UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

a.	Type of Work DRILL	2005 MAR	4 PM	4 11	5. Lease Number NMNM-1119	21
	DKIND		RECEIVE	n	Unit Reporting Nu	mber
			ARMINGT	-	MV-89100105 DK-89100105	
lb.	Type of Well GAS	O I O I i	AMMINGI	CATE TO STATE	6. If Indian, All. or Tri	
2.	Operator BURLINGTON				7. Unit Agreement N	ame
	RESOURCES	Oil & Gas Compan	у			
3.	Address & Phone No		07400		8. Farm or Lease Na	ne
	PO Box 4289,	Farmington, NM	87499		Negro Canyon 9. Well Number	
	(505) 326-970	0			#102S	
4.	Location of Well			1 .	10. Field, Pool, Wildo	
			ce <i>Sec</i> o m hole	<i>t</i> 2	Basin Fruitland	Coal
	,			0 .	11. Sec., Twn, Rge, M	
	.ce-Latitude 36 ⁰ 5 m Hole-Lat. 36 ⁰ 5				O' W	
Боссо	m note hat. 50 5	oloroo n, Long	reade r	, 3, . 300	API# 30-045- 32	935
14.	Distance in Miles from 30.2 miles to B		Office		12. County San Juan	13. State NM
15.	Distance from Propo	sed Location to Nea	rest Prope	rty or Lease	Line	
16.	Acres in Lease		7375		17. Acres Assigned 1 299.36 N	o Well 12 Sec1, 3/N
18.				Drig Compl.	, or Applied for on this Le	ase
19.	2051' Proposed Depth 3923'	11.	Jn. 5002		20. Rotary or Cable Rotary	ools
21.	Elevations (DF, FT, G	GR, Etc.)	en e		22. Approx. Date Wo	ork will Start
23.	Proposed Casing and See Operation	d Cementing Progra				
24.	Authorized by: Sen	ou C	Cerle Special	list	3(E	3/05
PERMI	IT NO.		,	APPROVAL	DATE	
				4	<u> </u>	

Threatened and Endangered Species Report attached NOTE: This format is issued in lieu of U.S. BLM Form 3160-3

MOLDER FOR Directional Survey

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any fictitious certification of the United States any ficting of the United States and the

MMOCD

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

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

DISTRICT IV 2040 South Pacheco, Santa Fe, NM 87505

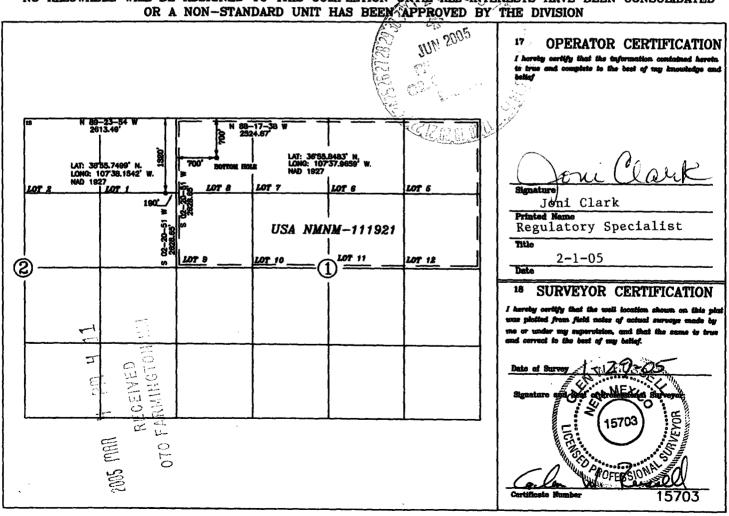
OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, NM 87505

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API	27920	7	Pool Code		³ Pool Name Basin Fruitland Coal					
	30-043 00 , 00 1,2005								Tell Mumber	
Property C	//				• •			1	,	
540	0 1				NEGRO CAN		·		1025	
OGRID No	.				*Operator	Name		Ì	• Elevation	
14538	Ì		BURLI	NGTON RE	SOURCES OIL	AND GAS COMPA	ANY LP	İ	6938'	
¹⁰ Surface Location										
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	Rast/West line	County	
Α	2	31-N 8-W 1320' NORTH 190' EAST				SAN JUAN				
			11 Bott	om Hole	Location I	f Different Fro	om Surface			
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
D	1	31-N	8-W		700'	NORTH	700'	WEST	SAN JUAN	
¹³ Dedicated Acres ¹³ Joint or is				infill	" Consolidation (Code	¹⁵ Order No.	Order No.		
N/2 2	299.36	acres								
NO ALLOW	ABLE W		SSIGNE		S COMPLETIO	ON UNTIL ALL	INTERESTS I		ONSOLIDATEI	



District I
1626 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III

1000 Rio Brazos Road, Aztec, NM 87410

1220 S. St. Francis Dr., Santa Fe, NM 87505

District IV

State of New Mexico Energy Minerals and Natural Resources

Form C-144 June 1, 2004

Oil Conservation Division

1220 South St. Francis Dr. Santa Fe, NM 87505

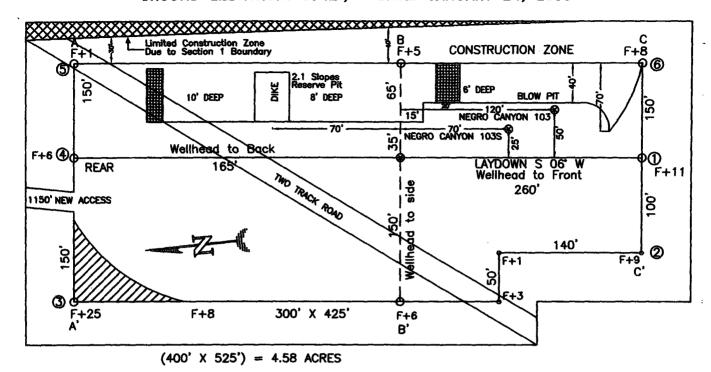
For drilling and production facilities, submit to appropriate NMOCD District Office.

For downstream facilities, submit to Santa Fe office

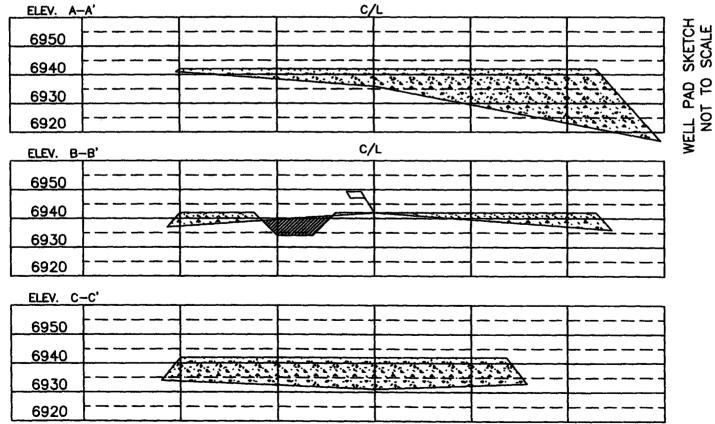
Pit or Below-Grade Tank Registration or Closure	
Is nit or below grade tonk covered by a "general plan"? Ves V M	

	or below-grade tank Closure of a pit or	
Operator: BURLINGTON RESOURCES OIL & GAS COMPANY LP Telephone	:505-326-9700 e-mail address: jclark@br	r-inc.com
Address: 3401 E. 30TH STREET, FARMINGTON, NM 87402		Formation:
Facility or well name: Negro Canyon 102S API #:	30-045- U/L or Qtr/Qtr D	Sec 2 T 31N R 8W
County: San Juan, NM Latitude 36.929165 Longitude	107.6359 NAD: 1927 X 1983 Surfac	ce Owner Federal State X Private Indian
Pit Type: Drilling X Production Disposal Workover Emergency Lined Unlined X Liner type: Synthetic Thickness mil Clay Pit Volume bbl	Below-grade tank Volume:bbl Type of fluid: Construction material: Double-walled, with leak detection? Yes If	If not, explain why not.
Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.)	Less than 50 feet 50 feet or more, but less than 100 feet 100 feet or more	(20 points) (10 points) (0 points) 0 points
Wellhead protection area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources.)	Yes No	(20 points) (0 points) o pointx
Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.)	Less than 200 feet 200 feet or more, but less than 1000 feet 1000 feet or more	(20 points) (10 points) (0 points) (0 points)
	Ranking Score (Total Points)	
If this is a pit closure: (1) attach a diagram of the facility showing the pit's relayour are burying in place) onsite offsite If offsite, name of facil remediation start date and end date. (4) Groundwater encountered: No Attach soil sample results and a diagram of sample locations and excavations. Additional Comments:		general description of remedial action taken including
I hereby certify that the information above is true and complete to the best of n been/will be constructed or closed according to NMOCD guidelines	ny knowledge and belief. I further certify that the a general permit Sport an (attached) altern	
Date: 3/2/2005 Printed Name/Title Joni Clark, Sr. Regulatory Specialist Your certification and NMOCD approval of this application/closure does not reotherwise endanger public health or the environment. Nor does it relieve the oregulations.	- '\ 1	
Approval: Printed Name/Title Steve Haylow	OEFUTY OIL & GAS INSPECTOR. Signature	DIST. (85) JUN - 2 2005

BURLINGTON RESOURCES OIL & GAS COMPANY LP NEGRO CANYON #102S, 1320,' FNL & 190' FEL SECTION 2, T-31-N, R-8-W, NMPM, SAN JUAN COUNTY, NM GROUND ELEVATION: 6942', 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.



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 #102S

Location: Surface - 1320'FNL, 190' FEL, Section 2, T-31-N, R-8-W

Bottom Hole - 700' FNL, 700' FWL, Section 1, T-31-N, R-8-W

San Juan County, New Mexico

Surface - Latitude 36° 55.7499'N, Longitude 107° 38.1542'W Bottom Hole - Latitude 36° 55.8483'N, Longitude 107° 37.9659'W

Formation: Basin Fruitland Coal

Elevation: 6938'GL

			TVD	
Formation Tops:	TVD	TMD	Bottom	Contents
Surface		San Jose	2682 ′	
Ojo Alamo	2682 '	2837 ′	2777 '	aquifer
Kirtland	2777 ′	2939 ′	3323 '	gas
Fruitland	3323 ′	3518 ′	3523 ′	_
Intermediate TD	3483′	3683′		
T/Coal	3523 ′	3719 ′	3838 ′	(195)
B/Coal	3838 ′	4034'	3839 ′	2711
Pictured Cliffs	3839 ′	4035′		gas
TD	3923′	4119'		- A mini

Burlington Resources requests a sump on this well

Logging Program:

Mudlog from 7" csg to 3923' (TVD).

Mud Program:

Interval 0-200'	Type Spud Mudlair air mist	$\frac{\text{Weight}}{8.4-9.0}$	Vis 40-50	Fluid Loss
200' - 3483' 3483' - 3923'	LSND Air/Mist			less than 12

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 5.0 degrees per 100' with an azimuth of 56.82 degrees. The end of the build will be at a TVD of 725', a TMD of 735', and an angle of 21.76 degrees. This angle and azimuth will be held to a total depth of 3058' TVD and 3248' TMD. To enter the productive interval vertical, the well will be dropped 5.0 degrees per 100'. The well will be vertical at 7" casing point of 3483' TVD and 3683' TMD.

Production Hole:

Production hole will be drilled vertical from 3483' TVD to 3683' TMD.

Materials:

Ca	sing progra	m: (as listed	, the equiva	lent, or bett	er)
Hole Siz	<u>e</u> Inter	val	Size	Weight	Grade
	TOP	Bottom (IVD)		
12 ¼"	0 ′	200 ′	9 5/8"	32.3#	H-40
8 3/4"	0 ′	3483 ′	7"	20#/23.0#	J-55
6 1/4"	3383 '	3923 ′	5 1/2"	15.5#	J-55

Casi	ng program.	: (alternate)			•
Hole Size	Interva	al	Size	Weight	Grade
	·				Wat I I We
	TOP	Bottom (TVI)		
12 ¼"	0 '	200 ′	9 5/8"	32.3#	H-40 JUN 2005
8 3/4"	0 ′	3483 '	7"	20#/23.0#	J-55 (1) (1) (1)
Tubi	ng Program	:			to our Div. A
6 1/4"	0'	- 3483 ′	2 3/8"	4.7#	J-55 🖟 🖽 📆
Tubi	ng Program:	(alternate)			Commence of the second
6 1/4"	0'	3483 ′	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 @ 2777' (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 sxs 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/331 sacks Premium Lite with 3% calcium chloride, 5 pps LCM-1, and 1/4#/sack celloflake, 0.4% FL-52, & 0.4% SMS. Tail with 90 sacks Type III cmt with 1% calcium chloride, 1/4#/sack celloflake and 0.2% FL-52 (829 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 #274 Prior to drilling out intermediate casing, test BOPE and casing to 1500 psi for 30 minutes.

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.

Drilling Engineer

5-L

Date

BURLINGTON RESOURCES

FIGURE #4

Cavitation Rig BOP Configuration 2,000 psi Minimum System

