



ACOUSTIC VELOCITY  
GAMMA RAY  
LOG

2" = 100' COMPANY ARCO OIL AND GAS COMPANY

WELL C.E.R. 41-16-64  
FIELD MIST  
COUNTY COLUMBIA  
STATE OR OTHER SERVICES  
PERMITS: 217-22 FEET SOUTH AND 796.34 FEET WEST FROM THE NORTHEAST CORNER OF: SEC. 16 T1P. 6N R3E. 4M ELEV. 1616.5 LOG MEASURED FROM K.B. 11 SFT. ABOVE PERM. DATUM DRILLING MEASURED FROM KELLY BUSHING DATE 08/10/89

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BIT SIZE 6 1/4  
TYPE FLUID IN HOLE 2 POLYMER  
DENS. 11.3  
SOURC. OF SAMPLE  
Rm @ Meas. Temp. @  
Rwf @ Meas. Temp. @  
Rnc @ Meas. Temp. @  
Source: Rmf/Rmc  
Rm @ BHT 3.59 @103.  
Rwf @ BHT 3.71 @103.  
Rnc @ BHT 2.39 @103.

Service Ticket No. : 12268		API Serial No. :		PGM Version: 1.31 PC			
RESISTIVITY SCALE CHANGES							
Date/Sample No.	B9/10/B91ONE	Type Log	Depth	Scale Up Hole	Scale Down Hole		
Depth-Driller							
Type Fluid							
in Hole							
Dens. : Visc. :							
pH. : Fluid Loss :							
Source of Sample							
RESISTIVITY EQUIPMENT DATA							
Rm @ Meas. Temp.	@	@	Run No	Tool Type & No	Pad Type	Tool Pos.	Other
Rwf @ Meas. Temp.	@	@	N/A	DUAL #W109432	N/A	1.5"S.O.	M412
Rnc @ Meas. Temp.	@	@	N/A	SGRD #W108932	N/A	1.5"S.O.	M416
Source: Rmf/Rmc							
Rm @ BHT	3.59	@103.	@				
Rwf @ BHT	3.71	@103.	@				
Rnc @ BHT	2.39	@103.	@				

EQUIPMENT DATA					
Run No.	GAMMA	ONE	Run No.	ACOUSTIC	ONE
Serial No.	W108594	432	Serial No.	W112458	305
Model No.	432	432	Model No.	305	305
Diameter	3 5/8	N/A	No. of Cent.	FOUR	FOUR
Detector Model No.	N/A	N/A	Spacing	1 FOOT	1 FOOT
Type	SCINT.	N/A	Log Type	GAMMA	NEUTRON
Length	4 IN.	LSA	Source Type	CS137	Source Type AM241BE
Distance To Source	N/A	FMDA	Serial No.	118	Serial No. 66
			Strength	1.5 CU.	Strength 19.5 CU

LOGGING DATA									
GENERAL		GAMMA		ACOUSTIC		DENSITY		NEUTRON	
Run No.	Depth	Scale	Scale	Scale	Scale	Scale	Scale	Scale	Scale
ONE	2101	1104	30.	150.	0.	150.	0.	55.6	

Remarks: ANNULAR HOLE VOLUME CALCULATED FOR 3 1/2 INCH PRODUCTION CASING.  
SONIC MATRIX=55.6 US/FT, A=.81, AND M=2.0 FOR RWA CALCULATIONS.  
EXTRA REPEAT SECTION RUN TO SHOW SONIC RESPONSE FROM 1600 TO 1700 FEET.  
CASING STRIP RUN ON TOP OF LOG TO SHOW DELTA-T IN FREE PIPE AND CALIPER.  
SQUARING OF DEEP INDUCTION BETWEEN 1650 AND 1700 DUE TO MAXIMUM READINGS.

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