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

1a.	Type of Work DRILL			5. Lease Num		<u> MAY 1. AM</u> 10
		ATTENTE AND		SF-0 Unit Report MV-8	79050- ting Num 9100105	ber-ARMINGTON
1b.	Type of Well GAS	RESULT OF THE PROPERTY OF THE	٠.	DK-89 6. If Indian, A	100105	1B - NMNIM -07
2.	Operator BURLINGTON	Se On.		7. Unit Agree		
	RESOURCES O	II & Gas Company	)	San Juan 2	8-6 Un:	1t
3.		f Operator armington, NM 87499		8. Farm or Lessan Juan 2 9. Well Numb	8-6 Un	
	(505) 326-9700			#148N		
4. Latit	Location of Well  1850' FN, 1630' F  2400' FNL, 560' FEL bott  cude 360 38.0661'N,	om Longitude 107 <sup>0</sup> 28.1056'	w G	11. Sec., Twn , Sec. 28,	averde , <b>Rge, M</b> T28N, :	/Basin Dakota er.(NMPM) R06W
Lati	tude 36 <sup>0</sup> 37.9761'N	N, Longitude 107 <sup>0</sup> 27.8871	, M A	12. API#	30-039-	29890
13.	Distance in Miles from N 31 Miles To Bland			<b>14. County</b> Rio Arriba		13. State NM
15.	Distance from Proposed	Location to Nearest Property or Le	ase Line			
16.	Acres in Lease			17. Acres Ass 320 acres	-	Well
18.	Distance from Proposed	Location to Nearest Well, Drig, Co	mpl, or A	Applied for on th	nis Lease	
19.	Proposed Depth 7653'			<b>20. Rotary or</b> Rotary	Cable To	ools
21.	Elevations (DF, FT, GR, 6402' GR, 6416' I			22. Approx.	Date Wo	rk will Start
23.	Proposed Casing and C See Operations	• •				
24.	Authorized by:	Joni Clark	_		5/1	106
	Regu	latory Analyst			Date	
PERMI	T NO.	APPRO	VAL DA	TE		
APPRO	OVED BY	// Anlesto TITLE/	FU		DATE _	5 125/06

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 action is subject to technical and procedural review pursuant to 43 GER 3165.2

NMOCD

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

State of New Mexico Energy, Minerals & Natural Resources Department Form C-102 Revised June 10, 2003

DISTRICT II 1301 W. Grand Ave., Artesia, N.M. 88210

OIL CONSERVATION DIVISION

1220 South St. Francis Dr. 2006 MAY 1

Santa Fe, NM 87505

Submit to Appropriate District Office

DISTRICT III 1000 Rio Brazos Rd., Aztec, N.M. 87410 10 State Lease - 4 Copies Fee Lease - 3 Copies

DISTRICT IV 1220 South St. Francis Dr., Santa Fe, NM 87505 RECEIVED \_\_\_ AMENDED REPORT OTO FARMINGTOR HIM

# WELL LOCATION AND ACREAGE DEDICATION PLAT

30-039 - 29890	<sup>2</sup> Pool Code 72319/71599	<sup>3</sup> Pool Nome Blanco Mesaverde/Basin Dakota	
<sup>4</sup> Property Code		<sup>6</sup> Well Number	
7462	SAN	148N	
<sup>7</sup> OGRID No.		<sup>®</sup> Elevation	
14538	BURLINGTON RESOU	RCES OIL & GAS COMPANY LP	6402'

<sup>10</sup> Surface Location

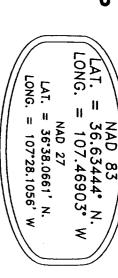
					Juliacc	Location			
UL or lot no.	Section	Township	Range	Lot idn	Feet from the	North/South line	Feet from the	East/West line	County
G	28	28-N	6-W		1850	NORTH	1630	EAST	RIO ARRIBA
			11 Botto	om Hole	Location If	Different From	Surface		
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
н	28	28-N	6-W		2400	NORTH	560	EAST	RIO ARRIBA
<sup>12</sup> Dedicated Acres 320 E/2			<sup>13</sup> Joint or	nfill	<sup>14</sup> Consolidation C	ode	<sup>15</sup> Order No.		

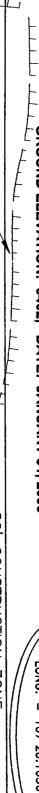
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

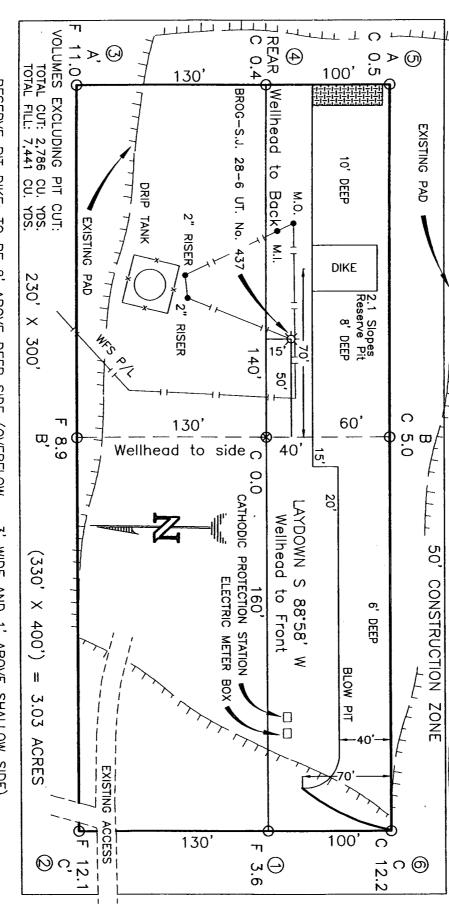
	<del></del>		EN APPROVED BY IF	
16	FD 2 1/2" BC. U.S.G.L.O. 1914  LAT. 36.63444* LONG. 107.46903*	S 89-53-37 W 2640.80' (M) N. (NAD 83) & W. (NAD 83) & Si' N. (NAD 27)	FD 2 1/2" BC.1 U.S.G.L.O. 1914 3 27-22 (W) 728-2597 50-03-26 (S) 789-26 (S) 7	17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.  Signature
The state of the s	LONG. 10728.10  006  LAT. 36.6  LONG. 107.4	USA SF	1630' -079050-A °B.H.L. FD 2 1/2" BC. U.S.G.L.O. 1914	Philana Thompson Printed Name  Regulatory Compl. Assoc. III Title  2/15/06  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 belief.  2006  Date  14831  Certificate NumberFESSION  Certificate NumberFESSION  Certificate NumberFESSION  Certificate NumberFESSION  Certificate NumberFESSION  Certificate NumberFESSION  Date  14831

Submit & Copies To Appropriate District	State of New Mexico		Form C-103
Office District I	Energy, Minerals and Natural Resource	es	May 27, 2004
1625 N. French Dr., Hobbs, NM 88240		WELL API NO.	30,030 29890
District II 1301 W. Grand Ave., Artesia, NM 88210	OIL CONSERVATION DIVISIO	N 5. Indicate Type of Lea	30-039-
District III	1220 South St. Francis Dr.	STATE	FEE
1000 Rio Brazos Rd., Aztec, NM 87410	Santa Fe, NM 87505	6. State Oil & Gas Leas	
<u>District IV</u>	· ·		,
1220 S. St. Francis Dr., Santa Fe, NM 8750	ES AND REPORTS ON WELLS	7. Lease Name or Unit	079050-A
	TO DRILL OR TO DEEPEN OR PLUG BACK TO A	7. Lease Name of Onit A	Agreement Name
DIFFERENT RESERVOIR. USE "APPLICATION	ON FOR PERMIT" (FORM C-101) FOR SUCH	San Ju	an 28-6 Unit
PROPOSALS.)		0 11 11 1	
1. Type of Well: Oil Well Gas Well X	Other	8. Well Number	#148N
2. Name of Operator		9. OGRID Number	
BURLINGTON RESO	URCES OIL & GAS COMPANY LP		14538
3. Address of Operator	EET EADMINGTON NM 97400	10. Pool name or Wildo	
4. Well Location	EET, FARMINGTON, NM 87402		FC/ WC PC
Unit Letter G: 1	850 feet from the North line and		
Section 28	Township 28N Range Elevation (Show whether DR, RKB, RT, GR, etc.)	<u>6W NMPM (</u>	County Rio Arriba
	Elevation (Snow whether DR, RRB, RI, GR, etc.)		
Pit or Below-grade Tank Application	or Closure	and the first territory	7200
Pit type New Drill Depth to Groundw	ater >50 Distance from nearest fresh water well	>1000 Distance from	nearest surface water
Pit Liner Thickness: 12	mil Below-Grade Tank: Volume	bbls; Construction M	/laterial
12 Check A	Appropriate Box to Indicate Nature of I	Notice Report or Other	Data
	ITENTION TO:	SUBSEQUENT R	
PERFORM REMEDIAL WORK	\	DIAL WORK	ALTERING CASING
TEMPORARILY ABANDON	CHANGE PLANS	IENCE DRILLING OPNS.	] PANDA
DULL OF ALTER CACING	MULTIPLE COMPL		
PULL OR ALTER CASING	MULTIPLE COMPL CASIN	G/CEMENT JOB	لہ
		_	
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BLOW PIT: OVERFLOW PIPE 8' ABOVE DEEP SIDE HALFWAY BETWEEN TOP (OVERFLOW - 3' AND BOTTOM AND TO EXTEND 1' ABOVE SHALLOW SIDE).
OVER PLASTIC LINER AND INTO BLOW PIT

NOTE: DAGGETT ENTERPRISES, INC. IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES. NEW MEXICO ONE CALL TO BE NOTIFIED 48 HOURS PRIOR TO EXCAVATION OR CONSTRUCTION.

NOTE: ESTIMATED VOLUMES CALCULATED BY AVERAGE END AREA AT CROSS-SECTION SHOWN

Daggett Enterprises, Inc.
Surveying and Oil Field Services
Surveying and Oil Field Services
Phone (505) 326-1772 · Fax (505) 326-8019
N. DAWN BY BL. COPILE BREASPLE
ROWLE BREASTS

NOTE: CONTRACTOR SHOULD CALL ONE—CALL FOR LOCATION OF ANY MARKED OR UNMARKED BURIED PIPELINES 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 28-6 UNIT No.148N, 1850 FNL 1630 FEL SECTION 28, T-28-N, R-6-W, N.M.P.M., RIO ARRIBA COUNTY, NEW MEXICO GROUND ELEVATION: 6402, DATE: JANUARY 31, 2006

NAD 83 LAT. = 36.63444° N. LONG. = 107.46903° W NAD 27 LAT. = 36'38.0661' N. LONG. = 107'28.1056' W

6380	6390	6400	6410	ELEV. A-A'
				Ā,
1				C/L
			1	

6380	6390	6400	6410	)	ELEV. B-B'
			1		la,
	    				C/L

6380	6390	6400	 6410	)	ELEV. C-C'
					C,
					C/L
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NOTE: DAGGETT ENTERPRISES, INC. IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES. NEW MEXICO ONE CALL TO BE NOTIFIED 48 HOURS PRIOR TO EXCAVATION OR CONSTRUCTION.

NOTE: CONTRACTOR SHOULD CALL ONE—CALL FOR LOCATION OF ANY MARKED OR UNMARKED BURIED PIPELINES OR CABLES ON WELL PAD AND OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION.

				J	
NEW MEN	Phone (505) 326	P. O. Box 150	Surveying a	Daggett	

Daggett Enterprises, Inc.
Surveying and Oll Field Services
P. O. Box 15068 • Farmington, NM 87401
Phone (505) 326–1772 • Fax (505) 326–8019

омте: 2/02/06

NEW MEXICO L.S. 14831
CADRIE BR543CFB
IMTE 04/05/05

ROW#: BR543

# **SAN JUAN 28-6 UNIT 148N OPERATIONS PLAN**

Well Name:

**SAN JUAN 28-6 UNIT 148N** 

Objective:

Blanco Mesa Verde/Basin Dakota

Location:

Rio Arriba NM

Elevation:

6402'

**Bottom Hole Coordinates/Footages** 

T-28 N R-6 W Sec.: 28

Surface Coordinates/Footages

T - 28 N R - 1850' FNL

*R - 6 W Séc.: 28* NL 1630' FEL

Latitude:

36° 38.0661' N

2400' FNL 560' FEL Latitude: 36° 37.9761' N

Longitute: 107° 28.1056' W

Longitute: 107° 27.8871' W

<u>Formation</u>	Top (TMD)	Top (TVD)	<b>Contents</b>
Surface	San Jose	San Jose	
Ojo Alamo	2607'	2493'	aquifer
Kirtland	2674'	2556'	gas
Fruitland	3188'	3036'	gas
Pictured Cliffs	3364'	3201'	gas
Lewis	3536'	3361'	gas
Huerfanito Bentonite	3998'	3798'	gas
Chacra	4366'	4161'	gas
Upper Cliff House	5088'	4883'	gas
Massive Cliff House	5098'	4893'	gas
Menefee	5238'	5033'	gas
Massive Point Lookout	5591'	5386'	gas
Mancos Shale	6101'	5896'	gas
Upper Gallup	6799'	6594'	gas
Greenhorn	7535'	7330'	gas
Graneros	7598'	7393'	gas
Two Wells	7629'	7424'	gas
Upper Cubero	7740'	7535'	gas
Lower Cubero	7776'	7571'	gas
Oak Canyon	7856'	7651'	gas
Encinal	7858'	7653'	gas
Total Depth:	7858 <b>'</b>	7653'	gas

Logging Program:

Cased Hole:

CBL-GR

Open Hole:

None

<u>Mud Program:</u>	Interval (TMD)	<u>l ype</u>	Weight (ppg)	<u>Vis. (s/qt)</u>	Fluid Loss (cc/30min)
	0' - 320'	Spud	8.4-9.0	40-50	No control
	320' - 4461'	Non-dispersed	8.4-9.0	30-60	Less than 8
	4461' - 7858'	Air/Air Mist/Nitrogen	n/a	n/a	n/a
Casing program:	Interval (TMD)	Hole Size	Casing Size	Weight	<u>Grade</u>
· · · · · · · · · · · · · · · · · · ·	0' - 320'	12 1/4"	9 5/8"	32.3#	H-40
	320' - 4461'	8 3/4"	7"	23.0#	L-80
	4461' - 7858'	6 1/4"	4 1/2"	11.6#	L-80
Tubing program:	Interval (TMD)	Hole Size	Casing Size	Weight	<u>Grade</u>
	0' - 7858'	Cased	2 3/8"	4.7#	J-55

### Wellhead Equipment

Drilling: Saw tooth quide shoe on bottom. Bowspring centralizers will be run in accordance with Onshore Order #2.

Drill to surface casing point of 320' and set 9.625" casing.

### **Intermediate**

Mud drill to kick off point of 400'. At this point the well will be directionally drilled by building 3 degrees per 100' with an azimuth of 116.99 degrees. The end of the build will be at a TVD of 1079, a TMD of 1094, a reach of 124, and an inclination of 20.81 degrees. This angle and azimuth will be held to a TVD of 3582', a TMD of 3772', and a reach of 1074'. At this point the well will be drilled with a drop of 3 degrees per 100'. The end of the drop will be at a TVD of 4261', a TMD of 4461', a reach of 1070', and an angle of 0.0 degrees. 7" casing will be set at this point.

### **Production**

From the shoe of the intermediate string, the well will be drilled vertically with an air hammer to a TVD of 7653' (TMD of 7858'). 4.5" casing will be set at this point.

### Cementing

9.625" surface casing conventionally drilled: 200% excess cement to bring cement to surface. Run 301 cu.ft. (235 sks) Type III cement with 3% CaCl2 and 1/4 pps celloflake (1.28 sks/ cu.ft.). Wait on cement appropriate time until cement achieves 250 psi compressive strength at 60° 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.

7" intermediate casing: **50%** excess cement to bring cement to surface.

Lead with 882 cu.ft. (414 sks) Premium Lite w/ 3% CaCl2, 0.25 pps Cello-Flake, 5 pps LCM-1, 0.4% FL-52 and 0.4% SMS (2.13 sks/ft3). Tail with 124 ft3 (90 sks) Type III cmt. w/ 1% CaCl2, 0.25 pps Cello-Flake and 0.2% FL-52 (1.38 sks/ft3). If cement does not circulate to surface, a CBL or a temperature survey will be run to determine TOC.

4.5" production casing: 30% excess cement to achieve 100' overlap with intermediate casing. Run 465 cu.ft. (235 sks) Premium Lite HS FM + 0.25pps Cello-Flake, 0.3% CD-32, 6.25pps LCM-1, 1% FL-52 (1.98 sks/ft3.)

### **BOP and Tests**

Surface to Total Depth – 11", 2000 psi double gate BOP stack (Reference Figure #1).

Surface to Total Depth – choke manifold (Reference Figure #2).

Prior to drilling out surface casing, test BOPE and casing to 600 psi for 30 minutes.

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

BOPE tests will be performed using an appropriately sized test plug and test pump and will be recorded using calibrated test gauges and a properly calibrated strip or chart recorder. The test will be recorded in the driller's log and will include a low pressure test requirement of 250 psig held for five minutes and a high pressure test requirement held for ten minutes as described in Onshore Order No. 2 or otherwise noted in the APD. A successful BOPE test using a test plug is considered when no pressure drop occurs over the duration of the test. Test gauges and recorders must be of the proper range and resolution commensurate with the authorized test pressure. Where the intermediate casing strings are used. only one BOPE test will be necessary contingent upon the test being conducted to the highest approved test pressure to which BOPE will be exposed. Casing pressure tests must be held for 30 minutes with no more than 10 percent pressure drop during the duration of the test.

# Additional Information:

- This gas is dedicated to the East half of section 28.
- New casing will be utilized.
- Pipe movement (reciprocation) will be done if hole conditions permit.
- No abnormal pressure zones are expected.
- BHP is expected to be 2000 psi.

**Drilling Engineer** 

Aguradon

Drilling Rig Choke Manifold Configuration 2000 pel System

**Burlington Resources** 

Drilling Rig 2000 psi System

FOO FLOOR

ř

TOPE GATE

E PRILUP LINE

ROTATING HEAD?

Choke manifold installation from Surface Cesting Point to Total Daph. 2,000psi working pressure equipment with two chokes.

Figure #3

4-20-01

Figure #1

Minimum BOP installation for ett Comptation/Workover Operations. 7-1/16\* bore, 2000 pel minimum working pressure double gate BOP to be equipped with blind and pipe rama. A stripping head to be installed on the top of the BOP. All BOP equipment is 2000 pel working pressure or gnester excluding 500 pel artipping head.

4-20-01

