

OPERATIONS PLAN
 J. FELIX HICKMAN
 Clark #11 Well
 1865' FNL - 550' FEL
 Sec. 5, T24N, R3W, NMPM
 Rio Arriba County, NM

EXPECTED FORMATION TOPS:

Ojo Alamo	2816'	Point Lockout	5470'
Kirtland	2985'	Mancos	
Fruitland	3088'	Gallup	6590'
Pictured Cliffs	3280'	Greenhorn	7442'
Lewis/Chacra	3763'	Graneros	
Cliff House	4980'	Dakota	7526'
Menefee		Total Depth	7800'

LOGGING PROGRAM: IES and CDL

Catch Samples every 10' from 6500 feet to total depth.

CASING PROGRAM:

Hole Size	Casing Size	Wt./Ft.	Setting Depth	Grade & Condition	Cementing Program
12 1/4"	8-5/8"	32#	200'	K-55, New	Surface - Cement 8-5/8" csg. at 200' w/ 150 cf Class B w/ 2% CaCl.
7-7/8"	4-1/2"	10.5#	7800'	J-55, New	1st Stg - 75 sx 65-35 poz + 12% gel & 1/4# flocele/sk & 100 sx Class B 12 1/2# of Gilsonite & 1/4# flocele/sk. 338 cf slurry. 2nd Stg - 175 sx 65-35 + 12% gel & 1/4# flocelesk; 100 sx. Class B + 4% gel & 1/4# flocele/sk. 610 cf slurry. 3rd Stg - 375 sx of 65-35 + 12% gel & 1/4# flocele/sk followed by 100 sx Class B w/ 4% gel & 1/4# flocele. 1134 cf slurry. TOTAL OF 2082 cf.

WELLHEAD EQUIPMENT: Casing head - 8-5/8" x 10" 600 series w/ flanged outlets.
 Tubing head - 6" x 10" 600 series w/ flanged outlets.

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