![HALLIBURTON LOGGING SERVICES, INC.]

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HALLIBURTON LOGGING SERVICES, INC.

JUL 28 1989

SPECTRAL DENSITY DUAL SPACED NEUTRON II LOG

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COMPANY	AMERICAN INTERNATIONAL ENERGY CORPORATION
WELL	OSAGE NO. 17-1
FIELD	SOUTH KAW
COUNTY	OSAGE
STATE	OK
API NO.	N/A
LOCATION	NW/4 350FT FNL AND 960FT FEL
OTHER SERVICES	DIL ML
SEC. 17	TWP 25N RGE 04E
PERMANENT DATUM	G.L. ELEV. 1065.2
LOG MEASURED FROM	K.B. 9FT. ABOVE PERM.DATUM
DRILLING MEASURED FROM	K.B.
ELEV.: K.B.	1074.2
D.F.	N/A
G.L.	1065.2

DATE	06/19/89		
RUN NO.	ONE		
DEPTH-DRILLER	5000FT		
DEPTH- LOGGER	4988FT		
BTM. LOG INTER.	4954FT		
TOP LOG INTER.	306FT		
CASING-DRILLER	8.625@300FT	@	@
CASING- LOGGER	309FT		
BIT SIZE	7.875 IN.		
TYPE FLUID IN HOLE	W.B.MUD		
DENS. ¦ VISC	9.3 ¦60	-- ¦ --	-- ¦ --
PH ¦ FLUID LOSS	10 ¦8.0	-- ¦ --	-- ¦ --
SOURCE OF SAMPLE	CIRCULATED		
RM @ MEAS. TEMP.	1.65 @76	@	@
RMF @ MEAS. TEMP.	1.4 @76	@	@
RMC @ MEAS. TEMP.	2.1 @76	@	@
SOURCE RMF ¦ RMC	MEAS.¦MEAS.	-- ¦ --	-- ¦ --
RM @ BHT	.9 @130	@	@
TIME SINCE CIRC.	3HRS		
TIME ON BOTTOM	21:48HRS		
MAX. REC. TEMP.	130 @T.D.	@	@
EQUIP. ¦ LOCATION	51549¦SHWNE	-- ¦	-- ¦
RECORDED BY	NESTER		
WITNESSED BY	SCHWEIKHARDT,CARLSON	FALKINGHAM	

Fold Here

Service Ticket No.: 259017 API Serial No.: N/A PGM Version: 2.00

Change in Mud Type or Additional Samples		
Date/Sample No.	/ / ¦	/ / ¦
Depth-Driller		
Type Fluid in Hole		
Dens. ¦ Visc.	¦	¦
pH. ¦ Fluid Loss	¦	¦
Source of Sample		
Rm @ Meas.Temp.	@	@
Rmf @ Meas.Temp.	@	@
Rmc @ Meas.Temp.	@	@
Source: Rmf¦Rmc	¦	¦
Rm @ BHT	@	@
Rmf @ BHT	@	@
Rmc @ BHT	@	@

RESISTIVITY SCALE CHANGES

Type Log	Depth	Scale Up Hole	Scale Down Hole

RESISTIVITY EQUIPMENT DATA

Run No	Tool Type & No	Pad Type	Tool Pos.	Other

EQUIPMENT DATA

GAMMA		ACOUSTIC		DENSITY		NEUTRON	
Run No.	ONE	Run No.		Run No.	ONE	Run No.	ONE
Serial No.	108560	Serial No.		Serial No.	701	Serial No.	108706
Model No.	NGRT-A	Model No.		Model No.	SDLT-A	Model No.	DSNT-A
Diameter	3.625"	No.of Cent.		Diameter	4.5"	Diameter	3.625"
Detector Model No.	DITS	Spacing		Log Type	SDL	Log Type	DSNII
Type	SCINT			Source Type	CS 137	Source Type	AmBe
Length	4 IN.	LSA		Serial No.	SDL026	Serial No.	DSN89
Distance To Source	N/A	FWDA		Strength	1.5 CI	Strength	19 CI

LOGGING DATA

GENERAL				GAMMA		ACOUSTIC			DENSITY			NEUTRON		
Run	Depth		Speed	Scale		Scale			Scale			Scale		
No.	From	To	Ft/Min	L	R	L	R	Matrix	L	R	Matrix	L	R	Matrix
ONE	4985	309	AS IND.	0	150				45.0	-15.	2.71	45.0	-15.	LIME

Remarks: ALL LOGS RAN IN COMBINATION. TOTAL CHLORIDE CONCENTRATION WAS 1400 PPM.
AHV CALCULATED FOR 4.5 IN. CASING.

TODAYS OPERATORS ARE WILLIAMS AND WOODS. SHAWNEE HLS 405-273-4408.

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Q SHORT		SDL PE			
-4.5	0.5	0	10		
Q LONG		PE QUALITY		TENSION	
4.5	-0.5	-1	9	10000 POUNDS	0
GAMMA		DPHI			
0 API	150	45	LS PU		-15
CALIPER		NPHI			
6 INCHES	16	45	LS PU		-15