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

a.	Type of Work	e de la companya de l	5. Lease Number			
	DRILL		SF-07765			
			Unit Reporting N	umber		
ı h	Type of Well	Mag.	6. If Indian, All. or 1	Γribe		
b.	Type of Well GAS	MAR SO	2			
	GAD					
2.	Operator		7. Unit Agreement	Name		
	BURLINGTON RESOURCES Oil & G	Sas Company				
 3.	Address & Phone No. of Operator		8. Farm or Lease N	iame		
<b>J</b> .	PO Box 4289, Farmington	, NM 87499	East			
	10 100 1100, 1 00 minus	•	9. Well Number			
	(505) 326-9700		9 <b>M</b>			
<u> </u>	Location of Well		10. Field, Pool, Wil	dcat		
4.	1265' FNL, 1980'FWL	ı	Blanco MV/Bas:			
			11. Sec., Twn, Rge,	Mer. (NMPM)		
	Latitude 36 <sup>0</sup> 52.26, Longi	tude 108 <sup>0</sup> 03.05	C Sec.25, T31N,			
	nacionde 30 52.20, nongi		API# 30-045- 30			
14.	Distance in Miles from Nearest Tov		12. County	13. State		
14.	5.8 Miles To Aztec NM Pos		San Juan	NM		
15.	Distance from Proposed Location 1265'	to Nearest Property or Le				
16.	Acres in Lease		17. Acres Assigne	ed to Well		
-			320 W/2	•		
18.	Distance from Proposed Location 567 Filia 4-blur	to Nearest Well, Drig, Con	mpl, or Applied for on this	Lease		
19.	Proposed Depth procedural	raview pursuant to 45 C?	<sup>ୟ</sup> ନ 3165. <b>2</b> 0. Rotary or Cab	le Tools		
10.	7116 and appea	I purauant to 43 CFR 318	5.4. Rotary			
21.	Elevations (DF, FT, GR, Etc.)		22. Approx. Date	Work will Start		
	6019'					
23.	Proposed Casing and Cementing	Program		e ta a la Sagrada de		
ZJ.	See Operations Plan at	tached				
25.			性的認為。	lado y		
23.						
20.			12-1	1201		
	Authorized by: Julius	Call		12-01		
24.	Authorized by: Regulatory/C	ompliance Supervis		12-01		
24.	Authorized by: Regulatory/C	· · · · · · · · · · · · · · · · · · ·	or Date	12-01 26/56		

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 I 1625 H. French Dr., Hobbe, 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

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

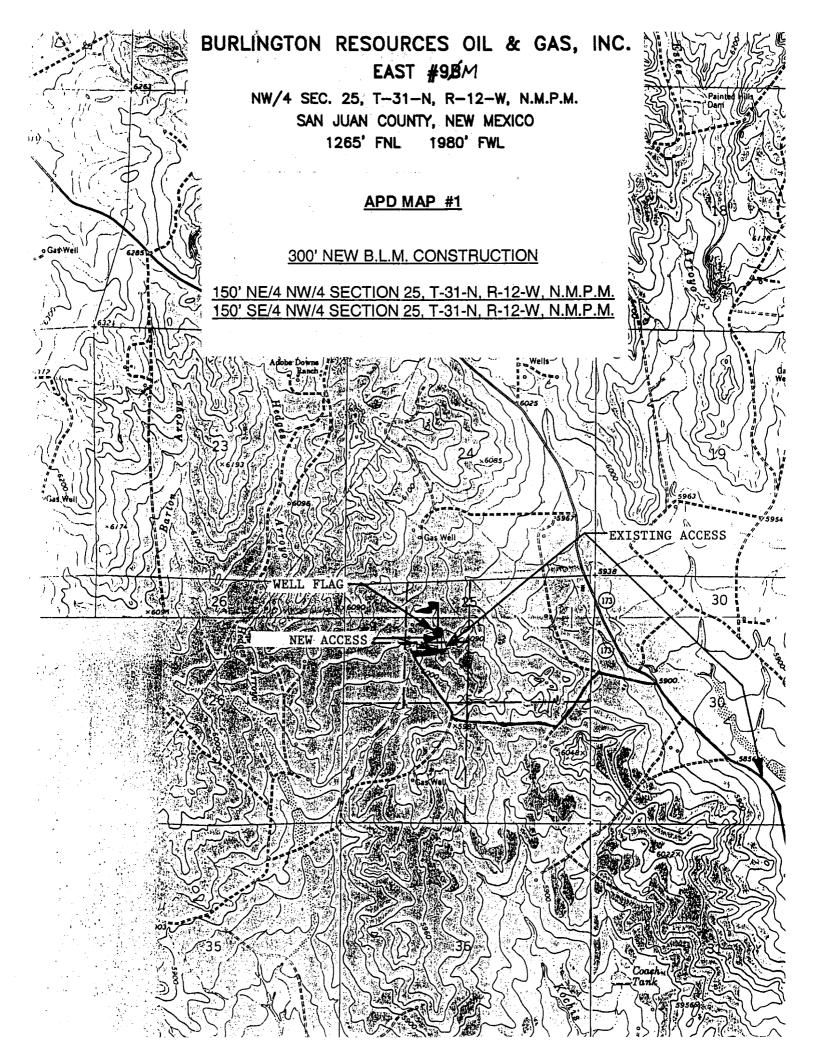
8894

Cartificate Number

DESTRICT III 1000 Rio Brasos Rd., Astec, N.M. 87410

OIL CONSERVATION DIVISION 2040 South Pacheco

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	Number	748	1	9/71599	Blan	co MesaVerde				
30-045 Property Co		740_	1 1231	<u> </u>	Property N				• Te	ll Number
18517	_				EAST					9 <b>8</b> M
OGRID No				. <u></u>	*Operator 1	iame			•	Elevation
14538			BU	RUNGTON	RESOURCES	OIL AND GAS, IN	IC.		6	019'
					10 Surface	Location				<del>_</del>
L or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/We		SAN JUAN
С	25	31-N	12-W		1265'	NORTH	1980'	WE	<u>SI</u>	SAN JUAN
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#### OPERATIONS PLAN

Well Name: East 9M

Location: 1265'FNL, 1980'FEL, Sec 25, T-31-N, R-12-W

San Juan County, NM

Latitude 36° 52.25, Longitude 108° 03.05

Formation: Blanco Mesaverde/Basin Dakota

Elevation: 6019'GL

Formation Tops:	Top	Bottom	Contents
Surface	San Jose	831'	
Ojo Alamo	831'	891	aquifer
Kirtland	891 <b>′</b>	1901′	gas
Fruitland	1901'	2486'	gas
Pictured Cliffs	2486'	2601'	gas
Lewis	2601'	3216'	gas
Mesa Verde	3216 <b>′</b>	3571 <i>′</i>	gas
Chacra	3571 <b>′</b>	4101'	gas
Massive Cliff House	4101'	4266'	gas
Menefee	4266'	4806′	gas
Intermediate TD	4416'		
Massive Point Lookout	4806'	5191'	gas
Mancos	5191 <b>′</b>	6106 <b>′</b>	gas
Gallup	6106 <b>′</b>	6806 <b>'</b>	gas
Greenhorn	6806'	6861'	gas
Graneros	6861'	6921'	gas
Dakota	6921 <b>′</b>		gas
TD	7116'		

## Logging Program:

Cased hole - CBL-CCL-GR - TD to surface Open hole - none

Cores - none

# Mud Program:

Interval	Type	Weight	<u>Vis.</u>	Fluid Loss
0- 320	Spud	8.4-9.0	40-50	no control
320- 4416'	LSND	8.4-9.0	30-60	no control
4416- 7116'	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' - 320'	9 5/8"	32.3# H-40
8 3/4"	0' - 4416'	7"	23 & 20.0# J-55
6 1/4"	4316' - 7116'	4 1/2"	10.5# J- <b>55</b>

# Tubing Program:

0' - 7116' 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 255 sx Class "B" cement with 1/4# celloflake/sx and 3% calcium chloride (301 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/554 sx 50/50 Class G/TXI lightweight w/1.75% sodium metasilicate, 0.2% Defoamer, 0.15% Retarder, 8# gilsonite/sx and 1/2# celloflake/sx. Tail w/95 sx 50/50 Class "G" Poz, 2% gel, 1/4 pps celloflake, 5 pps gilsonite, 0.1% antifoam agent, 0.1% Dispersant, 0.1% Retarder (1327 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 1801'. First stage: cement with 614 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: 210 sx 50/50 Class G/TXI lightweight w/2.5% sodium metasilicate, 2% calcium chloride, 10% gilsonite/sx and 1/2% celloflake/sx (1327 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 891'. Two turbolating centralizers at the base of the Ojo Alamo at 891'. 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 279 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 (402 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/84 sx 9.5 PPG Litecrete Blend w/0.11% dispersant, 0.5% fluid loss. Tail w/152 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 (430 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.