G0171

00259

COUNTY	
FIELD or LOCATION	
WELL	
COMPANY	
COMPANY	Sm... Oil Co.
WELL	... No. 144-C
FIELD	W.C.
COUNTY	Vernon
STATE	Missouri
LOCATION	535'N & 150'E of SWC
Sec.	6
Twp.	34N
Rge.	33W
Other Services:	
Permanent Datum:	GL
Elev.	863
Log Measured From	GL, Ft. Above Perm. Datum
Drilling Measured From	GL
Elev.: K.B.	—
D.F.	—
G.L.	863

Date	8-22-63			
Run No.	ONE			
Depth—Driller	303½			
Depth—Logger	304			
Btm. Log Interval	303			
Top Log Interval	20			
Casing—Driller	— @ —	@	@	@
Casing—Logger	—			
Bit Size	4¾			
Type Fluid in Hole	NATIVE			
Dens. / Visc.	— / —			
pH / Fluid Loss	— / — ml	ml	ml	ml
Source of Sample	FLOWLINE			
R_m @ Meas. Temp.	Sele... @ °F	@ °F	@ °F	@ °F
R_{mf} @ Meas. Temp.	@ °F	@ °F	@ °F	@ °F
R_{mc} @ Meas. Temp.	@ °F	@ °F	@ °F	@ °F
Source: R_{mf} / R_{mc}	Computed			
R_m @ BHT	@ °F	@ °F	@ °F	@ °F
Time Since Circ.	30 min			
Max. Rec. Temp.	— °F	°F	°F	°F
Equip. / Location	Sha / Sha			
Recorded By	STILL			
Witnessed By	FORSTER			

FIELD PRINT

REMARKS

Changes in Mud Type or Additional Samples			
Date / Sample No.			
Depth—Driller			
Type Fluid in Hole			
Dens. / Visc.			
ph / Fluid Loss		ml	ml
Source of Sample			
R_m @ Meas. Temp.		@ °F	@ °F
R_{mf} @ Meas. Temp.		@ °F	@ °F
R_{mc} @ Meas. Temp.		@ °F	@ °F
Source: R_{mf} / R_{mc}			
R_m @ BHT		@ °F	@ °F
R_{mf} @ BHT		@ °F	@ °F
R_{mc} @ BHT		@ °F	@ °F

Scale Changes			
Type Log	Depth	Scale Up Hole	Scale Down Hole

Equipment Data				
Run No.	Tool Type	Pad Type	Tool Pos.	Other

	PM MEAS. TEMP.	PM BHT	TM MEAS. TEMP	TM BHT
R_m	6.6 @ 92	9.05 @ 67	6.6 @ 92	9.05 @ 61
R_{mf}	5.56 @ 92	7.64 @ 67	5.52 @ 92	7.58 @ 61
R_{mc}	10.5 @ 92	14.4 @ 67	10.2 @ 92	14.0 @ 61

SPONTANEOUS POTENTIAL millivolts	Depths	RESISTIVITY ohms. m²/m	RESISTIVITY ohms. m²/m
10 mV (− +)		SHORT NORMAL AM = 8" — 0 to 50; 0 to 500	LONG NORMAL — 0 to 50; 0 to 500
		18'8" LATERAL — 0 to 50; 0 to 500	

Preliminary Calculations

Rw ~ 0.9

Assume m = n = 1.75

Φavg = 23%

Ro ~ 11.5

Interval			
① 193 – 220	90	25	Unifrom brown ...
② 220 – 251	72	30	Live oil ...
③ 251 – ...	80	8	oilsand ...
①	71		
②	55		
③	62		

LATERAL ADJUST

Then Assume φ = 30% & Ro ~ 7.5

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NORMAL ADJUST

$K_L/K_S = 8$