

ORYX ENERGY COMPANY
DRILLING PROGRAM

J.A.AKEN # 24

DIRECTIONAL: RUN DRIFT TYPE SURVEYS AT 250' AND 500' ON SURFACE HOLE INTERVAL. RUN SURVEYS ON PRODUCTION HOLE EVERY 500' AND ALL BIT TRIPS.

0-500'	250' AND 500'	2	1 / 100'
500'-TD	500' AND BIT TRIPS	4	1 / 100'

WELLHEAD

EQUIPMENT: BRADENHEAD	8-5/8" 2000 PSI WP TYPE 92 SOW CASING HEAD (LARKIN-HINDERLITER)
TUBINGHEAD	WHI-W2 7-1/16" X 3,000 PSI X 5-1/2" 8RD (CAVANAUGH-NATIONAL)
TREE	2-3/8" SINGLE MASTER, SINGLE WING AND ADJUSTABLE CHOKE.

CASING PROGRAM:

CASING SEAT	FEET	SIZE	WT	GRADE	JOINT	DRIFT ID	MAX OD
500'	500'	8-5/8	24	WC-50	ST&C	7.972	9.625
3700'	3700'	5-1/2	15.5	K-55	ST&C	4.825	6.050
TUBING	3000'	2-3/8	4.7	J-55	EUE	1.947	3.063

5-1/2" 15.50/FT USED FOR CASING FRAC WITH MAX SURFACE PRESSURE OF 3500 PSI DURING A 13.0 PPG SAND/FOAM FRAC DOWN CASING.

NOTE: AFTER ARRIVING ON LOCATION, PULL THREAD PROTECTORS OFF AND INSPECT CASING WITH VTI, TP AND FLD. THOROUGHLY CLEAN THREADS BEFOR MAKE-UP. ALL THREADS SHOULD BE DOPED W/OIL CENTER RESEARCH OCR-318 THREAD LUBRICANT.

FLOAT

EQUIPMENT: ON 8-5/8" SURFACE CASING, INSTALL A CENTRALIZER AND A STOP RING 10' ABOVE THE SHOE AND CENTRALIZE EVERY THIRD COLLAR TO SURFACE. (TOTAL OF 5 CENTARLIZERS). RUN INSERT FLOAT AND A TEXAS PATTERN SHOE. RUN ONE (1) SHOE JOINT.

ON 5-1/2" PRODUCTION CASING RUN IN HOLE WITH ONE (1) SHOE JOINT, WITH A JET DOWN FLOAT SHOE AND A FLOAT COLLAR. THREAD LOCK ALL CEMENTING EQUIPMENT. WHILE RUNNING IN HOLE FILL CASING EVERY 20 JOINTS. CENTRALIZE SHOE, MIDDLE OF FIRST TWO JOINTS, AND EVERY 20' THOUGH THE PRODUCTION INTERVALS (SEVEN RIVERS AND QUEEN) USE TWO TURBULATOR TYPE CENTARLIZERS ABOVE AND BELOW EACH PRODUCTION INTERVAL.