

CSU

 COMPANY: ARCO OIL AND GAS  
 WELL: CAVENHAM FOREST IND. #41-9

 FIELD: MIST  
 COUNTY: COLUMBIA  
 STATE: OREGON  
 NATION: USA  
 LOCATION: 1244.46' SOUTH AND 355.73' WEST  
 FROM THE NE CORNER OF  
 SEC: 9 TWP: 5 NORTH RSE: 4 WEST

 PERMANENT DATUM: ELEVATION:  
 ELEV. OF PERM. DATUM: 335.3 F  
 LOG MEASURED FROM: 335.3 F  
 11.0 F ABOVE PERM. DATUM  
 DRLG. MEASURED FROM: 335.3 F  
 11.0 F ABOVE PERM. DATUM

 DATE: 9 OCT 86  
 RUN NO: ONE

 DEPTH-DRILLER: 3500.1  
 DEPTH-LOGGER: 2497.1  
 BTM. LOG INTERVAL: 3457.1  
 TOP LOG INTERVAL: 476.1  
 CASING-DRILLER: 470.1  
 CASING-LOGGER: 470.1  
 CASING-LOGGERS: 470.1  
 CASING: 470.1  
 HEIGHT: 470.1  
 BIT SIZE: 3.125  
 DEPTH: 3500.1

## OTHER SERVICES-

 DIL  
 BAC  
 HDT  
 FDC/CNL/GR  
 MST

 PROGRAM  
 TAPE NO:  
 SERVICE  
 ORDER NO:  
 524312

 TYPE FLUID IN HOLE: LIGNOSULFONATE  
 DENSITY: 9.90 LB/G  
 VISCOSITY: 38.0 S  
 PH: 10.0  
 FLUID LOSS: 5.0 C3  
 SOURCE OF SAMPLE: FLOWLINE  
 RMF: 2.680 DHMM AT 78.0 DEGF  
 RMC: 4.290 DHMM AT 60.0 DEGF  
 RMC: 3.100 DHMM AT 61.0 DEGF  
 SOURCE RMF/RMC: MEAS/MEAS  
 RM AT BHT: 2.170 DHMM AT 98.0 DEGF  
 RMC AT BHT: 2.737 DHMM AT 98.0 DEGF  
 RMC AT BHT: 2.008 DHMM AT 98.0 DEGF

 TIME CIRC. STOPPED: 0350 10/9  
 TIME LOGGER ON BTM.: 0700 10/9

MAX. REC. TEMP: 98.0 DEGF

 LOGGING UNIT NO: 8128  
 LOGGING UNIT LOC: SACRAMENTO  
 RECORDED BY: BLAZE  
 WITNESSED BY: M. ANDERSON

## REMARKS:

RIG: H&amp;C #5

## EQUIPMENT NUMBERS-

 DIS 1181 DIC 658 PGS 542 PDH 340  
 GSR 6608 SFT 1171 CNC 1132

 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 OUR GENERAL TERMS  
 AND CONDITIONS AS SET OUT IN OUR CURRENT PRICE SCHEDULE.

DEVI( DEG )		CLOS( F )	
-1.000	9.0000	0.0	75.000
RB ( DEG )			EWR( F )
-40.00	360.00	-50.00	50.000
AZIM( DEG )			NSDR( F )
-40.00	360.00	-50.00	50.000

 CP 28.4A FILE 2 09-OCT-86 14:27  
 DATA ACQUIRED 09-OCT-86 12:28

DEPTH	ANGLE	DEPTH	ANGLE	DEPTH	ANGLE
4.6250	228.88	380.0	.616668	1.50834	1.62953
4.6133	269.75	520.0	-.283334	-1.57500	1.60029
4.7617	260.50	540.0	-.533335	-3.20001	3.24415
4.7148	268.25	560.0	-.758335	-4.84168	4.90071
4.7109	254.00	580.0	-1.05000	-6.44168	6.52670
4.6641	269.25	600.0			
4.6367	267.75	620.0	-1.43334	-9.65836	9.76414
4.6953	277.75	640.0	-1.55000	-11.2750	11.3811
4.7344	282.00	660.0	-1.53334	-12.9250	13.0157
4.7266	279.25	680.0	-1.24167	-14.5384	14.5863
4.7344	285.00	700.0			
4.7070	289.25	720.0	-.575002	-17.7667	17.7760
4.7891	286.50	740.0	-.216667	-19.3834	19.3846
4.7617	286.50	760.0	.300001	-20.9584	20.9605
4.7422	288.00	780.0	.850002	-22.5251	22.5411
4.6172	272.00	800.0			
4.6523	288.75	820.0	1.85000	-25.7084	25.7749
4.7773	288.00	840.0	2.32501	-27.3084	27.4072
4.8125	298.00	860.0	2.55834	-28.9251	29.0380
4.7500	298.00	880.0	2.70834	-30.5417	30.6616
4.7578	299.50	900.0			
4.8125	321.00	920.0	3.63334	-33.6751	33.8705
4.7852	318.50	940.0	4.32501	-35.1834	35.4483
4.7656	318.00	960.0	5.12501	-36.6668	37.0232
4.8164	313.75	980.0	5.94168	-38.1251	38.5853
4.8359	312.25	1000.0			
4.7578	312.25	1020.0	7.89169	-40.8334	41.5890
4.8164	308.00	1040.0	9.18336	-43.0918	42.8865
4.7930	306.50	1060.0	10.4500	-45.0001	44.2517
4.8281	309.50	1080.0	11.6917	-47.1418	45.6339
4.7617	306.50	1100.0			
4.9297	308.50	1120.0	14.0250	-46.5418	48.6090
4.8516	306.50	1140.0	15.1417	-47.8001	50.1410
4.8398	303.75	1160.0	16.2000	-49.1001	51.7036
4.8047	299.50	1180.0	17.2250	-50.4251	53.2860
4.8281	309.50	1200.0			
4.7617	306.50	1220.0	19.4001	-52.9918	56.4313
4.9297	308.50	1240.0	20.4167	-54.3335	58.0428
4.8516	306.50	1260.0	21.4001	-55.7002	59.6697
4.8398	303.75	1280.0	22.4001	-57.0668	61.3057
4.7930	302.25	1300.0			
4.7383	300.75	1320.0	24.3084	-59.8752	64.6215
4.8477	299.50	1340.0	25.2251	-61.2918	66.2796
4.8008	296.50	1360.0	26.1251	-62.7085	67.9329
4.7656	296.50	1380.0	26.9501	-64.1502	69.5812
4.8555	300.75	1400.0			
4.8516	299.50	1420.0	28.5167	-67.1168	72.9238
4.8633	299.50	1440.0	29.2751	-68.6002	74.5856
4.8438	302.25	1460.0	30.0667	-70.0835	76.2608
4.8047	298.00	1480.0	30.9251	-71.5419	77.9397
4.8047	298.00	1500.0			
4.8047	298.00	1520.0	32.6584	-74.4585	81.3059
4.8047	298.00	1540.0	33.5168	-75.9085	82.9788
4.8047	298.00	1560.0	34.3418	-77.4002	84.6767
4.8047	298.00	1580.0	35.1751	-78.8835	86.3707
4.8047	298.00	1600.0			
4.8047	298.00	1620.0	36.7751	-81.8752	89.7550
4.8047	298.00	1640.0	37.5584	-83.3669	91.4367
4.8047	298.00	1660.0	38.3334	-84.8586	93.1151
4.8047	298.00	1680.0	39.1001	-86.3419	94.7826
4.8047	298.00	1700.0			
4.7695	296.50	1720.0	40.6001	-89.3336	98.1267
4.8047	298.00	1740.0	41.3418	-90.8252	99.7916
4.7852	299.50	1760.0	42.1334	-92.3086	101.470
4.8438	302.25	1780.0	42.9751	-93.7669	103.146
4.8047	298.00	1800.0			
4.8047	298.00	1820.0	44.5918	-96.7169	106.502
4.8047	298.00	1840.0	45.4584	-98.1836	108.197
4.8047	298.00	1860.0	46.2751	-99.6586	109.878
4.8047	298.00	1880.0	47.1168	-101.125	111.563
4.8047	298.00	1900.0			
4.7148	296.50	1920.0	48.6335	-104.117	114.915
4.7305	299.50	1940.0	49.4085	-105.600	116.587
4.8047	302.25	1960.0	50.2335	-107.059	118.258
4.8125	302.25	1980.0	51.0418	-108.525	119.929
4.8320	302.25	2000.0			
4.8359	303.75	2020.0	52.7835	-111.434	123.303
4.8047	303.75	2040.0	53.6835	-112.867	124.983
4.8047	303.75	2060.0	54.6335	-114.250	126.641
4.7734	302.25	2080.0	55.6001	-115.617	128.291
4.6133	299.50	2100.0			
4.6914	303.75	2120.0	57.4168	-118.359	131.550
4.6719	303.75	2140.0	58.3085	-119.725	133.169
4.7344	303.75	2160.0	59.2418	-121.084	134.799
4.6133	303.75	2180.0	60.1668	-122.434	136.419
4.6133	303.75	2200.0			
4.6133	303.75	2220.0	62.0418	-125.109	139.647
4.6133	303.75	2240.0	62.8835	-126.525	141.290
4.6133	303.75	2260.0	63.7168	-127.942	142.930
4.6133	303.75	2280.0	64.6002	-129.317	144.555
4.6133	303.75	2300.0			
4.6133	303.75	2320.0	66.3752	-132.092	147.831
4.6133	303.75	2340.0	67.2168	-133.509	149.475
4.6133	303.75	2360.0	68.1335	-134.875	151.108
4.6133	303.75	2380.0	69.1085	-136.175	152.708
4.6133	303.75	2400.0			
4.7109	302.25	2420.0	70.9752	-138.867	155.954
4.7031	303.75	2440.0	71.8752	-140.225	157.573
4.7109	299.50	2460.0	72.7502	-141.609	159.203
4.7222	298.00	2480.0	73.5585	-143.034	160.840

 CP 28.4A FILE 2 09-OCT-86 14:19  
 DATA ACQUIRED 09-OCT-86 11:42

DEVI( DEG )		CLOS( F )	
-1.000	9.0000	0.0	75.000
RB ( DEG )			EWR( F )
-40.00	360.00	-50.00	50.000
AZIM( DEG )			NSDR( F )
-40.00	360.00	-50.00	50.000

PARAMETERS					
NAME	VALUE	UNIT	NAME	VALUE	UNIT
DNSD	74.1000	F	DEWD	-144.000	F
TNSD	0.0	F	TEND	0.0	F
TVCD	7.30000	F	ROTA	0.0	DEG
MCT	72		MDEC	0	DEG
BHS	OPEN		STYP	HDSD	
DD	0.0	F	BS	8.00000	IN
PP	NORM				

TAPE NOT MADE

 COMPANY: ARCO OIL AND GAS  
 WELL: CAVENHAM FOREST IND. #41-9  
 FIELD: MIST  
 COUNTY: COLUMBIA STATE: OREGON  
 SCHL. FR: 2457  
 SCHL. TD: 2497  
 DRLR. TD: 2500  
 Elev: KB 846.9  
 DF 845.9  
 GL 835.9