2-inch

Schlumberger

DUAL INDUCTION-SFL-SONIC

WITH LINEAR CORRELATION LOG

COUNTY	COLUMBIA
FIELD	MIST
LOCATION	1385'E AND 274'S
WELL	"FISHHAWK/WILSON" #11A-5-65
COMPANY	NAHAMA AND WEAGANT ENERGY CO

COMPANY NAHAMA AND WEAGANT ENERGY CO.

WELL "FISHHAWK/WILSON" #11A-5-65

FIELD MIST

COUNTY COLUMBIA **STATE** OREGON

LOCATION	1385'E AND 274'S FROM NW CORNER			Other Services: DIL-BHC GR SHDT
API SERIAL NO. 36-009-00296	SECT. 5	TWP. 6N	RANGE 5W	

Permanent Datum	GL	Elev.	604.0 F	Elev.: K.B.615.0 F
Log Measured From	KB	11.0 F	above Perm. Datum	D.F.
Drilling Measured From	KB			G.L.604.0 F

Date	19-OCT-1992		
Run No.	ONE		
Depth Driller	2765.0 F		
Depth Logger (Schl.)	2760.0 F		
Btm. Log Interval	2754.0 F		
Top Log Interval	508.0 F		
Casing-Driller	8 5/8" @ 509.0 F	@	@
Casing-Logger	508.0 F		
Bit Size	7 7/8" @ 2765.0 F	@	@
Type Fluid in Hole	GEL DRISPAC		
Dens. / Visc.	9.60 LB/G / 40.0 S		
pH / Fld. Loss	8.0 / 6.0 C3		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp.	2.280 OHMM @ 79.0 DEGF	@	
Rmf @ Meas. Temp.	3.530 OHMM @ 64.0 DEGF	@	
Rmc @ Meas. Temp.	2.130 OHMM @ 64.0 DEGF	@	
Source: Rmf / Rmc	MEASURED / MEASURED		
Rm @ BHT	1.904 OHMM @ 96.0 DEGF	@	
TIME Circulation Ended	16:00 10-19		
TIME Logger on Bottom	19:42 10-19		
Max. Rec. Temp.	96.0 DEGF		
Equip. / Location	8504 / SACRAMENTO		
Recorded By	SCOTT PILCH		
Witnessed By	LUCAS / PINOTTI		

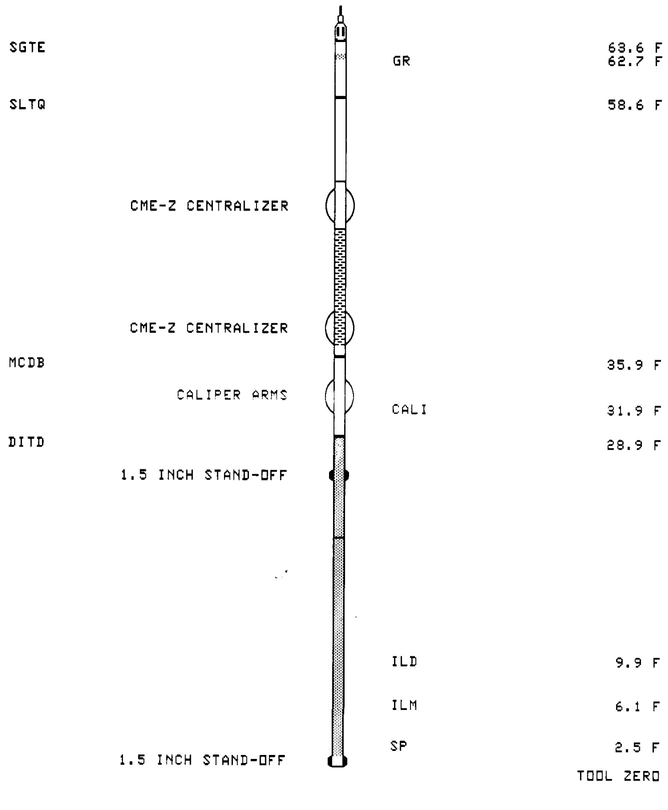
The well name, location and borehole reference data were furnished by the customer.

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 interpretations 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.	595070		
Drilling Fluid Level	5.0 F		
Salinity	800.0 PPM		
Rmf @ BHT	2.433 OHMM @ 96.0 DEGF		@
Rmo @ BHT	1.468 OHMM @ 96.0 DEGF		@
Logging Speed	3600.0 F/HR		
EQUIPMENT DATA			
Tool Number 1	DIS-EC 298		
Tool Number 2	DIC-DA 1078		
Tool Number 3	MCD-DA 1237		
Tool Number 4	SLS-WA 1464		
Tool Number 5	SLC-MA 114		
Tool Number 6	SGC-JC 4148		
Tool Number 7	IEM-BD 304		
Tool Number 8	SLM-DA 428		
Tool Number 9	NLM-BC 418		
Tool Number 10			
Tool Number 11			
Tool Number 12			

REMARKS:

LOGGING TOOL STRING SKETCH



TOTAL TOOL STRING LENGTH IS 66.6 F.
TOTAL TOOL STRING WEIGHT IS 957. LB IN AIR.

MAIN LOG

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ACCUMULATED INTEGRATION VALUES SUMMARY:

Integrated Hole Volume:   756.700 F3     FROM 2760.00 F     TO 509.000 F
Integrated Cement Volume: 508.082 F3     FROM 2760.00 F     TO 509.000 F
  (ASSUMING 4.50000 IN    O.D. CASING)
Integrated Transit Time:  .282961 S      FROM 2760.00 F     TO 509.000 F
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EVENT MARK SUMMARY:

OUTPUT                        INTERVAL        DEPTH TRACK
                              BETWEEN PIPS    EDGE

Integrated Transit Time       .00100000 S     RIGHT EDGE
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		0.0	ILD(OHMM) 30.000		
-100.0	SP(MV) 0.0	0.0	SFLA(OHMM) 6.0000	1000.0	CILD(MM/M) 0.0
0.0	GR(GAPI) 150.00	0.0	SFLA(OHMM) 30.000	175.00	DT(US/F) 75.000

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CP 32.6        FILE   18      19-OCT-1992 20:40

               INPUT FILE(S)  CREATION DATE
                    11        19-OCT-1992 19:40
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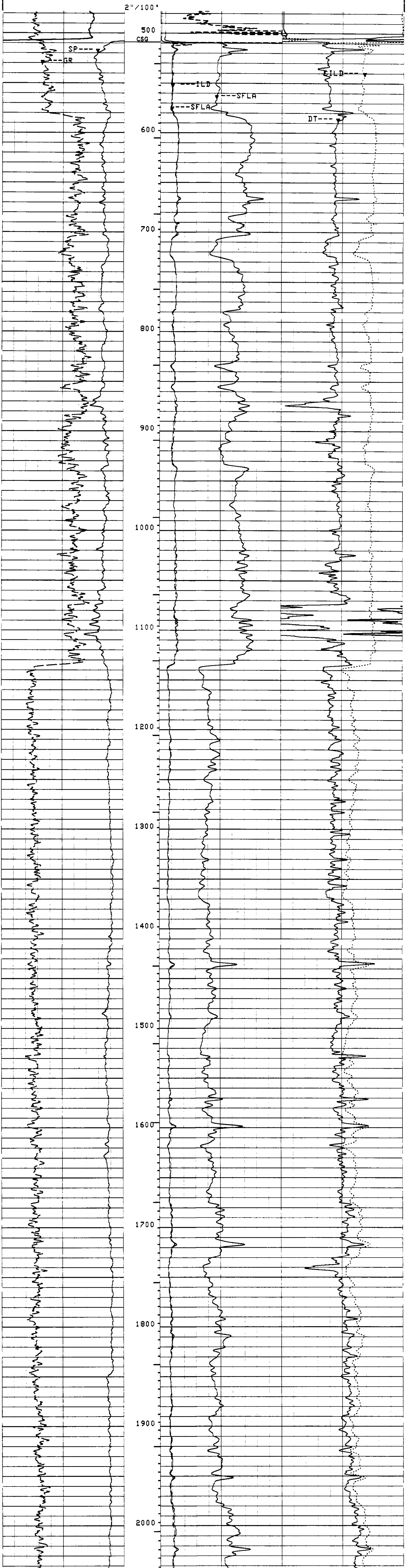

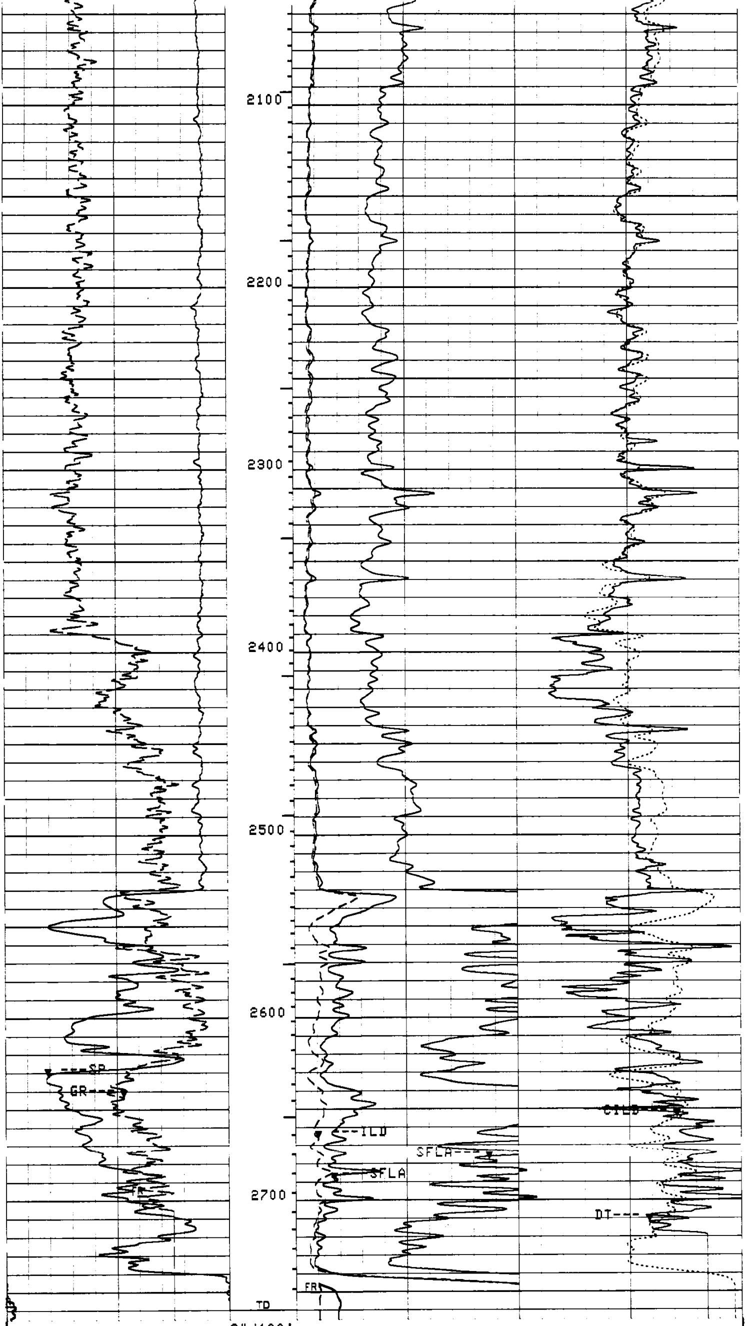

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CP 32.6            FILE    18        19-OCT-1992 20:29

                   INPUT FILE(S)     CREATION DATE
                         11          19-OCT-1992 19:40
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SP(MV)		ILD(OHMM)	
		0.0 30.000	
-100.0 0.0		SFLA(OHMM) 0.0 6.0000	CILD(MM/M) 1000.0 0.0
GR(GAPI) 0.0 150.00		SFLA(OHMM) 0.0 30.000	DT(US/F) 175.00 75.000

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                 SENSOR MEASURE POINT TO TOOL ZERO

         SRAT 41.7   FEET                    AMPL 44.1   FEET
         CBFS 43.1   FEET                    CBL  44.1   FEET
         TT2  44.1   FEET                    TT1  43.1   FEET
         TT4  39.3   FEET                    TT3  40.3   FEET
         TT   44.1   FEET                    T0   44.1   FEET
         CBSL 44.1   FEET                    TTSL 44.1   FEET
         CALI 31.9   FEET                    GR   62.7   FEET
         ILM   6.1   FEET                    ILD   9.9   FEET
         SP    2.5   FEET                    SFL   6.8   FEET
         TENS  2.5   FEET                    SPAR  2.5   FEET
         NOIS  2.5   FEET
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                          PARAMETERS

             PARAMETER                             VALUE        UNIT

   SMB  - Sonic Memory Board                      DISA
   TOCA - T0 Correction Status                    DISA
   RATE - Firing Rate                             15           HZ
   DG   - Downhole Gain                           /5
   DETE - Detection                               E2
   AMPL - Sonic Amplitude                         2
   CBL  - Cement Bond Log Amplitude               UT
   WFM  - Waveform Mode                           1
   SS   - Sweep Speed                             FAST
   TOD  - T0 Delay                                DISA
   DTF  - Delta-T Fluid                           189.000      US/F
   DTM  - Delta-T Matrix                          56.0000      US/F
   CDTS - Correction for Delta-T Shale, Empirical 100.000
   SPFS - Sonic Porosity Formula Select           R-H
   PP   - Playback Processing                     NORM
   DO   - Depth Offset for Logical Unit LI1       0.0          F
   WMUD - Weight of Mud                           9.60000      LB/G
   MSEC - Medium Sonde Error Correction           5.90000      MM/M
   SBR  - Shoulder Bed Resistivity                1.00000      OHMM
   DSEC - Deep Sonde Error Correction             6.60000      MM/M
   FCD  - Future Casing Diameter                  4.50000      IN
   NCJT - NGT Calibration Jig Type                GSRY
   FPHI - Formation Factor Formula Porosity       SPHI
   DWCO - Digitizer Word Count                    512
   DSIN - Digitizer Sample Interval               5            US
   DDEL - Digitizing Delay                        200          US
   BS   - Bit Size                                7.87500      IN
   BHS  - BoreHole Status (Open or Cased)         OPEN
```

COMPANY	NAHAMA AND WEAGANT ENERGY CO.			**SCHL.**	**FR**	**2754.0 F**
				SCHL.	**TD**	**2760.0 F**
WELL	"FISHHAWK/WILSON" #11A-5-65			**DRLR.**	**TD**	**2765.0 F**
				Elev:	**KB**	**615.0 F**
FIELD	MIST				**DF**	
COUNTY	COLUMBIA	**STATE**	OREGON		**GL**	**604.0 F**

Schlumberger

DUAL INDUCTION-SFL-SONIC
WITH LINEAR CORRELATION LOG