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

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACKS MAR 17 RECEIVED 5. Lease Number 1a. Type of Work NMSF-079491=ARMINGTON NM DRILL NMNM-078409BM1 NMNM-678409A-DK Type of Well 6. If Indian, All. or Tribe 1b. GAS 2. Operator 7. Unit Agreement Name BURLINGTON RESCURCES Oil & Gas Company San Juan 27-5 Unit 3. Address & Phone No. of Operator 8. Farm or Lease Name San Juan 27-5 Unit PO Box 4289, Farmington, NM 87499 9. Well Number #99M (505) 326-9700 10. Field, Pool, Wildcat 4. **Location of Well** Blanco Mesaverde/Basin Dakota 305' FNL, 1550' FWL surface ← bottom hole F 1660'FNL, 1977' FWL 11. Sec., Twn, Rge, Mer. (NMPM) Surface-Latitude 36<sup>o</sup>35.6765'N, Longitude 107<sup>o</sup>19.8573' Sec. 11, T27N, R05W Bottom Hole-Lat. 36035.4534'N, Longitude 107019.7669' API # 30-039- 2 9850 14. 13. State Distance in Miles from Nearest Town 12. County 11 miles to Gobernador, NM Post Office Rio Arriba ΝM 15. Distance from Proposed Location to Nearest Property or Lease Line 305 Acres in Lease 17. Acres Assigned to Well 16. 320 N/2 DK - W/2 320 MV 18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 19. **Proposed Depth** 20. Rotary or Cable Tools 80071 Rotary 21. Elevations (DF, FT, GR, Etc.) 22. Approx. Date Work will Start 6706' GR 23. **Proposed Casing and Cementing Program** See Operations Plan attached 24. Authorized by: \

Regulatory Assistant III

PERMIT NO.

APPROVED B

APPROVAL DATE

APT HAR VEH ARE LAPT ANGE WITH ATTACHED

Archaeological Report attached

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

U15trict | PO Box 1980, Hopbs, NM 88241-1980

District II PO Drawer DD, Artesia, NM 88211-0719

District III 1000 Rio Brazos Rd., Aztec, NM 87410

District IV PO Box 2088, Santa Fe, NM 87504-2088 State of New Mexico Energy, Minerals & Natural Resources Department Form C-102 Revised February 21, 1994 Instructions on back Submit to Appropriate District Office

OIL CONSERVATION DIVISION
PO Box 2088
Santa Fe. NM 87504-2088

State Lease - 4 Copies Fee Lease - 3 Copies

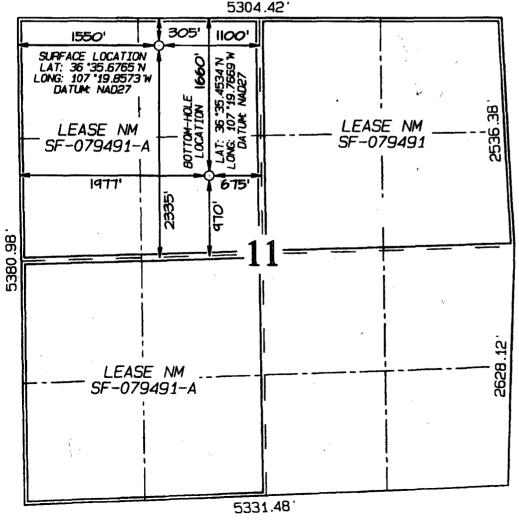
2005 MAR 17 AM 8 43 AMENDED REPORT

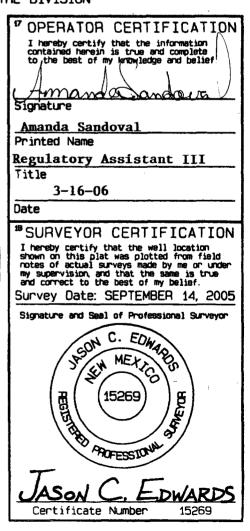
WELL LOCATION AND ACREAGE DEDICATION TOLAT

'API Number	*Pool Code	Pool Code 010 A Pool Name		
30-039- 29	350 71599/72319	Blanco Mesaverde/ Basin Dako	ta	
<sup>4</sup> Property Code		Property Name	Well Number	
7454	SAN J	UAN 27-5 UNIT	99M	
'OGRID No.	•(	Operator Name	Elevation	
14538	BURLINGTON RESOUR	RCES OIL & GAS COMPANY, LP	6706	

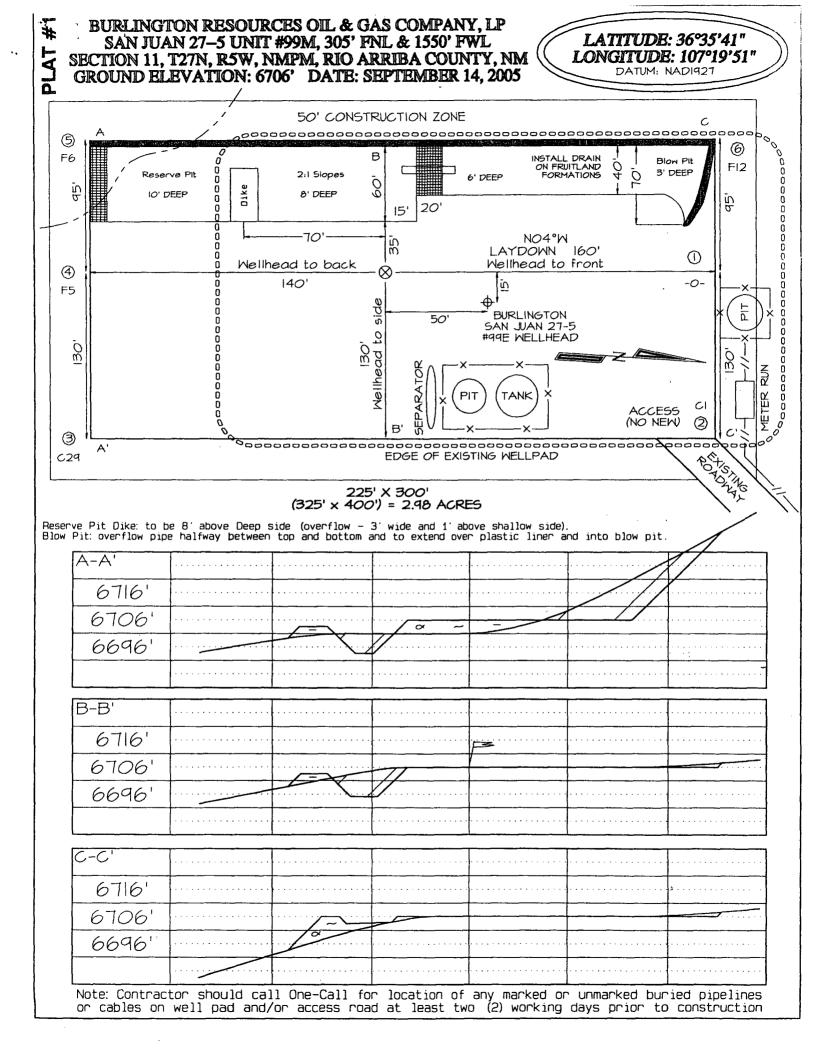
10 Surface Location Township Feet from the North/South line UL or lot no. Lot Ide Feet from the East/West line Range RIO C 11 27N 5W 305 NORTH 1550 WEST ARRIBA 11 Bottom Hole Location If Different From Surface RIO UL or lot no. North/South line Section Feet from the East/West line F **5W** NORTH 1977 WEST 11 27N 1660 ARRIBA SJoint or Infill <sup>14</sup> Coreolidation Code SOrder No. N2 320 DK W2 320 MV

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





Office	State of New Mexico	Form C-103			
District I	Energy, Minerals and Natural Resources	May 27, 2004			
1625 N. French Dr., Hobbs, NM 88240 District II		WELL API NO. 30-039- 79850			
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 District IV	Santa Fe, NM 87505	6. State Oil & Gas Lease No.			
1220 S. St. Francis Dr., Santa Fe, NM 8750	05	NMSF-079491-A			
-	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 "APPLICATION		San Juan 27-5 Unit			
PROPOSALS.)					
1. Type of Well: Oil Well Gas Well X	Other	8. Well Number #99M			
2. Name of Operator		9. OGRID Number			
BURLINGTON RESC 3. Address of Operator	DURCES OIL & GAS COMPANY LP	14538			
•	EET, FARMINGTON, NM 87402	Blanco Mesaverde/Basin Dakota			
4. Well Location		1550 C. (C. d. W.)			
Unit Letter C : :	305 feet from the North line and Township 27N Rng 5V	1550 feet from the <u>West</u> line  V NMPM County Rio Arriba Co.			
	Elevation (Show whether DR, RKB, RT, GR, etc.)				
Pit or Below-grade Tank Application	or Closure 6706'				
Pit type new drill Depth to Groundw		>1000' Distance from nearest surface water 21000'			
Pit Liner Thickness: n/a	mil Below-Grade Tank: Volume	bbis; Construction Material			
12 Check	Appropriate Box to Indicate Nature of No	stice Penart or Other Data			
	TENTION TO:	SUBSEQUENT REPORT OF:			
PERFORM REMEDIAL WORK		AL WORK ALTERING CASING			
TEMPORARILY ABANDON	hand 1	ICE DRILLING OPNS. P AND A			
PULL OR ALTER CASING	MULTIPLE COMPL CASING/	CEMENT JOB			
	Orill Pit X OTHER:				
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of starting any proposed work or recompletion.					
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of starting any proposed work or recompletion.  New Drill, Unlined:	). SEE RULE 1103. For Multiple Completions: Atta	ch wellbore diagram of proposed completion			
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### **SAN JUAN 27- UNIT #99M OPERATIONS PLAN**

Well Name: San Juan 27-5 Unit #99M

**Location** Rio Arriba County, New Mexico

Surface: 305' FNL, 1977' FWL, Section 11, T-27-N, R-5-W

Latitude 36° 35.6766'N, Longitude 107° 19.8576'W

Bottom Hole: 1660' FNL, 1550' FWL, Section 11, T-27-N, R-5-W

Latitude 36° 35.4534'N, Longitude 107° 19.7670'W

Formation Blanco Mesa Verde/Basin Dakota

Elevation 6706'GL

Formation Tops	Top (TVD)	Top (TMD)	Contents
Surface	San Jose		
Ojo Alamo	2920'	3060'	aquifer
Kirtland	3087'	3238'	gas
Fruitland	3307'	3472'	gas
Pictured Cliffs	3559'	3740'	gas
Lewis	3750'	3944'	gas
Huerfanito Bentonite	4085'	4300'	gas
Chacra	4500'	4730'	gas
Intermediate set point	: 150' into Chacra		
Massive Cliff House	5327'	5557'	gas
Menefee	5365'	5595'	gas
Massive Point Lookout	5702'	5932'	gas
Mancos	6225'	6455'	gas
Gallup	6888'	7118'	gas
Greenhorn	7655'	7885'	gas
Graneros	7715'	7945'	gas
Two Wells	7745'	7975'	gas
Upper Cubero	7858'	8088'	gas
Lower Cubero	7905'	8135'	gas
Oak Canyon	7989'	8219'	-
Encinal	8007'	8237'	
TD	8007'	8237'	

### 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 - 4880'	Non-dispersed	8.4-9.0	30-60	less than 8
4880'- 8237'	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 172.40 degrees. The end of the build will be at a TVD of 890', a TMD of 900', a reach of 87', and an angle of 20.01 degrees. This angle and azimuth will be held to a TVD of 4160', a TMD of 4380', and a reach of 1277'. 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 4650', a TMD of 4880', a reach of 1364', 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 8237' (TVD of 8007'). 4 ½" casing will be set at this point.

### **Materials**

### Casing program

Hole Size	Interval (TMD)	Csg. Size	<u>Weight</u>	Grade
12 1/4"	0' - 350'	9 5/8"	32.3#	H-40
8 3/4"	350' - 4880'	7"	23#	L-80
6 1/4"	4880' - 8237'	4 1/2"	11.6#	L-80

### **Tubing Program**

Hole Size	Interval (TMD)	Csg. Size	Weight	<u>Grade</u>
2 3/8"`	0' - 8237'	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

### Cementing:

9 5/8" surface casing conventionally drilled: 200% excess cement to bring cement to surface
Run 376 ft<sup>3</sup> (294 sks) Type III cement with 3% CaCl<sub>2</sub> and 1/4 pps celloflake (1.28 sks/ ft<sup>3</sup>). 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 976 ft³ (458 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 459 ft<sup>3</sup> (232 sks) Premium Lite HS FM + 0.25pps Cello-Flake, 0.3% CD-32, 6.25pps LCM-1, 1% FL-52 (1.98 sks/ft<sup>3</sup>).

Saw tooth guide 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 BOPE 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 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.
- The North and West half of section 11 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

Dafa

# **BURLINGTON RESOURCES**

**Burlington Resources** 

2000 psi System **Drilling Rig** 

Drilling Rig Choke Manifold Configuration 2000 pel System

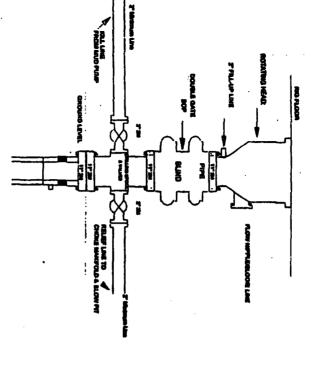


Figure #1

4-20-01

Point to Total Depth. 2,000psi working pressure ment with two chokes. ion from Surface Cestry

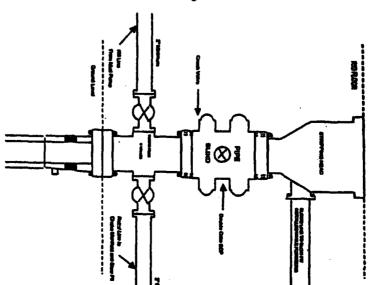
Figure #3

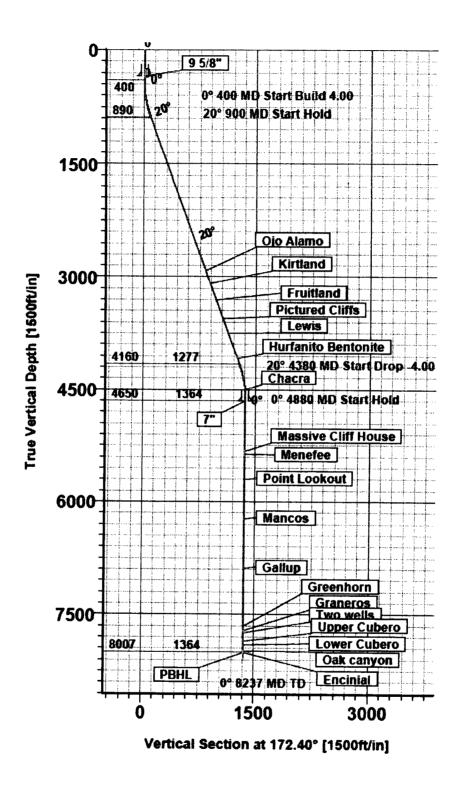
a ranta. A stripping head to be installed on the top of ura double gata BOP to be equ rum BOP installation for atl Corr ons. 7-1/10" bors, 2000 pel mb ing 600 put stripping head

4-20-01

# **BURLINGTON RESOURCES**

Completion/Workover Rig BOP Configuration 2,000 pai System





Plot 1: Directional plan for SJ 27-5 99M 1



Field: Rio Arriba, NM

Site: SEC 11-T27N-R5W Well: SAN JUAN 27-5 #99M

Wellpath: OH Plan: Plan #1

## 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	900.34	20.01	172.40	890.23	-85.74	11.44	4.00	0.00	86.50	
4	4380.02	20.01	172.40	4159.77	-1266.17	168.94	0.00	0.00	1277.39	
5	4880.36	0.00	0.00	4650.00	-1351.91	180.38	4.00	180.00	1363.89	
6	8237.36	0.00	0.00	8007.00	-1351.91	180.38	0.00	0.00	1363.89	PBHL

**WELL DETAILS** 

Name +N/-S +E/-W Northing Easting Latitude Longitude Slot SAN JUAN 27-5 #99M 0.00 0.00 2036073.820 647746.310 36°35'40.582N 107°19'48.145W N/A

### **TARGET DETAILS**

Name TVD +N/-S +E/-W Northing Easting Shape
PBHL 8007.00 -1351.91 180.38 2034721.910 647926.690 Circle (Radius: 100)

