UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

			<u> </u>	<u>\{\}</u>
1a.	Type of Work DRILL	2000 HUO ZZ FTT Z	Luse Number NMSF-07936	5 36217070
	DRIBE	RECENSO	Unit Departing Num	har
		070 FARMMOTTH	NW NW - 678	14120
1b.	Type of Well		NMNM 67 8	De
	GAS	•		
2.	Operator		7. Unit Agreement Na	me
	<u>Burlington</u>			
	RESOURCES Oil & Gas Co	mpany	San Juan 28-6	Unit
3.	Address & Phone No. of Operator		8. Farm or Lease Nam	e
	PO Box 4289, Farmington	ı, NM 87499		
			9. Well Number	
	(505) 326-9700		#168E	
4.	Location of Well		10. Field, Pool, Wildca	nt .
	Unit L (NWSW), 1365' FSL,	, 485' FWL	Basin Dakota	
			11. Sec., Twn, Rge, M	er. (NMPM)
	Latitude 36° 34.2535'N		∠ Sec. 14, T27N, R	
	Longitude 107° 26.5960'W			
			API# 30-039- 300	943
14.	Distance in Miles from Nearest Tow		12. County	13. State
	52 miles to Bloomfield, N	IM	Rio Arriba	NM
15.	Distance from Proposed Location to	o Nearest Property or Lease L	ine	
	485'			
16.	Acres in Lease		17. Acres Assigned to 316.57 S/2	
18.	Distance from Proposed Location to	Nearest Well, Drig, Compl,	or Applied for on this Lease	
	800'- San Juan 28-6 Unit	#6		
19.	Proposed Depth		20. Rotary or Cable To	oois
	7628′		Rotary	
21.	Elevations (DF, FT, GR, Etc.)		22. Approx. Date Wo	rk will Start
	6466'GL			
23.	Proposed Casing and Cementing Pr	ogram	ووسا فالراح التاليب والتي والمراوي التي والمراوي التي والمراوية	
	See Operations Plan att	racited 1		
	Λ.		9 22	() (
24.	Authorized by:	20 Janok	7.26-	06
	Regulatory Ar	nalyst	Date	
	T NO			,
PERM	IT NO.	APPROVAL I	DATE	
APPR	OVED BY AMELES	OF OTITLE AF	M DATE_	9/1/06
Archa	eological Report attached			
	tened and Endangered Species Report	attached . /		
	This format is issued in lieu of U.S. BLM			

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.

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

DISTRICT I 1625 N. French Dr., Hobbs, N.M. 68240

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

16

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

¹ API Number 30-039-	30043	*Pool Code 71599	⁸ Pool Name DAKOTA	
⁴ Property Code		⁶ Property Name		
7462	SAN JUAN 28-6 UNIT			168 E
OGRID No.		*Op	erator Name	° Elevation
14538		BURLINGTON RE	SOURCES O&G CO LP	6466'

¹⁰ Surface Location

UL or lot no.	Section 14	Township 27N	Range 6W	Lot Idn	Feet from the 1365'	North/South line SOUTH	Feet from the 485'	East/West line 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
L									
18 Dedicated Acre	3		¹⁵ Joint or	infill	4 Consolidation C	ode	¹⁵ Order No.		
210.57) Acres —	(S/2)							

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

	1	' 	
	L		L
:			,
		 	
J-1/4" BC		4	
€	LAT, 36.57090 N. (NAC	83)	
2591.82	LONG. 107:44387 W (NAD 83)	
87	LAT. 36'34.2535'. N (N LONG. 107'26.5960'. W	AD 27) (NAD 27)	
85' 			
4 . jo.	LEASE #USA SF-	079365	
N 0.41			
/4" BC S 89:51:53" 1955 S 89:47 W	W 2634.54' (M) 2633.40' (R)	FND 3-1/4" BC	

7	OPE	RAT	OR	CER	TIFICA	MOITA
hareby	certif	y that	the inf	ormation	a contained	herein
true	and co	molete	to the	best of	my knowle	doe and

sy Clugston

ed Name

Regulatory Specialist

SURVEYOR CERTIFICATION

ted from field notes of actual surveys made by nder my supervision, and that the same is true sect to the best of my belief.

JUNE 27, 2006



10201

Submit 3 Copies To Appropriate District Office	State of New Mexico	Form C-103
District I	Energy, Minerals and Natural Resources	
1625 N. French Dr., Hobbs, NM 88240	inorgy, minorals and realistic resources	WELL API NO. 2012
District II	OIL CONCEDE FEON DIVISION	30-039 - 3043
1301 W. Grand Ave., Artesia, NM 88210	OIL CONSERVATION DIVISION	To marcare type of Escale
District III	1220 South St. Francis Dr.	STATE FEE
1000 Rio Brazos Rd., Aztec, NM 87410 <u>District IV</u>	Santa Fe, NM 87505	6. State Oil & Gas Lease No.
1220 S. St. Francis Dr., Santa Fe, NM 8750		SF-079365
	ES AND REPORTS ON WELLS TO DRILL OR TO DEEPEN OR PLUG BACK TO A	7. Lease Name or Unit Agreement Name
DIFFERENT RESERVOIR. USE "APPLICATION		San Juan 28-6 Unit
PROPOSALS.)	, , , , , ,	Sun Juan 20-0 Ome
1. Type of Well:		8. Well Number
Oil Well Gas Well X	Other	168E
2. Name of Operator	OURCES OIL & GAS COMPANY LP	9. OGRID Number 14538
3. Address of Operator	ORCES OF & GAS COMPANT E	10. Pool name or Wildcat
3401 E. 30TH STR	EET, FARMINGTON, NM 87402	Dakota
4. Well Location	2/61 6 6 4 6 4 11 1	4061
Unit Letter L : 1 Section 14	365' feet from the South line and Township 27N Rng 6'	W NMPM County Rio Arriba
Committee and the committee an	Elevation (Show whether DR, RKB, RT, GR, etc.)	W MINITY County Rio Africa
	6466'	
Pit or Below-grade Tank Application	or Closure	
Pit type New Drill Depth to Groundw	vater >100 Distance from nearest fresh water well	>1000' Distance from nearest surface water >1000
Pit Liner Thickness: NA	mil Below-Grade Tank: Volume	bbls; Construction Material
12. Check A	Appropriate Box to Indicate Nature of N	otice, Report or Other Data
NOTICE OF IN	ITENTION TO:	SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK	PLUG AND ABANDON REMED	IAL WORK ALTERING CASING
TEMPORARILY ABANDON		NCE DRILLING OPNS. P AND A
PULL OR ALTER CASING	MULTIPLE COMPL CASING	G/CEMENT JOB
OTHER: New	Drill X OTHER:	: Г
13. Describe proposed or complete	ed operations. (Clearly state all pertinent details, and	d give pertinent dates, including estimated date
). SEE RULE 1103. For Multiple Completions: At	tach wellbore diagram of proposed completion
or recompletion.		
New Drill, Unlined:		
	onstruct a new drilling pit and an associated vent/flar	
	e new drilling pit and vent/flare pit will be an unline	· · · · · · · · · · · · · · · · · · ·
<u>-</u>		he NMOCD office. A portion of the vent/flare pit will be
	portion will be unlined, as per the risk ranking criter Pit Closure Procedure dated August 2, 2004 on file	ria. Burlington Resources anticipates closing these pits
according to the Diffing / Workover	The Closure Frocedure dated August 2, 2004 on the	that the NWIOCD office.
	ove is true and complete to the best of my knowledge	
grade tank has becareful be constructed of clos	ed according to NMOCD guidelines, a general permit	or an (attached) anerhative OCD-approved plan
SIGNATURE OF	TITLE Sr.	Regulatory Specialist DATE 8/17/2006
	THE SI.	Regulatory Specialist DATE 0/1//2000
Type or print name Patsy For State Use Only	Clugston E-mail address: pclugsto	on@br-inc.com Telephone No. 505-326-9518

APPPROVED BY
Conditions of Approval (if any):

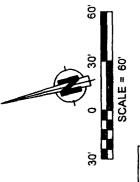
TITLE SEPUTY OIL & GAS INSPECTOR, DIST. @ DATE SEP 0 5 2006

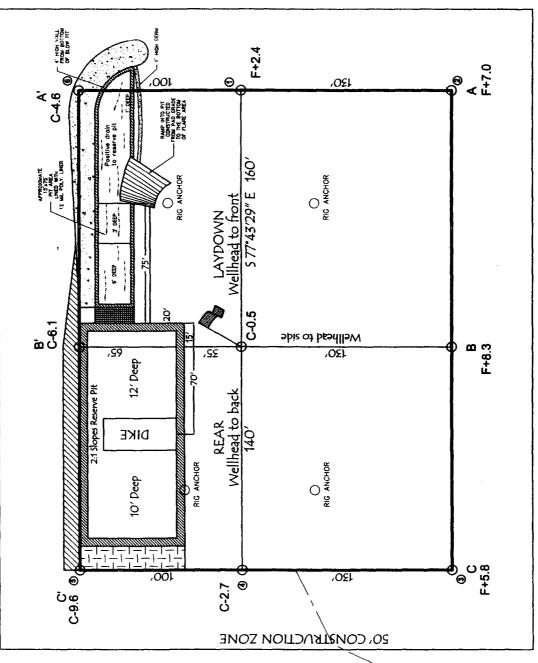
LONGITUDE: 107.44387°W LATITUDE: 36.57090°N DATUM: NAD 83

BURLINGTON RESOURCES O&G CO LP

GROUND ELEVATION: 6466', NAVD 88 RIO ARRIBA COUNTY, NEW MEXICO SECTION 14, T27N, R6W, N.M.P.M., LOCATED IN THE NW/4 SW/4 OF SAN JUAN 28-6 UNIT 168 E 1365' FSL & 485' FWL

FINISHED PAD ELEVATION: 6465.1, NAVD 88





185 LF OF NEW ACCESS FROM EXISTING ROAD

330' X 400' = 3.03 ACRES OF DISTURBANCE

JOB No.: COPC020 DATE: 06/29/06

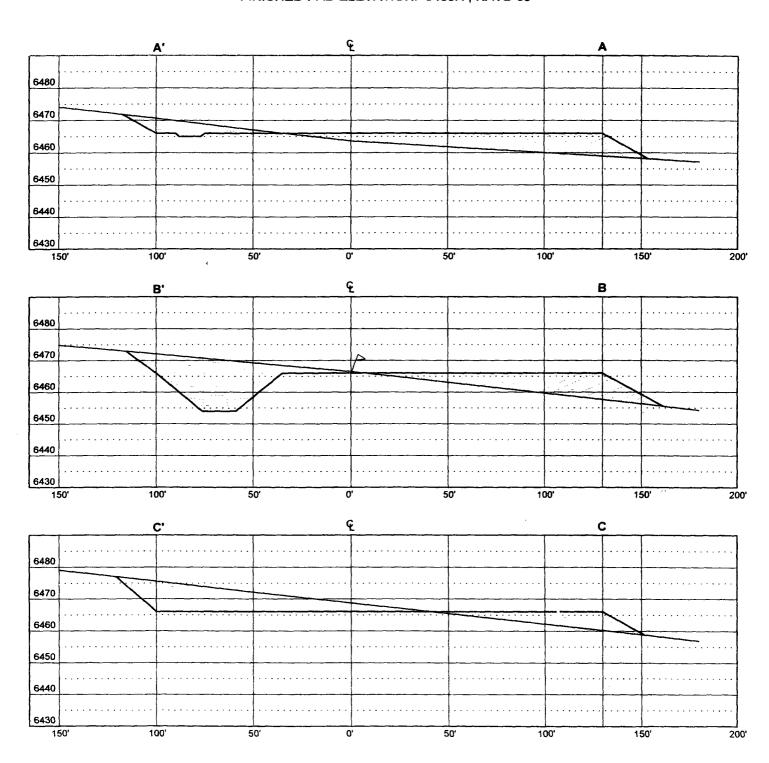
SCALE: 1" = 60'

RESERVE PIT DIKE: TO BE 8' ABOVE DEEP SIDE (OVERFLOW — 3' WIDE AND 1' ABOVE SHALLOW SIDE).
RUSSELL SURVEYING, INC. IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES.
CONTRACTOR SHOULD CALL ONE—CALL FOR LOCATION OF ANY MARKED OR UNMARKED, BURIED PIPELINES OR
CABLES ON WELL PAD, IN CONSTRUCTION ZONE AND/OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR
TO CONSTRUCTION. NOTE



BURLINGTON RESOURCES O&G CO LP

SAN JUAN 28-6 UNIT 168 E
1365' FSL & 485' FWL
LOCATED IN THE NW/4 SW/4 OF
SECTION 14, T27N, R6W, N.M.P.M.,
RIO ARRIBA COUNTY, NEW MEXICO
GROUND ELEVATION: 6466', NAVD 88
FINISHED PAD ELEVATION: 6465.1', NAVD 88



VERT. SCALE: 1" = 30' HORZ. SCALE: 1" = 50' JOB No.: COPC020 DATE: 06/29/06





OPERATIONS PLAN

Well Name:

SAN JUAN 28-6 UNIT 168E

Location:

1365' FSL & 485' FWL, Section Sec 14 T27N R06W

Rio Arriba County, New Mexico

Formation: Elevation:

Dakota

6466' GL

Formation Tops:	Top	Bottom	<u>Contents</u>
Surface	San Jose	2543'	
Ojo Alamo	2543 '	2623 '	aquifer
Kirtland	2623 '	3060'	gas
Fruitland Coal	3060'	3170'	gas
Pictured Cliffs	3170'	3285'	gas
Lewis	3285'	3690'	
Huerfanito Bentonite	3690'		
Chacra	4130'	4875'	gas
Massive Cliff House	4875'	4958'	gas
Menefee	4958'	5331'	gas
Massive Point Lookout	5331'	5803 '	gas
Mancos Shale	5803'	6545'	
Upper Gallup	6545'	7299'	gas
Greenhorn	7299'	7360'	gas
Graneros	7360'	7396'	gas
Two Wells	7396'	7504'	gas
Upper Cubero	7504'	7542 '	gas
Lower Cubero	7542'	7628'	gas
Encinal	7628'	7628'	gas
Total Depth:	7628'		gas

Logging Program:

Mud Logs/Coring/DST

Mud logs - none

Coring - none

DST - none

Open hole - none

Cased hole - Gamma Ray, CBL - surface to TD

Mud Program:

<u>Interval</u>	Type	<u>Weight</u>	<u>Vis.</u>	Fluid Loss
0 - 120'	Spud MUD/Air/Air Mist	8.4 - 9.0	40 - 50	no control
120'- 3385'	LSND	8.4 - 9.0	30 - 60	no control
3385' - 7628'	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' - 120'	9 5/8"	32.3#	H-40
8 3/4"	0' - 3385'	7"	20#	J-55
6 1/4"	0' - 7628'	4 1/2"	10.5#/11.6#	J-55

Tubing Program:

Depth Interval	<u>Csg.Size</u>	<u>Wt.</u>	<u>Grade</u>
0' - 7628'	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, BOPE 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, BOPE 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 $\frac{1}{2}$ " 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 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 -

Lead with 297 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/8 sacks Premium Lite cement with 3% calcium chloride, .25 pps celloflake, 5 pps LCM-1, 0.4% fluid loss. Tail w/90 sxs Type III cmt w/1% calcium chloride, 0.25 pps Celloflake, 0.2% fluid loss. Second stage: 289 sacks Premium Lite cement with 3% calcium chloride, .25 pps celloflake, 5 pps LCM-1, 0.4% fluid loss, 0.4% sodium metasilicate (757 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 @ 2623'. Two turbolating centralizers at the base of the Ojo Alamo @ 2623'. 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 278 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 (550 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:

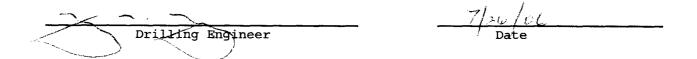
- An anchored blooie line will be utilized to discharge all cuttings and circulating medium to the blow pit a minimum of 100' from the wellhead.
- The blooie line will be equipped with an automatic igniter or pilot light.
- Compressors will be located a minimum of 100' from the wellhead in the opposite 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:

- This will be a Dakota only.
- 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 South half of Section 14 is dedicated to the Dakota formation.
- This gas is dedicated.



BURLINGTON RESOURCES

Completion/Workover Rig BOP Configuration 2,000 pal System

Drilling Rig Choke Menifold Configuration 2000 pel System

Burlington Resources

2000 psi System

Drilling Rig

Fe T 3

Point to Total Depth. 2,000pel working pressure Choke menitols installation from Surface Casing equipment with two chokes.

Figure #3

staure double gate BOP to be equipped with blind and tipe rams. A stripping head to be installed on the top of Operations. 7-1/16" bore, 2000 pei minimum working Minimum BOP insustation for att Completion/Workow preseure or gracter excluding 600 pel ethipling head. the BOP. All BOP equipment is 2000 pail working

10-02-4

Figure #2

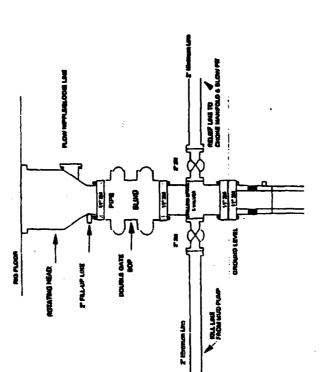


Figure #1

4-20-01