UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

	APPLICATION FOR PERMIT TO DRILL, DEEPER	2008 BUG 8 BB 8 1
а.	Type of Work DRILL	5. Lease Number NMSF-079363
		Unit Reporting Number
b.	Type of Well GAS GAS	6. If Indian, All. or Tribe
	Operator BURLINGTON	7. Unit Agreement Name
	RESOURCES Oil & Gas Company, LP	San Juan 28-6 Unit
	Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499	8. Farm or Lease Name
	(505) 326-9700	9. Well Number #158E
•	Location of Well Unit H (SENE), 1445' FNL & 940' FEL,	10. Field, Pool, Wildcat Basin Dakota
	Latitude 36° 35.5128'N	11. Sec., Twn, Rge, Mer. (NMPM) Sec. 11, T27N, R06W
	Longitude 107° 25.7946'W	API# 30-039- 30020
4.	Distance in Miles from Nearest Town	12. County 13. State San Juan NM
5.	Distance from Proposed Location to Nearest Property or Lease Line	9
6.	Acres in Lease	17. Acres Assigned to Well DK - 3 16.5 6 N/2 37.0
В.	Distance from Proposed Location to Nearest Well, Drlg, Compl, or	Applied for on this Lease
9.	Proposed Depth 7800'	20. Rotary or Cable Tools Rotary
1.	Elevations (DF, FT, GR, Etc.) 6588'' GL	22. Approx. Date Work will Start
3.	Proposed Casing and Cementing Program See Operations Plan attached	
4.	Authorized by: Tutsy Cluston Sr. Regulatory Specialist	8-7-06 Date
ERMI	T NO. APPROVAL DA	ATE
PPRO	OVED BY TITLE Feing	AM Munchate 8/11/0
	eological Report attached	
neat	tened and Endangered Species Report attached This format is issued in lieu of U.S. BLM Form 3160-3	

This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and acres from the 43 CFR 3165.4

NWOCD

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

DRILLING OPERATIONS AUTHORIZED AFFE' SUBJECT TO COMPLIANCE WITH ATTACHED "SCNERAL REQUIREMENTS".

DISTRICT I 1825 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

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

DISTRICT IV 2040 South Pacheco, Santa Fe, NM 67505 ☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

144° 30-039-	Number 300	20	i i	*Pool Code 599	*Pool Name DAKOTA				
Property C	!	Property Name			9 1		Yell Number		
7462	2 SAN JUAN 28-6 UNIT				158 E				
'одя л о. 14538			*Operator Name BURLINGTON RESOURCES O&G CO LP				Elevation 6588		
	······································				¹⁰ Surface	Location			
UL or lot no.	Section 11	Township 27N	Range 6W	Lot Idn	Feet from the 1445'	North/South line NORTH	Feet from the 940'	East/West line EAST	County RIO ARRIBA
		11 Botte	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/Vest line	County
S Dedicated Acres 320 316.56 Acres — (N/2)		18 Joint or	infill	¹⁶ Consolidation Code ¹⁵ Order No.					

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

	A	
FNO. 3-1/4" BC BLM -1855	S 89'58'18" W 2649.42' (M) PND 3-1/4" BC GM 1985 C S 89'56" W 2649.24" (R)	17 OPERATOR CERTIFICATION I haveby certify that the information contained havein to true and complete to the best of my knowledge and belief
LEASE #	USA SF-079363 \$	Latsy Clush
		Patsy Clugston Printed Name
	36'35.5126' N (NAD 27) 940'	Sr. Regulatory Specialist
	36:59191" N. CNAD: 831	Title
	107.43053' W (MAD 83)	6/26/06
	2.2	Date
	5223.p0 5223.p0	18 SURVEYOR CERTIFICATION
		I hereby certify that the well location shown on this plat
	4 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 3 3 3 3	sees pletted from field notes of actual surveys made by me or under my supervision, and that the same is true
		and correct to the best of my belief.
	tot a	JUNE 15, 2006
	. 10. 3.3.	Date of Survey
	N 01'01' 01'06'39'	Signature and Seel of Professional Surveyor:
	z	Philipping and services
	1	
		(A) (See 1997)
		DAVID CHSSELL
	FN0 3-1/4" 8C SUM 1955	Certificate Number 10201
		1

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. 30-045- 30000
District II	OIL CONSERVATION DIVISION	5 Indicate Time of Legge
1301 W. Grand Ave., Artesia, NM 88210 District III	1220 South St. Francis Dr.	5. Indicate Type of Lease STATE FEE
1000 Rio Brazos Rd., Aztec, NM 87410	Santa Fe, NM 87505	6. State Oil & Gas Lease No.
District IV	Sama 1.6, 19191 0/303	
1220 S. St. Francis Dr., Santa Fe, NM 87505		
	S AND REPORTS ON WELLS O 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.)		
1. Type of Well:		8. Well Number
Oil Well Gas Well X	Other	#158E
2. Name of Operator	JRCES OIL & GAS COMPANY LP	9. OGRID Number 14538
3. Address of Operator	ACLS OIL & GAS COMITAIN I LF	10. Pool name or Wildcat
	ET, FARMINGTON, NM 87402	Basin Dakota
4. Well Location	450	
Unit Letter H : 14 Section 11	45' feet from the North line and Township 27N Rng 6V	940' feet from the <u>East</u> line V NMPM County Rio Arriba
	levation (Show whether DR, RKB, RT, GR, etc.)	V 141911 191 COUNTY RIO ATTION
	6588'	
Pit or Below-grade Tank Application	or Closure	
Pit type New Drill Depth to Groundwa	ter >100' Distance from nearest fresh water well	>1000' Distance from nearest surface water >1000
Pit Liner Thickness: n/a	mii Below-Grade Tank: Volume	bbls; Construction Material
12 Check A	ppropriate Box to Indicate Nature of No	otice Report or Other Data
NOTICE OF IN		SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK	\	AL WORK ALTERING CASING
TEMPORARILY ABANDON	CHANGE PLANS	NCE DRILLING OPNS. PAND A
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LATITUDE: 36.59191°N LONGITUDE: 107.43053°W DATUM: NAD 83

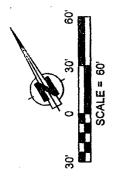
BURLINGTON RESOURCES O&G CO LP

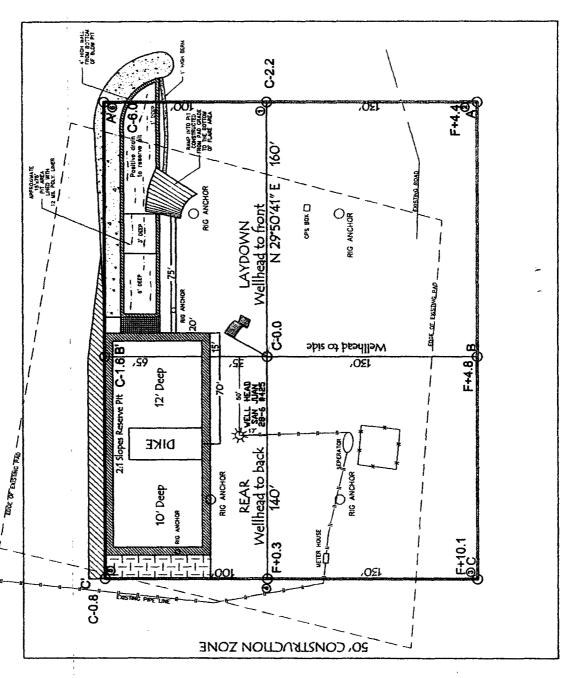
SAN JUAN 28-6 UNIT #158 E 1445' FNL & 940' FEL

LOCATED IN THE SE/4 NE/4 OF SECTION 11,

T27N, R6W, N.M.P.M., RIO ARRIBA COUNTY, NEW MEXICO GROUND ELEVATION: 6588', NAVD 88

FINISHED PAD ELEVATION: 6588.4', NAVD 88





NOTE:
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.

Aztec, New Moxico 87410

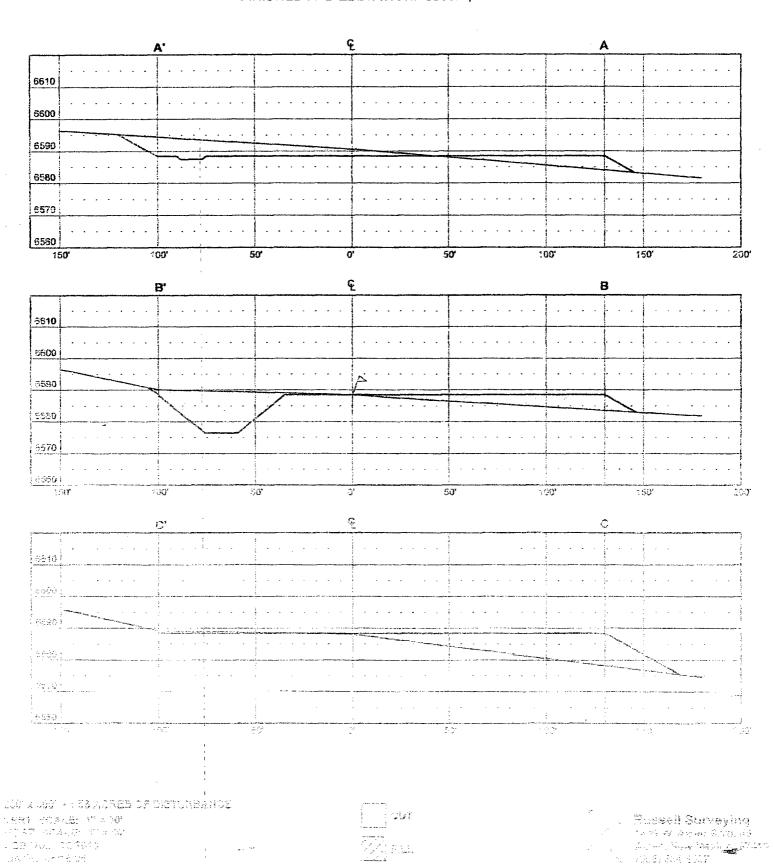
505) 334-8637

Russell Surveying 1409 W. Aztec Blvd. #5

> SCALE: 1"= 60' JOB No.: COP010 DATE: 06/16/06

BURLINGTON RESOURCES O&G CO LP

SAN JUAN 28-6 UNIT #158 E
1445' FNL & 940' FEL
LOCATED IN THE SE/4 NE/4 OF SECTION 11,
T27N, R6W, N.M.P.M.,
RIO ARRIBA COUNTY, NEW MEXICO
GROUND ELEVATION: 6588', NAVD 88
FINISHED PAD ELEVATION: 6588.4', NAVD 88



OPERATIONS PLAN

Well Name:

San Juan 28-6 Unit #158E

Location:

Unit H (SENE), 1445' FNL & 940' FEL, Section 11, T27N, R6W

Rio Arriba County, NM

Formation: Elevation: Basin Dakota

.6588' GL

Surface	San Jose		
Surface	San Jose	2707'	
Ojo Alamo	2707'	2807'	aquifer
Kirtland	2807'	3230'	gas
Fruitland	3230'	3345'	gas
Pictured Cliffs	3345'	3463'	gas
Lewis	3463'	3854'	
Huerfanito Bentonite	3854'	4291'	
Chacra	4291'	4997'	gas
Massive Cliff House	4997'	5118'	gas
Menefee	5118'	5517'	gas
Massive Point Lookout	5517'	6003'	gas
Mancos Shale	6003'	6722'	
Upper Gallup	6722'	7467'	gas
Greenhorn	7467'	7532'	gas
Graneros	7532'	7560'	gas
Two Wells	7560'	7683'	gas
Paguate	7683'	7723'	gas
Cubero	7723'	7800'	gas
Encinal	7800'	7800'	gas
Total Depth:	7800'		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:

Type	<u>Weight</u>	<u>Vis.</u>	Fluid Loss
Spud MUD/Air/Air Mist	8.4 - 9.0	40 - 50	no control
LSND	8.4 - 9.0	30 - 60	no control
Air/Air Mist/Nitrogen	n/a	n/a	n/a
the equivalent, or bette	er):		
Depth Interval	<u>Csg.Size</u>	<u>Wt.</u>	<u>Grade</u>
0' - 120'	9 5/8"	32.3#	H-40
0' - 3563'	7"	20#	J-55
0' - 7800'	4 1/2"	10.5#/11.6#	J-55
1			
	Spud MUD/Air/Air Mist LSND Air/Air Mist/Nitrogen the equivalent, or bette Depth Interval 0' - 120' 0' - 3563'	Spud MUD/Air/Air Mist 8.4 - 9.0 LSND 8.4 - 9.0 Air/Air Mist/Nitrogen n/a the equivalent, or better): Depth Interval Csq.Size 0' - 120' 9 5/8" 0' - 3563' 7"	Spud MUD/Air/Air Mist 8.4 - 9.0 40 - 50 LSND 8.4 - 9.0 30 - 60 Air/Air Mist/Nitrogen n/a n/a the equivalent, or better): Depth Interval Csq.Size Wt. 0' - 120' 9 5/8" 32.3# 0' - 3563' 7" 20#

VANTARA LYANTA

<u>Depth Interval</u>	<u>Csg.Size</u>	<u>Wt.</u>	<u>Grade</u>
0' - 7800'	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).

- T

Completion Operations -

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

<u> Wellhead -</u>

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 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 316 sacks Premium Lite cement with 3% calcium chloride, 0.25 pps Celloflake, 5 pps LCM-1, 0.4% fluid loss, 0.4% sodium metasilicate (673 cu ft 50% excess to circulate to surface. 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/9 sacks Premium Lite cement with 3% calcium chloride, .25 pps celloflake, 5 pps LCM-1, 0.4% fluid loss (19 cu ft 50% excess to circulate to surface. Tail w/90 sxs Type III cmt w/1% calcium chloride, 0.25 pps Celloflake, 0.2% fluid loss. Second stage: _307 sacks Premium Lite cement with 3% calcium chloride, .25 pps celloflake, 5 pps LCM-1, 0.4% fluid loss, 0.4% sodium metasilicate (797 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 @ 2807'. Two turbolating centralizers at the base of the Ojo Alamo @ 2807'. 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 $4-1/2" \times 7"$ 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:

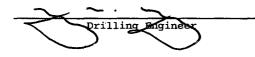
- An anchored blooie line will be utilized to discharge all cuttings and circulating medium to the blow pit a minimum of 100' from the wellhead.
- The blooie line will be equipped with an automatic igniter or pilot light.
- Compressors will be located a minimum of 100' from the wellhead in the opposite 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 Dakota & Mesaverde formations will be completed.
- 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 north half of Section 11 is dedicated to the DK formation
- This gas is dedicated.





Drilling Rig Choke Manifold Configure 2000 psi System

Buritngton Resources

2000 pel System **Drilling Rig**

R00 PL00A

BURLINGTON RESOURCES

DOUBLE GATE

ENTER THE

Point to Total Depth. 2,000pel working presenter

Figure #3

4-20-01

Figure #1

penama. A stripping head to be installed on the top of erettons. 7-1/16" bore, 2000 pel minimum world he BOP. All BOP equipment is 2000 pet world: sure double gate BOP to be equi Winimum BOP installation for all Con Physics #2