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

1a.	Type of Work	5. Lease Number
	DRILL —	SF-078215 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
3.	Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499	8. Farm or Lease Name Page 9. Well Number
	(505) 326-9700	#1B
4.	Location of Well 1795'FSL, 1980'FWL	10. Field, Pool, Wildcat  Blanco MV/Basin DK  11. Sec., Twn, Rge, Mer. (NMPM)
	Latitude 36 <sup>o</sup> 58.9, Longitude 107 <sup>o</sup> 55.5	/Sec.18, T-32-N, R-10-W API# 30-045- 30419
14.	Distance in Miles from Nearest Town 14.2 miles to inters. Of Hwy 550 & Hwy 173	12. County 13. State San Juan NM
15.	Distance from Proposed Location to Nearest Property or Lease Li	ne
16.	Acres in Lease	17. Acres Assigned to Well MV/DK: S/325 328./3
18.	Distance from Proposed Location to Nearest Well, Drlg, Compl, or	Applied for on this Lease
	2030' This action is subject to technical and	
19.	Proposed Depth procedural review pursuant to 43 CFR 3165.3 and appeal pursuant te 43 CFR 3185.4.	<b>20. Rotary or Cable Tools</b> Rotary
19. 21.	Proposed Depth procedural review pursuant to 43 CFR 3165.3	<del>_</del>
21.	Proposed Depth procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4.  Elevations (DF, FT, GR, Etc.)	Rotary  22. Approx. Date Work will Start  OBJUMES OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHE
21. 23. 24.	Proposed Depth 7920'— procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4.  Elevations (DF, FT, GR, Etc.) 6396'— GR  Proposed Casing and Cementing Program	Rotary  22. Approx. Date Work will Start
21. 23. 24.	Proposed Depth 7920' and appeal pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4.  Elevations (DF, FT, GR, Etc.) 6396'—GR  Proposed Casing and Cementing Program See Operations Plan attached  Authorized by:	PROTATY  22. Approx. Date Work will Start  DRILLIE'S OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHER "GENERAL REQUIREMENTS"  10-26-00  Date

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 | 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

OIL CONSERVATION DIVISION OF THE OF !

State Lease — 4 Copies Fee Lease — 3 Copies

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

DISTRICT W

P.O. Drower DD, Artesia, N.M. 88211-0719

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

30-045-30419	<sup>2</sup> Ppol Code 72319/71599 —	Pool Nor . Blanco Mesaverde/Bas	
<sup>4</sup> Property Code 18595	<sup>5</sup> Prop	erty Name AGE	* Well Number
70GRID No. 14538	-r-	rotor Name DIL AND GAS, INC.	Elevation 6396'_

<sup>10</sup> Surface Location

UL or lot no.	Section 18	Township 32-N	Range 10-W	Lot Idn	Feet from the 1795'	North/South line SOUTH	Feet from the 1980'	East/West line WEST	County SAN JUAN	
			J	<u> </u>		L — — — — — — — — — — — — — — — — — — —				

11 Bottom Hale Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	Eost/West line	County
<sup>2</sup> Dedicated Acres			loint or Infill	<u> </u>	<sup>14</sup> Consolidation Co	de	15 Order No.		
MV: S/320 DK: S/32	- 32	<u>\$</u> .13							

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

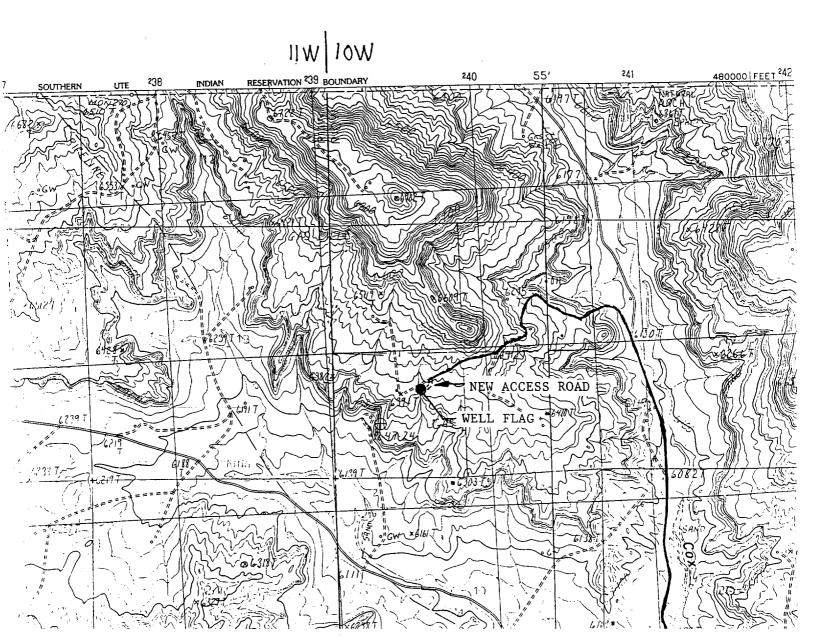
16				17 OPERATOR CERTIFICATION  I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief
LOT 8	LOT 7	LOT 6	LOT 5	
LOT 9	LOT 10	J.N.	LOT 12	Signature Peggy Cole
roi a	1	8		Printed Nome Regulatory Supervisor Title /0.26-00 Date
FD B.L.M. BC   1953	LOT 15	LOT 14	LOT 13	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. A. RUSCO
LOF	. 36'58.9'N 4G. 107'55.5'W	SF-078215		Date of Survey
185   185   105   107   17	LOT 18	LOT 19	LOT _20	Signature and Sad Signature of
Z	89°27'35" E 2641.6' (M)	FD B.L.M. BC 1969		Certificate Number

# BURLINGTON OIL AND GAS, INC. PAGE 1B

SEC. 18, T-32-N, R-10-W, N.M.P.M. SAN JUAN COUNTY, NEW MEXICO 1795' FSL, 1980' FWL

# APD MAP #1

400' NEW B.L.M. CONSTRUCTION 400' NE/SW SECTION 18, T32N, R10W



#### OPERATIONS PLAN

Well Name: Page #1B

Location: 1795'FSL, 1980'FWL, Sec 18, T-32-N, R-10-W

San Juan County, NM

Latitude 36° 58.9, Longitude 107° 55.5

Formation: Blanco Mesa Verde/Basin Dakota

Elevation: 6396' GL

Formation Tops:	Top	Bottom	Contents
Surface	San Jose	1258'	
Ojo Alamo	1258'	1308 <b>′</b>	aquifer
Kirtland	1308'	2528 <b>'</b>	gas
Fruitland	2528 <b>'</b>	3143'	gas
Pictured Cliffs	3143'	3258'	gas
Lewis	3258'	3847'	gas
Intermediate TD	3358'		
Mesa Verde	3847 <b>'</b>	4313 <b>'</b>	gas
Chacra	4313'	5006 <b>′</b>	gas
Massive Cliff House	5006'	5085'	gas
Menefee	5085 <b>'</b>	5368 <b>′</b>	gas
Massive Point Lookout	5368'	5783 <b>'</b>	gas
Mancos	5783 <b>′</b>	6808 <b>′</b>	gas_
Gallup	6808 <b>′</b>	7528 <b>′</b>	gas
Greenhorn	7528'	7568 <b>'</b>	gas
Graneros	7568'	7649'	gas
Dakota	7649'		gas
TD	7920'		-

### Logging Program:

Open hole - DIL/GR, Density Neutron Prosity, Bulk Density/Correction, Microlog, CMR - TD to surface. Cased hole - GR/CBL - TD to surface Cores - none

#### Mud Program:

Interval	Type	Weight	Vis.	Fluid Loss
0- 200'	Spud	8.4-9.0	40-50	no control
200- 3358'	LSND	8.4-9.0	30-60	no control
3358- 7920'	Air/N2	n/a	n/a	n/a

Pit levels will be visually monitored to detect gain or loss of fluid control.

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

Hole Size	Depth Interval	Csg.Size	Wt.	Grade
12 1/4"	0' - 200'	9 5/8"	32.3#	WC-50
8 3/4"	0' - 3358'	7"	20.0#	J-55
6 1/4"	0' - 7920 <b>&gt;</b>	4 1/2"	10.5#	K-55

#### Tubing Program:

0' - 7920' 2 3/8" 4.7# J-55

### BOP Specifications, Wellhead and Tests:

## Surface to Intermediate TD -

11" 2000 psi minimum double gate BOP stack (Reference Figure #1). After nipple-up prior to drilling out surface casing, rams and casing will be tested to 600 psi for 30 minutes.

#### Intermediate TD to Total Depth -

11" 2000 psi minimum double gate BOP stack (Reference Figure #1). After nipple-up prior to drilling out intermediate casing, rams and casing will be tested to 1500 psi for 30 minutes.

#### 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 #2). 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 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.

### Cementing:

9 5/8" surface casing - cement with 159 sx Class "B" cement with 1/4# flocele/sx and 3% calcium chloride (188 cu.ft. of slurry, 200% excess to circulate to surface). WOC 8 hrs. Test casing to 600 psi for 30 minutes.

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

# 7" intermediate casing -

Lead w/309 sx Class "G" w/3% sodium metasilicate, 2% calcium chloride, 10# gilsonite/sx and 1/2# flocele/sx. Tail w/90 sx 50/50 Class "G" Poz w/2% calcium chloride, 2% gel, 1/4 pps flocele, 5 pps gilsonite (1010 cu.ft. of slurry, 100% excess to circulate to surface.) WOC minimum of 8 hours before drilling out intermediate casing. If cement does not circulate to surface, a CBL will be run during completion operations to determine TOC. Test casing to 1500 psi for 30 minutes.

7" intermediate casing alternative two stage: Stage collar at 2428'. First stage: cement with 222 sx 50/50 Class "G" Poz w/2% calcium chloride, 2% gel, 1/4 pps flocele, 5 pps gilsonite. Second stage: 252 sx Class "G" w/3% sodium metasilicate, 2% calcium chloride, 10# gilsonite/sx and 1/2# flocele/sx (1010 cu.ft., 100% excess to circulate to surface).

Cement nose guide shoe on bottom with float collar spaced on top of shoe joint. Bowspring centralizers spaced every other joint off bottom, to the base of the Ojo Alamo at 1308'. Two turbolating centralizers at the base of the Ojo Alamo at 1308'. Bowspring centralizers spaced every fourth joint from the base of the Ojo Alamo to the base of the surface casing.

4 1/2" Production Casing -

Cement to cover minimum of 100' of  $4\ 1/2'' \times 7''$  overlap. Lead with  $475\ sx\ 50/50\ Class\ "G"$  Poz with  $5\%\ gel,\ 0.25\#$  flocele/sx, 5# gilsonite/sx, 0.1% retardant and 0.25% fluid loss additive (670 cu.ft.), 40% excess to cement  $4\ 1/2'' \times 7''$  overlap). WOC a minimum of  $18\ hrs$  prior to completing.

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

Cement float shoe on bottom with float collar spaced on top of shoe joint.

Note: To facilitate higher hydraulic stimulation completion work, no liner hanger will be used. In its place, a long string of 4 1/2" casing will be run and cemented with a minimum of 100' of cement overlap between the 4 1/2" x 7" casing strings. After completion of the well, a 4 1/2" retrievable bridge plug will be set below the top of cement in the 4 1/2" x 7" overlap. The 4 1/2" casing will then be backed off above the top of cement in the 4 1/2" x 7" overlap and laid down. The 4 1/2" bridge plug will then be retrieved and the production tubing will be run to produce the well.

 If hole conditions permit, an adequate water spacer will be pumped ahead of each cement job to prevent cement/ mud contamination or cement hydration.

### 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:

Fruitland Coal 300 psi Pictured Cliffs 600 psi Mesa Verde 700 psi Dakota 2500 psi

- Sufficient LCM will be added to the mud system to maintain well control, if lost circulation is encountered.
- The south half of Section 18 is dedicated to the Mesaverde and Dakota in this well.

this gas is dedicated

Drilling Engineer

<u>lo/26/2000</u>