

Operations Plan  
Johnston #7A

I. Location: 1010'S, 1770'E, Section 11, T-28-N, R-9-W, San Juan County, NM

Field: Blanco Mesa Verde Elevation: 5859'GL

II. Geology:

A. Formation Tops:	Surface	Nacimiento	Lewis	2409'
	Ojo Alamo	1219'	Mesa Verde	3872'
	Kirtland	1301'	Menefee	3920'
	Fruitland	1909'	Point Lookout	4489'
	Pic.Cliffs	2219'	Total Depth	4940'

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

C. Coring Program: none

D. Natural Gauges: 3865', 3910', 4480' 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 2610'. 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"	36.0# K-55
	8 3/4"	2610'	7"	20.0# K-55
	6 1/4"	2460-4940'	4 1/2"	10.5# K-55

B. Float Equipment: 9 5/8" surface casing - cement guide shoe.

7" intermediate casing - cement guide shoe and self-fill insert float valve, 5 stabilizers every other joint above shoe. Run float two joints above shoe.

4 1/2" liner - 4 1/2" liner hanger with neoprene packoff.  
Geyser shoe and flapper type float collar

C. Tubing: 4940' of 2 3/8", 4.7#, J-55 8rd EUE tubing with a common pump seating nipple one joint above bottom. Tubing will be open ended.

D. Wellhead Equipment: 10" 2000 x 9 5/8" casing head. 10" 2000 x 6" 2000 xmas tree.