

November 6, 1978

Operations Plan - Jicarilla 67 #15

I. Location: 1500'N, 1520'E, Section 30, T-25-N, R-5-W, Rio Arriba County, NM

Field: Basin Dakota

Elevation: 6523'GL

II. Geology:

A. Formation Tops:	Surface	San Jose	Menefee	4095'
	Ojo Alamo	1969'	Point Lookout	4718'
	Kirtland	2114'	Gallup	5797'
	Fruitland	2379'	Greenhorn	6629'
	Pic.Cliffs	2520'	Graneros	6693'
	Lewis	2570'	Dakota	6831'
	Mesa Verde	4060'	Total Depth	7075'

B. Logging Program: Induction Electric and Gamma Ray Density at TD.

C. Coring: none

D. Samples: none

III. Drilling:

A. Mud Program: mud from surface to Total Depth.

IV. Materials:

A. Casing Program:	<u>Hole Size</u>	<u>Depth</u>	<u>Csg.Size</u>	<u>Wt.&Grade</u>
	13 3/4"	200'	9 5/8"	32.3# H-40
	8 3/4"	5420'	4 1/2"	10.5# J-55
	7 7/8"	6500'	4 1/2"	10.5# J-55
	7 7/8"	7075'	4 1/2"	11.6# J-55

B. Float Equipment: 9 5/8" surface casing - Pathfinder guide shoe (Part #2006-1-010)

4 1/2" production casing - Howco guide shoe (Prod. No. 102-1) and self-fill insert valve (Prod. No. 177-13). Two Howco multiple stage cementers (Prod. No.200-03) equipped for three stage cementing. Set tool for second stage at 5320' and tool for third stage at 2670'. Run 20 Howco centralizers (Prod. No. 200-03) spaced as follows: one on each of the bottom 8 joints, one below each stage tool and five above each stage tool spaced every other joint.

C. Tubing: 7075' of 2 3/8", 4.7#, J-55 tubing with a common pump seating nipple and an expendable check valve with drill type guide.

D. Wellhead Equipment: 10" 3000 x 9 5/8" WKM Brewster Type R casing head with 10" x 4 1/2" Type SA casing hanger, 10" 3000 x 6" 3000 Brewster xmas tree (Dwg. #1-004-78). Wellhead representative to set all slips.

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