Schlumberger

COMPENSATED NEUTRON-FORMATION DENSITY

COMPANY	AMERICAN QUASAR PETROLEUM CO.
WELL	ADOBE FEDERAL 19-1
FIELD	WILDCAT
COUNTY	LINCOLN
STATE	NEVADA
LOCATION	NE SW 1980' FSL 1980' FWL
SEC.	19
TWP	2N
RANGE	60E
Other Services	DLL/MSFL, BHC/GR, DIPMETER/GR, HDT

Permanent Datum: GL ; Elev.: 4990
Log Measured From KB 22 Ft. Above Perm. Datum
Drilling Measured From KB
Elev.: K.B. 5012 D.F. G.L. 4990

Date	10/9/79
Run No.	ONE
Depth–Driller	7706
Depth–Logger	7690
Btm. Log Interval	7688
Top Log Interval	5750
Casing–Driller	9 5/8 @ 2670
Casing–Logger	2669
Bit Size	8 3/4
Type Fluid in Hole	FGM
Dens. / Visc.	8.9 / 50
pH / Fluid Loss	10.0 / 12.6 ml
Source of Sample	MUD TANK
Rm @ Meas. Temp.	4.56 @ 58 °F
Rmf @ Meas. Temp.	3.75 @ 58 °F
Rmc @ Meas. Temp.	6.84 @ 58 °F
Source: Rmf / Rmc	M / C
Rm @ BHT	2.24 @ 120 °F
Circulation Stopped	0500
Logger on Bottom	1900
Max. Rec. Temp.	120 °F
Equip. / Location	5139 VERNAL
Recorded By	GALES
Witnessed By	SEELEY/SYLAR

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

RUN NO.	ONE
Service Order No.	15002
Fluid Level	FULL
Salinity, PPM Cl.	150
Speed - F.P.M.	30

EQUIPMENT DATA

Dens. Panel	472
Dens. Cart.	76
Dens. Skid.	207
Dens. Sonde	53
Dens. Source	5006
Dens. Calibrator	1140
Neut. Panel	472
Neut. Cart.	1206
Neut. Source	1229
Neut. Calibrator	1186
GR Cart.	1463
Memorizer Panel	CSU
Tape Recorder (TTR)	CSU
Depth Encoder (DRE)	CSU
Pressure Wheel (CPW)	CSU
Centralizer: Type	BOW SPRING
No.	1
Standoffs, S.O. - Inches	--

CALIBRATION DATA

GR	BKG. CPS	93.6
	Source CPS	405.6
	Sens. - Cal	150
	T.C. - Cal	AUTO
CNL	Short Spacing - Before Log	2576
	Long Spacing - Before Log	1082
	Short Spacing - After Log	2562
	Long Spacing - After Log	1070
FDC	P - Before Log	400.5
	P - After Log	650
		438.4
		638.6

REMARKS:

LOGGING DATA

DEPTH Top	DEPTH Bottom	CNP Porosity Scale	CNP Matrix	Auto Corr. or Hole Size Setting	FDC Porosity Scale	FDC Grain Density	FDC Liquid Density	FDC Hole Fluid	GR Sens. Logged	GR T.C.	GR Zero Div. Left	GR Scale per 100 Div.
5750	7688	20/TK	LIME	AUTO	20/TK	2.71	1.00	10	150	2	0	150

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 4 of our General Terms and Conditions as set out in our current Price Schedule.

PARAMETERS

NAME	UNIT	VALUE	NAME	UNIT	VALUE	NAME	UNIT	VALUE
DD		0.0	FPHI		PHIX			

0.0	GR (GAPI)	150.0
6.000	CALI (IN)	16.00
150.0	GR (GAPI)	300.0
0.3000	DPHI ( )	-0.100
0.3000	NPHI ( )	-0.100
0.7000	NPHI ( )	0.3000
10000.	TENS (LB)	0.0

PARAMETERS

NAME	UNIT	VALUE	NAME	UNIT	VALUE	NAME	UNIT	VALUE
DD		0.0	FPHI		PHIX			

0.0	GR (GAPI)	150.0
6.000	CALI (IN)	16.00
150.0	GR (GAPI)	300.0
2.000	RHOB (G/C3)	3.000
2.000	RO (OHMM)	20000.
-0.250	DRHO (G/C3)	0.2500

AFTER SURVEY TOOL CHECK SUMMARY

PERFORMED: 79/10/09
PROGRAM FILE: NUC (VERSION 14.4 00/00/00)

CNTA TOOL CHECK

	JIG BEFORE	JIG AFTER
NRAT	2.15	2.16

POROSITY CHANGE (LIME): 0.001

PGTE TOOL CHECK

	JIG BEFORE	JIG AFTER	UNITS
FFDC	337	335	CPS
NFDC	528	528	CPS

BEFORE SURVEY CALIBRATION SUMMARY

PERFORMED: 79/10/09
PROGRAM FILE: NUC (VERSION 14.4 00/00/00)

SGTE DETECTOR CALIBRATION SUMMARY

	MEASURED BKGD	MEASURED JIG	CALIBRATED	UNITS
GR	46	202	165	GAPI

CNTA DETECTOR CALIBRATION SUMMARY

	INPUT	TANK CALIBRATED	JIG MEASURED	JIG CALIBRATED
NRAT	0.0	0.0	2.38	2.15

PGTE DETECTOR CALIBRATION SUMMARY

	INPUT	BLOCK CALIBRATED	JIG MEASURED	JIG CALIBRATED	UNITS
FFDC	0	0	400	337	CPS
NFDC	0	0	650	528	CPS

PGTE CALIPER CALIBRATION SUMMARY

	MEASURED SMALL	MEASURED LARGE	CALIBRATED SMALL	CALIBRATED LARGE	UNITS
CALI	7.1	10.1	8.0	12.0	IN

CALIBRATION RECORD

COMPANY	
WELL	ADOBE FEDERAL 19-1
FIELD	WILDCAT
COUNTY	LINCOLN
STATE	NEVADA
SCHL. FR	
SCHL. TD	7690
DRLR. TD	7706
Elev.: KB	5012
DF	
GL	4990