save

SCHLUMBERGER

BOREHOLE COMPENSATED SONIC LOG (WITH CALIPER)

COUNTY NORTH SLOPE
FIELD or LOCATION WILDCAT
WELL NORTH PRUDHOE STATE # 1 23-12-14
COMPANY ARCO-HORCO

COMPANY ATLANTIC RICHFIELD COMPANY & HUMBLE OIL AND REFINING COMPANY

WELL NORTH PRUDHOE STATE # 1 23-12-14

FIELD WILDCAT

COUNTY NORTH SLOPE STATE ALASKA

LOCATION 1513 FSL & 1038 FWL

Sec. 23 Twp. 12N Rge. 14E

Other Services: SNP, FDC, PML, HRT, HDT, DIL

Permanent Datum: MSL, Elev. 0
Log Measured From KB 44.11 Ft. Above Perm. Datum
Drilling Measured From KB

Elev.: K.B. 44.11
D.F. 42.09
G.L. 11.38

Date	3-22-70			
Run No.	ONE			
Depth—Driller	9610			
Depth—Logger	9616			
Btm. Log Interval	9606			
Top Log Interval	2476			
Casing—Driller	13 3/8 @ 2477	@	@	@
Casing—Logger	2476			
Bit Size	12 1/4			
Type Fluid in Hole	SPERSENE			
Dens. / Visc.	83.5 / 55			
pH / Fluid Loss	9.5 / 4 ml	ml	ml	ml
Source of Sample	FLOWLINE			
R_m @ Meas. Temp.	2.39 @ 64 °F	@ °F	@ °F	@ °F
R_{mf} @ Meas. Temp.	2.17 @ 61 °F	@ °F	@ °F	@ °F
R_{mc} @ Meas. Temp.	2.93 @ 57 °F	@ °F	@ °F	@ °F
Source: R_{mf} R_{mc}	MEAS / MEAS			
R_m @ BHT	---- @ 150 °F	@ °F	@ °F	@ °F
Time Since Circ.	4 1/2 HOURS			
Max. Rec. Temp.	150 °F	°F	°F	°F
Equip. / Location	334 / AK			
Recorded By	DRAGE			
Witnessed By	PESSEL			

FOLD HERE

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

3-21-70 AND 014141

REMARKS

Changes in Mud Type or Additional Samples

Date	Sample No.	Type Log	Depth	Scale Up Hole	Scale Down Hole
Depth—Driller					
Type Fluid in Hole					
Dens. / Visc.					
ph / Fluid Loss	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

Equipment Data

Run No.	Tool Type	Tool Position	Other
ONE	BHC	CENTERED	

C.D.: USED S.O.: 3"
Equip. Used: CART. No. SLC-A-207
PANEL No. SLP-C-234
SONDE No. SLS-D-240

Velocity (feet per second) = 1,000,000 / Interval Transit Time (microseconds per foot)

INTERVAL TRANSIT TIME
MICROSECONDS PER FOOT

T 3 R1 2 R2

150	100	50
	200	150

DEPTHS

SPONTANEOUS-POTENTIAL
MILLIVOLTS

10 (−) (+)

RECEIVED
MAY 20 1970
DIVISION OF OIL AND GAS
ANCHORAGE
69-0113-0

DUAL INDUCTION - LATEROLOG

COUNTY NORTH SLOPE
FIELD or LOCATION WILDCAT
WELL NORTH PRUDHOE STATE #1 23-12-14
COMPANY ARCO-HORCO

COMPANY ATLANTIC RICHFIELD COMPANY & HUMBLE OIL AND REFINING COMPANY
WELL NORTH PRUDHOE STATE # 1 23-12-14
FIELD WILDCAT UMIAT
COUNTY NORTH SLOPE STATE ALASKA

LOCATION 1513 FSL & 1038 FWL
5002920049-00
Sec. 23 Twp. 12N Rge. 14E

Other Services: SNP, FDC, BHC, PML, HRT, HDT,

Permanent Datum: MSL, Elev. 0
Log Measured From KB, 44.11 Ft. Above Perm. Datum
Drilling Measured From KB

Elev.: K.B. 44.11
D.F. 42.09
G.L. 11.38

Date	3-23-70			
Run No.	ONE			
Depth—Driller	9610			
Depth—Logger	9606			
Btm. Log Interval	9604			
Top Log Interval	2478			
Casing—Driller	13 3/8 @ 2477	@	@	@
Casing—Logger	2478			
Bit Size	12 1/4			
Type Fluid in Hole	SPERSENE			
Dens. / Visc.	83.5 / 55			
pH / Fluid Loss	9.5 / 4 ml	ml	ml	ml
Source of Sample	FLOWLINE			
R_m @ Meas. Temp.	2.39 @ 64°F	@ °F	@ °F	@ °F
R_{mf} @ Meas. Temp.	2.17 @ 61°F	@ °F	@ °F	@ °F
R_{mc} @ Meas. Temp.	2.93 @ 57°F	@ °F	@ °F	@ °F
Source: R_{mf} R_{mc}	MEAS / MEAS			
R_m @ BHT	---- @ 148°F	@ °F	@ °F	@ °F
Time Since Circ.	5 HOURS			
Max. Rec. Temp.	148 °F	°F	°F	°F
Equip. / Location	334 / AK.			
Recorded By	F. BAKER			
Witnessed By	F. BAKER			

CONFIDENTIAL

18-0113-11

FOLD HERE

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

REMARKS SURFACE CALABRATION FILM NOT AVAILABLE, HOWEVER SONDE ERROR VALVES ARE CORRECT

Changes in Mud Type or Additional Samples

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

Scale Changes

Type Log	Depth	Scale Up Hole	Scale Down Hole

Equipment Data

Run No.	Tool Type	Tool Position	Other

Run No.: ONE
C.D.: USED
S.O.: 1 1/2"
Equip. PANEL No.: DIP-C-225
Used: CART. No.: DIC-B-114
SONDE No.: DIS-B- 55
IAP No.: MMP-B-266
S.B.R.: 2

Check one, filling in blanks where applicable:
☒ Surface determined sonde errors used for ILM and ILD.
☐ ILM and ILD sonde errors corrected for inch borehole signal at R_m =
☐ ILM and ILD zeros set in hole at depth of feet.

18-0113-11

RESISTIVITY ohms. m²/m

LATEROLOG – 8: 0.2 1.0 10 100 1000 2000

MEDIUM INDUCTION LOG: 0.2 1.0 10 100 1000 2000

DEPTHS

SPONTANEOUS-POTENTIAL millivolts

10 + −