UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

2505 MOV 8 PG 3 25	
Type of Work DRILL	5. Lease Number NMSF-078423
NEO 21.11.2	
070 F.M.W. W. C. H.	NMN M 78409B-MV/NMNM7
Type of Well	6. If Indian, All. or Tribe
GAS	
Operator	7. Unit Agreement Name
<u>Burlington</u>	
RESOURCES Oil & Gas Company	San Juan 29-7 Unit
Address & Phone No. of Operator	8. Farm or Lease Name
PO Box 4289, Farmington, NM 87499	9. Well Number #86M
(FAE) 20C 0700	9. Well Number
(505) 326-9700	9. Well Number #86M CONS
Location of Well	10. Field, Pool, Wildcat
	o Mesaverde/ Basin Dákota
	11 Sec Two Ros Mer (NMPM)
Latitude 360 43.1435'N	11. Sec., Twn, Rge, Mer. (NMPM) 200.
Longitude 107° 35.7016'W	
	API # 30-039- 2 9696
Distance in Miles from Nearest Town	12. County 13. State
14.5 miles to Blanco, NM	Rio Arriba NM
Distance from Proposed Location to Nearest Property or Lease Line 125'	
Acres in Lease	17. Acres Assigned to Well
	320 W2 MV/DK
Distance from Proposed Location to Nearest Well, Drlg, Compl, or A	Applied for on this Lease
1778'- San Juan 29-7 Unit #45A	
Proposed Depth	20. Rotary or Cable Tools
8123′	Rotary
Elevations (DF, FT, GR, Etc.)	22. Approx. Date Work will Start
6912'GL	••
0912 91	
Proposed Casing and Cementing Program	
Proposed Casing and Cementing Program See Operations Plan attached	11-7-05
Proposed Casing and Cementing Program See Operations Plan attached Authorized by:	11-7-05
Proposed Casing and Cementing Program See Operations Plan attached	11-7-05 Date
Proposed Casing and Cementing Program See Operations Plan attached Authorized by:	
Proposed Casing and Cementing Program See Operations Plan attached Authorized by:	Date
Proposed Casing and Cementing Program See Operations Plan attached Authorized by: Regulatory Compliance Assistant II MIT NO. APPROVAL DA	Date TE
Proposed Casing and Cementing Program See Operations Plan attached Authorized by: Regulatory Compliance Assistant II	Date
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Proposed Casing and Cementing Program See Operations Plan attached Authorized by: Regulatory Compliance Assistant II APPROVAL DA	Date TE

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

This action is subject to technical and procedural review pursuant to 43 CFR 3165 3 and appeal pursuant to 43 CFR 3165 4

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

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

Submit to Appropriate District Office

3 (3

Santa Fe, NM 87505

State Lease - 4 Copies Fee Lease - 3 Copies

2040 South Pacheco, Santa Fe, NM 87505 WELL LOCATION AND ACREAGE DEDICATION PLAT ☐ AMENDED REPORT

Blanco Mesaverde/Basin Dakota ¹ API Number ⁸Pool Code 72319/71599 30-039 - 29109B

⁴Property Code ⁶ Well Number ⁶Property Name 86M SAN JUAN 29-7 UNIT 7465 OGRID No. ⁸Operator Name ^D Elevation 14538 BURLINGTON RESOURCES OIL AND GAS COMPANY LP 6912'

¹⁰ Surface Location

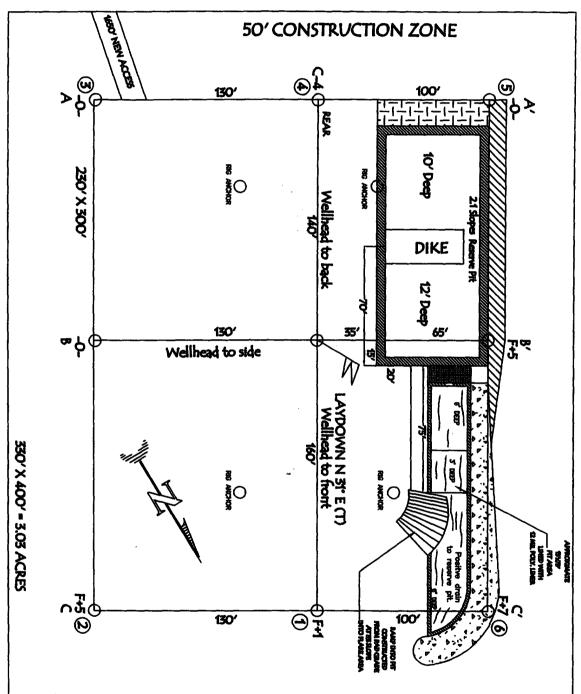
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	17	29-N	7-₩		125'	SOUTH	2255'	WEST	RIO ARRIBA
			11 Pott	om Uolo	Location I	f Different Fre	m Surface		

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/West line	County
		ļ			ļ		,		1
				<u> </u>					<u> </u>
Dedicated Acre	8		13 Joint or	lnfill	14 Consolidation C	ode	¹⁵ Order No.		
320 W/2			İ		}				
J 520 117 22					1				

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

			,	17 OPERATOR CERTIFICATION I hereby certify that the information contained herein te true and complete to the best of my knowledge and beltef
 NM SF	-078423			Signature Frances Bond Printed Name Regulatory Specialist Title
	LAT: 36'43.1435' N. LONG: 107'35.7016' W. NAD 1927	7	·	Date 18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted 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 bettef. Date of Survey
S 89'-44'-13' 2639.09'	" E 2255'			Signatury and Seli of Professional Surveyor:

Office Opties 10 Appropriate District	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. 30-039- 29696
<u>District II</u> 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	Santa Fe, NM 87505	6. State Oil & Gas Lease No.
District IV	Sama Pc, INVI 87505	NMSF-078423
1220 S. St. Francis Dr., Santa Fe, NM 8750		
	ES AND REPORTS ON WELLS TO DRILL OR TO DEEPEN OR PLUG BACK TO A	7. Lease Name or Unit Agreement Name
DIFFERENT RESERVOIR. USE "APPLICATIO"		San Juan 29-7 Unit
PROPOSALS.)		Jan Guil 27 1 Girt
1. Type of Well:		8. Well Number
Oil Well Gas Well X	Other	86M
2. Name of Operator	IDCES OIL & CAS COMBANIVI D	9. OGRID Number
3. Address of Operator	URCES OIL & GAS COMPANY LP	14538 10. Pool name or Wildcat
•	EET, FARMINGTON, NM 87402	Blanco Mesaverde/Basin Dakota
4. Well Location		
	feet from the South line and Township 29N Range 7V	2255 feet from the West line
Section 17	Township 29N Range 7V Elevation (Show whether DR, RKB, RT, GR, etc.)	V NMPM County Rio Arriba
	6912'	
Pit or Below-grade Tank Application	or Closure	
Pit type New Drill Depth to Groundwa	ater >100' Distance from nearest fresh water well	>1000' Distance from nearest surface water >1000'
Pit Liner Thickness: n/a	mil Below-Grade Tank: Volume	bbls; Construction Material
12 Check A	appropriate Box to Indicate Nature of No	stice Report or Other Data
NOTICE OF IN		
- parting	I	SUBSEQUENT REPORT OF: AL WORK ALTERING CASING
PERFORM REMEDIAL WORK TEMPORARILY ABANDON		NCE DRILLING OPNS. P AND A
PULL OR ALTER CASING		CEMENT JOB
OTHER: New		
	d operations. (Clearly state all pertinent details, and	
or recompletion.	SEE RULE 1103. For Multiple Completions: Atta	ach wendore diagram of proposed completion
	,	
New Drill, Unlined:		
Burlington Decourage proposes to co	nstruct a new drilling pit and an associated vent/flare	nit Reced on Burlington's interpretation of the
	new drilling pit and vent/flare pit will be an unlined	
		e NMOCD office. A portion of the vent/flare pit will be
-	-	a. Burlington Resources anticipates closing these pits
	Pit Closure Procedure dated August 2, 2004 on file	· · · · · · · · · · · · · · · · · · ·
	•	
VI		
	ove is true and complete to the best of my knowledge ed according to NMOCD guidelines , a general permit	
grade tank has been will be constitueted of clos	, a general permit	M au (attacheu) anci nauve OCD-approveu pian
SIGNATURE, Amanda	TITLE Reg	ulatory Assistant II DATE 9/28/2005
STORT STORY OF THE	11122	district Annual Control of the Contr
For State Use Only	a Sandoval E-mail address: <u>assandov</u>	al@br-inc.com Telephone No. 505-326-9891
		-
APPROVED BY		GAS MISPECTOR, DIST. 20 DEC 1 4 2005
APPPROVED BY Conditions of Approval (if any):		-



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.

LATITUDE: 36' 43.1435' LONGITUDE: 107" 35.7016" NAD27

BURLINGTON RESOURCES OIL & GAS COMPANY LP SAN JUAN 29-7 UNIT #86M, 125' FSL & 2255' FWL SECTION 17, T-29- N, R-7-W, NMPM, RIO ARRIBA COUNTY, NM GROUND ELEVATION: 6912', DATE: AUGUST 30, 2005

6900	6910	6920	6930	ELEV. C'-C	6900	6910	6920	0,00	620	ELEV. B'-B	6900	6910	6920	6930	ELEV. A'-A
A desired															
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							W								
1 1															
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NOTE: VECTOR SURVEYS IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES. PIPLINES OR CABLES ON WELL PAD AND OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION. CONTRACTOR SHOULD CALL ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED BURIED

OPERATIONS PLAN

<u>Well Name:</u>

SAN JUAN 29-7 UNIT 86M

Location:

125' FSL & 2255' FWL, Section 17 T29N R07W

Rio Arriba County, New Mexico

Formation:

Blanco Mesaverde/Basin Dakota

Elevation: 6912' GL

Formation Tops:	<u>Top</u>	<u>Bottom</u>	<u>Contents</u>
Surface	San Jose	2719'	
Ojo Alamo	2719'	2839 '	aquifer
Kirtland	2839'	3399'	gas
Fruitland Coal	3399'	3667'	gas
Pictured Cliffs	3667'	3827'	gas
Lewis	38271	 4296'	
Huerfanito Bentonite	4296'		
Chacra	4629'	5391'	gas
Massive Cliff House	5391'	5497'	gas
Menefee	י 5497	5837'	gas
Massive Point Lookout	5837'	6269'	gas
Mancos Shale	6269 '	7094'	
Upper Gallup	7094'	7824'	gas
Greenhorn	7824'	7877'	gas
Graneros	7877'	7923'	gas
Two Wells	7923'	8035'	gas
Upper Cubero	8035'	8059'	gas
Lower Cubero	8059'	8123'	gas
Encinal	8123!	8123'	gas
Total Depth:	8123'		gas

Logging Program:

Mud Logs/Coring/DST

Mud logs - from 7625'to topset TD to final TD Morrison

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>	<u>Fluid Loss</u>
0 - 200'	Spud MUD/Air/Air Mist	8.4 - 9.0	40 - 50	no control
200- 3927'	LSND	8.4 - 9.0	30 - 60	no control
3927 - 8123'	Air/Air Mist/Nitrogen	n/a	n/a	n/a

Casing Program (as listed, the equivalent, or better):

<u> Hole Size</u>	<u>Depth Interval</u>	<u>Csg.Size</u>	<u>Wt.</u>	<u>Grade</u>
12 1/4"	0' - 200'	9 5/8"	32.3#	H-40
8 3/4"	0' - 3927'	7"	20/23#	J-55
6 1/4"	0' - 8123'	4 1/2"	10.5#	J-55
<u>Tram:</u>				
<u>rram:</u>				

Tubing Program:

Depth Interval	<u>Csg.Size</u>	<u>Wt.</u>	<u>Grade</u>
0' - 8123'	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, rams 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, rams 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 147 sx Type III cement with 0.25 pps Celloflake, 2% CaCl. (188 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 336 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/29 sacks Premium Lite cement with 3% calcium chloride, .25 pps celloflake, 5 pps LCM-1, 0.4% fluid loss. Tail w/90 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 (840 cu ft - 50% excess to circulate to surface).

Cement nose quide shoe on bottom with float collar spaced on top of shoe joint. Bowspring centralizers spaced every third joint off bottom, to the base of the Ojo Alamo @ 2839'. Two turbolating centralizers at the base of the Ojo Alamo @ 2839'. 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 -

duction Casing Pump 268 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 (57/1 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 Mesa Verde and Dakota formations will be completed and commingled.
- 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 17 is dedicated to the Mesa Verde formation and Dakota formation.
- This gas is dedicated.

Drilling Engineer

11/7/05

Burlington Resources

2000 psi System **Drilling Rig**

Completton/Workover Rig BOP Configuration 2,000 pei System

Drilling Rig Choke Manifold Configuration 2000 psi System

{⊗i

Choke menifold installation from Surface Cesting spriest with two chokes.

Figure #3

ra double gute BOP to be equipped with bitn lans. 7-1/16" bars, 2000 pel minimur

4-20-01

Figure #1

4-20-01