# UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

		AAR JIII 18	PM 12 15
la.	Type of Work DRILL	5. Lease Nur	
	DRILL		0794:03 rting Number
		070 F 5 5 5	INGIUM NA LA
b.	Type of Well AUG 2006	6. If Indian,	A - <i>0 78409件・</i> リベ All. or Tribe
	المسيس المناسل الماسي ا		
	GAS (S.DIN. 3	5	
	Operator Significant Significa	7. Unit Agree	ement Name
	BURLINGTON		
!	PESOURCES Oil & Gas Company	San Juar	n 27-5 Unit
	Address & Phone No. of Operator	8. Farm or Lo	ease Name
	PO Box 4289, Farmington, NM 87499		
		9. Well Num	ber
	(505) 326-9700	79E	
١.	Location of Well	10. Field, Poo	
	Unit H (SENE) 1445' FNL, 970' FEL	Basin 1	Dakota
1		11 Sec Tur	n, Rge, Mer. (NMPM)
	Lat. 36°32.8462'N, Longitude 107°20.3677'W	Sec. 27, T27	
			,
		API #	# 30-039-3 <i>000</i>
4.	Distance in Miles from Nearest Town	12. County	13. State
	41.1 mi. to Blanco, NM	Rio Arriba	a NM
15.	Distance from Proposed Location to Nearest Property or Lease Line 970'		
16.	Acres in Lease	17. Acres As	ssigned to Well
		284.64	ac N2 DK
8.	Distance from Proposed Location to Nearest Well, Drlg, Compl, or A	Applied for on t	this Lease
	54'- San Juan 27-5 Unit 11		A = .
19.	Proposed Depth 7710'	_	r Cable Tools
	7710	Rot	ary
21.	Elevations (DF, FT, GR, Etc.)	22. Approx	Date Work will Start
- • •	6498'	Applox.	==to mont min otal
23.	Proposed Casing and Cementing Program		
	See Operations Plan attached		,
1			alialah
24.	Authorized by: Amanda Danel		1110101
	Regulatory Analyst	Dat	e
· CDR	T NO ADDROVAL DAY		
-EKIVII	T NO. APPROVAL DAT	!E	
		1	DATE 8/8/0
	OVED BY	7	
\PPR(	OVED BY ASSIMABLE OF TITLE ACTIV	<i></i>	DATE STOLL
PPR(	OVED BY ASIMONULE OF TITLE ACTIV		DATE 8/8/

NMOCD

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.

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

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

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102 Revised October 12, 2005

DISTRICT II 1301 West Grand Avenue, Artesia, N.M. 88210

OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

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

DISTRICT IV

DISTRICT IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 ☐ AMENDED REPORT

# WELL LOCATION AND ACREAGE DEDICATION PLAT

			ا بابانا،	OCATIO.	N AND AC	NEAGE DED	ICATION PI	W.I			
1'API Number 30000			71	Pool Code		Pool Name Basin Dakota					
		0000		.599		Basin Da	akota				
Property C		<sup>6</sup> Property Name							Well Number		
7454			SAN JUAN 27-5 UNIT							79E	
OGRID No. 14538			*Operator Name						<sup>6</sup> Elevation		
137.			BURLINGTON RESOURCES OIL AND GAS COMPANY LP							6498'	
					<sup>10</sup> Surface	Location					
UL or lot no.	Section	Township	Range	Lot idn	Feet from the	North/South line	Feet from the	East/We	st line	County	
Н	27	27-N	5-W	8	1445'	NORTH	970'	EAS	ST .	RIO ARRIBA	
1			11 Bott	om Hole	Location	f Different Fro	om Surface			_	
UL or lot no.	Section	Township	Range	Lot idn	Peet from the	North/South line	Feet from the	East/We	st line	County	
<sup>18</sup> Dedicated Acres			<sup>19</sup> Joint or	Joint or Infill <sup>14</sup> Consolidation Code <sup>15</sup> Order No.			15 Order No.				
284.640 N2 AK											
NO ALLOW	ABLE W					ON UNTIL ALL EEN APPROVED			EEN CC	NSOLIDATED	
10				34' 30" W		LOT 1	I heroby co		e informati	IFICATION on contained herein	
				USA :	SF-079403		belief, and a working t land includ	that this or interest or u ina the prop	panisation i inleased mir resed bottom	neral interest in the hole location or	
						144	to a contra	et with on a	noner of au	is location purmant ch a mineral or try pooling agreemen tofore entered by the	

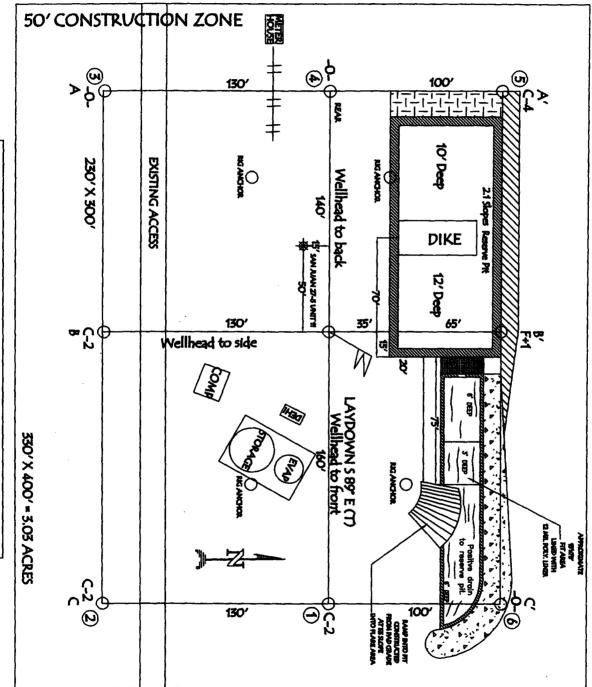
LOT 4 LOT 3 LOT 2 LAT: 36'32.8462' N. LONG: 107'20.3677' W. NAD 1927 970 LAT: 36'32'50.8" N. LONG: 10720'24.2" NAD 1983 Amanda Sandoval USA SF-079394 Printed Name Regulatory Analyst LOT 5 LOT 6 LOT 7 LOT 8 SURVEYOR CERTIFICATION LOT 10 LOT 9 LOT 11 LOT 12

Submit 3 Copies To Appropriate District Office	State of New Mex	tico			Form C-103
District I	Energy, Minerals and Natural	r		May 27, 2004	
1625 N. French Dr., Hobbs, NM 88240 District II			WELL API NO.	30-039-	70000
1301 W. Grand Ave., Artesia, NM 88210	OIL CONSERVATION D	DIVISION	5. Indicate Type of I	ease	
District III	1220 South St. Franci		STATE	FEE	
1000 Rio Brazos Rd., Aztec, NM 87410 District IV	Santa Fe, NM 8750	05	6. State Oil & Gas L	ease No. SF-079403	
1220 S. St. Francis Dr., Santa Fe, NM 8750	05			31-077403	
SUNDRY NOTICE (DO NOT USE THIS FORM FOR PROPOSALS	ES AND REPORTS ON WELLS TO DRILL OR TO DEEPEN OR PLUG BACK TO	Υ Δ	7. Lease Name or Un	it Agreement N	lame
DIFFERENT RESERVOIR. USE "APPLICATION		OA	San	Juan 27-5 Uni	t
PROPOSALS.)				····	
1. Type of Well: Oil Well Gas Well X	Other		8. Well Number	79E	
2. Name of Operator			9. OGRID Number		
	OURCES OIL & GAS COMPANY LP			14538	
3. Address of Operator 3401 F. 30TH STR	EET, FARMINGTON, NM 87402		10. Pool name or Wi	ldcat Basin Dakota	
4. Well Location	221,11111111111111111111111111111111111				
Unit Letter H : 1 Section 27	445' feet from the North Township 27N R	line and ng 5W	970' feet from NMPM	the East County	line Rio Arriba
	Elevation (Show whether DR, RKB, RT,		INIVIT IVI	County	Kio Airioa
	6498'	·			
Pit or Below-grade Tank Application	or Closure				200
Pit type New Drill Depth to Groundw Pit Liner Thickness: 12	<del></del>	i water well lume	>1000' Distance fro	om nearest surface	water <1000
<u> </u>					
	Appropriate Box to Indicate Na	iture of Not	•		
PERFORM REMEDIAL WORK	ITENTION TO:  PLUG AND ABANDON	REMEDIAL	SUBSEQUENT		ING CASING
TEMPORARILY ABANDON	CHANGE PLANS		CE DRILLING OPNS.	P AND	——————————————————————————————————————
PULL OR ALTER CASING	MULTIPLE COMPL	CASING/C	EMENT JOB		_
OTHER: New I	Prill Pit	OTHER:			
13. Describe proposed or complete	ed operations. (Clearly state all pertinen	t details, and g	ive pertinent dates, inc	luding estimate	ed date
	). SEE RULE 1103. For Multiple Comp	oletions: Attac	h wellbore diagram of	proposed comp	letion
or recompletion.					
New Drill, Lined:					
Dunlington Description manages to as	makanak a many dailling aik and an anasain	4-1	ia Danadan Dandinas		
<del>-</del>	onstruct a new drilling pit and an associa e new drilling pit will be a lined pit as de	-	_	-	
Operation Procedures dated Novemb	per 11, 2004 on file at the NMOCD office	e. A portion o	f the vent/flare pit will	be designed to	manage fluids and
	risk ranking criteria. Burlington Resour	ces anticipates	closing these pits acco	ording to the Dr	illing / Workover
Pit Closure Procedure dated August	2, 2004 on file at the NMOCD office.				
I hereby certify that the information ab	ove is true and complete to the best of m	v knowledge a	nd helief I further certi	fy that any nit or I	relow
	sed according to NMOCD guidelines , a ger				
Carlo Carlo	In Amanda				
SIGNATURE 10 MC CHOW	TITLE _	Re	gulatory Analyst	DATE	5/24/2006
Type or print name Amano	la Sandoval E-mail address:	asandoval(	@br-inc.com Teleph	ione No.	505-326-9700
For State Use Only			leas interpress	ears 15.00	AUG 1 0 2006
APPPROVED BY	TITLE "	SOLUTION ONE G	a dad inspector, D	131. 🚱 DATE	
Conditions of Approval (if any):	the tope pits as	Vulnera	ble avea 1	its Wel	lis in allovial
	area	, , , ,		-, -, -, -, -, -, -, -, -, -, -, -, -, -	

LATITUDE: 36' 32.8462' N LONGITUDE:

107 20.3677' W NAD27

DATE: MAY 1, 2006



NOTE: VECTOR SURVEYS IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES.

CONTRACTOR SHOULD 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.

# BURLINGTON RESOURCES OIL & GAS COMPANY LP SAN JUAN 27-5 UNIT #79E, 1445' FNL & 970' FEL SECTION 27, T-27- N, R-5-W, NMPM, RIO ARRIBA COUNTY, NM GROUND ELEVATION: 6498', DATE: MAY 1, 2006

6480	6490	6500	6510	ELEV. C'-C	6480	6490	6500	6510	ELEV. B'-B	6480	6490	6500	6510	ELEV. A'-A
				ሪ			47		2					Sr.
							/V							
		-												

NOTE: VECTOR SURVEYS IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES.
CONTRACTOR SHOULD 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.

### OPERATIONS PLAN

2643'

2851'

3094'

3266'

3394'

3778'

4923'

5053'

5418

5920'

6588'

7377'

7434'

7459'

7589'

7629'

7689'

7710'

7710'

Well Name:

SAN JUAN 27-5 UNIT 79E

Location:

1445' FNL & 970' FEL, Section Sec 27-T27N-R05W

Rio Arriba County, New Mexico

Formation:

Elevation:

Menefee

Mancos Shale

Upper Gallup

Upper Cubero

Lower Cubero

Total Depth:

Oak Canyon

Encinal

Greenhorn

Graneros

Two Wells

Basin Dakota

6498' GL

Surface Surface Ojo Alamo Kirtland Fruitland Coal Pictured Cliffs Lewis Huerfanito Bentonite Chacra Massive Cliff House

Massive Point Lookout

San Jose San Jose 2643' 28511 3094' 3266' 3394' 3778' 4242' 4923' 5053'

5418' 5920' 6588' 7377' 7434' 7459' 7589' 7629' 7689' 7710'

aquifer gas gas gas gas

gas gas gas gas gas gas gas gas gas gas gas

gas

### Logging Program:

## Mud Logs/Coring/DST

Mud logs - none Coring - none DST - none Open hole - none

7710'

Cased hole - Gamma Ray, CBL - surface to TD

### Mud Program:

1nterval 0 - 120' 100	<u>Type</u>	Weight	<u>Vis.</u>	Fluid Loss
0 - 120, 20	Spud MUD/Air/Air Mist	8.4 - 9.0	40 ~ 50	no control
120'- 3494'	LSND	8.4 - 9.0	30 - 60	no control
3494' - 7710'	Air/Air Mist/Nitrogen	n/a	n/a	n/a

C. HARRADEN/ July 20, 2006 CEN

BURLINGTON RESOURCES/ San Juan 27-5 Unit #79E APD

STIPULATION/CONDITION OF APPROVAL

This well is located within a 'vulnerable area'. In order to protect the integrity of the fresh water alluvium aquifer, a minimum surface csg. depth of 200' is stipulated as a condition of approval for this APD.

### 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' - 120'200	9 5/8"	32.3#	H-40
8 3/4"	0' - 3494'	7"	20#	J-55
6 1/4"	0' - 7710'	4 1/2"	10.5#/11.6#	J-55

### Tubing Program:

Depth Interval	Csg.Size	<u>Wt.</u>	Grade
0' - 7710'	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 25 sx Type I, II cement with 20% flyash mixed at 14.5 ppg, 1.61 cu ft per sack yield. (38 strift of the representation of the pre-set holes before pressure testing or drilling out from under surface.

pre-set holes before pressure testing or drilling out from under surface.

Conventionally Drilled - Cement with 68 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 309 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/16 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: 293 sacks Premium Lite cement with 3% calcium chloride, .25 pps celloflake, 5 pps LCM-1, 0.4% fluid loss, 0.4% sodium metasilicate (782 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 @ 2851'. Two turbolating centralizers at the base of the Ojo Alamo @ 2851'. 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 276 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 (546 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 Dakota formation 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 27 is dedicated to the Dakota formation.
- This gas is dedicated.



Minhnum 800 tracalation for all Completion/Vorkover Operations. 7-1/16" born, 2000 pal minhaum working pressure double gate 800° to be capapate with bind and pipe rems. A stripping head to be breakled on the top of the 800°. All 800° equipment is 2000 pal working pressure or greater exchafing 500 pal stripping head.

Plans #8

10-02-4

Figure 81

equipment with two choises.

10-02-t