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

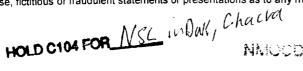
·	Type of Work	+ · · ·	5. Lease Number	
a.	DRILL		SF-078174-A Unit Reporting N	umber
b.	Type of Well GAS	garanti energi.	6. If Indian, All. or	[ribe
2.	Operator BURLINGTON RESOURCES Oil & Gas	Company	7. Unit Agreement	Name
3.	Address & Phone No. of Operator PO Box 4289, Farmington, N	IM 87499	8. Farm or Lease N Aztec Federal 9. Well Number	lame
	(505) 326-9700		1M	
4.	Location of Well 700'FNL, 2225'FEL		10. Field, Pool, Wil Otero Cha/Blar	dcat nco MV/Basin DM
	Latitude 36 ⁰ 48.2, Longitude	⊇ 107 [©] 56.4	11. Sec., Twn, Rge, Sec. 24, T-30- API# 30-045-	
14.	Distance in Miles from Nearest Town 5.6 Mls to Int. Hwy 550 & Ho	wy 173 in Aztec N	12. County M San Juan	13. State NM
15.	Distance from Proposed Location to N	earest Property or Leas	se Line	
16.	Acres in Lease Acres in Lease	antito 43 OFR 3165.3	17. Acres Assigne Cha-157.60, M	ed to Well V-314.36, DK-34
18.	Distance from Proposed Location to N	learest Well, Drlg, Com	ol, or Applied for on this	Lease
19.	1294 Proposed Depth 7309		20. Rotary or Cab l Rotary	e Tools
21.	Elevations (DF, FT, GR, Etc.) 6212' GR		22. Approx. Date	Work will Start
23.	Proposed Casing and Cementing Prog	hed parts	NO GREATIONS AUTHORIZED OT TO COMPLANCE WITH ATTA RAL REQUIREMENTS.	ARE AOHEA
24.	Authorized by: Regulatory/Comp	Call Diance Superviso	<u> </u>	1-8-62
PERI	MIT NO.	APPROVA		
	ROVED BYS/ David J. Mankiewicz			ATE JUN 25

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.



1625 N. French Dr., Hobbs, N.M. 88240

State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised August 15, 2000

DISTRICT II. 811 South First, Artesia, N.M. 88210

1000 Rie Brazos Rd., Aziec, N.M. 87410

OIL CONSERVATION DIVISION 2040 South Pacheco

Santa Fe, NM 87505

Submit to Appropriate District Office State Lease - 4 Copies

Fee Lease - 3 Copies

DISTRICT IV 2040 South Pacheco, Santa Fe, NM 87505 ☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number	² Pool Code	³ Pool Name	
30-045 3/109	82329/72319/71599	Otero Cha/Blanco MV/Basin DK	
⁴ Property Code		operty Name	⁶ Well Number
6818	AZTEC	1M -	
7 OGRID No.	* O _F	perator Name	* Elevation
14538	BURLINGTON RESOL	JRCES OIL & GAS INC.	6212

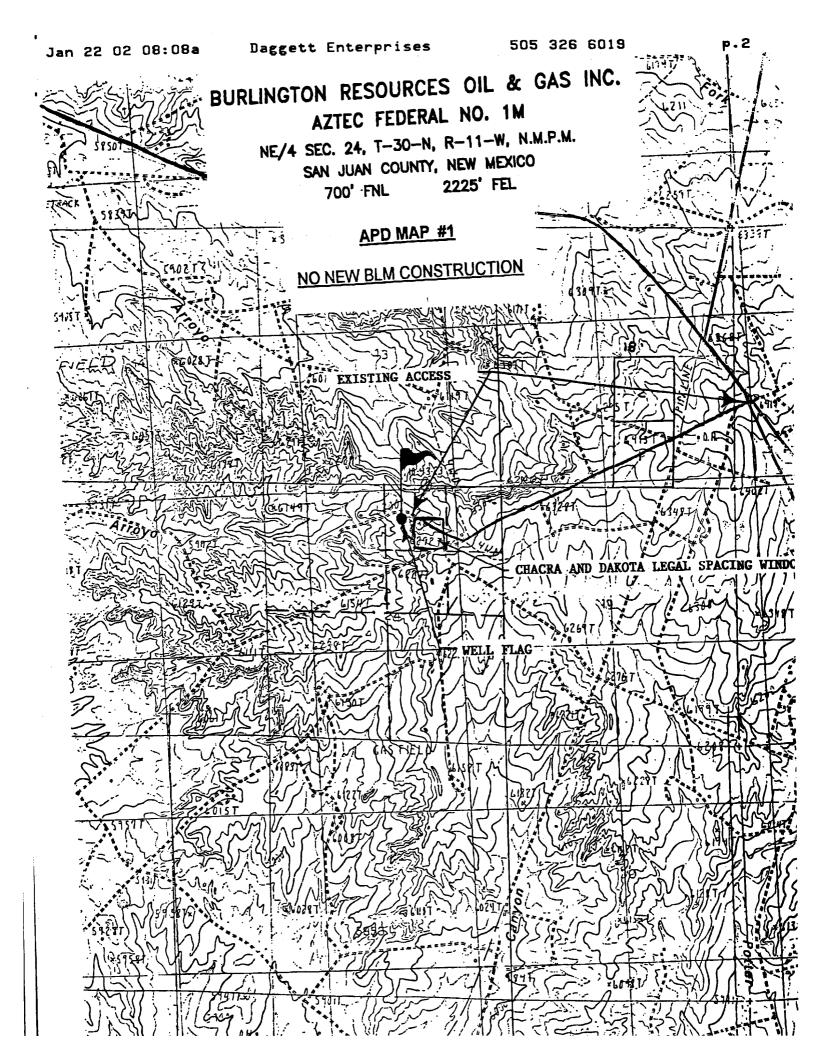
¹⁰ Surface Location

Ut, or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	ा वार्ष मध्या मध	LOSI/WOST ISTO	Coursey	1
В	24	30-N	11-W		700	NORTH	2225	EAST	SAN JUAN	J
			11 Botte	om Hole	Location	f Different Fr	om Surface			

			יווטם	2111 11016	Localion 1	Dilligion Tie	/III		
UL or lot no.	Section	Township	Range	Let Idn	Feet from the	North/South line	Feet from the	East/West line	County
12 Dedicated Acres			15 Joint or	lnfNi	¹⁴ Consolidation Co	ode	¹⁸ Order No.		
Cha-NE(15)	366	8							

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	FD 3 1/4" BLM 1969 BRASS CAP	700.	N 89°0 2599	6'18" W 9'(M)	FD 3 1/4" BLM 1967 BRASS CAP	OPERATOR CERTIFICATION I hereby certify that the information contained herein
H	LOT 4	LOT 3	374'	925'	22	25'	is true and complete to the best of my knowledge and
		LAT: 36'48.2'N. LONG:107'56.4'W.	919.	LOT 2 SF-07	Lon 8174~A	1.49"	Deggy Cale
	SF-07	3144	<u> </u>		_ 		Peggy Cole
			 			8	Printed Name
	LOT 5	LOT 6	 	LOT 7 SF-07	 	LOT 8	Regulatory Supervisor
		İ	j	ω, 2t-0)		1	2.8-02
۱	1	1	1			!	Date
	<u></u>	2	4 =				>
	•	- Carried States	II			FD 3 1/4" BLM 1987 BRASS CAP	18 SURVEYOR CERTIFICATION
			li	SF-07	781 <i>7</i> 1	Ì	I hereby certify that the well location shown on this plat
	LOT 12	LOT 11	H.	LOT 10		மா 9	was plotted from field network extral surveys made by
	is						and correct to the set of Management
I						1	19/30-03
			 -		===	====	Date from (8894)
		The second of	!				Dorle 173 day (8894)
			Į!	SF-	078198		The Component of the Co
	LOT 13	LOT 14		LOT 15		LOT 16	Jan Sand
			li				8894
ı			<u></u>		.		Certificate Number



OPERATIONS PLAN

Well Name: Aztec Federal 1M

Location: 700' FNL, 2225' FEL, Sec.24, T-30-N, R-11-W

San Juan County, NM

Latitude 36° 48.2'N, Longitude 107° 56.4'W

Formation: Otero Chacra/Blanco Mesaverde/Basin Dakota

Elevation: 6212'GL

Formation Tops:	<u>Top</u>	Bottom	Contents
Surface	San Jose	1349'	
Ojo Alamo	1349'	1474'	aquifer
Kirtland	1474'	2086'	gas
Fruitland	2086 '	2684'	
Pictured Cliffs	2684'	2839'	gas
Lewis	2839'	34291	gas
Mesaverde	3429 '	3689 '	gas
Chacra	3689 '	4334'	gas
Massive Cliff House	4334 ′	4499'	gas
Menefee	4499'	5004 ′	gas
Intermediate TD	4599'		
Massive Point Lookout	5004'	5379 ′	gas
Mancos Shale	5379 ′	6244'	gas
Gallup	6244′	6974 '	gas
Greenhorn	6974'	7024'	gas
Graneros	7024'	7079 '	gas
Dakota	7079 ′		gas
TD	1309 ن		

Logging Program:

Open hole logs - None Cased hole logs - Gr/CBL Cores - none

Mud Program:

uu	r r og r um.				
	Interval	Type	Weight	<u>Vis.</u>	Fluid Loss
	0- 200'	Spud	8.4-9.0	40-50	no control
	200- 4599'	LSND	8.4-9.0	30-60	no control
4	599- 7309'	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#	H-40
8 3/4"	0' - 4599'	7"	23 & 20.0#	J-55
6 1/4"	4499' - 7309'	4 1/2"	10.5#	J-55

Tubing Program:

0' - 7309' 2 3/8" 4.7# J-55

BOP Specifications, Wellhead and Tests:

Surface to Intermediate TD -

11" 3000 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" 3000 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, 3000 psi minimum choke manifold (Reference Figure #3).

Completion Operations -

7 1/16" 3000 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# celloflake/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/586 sx 50/50 Class G/TXI lightweight w/1.75% sodium metasilicate, 8# gilsonite/sx and 1/2# celloflake/sx, .2% Defoamer, .15% Retarder. Tail w/95 sx 50/50 Class "G" Poz, 2% gel, 1/4 pps celloflake, 5 pps gilsonite, 0.1% antifoam agent, .1% Dispersant, .1% Retarder (1397 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.

See attached alternative intermediate lead slurry.

7" intermediate casing alternative two stage: Stage collar at 1986'. First stage: cement with 625 sx 50/50 Class "G" Poz w/2% calcium chloride, 2% gel, 1/4 pps celloflake, 5 pps gilsonite, 0.1% antifoam agent. Second stage: 231 sx 50/50 Class G/TXI lightweight w/2.5% sodium metasilicate, 2% calcium chloride, 10# gilsonite/sx and 1/2# celloflake/sx (1397 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 1474'. Two turbolating centralizers at the base of the Ojo Alamo at 1474'. 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" x 7" overlap. Lead
 with 275 sx 50/50 Class "G" Poz with 5% gel, 0.25#
 celloflake/sx, 5# gilsonite/sx, 0.1% retardant and 0.25% fluid
 loss additive, 0.15% dispersant, 0.1% antifoam agent (396
 cu.ft.), 40% excess to cement 4 1/2" x 7" overlap). WOC a
 minimum of 18 hrs prior to completing.
- 4 1/2" production casing alternative: Lead w/81 sx 9.5 PPG
 Litecrete Blend w/0.11% dispersant, 0.5% fluid loss. Tail w/153
 sx Class G 50/50 poz w/5% gel, 0.25 pps celloflake, 5 pps
 gilsonite, 0.25% fluid loss, 0.15% dispersant, 0.1% retarder,
 0.1% antifoam (424 cu.ft., 50% excess to cement 4 ½" x 7"
 overlap).

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 float shoe.

- 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.