

NATIONAL COOPERATIVE REFINERY ASSOCIATION
FEDERAL 11-20-34 #3
1890' FSL X 660' FWL, Section 11, T20S-R34E
Lea County, New Mexico

DRILLING PLAN

1. Estimated Tops of important Geologic Markers:

KB 3656' est.

<u>Formation</u>	<u>Measured Depth</u>	<u>Est. Subsea</u>	<u>Possible Pay</u>
Red Bed	0 to 1600'	3656 to 2026'	
T. Rustler Anhy	1600'	2056'	
T. Yates	3470'	186'	
T. Seven Rivers	3860'	-204'	
T. Queen	4640'	-984'	
T. Grayburg	4720'	-1064'	
T. San Andres	4895'	-1239'	*oil
T. Delaware	5650'	-1994'	
T. Brushy Canyon	8020'	-4364'	*oil
T. Bone Spring	8220'	-4564'	*oil
T. Hueco Lime	10,580'	-6924'	
T. Strawn	12,070'	-8414'	
T. Atoka (Bend)	12,550'	-8894'	*gas
T. Morrow	12,850'	-9194'	*gas
T.D. L. Morrow	13,300'	-9644'	

Primary objective: Morrow sands - gas & Dist. (54° API).

Secondary objective: Bone Spring Lime - Oil (36° API).

2. Estimated depths of anticipated water, oil, gas or other mineral bearing formations which are expected to be encountered:

Oil: 4895', 8020', 8220'

Gas: 12,550', 12,850'

3. Minimum Blowout Control Specifications:

Series 1500 13-5/8" double ram type 5000 psi working pressure BOP with a 13-5/8" 5000 psi annular preventer. See attached drawing.