Schlumberger

COMPENSATED NEUTRON - GR

COMPANY	CONOCO, INC
WELL	INJECTOR #1
FIELD	PROPANE CAVERN
COUNTY	LAWRENCE
STATE	MISSOURI

FINAL PRINT

COUNTY	LAWRENCE
FIELD	PROPANE CAVERN
LOCATION	
WELL	INJECTOR #1
COMPANY	CONOCO, INC

API SERIAL NO.		SECT.	TWP.	RANGE	Other Services: HRDT
Elev.: K.B. 1318 ft	D.F.	G.L.			

Permanent datum	GL	Elevation	1318 TOP
Log Measured from	KB 10 ft above Perm. Datum		
Drilling Measured from	KB		

Date	08/11/27		
Run No.	ONE		
Depth-Driller	2974		
Depth-Logger	2972		
Bottom Log Interval	2972		
Top Log Interval	0		
Casing-Driller	13 3/8 @ 0	9 5/8 @ 0	
Casing-Logger	0	0	
Bit Size	17 1/2	8 1/2	
Type Fluid in Hole	FRESH WATER		
Density			
Viscosity			
Fluid Level	FULL		
Max. Rec. Temp.			
Estimated Bottom Hole Temp.			
Operating Rig Time			
Recorded By	JIM FOWLER		
Witnessed By	DAN BROWNING		

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.

Run No.	ONE		
Service Order No.	95877		
Drilling Fluid Level	2007		
Salinity			
RM @ BHT	0	0	
RMF @ BHT	0	0	
Logging Speed	1900 FT/HR		
EQUIPMENT DATA			
Tool Number 1	CNC-HD 078		
Tool Number 2	CNH-AB 369		
Tool Number 3			
Tool Number 4			
Tool Number 5			
Tool Number 6			
Tool Number 7			
Tool Number 8			
Tool Number 9			
Tool Number 10			
Tool Number 11			
Tool Number 12			
REMARKS:			

AFTER SURVEY TOOL CHECK SUMMARY

PERFORMED: 00- -1900 03:28
PROGRAM FILE: LDT (VERSION 32.2 08/11/27 08/11/16)

CMTH TOOL CHECK

	INPUT	BEFORE JIG	AFTER JIG
CMTC	2974.75	2949.21	
CFTC	1253.77	1244.85	

CHANGE IN THERMAL POROSITY AT 20 PU IS -.050 PU

BEFORE SURVEY: BACK: 13-SEP-1989 10:57 JIG: 13-SEP-1989 11:02
AFTER SURVEY CHECK: BACK: 13-SEP-1989 11:55 JIG: 13-SEP-1989 12:00

GR (GAPI)		NPHI	
0.0	150.00	.70000	.30000
GR (GAPI)		NPHI	
150.00	300.00	.30000	-.1000

CASED SECTION

CP 32.2 FILE 5 00- -1900 00:48

5"/100'

5"/100'

CP 32.2 FILE 5 00- -1900 00:39

GR (GAPI)		NPHI	
0.0	150.00	.70000	.30000
GR (GAPI)		NPHI	
150.00	300.00	.30000	-.1000

SENSOR MEASURE POINT TO TOOL ZERO

CFTC 2.8 FEET GR 11.8 FEET
TENS -.7 FEET CNTC 2.3 FEET
THRA 3.3 FEET

PARAMETERS

NAME	VALUE	UNIT	NAME	VALUE	UNIT
TD	345.000	F	MATR	LIME	
HC	BS		NPDC	0	
HSCO	YES		SDCO	NO	
MCCO	NO		BSCO	NO	
FSCO	NO		MWCO	NO	
PTCO	NO		SDAT	SDCN	
MCOR	NATU		SDCN	.500000	IN
FSAL	-50000.0	PPM	ANGL	0.0	DEG
GGR2	.0100000	DF/F	BHFL	WATE	
BS	8.00000	IN	BHS	CASE	

GR (GAPI)		NPHI	
0.0	150.00	.70000	.30000
GR (GAPI)		NPHI	
150.00	300.00	.30000	-.1000

CP 32.2 FILE 1 00- -1900 02:40

INPUT FILE(S) DATA ACQUIRED
1 15-SEP-1989 13:12
2 NA

5"/100'

5"/100'

CP 32.2 FILE 1 00- -1900 02:47

INPUT FILE(S) DATA ACQUIRED
1 15-SEP-1989 13:06
2 NA

GR (GAPI)		NPHI	
0.0	150.00	.70000	.30000
GR (GAPI)		NPHI	
150.00	300.00	.30000	-.1000

PARAMETERS

NAME	VALUE	UNIT	NAME	VALUE	UNIT
PP	NORM		DD	0.0	F
DDZ	0.0	F	TD	345.000	F
MATR	LIME		HC	BS	
NPDC	0		HSCO	YES	
SDCO	NO				
BSCO	NO				
MCCO	NO				
MWCO	NO				
SDAT	SDCN				
SDCN	.500000	IN	MCOR	NATU	
ANGL	0.0	DEG	FSAL	-50000.0	PPM
BHFL	WATE		GGR2	.0100000	DF/F
			BS	6.00000	IN