UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

	APPLICATION FOR PERMIT TO DRILL,	DEEPEN, OR PLUG BACK
1a. 1b.	Type of Work DRILL Type of Well JAN 2006	5. Lease Number NMSF-078503 Unit Reporting Number 070 FARMINGTON IM 6. If Indian, All. or Tribe
	GAS	्रे ा
2.	Operator BURLINGTON 14538 PESDURCES Oil & Gas Company	7. Unit Agreement Name San Juan 29-7 Unit 7465
3.	Address & Phone No. of Operator	8. Farm or Lease Name .
	PO Box 4289, Farmington, NM 87499	9. Well Number #112%
4.	Location of Well Unit N (SESW), 160' FSL, 1930' FWL	10. Field, Pool, Wildcat Blanco Mesaverde/ Basin Dakota 723/9 7/599
,	Latitude 36° 41.4117'N Longitude 107° 35.7665'W	11. Sec., Twn, Rge, Mer. (NMPM) 8ec. 29, T29N, R07W API # 30-039- 2974-3
14.	Distance in Miles from Nearest Town 19.2 miles to Blanco, NM	12. County 13. State Rio Arriba MM
15.	Distance from Proposed Location to Nearest Property or Le	ase Line
16.	160' Acres in Lease	17. Acres Assigned to Well 320 W2 MV/DK
18.	Distance from Proposed Location to Nearest Well, Drlg, Co 1502' San Juan 29-7 Unit #112	mpl, or Applied for on this Lease
19.	Proposed Depth 7672'	20. Rotary or Cable Tools Rotary
21.	Elevations (DF, FT, GR, Etc.) 6491'GL	22. Approx. Date Work will Start
23.	Proposed Casing and Cementing Program See Operations Plan attached	
24.	Authorized by: Amanage Assista	1-10-06 Date
	OVED BY TITLE AC	Ling AFU DATE 127/0
Threat NOTE: Title 1:	eological Report attached tened and Endangered Species Report attached This format is issued in lieu of U.S. BLM Form 3160-3 8 U.S.C. Section 1001, makes it a entine for any person knowingly ar States any false, fictitious of fraudulent statements or presentations	

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

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

NWOCD

DISTRICT I 1625 N. French Dr., Hobbs, N.M. 88240

State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised June 10, 2003

DISTRICT II 1301 W. Grand Ave., Artesia, N.M. 88210

DISTRICT III 1000 Rio Brazos Rd., Aztec, N.M. 87410 OIL CONSERVATION DIVISION

1220 South St. Francis Dr. Santa Fe, NM .87505 AN 11

8 07

Submit to Appropriate District Office State Lease - 4 Copies

Fee Lease - 3 Copies

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

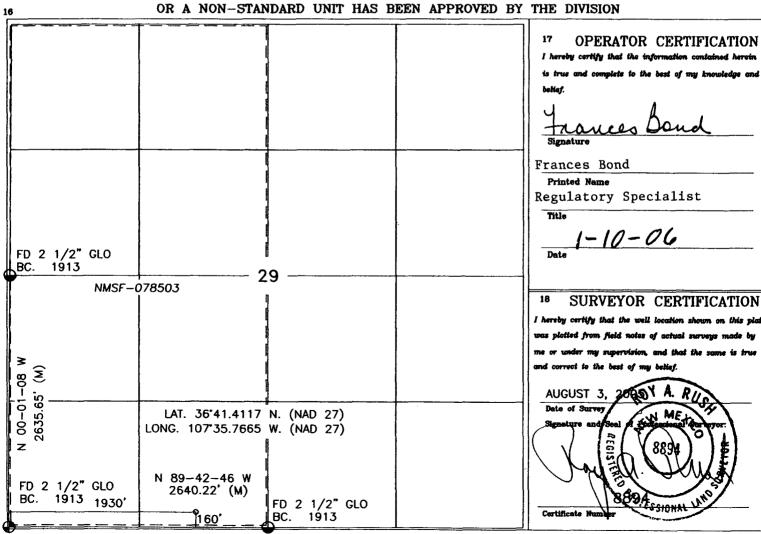
RECEIVED

☐ AMENDED REPORT

<u> </u>	WE	LL LOCATION AND	D ACREAGED DEDICATION PLAT	
30-039 - 29743 72319/71599		Blanco Mesaverde/Basin Dakota		
⁴ Property Code	⁶ Property Name			• Well Number
7465	SAN JUAN 29-7 UNIT			112N ~
OGRID No.		8(Operator Name	* Elevation
14538	BURLINGTON RESOURCES OIL & GAS COMPANY LP			6491

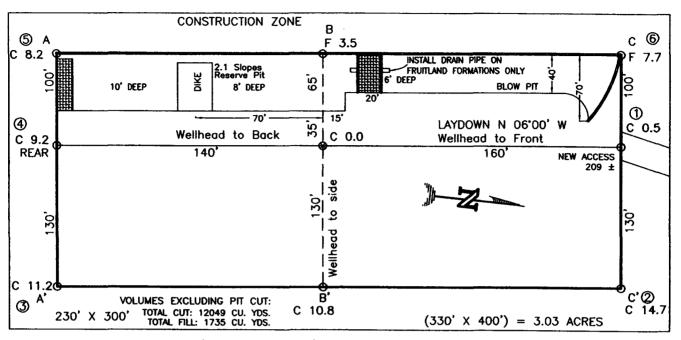
¹⁰ Surface Location Feet from the North/South line UL or lot no. Section Township Range Lot Idn Feet from the East/West line County Ν 29 29-N SOUTH 1930 160 7-W WEST RIO ARRIBA ¹¹ Bottom Hole Location If Different From Surface UL or lot no. Section Township Range Lot Idn Feet from the North/South line Feet from the East/West line County 18 Dedicated Acres 18 Joint or Infill 4 Consolidation Code ¹⁶ Order No. 320 W/2

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED

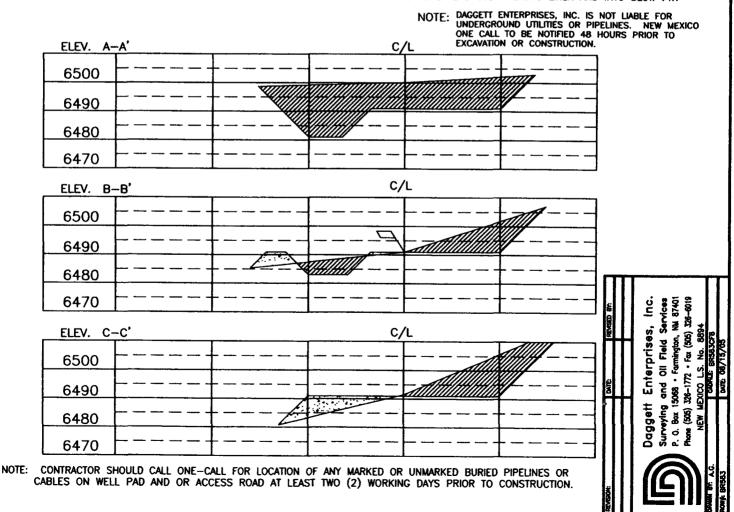


Submit 3 Copies To Appropriate District Office	State of New Mexico	Form C-103		
District I	Energy, Minerals and Natural Resources	May 27, 2004		
1625 N. French Dr., Hobbs, NM 88240		WELL API NO. 30-039- 29743		
District II 1301 W. Grand Ave., Artesia, NM 88210	OIL CONSERVATION DIVISION	5. Indicate Type 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.		
District IV	·	NMSF-078503		
1	ES AND REPORTS ON WELLS	7. Lease Name or Unit Agreement Name		
DIFFERENT RESERVOIR. USE "APPLICATION	TO DRILL OR TO DEEPEN OR PLUG BACK TO A ON FOR PERMIT" (FORM C-101) FOR SUCH	San Juan 29-7 Unit		
PROPOSALS.) 1. Type of Well:		8. Well Number		
Oil Well Gas Well X	Other	112N		
2. Name of Operator	OURCES OIL & GAS COMPANY LP	9. OGRID Number 14538		
3. Address of Operator	ORCES OIL & GAS COMPANT LP	10. Pool name or Wildcat		
	EET, FARMINGTON, NM 87402	Blanco Mesayerde/Basin Dakota		
4. Well Location Unit Letter N:	160 feet from the South line and	1930 feet from the West line		
Section 29	Township 29N Range 7W			
	Elevation (Show whether DR, RKB, RT, GR, etc.)			
Pit or Below-grade Tank Application	6491'			
Pit type New Drill Depth to Groundw		>1000' Distance from nearest surface water >1000'		
Pit Liner Thickness: n/a	mil Below-Grade Tank: Volume	bbls; Construction Material		
12 Charles		tion Danast or Other Data		
	Appropriate Box to Indicate Nature of No NTENTION TO:	SUBSEQUENT REPORT OF:		
PERFORM REMEDIAL WORK		AL WORK ALTERING CASING		
TEMPORARILY ABANDON	⊢ I	ICE DRILLING OPNS. P AND A		
PULL OR ALTER CASING	MULTIPLE COMPL CASING/	CEMENT JOB		
OTHER: New	Drill X OTHER:			
	ed operations. (Clearly state all pertinent details, and			
). SEE RULE 1103. For Multiple Completions: Atta	ch wellbore diagram of proposed completion		
or recompletion.				
New Drill, Unlined:				
, tow 21m, chance.				
Burlington Resources proposes to co	onstruct a new drilling pit and an associated vent/flare	pit. Based on Burlington's interpretation of the		
	e new drilling pit and vent/flare pit will be an unlined	•		
		e NMOCD office. A portion of the vent/flare pit will be		
- · · · · · · · · · · · · · · · · · · ·	portion will be unlined, as per the risk ranking criteriar Pit Closure Procedure dated August 2, 2004 on file ti			
		-		
I hereby certify that the information about	ove is true and complete to the best of my knowledge	and belief. I further certify that any pit or below-		
grade tank has been/will be constructed or clos	sed according to NMOCD guidelines, a general permit	or an (attached) alternative OCD-approved plan		
SIGNATURE Amounde	S			
	TITLE Reg	ulatory Assistant II DATE 9/28/2005		
Type or print name Amand For State Use Only		platory Assistant II DATE 9/28/2005 plate		

BURLINGTON RESOURCES OIL & GAS COMPANY LP SAN JUAN 29-7 UNIT No. 112N, 160 FSL 1930 FWL SECTION 29, T-29-N, R-7-W, N.M.P.M., RIO ARRIBA COUNTY, NEW MEXICO GROUND ELEVATION: 6491, DATE: AUGUST 3, 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.



OPERATIONS PLAN

Well Name:

SAN JUAN 29-7 UNIT 112N

Location:

160' FSL & 1930' FWL, Section 29 T29N R07W

Rio Arriba County, New Mexico

Formation:

Blanco Mesaverde/Basin Dakota

Elevation:

6491' GL

Formation Tops:	Top	<u>Bottom</u>	<u>Contents</u>
Surface	San Jose	2273 '	
Ojo Alamo	2273 '	2398 '	aquifer
Kirtland	2398'	2985 '	gas
Fruitland Coal	2985'	3190'	gas
Pictured Cliffs	3190'	3330'	gas
Lewis	3330'	3808'	
Huerfanito Bentonite	3808'		
Chacra	4151'	4826'	gas
Massive Cliff House	4826'	4951'	gas
Menefee	4951'	5391'	gas
Massive Point Lookout	5391'	5888 '	gas
Mancos Shale	5888'	6631'	
Upper Gallup	6631'	7356'	gas
Greenhorn	7356'	7413'	gas
Graneros	7413'	7449'	gas
Two Wells	7449'	7579 '	gas
Upper Cubero	7579 '	7603 '	gas
Lower Cubero	7603 '	7672 '	gas
Encinal	7672'	7672 '	gas
Total Depth:	7672 '		gas

Logging Program:

Open hole - none

Cased hole - Gamma Ray, CBL - surface to TD

Mud Program:

<u>Interval</u>	<u>Type</u>	Weight	<u>Vis.</u>	Fluid Loss
0 - 200'	Spud MUD/Air/Air Mist	8.4 - 9.0	40 - 50	no control
200- 3430'	LSND	8.4 - 9.0	30 - 60	no control
3430 - 7672'	Air/Air Mist/Nitrogen	n/a	n/a	n/a

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

<u> Hole Size</u>	Depth Interval	<u>Csg.Size</u>	<u>Wt.</u>	<u>Grade</u>
12 1/4"	0' - 200'	9 5/8"	32.3#	H-40
8 3/4"	0' - 3430'	7"	20/23#	J-55
6 1/4"	0' - 7672'	4 1/2"	10.5#	J-55

Tubing Program:

Depth Interval	<u>Csg.Size</u>	<u>Wt.</u>	<u>Grade</u>
0' - 7672'	2 3/8"	4.7#	J-55

BOP Specifications, Wellhead and Tests:

Surface to Intermediate TD -

11" 2000 psi minimum double gate BOP stack (Reference Figure #1). After nipple-up prior to drilling out surface casing, rams and casing will be tested to 600 psi for 30 minutes.

Intermediate TD to Total Depth -

11" 2000 psi minimum double gate BOP stack (Reference Figure #1). After nipple-up prior to drilling out intermediate casing, rams and casing will be tested to 1500 psi for 30 minutes.

Surface to Total Depth -

2" nominal, 2000 psi minimum choke manifold (Reference Figure #3).

Completion Operations -

7 1/16" 2000 psi double gate BOP stack (Reference Figure #2). After nipple up prior to completion, pipe rams, casing and liner top will be tested to 2000 psi for 15 minutes.

Wellhead -

9 5/8" x 7" x 4 ½" x 2 3/8" x 2000 psi 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 drill crew.
- All BOP tests & 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 Drilled - Cement with 23 sx Type I, II cement with 20% flyash mixed at 14.5 ppg, 1.61 cu ft per sack yield. (38 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 88 sx Type III cement with 0.25 pps Celloflake, 2% CaCl. (113 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. 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

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

surface. Test casing to 600 psi for 30 minutes.

7" intermediate casing -

Lead with 302 sacks Premium Lite cement with 3% calcium chloride, 0.25 pps Celloflake, 5 pps LCM-1, 0.4% fluid loss, 0.4% sodium metasilicate. Tail w/90 sacks Type III cmt w/1% calcium chloride, 0.25 pps Celloflake, 0.2% fluid loss (124 cu ft 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.

7" intermediate casing alternative two stage -

Stage collar set 300' above the top of the Fruitland. First stage: Lead w/21 sacks Premium Lite cement with 3% calcium chloride, .25 pps celloflake, 5 pps LCM-1, 0.4% fluid loss. Tail w/90 Type III cmt w/1% calcium chloride, 0.25 pps Celloflake, 0.2% fluid loss. Second stage: 281 sacks Premium Lite cement with 3% calcium chloride, .25 pps celloflake, 5 pps LCM-1, 0.4% fluid loss, 0.4% sodium metasilicate (599 cu ft - 50% excess to circulate to surface).

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 @ 2398'. Two turbolating centralizers at the base of the Ojo Alamo @ 2398'. Bowspring centralizers spaced every fourth joint from the base of the Ojo Alamo to the base of the surface casing.

4 1/2" Production Casing -

Pump 277 sxs Premium Lite HS FM w/0.25 pps celloflake, 0.3% CD-32, 6.25 pps LCM-1, 1% fluid loss, 6% gel, 7 pps CSE (549 cu.ft., 30% excess to achieve 100' overlap in 4-1/2" x 7" annulus). WOC a minimum of 18 hrs prior to completing.

Cementing: Continued

Cement float collar stacked on top of float shoe.

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

Cement nose guide shoe on bottom with float collar spaced on top of shoe joint. The liner hanger will have a rubber packoff.

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

Special Drilling Operations (Air/Mist Drilling):

The following equipment will be operational while air/mist drilling:

- An anchored blooie line will be utilized to discharge all cuttings and circulating medium to the blow pit a minimum of 100' from the wellhead.
- The blooie line will be equipped with an automatic igniter or pilot light.
- Compressors will be located a minimum of 100' from the wellhead in the opposite direction from the blooie line.
- Engines will have spark arresters or water cooled exhaust.
- The rotating head will be properly lubricated and maintained.
- A float valve will be utilized above the bit.
- Mud circulating equipment, water, and mud materials will be sufficient to maintain control of the well.

Additional Information:

- The Mesa Verde and Dakota formations will be completed and commingled.
- No abnormal temperatures or hazards are anticipated.
- Anticipated pore pressures are as follows:

Fruitland Coal 300 psi
Pictured Cliffs 600 psi
Mesa Verde 700 psi
Dakota 2000 psi

- Sufficient LCM will be added to the mud system to maintain well control, if lost circulation is encountered below the top of the Pictured Cliffs.
- The west half of Section 29 is dedicated to the Mesa Verde formation and Dakota formation.
- This gas is dedicated.



Minimum BOP translation for all Completion/Workover Operations, 7-1/16" born, 2000 pel minimum working presenter double gate BOP to be equipped with blind encippe rems. A stripping head to be installed on the top of the BOP. All BOP equipment is 2000 pel working presenter or greater enchaling-500 pel eduping head.

Figure #3

10-02-4

Figure #1

10-02-0