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OTO FARMINGUNITED STATES

DEPARTMENT OF THE INTERIOR

BUREAU OF LAND MANAGEMENT

	APPLICATION FOR PERMIT TO DRILL DE	EPEN, OR PLUG BACK
a.	Type of Work DRILL RECEIVED 070 FARMINGTON 11/4	5. Lease Number NMSF-081155 Unit Reporting Number
b.	Type of Well GAS	6. If Indian, All. or Tribe  7. Unit Agreement Name Allison Unit  8. Farm or Lease Name 9. Well Number #117s
•	Operator BURLINGTON	7. Unit Agreement Name
	RESCURCES Oil & Gas Company	Allison Unit
•	Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499	8. Farm or Lease Name
	(505) 326-9700	9. Well Number #117s
•	Location of Well Unit F (SENW), 2265' FNL, 1555' FWL	10. Field, Pool, Wildcat  Basin Fruitland Coal
	Latitude 36° 58.0099'N	11. Sec., Twn, Rge, Mer. (NMPM) Sec. 21, T32N, R6W
	Longitude 107° 28.0242'W	API# 30-045- 33279
4.	Distance in Miles from Nearest Town 20.4 miles to Int Hwy 172 & Hwy 151 in Igna	12. County 13. State acio, CO San Juan NM
5.	Distance from Proposed Location to Nearest Property or Lea 1555'	ase Line
6.	Acres in Lease	17. Acres Assigned to Well 320 W/2
8.	Distance from Proposed Location to Nearest Well, Drlg, Com 2061' - Allison Unit #51	npl, or Applied for on this Lease
9.	Proposed Depth 3168'	20. Rotary or Cable Tools Rotary
21.	Elévations (DF, FT, GR, Etc.) 6405′ GL	22. Approx. Date Work will Start
23.	Proposed Casing and Cementing Program See Operations Plan attached	<del></del>
24.	Authorized by: Armana Sandows Regulatory Compliance Assistant	8-15-05 Date
PERM	IIT NO APPROV	
\PPR	OVED BY Mayor warmen TITLE Act	DATE 8/29/05
	eological Report attached tened and Endangered Species Report attached	

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

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 false, fictitious or fraudulent statements or presentations as to any matter within its jurisdiction.

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

DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".

NMOCD

### 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

DISTRICT IV 2040 South Pacheco, Santa Fe, NM 87505

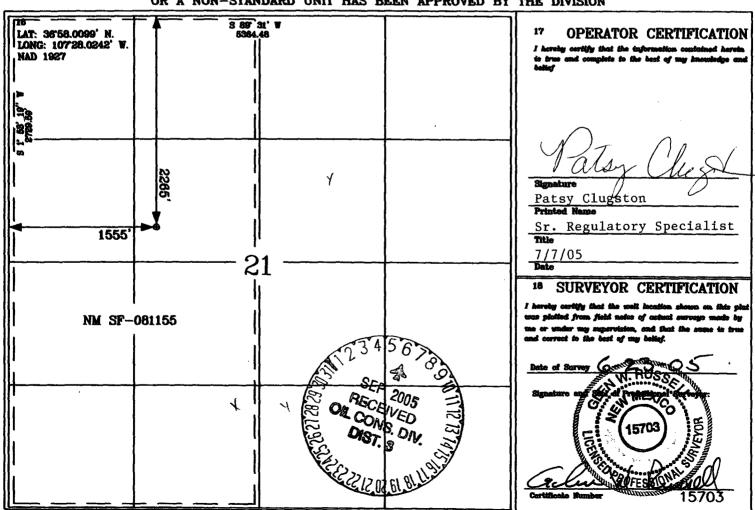
# WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> APi Number	* Pool Code	<sup>3</sup> Pool Name			
30-045-	71629	Basin Fruitland Coal			
*Property Code	• Pro	<sup>6</sup> Property Name			
6784	ALLIS	ALLISON UNIT			
OGRID No.	o Obe	<sup>a</sup> Operator Name			
14538	BURLINGTON RESOURCES	OIL AND GAS COMPANY LP	6405'		

<sup>10</sup> Surface Location

Dut tace focation									
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	21	32-N	6-W		2265'	NORTH	1555'	WEST	SAN JUAN
<sup>11</sup> Bottom Hole					Location I	Different Fro	om Surface		
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/Vest line	County
F	ļ	ł	İ	1					
Dedicated Acre	#8	<del>*************************************</del>	<sup>so</sup> Joint or	háil	<sup>16</sup> Consolidation C	ode	<sup>16</sup> Order No.	<u> </u>	
		•			]				
320 W/2			1						

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

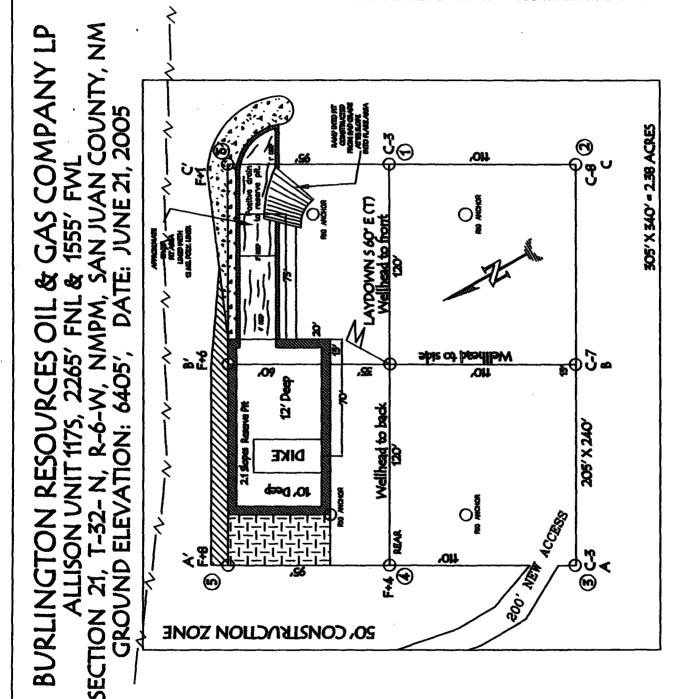


Office			Form C-103
<u>District I</u>	Energy, Minerals and Natural Resource	es	May 27, 2004
1625 N. French Dr., Hobbs, NM 88240 District II		WELL API NO. 30-045-	
1301 W. Grand Ave., Artesia, NM 88210	OIL CONSERVATION DIVISION		
District III	1220 South St. Francis Dr.	STATE FEE	
1000 Rio Brazos Rd., 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		NB/GE 001155	
	S AND REPORTS ON WELLS	7. Lease Name or Unit Agreement Na	me
(DO NOT USE THIS FORM FOR PROPOSALS TO	DRILL OR TO DEEPEN OR PLUG BACK TO A	77. Doube Name of Ont Agreement Na	
DIFFERENT RESERVOIR. USE "APPLICATION	FOR PERMIT" (FORM C-101) FOR SUCH	Allison Unit	
PROPOSALS.)		8. Well Number	
1. Type of Well: Oil Well Gas Well X	Other	8. Well Number	
2. Name of Operator		9. OGRID Number	
BURLINGTON RESOU	RCES OIL & GAS COMPANY LP	14538	
3. Address of Operator	CT TADAMICTON NR 6 07400	10. Pool name or Wildcat	
4. Well Location	ET, FARMINGTON, NM 87402	Basin Fruitland Coal	<del></del>
Unit Letter F 220	65 feet from the <u>North</u> line and	1555 feet from the West	line
Section 21	Township 32N Range		an Juan, NM
11. El	evation (Show whether DR, RKB, RT, GR, etc.)		
Pit or Below-grade Tank Application X	or Closure 6405'		
Pit type New Drill Depth to Groundwate	<b>—</b>	>1000' Distance from nearest surface w	rater < 1000'
'' <del></del> '	mil Below-Grade Tank: Volume	bbls; Construction Material	1000
			***************************************
_	opropriate Box to Indicate Nature of	· •	
NOTICE OF INT		SUBSEQUENT REPORT OF	
——————————————————————————————————————		DIAL WORK ENCE DRILLING OPNS. P AND A	IG CASING H
<b>—</b>	H I	G/CEMENT JOB	
OTHER: New D	rill X OTHE	₹:	П
13. Describe proposed or completed	operations. (Clearly state all pertinent details, a	d give pertinent dates, including estimated of	late
of starting any proposed work).	operations. (Clearly state all pertinent details, at SEE RULE 1103. For Multiple Completions:	d give pertinent dates, including estimated of ttach wellbore diagram of proposed comple	late tion
<ol> <li>Describe proposed or completed of starting any proposed work).</li> <li>or recompletion.</li> </ol>	operations. (Clearly state all pertinent details, and SEE RULE 1103. For Multiple Completions: A	d give pertinent dates, including estimated of trach wellbore diagram of proposed comple	late tion
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HIGHER OF CABLES ON MEIT IND AND OF ACCESS FOND AT LEAST TWO CD MORGING DAYS PRIOR TO CONSTRUCTION.

CONTRACTOR SHOULD CALL ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED BURIED.

HOTE VECTOR SYNEYS IS NOT LIMITE FOR UNDERGROUND UTILITIES OF PRIFEIRE.



RESERVE PIT DIKE. TO BE 8' ABOVE DEEP SIDE (OVERFLOW - 3' WIDE AND I' ABOVE SHALLOW SIDE).

LONGITUDE: 107-28.0242\*W

ATTORE

# SECTION 21, T-32- N, R-6-W, NMPM, SAN JUAN COUNTY, NM GROUND ELEVATION: 6405', DATE: JUNE 21, 2005 BURLINGTON RESOURCES OIL & GAS COMPANY LP

ELEV. A'-A	75
6425	
777	
2412	
6405	
6395	
ELEV. 8'-B	15
3678	
6415	
	N. S.
6405	
70Z7	
CACO	
ELEV. C'-C	25
6425	
777	
C140	
6405	
6395	

CONTRACTOR SHOVID CALL ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED BURIED PIPLINES OR CABLES ON WELL PAD AND OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION. NOTE: VECTOR SURVEYS IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES.

# OPERATIONS PLANS FOR FRUITLAND COAL WELLS

Well Name:

Allison Unit #1175

Location:

Unit F, 2265' FNL, 1555' FWL

Sec. 21 T-32-N, R-6-W San Juan County, NM Latitude 36° 58.0099'N Longitude 107° 28.0242'W

Formation:

Basin Fruitland Coal

Formation Tops:	<u>Тор</u>	<u>Bottom</u>	<u>Contents</u>
Surface	San Jose	2253'	
Ojo Alamo	2253'	2401'	aquifer
Kirtland	2401'	2989'	gas
Top/Fruitland Coal	2989'		gas
Base/Fruitland Coal	3083'		_
Intermediate TD	2939'		
Pictured Cliffs	3090'		gas
TD	3168'		-

This will be a single producing FC well, and is not an HPA well. Burlington requests permission to use the 85' into the Pictured Cliffs interval as a sump. There will be a mudlogger on site during drilling to verify PC gas insn't reached.

# Logging Program:

Mudlog from intermediate to TD Cores - none

### Mud Program:

Interval	<u>Type</u>	<u>Weight</u>	<u>Vis.</u>	Fluid Loss
0- 120'	Spud Mud/Air/Air Mist	8.4-9.0	40-50	no control
120'- 2939'	LSND/Clear Water/ Starch-Polymer	8.4-9.0	30-60	no control
2939' - 3168'	Air/Mist			

Circulating media will be contractor dependent.

Pit levels will be visually monitored to detect gain or loss of fluid control.

# Casing Program (as listed, the equivalent, or better):

Hole Size	Depth Interval	Csq.Size	<u>W†.</u>	Gnada
12 1/4"	0' - 120'	9 5/8"	<u>wr.</u> 32.3#	<u>Grade</u> H-40
8 3/4"	120' - 2939'	7"	20.0#	J-55
6 1/4"	2939'- 3168'	5 ½"	15.5#	J-55
			or open ho	ole

# Tubing Program:

0' - 3168'	2 3/8"	4.7#	J-55
------------	--------	------	------

### 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). 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).

Wellhead Equipment: 9.5/8"  $\times 7$ "  $\times 2.3/8$ "  $\times 11$ " 2000 psi xmas tree assembly.

### General -

- Pipe rams will be actuated once each day and blind rams will be actuated once each trip to test proper functioning.
- An upper kelly cock valve with handle available and drill string valves to fit each drill string will be available on the rig floors at all times.
- BOP pit level drill will be conducted weekly for each drilling crew.
- All BOP tests and drills will be recorded in daily drilling reports.
- Blind and pipe rams will be equipped with extension hand wheels.

### Cementing:

9 5/8" surface casing Pre-Set allow (11807) & 128 yield. 14.5 pg. 1.61 73 %. Cement with Type I, II cement with 20% flyash mixed at 15.3 ppg. 1.20 cement yield. (Bring cement to surface). Wait on cement for 24 hours for pre-set holes before pressure testing or drilling out from under surface.

9 5/8" surface casing Conventionally w/88sx (113cf) @ 1.28 yield.

Cement with Type III cement with 0.25 pps Celloflake, 3% calcium chloride. (200% excess, bring cement to surface). Wait on cement appropriate time until cement achieves 250 psi compressive strength at 60 degrees F. prior to nipple up of BOPE. Wait on cement for 8 hrs for conventionally set holes before pressure testing or drilling out from under surface. Test casing to 600 psi for 30 minutes.

Saw tooth guide shoe on bottom. Bowspring centralizers will be run in accordance with Onshore Order #2.

7" intermediate casing w/345sx (667cf - 10bbls slurry) @ 2.13 yield. Lead with Premium Lite HS FM w/3% CaCl2, 0.25#/sx Flocelle, 5#/sx LCM-1, 0.4% FL-52 & 0.4% SMS (50% excess to circulate to surface). WOC minimum of 8 hours before drilling out intermediate casing. If cement does not circulate to surface, a CBL or a temperature survey will be run to determine TOC. Test casing to 1500 psi for 30 minutes.

Cement nose guide shoe on bottom with float collar spaced on top of shoe joint. Bowspring centralizers spaced every other joint off bottom, to the base of the Ojo Alamo. Two turbolating centralizers at the base of the Ojo Alamo. Bowspring centralizers spaced every fourth joint from the base of the Ojo Alamo to the base of the surface casing.

Cementing cont.

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

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

 If hole conditions permit, an adequate water spacer will be pumped ahead of each cement job to prevent cement/mud contamination or cement hydration.

### Additional information:

- \* The Fruitland Coal formation will be completed.
- \* No abnormal temperatures or hazards are anticipated.
- \* Anticipated pore pressure for the Fruitland is less than 500 psi.
- \* This gas is dedicated.

Monty Myers - Drilling Engineer Date

reseure or greater encluding 600 pel ebippi

4-20-01

Figure 61

Pigure #2

4-20-01

# BURLINGTON

RESOURCES

Cavitation Rig
BOP Configuration
2,000 psi Minimum System

