UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUGBACK 5. Lease Number RECEIVED 1a. Type of Work NMSF-078424INGTON NM DRILL Unit Reporting Number 6. If Indian, All. or Tribe 1b. Type of Well GAS 2. Operator 7. Unit Agreement Name BURLINGTON RESOURCES Oil & Gas Company, LP San Juan 29-7 Unit 3. Address & Phone No. of Operator 8. Farm or Lease Name PO Box 4289, Farmington, NM 87499 9. Well Number (505) 326-9700 #50M Location of Well 10. Field, Pool, Wildcat Surface - Unit O (SWSE), 735' FSL & 1445' FEL Basin DK / Blanco MV Est. BH - Unit I (NESE), 1880' FSL & 320' FEL, Surface - Latitude 36º 42.3687'N 11. Sec., Twn, Rge, Mer. (NMPM) Surface - Longitude 107º 34.2991'W Est. BH - Latitude - 36.42.5564'N O Sec. 21, T29N, R07W Est. BH - Longitude - 107.34.0684'N API # 30-039-14. 13. State Distance in Miles from Nearest Town 12. County Rio Arriba NM 15. Distance from Proposed Location to Nearest Property or Lease Line 16. Acres in Lease 17. Acres Assigned to Well E/2 - MV/DK - 320 acres 18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease Twinned with the 29-7 Unit #50A 19. **Proposed Depth** 20. Rotary or Cable Tools 8030' TVD - 8346' TMD Rotary 21. Elevations (DF, FT, GR, Etc.) 22. Approx. Date Work will Start 6792' GL 23. **Proposed Casing and Cementing Program** See Operations Plan attached 6/06 24. Authorized by: Regulatory Specialist Date PERMIT NO. APPROVAL DATE APPROVED BY TITLE Archaeological Report attached HXXD C184 FOR Threatened and Endangered Species Report attached 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 agencies.

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

B

United States any false, fictitious or fraudulent statements or presentations as to any matter within its jurisdiction.

1625 N. French Dr., Hobbs, N.M. 68240

State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised June 10, 2003

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

DISTRICT III 1900 Rio Brazos Rd., Aztec, N.M. 87410

OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87500 FEB

FM 9 26

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

DISTRICT IV 1220 South St. Francis Dr., Santa Fe, NM 67505

RECEIVED

☐ AMENDED REPORT

,	WELL LOCATION A	ND ACREAGE DEDICATION	1 PLAT		
1 API Number 30-039 - 39	796 72319 / 71599		ol Name Basin Dakota		
⁴ Property Code		⁶ Property Name		⁶ Well Number	
7465	SA	n Juan 29—7 unit	-	50M	_
OGRID No.		⁶ Operator Name		⁰ Elevation	
14538	BURLINGTON RESO	PURCES OIL & GAS COMPANY LP	/	6792	
	10	Surface Location			

14330									
					10 Surface	Location			
UL or lot no.	Section	Township	Range	Lot Idn	Peet from the	North/South line	Feet from the	East/West line	Coun
0	21	29-N	7-₩		735	SOUTH	1445	EAST	RIO ARRIB
			11 Bott	om Hole	Location I	f Different Fro	om Surface		
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	Coun
I	21	29-N	7-W		1880	SOUTH	320	EAST	RIO ARRIB
Dedicated Acre	28		18 Joint or	Infill	¹⁶ Consolidation (Code	¹⁶ Order No.		
MV/DK 320	ac E2				İ	ı			
•									
NO ALLOW	ADIE W	III DE	CCICNE	O TO TH	COMPLETE	IN TIMPET ATT	INTEDECTO U	AME DEEN CO	MCOLIDATE

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AU ADDONAUDD N	OR A NON-STANI	DARD UNIT HAS B	EEN APPROVE	D BY	THE DIVISION
,	ON N NON-SIANI	ONII IIAD D	DEN AFFROVE	- DI	IIID DIVIDION
			FD 2 1/2* BC.	GLO 1913	17 OPERATOR CERTIFICATION I hereby certify that the information contained herein
		,		4	is true and complete to the best of my knowledge and
	•	 	.,		signature Clust
	Į!]		4	Patsy Clugston
	į			≥ _[Printed Name
		 		00-00-09 5260.19' (C)	Sr. Regulatory Specialist
				90-(5260.	01/24/06 Date
	2	1		z	
		NMSF-0	78424	1	18 STIRVEYOR CERTIFICATION
					DOINTERON OBJETTE TOATION
	,	ВОП	OM HOLE LOCA	. J.	I hereby certify that the well location shown on this pla was plotted from field notes of actual surveys made by
		CALC'D FR		320	me or under my supervision, and that the same is true
		N 00-00-09 W	, 62.27 /2" GLO		and correct to the best of my belief.
		BC	1913		JANUARY 1907 COME RUS
	LAT. 36°42.3687	 			Date of Survey Signatury and Joseph Fredhaming Surveyor:
	LONG. 107 34.2991		1445'		
	FD 2 1/2" GLO	S 89-38-39 E		\ \	Certificate Number

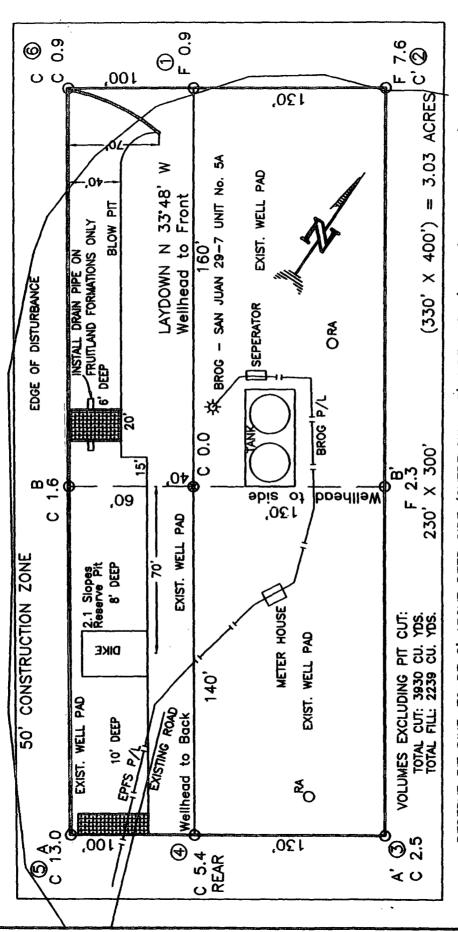
Submit 3 Copies To Appropriate District	State of New	Mexico		Form C-103
Office District 1	Energy, Minerals and N	Vatural Resources		May 27, 2004
1625 N. French Dr.; Hobbs, NM 88240			WELL API NO.	30 29796
District II 1301 W. Grand Ave., Artesia, NM 8821	OIL CONSERVATI	ON DIVISION	5. Indicate Type of Lease	039-04/10
District III	1220 South St. I		STATE STATE	FEE 🗍
1000 Rio Brazos Rd., Aztec, NM 87410			6. State Oil & Gas Lease No).
District IV	·	10,000		
1220 S. St. Francis Dr., Santa Fe, NM 8	7505 ICES AND REPORTS ON WELLS		Federal Lease 7. Lease Name or Unit Agre	
(DO NOT USE THIS FORM FOR PROPOSA			7. Lease Name of Offic Agre	Cilicit Name
DIFFERENT RESERVOIR. USE "APPLICA"	TION FOR PERMIT" (FORM C-101) FOR S	SUCH	San Juan 2	9-7 Unit
PROPOSALS.)			8. Well Number	
1. Type of Well: Oil Well Gas Well	Other		#50	М
2. Name of Operator	3		9. OGRID Number	
	SOURCES OIL & GAS COMPAN	Y LP	145:	38
3. Address of Operator	TREET, FARMINGTON, NM 8740	10	10. Pool name or Wildcat Basin DK / B	Plance MV
4. Well Location	REET, FARMINGTON, NM 8/40		Dasiii DK / E	Statico IVI V
Unit Letter O :	735 feet from the Son		1445 feet from the	Eastline
Section 21	Township 29N, 1. Elevation (Show whether DR, RK	Range 7W	NMPM Coun	ty Rio Arriba
	1. Elevation (Snow whether DR, RN 6792			
Pit or Below-grade Tank Application	or Closure			
Pit type New Drill Depth to Groun	dwater >100' Distance from near	est fresh water well	>1000' Distance from neare	st surface water >1000
Pit Liner Thickness: n/a	mil Below-Grade Tank:	Volume	bbls; Construction Mater	ial
12 Checl	k Appropriate Box to Indica	te Nature of Not	ice Report or Other Da	nta
	INTENTION TO:		SUBSEQUENT REPO	
PERFORM REMEDIAL WORK	7 PLUG AND ABANDON	REMEDIAL		ALTERING CASING
TEMPORARILY ABANDON	CHANGE PLANS		E DRILLING OPNS.	P AND A
PULL OR ALTER CASING	MULTIPLE COMPL	CASING/C	EMENT JOB	_
OTHER: N	ew Drill	X OTHER:		
13. Describe proposed or compl	eted operations. (Clearly state all p	ertinent details, and g	ive pertinent dates, including	estimated date
	rk). SEE RULE 1103. For Multiple	e Completions: Attac	h wellbore diagram of propose	ed completion
or recompletion.				
New Drill, Unlined:				
Burlington Resources proposes to	construct a new drilling pit and an	associated vent/flare r	it Based on Burlington's into	ernretation of the
	the new drilling pit and vent/flare p	-	_	•
	ation Procedures dated November 1			
designed to manage fluids, and the	at portion will be unlined, as per the	risk ranking criteria.	Burlington Resources anticip	
according to the Drilling / Worko	ver Pit Closure Procedure dated Aug	gust 2, 2004 on file the	at the NMOCD office.	
I hereby certify that the information a				
grade tank has been/will be constructed or o	losed according to NMOCD guidelines	, a general permit X	or an (attached) alternative OCD	approved plan
SIGNATURE TOTAL	Chiap TIT	TE 0- P-	gulatory Specialist	DATE 1/05/0006
		51. Re	guiatory opecialist	DATE 1/25/2006
	sy Clugston E-mail add	dress: <u>pclugston@</u>	<u>Obr-inc.com</u> Telephone No	. 505-326-9518
For State Use Only	/ // ,			
APPPROVED BY	TIT IN THE	LEGEVIT OL & G	AS INSPECTOR, DIST. AN	DATE APR 0 3 2006
Conditions of Approval (If any):	· · ·			
Conditions of Approval (if ally).				

BURLINGTON RESOURCES OIL & GAS COMPANY LP SAN JUAN 29-7 UNIT No. 50M, 735 FSL 1445 FEL

SECTION 21, T-29-N, R-7-W, N.M.P.M., RIO ARRIBA COUNTY, NEW MEXICO

GROUND ELEVATION: 6792, DATE: JANUARY 10, 2006

LATITUDE: 36-42.3687 N (NAD 27) LONGITUDE: 107"34.2991 W (NAD 27)



PIT DIKE: TO BE 8' ABOVE DEEP SIDE (OVERFLOW - 3' WIDE AND 1' ABOVE SHALLOW SIDE). OVERFLOW PIPE HALFWAY BETWEEN TOP AND BOTTOM AND TO EXTEND OVER PLASTIC LINER AND INTO BLOW PIT. RESERVE F 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.

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. NOTE



Burlington resources oil & Gas Company LP

SAN JUAN 29-7 UNIT No. 50M, 735 FSL 1445 FELL 120 1 1.29 N R.7.W N M P.M. RIO ARRIBA COUNTY, NEW ME

SECTION 21, T-29-N, R-7-W, N.M.P.M., RIO ARRIBA COUNTY, NEW MEXICO GROUND ELEVATION: 6792, DATE: JANUARY 10, 2006

LATITUDE: 36°42.3687' N (NAD 27) LONGITUDE: 107°34.2891' W (NAD 27)

C/L					۵/۲				۵/۲				
ELEV. A-A'	6810	900 0089	6790	6780	ELEV. 8-8'	6810	 0629	0829	ELEV. C-C'	6810	0089	0629	

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.

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. NOTE:



SAN JUAN 29-7 UNIT #50M OPERATIONS PLAN

Well Name: San Juan 29-7 Unit #50M

Location Rio Arriba County, New Mexico

Surface: 735' FSL, 1445' FEL, Section 21, T-29-N, R-7-W

Latitude 36° 42.3687'N, Longitude 107° 34.2991'W

Bottom Hole: 1880' FSL, 320' FEL, Section 21, T-29-N, R-7-W

Latitude 36° 42.5564'N, Longitude 107° 35.0684'W

Formation Blanco Mesa Verde/Basin Dakota

Elevation 6792' GL

Formation Tops	Top (TVD)	Top (TMD)	Contents
Surface	San Jose		
Ojo Alamo	2681'	2851'	aquifer
Kirtland	2781'	2560'	gas
Fruitland	3346'	3576'	gas
Pictured Cliffs	3586'	3837'	gas
Lewis	3754'	4020'	gas
Huerfanito Bentonite	4286'	4596'	gas
Chacra	4541'	4856'	gas
Intermediate set point	: 150' into Chacra		_
Massive Cliff House	5306'	5622'	gas
Menefee	5391'	5707'	gas
Massive Point Lookout	5748'	6064'	gas
Mancos	6196'	6512'	gas
Gallup	7004'	7320'	gas
Greenhorn	7718'	8034'	gas
Graneros	777 9 '	8095'	gas
Two Wells	7824'	8140'	gas
Upper Cubero	7937'	8253'	gas
Lower Cubero	7963'	8279'	gas
Encinal	8030'	8346'	-
TD	8030'		

Logging Program

Cased Hole - CBL-GR- TD to surface

Open Hole - None

Mud Program

Interval (TMD)	<u>Type</u>	Weight	<u>Vis.</u>	Fluid Loss
0- 350'	Spud	8.4-9.0	40-50	no control
350- 5007'	Non-dispersed	8.4-9.0	30-60	less than 8
5007'- 8346'	Air/Air Mist/Nitrogen	n/a	n/a	n/a

Drilling (Reference Plot #1).

Surface Hole

Drill to surface casing point of 350' and set 9 5/8" casing.

Intermediate Hole

Mud drill to kick off point of 400'. At this point the well will be directionally drilled by building 4.0 degrees per 100' with an azimuth of 44.55 degrees. The end of the build will be at a TVD of 970', a TMD of 986', a reach of 118', and an angle of 23.43 degrees. This angle and azimuth will be held to a TVD of 4121', a TMD of 4421', and a reach of 1484'. At this point the well will be drilled with a drop of 4.0 degrees per 100'. The end of the drop will be at a TVD of 4691', a TMD of 5007', a reach of 1602', and an angle of 0.0 degrees. 7" casing will be set at this point.

Production Hole

From the shoe of the intermediate string, the well will be drilled vertically with an air hammer to a TMD of 8346' (TVD of 8030'). 4 ½" casing will be set at this point.

Materials

Casing program

Hole Size	Interval (TMD)	Csq. Size	<u>Weight</u>	<u>Grade</u>
12 1/4"	0' - 350'	9 5/8"	32.3#	H-40
8 3/4"	350' - 5007'	7"	23#	L-80
6 1/4"	5007' - 8346'	4 ½"	11.6#	L-80

Tubing Program

Tubing 1 togram									
Hole Size	Interval (TMD)	Csg. Size	<u>Weight</u>	<u>Grade</u>					
2 3/8"	0' - 8346'	2 3/8"	4.7#	J-55					

Wellhead Equipment

9 5/8" x 7" X 4 1/2" x 2 3/8" - 11" (2000 psi) wellhead assembly

9 5/8" surface casing conventionally drilled: 200% excess cement to bring cement to surface Run 329 ft³ (257 sks) Type III cement with 3% CaCl₂ and 1/4 pps celloflake (1.28 sks/ft³). 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" production casing: 50% excess cement to bring cement to surface

Lead with 1005 ft3 (472 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 ½" production casing: 30% excess cement to achieve 100' overlap with intermediate casing Run 323 ft³ (156 sks) Premium Lite HS FM + 0.25pps Cello-Flake, 0.3% CD-32, 6.25pps LCM-1, 1% FL-52 (1.98 sks/ft³). 4009°; 2278° => 30% excess

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

BOP and Tests:

Surface to production TD - 11", 2000 psi double gate BOP stack (Reference Figure #1).

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

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

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

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.
- The east half of section 21 is dedicated to the Mesaverde and Dakota of this well.
- 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



Field: Rio Arriba, NM

Site: SEC 21-T29N-R7W Well: SAN JUAN 29-7 #50M

Wellpath: OH Plan: Plan #2

BURLINGTON RESOURCES

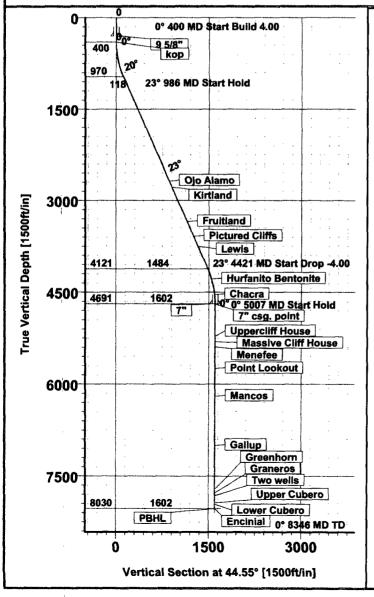
	SECTION DETAILS									
Sec	MD	inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	
3	985.79	23.43	44.55	969.59	84.18	82.86	4.00	0.00	118.12	
4	4420.87	23.43	44.55	4121.41	1057.65	1041.10	0.00	0.00	1484.09	
5	5006.65	0.00	0.00	4691.00	1141.83	1123.96	4.00	180.00	1602.21	7" csg. point
6	8345.65	0.00	0.00	8030.00	1141.83	1123.96	0.00	0.00	1602.21	PBHL

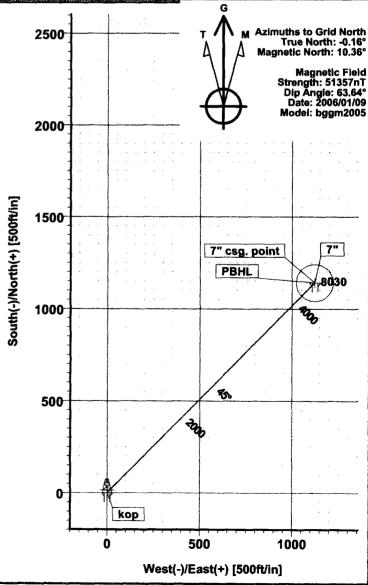
WELL DETAILS

Name +N/-S +E/-W Northing Easting Latitude Longitude Slot SAN JUAN 29-7 #50M -3278.88 7594.05 2076396.120 576708.050 36°42'22.122N 107°34'17.947W N/A

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
7" csg. point	4691.00	1141.83		2077537.950	577832.010	Point
PBHL	8030.00	1141.83		2077537.950	577832.010	Circle (Radius: 100)





Burlington Resources

2000 psi System **Drilling Rig**

7

T FILL AND LINES

Paris Paris

BURLINGTON RESOURCES

4-20-01

Figure #1

4-20-01

ura double gate BQP to be eq Stone. 7-1/16" born, 2000 pel mini ding 600 psi stripping head had on the top of

straum BOP trust

Choke manifold installation from Surface Cashy wint to Total Depth. 2,000pul working pressure

Figure #3

Completion/Workover Rig BOP Configuration 2,000 psi System