HALLIBURTON LOGGING SERVICES, INC.

1" = 100'

COMPANY _____
WELL _____
FIELD _____
COUNTY _____ STATE _____

DUAL INDUCTION LATEROLOG

COMPANY INDEPENDENCE RESOURCES COMPANY
WELL EXXON FEE #2-1 (27-6)
FIELD MIDST
COUNTY GARFIELD STATE COLORADO
API No. 16-045-09702-00-00
Location 1980' FNL & 2080' FWL OF SEC. 27-T6S-R91W
Other Services

Run No.	ONE		
Date	08-10-91		
Depth-Driller	11,000'		
Btm. Log Interval	11,000' (MD)		
Top Log Interval	2,000' (MD)		
Casing-Driller	9 5/8" @ 2,000' (MD)	@	@
Casing-Logger	9 5/8" @ 2,000' (MD)	@	@
Bit Size	8 3/4"		
Type Fluid in Hole	POLYMER		
Dens. / Visc.	10.0 / 34		
pH / Fluid Loss	9.0 / 6.0 ML	/	/
Source of Sample	FLOWLINE		
R_m @ Meas. Temp.	2.7 @ 64 °F	@ °F	@ °F
R_{mf} @ Meas. Temp.	2.4 @ 63 °F	@ °F	@ °F
R_{mc} @ Meas. Temp.	3.25 @ 62 °F	@ °F	@ °F
Source R_{mf} / R_{mc}	MEAS / CALC	/	/
R_m @ BHT	2.7 @ 102 °F	@ °F	@ °F
R_{mf} @ BHT	2.4 @ 102 °F	@ °F	@ °F
R_{mc} @ BHT	3.25 @ 102 °F	@ °F	@ °F
Time Since Circ.	3.25 HOURS		
Time On Bottom	11:15		
Max. Rec. Temp.	102 °F	@ °F	@ °F
Equip. Location	16835		
Recorded By	T. HAMILTON		
Witnessed By	VOLKMANN		

Permanent Datum GL Elev. 4,802'
Log Measured From KB 18' Above Perm. Datum
Drilling Measured From GL

Elev. K.B.	4,820'		
G.L.	4,802'		
D.F.	4,817'		

Sec. 27 Twp. 6S Rge. 96W

Fold Here

Part Number 26000

Service Ticket No.: 1-68247 API Serial No. PGM Version:

Change in Mud Type or Additional Samples

	Sample No.				
Date					
Depth—Driller					
Type Fluid in Hole					
Dens. / Visc.					
pH / Fluid Loss					
Source of Sample					
R_m @ Meas. Temp.		@ °F		@ °F	
R_{mf} @ Meas. Temp.		@ °F		@ °F	
R_{mc} @ Meas. Temp.		@ °F		@ °F	
Source R_{mf} / R_{mc}		/		/	
R_m @ BHT		@ °F		@ °F	
R_{mf} @ BHT		@ °F		@ °F	
R_{mc} @ BHT		@ °F		@ °F	

RESISTIVITY / PWA SCALE CHANGES

Type Log	Depth	Scale Up Hole	Scale Down Hole

COMPUTED FROM: a ____ m ____

RESISTIVITY EQUIPMENT DATA

Run No.	Tool Type and No.	Pad Type	Tool Position	Other
ONE	DIL, SC-4097		INDU	

Borehole Corrections: medium ____ deep ____

EQUIPMENT DATA

GAMMA		ACOUSTIC		DENSITY		NEUTRON	
Run No.	ONE	Run No.	ONE	Run No.		Run No.	
Serial No.	C-703	Serial No.	C-705	Serial No.		Serial No.	
Model No.	NA	Model No.	BA	Model No.		Model No.	
Diameter	3.38"	No. of Cent.	2	Diameter		Diameter	
Detector Model No.	NA	Spacing	TOP	Log Type		Log Type	
Type	SCINT		BOTTOM	Source Type		Source Type	
Length	7.5'	LSA	☐ Yes ☐ No	Serial No.		Serial No.	
Distance to Source	NA	FWDA	☐ Yes ☐ No	Strength		Strength	

LOGGING DATA

Run No.	Depths From	Depths To	Speed Ft./Min.	GAMMA Scale L	GAMMA Scale R	ACOUSTIC Scale L	ACOUSTIC Scale R	ACOUSTIC Matrix	DENSITY Scale L	DENSITY Scale R	DENSITY Matrix	NEUTRON Scale L	NEUTRON Scale R	NEUTRON Matrix
ONE	TD	CSG	45	0	150	175	75	55.6						

x = ____ m = ____ Δt_{ma} = ____ Δt_f = ____ ρ_f = ____

REMARKS: TAYLOR DRILLING
DUE TO TIGHT HOLE CONDITIONS, DID NOT RUN STANDOFFS. DISCUSSED WITH CLIENT. SP SPIKE AT 2720' IS DUE TO TURNING OF POWER TO GR.

CASED HOLE PARAMETERS

	From	To
Bit Size		
Csg. O.D.		
Csg. Wt.