

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work Deepen	5. Lease Number SF-080675 070 FARMINGTON, NM Unit Reporting Number	
1b. Type of Well GAS	6. If Indian, All. or Tribe	
2. Operator BURLINGTON RESOURCES Oil & Gas Company	7. Unit Agreement Name San Juan 27-4 Unit	
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	8. Farm or Lease Name San Juan 27-4 Unit 9. Well Number #133 A	
4. Location of Well 1590' FNL, 870' FWL Latitude 36°32.82'N, Longitude 107°14.62'W	10. Field, Pool, Wildcat Blanco Mesaverde/Basin Dakota 11. Sec., Twn, Rge, Mer. (NMPM) Sec. 27, T27N, R04W API # 30-039-22114 23711	
14. Distance in Miles from Nearest Town 15 MILES	12. County Rio Arriba	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line		
16. Acres in Lease 320	17. Acres Assigned to Well 320 W/2 - MV/DK	
18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 1000'		
19. Proposed Depth 8472'	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 7192' GR	22. Approx. Date Work will Start	
23. Proposed Casing and Cementing Program See Operations Plan attached		
24. Authorized by: <u><i>Regulatory Associate</i></u> Regulatory Associate	4/13/05 Date	

PERMIT NO.

APPROVAL DATE

APPROVED BY *D. Martinez*

TITLE

AFM

DATE

5-23-05

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.

NMOCD

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 S. St Francis Dr.

Santa Fe, NM 87505

Form C-102

Permit 9273

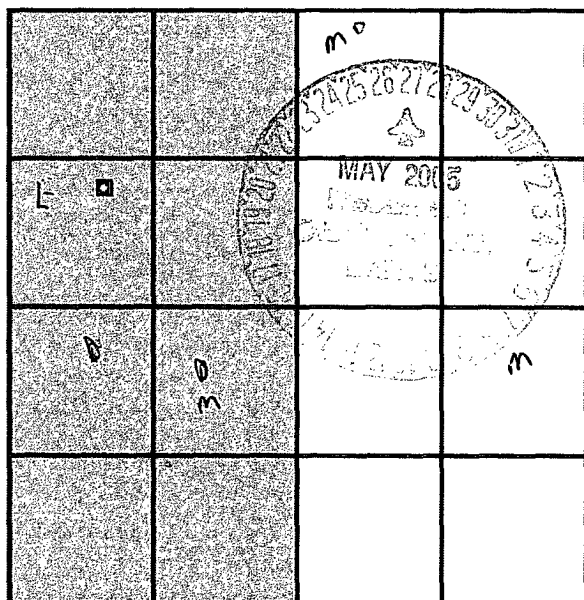
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OTD FARMINGTON NM

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Name BASIN DAKOTA (PRORATED GAS)	Pool Code 71599
Property Code 7452	Property Name SAN JUAN 27 4 UNIT	Well No. 133A
OGRID No. 14538	Operator Name BURLINGTON RESOURCES OIL & GAS CO	Elevation 7192

Surface And Bottom Hole Location

UL or Lot E	Section 27	Township 27N	Range 04W	Lot Idn	Feet From 1590	N/S Line N	Feet From 870	E/W Line W	County Rio Arriba
Dedicated Acres 320	Joint or Infill	Consolidation Code	Order No.						



OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Electronically Signed By: *Paulina Thompson*

Title: *Regulatory Associate*

Date: *4/13/05*

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.

Surveyed By: Fred Kerr Jr.

Date of Survey: 10/01/1984

Certificate Number: 3950

OPERATIONS PLAN FOR SAN JUAN 27-4 UNIT #133A

Well: San Juan 27-4 Unit #133A

Location: T-27-N, R-4-W, Sect. 27, Unit E; 1590' FNL, 870' FWL
Rio Arriba County, NM
Latitude 36° 32.82' Longitude 107° 14.62'

Formation: Blanco Mesaverde and Basin Dakota

<u>Formation Tops:</u>	<u>Top</u>	<u>Bottom</u>	<u>Contents</u>
Surface	San Jose		----
Ojo Alamo	3601'	3699'	aquifer
Kirtland	3699'	3919'	gas
Fruitland	3919'	4059'	gas
Pictured Cliffs	4059'	4151'	gas
Lewis	4151'	4551'	gas
Huerfano Bentonite	4551'	5014'	gas
Chacra	5014'	5629'	gas
Upper Cliff House	5629'	5836'	gas
Massive Cliff House	5836'	5876'	gas
Menefee	5876'	6201'	gas
Massive Point Lookout	6201'	6729'	gas
Mancos	6729'	7359'	gas
Gallup	7359'	8158'	gas
Greenhorn	8156'	8227'	gas
Graneros	8227'	8252'	gas
Two Wells	8252'	8378'	gas
Cubero	8378'	8422'	gas
Lower Cubero	8422'	8457'	gas
Oak Canyon	8457'		gas
Total Depth	8472'		

Logging program:

Cased hole - CBL-CCL-GR - TD to 6600'

Mud Program:

<u>Interval</u>	<u>Type</u>	<u>Weight</u>	<u>Vis.</u>	<u>Fluid Loss</u>
6674' - 8472'	Air/Nitrogen	n/a	n/a	n/a

Casing Program:

<u>Hole Size</u>	<u>Depth Interval</u>	<u>Csg.Size</u>	<u>Wt.</u>	<u>Grade</u>
3-7/8"	~6650' - 8472'	3-1/2" Flush	9.3#/'	L-80

Tubing Program:

<u>Logging Program:</u>	<u>Tbg.Size</u>	<u>Wt.</u>	<u>Grade</u>
0' – total depth	2-1/16"	3.25#	J-55

Operations:

It is intended to deepen the subject well to the Dakota formation by the following procedure:

1. MIRU completion rig. TOOH with tubing.
2. Set retrievable bridge plug at +/- 5690'.
3. Pressure test casing to 1000 psi for 15 minutes. TOOH with bridge plug.
4. Lay in acid soluble cement across entire Mesaverde interval. WOC.
5. Drill out cement. Test casing to 500 psi for 15 minutes. Repeat cement work until pressure test holds.
6. Drill out shoe. Drill Dakota formation to approximately 8472' with mud logger to call final total depth. TOOH.
7. TIH with 3-1/2" flush joint pipe and set at total depth.
8. Cement with 26 sxs of type III cement (1.39 yield, 14.5 ppg). WOC. Run CBL. TOC @ 7052'.
9. Perforate and fracture stimulate the Dakota formation. Flow back Dakota.
10. Set composite plug 50' above top Dakota perforation.
11. Chemical cut 3-1/2" casing at +/- 6650'.
12. Acidize Mesaverde interval to restore production.

13. Drill out composite plug above the Dakota. Clean out to PBTD.
14. Land 2-1/16" IJ tubing.
15. RDMO rig. Return well to production as a commingled MV/DK producer.

BOP Specifications, Wellhead and Tests:

Surface to Total Depth:

2" nominal, 2000 psi minimum choke manifold (Reference Figure #3).

Completion Operations:

7 1/16" 2000 psi double gate BOP stack (Reference Figure #4). After nipple-up prior to completion, pipe rams, casing and liner top will be tested to 2000 psi for 15 minutes.

Wellhead:

9 5/8" x 7" x 4 1/2" x 2 1/16" x 2000 psi tree assembly.

General Information:

- Pipe rams will be actuated once each day and blind rams will be actuated once each trip to test proper functioning.
- An upper kelly cock valve with handle available and drill string valves to fit each drill string will be available on the rig floors at all times.
- All BOP tests and drills will be recorded in daily drilling reports.
- Blind and pipe rams will be equipped with hand wheels.

Cementing:

3-1/2" Production Liner

Cement to cover minimum of 1200' above the Dakota formation. Minimum TOC @ 7052'. 26 sxs type III cement (1.39 yield, 14.5 ppg). WOC a minimum of 18 hrs prior to completing.

Special Drilling Operations (Gas/Mist Drilling):

The following equipment will be operational while gas/mist drilling:

- An anchored blooie line will be utilized to discharge all cuttings and circulating medium to the blow pit a minimum of 100' from the wellhead.
- Compressors will be located a minimum of 100' from the wellhead in the opposite direction from the blooie line.
- Engines will have spark arresters or water-cooled exhaust.
- Deduster equipment will be utilized.
- The rotating head will be properly lubricated and maintained.
- A float valve will be utilized above the bit.
- Mud circulating equipment, water, and mud materials will be sufficient to maintain control of the well.

Additional Information:

- The Mesaverde and/or Dakota formations will be completed and commingled if both formations are completed.
- No abnormal temperatures or hazards are anticipated.
- Anticipated pore pressures are as follows:
Dakota 1000 psi

Angela Ibara
Sr. Staff Engineer

4/25/05
Date

San Juan 27-4 Unit #133A

1590' FNL , 870' FWL

Unit E, Section 27, T27N, R04W

Rio Arriba County, NM

LAT: 36 deg 32.82 min

LONG: 107 deg 14.62 min

GL = 7,192'

KB= 7,204'

Current Wellbore Diagram

Surface Casing:

9-5/8" 32.3# H-40
Set @ 227'
TOC @ circ to surf

Intermediate Casing:

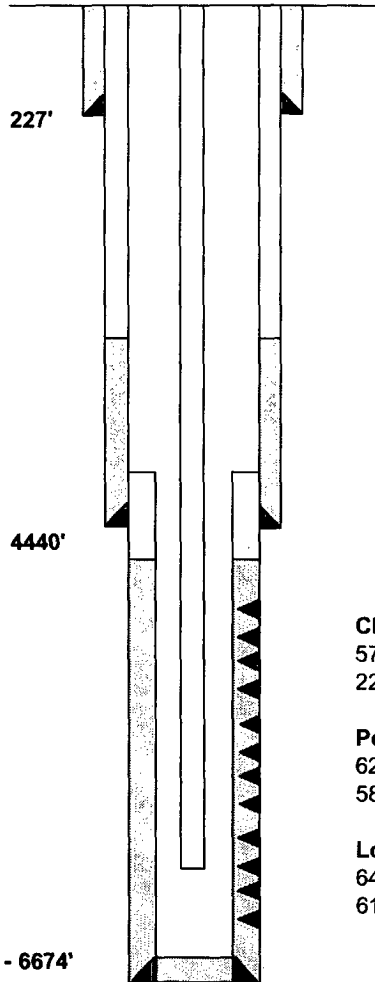
7" 23#/20# N-80/K-55
Set @ 4,440' 189 sxs
TOC @ 3425' TS sqz

Tubing:

2-3/8" 4.7# J-55
Set @ 6622
SN @ 6591

Production Liner:

4-1/2" 11.6#/10.5# K-55
Set @ 4278' - 6674'
TOC @ 5190' CBL



Cliff House

5740' - 5870'

22,000# sand, 44,050 gal slickwater

Point Lookout

6209' - 6380'

58,500# sand, 32,955 gal 30# linear gel

Lower Point Lookout

6440' - 6632'

61,000# sand, 121,800 gal slickwater

PBTD= 6,660'

TD= 6,675'

LPLO: 6440', 54', 76', 96', 6521', 41', 48', 63', 87', 96', 6604', 24', 32'

PLO: 6209', 21', 26', 31', 36', 45', 65', 69', 80', 91', 6309', 14', 28', 45', 50', 66', 80'

CH: 5740', 51', 63', 67', 5801', 11', 26', 48', 65', 70'

ARI 04/25/05

San Juan 27-4 Unit #133A

1590' FNL , 870' FWL
Unit E, Section 27, T27N, R04W
Rio Arriba County, NM

LAT: 36 deg 32.82 min

LONG: 107 deg 14.62 min

GL = 7,192'

KB= 7,204'

Proposed Wellbore Diagram

Surface Casing:

9-5/8" 32.3# H-40
Set @ 227'
TOC @ circ to surf

Intermediate Casing:

7" 23#/20# N-80/K-55
Set @ 4,440' 189 sxs
TOC @ 3425' TS sqz

Tubing:

2-1/16" 3.25 J-55 IJ
Set @ TBD
SN @ TBD

Production Liner:

4-1/2" 11.6#/10.5# K-55
Set @ 4278' - 6674'
TOC @ 5190' CBL

Proposed Production Liner:

3-1/2" FLS 0 0
Set @ 6650'-8472'
TOC @ 7,052'

Ojo Alamo 3,601'
Kirtland 3,699'
Fruitland 3,919'
Pictured Cliffs 4,059'
Heur Bent. 4,551'
Chacra 5,014'
Cliffhouse 5,836'
Menefee 5,876'
Point Lookout 6,201'
Mancos 6,729'
Gallup 7,359'
Greenhorn 8,156'
Graneros 8,227'
Two Wells 8,252'

4440'

Cliff House

5740' - 5870'

22,000# sand, 44,050 gal slickwater

Point Lookout

6209' - 6380'

58,500# sand, 32,955 gal 30# linear gel

Lower Point Lookout

6440' - 6632'

61,000# sand, 121,800 gal slickwater

4278' - 6674'

Dakota

TBD

40,000# TLC, slickwater

6650'-8472'

PBTD= 8,470'

TD= 8,472'

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04/25/05

Deepening Project

BURLINGTON RESOURCES

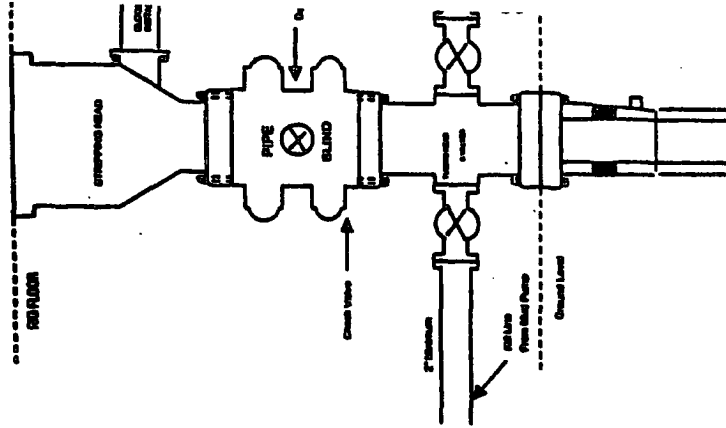
Completion/Workover Rig
BOP Configuration
2,000 psi System

BURLINGTON RESOURCES

Drilling Rig
Choke Manifold Configuration
2000 psi System

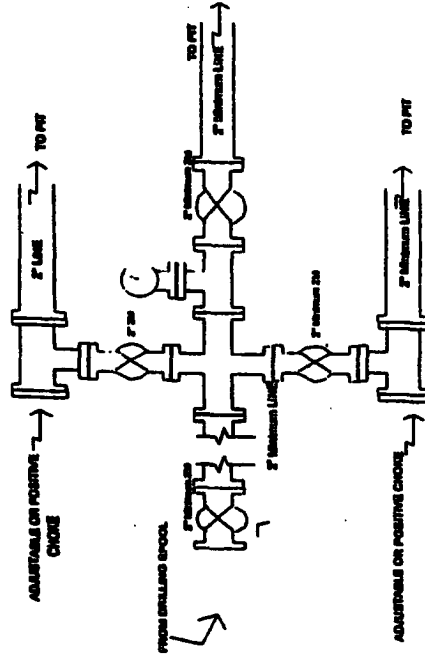
Burlington Resources

Drilling Rig
2000 psi System



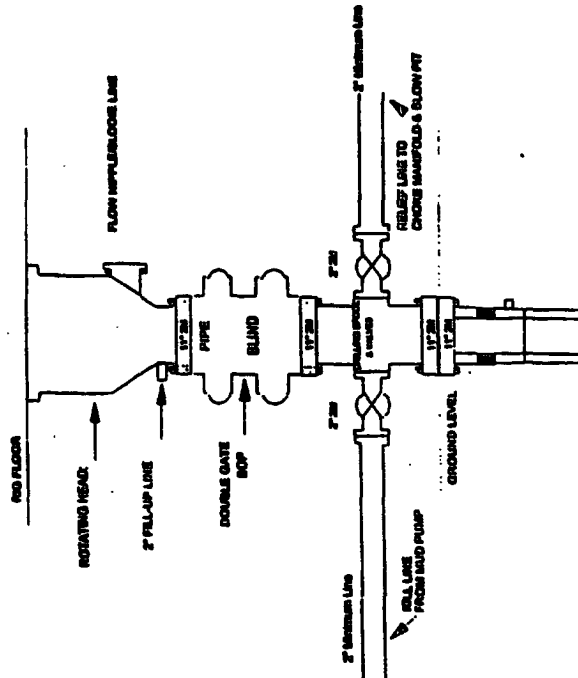
Minimum BOP Installation for all Completions/Workover Rig Operations. 7-1/16" bore, 2000 psi minimum pressure double gate BOP to be equipped with blind flange and pipe rams. A 500 psi rotating head to be installed on top of the BOP. All BOP equipment to 2000 psi pressure or greater excluding 500 psi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

Figure #1



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

Figure #3



BOP Installation from Surface Casing Point to Total Depth. 11" Bore 10" Neck, 2000 psi working pressure double gate BOP to be equipped with blind flange and pipe rams. A 500 psi rotating head on top of the BOP. All BOP equipment to 2,000 psi working pressure

Figure #1