UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

a.	Type of Work	0.001 17.0 7 101 0 11.7	
	DRILL	11	5. Lease Number SF-080067A Unit Reporting Number
b.	Type of Well GAS		6. If Indian, All. or Tribe
2.	Operator BURLING RESOURCE	TON Oil & Gas Company 23456	7. Unit Agreement Name Allison Unit
3.	Address & Phone N PO Box 4289 (505) 326-9°	Farmington, NM 87 PROCEIVED	8. Farm or Lease Name Allison Unit 9. Well Number 17C
1.	Location of Well 160'FNL, 2475'FWL Latitude 36° 58.3'N, Longitude 107° 31.1'W		10. Field, Pool, Wildcat Blanco Mesaverde 11. Sec., Twn, Rge, Mer. (NMPM) Sec. 24, T-32-N, R-7W API# 30-045- 36773
14.		Int. Hwy 172 & Hwy 151 Ignacio, C	
15.		posed Location to Nearest Property or Lease Li	ne
16.	160' Acres in Lease		17. Acres Assigned to Well 320 W/2
18.	Distance from Pro	posed Location to Nearest Well, Drlg, Compl, or	Applied for on this Lease
19.	2180' Proposed Depth 6166'	This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4.	20. Rotary or Cable Tools Rotary
21.	Elevations (DF, FT 6579' GR		22. Approx. Date Work will Start
23.		ons Plan attached	DRILLING OPERATIONS AUTHORIZED ARI SUBJECT TO COMPLIANCE WITH ATTACH "GENERAL RECURRIMENTS"
24.	Authorized by:	egulatory/Compliance Supervisor	<u>5-4-0(</u>
PERI	MIT NO.	3 TITLE AFM	ATE 8/31/01

Archaeological Report to be submitted
Threatened and Endangered Species Report to be submitted
NOTE: This format is susued 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 II 811 South First, Artesia, N.M. 88210

DISTRICT IV

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

2040 South Pacheco, Santa Fe, NM 87505

OIL CONSERVATION DIVISION 2040 South Pacheco

Submit to Appropriate District Office State Lease - 4 Copies

Fee Lease - 3 Copies

Santa Fe, NM 87505

☐ AMENDED REPORT

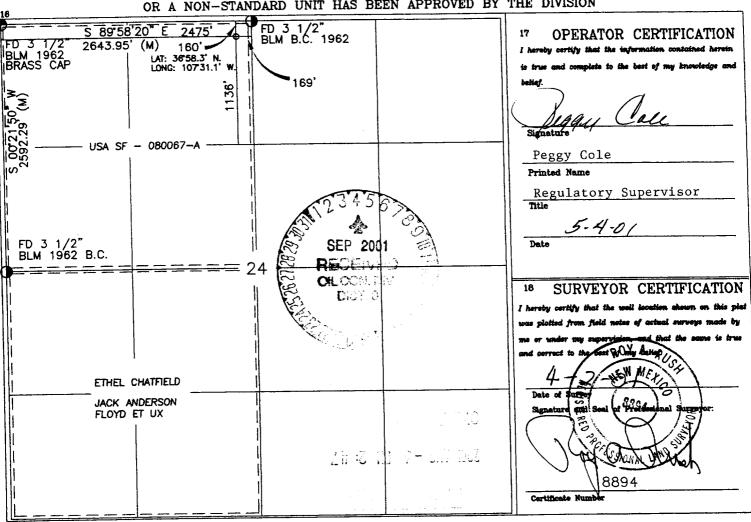
WELL LOCATION AND ACREAGE DEDICATION PLAT

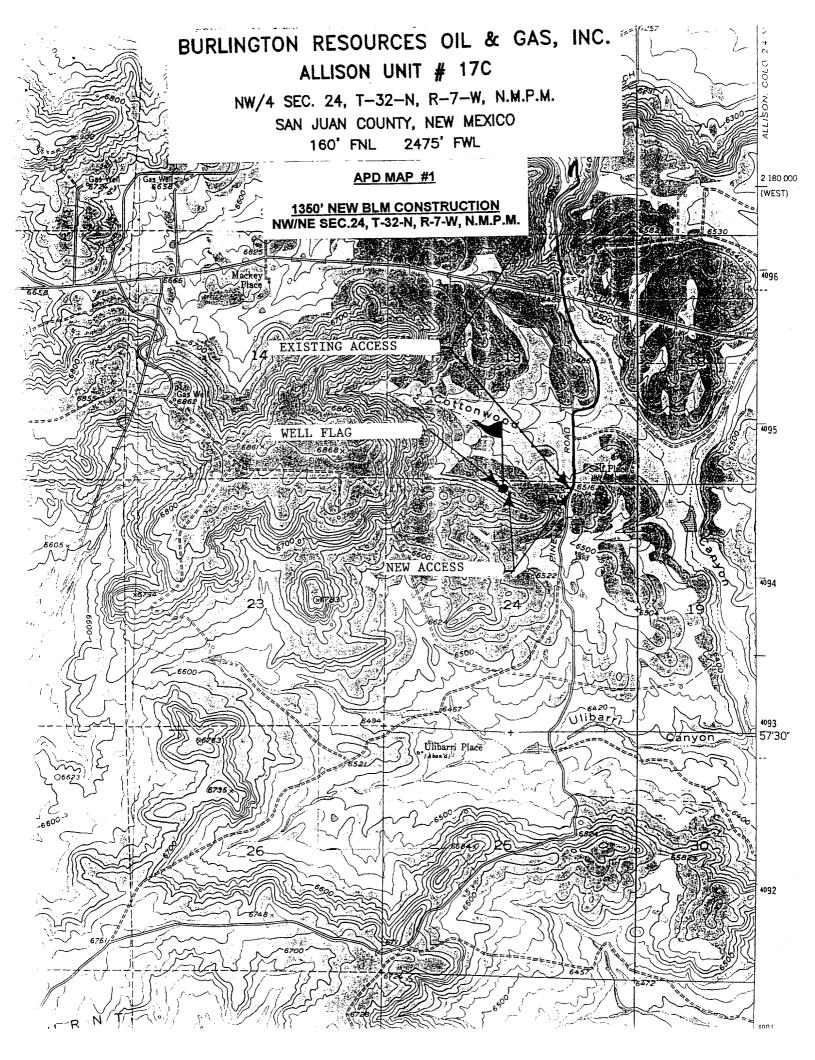
¹ API Number	Pool Code	Pool Name	
30-045- 30 77 3	72319	Blanco Mesaverde	
⁴ Property Code		operty Name CON UNIT	Well Number
FOGRED No.	•	erator Name	Elevation
14538	BURLINGTON RESOL	JRCES OIL & GAS INC.	6579

¹⁰ Surface Location Feet from the North/South line Feet from the East/West line County Section Township Range Lot Idn UL or lot no. WEST NORTH 2475 SAN JUAN 7-W 160 32-N 24 C

11 Bottom Hole Location If Different From Surface East/West line Feet from the North/South line Feet from the County Lot Idn UL or lot no. Section Township Range 14 Consolidation Code *Order No. " Joint or Infill 18 Dedicated Acres W/320

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





OPERATIONS PLAN

Well Name:

Allison Unit #17C

Surface Location:

160'FNL, 2475'FWL, Section 24, T-32-N, R-7-W

San Juan County, New Mexico

Latitude 36° 58.3'N, Longitude 107° 31.1'W

Formation: Elevation: Blanco Mesaverde

6579'GR

Formation Tops:	Top	Bottom	<u>Contents</u>
Surface	San Jose	2361'	aquifer
Ojo Alamo	2361 '	2461′	aquifer
Kirtland	2461'	2871 ′	gas
Fruitland	2871 ′	3276'	gas
Pictured Cliffs	3276'	3551'	gas
Lewis	3551 ′	4311 ′	gas
Intermediate TD	3801'		
Mesa Verde	4311'	4771'	gas
Chacra	4771 ′	5521 ′	gas
Massive Cliff House	5521 ′	5566 ′	gas
Menefee	5566 ′	5766'	gas
Point Lookout	5766'		gas
Total Depth	6166′		

Logging Program:

Cased hole logging - Gamma Ray, Cement bond from surface to TD Open hole logging - none Mud Logs/Coring/DST - none

Mud Program:

— — — — — — — — — — — — — — — — — — —				
Interval- MD	Туре	Weight	<u>Vis.</u>	Fluid Loss
0- 200'	Spud	8.4-9.0	40-50	no control
200- 3801'	LSND	8.4-9.0	30-60	no control
3801- 6166'	Air/Mist	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):

Measured

Hole Size	Depth	Csg Size	Weight	<u>Grade</u>
12 1/4"	0' - 200'	9 5/8"	32.3#	H-40
8 3/4"	0' - 3801'	7"	20.0#	J-55
6 1/4"	3701' - 6166'	4 1/2"	10.5#	J-55

Tubing Program: 0' - 6166' 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.

BOP Specifications, Wellhead and Tests (cont'd):

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 2000 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 drill crew.
- All BOP tests & 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/399 sx 50/50 Class "G"/Trinity Light with 2.5% sodium metasilicate, 2% calcium chloride, 10 pps Gilsonite, 0.5 pps Flocele. Tail with 90 sx Class "G" 50/50 poz w/2% gel, 2% calcium chloride, 5 pps Gilsonite, 0.1% antifoam and 0.25 pps Flocele (1143 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 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 2771'. First stage: cement w/242 sx 50/50 Class "G" poz w/2% gel, 2% calcium chloride, 5 pps Gilsonite, 0.1% antifoam and 0.25 pps Flocele. Second stage: w/323 sx 50/50 Class "G"/Trinity Light with 2.5% sodium metasilicate, 2% calcium chloride, 10 pps Gilsonite, 0.5 pps Flocele (1143 cu.ft. of slurry, 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 2461'. Two turbolating centralizers at the base of the Ojo Alamo at 2461'. Bowspring centralizers spaced every fourth joint from the base of the Ojo Alamo to the base of the surface casing.

4 1/2" Production Liner Cement to circulate liner top. Pump 248 sx Class "G" 50/50 poz
w/4.5% gel, 0.25 pps Flocele, 5 pps Gilsonite, 0.25% fluid loss,
0.1% retardant (354 cu.ft., 50% excess to circulate liner). 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 nose guide shoe on bottom with float collar spaced on top of shoe joint. The liner hanger will have a rubber packoff.

 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 (Air/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 bloose line.
- Engines will have spark arresters or water cooled exhaust.
- 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 Mesa Verde formation will be completed.
- No abnormal temperatures or hazards are anticipated.
- Anticipated pore pressures are as follows:

Fruitland Coal 150 psi Pictured Cliffs 260 psi Mesa Verde 375 psi

- Sufficient LCM will be added to the mud system to maintain well control, if lost circulation is encountered below the top of the Pictured Cliffs.
- The west half of Section 24 is dedicated to the Mesa Verde.
- This gas is dedicated.

Drilling Engineer Date

Alternative Intermediate Lead Slurry

Dowell-

Class G: D49(50:50) w/ 2.5% D79, 2% S1, 10pps D24, .5pps D29, .2%D46

where: D49-TXI Light weight Cement

D79-Sodium Metasilicate S1-Calcium Chloride

D24-Gilsonite

D46-Antifoam Agent

Properties-

Density:11.4 lb/gal Yield:2.58 cu ft./sk Water:14.55 gal/sk

Thick Time 70 b.c.(deg F): 4:06(101)

Free Water:0

Fluid Loss:462ml/30 min CS(crush)@24hr:394 CS(crush)@48hr:550

Halliburton-

Class H 47#/sk, 37#/sk Blended Silicalite, 3% Bentonite, 4% Calcium Chloride

Properties-

Density:11.4 lb/gal Yield:2.42 cu.ft./sk Water:14.02 gal/sk

Thick Time(70 bc): 11:00+ Fluid Loss: 702 cc/30min

Free Water: 0%

Compressive Strength (@25:19):500 Compressive Strength (@48:00):630