

April 14, 1977

Operations Plan - Huerfano Unit #281

I. Location: 1590'S, 1495'E, Section 5, T-25-N, R-9-W, San Juan County, NM

Field: Basin Dakota

Elevation: 6822'DF

II. Geology:

A. Formation Tops:	Surface	Nacimiento	Point Lookout	4582'
	Ojo Alamo	1317'	Mancos	4982'
	Kirtland	1485'	Gallup	5732'
	Fruitland	1945'	Greenhorn	6550'
	Pic.Cliffs	2197'	Graneros	6610'
	Lewis	2300'	Dakota	6715'
	Mesa Verde	3742'	Total Depth	6870'

B. Logging: Induction-Electric and Gamma Ray Density at Total Depth.

C. Coring Program: 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>
	12 1/4"	200'	8 5/8"	24.0# H-40
	7 7/8"	6500'	4 1/2"	10.5# J-55
	7 7/8"	6870'	4 1/2"	11.6# J-55

B. Float Equipment: 8 5/8" surface casing - B&W guide shoe (Prod.No. FC-06)

4 1/2" production casing - Halliburton guide shoe (Pr.Ref.7A) and self fill insert valve (Pr.Ref.36A&37). Two Halliburton multiple stage cements (Prod.Ref.558) equipped for three stage cementing. Set tools at 5082' and 2400'. Ran 20 Halliburton centralizers (Pr.Ref.650) as follows: one on each of the bottom 8 joints; one below and five above stage tool spaced every other joint.

C. Tubing: 6870' of 2 3/8", 4.7#, J-55 tubing, common pump seating nipple and a Baker expendable check valve with drill type guide.

D. Wellhead Equipment: 8" x 2000 psi wellhead.

V. Cementing:

Surface casing (12 1/4" x 8 5/8") - use 160 sks. of Class "B" cement with 1/4# gel flake per sack and 3% calcium chloride (189 cu.ft. of slurry, 125% excess to circulate). WOC 12 hours. Test to 600#/30 minutes.