or	infill	** Consolidation C	ode	<sup>16</sup> Order No.	<u></u>	
	s/2 30	2.49 ac							i

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

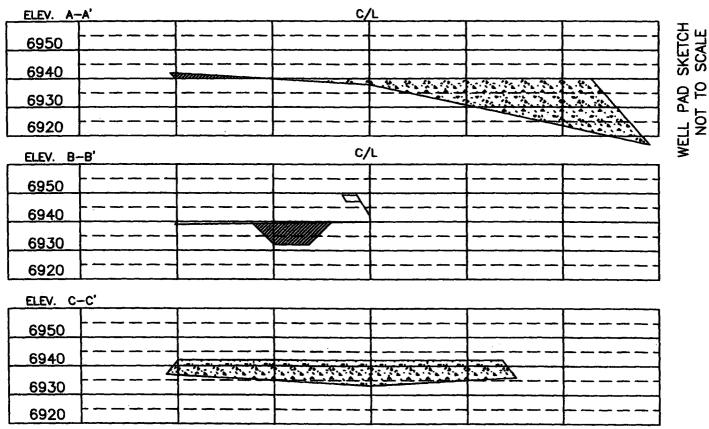


Submit 3 Copies To Appropriate District Office	State of New Mexico		Form C-103
District I `	Energy, Minerals and Natural Resou	rces	May 27, 2004
1625 N. French Dr., Hobbs, NM 88240		WELL API NO.	
<u>District II</u> 1301 W. Grand Ave., Artesia, NM 88210	OIL CONSERVATION DIVIS	ON 5. Indicate Type of Lease	
District III	1220 South St. Francis Dr.	STATE FEE	
1000 Rio Brazos Rd., Aztec, NM 87410	Santa Fe, NM 87505	6. State Oil & Gas Lease No.	
District IV		NB (DB ( 111021	
1220 S. St. Francis Dr., Santa Fe, NM 873 SUNDRY NOTIO	CES AND REPORTS ON WELLS	NMNM-111921 7. Lease Name or Unit Agreement Name	me
(DO NOT USE THIS FORM FOR PROPOSAL:	S TO DRILL OR TO DEEPEN OR PLUG BACK TO A		
PROPOSALS.)	ION FOR PERMIT" (FORM C-101) FOR SUCH	Negro Canyon	İ
1. Type of Well:		8. Well Number	
Oil Well Gas Well X	Other	1038	
2. Name of Operator	OTHER OF A GAR COMMANDA	9. OGRID Number	
3. Address of Operator	OURCES OIL & GAS COMPANY LP	14538 10. Pool name or Wildcat	
	REET, FARMINGTON, NM 87402	Basin Fruitland Coal	
4. Well Location	1205 6 46 4 27 4	1 150 0 0 0	
Unit Letter H : :	1395 feet from the North line a Township 31N Range		line n Juan, NM
	Elevation (Show whether DR, RKB, RT, GR, etc.		il Juan, 14ty
Pit Diament Truly And Control	X or Closure		
		W	
Pit type New Drill Depth to Ground Pit Liner Thickness:			>1000'
L			
	Appropriate Box to Indicate Nature o		
_	NTENTION TO:	SUBSEQUENT REPORT OF	
PERFORM REMEDIAL WORK TEMPORARILY ABANDON		MEDIAL WORK  MENCE DRILLING OPNS. P AND A	G CASING
PULL OR ALTER CASING	<b>⊢</b> I '	ING/CEMENT JOB	لــا
OTHER:	⊓│ѹ	IFR·	
	ted operations. (Clearly state all pertinent details,		ate
	x). SEE RULE 1103. For Multiple Completions		
or recompletion.			
	construct a new drilling pit and an associated vent	-	
	te new drilling pit and vent/flare pit will be an unl		
	dures dated November 11, 2004 on file at the NM be unlined, as per the risk ranking criteria. Burli		
	ocedure dated August 2, 2004 on file that the NM		according to the
Ü	, , , , , , , , , , , , , , , , , , , ,		
Thereby certify that the information of	ove is true and complete to the best of my knowl	adas and halisf war at the same at the	
	sed according to NMOCD guidelines, a general perm	· —	
	1		
SIGNATURE DUC	Laik title	Regulatory Specialist DATE	2/4/2005
Type or print name Jo	ni Clark E-mail address: j¢k	ark@br-inc.com Telephone No.	226 0700
For State Use Only	12-man address. [Ci	ark@br-inc.com Telephone No.	326-9700
	Ild of cours of	L & GAS IMSPECTOR, DIST. 💋 DATE	V 1 7 200E
APPPROVED BY		TO THE PARTY OF THE PARTY O	
Conditions of Approval (if any):	TITLE	DATE _	2000

# BURLINGTON RESOURCES OIL & GAS COMPANY LP NEGRO CANYON #103S, 1395,' FNL & 170' FEL SECTION 2, T-31-N, R-8-W, NMPM, SAN JUAN COUNTY, NM GROUND ELEVATION: 6940', DATE: JANUARY 24, 2005



RESERVE PIT DIKE: TO BE 8' ABOVE DEEP SIDE (OVERFLOW — 3' WIDE AND 1' ABOVE SHALLOW SIDE). BLOW PIT: OVERFLOW PIPE HALFWAY BETWEEN TOP AND BOTTOM AND TO EXTEND OVER PLASTIC LINER AND INTO BLOW PIT.



TE: VECTOR SURVEYS IS NOT LIABLE FOR UNDERGROUNG UTILITIES OR PIPELINES.

CONTRACTOR SHOULD CALL ONE—CALL FOR LOCATION OF ANY MARKED OR UNMARKED BURIED PIPELINES OR CABLES

ON WELL PAD AND OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION.

### OPERATIONS PLAN

Well Name: Negro Canyon #103S

Location: Surface - 1395'FNL, 170' FEL, Section 2, T-31-N, R-8-W

Bottom Hole - 2510' FSL, 2425' FEL, Section 1, T-31-N, R-8-W

San Juan County, New Mexico

Surface - Latitude 36° 55.7380'N, Longitude 107° 38.1505'W Bottom Hole - Latitude 36° 55.5152'N, Longitude 107° 37.5874'W

Formation: Basin Fruitland Coal

Elevation: 6940'GL

			TVD	
Formation Tops:	<u>TVD</u>	<u>TMD</u>	Bottom	Contents
Surface	<del></del>	San Jose	2664'	
Ojo Alamo	2664 <b>′</b>	3957 <b>′</b>	2764'	aquifer
Kirtland	2764′	4115'	3291'	gas
Fruitland	3291 <b>′</b>	4618′	3491 <b>′</b>	
Intermediate TD	3451'	4882'		
T/Coal	3491 <b>'</b>	4922'	3829 <b>′</b>	
B/Coal	3829 <b>'</b>	5260 <b>′</b>	3830 <b>′</b>	
Pictured Cliffs	3830 <b>′</b>	5261 <b>′</b>		gas
TD	3914′	5345′		-

# Burlington Resources requests a sump on this well

### Logging Program:

Mudlog from 7" csg to 3914' (TVD).

### Mud Program:

Interval	Type Spud Mudlair air W	Weight	<u>Vis</u>	Fluid Loss
0-200'	Spud Mud Or Our N	<b>usi</b> 8.4-9.0	40-50	no control
200'-3451'	LSND	8.4-9.0	30-60	less than 12
3451'-3914'	Air/Mist			

### Drilling:

### Surface Hole:

Drill to surface casing point of 200' and set 9 5/8" casing.

### Intermediate Hole:

Mud drill to kick off point of 300'. At this point the well will be directionally drilled by building 6.0 degrees per 100' with an azimuth of 116.11 degrees. The end of the build will be at a TVD of 1080', a TMD of 1212', and an angle of 54.74 degrees. This angle and azimuth will be held to a total depth of 2671' TVD and 3969' TMD. To enter the productive interval vertical, the well will be dropped 6.0 degrees per 100'. The well will be vertical at 7" casing point of 3451' TVD and 4882' TMD.

### Production Hole:

Production hole will be drilled vertical from 3451' TVD to 3914' TVD.

### Materials:

Casing program: (as listed, the equivalent, or better)

Hole Size	Interval	<u>-</u>	<u>Size</u>	<u>Weight</u>	Grade
	TOP	Bottom (TVI	<b>)</b> )		
12 ¼"	o <b>'</b>	200′	9 5/8"	32.3#	H-40
8 3/4"	0'	3451 <b>′</b>	7″	20#/23.0#	J-55/L-80
6 1/4"	3351'	3914 <b>'</b>	5 1/2"	15.5#	J-55

<u>Cas</u> Hole Size	<del></del>	(alternate)	Size	Weight	Grade
	TOP	Bottom (TVI	D)		
12 ¼" 8 3/4"	. 0 <b>'</b> 0'	200 <b>′</b> 3451 <b>′</b>	9 5/8 <b>"</b> 7 <b>"</b>	32.3# 20#/23.0#	H-40 J-55/L-80
6 1/4"	oing Program:	3914'	2 3/8"	4.7#	J-55
6 1/4″	ing Program:	(alternate)	2 7/8"	9.2#	J-55

Float Equipment: 9 5/8" surface casing - saw tooth guide shoe. Centralizers will be run in accordance with Onshore Order #2.

7" intermediate casing - guide shoe and self-fill float collar. Standard centralizers run every other joint above shoe. Two turbolizing type centralizers - one below and one into the base of the Ojo Alamo @ 2764' (TVD). Standard centralizers thereafter every fourth joint up to the base of the surface pipe.

### Wellhead Equipment

9  $5/8" \times 7" \times 2 3/8" - 11"$  (2000 psi) wellhead assembly

### Cementing:

9 5/8" surface casing -

Pre-Set Drilled Cement with 39 sx Type I, II cement with 20% flyash mixed at 14.5 ppg, 1.61 cu ft per sack yield. (63 cu ft of slurry, bring cement to surface) Wait on cement for 24 hours for pre-set holes before pressure testing or drilling out from under surface.

### Conventionally Drilled

Cement with 147 sxs Type III cement with 0.25 pps Celloflake, 3% CaCl. (188 cu ft of slurry, 200% excess, bring cement to surface) Wait on cement for 8 hrs for conventionally set holes before pressure testing or drilling out from under surface. WOC until cement establishes 250 psi compressive strength prior to NU of BOPE.

7" intermediate casing - lead w/458 sacks Premium Lite with 3% calcium chloride, 5 pps LCM-1, and 1/4#/sack flocele, 0.4% FL-52, & 0.4% SMS. Tail with 90 sacks Type III cmt with 1% calcium chloride, 1/4#/sack flocele and 0.2% FL-52 (1101 cu.ft., 50% excess to circulate to surface).

Note: If open hole logs are run, cement volumes will be based on 25% excess over caliper volumes.

5 1/2" liner - will not be cemented if run.

### BOP and tests:

Surface to intermediate TD - 11" 2000 psi (minimum) double gate BOP stack (Reference Figure #1). Prior to drilling out surface casing, test BOPE to 600 psi for 30 min.

Intermediate TD to Total Depth - 7 1/6" 2000 psi (minimum) completion BOP stack (Reference Figure #2/4 Prior to drilling out intermediate casing, test BOPE and casing to 1500 psi for 30 minutes.

### Operations Plan - Negro Canyon 103S

Page Three

From surface to 7" TD - a choke manifold will be installed in accordance with Onshore Order No. 2 (Reference Figure #3). When the cavitation completion rig drills the production hole, the completion rig configuration will be used (Reference Figure #4). witasian rig Operations.

Pipe rams will be actuated at least once each day and blind rams actuated once each trip to test proper functioning. An upper kelly cock valve with handle and drill string safety valves to fit each drill string will be maintained and available on the rig floor.

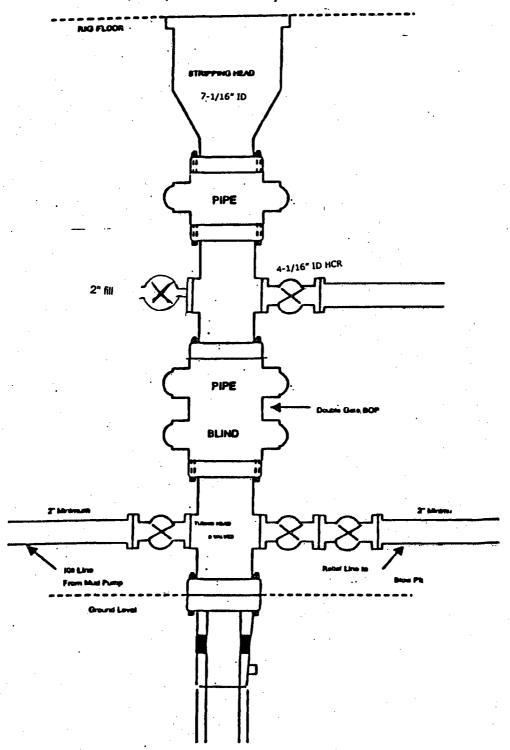
### Additional information:

- The Fruitland Coal formation will be completed.
- Anticipated pore pressure for the Fruitland is less than 1600 psi.
- This gas is dedicated.
- The south half of Section 1 is dedicated to the Fruitland Coal.

Engineer Date

# BURLINGTON RESOURCES Cavitation Rig

Cavitation Rig
BOP Configuration
2,000 psi Minimum System



# **BURLINGTON RESOURCES**

Dritting Rig Choke Manifold Configuration 2000 pai System

2000 psi System **Drilling Rig** 

**Burlington Resources** 

Figure #1

4-20-01

equipment with two chakes. Point to Total Depth. 2,000pal working pressure Choke mentiold installation from Burface Cesting

Figure #3

1 1 mar

pipe rams. A stripping head to be installed on the top of Operations. 7-1/16" bors, 2000 pel minimum working the BCP. All BCP equipment is 2000 pel working pressure double gate BOP to be equipped with blind end Intrum BOP installation for all Compl

Figure #2

4-20-01

BURLINGTON RESOURGES

Completion/Workover 109
BOP Configuration
2,000 pai System

seure or greater excluding 500 pel stripping head.