UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

	APPLICATI	ON FOR PERMIT TO DRILL, DEEP	PRIOR PLUG BACK
la.	Type of Work DRILL	ans :	5. Lease Number NMSF-080714-A Unit Reporting Number
lb.	Type of Well GAS	Co Jul 200 July 23	070 FARMINGTON NW 6. If Indian, All. or Tribe
2.	Operator BURLINGTON RESCURCES Oil &	Gas Company C ALE ME BERNEY	7. Unit Agreement Name San Juan 30-6 Unit
3.	Address & Phone No. of O		8. Farm or Lease Name
	(505) 326-9700		9. Well Number 34E
1.	Location of Well Unit K (NESW), 1970	' FSL, 1615' FWL	10. Field, Pool, Wildcat Basin Dakota
	Latitude 360 49.514 Longitude 1070 27.1		11. Sec., Twn, Rge, Mer. (NMPM) Sec. 10, T30N, R6W
			API# 30-039-2 9952
14.	Distance in Miles from Nea Blanco, NM - 45.5 m		12. County 13. State Rio Arriba NM
15.	Distance from Proposed Lo	cation to Nearest Property or Lease L	ine
16.	Acres in Lease		17. Acres Assigned to Well 320-0 ac W2 DK
18.	Distance from Proposed Lo	ocation to Nearest Well, Drlg, Compl,	or Applied for on this Lease
19.	Proposed Depth 7763'		20. Rotary or Cable Tools Rotary
21.	Elevations (DF, FT, GR, Etc 6259'	c.)	22. Approx. Date Work will Start
23.	Proposed Casing and Ceme See Operation Pl		,
24.		nande Sanch cory Analyst	
PERM	IT NO.	APPROVAL	DATE
APPR	OVED BY DIM GAL	lee by TITLE AFA	DATE 6/10/8
Archa	eological Report attached tened and Endangered Specie		

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



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 | 1625 N. French Dr., Hobbs, M.M. 88240

State of New Mexico Energy, Minarals & 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

Cartificate Number

15703

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

☐ AMENDED REPORT

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

	Number 299	52	71	Pool Code 579		Basia Dakota	² Pool Nam	ie .	
⁴ Property Code			-	°Property Name AN JUAN 30-6 UNIT		*Well Number			
1404 14333 No.			6 Operat	or Name		⁶ Elevation			
			BURLI	NGTON RE	SOURCES 0	IL AND GAS COMPA	NY LP		6259 '
						e Location		·	
L or lot no. K	Section 10	Township 30—N	Range 6-W	(3	Feet from the 1970'	e North/South line SOUTH	Feet from the 1615'	East/Vest line WEST	RIO ARRIB
	l	<u> </u>	11 Botto	om Hole	Location	If Different From	om Surface	<u> </u>	
L or lot no.	Section	Township	Range	Lot Idn	Post from th			East/Vest line	County
Dedicated Acre		L	²³ Joint or	india)	24 Consolidatio	n Code	¹⁵ Order No.	<u> </u>	<u> </u>
W2 3 2 0.3	~ 01	,							
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		OR A N	ion-sta	NDARD I	INIT HAS	BEEN APPROVED		ISION	
							17 OPE	RATOR CERTI	FICATION
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Office District I	State of New Mexico	Form C-103		
	Energy, Minerals and Natural Resources	May 27, 2004		
1625 N. French Dr., Hobbs, NM 88240		WELL API NO. 30-039- 29952		
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	6. State Oil & Gas Lease No.			
District IV 1220 S. St. Francis Dr., Santa Fe, NM 87503	NMSF-080714-A			
	S AND REPORTS ON WELLS	7. Lease Name or Unit Agreement Name		
	O DRILL OR TO DEEPEN OR PLUG BACK TO A	0.1.00611.5		
DIFFERENT RESERVOIR. USE "APPLICATION PROPOSALS.)	FOR PERMIT" (FORM C-101) FOR SUCH	San Juan 30-6 Unit		
1. Type of Well:		8. Well Number		
Oil Well Gas Well X	Other	34E		
2. Name of Operator	ID CES OUT & CAS COMPANY I D	9. OGRID Number		
3. Address of Operator	JRCES OIL & GAS COMPANY LP	14538 10. Pool name or Wildcat		
	ET, FARMINGTON, NM 87402	Basin Dakota		
4. Well Location	gen Carlo da la la la	1/15		
Unit Letter K : 19 Section 10	70' feet from the South line and Township 30N Rng 6W	1615' feet from the <u>West</u> line NMPM County Rio Arriba		
	levation (Show whether DR, RKB, RT, GR, etc.)	THE COUNTY RIOTATION		
	6259'			
Pit or Below-grade Tank Application	or Closure			
Pit type New Drill Depth to Groundwa Pit Liner Thickness: 12		>1000' Distance from nearest surface water <1000'		
<u> </u>	mil Below-Grade Tank: Volume	bbls; Construction Material		
	ppropriate Box to Indicate Nature of No	•		
NOTICE OF IN	I	SUBSEQUENT REPORT OF:		
PERFORM REMEDIAL WORK TEMPORARILY ABANDON	PLUG AND ABANDON REMEDIA CHANGE PLANS COMMEN	L WORK CE DRILLING OPNS. ALTERING CASING P AND A		
PULL OR ALTER CASING	}	CEMENT JOB		
OTHER: New Dr	ill Pit X OTHER:			
		I		
		zive pertinent dates, including estimated date		
13. Describe proposed or completed of starting any proposed work).	operations. (Clearly state all pertinent details, and SEE RULE 1103. For Multiple Completions: Atta			
13. Describe proposed or completed	operations. (Clearly state all pertinent details, and			
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ATTUDE:

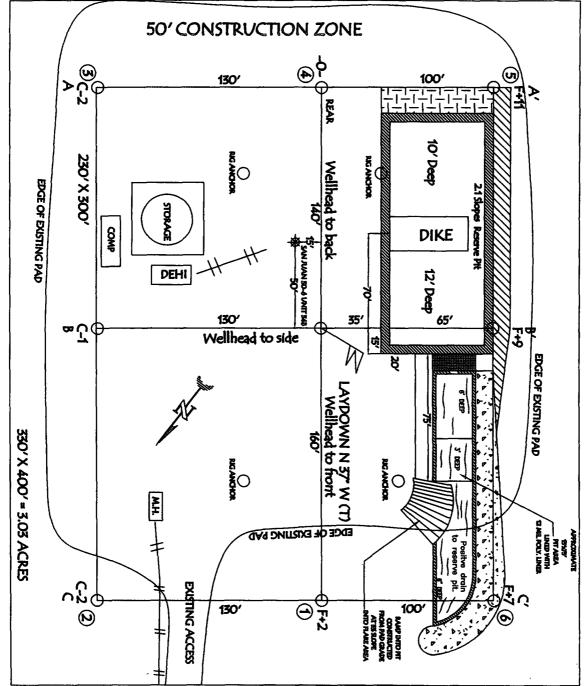
8

49.5147' N

LONGITUDE:

107" 27.1850' W NAD27

GROUND ELEVATION: 6259 DATE: APRIL 12, 2006

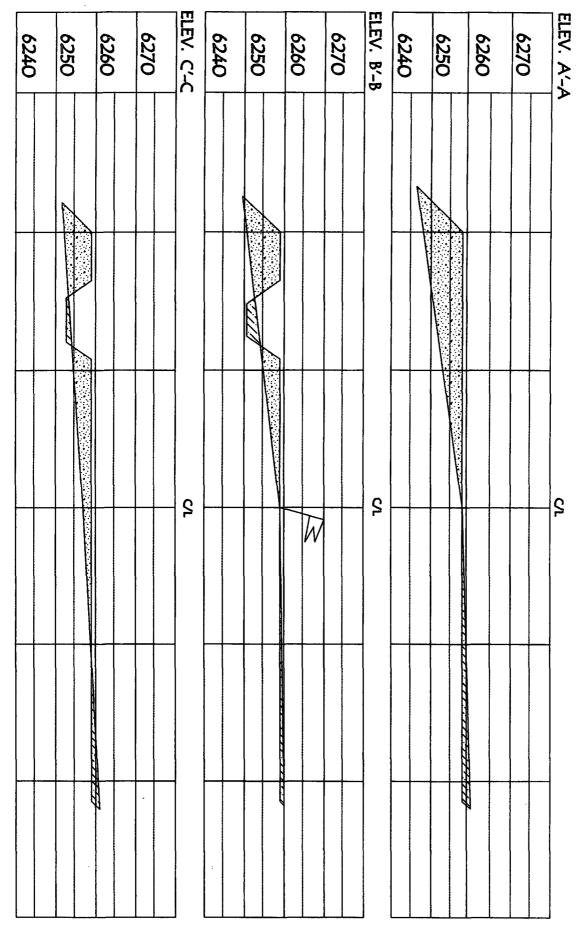


NOTE: VECTOR SURVEYS IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES.

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 30-6 UNIT #34E, 1970' FSL & 1615' FWL SECTION 10, T-30- N, R-6-W, NMPM, RIO ARRIBA COUNTY, NM GROUND ELEVATION: 6259', DATE: APRIL 12, 2006



PIPLINES OR CABLES ON WELL PAD AND OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION. NOTE: VECTOR SURVEYS IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES CONTRACTOR SHOULD CALL ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED BURIED

OPERATIONS PLAN

<u>Well Name:</u>	SAN JUAN 30-6 UNIT 34E
Location:	1970' FSL & 1615' FWL, Section 10 T30N R06W
	Rio Arriba County, New Mexico
Formation:	
Elevation:	Basin Dakota
	6259' GL

Surface	San Jose		
Surface	San Jose	2307'	
Ojo Alamo	2307'	2395'	aquifer
Kirtland	2395'	2926'	gas
Fruitland Coal	2926'	3212'	gas
Pictured Cliffs	3212'	3354'	gas
Lewis	3354'	3908'	
Huerfanito Bentonite	3908'		
Chacra	4300'	5124'	gas
Massive Cliff House	5124'	5161'	gas
Menefee	5161'	5432'	gas
Massive Point Lookout	5432'	5849'	gas
Mancos Shale	5849'	6762'	
Upper Gallup	6762'	7436'	gas
Greenhorn	7436'	7486'	gas
Graneros	7486'	7602'	gas
Two Wells	7602'	7619'	gas
Upper Cubero	7619'	7652'	gas
Lower Cubero	7652'	7716'	gas
Encinal	7716'	7763'	gas
Total Depth:	7763'		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>	<u>Type</u>	<u>Weight</u>	<u>Vis.</u>	Fluid Loss
0 - 120'	Spud MUD/Air/Air Mist	8.4 - 9.0	40 - 50	no control
120'- 3454'	LSND	8.4 - 9.0	30 - 60	no control
3454' - 7763'	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' - 3454'	7"	20#	J-55
6 1/4"	0' ~ 7763'	4 1/2"	10.5#/11.6#	J-55

Tubing Program:

Depth Interval	<u>Csg.Size</u>	<u>Wt.</u>	<u> Grade</u>
0' - 7763'	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 305 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/30 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: 275 sacks Premium Lite cement with 3% calcium chloride, .25 pps celloflake, 5 pps LCM-1, 0.4% fluid loss, 0.4% sodium metasilicate (773 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 @ 2395'. Two turbolating centralizers at the base of the Ojo Alamo @ 2395'. 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 282 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 (566 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 west half of Section 10 is dedicated to the Dakota formation.
- This gas is dedicated.



5/30/0b

Operations, 7-1/16* bore, 2000 pai inhibitum working pressure double gate BOP to be equipped with blind and pipe rams. A stripping head to be installed on the top of the BOP. At BOP equipment is 2000 pal working pressure or greater embeding 500 pal attiping head.

Figure #3

Figure #3

4-20-01

Figure #1

4-20-02