

MERIDIAN OIL INC.

Shinnery Federal No. 1
1980' FSL & 1980' FWL
Sec. 13, T-18-S, R-32-E
Lea County, New Mexico
NM-32410

To supplement USGS Form 3160-3 Application to Drill the following additional information is submitted concerning questions on Page 5 of NTL-6:

1. See Form 3160-3.
2. See Form 3160-3.
3. The geological name of surface formation is: Quaternary Alluvium
4. See Form 3160-3.
5. See Form 3160-3.
6. The estimated tops of important geological markers are:

Rustler	1240'	Delaware Sand	4940'	3rd Bone Springs Sand	9850'
Salt	1600'	Bone Springs	6900'	Lower Leonard	10,200'
B/Salt	2600'	1st Bone Springs Sand	8340'	Wolfcamp	10,540'
Yates	3030'	2nd Bone Springs Sand	8950'	Strawn	11,986'
Queen	4250'				

7. The estimated depths at which anticipated water, oil, gas and mineral bearing strata are as follows:

1st Bone Spring 8340' - Oil
Wolfcamp 10,540' - Oil

8. See Form 3160-3. All casing will be new.
9. See Form 3160-3 for depths of strings. Cement volumes and additions as follows:
 - a. 13 3/8" csg: Cement w/350 sxs Cl "C" cmt w/2% CaCl₂. Circ to surface.
 - b. 9 5/8" csg: Cement w/±1000 sxs Lite "C" cmt and 200 sxs Cl "C" w/2% CaCl₂. Circ.
 - c. 5 1/2" csg: Cement 1st stage w/±1000 sxs Cl "H". Cement 2nd stage w/1300 sxs Lite & 100 sx Cl "H" to bring TOC @ 2700'.

A caliper log will be run prior to setting 9 5/8" & 5 1/2" pipe to determine exact cement volumes required.

10. The pressure control diagram is attached to Form 9-331C. The following additional information is as follows:

13 3/8" casing installation: 13 5/8"-3M annular BOP and 13 3/8" casing tested to 600 psi for 30 minutes before drilling out 13 3/8" casing shoe.