UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

la.	Type of Work DRILL	2005 MIHH 4 21 Receive 070 Farming	Lease Number NMNM-11 Unit Reporting MV-89100 DK-89100	Number 10510
b.	Type of Well GAS		6. If Indian, All. or	
	Operator BURLINGTON RESOURCES Oil &	Gas Company	7. Unit Agreemen	t Name
•	Address & Phone No. of Op PO Box 4289, Farm (505) 326-9700	perator ington, NM 87499	8. Farm or Lease Negro Canyon 9. Well Number #102	Name
ļ.	Location of Well 1995' FSL, 1680' FW 710' FNL, 710' FE	L surface Sec3ú T32	N RGW	nd Coal
		77'N, Longitude 107 ⁰ 37. 67'N, Longitude 107 ⁰ 37.		T3 1 N, R08W
14.	Distance in Miles from Nea 31 miles to Blanco,		12. County San Juan	13. State NM
15.	Distance from Proposed Lo	ocation to Nearest Property or Le	ase Line	
6.	Acres in Lease		17. Acres Assign e 299.36-	ed to Well #2 N/2 Scci,
8.	Distance from Proposed Lo	ocation to Nearest Well, Drlg, Co	npl, or Applied for on this	Lease
9.	Proposed Depth 3729'		20. Rotary or Cab Rotary	le Tools
1.	Elevations (DF, FT, GR, Etc 6744' GR	e.)	22. Approx. Date	Work will Start
23.	Proposed Casing and Cem See Operations Pl			
24.	Authorized by: Senior	Degulatory Specialist		4-05
PERM	IT NO.	APPROV	AL DATE	
ΔΡΡΒ	OVED BY MAN	Keek TITLE A	EM DA	ATE <u>5-27-</u> 2

This action is subject to technical and procedural review of suant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4

NMOCD

States any false, fictitious or fraudulent statements or presentations as to any matter within its jurisdiction. DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS". 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: 811 South First, Artesia, N.M. 88210

DISTRICT III 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

☐ AMENDED REPORT

County

DISTRICT IV 2040 South Pacheco, Santa Fe, NM 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-32	736	*Pool Code 71629		*Pool Name Basin Fruitland Coal	
Property Code		*p	roperty Name	17737	* Well Number
134281		NEGR	O CANYON	A CO	102
OGRID No.		•0	perator Name	0000	• Elevation
14538		BURLINGTON RESOURCE	S OIL AND	GAS COMPANY LIP 2015	6744'

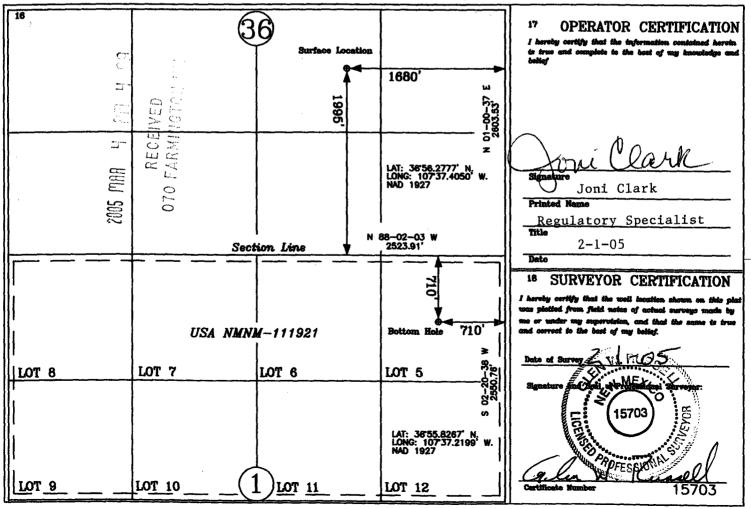
Surface Location

UL or lot no. Section Township Renge Lot Idn Feet from the North/South line Feet from the East/West line

J 36 32-N 8-W 1995' SOUTH 1680' EAST

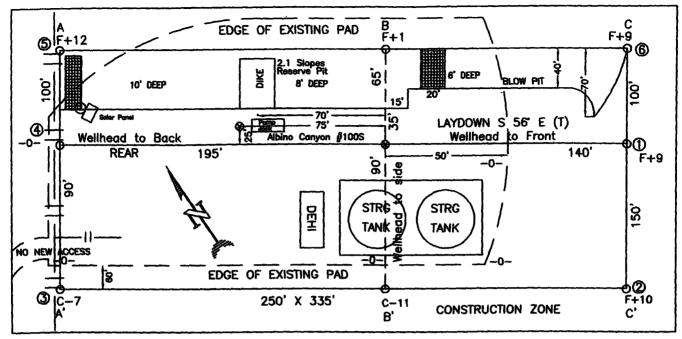
SAN JUAN ¹¹ Bottom Hole Location If Different From Surface UL or lot no. Section Feet from the North/South line Feet from the East/Vest line County 31-N 8-W 710 NORTH 710 **EAST** SAN JUAN Dedicated Acres ¹⁸ Joint or Infill 14 Consolidation Code S Order No. M/2 299.36 acres

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



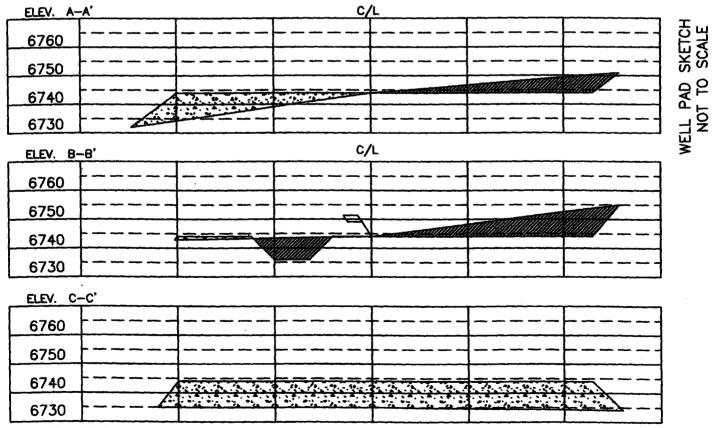
Submit 3 Copies To Appropriate District	State of New Mexico	Form C-103
Office District I	Energy, Minerals and Natural Resources	May 27, 2004
1625 N. French Dr., Hobbs, NM 88240	Zarabay, manaraha and manarah menarahan	WELL API NO.
District II	ON CONCEDIATION DESIGNATION	30-045-
1301 W. Grand Ave., Artesia, NM 88210	OIL CONSERVATION DIVISION	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.
<u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM 87505		NMNM-111921
	S AND REPORTS ON WELLS	7. Lease Name or Unit Agreement Name
	O DRILL OR TO DEEPEN OR PLUG BACK TO A	
DIFFERENT RESERVOIR. USE "APPLICATION	FOR PERMIT" (FORM C-101) FOR SUCH	Negro Canyon
PROPOSALS.)		
1. Type of Well: Oil Well Gas Well X	Other	8. Well Number #102
2. Name of Operator	JRCES OIL & GAS COMPANY LP	9. OGRID Number 14538
3. Address of Operator	RCES OIL & GAS COMPANT LF	10. Pool name or Wildcat
	ET, FARMINGTON, NM 87402	Basin Fruitland Coal
4. Well Location		
	95 feet from the South line and Township 32N Range 8W	1680 feet from the <u>East</u> line
Section 36	Township 32N Range 8W levation (Show whether DR, RKB, RT, GR, etc.)	NMPM County San Juan, NM
	evalion (blow whether DA, 100), 111, OA, ea.,	
Pit or Below-grade Tank Application X	or Closure	
Pit type New Drill Depth to Groundwat	er >100' Distance from nearest fresh water well	>1000' Distance from nearest surface water >1000'
Pit Liner Thickness:	mil Below-Grade Tank: Volume	bbls; Construction Material
10 Cl1 A	Description of the Color	· · · · · · · · · · · · · · · · · · ·
	ppropriate Box to Indicate Nature of Not	· · ·
NOTICE OF INT		SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK	PLUG AND ABANDON REMEDIA	
TEMPORARILY ABANDON PULL OR ALTER CASING	— H	CE DRILLING OPNS. P AND A
FOLL ON ALTER CASING	MOLTH LE COMPL	EMICIAL 200
OTHER:	OTHER:	
13. Describe proposed or completed	operations. (Clearly state all pertinent details, and g	
13. Describe proposed or completed of starting any proposed work).		
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BURLINGTON RESOURCES OIL & GAS COMPANY LP NEGRO CANYON #102, 1995,' FSL & 1680' FEL SECTION 36, T-32-N, R-8-W, NMPM, SAN JUAN COUNTY, NM GROUND ELEVATION: 6744', DATE: JANUARY 25, 2005



(350' X 435')

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.



NOTE: 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 #102

Location: Surface - 1995' FSL, 1680' FEL, Section 36, T-32-N, R-8-W

Bottom Hole - 710' FNL, 710' FEL, Section 1, T-31-N, R-8-W

San Juan County, New Mexico

Surface - Latitude 36° 56.2777'N, Longitude 107° 37.4050'W

Bottom Hole - Latitude 36° 55.8267'N, Longitude 107° 37.2199'W

Formation: Basin Fruitland Coal

Elevation: 6744'GL

			TVD (C)
Formation Tops:	\underline{TVD}	\underline{TMD}	Bottom Contents
Surface		San Jose	24631 1011 2000
Ojo Alamo	2463'	3678 ′	25 68' 👙 aquifer 🗐
Kirtland	2568 ′	3849 ′	3105' gas
Fruitland	3105 ′	4470 ′	33(15)
Intermediate TD	3265′	4608′	
T/Coal	3305 ′	4670 ′	3643
B/Coal	3643 ′	5008 ′	3644'
Pictured Cliffs	3644'	5009′	gas
רויי	37291	50931	

Burlington Resources requests a sump on this well Logging Program:

Mudlog from 7" csg to 3729' (TVD).

Mud Program:

Interval 0-200'	Type Spud Mudair air-mas	Weight	<u>Vis</u>	Fluid Loss no control
200'- 3265'	LSND	8.4-9.0		less than 12
3265' - 3729'	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 250'. At this point the well will be directionally drilled by building 6.0 degrees per 100' with an azimuth of 161.76 degrees. The end of the build will be at a TVD of 1032', a TMD of 1166', and an angle of 54.94 degrees. This angle and azimuth will be held to a total depth of 2483' TVD and 3693' 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 3265' TVD and 4608' TMD.

Production Hole:

Production hole will be drilled vertical from 3265' TVD to 3729' TVD.

Materials:

Casing program: (as listed, the equivalent, or better)							
Hole Size	Interval		Size	Weight	Grade		
	TOP	Bottom	(TVD)				
12 4"	0'	200'	9 5/8"	32.3#	H-40		
8 3/4"	0'	3265 ′	7 "	20#/23.0#	J-55/L-80		
6 1/4"	3165'	3729 ′	5 1/2"	15.5#	J-55		
8 3/4"	0' 0'	200 ′ 3265 ′	9 5/8 " 7 "	20#/23.0#	J-55/L-80		

Casiz Hole Size	n g program: Interval	(alternate)	Size	Weight	Grade
noie Size	Incervar		<u>5126</u>	weight	Grade
	TOP	Bottom (TVD)		
12 ¾"	0 ′	200′	9 5/8"	32.3#	H-40
8 3/4"	0'	3265 ′	7"	20#/23.0#	J-55/L-80
Tubir	ng Program:				
2 3/8"	0'	3729 ′	2 3/8"	4.7#	5-55
Tubir	ng Program:	(alternate)			
3 1/2"	0'	3729 ′	2 7/8"	9.2#	J-55 1111 2005
Float Fouir	ment. 95/	8" surface ca	sina - sa	w tooth guide a	shoe Contralizare will be run

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 @ 2568' (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/429 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 (1039 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 102

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).

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:

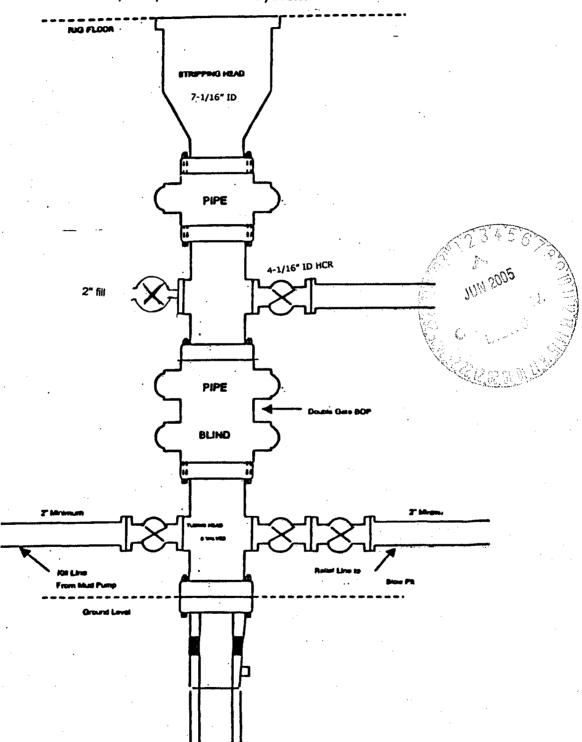
- * The Fruitland Coal formation will be completed.
- * Anticipated pore pressure for the Fruitland is less than 1600 psi.
- * This gas is dedicated.
- * The north half of Section 1 is dedicated to the Fruitland Coal.

Chiefer Engineer

Date

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Figure #4
Cavitation Rig
BOP Configuration
2,000 psi Minimum System



10-02-01

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