ATTACHMENT TO FORM 3160-3 (APD)
UNION TEXAS PETROLEUM
NESTE WILLIAMS FED. #5
EDDY COUNTY, NEW MEXICO

Eight Point Drilling Plan

I. Geologic Marker Tops

Formation	Top
Quarternary Alluvium	Surface
Bottom of Salt & Annydrite	± 1600
Yates	1750
Queen	2850
San Andres	3800
Bone Spring	5200
1st Bone Spring Carb	7260
2nd Bone Spring Sand	7560

II. Mineral, Water, Oil, or Gas Bearing Formations

Formation	Top	Possible Content	Plan for Protection
Santa Rosa	400′	Water	13-3/8" casing cemented to surface
Yates	1,750′	Gas	8-5/8" casing cemented to surface
Queen	2,800′	Oil or Gas	5-1/2" casing
Bone Spring Carb	7,260′	Oil	5-1/2" casing cemented to surface
Bone Spring Sand	7,560′	Oil	5-1/2" casing cemented to surface

III. Specification for Pressure Control

The 13-3/8" surface pipe will have 2M WP equipment, installed while the 8-5/8" will have 3M WP equipment installed. BOP's to be tested to 500 psi prior to drilling out under surface casing and 2000 psi prior to drilling out intermediate casing. The BOP's will be tested when installed, prior to drilling out of surface and intermediate casing, and once each week. The well control equipment used will comply with API RP 53 specifications. Drawings are attached.

IV. Casing and Cementing Program

A. Casing Program

Depth	Hole Size	Csg. Size	Wt	Grade	Coupling	Type
0 - 500'	17-1/2"	13-3/8"	48#	H-40	STC	Surf.
0 - 2100'	11"	8-5/8"	24#	K-55	STC	Int.
2100-3000'	11"	8-5/8"	24#	S-80	STC	Int.
0 - 5300'	7-7/8"	5-1/2"	17#	K-55	LTC	Prod.
5300-8400'	7-7/8"	5-1/2"	17#	L-80	LTC	Prod.

B. Cementing Program

Casing	Top of Cement	Cement Type	Sacks
Surf.	Surface	Class C w/2% $CaCl_2$	479
Int.	Surface	Lead: Lite w/10% salt	515
		Tail: Class C Neat	390
Prod.	Surface	Lead: 85/15 C/Poz w/4% Gel	691
		Tail: Class "C"	253

V. Drilling Fluids Program

A.

Depth	Hole Size	MW ppg	VIS sec	WL cc/30 min	Comments
0- 500'	17-1/2"	8.5-9.2	35-45	NC	Fresh wtr. spud mud
500-3000'	11"	9.8-10.2	30-32	NC	Brine w/salt gel
3000-7000'	7-7/8"	8.4-8.8	28-30	NC	Cut brine, lime
7000-8400'	7-7/8"	8.6-8.8	30-32	15-20	Cut brine w/salt gel and starch

B. The mud system volume will be approximately 800 barrels.

C. No weighting material should be necessary, but barite will be kept on site.

D. The level of the mud pits will be monitored visually, and a flow rate indicator will be installed.

E. Chemicals kept on site to control a possible H_2S influx are sodium and calcium hydroxide to raise the pH and zinc carbonate as a scavenger.

VI. Formation Evaluation

A. Testing - No drill stem tests anticipted.

B. Logging - the following log runs are anticipated

TD - 3000'	DLL/GR/Cal CNL/LDT
TD - 0'	GR

C. Cores - None anticipated

D. Anticipated Completion Program

1. Run 5-1/2" casing and cement to surface.
2. Pressure test casing to .2 psi/ft.
3. Perforate appropriate pay section of the Bone Spring.
4. Stimulate the formation with acid or a frac job.
5. Flow and/or swab test.
6. If commercial, produce through 2-7/8" tubing.

VII. BHP and Abnormal Conditions

A. BHP at 8400' is expected to be approximately 3210 psi.
B. No abnormal pressures are anticipated.
C. Hydrogen sulfide is present in the Bone Spring formatin. H_2S monitoring equipment will be installed when the surface casing is drilled out.
D. No abnormally high temperatures are anticipated. Bottom hole temperature is approximately 130°F.

VIII. Additional Information

None at this time. Should conditions change which alter any part of this drilling plan, the Bureau of Land Management will be promptly notified.

MEK/rls
WM-FED#5.ATT