

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

2001 OCT 15 PM 3:14

1a. Type of Work DEEPEN	5. Lease Number NM-012710 Unit Reporting Number 8910016500	
1b. Type of Well GAS	6. If Indian, All. or Tribe	
2. Operator BURLINGTON RESOURCES Oil & Gas Company	7. Unit Agreement Name San Juan 30-6 Unit	
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	8. Farm or Lease Name San Juan 30-6 Unit 9. Well Number 64	
4. Location of Well 990' FNL, 1090' FEL	10. Field, Pool, Wildcat Blanco MV/Basin DK 11. Sec., Twn, Rge, Mer. (NMPM) A Sec. 11, T-30-N, R-7-W API # 30-039-07896	
14. Distance in Miles from Nearest Town	12. County Rio Arriba	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 990'	17. Acres Assigned to Well 320 E/2	
16. Acres in Lease	18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease	
19. Proposed Depth 8250'	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 6749' GR	22. Approx. Date Work will Start	
23. Proposed Casing and Cementing Program See Operations Plan attached	24. Authorized by: <u><i>Regan Cole</i></u> Regulatory/Compliance Supervisor	
		Date <u>10-11-01</u>

PERMIT NO. _____ APPROVAL DATE 10/22/01
APPROVED BY _____ TITLE _____ DATE 10/22/01

Archaeological Report to be submitted

Threatened and Endangered Species Report to be submitted

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.

District I
PO Box 1980, Hobbs, 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

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

Form C-102
Revised February 21, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039-07896		² Pool Code 72319/71599		³ Pool Name Blanco Mesaverde/Basin Dakota	
⁴ Property Code 7469		⁵ Property Name San Juan 30-6 Unit			⁶ Well Number 64
⁷ OGRID No. 14538		⁸ Operator Name Burlington Resources Oil & Gas Company, LP			⁹ Elevation 6749' GR

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
A	11	30N	7W		990'	North	1090'	East	RA

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

¹² Dedicated Acres MV-E/320 DK-E/320	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.

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>Original plat from C. O. Walker 3-21-51</p> <p>2001 OCT 15 PM 3:15</p>	<p>990'</p> <p>1090'</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>Peggy Cole</i></p> <p>Signature _____</p> <p>Peggy Cole</p> <p>Printed Name _____</p> <p>Regulatory Supervisor</p> <p>Title _____</p> <p>10-11-01</p> <p>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 _____</p> <p>Signature and Seal of Professional Surveyer: _____</p> <p>Certificate Number _____</p>			

OPERATIONS PLAN

Well Name: San Juan 30-6 Unit #64
Location: 990' FNL, 1090' FEL, Sec. 11, T-30-N, R-07-W
Rio Arriba County, NM
Latitude 36° 49.8935, Longitude 107° 32.0526
Formation: Blanco Mesa Verde/Basin Dakota
Elevation: 6,749' GR

<u>Formation Tops:</u>	<u>Top</u>	<u>Bottom</u>	<u>Contents</u>
Surface	San Jose		
Pictured Cliffs	3669'		gas
Massive Cliff House	5559'	5640'	gas
Menefee	5640'	5904'	gas
Massive Point Lookout	5904'	6394'	gas
Mancos	6394'	6679'	gas
Gallup	6679'	7931'	gas
Greenhorn	7931'	7981'	gas
Graneros	7981'	8118'	gas
Dakota	8118'		gas
TD	8250'		

Logging Program: Cased hole - GR/CBL - TD to surface

Mud Program:

<u>Interval</u>	<u>Type</u>	<u>Weight</u>	<u>Vis.</u>	<u>Fluid Loss</u>
6399-8250'	Air/N2	n/a	n/a	n/a

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

<u>Hole Size</u>	<u>Depth Interval</u>	<u>Csg. Size</u>	<u>Wt.</u>	<u>Grade</u>
3-7/8"	6399' - 8250'	2-7/8"	6.5#	J-55

Tubing Program: 0' - 8250' 1-1/4" 1.9# IJ

Operations:

It is intended to deepen the subject well to the Dakota formation by pulling existing rods and tubing. Drill to a new total depth of 8,250'. A 2 7/8" 6.5# J-55 buttress joint casing string will be run in the well from surface to 6,399'. A 2 7/8" 6.5# J-55 flush joint casing string will be run in the well from 6399' to 8250' and will be cemented with 43 sacks of Class G cement. The Dakota formation will then be selectively perforated and fracture stimulated. A 1-1/4" tubing string will be run in the well and the well will be returned to production as a Mesa Verde/Dakota commingle completion. A C-102 plat is attached.

The 2-7/8" casing will be cut and recovered at 6315', 87' below the Point Lookout perforations and 84' above the intermediate casing shoe. Top of cement will be at 7,064', the midpoint in the Mancos formation between the Point Lookout and Gallup formations. 40% excess will be included. We are asking for a variance to the 100' overlap requirement to prevent overlapping current Mesa Verde perforations. The cement top is calculated to isolate the Gallup and Dakota formations yet not overlap existing Mesa Verde perforations.

Top of Cement must be at least 150' above the top of Gallup, or Gallup equivalent, strata as shown by CBL

BOP Specifications, Wellhead and Tests:**Drilling and Completion Operations -**

7 1/16" 3000 psi double gate BOP stack (Reference Figure #3).
After nipple-up prior to drilling out, pipe rams, blind rams, well head, and manifold will be tested to 2000 psi for 15 minutes.

Wellhead -

9 5/8" x 7" x 2 3/8" x 3000 psi tree assembly.

General -

- 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.
- BOP pit level drill will be conducted weekly for each drilling crew.
- All BOP tests and drills will be recorded in daily drilling reports.
- Blind and pipe rams will be equipped with extension hand wheels.

Special Drilling Operations (Gas/Mist Drilling):

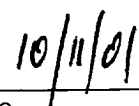
The following equipment will be operational while gas/mist drilling:

- 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.
- The blooie line will be equipped with an automatic igniter or pilot light.
- 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:

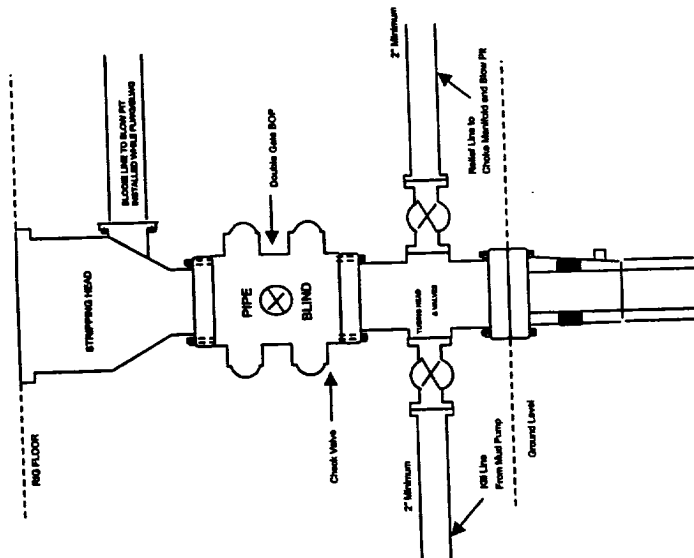
- The Dakota and Mesa Verde formations will be completed and commingled.
- No abnormal temperatures or hazards are anticipated.
- Anticipated pore pressures are as follows:
Dakota 2500 psi
- The east half of Section 11 is dedicated to the Mesaverde and the Dakota in this well.


Drilling Engineer


Date

BURLINGTON RESOURCES

Completion/Workover Rig
BOP Configuration
3,000 psi System

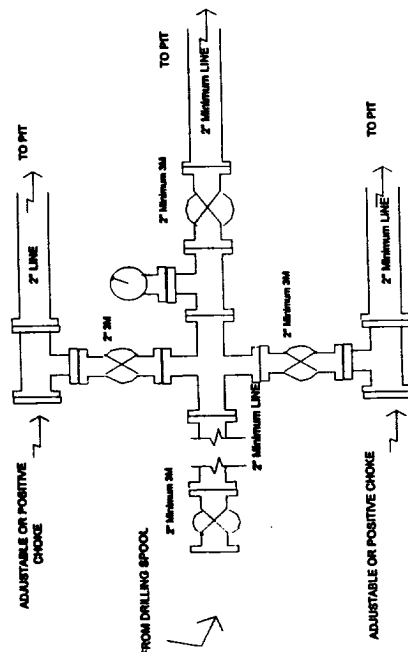


Minimum BOP installation for all Completion/Workover Operations. 7-1/16" bore, 3000 psi minimum working pressure double gate BOP to be equipped with blind and pipe rams. A stripping head to be installed on the top of the BOP. All BOP equipment is 3000 psi working pressure or greater excluding 500 psi stripping head.

Figure #3

BURLINGTON RESOURCES

Drilling Rig
Choke Manifold Configuration
3000 psi System

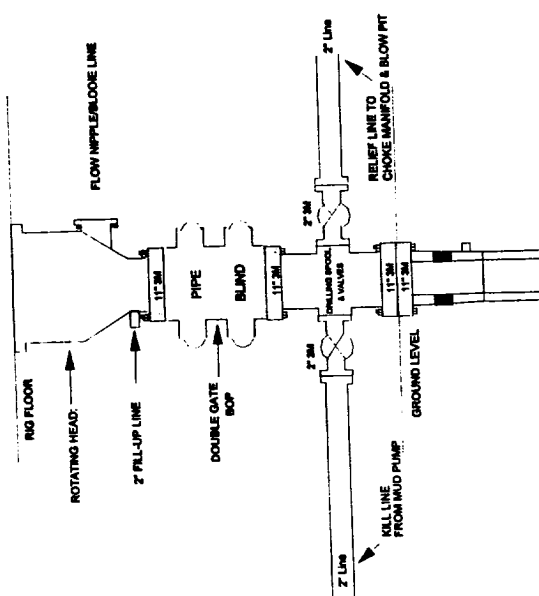


Choke manifold installation from Surface Casing Point to Total Depth. 3,000psi working pressure equipment with two chokes.

Figure #2

Burlington Resources

Drilling Rig
3000 psi System



BOP installation from Surface Casing Point to Total Depth. 11" Bore 10" Normal 3000 psi working pressure double gate BOP to be equipped with blind rams and pipe rams. A 500 psi rotating head on top of ram preventers. All BOP equipment is 3,000 psi working pressure.

Figure #1

**San Juan 30-6 Unit No 64
Unit A, Sec. 11, T30N, R07W
San Juan County, NM**

CURRENT

PROPOSED

9-5/8" 25.4#
Spiral Weld
Csg. Set at 170'
Cement to sfc.

TOC 7" csg @
3,430' by temp log

7" 23# J-55Csg.
Set at 5,475'

Open Hole

Sqz open hole w/ cmt
Then sidetrack (Fish in OH)

OH TD @ 6,100'

4-1/2", 10.5#, J55
Csg @ 6,399'

PBTD @ 6,385'
TD @ 6,399'

TOC @ 4,400' by CBL

MV Perfs
5,559'-5,766'
5,924'-6,228'

2-3/8" Tbg @ 6,212'

2-7/8" flush jt Csg.

OHTD at 8250'

1-14" IJ Tbg

7064 — TOC (proposed)

Drill to 8250'. Run 2-7/8"
flush jt csg & cmt.
Selectively perf & frac
Dakota. Commingle MV/DK