

MARATHON OIL COMPANY

INDIAN HILLS UNIT No. 6  
ADDITIONAL INFORMATION  
Comply with NTL-6

In conjunction with Form 9-331C, Application to drill subject well, Marathon Oil Company submits the following items of informations in accordance with BLM requirements:

1. Geologic Name of Surface Formation

Quaternary Alluvium

2. Estimated Tops of Important Geologic Markers

Grayburg	280'	Strawn	8850'
San Andres	750	Morrow	9000'
Glorieta	2400		
Bone Spring	3130		
Upper Penn	9600		

3. Estimated Depths of Anticipated Water, Oil or Gas Bearing Formations

Grayburg (Water)	300
San Andres (Water)	640
Upper Penn (Water & Gas)	6300
Morrow (Gas)	9000

4. Casing and Cementing Program

13 3/8" Surface to 250':	Cement to surface with 200 sxs Lite & 100 sxs Class "C" with 2% CaCl <sub>2</sub>
8 5/8" Intermediate to 2000':	Cement to surface with 700 sxs Lite & 200 sxs Class "C" w/2% CaCl <sub>2</sub>
5 1/2" Production to 9500':	Cement to <del>1500'</del> <sup>5000'</sup> with 500 sxs Lite & 500 sxs Class "H" 50/50 Pozmix

5. Pressure Control Equipment (Exhibits D & E)

13 3/8" Surface:	11" 3000 psi working pressure annular preventor tested to 1000 psi
	11" 3000 psi working pressure pipe and blind rams tested to 1000 psi
8 5/8" Intermediate:	11" 3000 psi working pressure annular preventor tested to 3000 psi
	11" 3000 psi working pressure pipe and blind rams tested to 3000 psi
5 1/2" Production:	11" 5000 psi working pressure annular preventor tested to 5000 psi
	11" 5000 psi working pressure pipe rams and blind rams tested to 5000 psi

6. Proposed Mud Program

0 - 300	Native; Mud Wt - 8.5 - 9.0, Viscosity 30-40 Sec
300 - 2,000	Brine Water; Mud Wt - 9.0 - 10.0, Viscosity 28-32 Sec
2,000 - 8,000	Fresh Water; Mud Wt - 8.6, Viscosity 28 Sec
8,000 - 9,500	Fresh Water Gel; Mud Wt - 8.8 - 9.2, Viscosity 30-34 Sec