

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

2005 MAY 26 2 27 C 33

1a. Type of Work
DRILL

1b. Type of Well
GAS

2. Operator
BURLINGTON
RESOURCES Oil & Gas Company

3. Address & Phone No. of Operator
PO Box 4289, Farmington, NM 87499
(505) 326-9700

4. Location of Well
1225' FSL, 1400' FWL Surface location
1250' FSL, 50' FWL Bottom hole location
Latitude 36° 40.7106'N, Longitude 107° 33.7167' W Surface location
Latitude 36° 40.7161'N, Longitude 107° 33.9924' W Bottom hole location

5. Lease Number
NMSF-078425
Unit Reporting Number

6. If Indian, All. or Tribe

7. Unit Agreement Name
San Juan 29-7

8. Farm or Lease Name
San Juan 29-7

9. Well Number
#61M

10. Field, Pool, Wildcat
Blanco Mesaverde/ Basin Dakota

11. Sec., Twn, Rge, Mer. (NMPM)
N Sec. 34, T29N, R07W
API # 30-039- 29556

12. County
Rio Arriba

13. State
NM

14. Distance in Miles from Nearest Town
22.6 miles to Blanco Post Office

15. Distance from Proposed Location to Nearest Property or Lease Line
1225'

16. Acres in Lease

17. Acres Assigned to Well
MV/DK W/2 320

18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease
43.5'

19. Proposed Depth
8052'

20. Rotary or Cable Tools
Rotary

21. Elevations (DF, FT, GR, Etc.)
6696' GR

22. Approx. Date Work will Start

23. Proposed Casing and Cementing Program
See Operations Plan attached

24. Authorized by: Joni Clark
Regulatory/Compliance Specialist

Date 8/4/04

PERMIT NO.

APPROVAL DATE

APPROVED BY [Signature]

TITLE AFM

DATE 10/6/05

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.

NMOC

HOLD C104 FOR Directional Survey

DISTRICT I
P.O. Box 1980, Hobbs, N.M. 88241-1980

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102

Revised February 21, 1994

Instructions on back

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

DISTRICT II
P.O. Drawer DD, Artesia, N.M. 88211-0719

OIL CONSERVATION DIVISION

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

P.O. Box 2088

Santa Fe, NM 87504-2088

☐ AMENDED REPORT

DISTRICT IV
PO Box 2088, Santa Fe, NM 87504-2088

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039- 29556	² Pool Code 71599/72319	³ Pool Name Blanco Mesaverde/ Basin Dakota
⁴ Property Code 7465	⁵ Property Name SAN JUAN 29-7 UNIT	⁶ Well Number 61M
⁷ OGRI No. 14538	⁸ Operator Name BURLINGTON RESOURCES OIL & GAS INC.	⁹ Elevation 6696

¹⁰ Surface Location

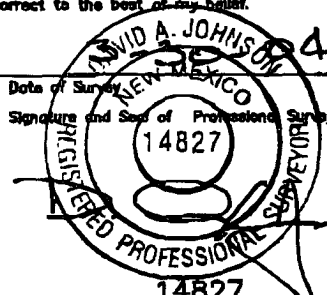
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	34	29-N	7-W		1225	SOUTH	1400	WEST	RIO ARRIBA

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
M	34	29-N	7-W		1250	SOUTH	50	WEST	RIO ARRIBA

¹² Dedicated Acres MV W/2 320 DK W/2 320	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

SEC. CORNER FD 2 1/2" GLO 1913 B.C.				¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief Signature <u>Joni Clark</u> Printed Name <u>Joni Clark</u> Title <u>Regulatory Specialist</u> Date <u>8/4/04</u>
N 00°03'56" W 5258.94' (M)	RECEIVED OCT 20 2004 NMSF-078425	SURFACE LOCATION LAT: 36°40.7106' N. (NAD 27) LONG: 107°33.7167' W. (NAD 27)		
SEC. CORNER FD 3 1/2" GLO 1913 B.C.	S 89°34'23" E 2643.69' (M)	QTR. CORNER FD 2 1/2" GLO 1913 B.C.		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.  Date of Survey <u>8/4/04</u> Signature and Seal of Professional Surveyor: <u>[Signature]</u> Certificate Number <u>14827</u>

Submit 3 Copies To Appropriate District Office

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

State of New Mexico
Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-103

March 4, 2004

WELL API NO.

30-039-

29556

5. Indicate Type of Lease

STATE ☐

FEE ☐

6. State Oil & Gas Lease No.

7. Lease Name or Unit Agreement Name

San Juan 29-7 Unit

8. Well Number

61M

9. OGRID Number

14538

10. Pool name or Wildcat

Blanco Mesaverde/Basin Dakota

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 N : 1225 feet from the South line and 1400 feet from the West line

Section 34 Township 29N Range 7W NMPM Rio Arriba County, NM

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

Pit or Below-grade Tank Application (For pit or below-grade tank closures, a form C-144 must be attached)

Pit Location: UL N Sect 34 Twp 29N Rng 7W Pit type New Depth to Groundwater >100' Distance from nearest fresh water

well >1000' Distance from nearest surface water >1000' Below-grade Tank Location UL Sect Twp Rng ;

feet from the line and feet from the line

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 COMPLETION ☐

OTHER: New Drill Pit

☒

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐

ALTERING CASING ☐

COMMENCE DRILLING OPNS. ☐

PLUG AND ABANDONMENT ☐

CASING TEST AND 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 drill pit. The new drill pit will be an unlined pit as detailed in Burlington's general pit construction plan dated April 26, 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 Cassady Harraden TITLE Regulatory Specialist DATE 5/19/04

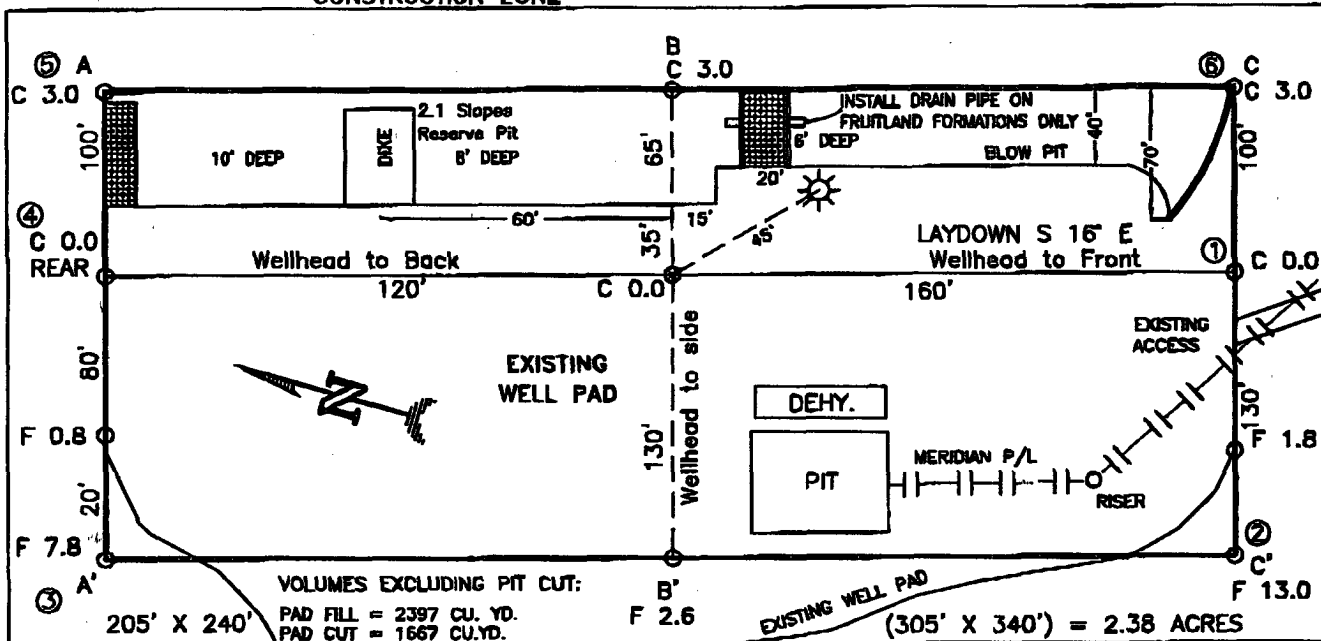
Type or print name Cassady Harraden E-mail address: charraden@br-inc.com Telephone No. 326-9700

(This space for State use)

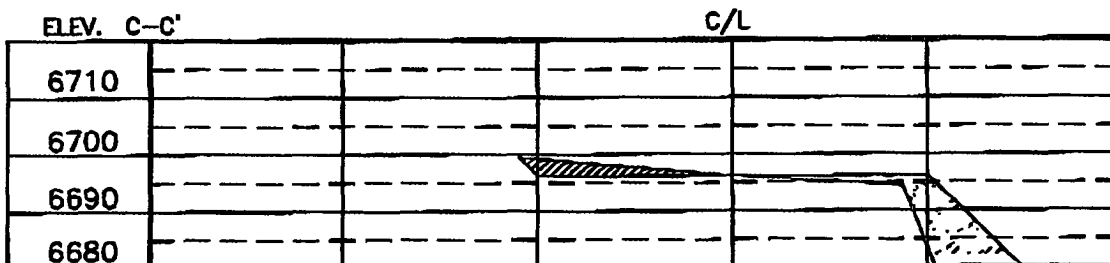
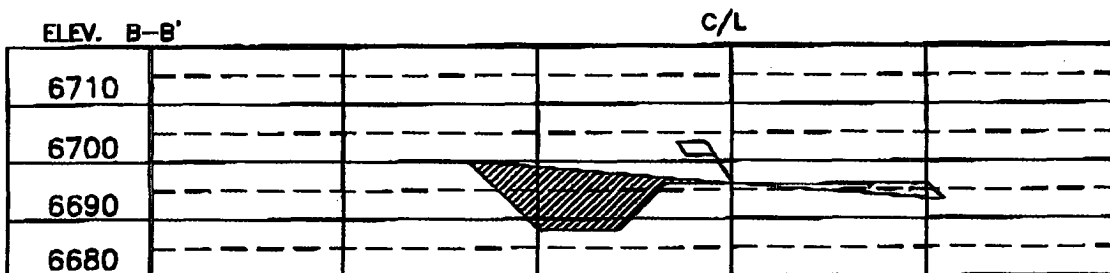
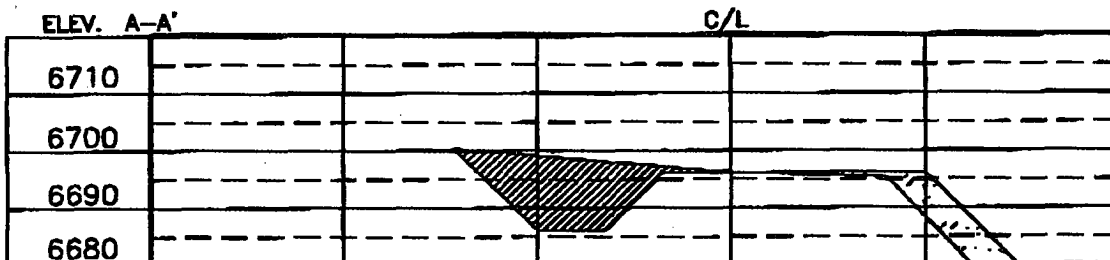
APPROVED BY [Signature] TITLE DEPUTY OIL & GAS INSPECTOR, DIST. 3 DATE OCT 13 2005
Conditions of approval, if any:

BURLINGTON RESOURCES OIL & GAS COMPANY LP
SAN JUAN 29-7 UNIT 61M, 1225 FSL 1400 FWL
SECTION 34, T-29-N, R-7-W, N.M.P.M., RIO ARriba COUNTY, NEW MEXICO
GROUND ELEVATION: 6696, DATE: JUNE 26, 2001

CONSTRUCTION ZONE



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.



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.

DRAWN BY: A.G.

ROW#: BR211

CADFILE: BR211CFB

DATE: 07/10/01

Daggett Enterprises, Inc.
 Surveying and Oil Field Services
 P. O. Box 15088 Farmington, NM 87401
 Phone (505) 328-1772 Fax (505) 328-6019

OPERATIONS PLAN

Well Name: San Juan 29-7 Unit #61M
Location: Surface - 1225' FSL, 1400' FWL, Section 34, T-29-N, R-6-W
 Bottom Hole - 1250' FSL, 50' FWL
 Rio Arriba County, New Mexico
 Surface -Latitude 36° 40.7106'N, Longitude 107° 33.7167'W
Formation: Blanco Mesa Verde/Basin Dakota
Elevation: 6696' GL

<u>Formation Tops:</u>	<u>TMD</u> <u>Top</u>	<u>TVD</u> <u>Top</u>	<u>TMD</u> <u>Bottom</u>	<u>Contents</u>
Surface	San Jose		2510'	
Ojo Alamo	2510'	2494'	2691'	aquifer
Kirtland	2691'	2671'	3178'	gas
Fruitland	3178'	3147'	3469'	
Pictured Cliffs	3469'	3432'	3595'	gas
Lewis	3595'	3555'	4087'	gas
Huerfanito Bentonite	4087'	4036'	4195'	gas
Chacra	4195'	4142'	5240'	gas
Massive Cliff House	5240'	5164'	5314'	
Menefee	5314'	5237'	5698'	
Point Lookout	5698'	5613'	6200'	gas
Mancos	6200'	6103'	6773'	gas
Gallup	6773'	6664'	7735'	gas
Greenhorn	7735'	7605'	7788'	gas
Graneros	7788'	7657'	7832'	gas
Two Wells	7832'	7700'	7926'	gas
Paguate	7926'	7792'	7955'	gas
Upper Cubero	7955'	7820'	7984'	
Lower Cubero	7984'	7848'	8052'	
Encinal	8052'	7914'		
TD	8052'	7916'		

Logging Program:

Cased Hole - CBL-GR-TD to surface

Mud Program:

<u>Interval (TMD)</u>	<u>Type</u>	<u>Weight</u>	<u>Vis.</u>	<u>Fluid Loss</u>
0- 500'	Spud	8.4-9.0	40-50	no control
500- 8052'	LSND, Non-dispersed	8.4-9.0	30-60	less than 8

Drilling:

Surface Hole:

Drill to surface casing point of 500' and set 9 5/8" casing.

Production Hole:

Mud drill to kick off point of 1509'. At this point the well will be directionally drilled by building 3.0 degrees per 100' with an azimuth of 271.4 degrees. The end of the build will be at a TVD of 1906', a TMD of 1909', hd of 42' and an angle of 12 degrees. This angle and azimuth will be held to a total depth of 7916' TVD and 8052' TMD.

Materials:

Casing program:

<u>Hole Size</u>	<u>Interval</u>	<u>Size</u>	<u>Weight</u>	<u>Vis.</u>
	<u>TMD</u>	<u>TVD</u>		
12 1/4"	500'	500'	9 5/8"	32.3# J-55
8 3/4"	6000'	6000'	4 1/2"	10.5# J-55
8 3/4"	8052'	7916'	4 1/2"	11.6# L-80

Tubing Program:

2 3/8" 0' 7916' 2 3/8" 4.7# J-55

Wellhead Equipment

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

Cementing:

8 5/8" surface casing conventionally drilled -
Cement with 220 sacks Type III cement with 0.25 pps Celloflake, 3% calcium chloride. (282 cu ft-200% excess, bring cement to 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.

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

4 1/2" production casing - Lead w/1211 sxs Premium Lite HS FM cement w/3% calcium chloride, 0.25 pps celloflake, 5 pps LCM-1, 0.4% fluid loss, 0.4% SMS. Tail w/90 sxs Type III cmt w/1% calcium chloride, 0.25 pps celloflake, 0.2% fluid loss (2704 cu ft, 50% excess to circulate to surface). If cement does not circulate to surface, a CBL or a temperature survey will be run to determine TOC.

4 1/2" production casing alternative slurry- stage collar @ 5624' TMD'. First stage: pump 330 sxs Premium Lite HS FM w/ 3% calcium chloride, 0.25 pps celloflake, 5 pps LCM-1, 0.4% fluid loss, 0.4% SMS. Tail with 90 sxs Type III cmt w/1% calcium chloride, 0.25 pps celloflake, 0.2% fluid loss. Second stage: pump 884 sxs Premium Lite w/3% calcium chloride, 0.25 pps celloflake, 5 pps LCM-1, 0.4% fluid loss, 0.4% SMS (2704 cu ft of slurry, 50% excess).

BOP and Tests:

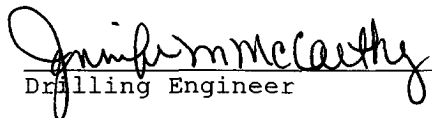
Surface to production TD - 11", 2000 psi double gate BOP stack (Reference Figure #1).
Prior to drilling out surface casing, test rams and casing to 600 psi for 30 minutes.

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 rig floor.

Additional Information:

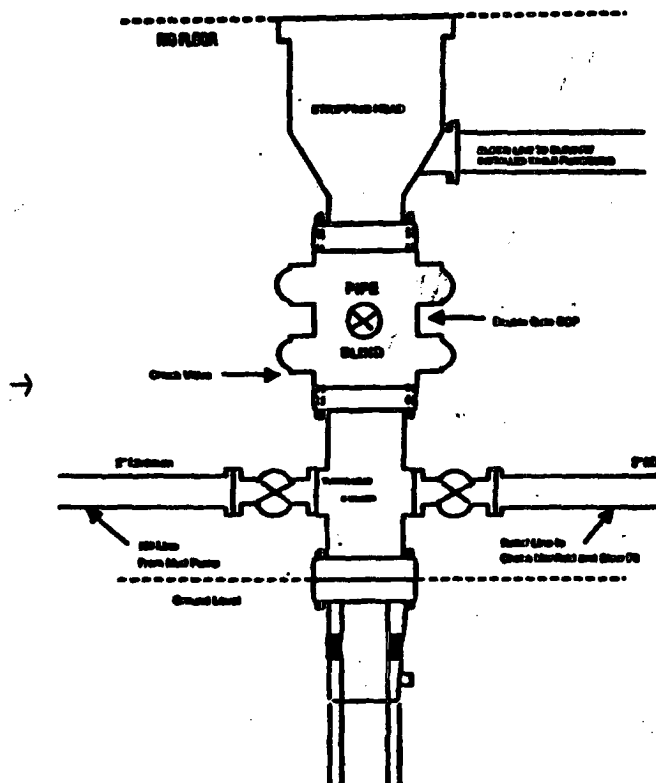
- This gas is dedicated
- The west half of section 34 is dedicated to the Mesaverde and Dakota of this well.
- New casing will be utilized.
- Pipe movement (reciprocation) will be done if hole conditions permit.
- No abnormal pressure zones are expected.


Drilling Engineer

5-25-05
Date

BURLINGTON RESOURCES

Completion/Workover Rig BOP Configuration 2,000 psi System

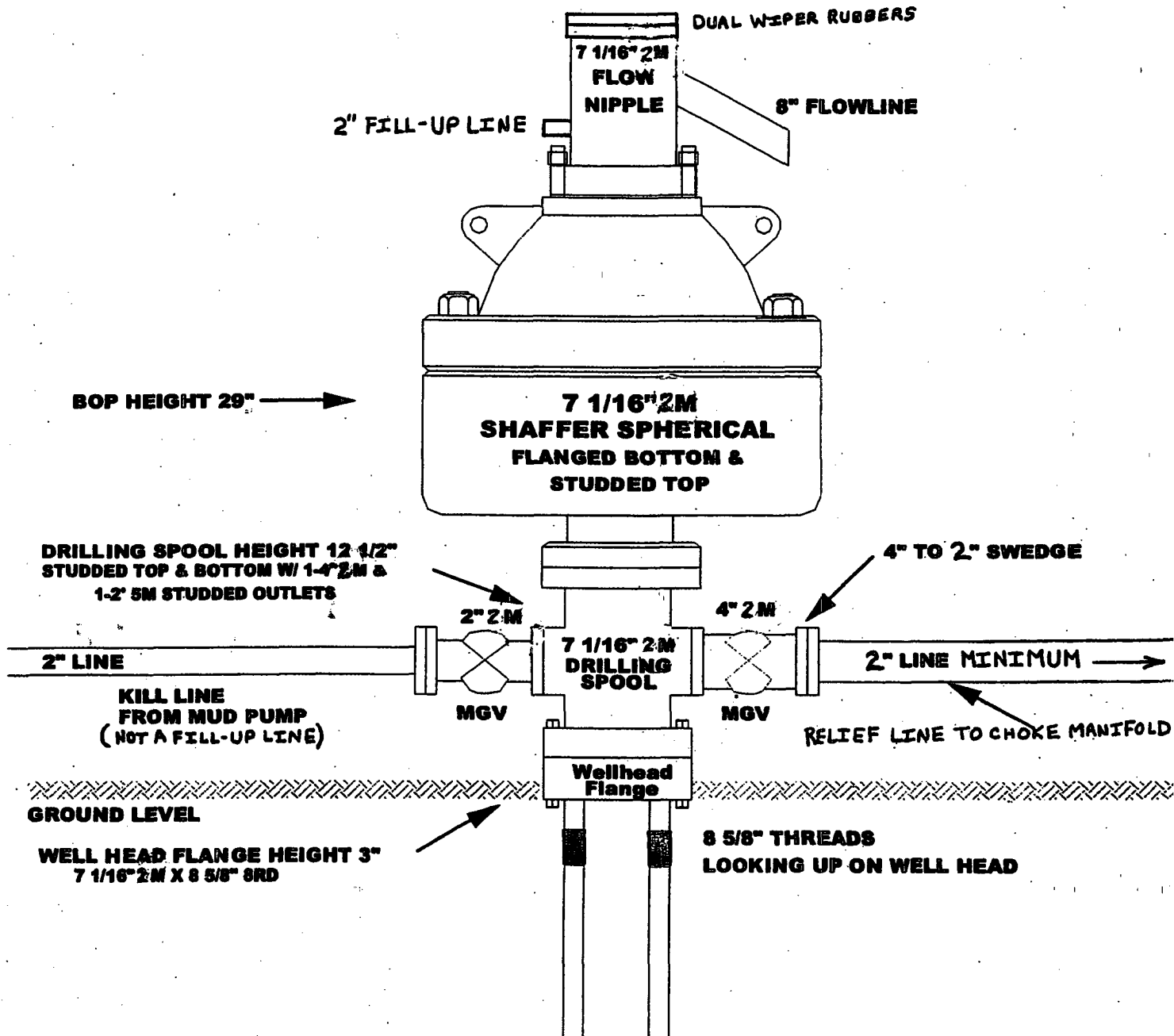


Minimum BOP Installation for all Completion/Workover Operations. 7-1/16" bore, 2000 psi minimum working pressure double gate BOP to be equipped with blind and pipe rams. A stripping head to be installed on the top of the BOP. All BOP equipment is 2000 psi working pressure or greater excluding 500 psi stripping head.

Figure #2

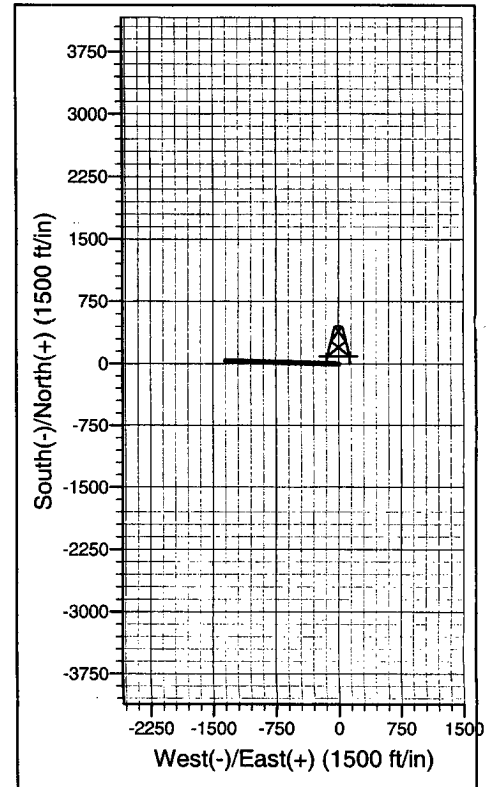
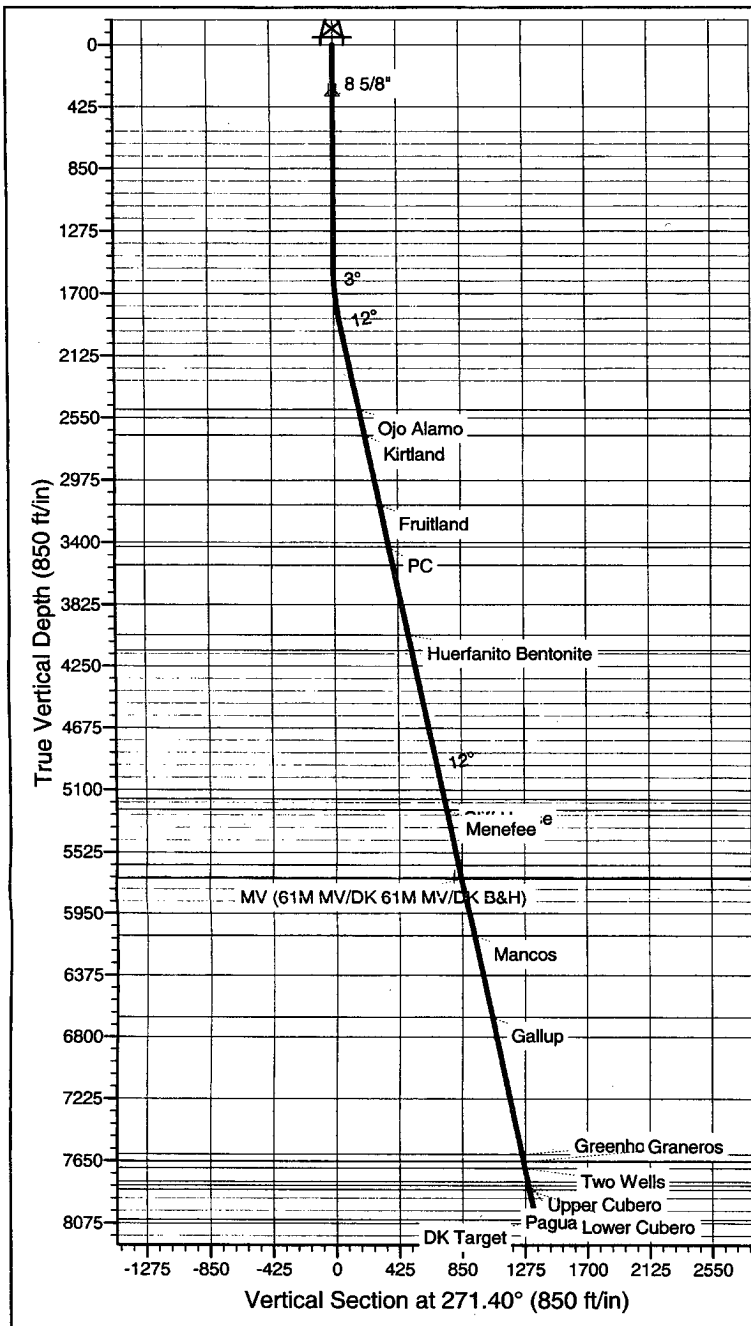
Drilling Rig

2000 psi BOP System



Burlington Resources

Project: 29-7
61M Site
61M MV/DK
61M MV/DK
Plan: B&H



FORMATION TOP DETAILS

No.	TVDPath	MDPath	Formation
1	5705.0	5792.8	MV
2	2494.0	2510.0	Ojo Alamo
3	2671.0	2691.0	Kirtland
4	3147.0	3177.6	Fruitland
5	3432.0	3469.0	PC
6	3555.0	3594.7	Lewis
7	4036.0	4086.5	Huerfanito Bentonite
8	4142.0	4194.9	Chacra
9	5164.0	5239.7	Cliff House
10	5237.0	5314.3	Menefee
11	5613.0	5698.7	Point Lookout
12	6103.0	6199.7	Mancos
13	6664.0	6773.2	Gallup
14	7605.0	7735.2	Greenhorn
15	7657.0	7788.4	Graneros
16	7700.0	7832.3	Two Wells
17	7792.0	7926.4	Paguete
18	7820.0	7955.0	Upper Cubero
19	7848.0	7983.7	Lower Cubero
20			Encinal