

April 14, 1977

Operations Plan  
Mudge 11A

I. Location: 1800'N, 790'W, Section 10, T-31-N, R-11-W, San Juan County, NM

Field: Blanco Mesa Verde

Elevation: 6062'DF

II. Geology:

A. Formation Tops:	Surface	Nacimiento	Lewis	2900'
	Ojo Alamo	1000'	Mesa Verde	4300'
	Kirtland	1045'	Menefee	4555'
	Fruitland	2270'	Point Lookout	4957'
	Pic.Cliffs	2750'	Total Depth	5360'

B. Logging Program: GR-Ind. and GR-Density at Total Depth.

C. Coring Program: none

D. Natural Gauges: 4290', 4545', 4915' and at Total Depth.  
Also gauge any noticeable increase in gas. Record all gauges in daily drilling report and on morning report.

III. Drilling:

A. Mud Program: mud from surface to 3100'. Gas from intermediate casing to Total Depth.

IV. Materials:

A. Casing Program:	<u>Hole Size</u>	<u>Depth</u>	<u>Casing Size</u>	<u>Wt.&amp;Grade</u>
	13 3/4"	200'	9 5/8"	32.3# H-40
	8 3/4"	3100'	7"	20.0# K-55
	6 1/4"	2950-5360'	4 1/2"	10.5# K-55

B. Float Equipment: 9 5/8" surface casing - Larkin guide shoe (fig. 102)  
7" intermediate casing - Dowell guide shoe (fig. 50101) and Dowell self-fill insert float valve (fig. 53003), 5 B&W stabilizers (Prod. No. 637085) every other joint above shoe. Run float two joints above shoe.

4 1/2" liner - T.I.W. liner hanger with neoprene packoff. Larkin geyser shoe (fig. 222) and Larkin flapper type float collar (fig. 404 M&F).

C. Tubing: 5360' of 2 3/8", 4.7#, J-55 8rd EUE tubing with a common pump seating nipple above perforated pup joint with bull plugged full joint for mud anchor on bottom.

D. Wellhead Equipment: 10" 900 x 9 5/8" casing head. 10" 900 x 6" 900 xmas tree.