

MARATHON OIL COMPANY

INDIAN BASIN GAS COM #2

ADDITIONAL INFORMATION

Comply with Order 1

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

1. Geological Name of Surface Formation

Quaternary Alluvium

2. Estimated Tops of Important Geological Markers

Grayburg	175'	L. Bone spring	5760'
San Andres	475'	Wolfcamp	6120'
Glorietta	2025'	U. Penn	7330'
U. Bone Spring	3140'	Strawn	7950'
Atoka	8500'	Morrow	9000'

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

Grayburg (water)	175'	L. Bone spring (water/oil)	5760'
San Andres (water)	475'	Wolfcamp (oil/gas)	6120'
Glorietta (water)	2025'	U. Penn (gas)	7330'
U. Bone Spring (water/oil)	3140'	Strawn	7950'
Atoka	8500'	Morrow	9000'

4. Casing and Cementing Program

13 3/8" Surface to 250': Cement to surface with 275 sxs Class "C" with 2% CaCl₂

8 5/8" Intermediate to 2000': Cement to surface with 425 sx "C" Lite + 10 #/sk salt + 1/4 #/sk cello-flake. Tail in with 200 sx Class "C" + 2% CaCl₂ → OMIT ⁵³⁵

5 1/2" Production to 9000': Cement 1st stage with 500 sacks Class "H" + 3% KCl. Cement 2nd stage w/ 600 sacks Class "H" lite w/ 5 #/sk salt, tail in w/ 100 sacks Class "H" + 2% gel. Volumes are calculated to bring cement up to ± 1500'. Stage tool to be set @ ± 6800'.

5. Pressure Control Equipment (Exhibit E)

20" Conductor	Rotating Head for Diverter System
13 3/8" Surface	13 5/8" 3M Annular tested to 1500 psi 13 5/8" 3M Dual Ram tested to 3000 psi 3M Choke Manifold tested to 3000 psi
8 5/8" Intermediate	11" or 13 5/8" 3M Annular tested to 1500 psi 11" or 13 5/8" 3M Dual Ram tested to 3000 psi 3M Choke Manifold tested to 3000 psi

6. Proposed Mud Program

0 - 250	Native; Mud Wt: 8.3 - 9.2, Viscosity 35 - 40 Sec
250 - 2,000	Fresh Water; Mud Wt: 8.4 - 8.6, Viscosity 28 - 36 Sec
2,000 - 6,000	Fresh Water; Mud Wt: 8.4 - 8.8, Viscosity 36 - 40 Sec
6,000 - 7,200	K+ Polymer; Mud Wt: 8.5 - 8.9, Viscosity 30 - 34 Sec
7,200 - 9,000	K+ Polymer; Mud Wt: 8.5 - 8.9, Viscosity 30 - 34 Sec, Filtrate < 20