

EXHIBIT 4
CASE 5978

Schlumberger

BOREHOLE COMPENSATED SONIC LOG

COUNTY LEA
FIELD WILDCAT
LOCATION 7608 JV-P HAGOOD #1
WELL
COMPANY BTA OIL PRODUCERS

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BEFORE EXAMINER NUTTER
OIL CONSERVATION COMMISSION
WELL 7608 JV-P HAGOOD #1 NO. 4
FIELD WILDCAT CASE NO. 5978
COUNTY LEA STATE NEW MEXICO

LOCATION 990' FNL & 1980' FEL
API SERIAL NO. SEC. TWP RANGE
25 26-S 35-E

Other Services:
DLL

Permanent Datum: G.L. ; Elev.: 2959
Log Measured From: K.B. 31 Ft. Above Perm. Datum
Drilling Measured From: K.B.

Elev.: K.B. 2990
D.F. 2989
G.L. 2959

Date	10-27-76	3-28-77	4-30-77	
Run No.	ONE	TWO	THREE	
Depth-Driller	13200	18070	19897	
Depth-Logger (Schl.)	13200	18065	19900	
Btm. Log Interval	13196	18062	19897	
Top Log Interval	SURF	13200	18063	
Casing-Driller	13 3/8 @ 5050	9 5/8 @ 13200	7 3/4 @ 18070	@
Casing-Logger		13200	18063	
Bit Size	12 1/4	8 1/2	6 1/2	
Type Fluid in Hole	CUT BRINE	*	BRINE	
Dens.	9	30	14.3	42
Visc.	9	30	9.0	30
pH	9	9	10	
Fluid Loss	ml	9 ml	10 ml	
Source of Sample	PIT	RETURN TANK	PIT	
Rm @ Meas. Temp.	.09 @ 50°F	.062 @ 79°F	.063 @ 75°F	@ °F
Rmf @ Meas. Temp.	.09 @ 50°F	.046 @ 79°F	.063 @ 75°F	@ °F
Rmc @ Meas. Temp.	@ °F	.093 @ 79°F	@ °F	@ °F
Source: Rmf Rmc	M	M C	M	
Rm @ BHT	.03 @ 162°F	.023 @ 215°F	.019 @ 260°F	@ °F
Circulation Stopped	1200	1200	0700	
Logger on Bottom	2030	1915	1600	
Max. Rec. Temp.	162 °F	215 °F	260 °F	°F
Equip. Location	7732 HOBBS	7630 MONA	7775 MONA	
Recorded By	MULLEN	CONATSER	CLOUD	
Witnessed By Mr.	COMSTOCK	SALMON	SALMON	