2005 MAY 26 AM 8 13

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

а.	770 F. R. R. R. C.	5. Lease Number
	DRILL	NMSF-080781
		Unit Reporting Number
b. .	Type of Well	6. If Indian, All. or Tribe
·	GAS	o
		· · · · · · · · · · · · · · · · · · ·
2.	Operator BLDLINGTON	7. Unit Agreement Name
	BURLINGTON RESOURCES Oil & Gas Company LP	
	Address & Phone No. of Operator	8. Farm or Lease Name
	PO Box 4289, Farmington, NM 87499	
		9. Well Number
	(505) 326-9700	CAIN #100
1.	Location of Well	10. Field, Pool, Wildcat
	Unit N (SESW), 1145' FSL 6 1510' FWL 3	Basin Fruitland Coal
		Aztec Pictured Cliffs
	Latitude 360 41.5533'N	11. Sec., Twn, Rge, Mer. (NMPM) VSec. 30, T29N, R9W
	Longitude 107° 49.3083'W	•
	C 1 75 00 36 36 36 36 36 36 36 36 36 36 36 36 36	API# 30-045- 33117
14.	Distance in Miles from Nearest Town	12. County 13. State
	11.7 miles from Gobernador	San Juan NM
15.	Distance from Proposed Location to Nearest Property or Lease L	ine
	1145'	
16.	Acres in Lease	17. Acres Assigned to Well
		96.69 SW PC & 268.42 S/2 FC
18.	Distance from Proposed Location to Nearest Well, Drlg, Compl, o	or Applied for on this Lease
	339' - Cain #16	
19.	Proposed Depth 2173'	20. Rotary or Cable Tools
	2173	Rotary
21.	Elevations (DF, FT, GR, Etc.)	22. Approx. Date Work will Start
	5644' GL	
23.	Proposed Casing and Cementing Program	
	See Operations Plan attached	
	•	
	$\left(\begin{array}{c} 1 \\ 1 \end{array} \right)$	
0.4	Jots Illing	
24.	Authorized by: Why Charles Special is at	<u>5/25/05</u>
	Sr. Regulatory Specialist	Date
PERM	IIT NO. APPROVAL DA	ATE
	(1X/W/ 6.0 1-1	1
APPR	COVED BY HAMILEE TITLE AT N	DATE 6-15-05

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.

THIS IS NOT AN HPA WELL

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

DISTRICT I 1625 N. Prench 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

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

OIL CONSERVATION DIVISION 2040 South Pacheco

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

DISTRICT IV 2040 South Pecheco, Santa Fe, NM 67505 Santa Fe. NM 87505 ☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

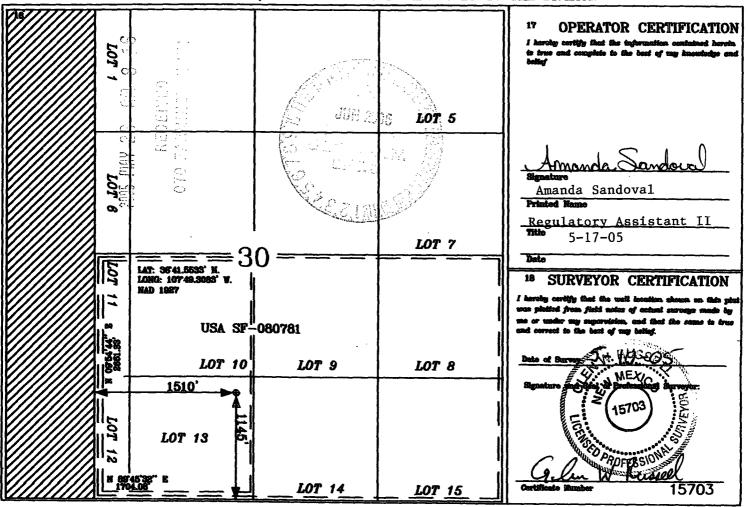
¹API Number		^B Pool Code	⁸ Pool Name		
30-045- 3311 []		71629/ 71280	Basin Fruitland Coal/ Aztec Pic	tured Cliffs	
⁴ Property Code		⁵ Pr	operty Name	• Well Number	
18487		1	CAIN	100	
OGRID No.		oOb	erator Name	° Elevation	
14538		BURLINGTON RESOURCES	S OIL AND GAS COMPANY LP	5644'	

¹⁰ Surface Location

UL or lot no.	Section	Loanspip	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	30	29-N	9-W		1145'	South	1510'	WEST	SAN JUAN
11 Bottom Hole Location If Different From Surface									
UL or lot no.	UL or lot no. Section Township Range Lot Idn Feet from the North/South line Feet from the East/West line County								
L									1

¹³ Joint or hofill Dedicated Acres ²⁵Order No. 268.42 S2 FC

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



Submit 3 Copies To Appropriate District Office	State of New	Mexico		Form C-1	103	
District I	Energy, Minerals and I	Natural Resources	<u></u>	May 27, 2		
1625 N. French Dr., Hobbs, NM 88240			WELL API NO.	30-045-		
<u>District II</u> 1301 W. Grand Ave., Artesia, NM 88210	OIL CONSERVAT	ION DIVISION	5. Indicate Type of L			
District III			STATE	FEE		
1000 Rio Brazos Rd., Aztec, NM 87410	6. State Oil & Gas Le	ase No.				
District IV 1220 S. St. Francis Dr., Santa Fe, NM 87	505		Federal Lease - NMSF-080781			
	CES AND REPORTS ON WELLS	S		7. Lease Name or Unit Agreement Name		
(DO NOT USE THIS FORM FOR PROPOSAL				-	1	
DIFFERENT RESERVOIR. USE "APPLICATI PROPOSALS.)	ON FOR PERMIT" (FORM C-101) FOR	SUCH			1	
1. Type of Well:			8. Well Number			
Oil Well Gas Well X	Other			Cain #100		
2. Name of Operator	OUDCES OIL & CAS COMBAN	37 I D	9. OGRID Number 14538			
3. Address of Operator	OURCES OIL & GAS COMPAN	Y LP	10. Pool name or Wildcat			
	REET, FARMINGTON, NM 8740	02	Basin FC / Aztec PC			
4. Well Location	1145 6-46 -41 6	a 15 a	1610 6 (6	.s xx7 , 1°	ŀ	
Unit Letter N Section 30	1145 feet from the So Township 29N	uth line and Range 9W	1510 feet from NMPM	the <u>West</u> line County San Juan	Ì	
	. Elevation (Show whether DR, RK			County Sun Jugar		
District Control of the Control of t		'GR		g all a decision of April 1		
Pit or Below-grade Tank Application	or Closure		1000L D		· .	
Pit type <u>new drill</u> Depth to Ground Pit Liner Thickness: 12	water >100' Distance from near mil Below-Grade Tank:	rest tresh water well Volume	>1000' Distance from	m nearest surface water 20	10,	
	Appropriate Box to Indica	ate Nature of No	-			
———	NTENTION TO:	DEMEDIA	SUBSEQUENT		\Box	
PERFORM REMEDIAL WORK TEMPORARILY ABANDON	PLUG AND ABANDON CHANGE PLANS	REMEDIAL	CE DRILLING OPNS.	ALTERING CASING P AND A	Н	
PULL OR ALTER CASING	MULTIPLE COMPL		EMENT JOB		لبا	
OTHER: New	Drill Pit	OTHER:		_		
13. Describe proposed or complet			ve pertinent dates inclu	ding estimated date		
	k). SEE RULE 1103. For Multipl					
or recompletion.			_			
New Drill, Lined:						
, <u></u>				•		
Burlington Resources proposes to c						
Ecosphere's risk ranking criteria, th						
Operation Procedures dated Novem						
that portion will be lined as per the Closure Procedure dated August 2,			closing these pits accord	ling to the Drilling / Workove	r Pit	
crosure i roccure autou riugust 2,	2001 on the at the Minoco office	. .				
·						
I hereby certify that the information ab grade tank has been/will be constructed or cle	ove is true and complete to the be	st of my knowledge an	nd belief. I further certify	that any pit or below-		
grade man has been win be examinated or en		, a general permit [A	or an (attached) afternauv	e OCD-approved plan .		
SIGNATURE Palker	(lust III	TLE Sr. Re	egulatory Specialist	DATE 5/25/2005	5	
Townside						
Type or print name Patsy For State Use Only	y Clugston E-mail ad		<u> Dbr-inc.com</u> Telepho			
	1/2/11 -	DEFUTY OIL	& GAS INSPECTOR, D	057. 🙉 JUN 17 2(005	
APPPROVED BY	TIT	TLE		DATE		
Conditions of Approval (if any):						

IJIFITALES ON CUPITES ON MET 1 PAD VAD ON VECEES HOVD YL ITEVSL 1 MOO (3) MOORIANG DAYS INTOK 1.0 CONSLINGLION CONJENCIOS ZHONYD CYTT ONE-CYTT LOS TOCYJON O'L YNA WYSTED O'S NAWYSKED INVITED NOTE. VECTOR SURVEYS IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES.

305' X 340' = 2.38 ACRES OWN SBO'E (T) Wellhead to bad 205' X 240' DIKE <u>დ</u> ტჯ∢ HO, 巨 9 **50' CONSTRUCTION ZONE**

BURLINGTON RESOURCES OIL & GAS COMPANY LP

GROUND

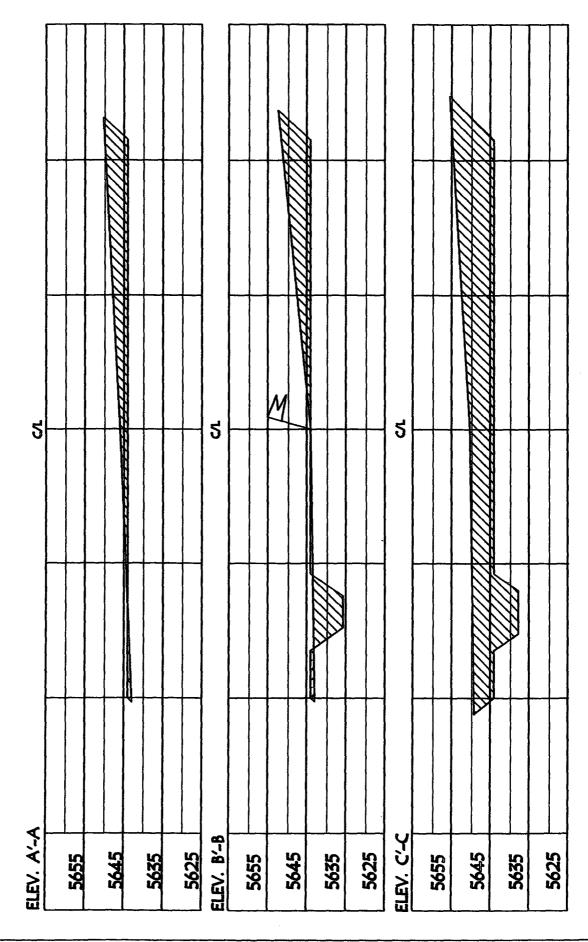
SECTION 30,

36' 41.5533' ATTVDE:

LONGITUDE: 107 49.3083' NAD27

FREEVAE HIL DIKE' LO DE 8, VPOAE DIED ZIDE (OAENTOM - 2, MIDE VND 1, VBOAE ZHVITOM ZIDE)'

BURLINGTON RESOURCES OIL & GAS COMPANY LP CAIN 100, 1145' FSL & 1510' FWL SECTION 30, T-29-N, R-9-W, NMPM, SAN JUAN COUNTY, NM GROUND ELEVATION: 5644', DATE: APRIL 27, 2005



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

OPERATIONS PLAN

Well Name:

Cain #100

Location:

Unit N (SESW), 1145' FSL & 1510' FWL, Section 30, T29N, R9W

San Juan County, New Mexico

Latitude 36° 41.5533'N; Longitude 107° 49.3083'W

Formation:

Basin Fruitland Coal

Elevation:

5644' GR

Formation:	Тор	Bottom	Contents
Surface	San Jose		
Ojo Alamo	840	1007'	
Kirtland	1007'	1768'	gas
T/Fruitland	1768'		gas
B/Fruitland Coal	1972'		gas
Pictured Cliffs	1973'		
Total Depth	2173'		

Note: The Total Depth for this well is into the Pictured Cliffs interval, but currently only have plans to complete the Fruitland Coal interval. We could in the near future perforate/stimulate the Pictured Cliffs interval, but only would once Regulatory approval was asked for and received.

Logging Program: None

Mud Program:

<u>Interval</u>	<u>Type</u>	<u>Weight</u>	Vis. Fluid Loss
0- 120'	Spud /Air/Air Mist	8.4-8.9	40-50 no control
120-2173	Non-dispersed	8.4-9.5	30-60 no control

Casing Program:

Hole Size	<u>Depth Interval</u>	<u>Csg.Size</u>	<u>W†.</u>	<u>Grade</u>
8 3 "	0 - 120'	7"	20.0#	J-55
6 4"	0 - 2173'	4 1/2"	10.5#	J/K-55

Tubing Program:

0 - 2173'	2 3/8"	4.7#	J-55
0 21/3	2 3/0	7./ 77	0-00

Float Equipment: 7" surface casing - guide shoe. Centralizers will be run in accordance with Onshore Order #2.

4 1/2" production casing - float shoe and float collar on bottom. Centralizers run every third joint above shoe to the base of the Ojo Alamo @ 1007'. Two turbolizing type centralizers - one below and one into the base of the Ojo Alamo @ 1007'. Standard centralizers thereafter every fourth joint up to the base of the surface pipe.

Wellhead Equipment: $7" \times 4 \frac{1}{2}" \times 2 \frac{3}{8}" \times 11" 2000$ psi xmas tree assembly.

Cementing:

7" surface casing Pre-Set Drilled - Cement with Type I, II cement with 20% flyash mixed at 14.5 ppg, 1.61 cu ft per sack yield. (Bring cement to surface). Wait on cement for 24 hours for pre-set holes before pressure testing or drilling out from under surface.

7" surface casing - Cement with 42 sx Type III cement with 0.25 pps Celloflake, 3% CaCl. (54 cu ft of slurry @ 1.28 yield). 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.

WOC until cement establishes 250 psi compressive strength prior to NU of BOPE.

4 1/2" production casing - Cement with 100 sx (213 cu ft of slurry @ 2.13 yield) Premium Lite with 3% calcium chloride, 5 pps LCM-1, and 1/4#/sack celloflake, 0.4% FL-52, & 0.4% SMS. Tail with 90 sacks (124 cu ft of slurry @ 1.38 yield) Type III cmt with 1% calcium chloride, 1/4#/sack Celloflake and 0.2% FL-52. Total of 337 cf - 50% excess to circulate to surface.

BOP and tests:

Surface to TD - 11" 2000 psi (minimum double gate BOP stack (Reference Figure #1 and #2). Prior to drilling out surface casing, test rams to 600 psi/30 min.

Completion - 6" 2000 psi (minimum) double gate BOP stack (Reference Figure #2). Prior to completion operations, test rams and casing to 1500 psi/30 min.

From surface to TD - choke manifold (Reference Figure #3).

Pipe rams will be actuated at least once each day and blind rams actuated once each trip to test proper functioning. An upper kelly cock valve with handle and drill string safety valves to fit each drill string will be maintained and available on the rig floor.

Additional information:

- * The Fruitland Coal formation will be completed.
- * Anticipated pore pressure for the Fruitland is between 600 700 psi.
- * This gas is dedicated.
- * The south half of the section is dedicated to this well.
- * New casing will be utilized.
- * Pipe movement (either rotation or reciprocation) will be done if hole conditions permit.

Drilling Engineer

5/25/05 Date Completion/Workover Rig BOP Configuration 2,000 psi System

Burlington Resources

2000 psi System

ROOM DO

Origing Rig

BURLINGTON RESOURCES

Drilling Rig Choke Menifold Configuration 2000 pei System

1

ï

DOUGLE GATE

FFILL UP LINE

Peint to Total Depth. 2,000pel worlding pressure Choke menifold installation from Surface Casing equipment with two chokes.

Figure #3

4-20-01

Figure 81

pressure double gate BOP to be equipped with blind and pipe rams. A stripping head to be installed on the top of Operations, 7-1/16" bore, 2000 pei minimum working pressure or greater excluding-600 psi stripping head. Minimum BOP Installation for eil Compitation/Work the BOP. All BOP equipment is 2000 pel working

Figure #2

4-20-01