GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

Mark R. Lumby

Company	Phillips Petroleum Co.
Operator	Phillips Petroleum Co.
Contractor	Nabors Drilling USA
Rig No.	8
Type	Mobile
Elevation	KB 3115 GR 3104
Location	1980' FNL & 1980' FEL
Sec.	17
Twp.	17 S
Rge.	31 W
County	Eddy
State	New Mexico
Spud Date	6-8-83
Comp. Date	6-18-83
T.D.	5300'
Date	6-18-83
Casing Record	8 5/8" @ 1500'
Drilling Time	Every 10'
Samples	30' to T.D.
Logging Record	DIL, FDC/CNL, BHC Sonic, Dipmeter
Drilling Mud	Chem
Field	Cedar Hills
Formation at T.D.	Morrow
Elevation	3104
Total Depth	5300
Date	6-18-83
Completed as	Plugged & Abandoned
Perforations	
Initial Production	
Remarks	

API NO.	30-015-25776
Lease Name	Cedar Hills Unit
Well No.	2
Footage Location	1980' FNL & 1980' FEL
Sec.	17
Twp.	17 S
Rge.	31 E
County	Eddy
State	New Mexico
Elevation	3104
Total Depth	5300
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REMARKS

LEGEND

Anhydrite | Salt | Sandstone | Shale | Carb ss | Limestone | Coal Lime | Chert | Dolomite

DRILLING TIME IN MINUTES PER FOOT
Rate of Penetration Decrease
5" 10" 15" 20" 30"

DEPTH | CONTACTS | SAMPLE DESCRIPTIONS | % SHOWS | REMARKS

Anhydrite 2167-2197

Base Anhydrite 2198-2227

2200

3300

Glorieta 3398-3432

3400

3500

3600

3700

Yeso 3700-3806

Tubb 3776-3805

Abo 3806-3900

3800

3900

Wolfcamp 4900-5300

4000

Strawn 4010-4074

Atoka 4100-4174

Morrow 4174-4300

4100

Chester 4300-4400

4200

Ste. Genevieve 4400-4500

Miss 4500-4574

Devonian 4574-4700

4400

4500

Silurian 4700-4800

Base 4800-4838

4600

4700

TD 5300'

DATE	DEPTH	SAMPLE DESCRIPTIONS	% SHOWS	REMARKS
		SH, GRY		NO ANY
	3400	LS, TAN, FXN, MOD, VF POROS, MOSAIC, FTR, MS		
		SH, GRY		
		LS, GRY, LT GRY, FVTUF, FRM DOL POR, MOD, MS		
		SH, GRY, SLTY		
		LS, LT GRY, FVTUF, FL HRD, MOD POROS		
		LS, TAN, FXN, VFVTUF, SAC FRM MOSAIC, MOD, SPP, MS		
		LS, TAN, LT GRY, FVTUF, SAC, MOD, SPP, FRM, FP, MS		
	3500	LS, GRY, FVTUF, SDY, LT GRY SHALE, FR FRM SHALE, MS		GAS AT 3500, FLOW CHECK 3492'-3503'
		SH, GRY, LT GRY, SLTY		
		LS, TAN, TAN, FXN, FVTUF, SAC, MOD, FRM, FP, SLT SLTY SHALE, MS		TAN 6-12-13 DALA 8 5229
		SH, GRY, LT GRY, SLTY		
	3600	LS, TAN, FXN, FXN, VFVTUF, SAC, SPP, MS		
		SH, DK GRY, SOFT, FFT WTR		
		LS, DK GRY, FVTUF, FRM, FRM, FP, MS		
		LS, TAN, FXN, FVTUF, SAC, FRM, FP, MS		
		LS, TAN, FXN, FXN, FVTUF, SAC, FRM, FP, MS		
		LS, TAN, VFXN, FXN, FVTUF, SAC, FRM, FP, MS		
		SH, GRY, LT GRY, FSSLT SHALE, SDY, SOFT, MS		MUD CHECK 3515-3526 WT 8.3 CHLOR 2300 VISC 32
	3700	LS, TAN, FXN, FVTUF, SAC, FRM, FP, FRM, SHALE, MS		
		COAL		
		SH, RDC, TAN		
		LS, TAN, FXN, FVTUF, SAC, FRM, FP, FRM, SHALE, MS		
		SH, GRY, GRN		27 TANK SINCE 7PM
		LS, GRY, GRN		DST #1 3806-3876 OPEN 30-30-30-30 IF-WK BLOW BUILD TO 3 1/2" FSI-WK BLOW NO BLOW FP: 42-43-37-115 SIP: 1224-1210 HP: 1731-1740
		LS, GRY, LT GRY, FVTUF, SAC, FRM, FP, MS		
		LS, GRY, LT GRY, FVTUF, SAC, FRM, FP, MS		
		LS, GRY, FSSLT, HRD, SL SDY		
		LS, GRY, LT GRY, FVTUF, SAC, FRM, FP, MS		
		LS, GRY, LT GRY, FVTUF, SAC, FRM, FP, MS		
		LS, GRY, LT GRY, FVTUF, SAC, FRM, FP, MS		
		LS, TAN, FXN