

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

2005 FEB 10 PM 1 50

1a. Type of Work DRILL	5. Lease Number NMNM-111921 Unit Reporting Number MV-8910010510 DK-891001051B
1b. Type of Well GAS	6. If Indian, All. or Tribe
2. Operator BURLINGTON RESOURCES Oil & Gas Company	7. Unit Agreement Name
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	8. Farm or Lease Name Negro Canyon 9. Well Number #100S
4. Location of Well 1355' FSL, 1005' FWL surface 1320' FSL, 1218' FEL bottom hole Surface-Latitude 36°54.4776'N, Longitude 107°37.9365' W Bottom Hole-Lat. 36°54.4633'N, Longitude 107°37.3530' W	10. Field, Pool, Wildcat Basin Fruitland Coal 11. Sec., Twn, Rge, Mer. (NMPM) W 1/4 Sec. 12, T31N, R08W API # 30-045- 32894
14. Distance in Miles from Nearest Town 25 miles to Blanco, NM Post Office	12. County San Juan ✓ 13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 1005'	
16. Acres in Lease	17. Acres Assigned to Well 320 S/2
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 56'	
19. Proposed Depth 3887'	20. Rotary or Cable Tools Rotary
21. Elevations (DF, FT, GR, Etc.) 6903' GR	22. Approx. Date Work will Start
23. Proposed Casing and Cementing Program See Operations Plan attached	
24. Authorized by: <u>Joni Clark</u> Senior Regulatory Specialist	<u>2/10/05</u> Date

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE 3-2-05

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.

This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4

NMOCD

DRILLING OPERATIONS AUTHORIZED ARE
SUBJECT TO COMPLIANCE WITH ATTACHED

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
611 South First, Artesia, N.M. 88210

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

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

OIL CONSERVATION DIVISION

2040 South Pacheco
Santa Fe, NM 87505

2005 FEB 10 PM 1 50

DISTRICT IV
2040 South Pacheco, Santa Fe, NM 87505

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-045-32894	*Pool Code 71629	*Well Name 070 FARMINGTON NM Basin Fruitland Coal
*Property Code 34287	*Property Name NEGRO CANYON	*Well Number 100S
*OGED No. 14538	*Operator Name BURLINGTON RESOURCES OIL AND GAS COMPANY LP	*Elevation 6903'

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
L	12	31-N	8-W		1355'	SOUTH	1005'	WEST	SAN JUAN

¹¹ 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
I	12	31-N	8-W		1320'	SOUTH	1218'	EAST	SAN JUAN

¹² Dedicated Acres S/2 320 acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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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

<p>16</p> <p>USA NMNM-111921</p> <p>LAT: 36°54.4776' N, LONG: 107°37.9385' W, NAD 1927</p> <p>1005'</p> <p>Surface Location</p> <p>1355'</p> <p>S 89-14-39 E 2572.52'</p> <p>LAT: 36°54.4633' N, LONG: 107°37.3530' W, NAD 1927</p> <p>1218'</p> <p>Bottom Hole</p> <p>1320'</p> <p>N 89-14-52 W 2572.79'</p>	<p>17 OPERATOR CERTIFICATION</p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</p> <p><i>Joni Clark</i> Signature Joni Clark Printed Name Regulatory Specialist Title 2-1-05 Date</p> <p>18 SURVEYOR CERTIFICATION</p> <p>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.</p> <p>Date of Survey 2-29-05 Signature and Seal of Registered Surveyor <i>Carl W. Russell</i> Certificate Number 15703</p>
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District I

1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Ave., Artesia, NM 88210

District III

1000 Rio Brazos Rd., Aztec, NM 87410

District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, NM 87505

WELL API NO.

30-045-

5. Indicate Type of Lease

STATE ☐

FEE ☐

6. State Oil & Gas Lease No.

NMNM-111921

7. Lease Name or Unit Agreement Name

Negro Canyon

8. Well Number

100S

9. OGRID Number

14538

10. Pool name or Wildcat

Basin Fruitland Coal

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well:

Oil Well ☐

Gas Well ☒

Other

2. Name of Operator

BURLINGTON RESOURCES OIL & GAS COMPANY LP

3. Address of Operator

3401 E. 30TH STREET, FARMINGTON, NM 87402

4. Well Location

Unit Letter L : 1355 feet from the South line and 1005 feet from the West line

Section 12 Township 31N Range 8W NMPM County San Juan NM

11. Elevation (Show whether DR, RKB, RT, GR, etc.)

Pit or Below-grade Tank Application

☒ or Closure ☐

Pit type New Drill Depth to Groundwater >100' Distance from nearest fresh water well

>1000' Distance from nearest surface water

>1000'

Pit Liner Thickness:

mil

Below-Grade Tank:

Volume

bbls;

Construction Material

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐

PLUG AND ABANDON ☐

TEMPORARILY ABANDON ☐

CHANGE PLANS ☐

PULL OR ALTER CASING ☐

MULTIPLE COMPL ☐

OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐

ALTERING CASING ☐

COMMENCE DRILLING OPNS. ☐

P AND A ☐

CASING/CEMENT JOB ☐

OTHER: ☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Burlington Resources proposes to construct a new drilling pit and an associated vent/flare pit. Based on Burlington's interpretation of the Ecosphere's risk ranking criteria, the new drilling pit and vent/flare pit will be an unlined pit as detailed in Burlington's Revised Drilling / Workover Pit Construction / Operation Procedures dated November 11, 2004 on file at the NMOCD office. A portion of the vent/flare pit will be designed to manage fluids, and that portion will be unlined, as per the risk ranking criteria. Burlington Resources anticipates closing these pits according to the Drilling / Workover Pit Closure Procedure dated August 2, 2004 on file at the NMOCD office.

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☐, a general permit ☒ or an (attached) alternative OCD-approved plan ☐.

SIGNATURE

Joni Clark

TITLE

Regulatory Specialist

DATE

2/4/2005

Type or print name

Joni Clark

E-mail address:

jclark@br-inc.com

Telephone No.

326-9700

For State Use Only

APPROVED BY

[Signature]

TITLE

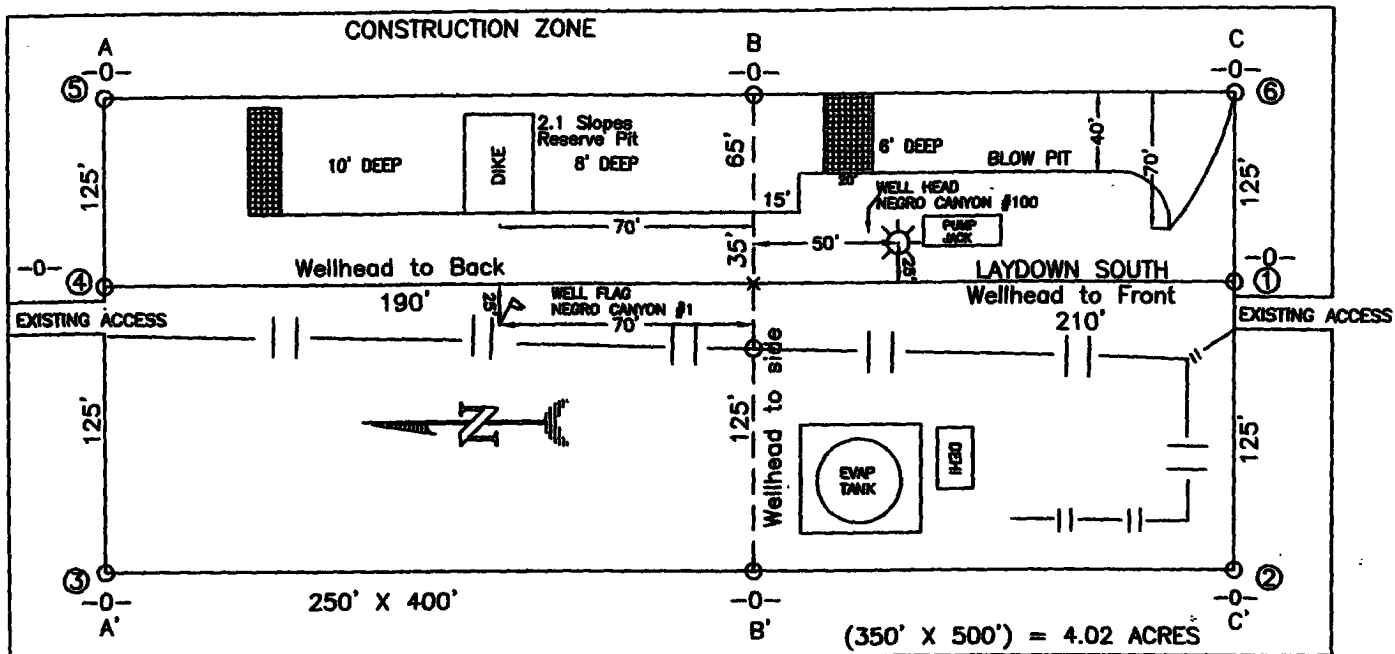
DEPUTY OIL & GAS INSPECTOR, DIST. #2

DATE

MAR - 3 2005

Conditions of Approval (if any):

BURLINGTON RESOURCES OIL & GAS COMPANY LP
NEGRO CANYON #100S, 1355,' FSL & 1005' FWL
SECTION 12, T-31-N, R-8-W, NMPM, SAN JUAN COUNTY, NM
GROUND ELEVATION: 6903', DATE: JANUARY 24, 2005



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

ELEV. A-A'	C/L					
6920						
6910						
6900						
6890						

ELEV. B-B'	C/L					
6920						
6910						
6900						
6890						

ELEV. C-C'	C/L					
6920						
6910						
6900						
6890						

WELL PAD SKETCH
NOT TO SCALE

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

OPERATIONS PLAN

Well Name: Negro Canyon #100S

Location: Surface - 1355' FSL, 1005' FWL, Section 12, T-31-N, R-8-W
Bottom Hole - 1320' FSL, 1218' FEL, Section 12, T-31-N, R-8-W
San Juan County, New Mexico

Surface - Latitude 36° 54.4776'N, Longitude 107° 37.9365'W

Bottom Hole - Latitude 36° 54.4633'N, Longitude 107° 37.3530'W

Formation: Basin Fruitland Coal

Elevation: 6903' GL

<u>Formation Tops:</u>	<u>TVD</u>	<u>TMD</u>	<u>TVD</u> <u>Bottom</u>	<u>Contents</u>
Surface		San Jose	2647'	
Ojo Alamo	2647'	3775'	2737'	aquifer
Kirtland	2737'	3913'	3267'	gas
Fruitland	3267'	4519'	3467'	
Intermediate TD	3417'	4670'		
T/Coal	3467'	4720'	3802'	
B/Coal	3802	5055'	3803'	
Pictured Cliffs	3803'	5056'		gas
TD	3887'	5140'		

Burlington Resources requests a sump on this well

Logging Program:

Mudlog from 7" csg to 3887' (TVD).

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'-3417'	LSND	8.4-9.0	30-60	less than 12
3417'-3887'	Air/Mist			

Drilling:

Surface Hole:

Drill to surface casing point of 200' and set 9 5/8" casing.

Intermediate Hole:

Mud drill to kick off point of 250'. At this point the well will be directionally drilled by building 6.0 degrees per 100' with an azimuth of 91.62 degrees. The end of the build will be at a TVD of 1000', a TMD of 1113', and an angle of 51.78 degrees. This angle and azimuth will be held to a total depth of 2667' TVD and 3807' TMD. To enter the productive interval vertical, the well will be dropped 6.0 degrees per 100'. The well will be vertical at 7" casing point of 3417' TVD and 4670' TMD.

Production Hole:

Production hole will be drilled vertical from 3417' TVD to 3887' TVD.

Materials:

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

<u>Hole Size</u>	<u>Interval</u>	<u>Size</u>	<u>Weight</u>	<u>Grade</u>
	<u>TOP</u>	<u>Bottom (TVD)</u>		
12 1/4"	0'	200'	9 5/8"	32.3#
8 3/4"	0'	3417'	7"	20#/23.0#
6 1/4"	3317'	3887'	5 1/2"	15.5#

<u>Casing program: (alternate)</u>					
<u>Hole Size</u>	<u>Interval</u>		<u>Size</u>	<u>Weight</u>	<u>Grade</u>
	<u>TOP</u>	<u>Bottom (TVD)</u>			
12 1/4"	0'	200'	9 5/8"	32.3#	H-40
8 3/4"	0'	3417'	7"	20#/23.0#	J-55/L-80

<u>Tubing Program:</u>					
2 3/8"	0'	3887'	2 3/8"	4.7#	J-55

<u>Tubing Program: (alternate)</u>					
3 1/2"	0'	3887'	2 7/8"	9.2#	J-55

Float Equipment: 9 5/8" surface casing - saw tooth guide shoe. Centralizers will be run in accordance with Onshore Order #2.

7" intermediate casing - guide shoe and self-fill float collar. Standard centralizers run every other joint above shoe. Two turbolizing type centralizers - one below and one into the base of the Ojo Alamo @ 2737' (TVD). Standard centralizers thereafter every fourth joint up to the base of the surface pipe.

Wellhead Equipment

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

Cementing:

9 5/8" surface casing -

Pre-Set Drilled Cement with 39 sx Type I, II cement with 20% flyash mixed at 14.5 ppg, 1.61 cu ft per sack yield. (63 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 sxs Type III cement with 0.25 pps Celloflake, 3% 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. **WOC until cement establishes 250 psi compressive strength prior to NU of BOPE.**

7" intermediate casing - lead w/436 sacks Premium Lite with 3% calcium chloride, 5 pps LCM-1, and 1/4#/sack flocele, 0.4% FL-52, & 0.4% SMS. Tail with 90 sacks Type III cmt with 1% calcium chloride, 1/4#/sack flocele and 0.2% FL-52 (1053 cu.ft., 50% excess to circulate to surface).

Note: If open hole logs are run, cement volumes will be based on 25% excess over caliper volumes.

5 1/2" liner - will not be cemented if run.

BOP and tests:

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

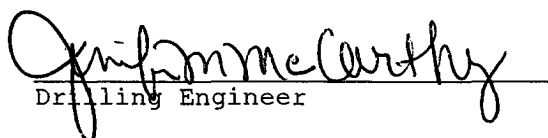
Intermediate TD to Total Depth - 7 1/6" 2000 psi (minimum) completion BOP stack (Reference Figure #2) Prior to drilling out intermediate casing, test BOPE and casing to 1500 psi for 30 minutes.

From surface to 7" TD - a choke manifold will be installed in accordance with Onshore Order No. 2 (Reference Figure #3). When the cavitation completion rig drills the production hole, the completion rig configuration will be used (Reference Figure #4). ~~No choke manifolds will be used on cavitation rig completion.~~

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 less than 1600 psi.
- * This gas is dedicated.
- * The south half of Section 12 is dedicated to the Fruitland Coal.

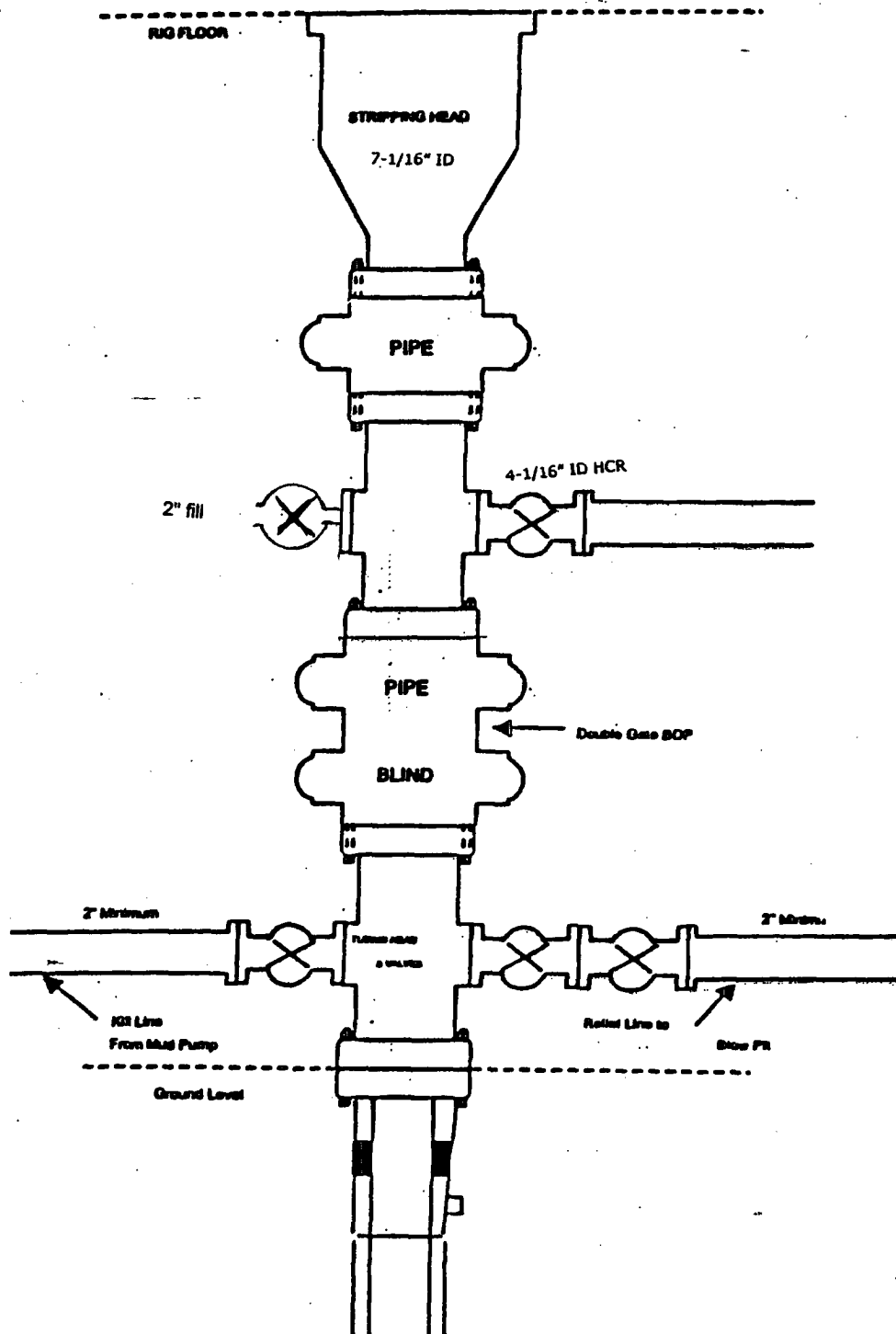

Drilling Engineer

2-10-05
Date

BURLINGTON RESOURCES

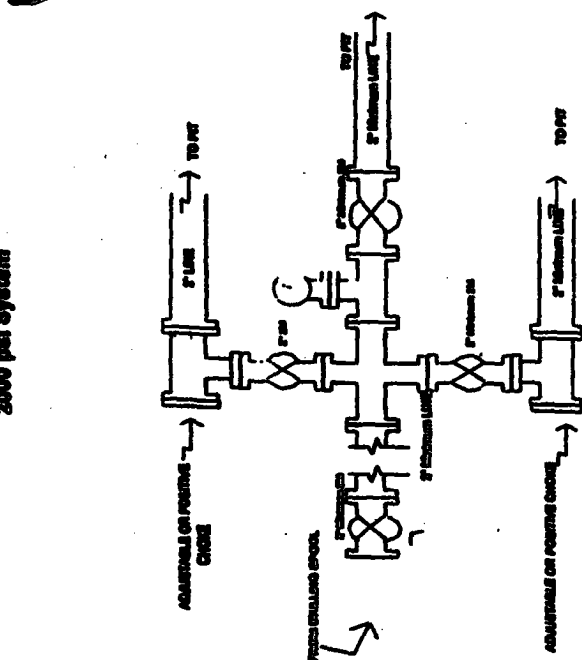
FIGURE #4

Cavitation Rig
BOP Configuration
2,000 psi Minimum System

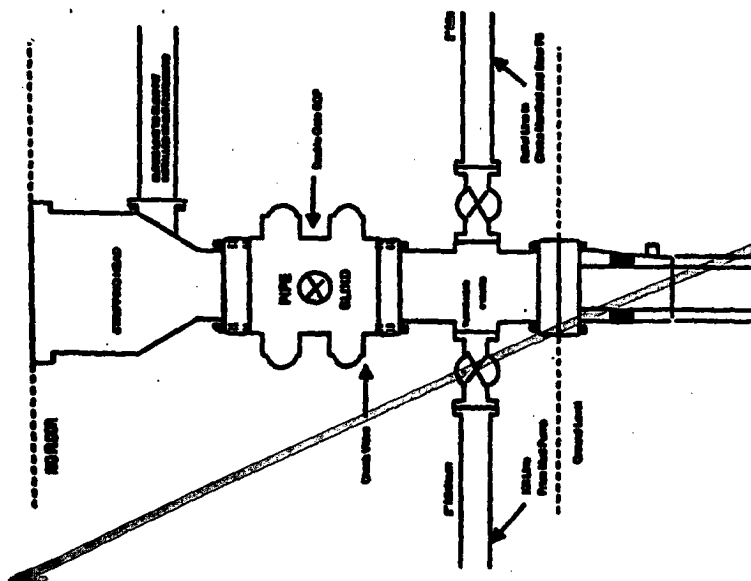


Burlington Resources

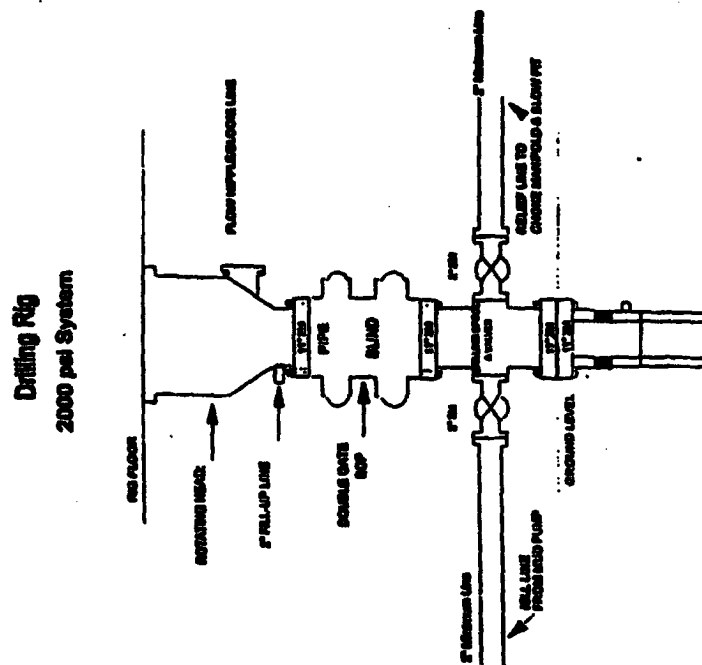
**Completion/Workover Rig
BOP Configuration
2,000 psi System**



Choice manifold installation from Surface Coating
Point to Total Depth. 2,000psi working pressure
equipment with two choices.



Minimum SGP insulation for all CompleteOffshore Operations. 7-11/8" bare, 2000 psi minimum working pressure elastic gate SGP to be equipped with blind and pipe rams. A shipping head to be located on the top of the SGP. All SGP equipment to 2000 psi and working pressure or greater including SSO and shipping head.



SIOP Installation from Surface Casting Point to Total Depth, 11" Bore
10" Minimum, 2000 psi working pressure double gate SIOP to be
equipped with 3"drill rods and pipe caps. A 600 psi working pressure
SIOP equipment is 2,000 psi working pressure

Burlington Resources Inc.

Planning Report - Geographic

Database: EDM 2003.5 Single User Db
Company: Burlington
Project: Negro Canyon
Site: Section 12
Well: Negro 100S
Wellbore: 1
Design: Plan #1

Local Co-ordinate Reference: Well Negro 100S
TVD Reference: RKB Negro 101S @ 6902.0ft (Aztec 301)
MD Reference: RKB Negro 101S @ 6902.0ft (Aztec 301)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (m)	Map Easting (m)	Latitude	Longitude
0.0	0.00	91.62	0.0	0.0	0.0	655266.28	170317.00	36° 54' 028" N	107° 37' 056" W
100.0	0.00	91.62	100.0	0.0	0.0	655266.28	170317.00	36° 54' 028" N	107° 37' 056" W
200.0	0.00	91.62	200.0	0.0	0.0	655266.28	170317.00	36° 54' 028" N	107° 37' 056" W
9 5/8"									
250.0	0.00	91.62	250.0	0.0	0.0	655266.28	170317.00	36° 54' 028" N	107° 37' 056" W
300.0	3.00	91.62	300.0	0.0	1.3	655266.27	170317.40	36° 54' 028" N	107° 37' 056" W
400.0	9.00	91.62	399.4	-0.3	11.8	655266.18	170320.58	36° 54' 028" N	107° 37' 056" W
500.0	15.00	91.62	497.2	-0.9	32.5	655266.00	170326.92	36° 54' 028" N	107° 37' 055" W
600.0	21.00	91.62	592.2	-1.8	63.4	655265.74	170336.33	36° 54' 028" N	107° 37' 055" W
700.0	27.00	91.62	683.5	-3.0	104.0	655265.38	170348.71	36° 54' 028" N	107° 37' 054" W
800.0	33.00	91.62	770.1	-4.4	154.0	655264.95	170363.94	36° 54' 028" N	107° 37' 054" W
900.0	39.00	91.62	851.0	-6.0	212.7	655264.44	170381.84	36° 54' 028" N	107° 37' 053" W
1000.0	45.00	91.62	925.2	-7.9	279.6	655263.87	170402.21	36° 54' 028" N	107° 37' 052" W
1100.0	51.00	91.62	992.1	-10.0	353.8	655263.23	170424.84	36° 54' 028" N	107° 37' 051" W
1113.1	51.78	91.62	1000.3	-10.3	364.0	655263.14	170427.95	36° 54' 028" N	107° 37' 051" W
1200.0	51.78	91.62	1054.1	-12.3	432.3	655262.55	170448.76	36° 54' 028" N	107° 37' 050" W
1300.0	51.78	91.62	1115.9	-14.5	510.8	655261.87	170472.70	36° 54' 028" N	107° 37' 049" W
1400.0	51.78	91.62	1177.8	-16.7	589.4	655261.19	170496.63	36° 54' 028" N	107° 37' 048" W
1500.0	51.78	91.62	1239.6	-18.9	667.9	655260.51	170520.57	36° 54' 028" N	107° 37' 047" W
1600.0	51.78	91.62	1301.5	-21.2	746.5	655259.83	170544.51	36° 54' 028" N	107° 37' 047" W
1700.0	51.78	91.62	1363.4	-23.4	825.0	655259.15	170568.44	36° 54' 028" N	107° 37' 046" W
1800.0	51.78	91.62	1425.2	-25.6	903.5	655258.47	170592.38	36° 54' 028" N	107° 37' 045" W
1900.0	51.78	91.62	1487.1	-27.8	982.1	655257.80	170616.31	36° 54' 028" N	107° 37' 044" W
2000.0	51.78	91.62	1549.0	-30.1	1060.6	655257.12	170640.25	36° 54' 028" N	107° 37' 043" W
2100.0	51.78	91.62	1610.8	-32.3	1139.1	655256.44	170664.19	36° 54' 028" N	107° 37' 042" W
2200.0	51.78	91.62	1672.7	-34.5	1217.7	655255.76	170688.12	36° 54' 028" N	107° 37' 041" W
2300.0	51.78	91.62	1734.5	-36.8	1296.2	655255.08	170712.06	36° 54' 028" N	107° 37' 040" W
2400.0	51.78	91.62	1796.4	-39.0	1374.8	655254.40	170735.99	36° 54' 028" N	107° 37' 039" W
2500.0	51.78	91.62	1858.3	-41.2	1453.3	655253.72	170759.93	36° 54' 028" N	107° 37' 038" W
2600.0	51.78	91.62	1920.1	-43.4	1531.8	655253.04	170783.87	36° 54' 028" N	107° 37' 037" W
2700.0	51.78	91.62	1982.0	-45.7	1610.4	655252.37	170807.80	36° 54' 028" N	107° 37' 036" W
2800.0	51.78	91.62	2043.9	-47.9	1688.9	655251.69	170831.74	36° 54' 028" N	107° 37' 035" W
2900.0	51.78	91.62	2105.7	-50.1	1767.4	655251.01	170855.68	36° 54' 028" N	107° 37' 034" W
3000.0	51.78	91.62	2167.6	-52.3	1846.0	655250.33	170879.61	36° 54' 028" N	107° 37' 033" W
3100.0	51.78	91.62	2229.4	-54.6	1924.5	655249.65	170903.55	36° 54' 028" N	107° 37' 032" W
3200.0	51.78	91.62	2291.3	-56.8	2003.0	655248.97	170927.48	36° 54' 028" N	107° 37' 031" W
3300.0	51.78	91.62	2353.2	-59.0	2081.6	655248.29	170951.42	36° 54' 028" N	107° 37' 030" W
3400.0	51.78	91.62	2415.0	-61.3	2160.1	655247.61	170975.36	36° 54' 028" N	107° 37' 029" W
3500.0	51.78	91.62	2476.9	-63.5	2238.7	655246.94	170999.29	36° 54' 027" N	107° 37' 028" W
3600.0	51.78	91.62	2538.8	-65.7	2317.2	655246.26	171023.23	36° 54' 027" N	107° 37' 027" W
3700.0	51.78	91.62	2600.6	-67.9	2395.7	655245.58	171047.16	36° 54' 027" N	107° 37' 026" W
3775.0	51.78	91.62	2647.0	-69.6	2454.6	655245.07	171065.11	36° 54' 027" N	107° 37' 025" W
Ojo Alamo									
3800.0	51.78	91.62	2662.5	-70.2	2474.3	655244.90	171071.10	36° 54' 027" N	107° 37' 025" W
3806.9	51.78	91.62	2666.7	-70.3	2479.7	655244.85	171072.74	36° 54' 027" N	107° 37' 025" W
3900.0	46.20	91.62	2727.8	-72.3	2549.9	655244.25	171094.15	36° 54' 027" N	107° 37' 024" W
3913.2	45.41	91.62	2737.0	-72.6	2559.3	655244.16	171097.02	36° 54' 027" N	107° 37' 024" W
Kirtland									
4000.0	40.20	91.62	2800.7	-74.2	2618.3	655243.66	171114.99	36° 54' 027" N	107° 37' 023" W
4100.0	34.20	91.62	2880.3	-76.0	2678.7	655243.13	171133.40	36° 54' 027" N	107° 37' 023" W
4200.0	28.20	91.62	2965.8	-77.4	2730.4	655242.69	171149.17	36° 54' 027" N	107° 37' 022" W
4300.0	22.20	91.62	3056.3	-78.6	2773.0	655242.32	171162.13	36° 54' 027" N	107° 37' 022" W
4400.0	16.20	91.62	3150.7	-79.6	2805.8	655242.03	171172.15	36° 54' 027" N	107° 37' 021" W
4500.0	10.20	91.62	3248.0	-80.2	2828.6	655241.84	171179.10	36° 54' 027" N	107° 37' 021" W
4600.0	4.20	91.62	3347.1	-80.6	2841.1	655241.73	171182.91	36° 54' 027" N	107° 37' 021" W
4669.9	0.00	91.62	3417.0	-80.6	2843.7	655241.71	171183.69	36° 54' 027" N	107° 37' 021" W
7"									