

PROPOSED WELL PLAN OUTLINE

WELL NAME **KLEIN FED #1 (BRAVEHEART WEST PROSPECT)**
 LOCATION **2310' FSL 1650' FEL SECT. 11 T-20S R-36E LEA CO.**

Est KB = 3585'

TVD IN 1000'	MD	FORMATION TOPS & TYPE	DRILLING PROBLEMS	TYPE OF FORMATION EVALUATION	HOLE SIZE	CASING SIZE DEPTH	FRAC GRAD	FORMATION PRESSURE GRADIENT	MUD WEIGHT & TYPE	DAYS
0			LOST RETURNS, HOLE CLEANING		14-3/4"			NORMAL	SPUD	
1		RUSTLER 1020' TOP OF SALT 1135'	WASHOUTS IN SALT SECTION		11"	11-3/4", 42#, WC40 ST&C @ 400' CIRC CMT est. 360ex			10 PPG BRINE	
2		YATES 2485' 7 RIVERS 2775'								
3		QUEEN 3241' PENROSE 3343' SAN ANDRES 3445'	LOST CIRCULATION SEEPAGE TO SEVERE	MUD LOGGERS & H2S EQUIP ON BY 3300'		8-5/8", 32#, K-55 STC @ 4000' (150' into S.A.)		Less than 4.3		11
4			POSSIBLE DEVIATION TO TD	GR-SONIC 4000'-400'		CIRC CMT est. 1155 ex			FRESH WATER	
5		GLORIETA 5185'			7-7/8"			NORMAL	BELOW 5100' USE ONLY MIX II AND MAGMA FIBER TO CONTROL LOSSES MW - 8.5-8.8 PPG GEL/SODA ASH @ 6150' OR SOONER TO CONTROL LOSSES. WL < 10CC	
6		BLINEBRY 5750'	LOST CIRCULATION	POSSIBLE DST						
7		TUBB 6255' DRINKARD 6585' ABO 6875'		POSSIBLE DST						
8		WOLFCAMP 7860'				If casing is run: 5 1/2", 17#, K-55 LTC @ 8750'		BHP = 3800 psi		
9		TD 8750'		GR-CAL-SP-DIL-MSFL GR-CAL-LDT-CNL-SONIC ROTARY SWC - 20 CORES VELOCITY SURVEY		CIRC CMT est. 1305 ex				22
10										
11										
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DATE: **NOVEMBER 18 1996**

APPROVED: **ROGER WILLIAMSON**
 DRILLING ENGINEER