

DRILLING PROCEDURE TP-105-B

DATE 11-4-77

INSTRUCTIONS: List on drilling report each lost circulation zone and amount of mud lost. List on Company reports all mud, chemicals, lost circulation material and oil used in drilling mud each tour. Strap drill pipe on first trip under surface and before logging, testing, or coring. Tool pusher will be responsible to obtain and to check all tallies on tubular goods received at well, as well as check accuracy on delivery tickets of other material delivered to well.

DISTRICT AREA
Midland

AREA NO.

LEASE NAME AND WELL NUMBER

FIELD

Phantom Draw Unit #2

Phantom Draw (Wolf Camp) well.

LOCATION

1980' FEL & 2180' FSL Sec. 30, T-26-E, R-31-E

COUNTY/PARISH

STATE

Eddy

New Mexico

SUPERINTENDENT'S SIGNATURE

ENGR. APPROVAL

GEOL. APPROVAL

CASING PROGRAM	STRING	SIZE	LENGTH OF SECTION	WEIGHT	GRADE	THREAD	HOLE SIZE	ALLOWED CEMENT TIME-HRS
	Conductor Pipe	20"	40'	59#	ERW	PEBFW	26"	-
	Surface Casing	13-3/8"	1000'	48#	H40	ST&C 8RD	17 1/2"	12
	Salt String	8-5/8"	4000'	32#	K-55	ST&C 8RD	11"	24
	Production String	5 1/2"	12000'	17#	P-110	LT&C 8RD	7-7/8"	-
	Production Liner	3 1/2"	1200'	10.2#	N-80	NUE 8RD	4-3/4"	-

CEMENT PROGRAM	SEE ATTACHED							

MUD PROGRAM	DEPTH	TYPE	MUD WEIGHT	VISCOSITY	PH	WATER LOSS
	SEE ATTACHED					

FORMATION TOPS	DEVIATION FROM VERTICAL	NOT TO EXCEED	DEGREES PER	FT	NOT TO EXCEED	DEGREES AT TOTAL DEPTH
	DESCRIPTION*	DEPTH	SUB SEA		LOGGING, CORING & TESTING PROGRAM	
	Elevation 3295.0' GL	3327	KB		2 DST's, GR-BHC Sonic from TD	
	Deleware Sand (1 DST)	3857	-625		to top of Dela. Sd. w/GR to	
	Bone Spring (1 DST)	7807	-4575		Surface; GR-Den. - Neutron and	
	Wolfcamp	10,582	-7350		Dual Induction TD to intermediate	
	Wolfcamp Pay Interval	12,382	-9150		Csg. Caliper TD to surf. 4000'	
	Wolfcamp Porosity	12,617	-9385		Computations.	

TOTAL CONTRACT DEPTH	12,000'	MUD SUPPLIER	MECHANICAL RATE OF PENETRATION	YES	NO
			DEVICE REQUIRED	X	

SAMPLE PROCEDURE	10' Drilling Time from surface to TD	EQUIPMENT OR SERVICES MAY BE INSTALLED AT FOLLOWING:		
	2 sets of Samples from 3800' to TD		EQUIPMENT	DEPTH

PROBLEMS AND/OR REMARKS	High pressure Gas Zones in Wolfcamp.

NAME & TITLE	CITY	OFFICE PHONE	RESIDENCE PHONE NUMBER
Carl Sharp - Drilling Foreman	Pecos	214-741-5933	447-3358
Delmer Jones - Drilling Superintendent	Dallas	214-741-5933	214-361-8001
Robert Porter - District Geologist	Midland	915-684-5584	915-694-6709

TYPE POSSIBLE PRODUCTIVE HORIZONS IN CAPITAL LETTERS; OTHER HORIZONS IN LOWER CASE.