

ORyx ENERGY COMPANY
DOUBLE "X" DEEP STATE 16 #1
SEC. 16, T24S, R32E
1990' FEL & 660' FNL
LEA COUNTY, NEW MEXICO

1) GEOLOGIC SURFACE FORMATION: QUATERNARY

2) ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:

RUSTLER	1040	STRAWN LINE	14000+
BASS SALT	4515	ATOKA SH	14155
DELAWARE	4745	ATOKA "C"	14455+
BONE SPRINGS	3508*	UPPER MORROW	14775+
WOLF CAMP	11912*	MID MORROW	15088*
STRAWN MARKER	13959	MID MORROW "B"	15272*
		LOWER MORROW	15747+

3) ESTIMATED DEPTH OF ANTICIPATED WATER, OIL, GAS, OR MINERALS:
FORMATIONS POSSIBLY PRODUCTIVE WITH OIL OR GAS ARE INDICATED
WITH AN ASTERISK (*) IN ABOVE SECTION 2.

4) PROPOSED CASING PROGRAM:

SIZE	CASING SEAT	FOOTAGE	GRADE	WEIGHT & THREAD
13 3/8	500	500	K-55	54.5# ST&C
9 5/8	5000	5000	K-55	36.0# ST&C
7	12200	12200	F-110	26.0# LT&C
4 1/2	15900	3800	S-95	15.1# LT&C
2 7/8		10000	N-80	6.9# HYDRIL CS
2 3/8		3600	N-80	4.7# HYDRIL CS

5) PROPOSED CEMENTING PROGRAM:

13 3/8" CEMENT TO SURFACE WITH 525 SX CLASS "C" + 0.2% C&C + 1/4 FPS CELLOPHANE FLAKES (1.32 YLD, 14.8 PPG)

9 5/8" CEMENT TO SURFACE WITH 1500 SX 65:35:5 CLASS C LITE + 10% SALT + 1/4 PPS CELLOPHANE FLAKES (1.89 YLD, 12.9 PPG) TAIL IN WITH 500 SX CLASS C + 10% SALT (1.35 YLD, 15.0 PPG) TOP OF TAIL CEMENT TO BE AT 4000. EXACT VOLUMES TO BE DETERMINED BY FLUID CALIPER.

7" CEMENT TO 8500' WITH 910 SX 65:35:5 CLASS H LITE + 0.6% FLUID LOSS ADDITIVE. (1.89 YLD, 12.8 PPG) TAIL IN WITH 165 SX CLASS H + 0.3% RETARDER (1.19 YLD, 15.6 PPG) TOP OF TAIL CEMENT TO BE AT 11450. EXACT VOLUMES TO BE DETERMINED BY ELECTRIC CALIPER.

4 1/2" CEMENT TO 11900' WITH 420 SX CLASS H + 0.6% FLUID LOSS ADDITIVE + 0.6% TURBULENCE INDUCER + 0.2% RETARDER + 6% ANTI-MIGRATION ADDITIVE. (1.19 YLD, 15.6 PPG) EXACT VOLUME TO BE DETERMINED BY ELECTRIC CALIPER.

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DEC 6 1989
OCD
HOBBS OFFICE