UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

_							
1a.	Type of Work		5. Lease Number SF-080714 Unit Reporting Number				
	DRILL	$\mathcal{O}(i_{i_1},i_{i_2})$					
			MV-8910005380				
1b.	Type of Well		6. If Indian, All. or Tribe				
	GAS						
2.	Operator		7. Unit Agreement Name				
	BURLING	TON	3				
	RESOURC	ES Oil & Gas Company	San Juan 30-6 Unit				
3.	Address & Phone N		8. Farm or Lease Name				
	PO Box 4289,	Farmington, NM 87499	San Juan 30-6 Unit				
		MAR 2002	9. Well Number				
	(505) 326-97	00	46B				
4.	Location of Well	(18.1.2 C)	10. Field, Pool, Wildcat				
	960' FNL, 1970	' FEL	Blanco MV/Basin DK				
	T-143- 260 A	9.9, Longitude 1070 25.8	11. Sec., Twn, Rge, Mer. (NMPM) Sec. 11, T-30-N, R-6-W				
	Latitude 36° 4	9.9, hongitude 10.7 25.6	API# 30-039- 26 876				
14.	Distance in Miles fr	om Nearest Town	12. County 13. State				
14.	17 miles from		Rio Arriba NM				
15.	Distance from Prop	osed Location to Nearest Property or Lease Li	ne				
16.	Acres in Lease		17. Acres Assigned to Well				
	7.0.00 III 2000	·	320 E/2				
18.	Distance from Prop	osed Location to Nearest Well, Drig, Compl, or	Applied for on this Lease				
	1400'						
		time action is subject to technical and	•				
19.	Proposed Depth	procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4.					
	7894 '	and appear pursuant to to ever other	Rotary				
21.	Elevations (DF, FT,	GR, Etc.)	22. Approx. Date Work will Start				
	6392' GR						
23.		nd Cementing Program					
	See Operation	ons Plan attached	Difference of Estations Admiorized Ari				
0			SUBJECT TO COMPLIANCE WITH ATTACH				
- -			"GENERAL REQUIREMENTS"				
24	Authorized but	MANUELLE	11-26-01				
24.	Authorized by: Re	egulatory/Compliance Supervisor	Date				
			2 / 6 /				
PERM	MIT NO	APPROVAL DA	ATE 3/21/0-				
	ROVED BY	TITLE	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.

PO Box 1980, Hobbs, NM 88241-1980

State of New Mexico Energy, Minerals & Natural Resources Department Form C-102 Revised February 21, 1994 Instructions on back

District II PO Drawer DD, Artesia, NM 88211-0719

OIL CONSERVATION DIVISION PO Box 2088

Submit to Appropriate District Office ION State Lease - 4 Copies Fee Lease - 3 Copies

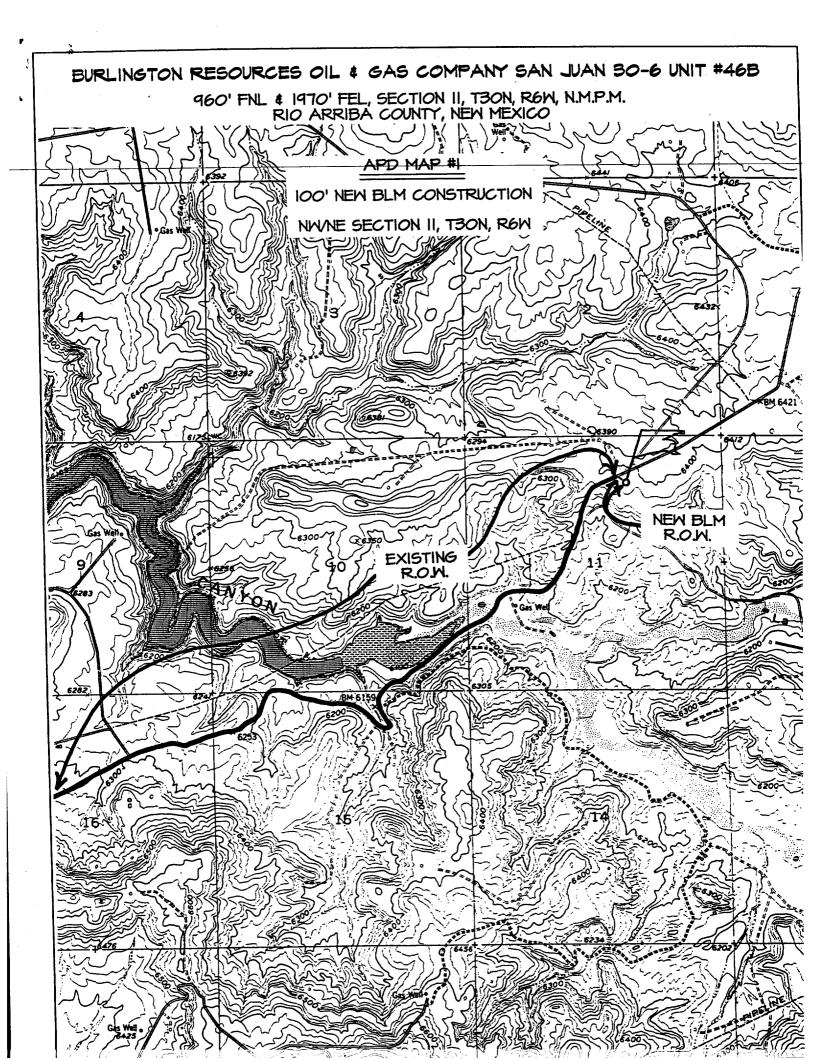
District III 1000 Rio Brazos Rd., Aztec, NM 87410

Santa Fe, NM 87504-2088

AMENDED REPORT

District IV PO Box 2088, Santa Fe, NM 87504-2088

		-1	WELL	LOCAT	ΓΙΟΝ	AND AC	REAGE DEC	ICATI	ON PL	Δ T		
	PI Number	1		*Pool C	ode			3	Pool Name	•		
30-039-	816	7231	9/7159						n Dakota Well Number			
Property Code					*Property Name SAN JUAN 30-6 UNIT							168
OGRID No.					*Operator Name					*Elevation		
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14550					10 St	urface	Location					
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UL or lot no.	Section	11 BC	ottom Range	Hole		et from the	f Differen		n Surf		West line	County
GC G 151 14.												
12 Dedicated Acres					za Joju	nt or Infill	⁵⁴ Commolidation Code	M Order	No.		·	
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OPERATIONS PLAN

Well Name: San Juan 30-6 Unit #46B

960'FNL, 1970'FEL, Section 11, T-30-N, R-6-W

Rio Arriba County, New Mexico

Latitude 36° 49.9, Longitude 107° 25.8

Formation: Blanco Mesa Verde/Basin Dakota

Elevation: 6392'GL

Formation Tops:	Top	Bottom	<u>Contents</u>
Surface	San Jose	2404'	
Ojo Alamo	2404'	2544'	aquifer
Kirtland	2544'	2852 '	-
Fruitland	2852'	3224'	gas
Pictured Cliffs	3224'	3459'	gas
Lewis	3459'	4074'	gas
Intermediate TD	3559'		
Huerfanito Bentonite	4074"	4454'	gas
Chacra	4454'	י 5299	gas
Cliff House	5299 '	5339 ′	-
Menefee	5339 ′	5584 ′	gas
Point Lookout	5584'	6004′	gas
Mancos	6004′	6869 '	gas
Gallup	6869 ′	7594 ′	gas
Greenhorn	7594'	7649'	gas
Graneros	7649'	7774'	gas
Dakota	7774'		gas
TD	7894'		
Pictured Cliffs Lewis Intermediate TD Huerfanito Bentonite Chacra Cliff House Menefee Point Lookout Mancos Gallup Greenhorn Graneros Dakota	3224' 3459' 3559' 4074' 4454' 5299' 5339' 5584' 6004' 6869' 7594' 7774'	3459' 4074' 4454' 5299' 5339' 5584' 6004' 6869' 7594' 7649'	gas gas gas gas gas gas gas gas gas

Logging Program:

Mud logs - none Open hole - none

Cased hole - CBL-CCL-GR - TD to surface

Cores - none

Mud Program:

Interval		Type	Weight	Vis.	Fluid Loss		
0- 2		Spud			no control		
200- 3		LSND			no control		
		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 Int	erval C	sg.Size	Wt.	Grade
12 1/4"	0'-	200'	9 5/8"	32.3#	WC-50
8 3/4"	0' -	י 3559 🥕	7"	20.0#	J-55
6 1/4"	34591 -	78941	4 1/2"	10.5#	K-55

Tubing Program:

0' - 7894' 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 #2).

Completion Operations -

7 1/16" 3000 psi double gate BOP stack (Reference Figure #3). 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/370 sx 50/50 Class "G" TXI Liteweight cement with 2% calcium chloride, 2.5% sodium metasilicate, 10 pps Gilsonite and 0.5 pps Celloflake. Tail w/90 sx Class "G" 50/50 poz w/2% gel, 2% calcium chloride, 5 pps Gilsonite, 0.25 pps Celloflake (1069 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 2752'. First stage: cement with w/190 sx Class "G" 50/50 poz w/2% gel, 2% calcium chloride, 5 pps gilsonite, 0.25 pps Celloflake. Second stage: 321 sx 50/50 Class "G"/TXI Liteweight with 2% calcium chloride, 2.5% sodium metasilicate, 10 pps Gilsonite, 0.25 pps Celloflake (1069 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 2544'. Two turbolating centralizers at the base of the Ojo Alamo at 2544'. 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 cover minimum of 100' of $4\ 1/2'' \times 7''$ overlap. Lead with $442 \times 50/50$ Class "G" Poz with 58 gel, 0.25 pps Celloflake, 5 pps Gilsonite (637 cu.ft.), 408 excess to cement $4\ 1/2'' \times 7''$ overlap). WOC a minimum of 18 hrs prior to completing.

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

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

- 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 Mesaverde and Dakota 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 east half of Section 11 is dedicated to the Mesaverde and Dakota in this well.
- This gas is dedicated.

Bunan D. Shut Drilling Engineer 11/26/01 Date