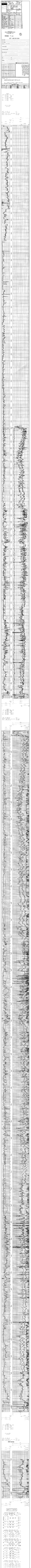


Schlumberger BOREHOLE COMPENSATED SONIC LOG

COUNTY	ANDREWS
FIELD	WILDCAT
LOCATION	
WELL	RALPH #10-19
COMPANY	MOBIL OIL CORP.

COMPANY MOBIL OIL CORPORATION

WELL RALPH #10-19

FIELD WILDCAT

COUNTY ANDREWS STATE TEXAS

LOCATION 660' FNL & 990' FEL SEC. 19, BLK. A-37 PSL SURVEY

API SERIAL NO. | SEC. | TWP. | RANGE

Other Services: DIL, FDC

Permanent Datum: GL Elev.: 3349
Log Measured From: KB 11 Ft. Above Perm. Datum
Drilling Measured From: KB

Elev.: KB 3360, DF 3359, GL 3349

Date	1-14-78			
Run No.	ONE			
Depth—Driller	8683			
Depth—Logger (Schl.)	8680			
Btm. Log Interval	8677			
Top Log Interval	SURF.			
Casing—Driller	8 5/8 @4400	@	@	@
Casing—Logger	4395			
Bit Size	7 7/8			
Type Fluid in Hole	FRESH WATER GEL			
Dens. | Visc.	8.8 | 49			
pH | Fluid Loss	9.2 | 8 ml	ml	ml	ml
Source of Sample	FLOWLINE			
Rm @ Meas. Temp.	.75 @65 °F	@ °F	@ °F	@ °F
Rmf @ Meas. Temp.	.59 @65 °F	@ °F	@ °F	@ °F
Rmc @ Meas. Temp.	1.12 @65 °F	@ °F	@ °F	@ °F
Source: Rmf | Rmc	M | C			
Rm @ BHT	.46 @ 110 °F	@ °F	@ °F	@ °F
Time: Circulation Stopped	0800			
Time: Logger on Bottom	1630			
Max. Rec. Temp.	110 °F	°F	°F	°F
Equip. | Location	7626 | MID-OH			
Recorded By	SEVOUGIAN			
Witnessed By Mr.	THOMPSON			

Reproduced By
Electrical Log Services
Midland, Texas 79701

REFERENCE W 6072H

(PI)

10 COMPLETION RECORD

SPUD DATE

COMP DATE

DST RECORD

API NO. 42-003-31589

CASING RECORD

PERFORATING RECORD

ACID FRAC SHOT

I P

GOR GR

T P C P

REMARKS

(PI) REPRODUCTION FOR RESALE PROHIBITED

Run No.	ONE		
Service Order No.	24430		
Fluid Level	130'		

EQUIPMENT DATA

Sonic Panel No.	42		
Sonic Cart. No.	752		
Sonic Sonde No.	1469		
Mem. Panel No.	88		
G.R. Cart. No.	1605		
G.R. Panel No.	56		
Caliper No.	364		
TTR No.	796		
Centralizers: No.	1		
Type	CME-Z		
Standoffs: No.	1		
Type	1 1/2"		
Time Const.-Sec.			
Speed - F.P.M.	50		

CALIBRATION DATA

GR	BKG CPS	64	
	Source CPS	523	
	Tc Sec		

SCALE CHANGES

Type Log	Depth	Scale Up Hole	Scale Down Hole

LOGGING DATA

Porosity Selectors: Δt_m	Δt_f	Cp	Ø Scale	Depth: From	To

REMARKS: FILM SPLICE ON 2" AT 4000'.

Velocity (ft/sec) = 1,000,000 / Interval Transit Time (microseconds per foot)

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.

CALIPER DIAM. IN INCHES 6 — 16

GAMMA RAY API UNITS 0 — 100; 100 — 200

DEPTH

INTERVAL TRANSIT TIME MICROSECONDS PER FOOT T3 R2 R2
100 — 70 — 40; 160 — 130 — 100

INTEGRATED TRAVEL TIME

GAMMA RAY API UNITS 0 — 100; 100 — 200

INTEGRATED TRAVEL TIME

CALIPER DIAM. IN INCHES 6 — 16

DEPTH

INTERVAL TRANSIT TIME MICROSECONDS PER FOOT T3 R2 R2
100 — 70 — 40; 160 — 130 — 100

COMPANY MOBIL OIL CORPORATION

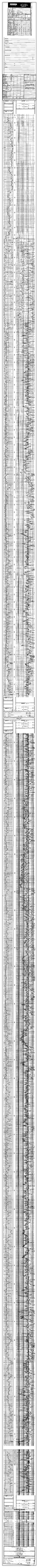
WELL RALPH #10-19

FIELD WILDCAT

COUNTY ANDREWS STATE TEXAS

SCHL FR 8677
SCHL TD 8680
DRLR TD 8683

Elev. KB 3360, DF 3359, GL 3349



Welex RADIOACTIVITY LOG

COMPANY	OPCO OIL & GAS COMPANY
WELL	HUMBLE - SIMS # 1
FIELD	UNDESIGNATED
COUNTY	ANDREWS
STATE	TEXAS
Location	467' FWL & 1787' FNL Sec. 16, Blk. A - 29, PSL Survey.
Sec. / Twp / Rge	
Other Services:	

Company OPCO Oil & Gas Company — Well Humble - Sims # 1 — Field Undesignated — County Andrews — State Texas

Permanent Datum	Ground Level, Elev. 3515'
Log Measured from	K. B. - 10 Ft. Above Perm. Datum
Drilling Measured From	Kelly Bushing
Elev.: K.B.	3525'
D.F.	3524'
G.L.	3515'

Date	10/29/68		
Run No	- One -		
Type Log	G/R - N/G		
Depth—Driller	4450		
Depth—Welex	4451		
Bottom Logged Interval	4450		
Top Logged Interval	Surface		
Type Fluid in Hole	Water		
Salinity, PPM Cl			
Density			
Level			
Max rec temp., deg. F			
Operating Rig Time			
Recorded By	J.S. Cauble		
Witnessed by	Mr. Butler & Mr. Looney		

RUN	BORE-HOLE RECORD			CASING RECORD			
No.	Bit	From	To	Size	Wgt.	From	To
-1-	7-7/8"	0	4475'	4-1/2"		0	4450'

SPUD DATE

COMP DATE

DST RECORD

CASING RECORD

PERFORATING RECORD

ACID. FRAC SHOT

I P

GOR — GR

T P — C P

REMARKS.

EQUIPMENT DATA

GAMMA RAY			NEUTRON	
Run No.	- One -		Run No.	- One -
Tool Model No.	83		Log Type	Neutron - Gamma
Diameter	1-5/8"		Tool Model No.	83
Detector Model No.	Type II		Diameter	1-5/8"
Type	Bismuth		Detector Model No.	Type II
Length	27"		Type	Bismuth
Distance to N. Source	96"		Length	12"
			Source Model No.	5 CU
GENERAL			Serial No.	N 27
Hoist Truck No.	8443		Spacing	15.6"
Instrument Truck No.	8443		Type	PuBe
Tool Serial No.	15352		Strength	8.5 x 10^6 Neutrons/Second

LOGGING DATA

GENERAL				GAMMA RAY				NEUTRON			
Run No.	Depths From	To	Speed Ft/Min	T C Sec	Sens Settings	Zero Div. L or R	API G R Units per Log Div.	T C Sec	Sens Settings	Zero Div. L or R	API N Units per Log Div.
-1-	0	4450'	*	2	100	0	10	2	1000	3/L	50

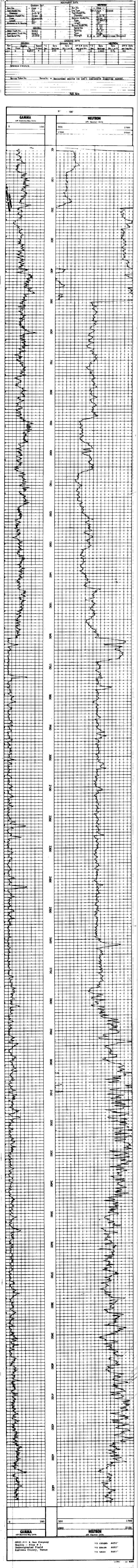
Reference Literature.

Service Ticket No — Remarks: * Recorded spots on left indicate logging speed.

Fold Here

2" - 100'

GAMMA		NEUTRON
API Gamma Ray Units		API Neutron Units
0 — 100		300 — 1300



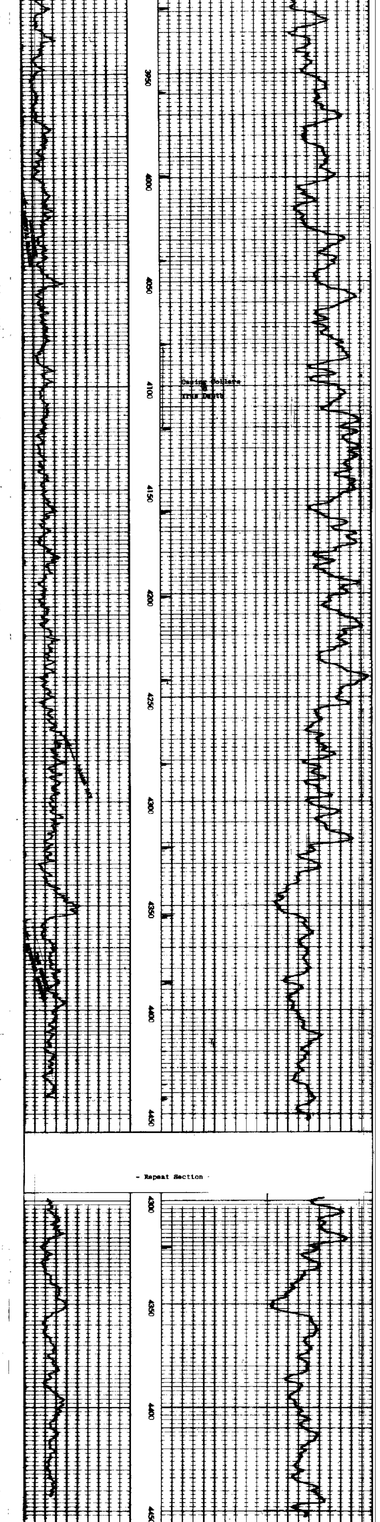
GAMMA		NEUTRON
0 — 100		300 — 1300
		1300 — 2300
API Gamma Ray Units		API Neutron Units

OPCO Oil & Gas Company
Humble - Sims # 1
Undesignated Field
Andrews County, Texas

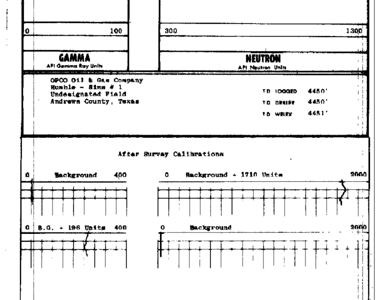
T D LOGGED 4450'
T D DRILLER 4450'
T D WELEX 4451'

5" - 100'

GAMMA		NEUTRON
API Gamma Ray Units		API Neutron Units
0 — 100		300 — 1300

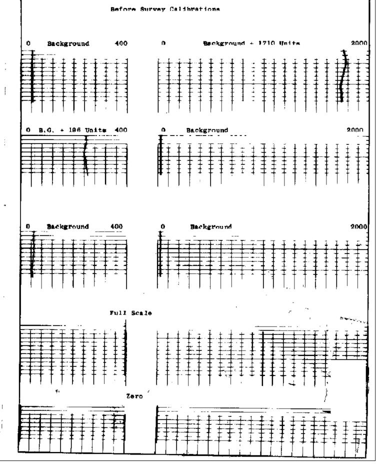


- Repeat Section -



GAMMA		NEUTRON
0 — 100		300 — 1300
API Gamma Ray Units		API Neutron Units

OPCO Oil & Gas Company
Humble - Sims # 1
Undesignated Field
Andrews County, Texas

T D LOGGED 4450'
T D DRILLER 4450'
T D WELEX 4451'

After Survey Calibrations