KCAN WHITO A L

OIL CONS. DIV.

UNITED STATES **DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT**

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DIST. 3

a.			
	I YPH OT WORK	5. Lease Number	1 .
	DRILL	NMSF-07952 EIVED Unit Reporting N	
	070 7351	6. If Indian, All. or	uningi
b.	Type of Well	6. If Indian, All. or	Tribe
	GAS		
•		7 11-14 6	
••	Operator BURLINGTON	7. Unit Agreement	Name
	RESOURCES Oil & Gas Company, LP	San Juan 28-5	Unit
	,		
3.	Address & Phone No. of Operator	8. Farm or Lease Na	ame
	PO Box 4289, Farmington, NM 87499		
	(505) 326-9700	9. Well Number #62E	
	(003) 520-3700	HOLD	
I .	Location of Well	10. Field, Pool, Wild	lcat
	Unit A (NENE), 90' FNL & 305' FEL,	Basin Dakota	
		11. Sec., Twn, Rge,	
	Latitude 360 37.48569 N	A Sec. 31, T28N,	RSW
	Longitude 107° 23.51926 W		
		API# 30-039- 3	OK4
4.	Distance in Miles from Nearest Town	12. County	13. State
*•	46 miles	Rio Arriba	NM
5.	Distance from Proposed Location to Nearest Property or Le	ase Line	
-	907		
6.	Acres in Lease	17. Acres Assigned DK <u>332-17</u> - (N	
		320,00	/ 4)
8.	Distance from Proposed Location to Nearest Well, Drlg, Co		50
_	1940' from SJ 28-5 #62		
9.	Proposed Depth 7684 '	20. Rotary or Cable	Tools
	/084,	Rotary	
1.	Elevations (DF, FT, GR, Etc.)	22. Approx. Date \	Nork will Start
	6438' GL	•••	
3.	Proposed Casing and Cementing Program See Operations Plan attached		
3.	Proposed Casing and Cementing Program See Operations Plan attached		
	See Operations Plan attached		• -7
3. 4.		<u>/8</u>	-07

1625 M. French Dr., Hobbs, N.M. 68840		12n	ergy, Mine	rais & Natural	Resources Departs		Revised	_	
BETRICT III 1000 Rie Breson DISTRICT IV				OIL C	ONSERVATIO 2040 South Santa Fe, N			р и 4 02 г	e District O case - 4 Co case - 3 Co NDED REP(
2040 South Pech	seco, Santa I	·		\^			RECEP	161	NDED KEL
	Number			Pool Code	N AND AC	REAGE DEDI	Pool Ham	محمدان وأشرعتنا والمتكاف ومعادلات المحماسا النابيه م	
30-03	30-039- 30154			71599			DAKOT	<u> </u>	
*Property Code				*Property Xume SAN JUAN 28-5 UNIT					fell Number 62 E
7460 * OGBOD No					*Operator				Elevation
14538				BURLIN	GTON RESOUR	RCES OALG CO LF	•		6438'
	T a a a				¹⁰ Surface	ينصوب فيستعم وبست ويهيبنك والمستين التقاوي والمترا			<u></u>
UL ar iot so. A	Section 31	Tovaship 28N	Bange 5W	iot ida	Feet from the 90 ⁴	NORTH	Feet from the 305'	East/West line EAST	RIO ARRIB
L			¹¹ Botto	m Hole	Location 1	f Different Fro	om Surface	┶╶╤┶╶╦╤╴╓═╸┾╦═╖╸╖	
UL or lot pa.	Bection	Township	Rango	Lot. idea	Feet from the	Horth/Houth line	Feet from the	Sast/Vest Inc	County
²³ Dedicated Acre	4	L	Jotul or 1		* Consolidation	Dode	**Order No.	RCUD M	
332.17	Acres -	(N/2)		!					NS. DIV. St. 9
NO ALLOW	ABLE W					ON UNTIL ALL CEN APPROVED		LAVE BEEN C	ONSOLIDAT
			۲ ۲ ۲ ۲ ۲ ۲ ۲ ۲ ۲ ۲ ۲ ۲ ۲ ۲ ۲ ۲ ۲ ۲ ۲	LAT. LONE	30'37.40569 N (N 107'23.51926 N 0'	<u> </u> , , , , , , , , , , , , , , , , , , ,	Rhon	da Rogers	zez_
					ase f usa sf	-079521-A	Regul	atory Tech 12/13/06 RVEYOR CE	
				31		-079521-A	Regul Regul Title Bib F Bala Title Title Bala Ti	12/13/06	RTIFICATIO In class of the service mate

Submit 3 Copies To Appropriate District Office <u>District 1</u> 1625 N. French Dr., Hobbs, NM 88240	State of New Me Energy, Minerals and Natur		WELL API NO.		Form C-103 May 27, 2004
District II 1301 W. Grand Ave., Artesia, NM 88210 District III	OIL CONSERVATION 1220 South St. France		5. Indicate Type o STATE	$\frac{30-039}{\text{f Lcase}} \frac{30}{\text{FEE}}$	<u>2154</u>
1000 Rio Brazos Rd., Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505	Santa Fe, NM 875	505		lease NMSF-07952	
(DO NOT USE THIS FORM FOR PROPOSALS TO DIFFERENT RESERVOIR. USE "APPLICATION PROPOSALS.)			S	Jnit Agreement Nan an Juan 28-5 Unit	10
	Other		8. Well Number 62E		
	CES OIL & GAS COMPANY LP		9. OGRID Number 14538		
Address of Operator <u>3401 E. 30TH STREE</u> Well Location	T, FARMINGTON, NM 87402		10. Pool name or Wildcat Basin Dakota		
Unit Letter A : 90 Section 31	Township 28N	line and	<u>305'</u> feet fro <u>NMPM</u>		line Rio Arriba
	vation (Show whether DR, RKB, R7 6373' or Closure	, GR, etc.)			
Pit type <u>New Drill</u> Depth to Groundwate	r <u>>100</u> Distance from nearest free			from nearest surface wa	ter
	nii Below-Grade Tank: V propriate Box to Indicate N	ature of Noti		tion Material	
NOTICE OF INT			•	REPORT OF:	
	PLUG AND ABANDON		WORK E DRILLING OPNS EMENT JOB	ALTERINO P AND A	
OTHER: New Dr 13. Describe proposed or completed of		OTHER:	vo nastingat dat i-		
13. Describe proposed of completed (perations. (Creatty state an pertine	n ocians, and gl	ve pertinent dates, li	iciduing estimated d	aic

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

New Drill, Unlined:

Burlington Resources proposes to construct a new drilling pit and an associated vent/flare pit. Based on Burlington's interpretation of the Ecosphere's risk ranking criteria, the new drilling pit and vent/flare pit will be an unlined pit as detailed in Burlington's Revised Drilling / Workover Pit Construction / Operation Procedures dated November 11, 2004 on file at the NMOCD office. A portion of the vent/flare pit will be designed to manage fluids, and that portion will be unlined, as per the risk ranking criteria. Burlington Resources anticipates closing these pits according to the Drilling / Workover Pit Closure Procedure dated August 2, 2004 on file that the NMOCD office.

			knowledge and belief. I further certify	
grade tank has been/will be constru	ucted or closed according to NMOC	D guidelines 🛄, a gener	al permit 🛛 🗙 or an (attached) alternative	OCD-approved plan
	n()		—	
SIGNATURE / Sh	mala socar	TITLE	Regulatory Tech.	_ DATE / 2-13-06
Type or print name	Rhonda Rogers 🖉	E-mail address:	rrogers@br-inc.com Telephor	ie No. 505-599-4018
For State Use Only				
	1 /m 1a		UTY OIL & GAS INSPECTOR, BIGT	42 ALAV 1 77 2001
APPPROVED BY	MIN	TITLE	ast AP a Alla marreraut wish	DATEL MAY 1 7 200
Conditions of Approval (any):			



BURLINGTON RESOURCES O&G CO LP SAN JUAN 28-5 UNIT #62 E 2405' FNL & 1130' FEL LOCATED IN THE SE/4 NE/4 OF SECTION 31, T28N, R5W, N.M.P.M., RIO ARRIBA COUNTY, NEW MEXICO GROUND ELEVATION: 6416', NAVD 88 FINISHED PAD ELEVATION: 6416', NAVD 88



VERT. SCALE: 1" = 30" HORZ. SCALE: 1" = 50" JOB No.: COPC017 DATE: 07/13/06



Russell Surveying 1409 W. Aztec Blvd. #6 Aztec, New Mexico 87410 (505) 334-8637

OPERATIONS PLAN

<u>Well Name:</u>	SAN JUAN 28-5 UNIT 62E
Location:	90' FNL & 305' FEL, Section Sec 31 T28N R05W
	Rio Arriba County, New Mexico

Formation:	Dakota	a
<u>Elevation:</u>	6438'	\mathbf{GL}

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Formation Tops:	<u>Top</u>	Bottom	<u>Contents</u>
Surface	San Jose	2570'	
T / Ojo Alamo	2570'	2684 '	gas
Kirtland	2684 '	2764 '	gas
Fruitland	2764'	3235'	gas
Pictured Cliffs	3235'	3396 '	gas
Lewis	3396'	3840'	
Huerfanito Bentonite	3840'	4202 '	
Chacra	4202'	5010'	gas
Massive Cliff House	5010'	5082 '	gas
Menefee	5082'	5430'	gas
Massive Point Lookout	5430'	5928 '	gas
Mancos Shale	5928'	6655 '	
Upper Gallup	6655'	7350'	gas
Greenhorn	7350'	7416'	gas
Graneros	7416'	7453 '	gas
Two Wells	7453'	7556'	gas
Upper Cubero	7556'	7603 '	gas
Lower Cubero	7603 '	7670'	gas
Oak Canyon	7670'	7684 '	gas
Encinal	7684	7684 '	gas
Total Depth:	76841		gas

Logging Program:

<u>Mud_Logs/Coring/DST</u> 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>	<u>Fluid Loss</u>
0 - 120'	Spud MUD/Air/Air Mist	8.4 - 9.0	40 - 50	no control
120'- 3496'	LSND	8.4 - 9.0	30 - 60	no control
3496' - 7684'	Air/Air Mist/Nitrogen	n/a	n/a	n/a

Operations Plan - SAN JUAN 28-5 UNIT 62E

Casing Program	(as listed,	the equivalent, or better	r) :		
	<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' - 3496'	7"	20#	J-55
	6 1/4"	0' - 7684'	4 1/2"	10.5#/11.6#	J-55
Tubing Program:	L				
		<u>Depth Interval</u>	<u>Csg.Size</u>	<u>Wt.</u>	<u>Grade</u>
		0' - 7684'	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 nippleup 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.

<u>General -</u>

- 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.

C. HARRADEN/ January 9, 2007 Cett

BURLINGTON RESOURCES/ San Juan 28-5 Unit #62E 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.

Operations Plan - SAN JUAN 28-5 UNIT 62E

<u>Cementing:</u>

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 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/51 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: 258 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 6. Six bowspring centralizers spaced out every other joint off bottom. Two turbolating centralizers at the base of the Ojo Alamo @ 2678'. One centralizer in the base of the surface casing.

4 1/2" Production Casing -

Pump 274 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 (542 cu.ft., 30% excess to achieve 100' overlap in $4-1/2'' \ge 7''$ annulus). WOC a minimum of 18 hrs prior to completing.

Operations Plan - SAN JUAN 28-5 UNIT 62E

<u>Cementing:</u> <u>Continued</u>

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.

<u>Special Drilling Operations (Air/Mist Drilling):</u>

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 producing only well.
- 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 31 is dedicated to the Dakota formation.
- This gas is dedicated.

Drilling Engineer

12/27 /06



1000 pei Bystem

Dritting Rig Choire Manifold Cont

Burlington Resources

2000 pel System

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BURLINGTON RESOURCES

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CompletionWorkover Rig BOP Configuration 2,000 pai System



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10-22-4



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Figure #3

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Figure of

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