Schlumberger — **BOREHOLE COMPENSATED SONIC LOG**

COMPANY	AMOCO PRODUCTION COMPANY
WELL	OLD INDIAN DRAW UNIT #4
FIELD	INDIAN DRAW DELAWARE
COUNTY	EDDY STATE NEW MEXICO
LOCATION:	1980' FSL, & 660' FEL,
Sec. 18 Twp. 22-S Rge. 28-E	
Other Services:	FDC, DLL
Elev.: K.B. 3096 D.F. 3095 G.L. 3083	
G.L.	
K.B.	
D.F.	
Permanent Datum:	
Log Measured From	K.B. 13 Ft. Above Perm. Datum
Drilling Measured From	K.B.

Date	5-24-75				
Run No.	ONE				
Depth-Driller	3450				
Depth-Logger	3459				
Btm. Log Interval	3457				
Top Log Interval	2200				
Casing-Driller	8 5/8 @ 400	@			
Casing-Logger					
Bit Size	7 7/8				
Type Fluid in Hole	SALT GEL				
Dens. / Visc.	10.3 / 32				
pH / Fluid Loss	8 / 27.5 ml	ml / ml			
Source of Sample	PIT				
R_m @ Meas. Temp.	.047 @ 70 °F	@ °F	@ °F	@ °F	
R_{mf} @ Meas. Temp.	.035 @ 70 °F	@ °F	@ °F	@ °F	
R_{mc} @ Meas. Temp.	.070 @ 70 °F	@ °F	@ °F	@ °F	
Source: R_{mf} / R_{mc}	M / IC				
R_m @ BHT	.035 @ 92 °F	@ °F	@ °F	@ °F	
Circulation Stopped	2100; 5-23				
Max. Rec. Temp.	92 °F	°F	°F	°F	°F
Equip. / Location	7627 / HOBBS				
Recorded By	WILSON, LAKE				
Witnessed By	SMITH				

FOLD HERE — The well name, location and borehole reference data were furnished by the customer.

Run No.	ONE				
Service Order No.	41121				
Fluid Level					

SCALE CHANGES

Type Log	Depth	Scale Up Hole	Scale Down Hole

EQUIPMENT DATA

Sonic Panel No.	483
Sonic Cart No.	
Sonic Sonde No.	
Mem. Panel No.	573
G.R. Cart. No.	522
G.R. Panel No.	256
Caliper No.	
TTR No.	
Centralizers: No.	CME-H VCD-D
Type	
Standoffs: No.	
Type	
Time Const.-Sec.	1
Speed - F.P.M.	60

LOGGING DATA

Porosity Selectors Δt_m	Δt_f	Cp	Ø Scale	Depth From	To

REMARKS

CALIBRATION DATA

GR	BKG. CPS	80
	Source CPS	520
	Tc Sec	CAL

Velocity (ft/sec) = 1,000,000 / Interval Transit Time (microseconds per foot)

All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to Clause 7 of our General Terms and Conditions as set out in our current Price Schedule.

Schlumberger — **BOREHOLE COMPENSATED SONIC LOG**

COMPANY AMOCO PROD. CO.
WELL OLD INDIAN DRAW UNIT #4
FIELD or LOCATION INDIAN DRAW DELA.
COUNTY EDDY

COMPANY AMOCO PRODUCTION COMPANY
WELL OLD INDIAN DRAW UNIT #4
FIELD INDIAN DRAW DELAWARE
COUNTY EDDY STATE NEW MEXICO
LOCATION: 1980' FSL, & 660' FEL,
Sec. 18 Twp. 22-S Rge. 28-E
Other Services: FDC, DLL
Elev.: K.B. 3096 D.F. 3095 G.L. 3083
G.L.
K.B.
D.F.
Permanent Datum:
Log Measured From K.B. 13 Ft. Above Perm. Datum
Drilling Measured From K.B.

Date	5-24-75				
Run No.	ONE				
Depth-Driller	3450				
Depth-Logger	3459				
Btm. Log Interval	3457				
Top Log Interval	2200				
Casing-Driller	8 5/8 @ 400	@			
Casing-Logger					
Bit Size	7 7/8				
Type Fluid in Hole	SALT GEL				
Dens. / Visc.	10.3 / 32				
pH / Fluid Loss	8 / 27.5 ml	ml / ml			
Source of Sample	PIT				
R_m @ Meas. Temp.	.047 @ 70 °F	@ °F	@ °F	@ °F	
R_{mf} @ Meas. Temp.	.035 @ 70 °F	@ °F	@ °F	@ °F	
R_{mc} @ Meas. Temp.	.070 @ 70 °F	@ °F	@ °F	@ °F	
Source: R_{mf} / R_{mc}	M / IC				
R_m @ BHT	.035 @ 92 °F	@ °F	@ °F	@ °F	
Circulation Stopped	2100; 5-23				
Max. Rec. Temp.	92 °F	°F	°F	°F	°F
Equip. / Location	7627 / HOBBS				
Recorded By	WILSON, LAKE				
Witnessed By	SMITH				

FOLD HERE — The well name, location and borehole reference data were furnished by the customer.

Run No.	ONE				
Service Order No.	41121				
Fluid Level					

SCALE CHANGES

Type Log	Depth	Scale Up Hole	Scale Down Hole

EQUIPMENT DATA

Sonic Panel No.	483
Sonic Cart No.	
Sonic Sonde No.	
Mem. Panel No.	573
G.R. Cart. No.	522
G.R. Panel No.	256
Caliper No.	
TTR No.	
Centralizers: No.	CME-H VCD-D
Type	
Standoffs: No.	
Type	
Time Const.-Sec.	1
Speed - F.P.M.	60

LOGGING DATA

Porosity Selectors Δt_m	Δt_f	Cp	Ø Scale	Depth From	To

REMARKS

CALIBRATION DATA

GR	BKG. CPS	80
	Source CPS	520
	Tc Sec	CAL

Velocity (ft/sec) = 1,000,000 / Interval Transit Time (microseconds per foot)

All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to Clause 7 of our General Terms and Conditions as set out in our current Price Schedule.