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

	pe of Work		5. Lease Number	
	DRILL		SF-077764 Unit Reporting Number	
•	pe of Well GAS		6. If Indian, All. or Tribe	
Ė	perator SURLING RESOURCE	TON ES Oil & Gas Company	7. Unit Agreement Name	
_		(6) (7)	8. Parm or Lease Name	
3. Ad	Idress & Phone N PO Box 4289,	Farmington, NM 87499 NOV 2001	Schumacher 9. Well Number	
	(505) 326-97	OILCON DIV	25) 25)	
	cation of Well 35'FSL, 660'F	FEL DIST. 3	10; Field, Pool, Wildcat Blanco Mesaverde 11. Sec., Twn, Rge, Mer. (NMPI	A)
Lā	atitude 36 <sup>0</sup> 4	18.5, Longitude 107 <sup>0</sup> 54.1	P Sec.17, T-30-N, API# 30-045- 30829	R-10-
14. Di	stance in Miles fr	rom Nearest Town	12. County 13. S	
•	miles from A		San Juan	
	stance from Prop	posed Location to Nearest Property or Lease Li	ne	
•	cres in Lease		17. Acres Assigned to Well 311.82 S/2	
		posed Location to Nearest Well, Drig, Compl, or	Applied for on this Lease	- <del></del>
19. Pi	200' roposed Depth 748'	This action is subject to technical wild procedural raview pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4.	20. Rotary or Cable Tools Rotary	
5			22. Approx. Date Work will S	art
21. E	levations (DF, FT, 496′ GR	, GR, Etc.)	22. Approx. Date Work will 3	
21. E	496' GR	and Cementing Program ons Plan attached	DRIELING OPERATIONS AUTHORIS SUBJECT TO CAMPBURGE WITH TOTAL	ION ARE

Archaeological Report to be submitted

PERMIT NO.

APPROVED BY\_\_\_\_

Threatened and Endangered Species Report to be submitted

/s/ Jim Lovato

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.

DATE \_\_\_\_\_\_

District I PO Box 1980, Hobbs, NM B8241-1980

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

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

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

State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088

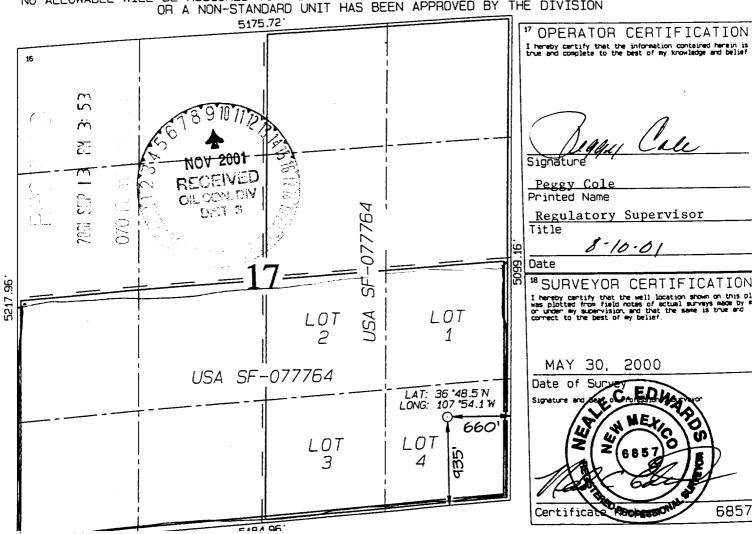
Form C-102 Revised February 21, 1994 Instructions on back Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

AMENDED REPORT

# WELL LOCATION AND ACREAGE DEDICATION PLAT

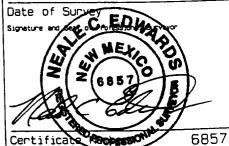
'API Number				*Pool Code			³Pool Name			
30-045- 30829				72319 Blanco Mesaverde						
*Property	Code			Property Name				*Well Number		
					SCHUMA	CHER			9B	
7491								Elevation		
'OGRID N	o.				*Operator		COMPANY			
14538	į	BURLINGTON RESOURCES OIL & GAS COMPANY						6496		
14336		·		1	<sup>10</sup> Surface	Location				
Fig. for the North/South line East from the Fast West line County								County		
UL or lot no	Section	Township	Range	Let Ith			i i			SAN JUAN
P	17	30N	10W		935	SOUTH	660	EAST SAN JUA		JAN JUAN
<sup>11</sup> Bottom Hole Location If Different From Surface										
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/We	st line	County
		<u> </u>								
		1	<del></del>	l	<sup>55</sup> Order No.	<u></u>	I	1		l
Dedicated Acres MV 311.82	2 S/2	13 Joint or Inf	ill Cons	colidation Code	Order No.					
TATE OF THE PROPERTY OF THE PR										
NO ALLOWARIE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED										

OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



Regulatory Supervisor

"SURVEYOR CERTIFICATION



### OPERATIONS PLAN

Well Name:

Schumacher #9B

Surface Location:

935'FSL, 660'FEL, Section 17, T-30-N, R-10-W

San Juan County, New Mexico Latitude 36<sup>o</sup> 48.5', Longitude 107<sup>o</sup> 54.1'

Formation: Elevation: Blanco Mesaverde

6496'GR

<u>Top</u>	Bottom	Contents
San Jose	1683'	aquifer
1683′	1833′	aquifer
1833′	2499'	gas
2499'	3053'	gas
3053'	3193'	gas
3193′	3803 <b>′</b>	gas
3443'		
3803'	4098'	gas
4098'	4703′	gas
4703'	4858'	gas
4858'	5348'	gas
5348'		gas
57 <b>4</b> 8′		
	San Jose 1683' 1833' 2499' 3053' 3193' 3443' 3803' 4098' 4703' 4858' 5348'	San Jose 1683' 1683' 1833' 1833' 2499' 2499' 3053' 3053' 3193' 3193' 3803' 3443' 3803' 4098' 4098' 4703' 4703' 4858' 4858' 5348'

Logging Program:

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

## Mud Program:

<u> </u>					
Interv	ral- MD	Type	Weight	<u>Vis.</u>	Fluid Loss
	200'	Spud	8.4-9.0	40-50	no control
200- 3	3443'	LSND	8.4-9.0	30-60	no control
3443- 5	5748'	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	Grade
12 1/4"	0' - 200'	9 5/8"	32.3#	H-40
8 3/4"	0' - 3443'	7"	20.0#	J-55
	343' - 5748' 🗸	4 1/2"	10.5#	J-55

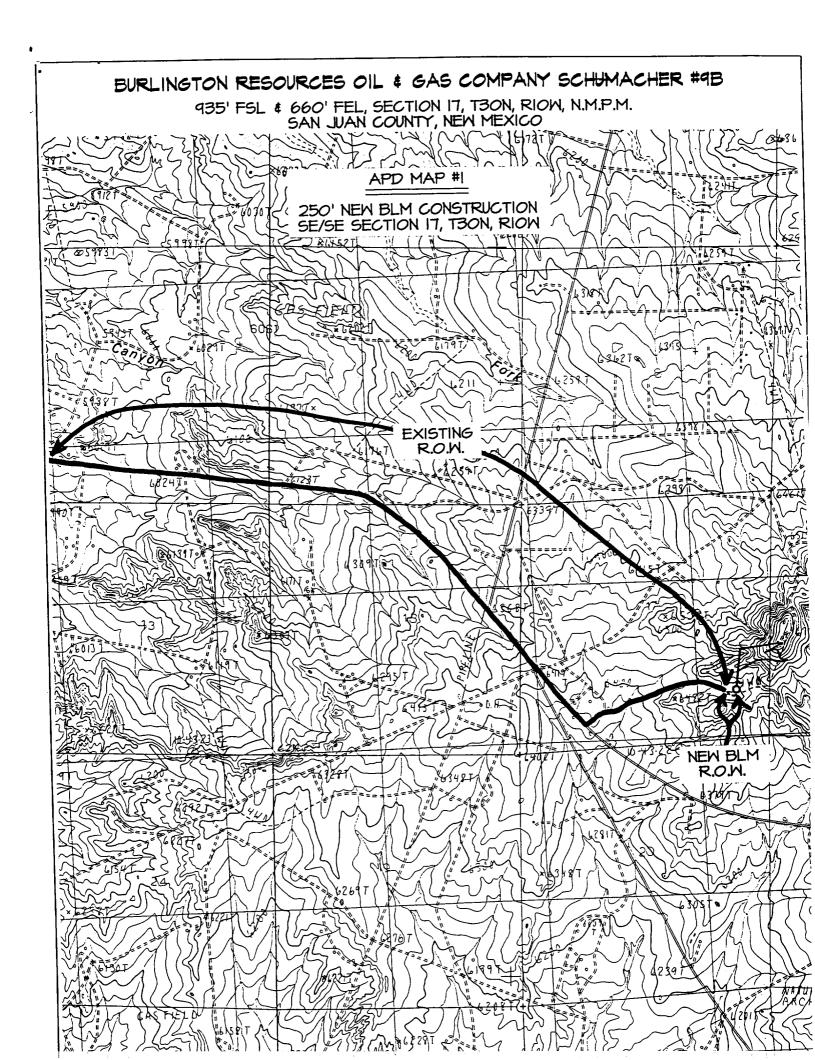
Tubing Program:

0' - 5748' 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 2399'. 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 quide 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 1833'. Two turbolating centralizers at the base of the Ojo Alamo at 1833'. 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 100 min avalap 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 blooie 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
- The south half of Section 17 is dedicated to the Mesa Verde.
- This gas is dedicated.

3/13/01 Date