UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

1a.	Type of Work DRILL	5. Lease Number NM-01772-A
	CYO = 5 1 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	Unit Reporting Number
1b.	Type of Well GAS NOV 2001	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 Reid
	(505) 326-9700	9. Well Number 16R
4.	Location of Well 1785'FSL, 845'FWL	10. Field, Pool, Wildcat Basin Fruitland Coal/ Aztec Pictured Cliffs
	Latitude 36 ^o 39.6, Longitude 107 ^o 50.1	11. Sec., Twn, Rge, Mer. (NMPM) L Sec.18, T-28-N, R-9-W API# 30-045- 3084-7
14.	Distance in Miles from Nearest Town 11.2 miles from int. Hwy 550 & Hwy 64, Bloomf:	12. County 13. State
15.	Distance from Proposed Location to Nearest Property or Lease 845'	Line
16.	Acres in Lease	17. Acres Assigned to Well
10.		FC: 282.28 W/2 PC: 141.29 SW/4
18.	Distance from Proposed Location to Nearest Well, Drlg, Compl,	FC: 282.28 W/2 PC: 141.29 SW/4
		FC: 282.28 W/2 PC: 141.29 SW/4
18.	Distance from Proposed Location to Nearest Well, Drlg, Compl, 873' Proposed Depth	FC: 282.28 W/2 PC: 141.29 SW/4 or Applied for on this Lease 20. Rotary or Cable Tools
18. 19.	Distance from Proposed Location to Nearest Well, Drlg, Compl, 873' Proposed Depth 2196' Elevations (DF, FT, GR, Etc.)	FC: 282.28 W/2 PC: 141.29 SW/4 or Applied for on this Lease 20. Rotary or Cable Tools Rotary 22. Approx. Date Work will Start DEBLEMO CREMATIONS AUTHORIZED ARE
18. 19. 21. 23.	Distance from Proposed Location to Nearest Well, Drig, Compl, 873' Proposed Depth 2196' Elevations (DF, FT, GR, Etc.) 5803' GR Proposed Casing and Cementing Program See Operations Plan attached	FC: 282.28 W/2 PC: 141.29 SW/4 or Applied for on this Lease 20. Rotary or Cable Tools Rotary 22. Approx. Date Work will Start DEBLEMO CREMATIONS AUTHORIZED ARE
18. 19. 21.	Distance from Proposed Location to Nearest Well, Drlg, Compl, 873' Proposed Depth 2196' Elevations (DF, FT, GR, Etc.) 5803' GR Proposed Casing and Cementing Program	FC: 282.28 W/2 PC: 141.29 SW/4 or Applied for on this Lease 20. Rotary or Cable Tools Rotary 22. Approx. Date Work will Start DEBLING CHERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHE

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.

This action is subject to technical and

procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 OFR \$165.4.



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

DISTRICT II P.O. Drawer DD, Ariesia, N.M. 88211-0719 2001 SEP 21 ::: 🗫

ppropriate District Office State Lease — 4 Copies Fee Lease — 3 Copies

DISTRICT III 1000 Rio Brazos Rd., Aziec, N.M. 87410 OIL CONSERVATION DIVISION
P.O. Box 2088 070
Santa Fe, NM 87504-2088

☐ AMENDED REPORT

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

FC 282.28 W/2

IFD 2 1/2"

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹API Number		² Pool Code	³ Pool Name				
30-045-	30847	71280/71629	Aztec Pictured Cliffs/Basin F	ruitland Coal			
⁴ Property Code			⁸ Property Name	* Well Number 16R			
18607			REID	* Elevation			
OGRID No.		DIEDLINGTON RE	*Operator Name SOURCES OIL & GAS INC.	5803			
14538			SOUNCES OIL & GAS INC.				

¹⁰ Surface Location

		<u> </u>	olnt or Infil		14 Consolidation C		15 Order No.		
UL or lot no.	Section	Township	Ronge	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
¹¹ Bottom Hole Location If Different From Surface									
L	18	28-N	9-W		1785	SOUTH	845	WEST	SAN JUAN
UL or lot no.	Section	Township	Range	Lot idn	Feet from the	North/South line	Feet from the	East/West fine	County

PC 141.29 SW/4

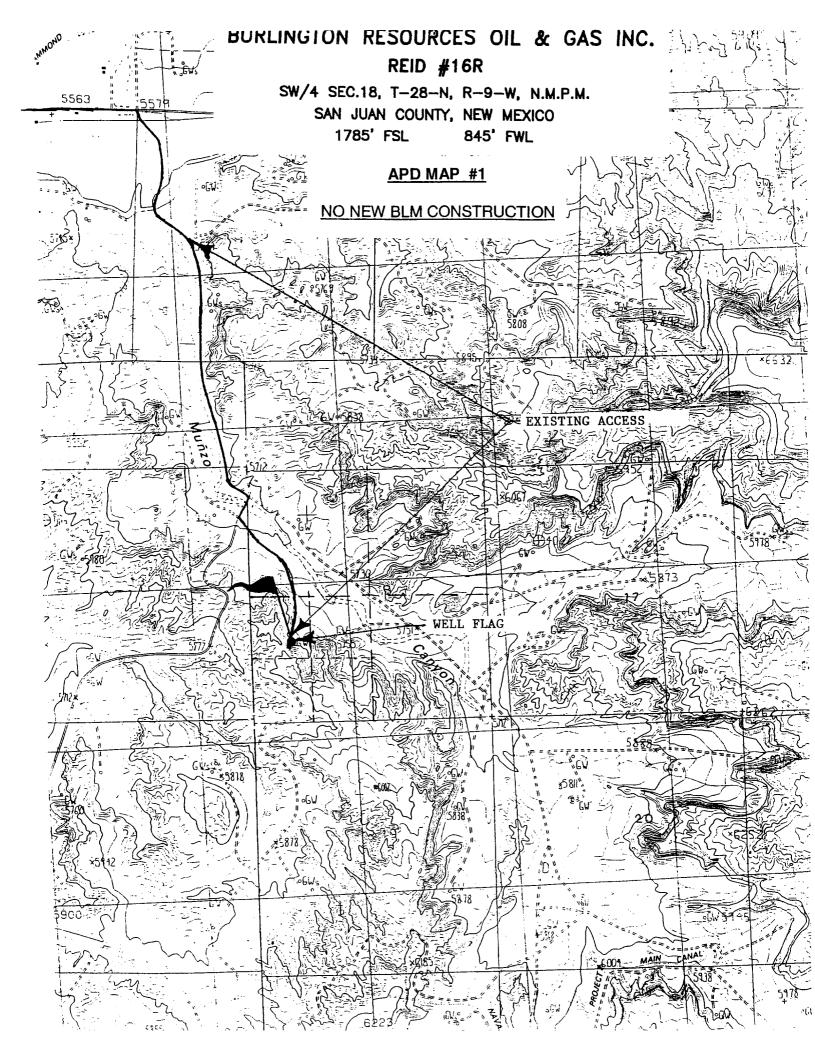
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED

N 89 23 21 E

OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION OPERATOR CERTIFICATION I hereby certify that the information contained herein is to the best of my knowledge and belief LOT 1 NM-01772-A an Cale NOV 200 <u>Peggy Cole</u> LOT 2 Regulatory Supervisor IQTR. CORNER FD 2 1/2" GLO 1916 B.C. 13.37 Date SURVEYOR CERTIFICATION LOT 3 852, 11 NM-01772-A LAT: 36'39.6' N. LONG:107'50.1' \ 845' 193' £87 Date of Survey 1785 LOT 4 8894 SEC. CORNER QTR. CORNER

FD 2 1/2"

Certificate



OPERATIONS PLAN

Well Name: Reid #16R

Location: 1785'FSL, 845'FWL Section 18, T-28-N, R-9-W

Latitude 36° 39.6'N, Longitude 107° 50.1'W

San Juan County, NM

Formation: Basin Fruitland Coal/Aztec Pictured Cliffs

Elevation: 5803'GL

Formation:	Top	Bottom	Contents
Surface	San Jose	936'	
Ojo Alamo	936'	1055'	aquifer
Kirtland	1055'	1512'	gas
Fruitland	1512'	1996'	gas
Pictured Cliffs	1996′	2196 '	gas
Total Depth	2196'		

Logging Program: Open hole: none

Cased hole: CBL/GR/CCL

Mudlog: none

Coring Program: none

Mud Program:

Interval	Туре	Weight	<u>Vis.</u>	Fluid Loss
0- 120'	Spud	8.4-9.0	40-50	no control
120-21961	Non-dispersed	8.4-9.5	30-60	no control

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

Hole Size	Depth Interval	Csg.Size	<u>Wt.</u>	<u>Grade</u>
9 7/8"	0' - 120'	7"	20.0#	
6 1/4"	0' - 2196 '	4 1/2"	10.5#	K-55
Tubing Program:	0' - 2196'	2 3/8"	4.7#	J-55

Float Equipment: 7" surface casing - saw tooth guide shoe. Centralizers will be run in accordance with Onshore Order #2.

4 ½" production casing - guide shoe and self-fill float collar. Three centralizers run every other joint above shoe. Seven centralizers run every 3rd joint to the base of the Ojo Alamo @ 1055'. Two turbolizing type centralizers - one below and one into the base of the Ojo Alamo @ 1055'. Standard centralizers thereafter every fourth joint up to the base of the surface pipe.

Wellhead Equipment: $7" \times 4 \frac{1}{2}" \times 2 \frac{3}{8}" \times 11" 2000$ psi screw on independent wellhead.

Cementing:

7" surface casing - cement with 27 sx Class A, B Portland Type I, II cement (32 cu.ft. of slurry, bring cement to surface through 3" line). WOC 8 hrs. Test casing to 600 psi for 30 minutes.

4 1/2" production casing - Lead w/288 sx Premium Lite cement w/3% calcium chloride, 1/4 pps flocele, 5 pps LCM-1, 0.4% FL-52, and 0.4% SMS. Tail w/90 sx Type III cement w/1% calcium chloride, 1/4 pps flocele, and 0.2% FL-52 (738 cu.ft. of slurry, 100% excess to circulate to surface.)

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

BOP and tests:

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

Completion - 7 1/16" 2000 psi (minimum) double gate BOP stack (Reference Figure #2). Prior to completion operations, test rams and casing to 2000 psi/15 min.

From surface to TD - choke manifold (Reference Figure #3).

Pipe rams will be actuated to 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.

BOP and tests (If a coiled tubing drilling (CTD) rig is utilized.):

Surface to TD: 7-1/16" 2000 psi (minimum) Torus annular BOP stack (Reference Figure #1b). Prior to drilling out surface casing, test annular BOP to 600psi/30 min.

Completion: 7-1/16" 2000 psi (minimum) double gate BOP stack (Reference Figure #2). Prior to completion operations, test blind rams and casing to 1500 psi for 30 minutes; all pipe rams and casing to 1500 psi for 30 minutes each. Same as in original APD operations plan.

From surface to TD: choke manifold (Reference Figure #3). Same as in original APD operations plan.

The annular BOP will be actuated to close on drill pipe (coiled tubing) at least once each day and to close on open hole once each trip to test proper functioning.

Additional information:

- * The Fruitland Coal & Pictured Cliffs formations will be completed and commingled.
- * Anticipated pore pressure for the Fruitland is 570 psi.
- * Anticipated pore pressure for the Pictured Cliffs is 500 psi.
- * This gas is dedicated.
- * The west half of Section 18 is dedicated to the Fruitland Coal and the southwest quarter of Section 18 is dedicated to the Pictured Cliffs.

Drilling Engineer

9/20/01 Date