Schlumberger

BOREHOLE COMPENSATED SONIC LOG

COUNTY NORTH SLOPE
FIELD or LOCATION WILDCAT
WELL FOGGY ISLAND BAY STATE #1
COMPANY AMOCO PRODUCTION CO.

COMPANY AMOCO PRODUCTION COMPANY

CONFIDENTIAL

WELL FOGGY ISLAND BAY STATE #1

FIELD WILDCAT

COUNTY NORTH SLOPE STATE ALASKA

LOCATION: SE ¼ API Serial No.

Sec. 19 Twp. 11N Rge. 17E UPM

Other Services:
HDT, HST, CBL
DIL, BHC-GR, TTR
ST, SMP, CIS, MPT

Permanent Datum: GL ; Elev.: 16
Log Measured From KB , 26 Ft. Above Perm. Datum
Drilling Measured From KB

Elev.: K.B. 42
D.F.
G.L. 16

Date	2-8-75	3-8-75	4-1-75
Run No.	ONE	TWO	THREE
Depth—Driller	2500	9765	11202
Depth—Logger	2473	9712	11192
Btm. Log Interval	2470	9702	11178
Top Log Interval	160	2497	9745
Casing—Driller	20" @ 158	13⅜" @ 2500	9⅝" @ 9765 @
Casing—Logger	160	2497	9745
Bit Size	12¼"	12¼"	8½"
Type Fluid in Hole	FGM	LSND	LSND
Dens. / Visc.	9.0 / 150	9.0 / 35	9.3 / 35
pH / Fluid Loss	8.0 / 13.8 ml	8.5 / 7.0 ml	8.5 / 8.2 ml / ml
Source of Sample	FLOWLINE	PIT	CIRC
R_m @ Meas. Temp.	5.48 @ 80 °F	4.22 @ 77 °F	2.33 @ 49 °F @ °F
R_{mf} @ Meas. Temp.	5.27 @ 71 °F	3.96 @ 61 °F	2.59 @ 49 °F @ °F
R_{mc} @ Meas. Temp.	6.16 @ 71 °F	5.01 @ 61 °F	3.20 @ 59 °F @ °F
Source: R_{mf} / R_{mc}	M / C	M / M	M / M
R_m @ BHT	- @ - °F	- @ - °F	.63 @ 180 °F @
TIME Circulation Stopped	13 HOURS	4½ HOURS	1400 4-1-75
			2300 4-1-75
Max. Rec. Temp.	- °F	- °F	180 °F °F
Equip. / Location	1228 / 4614	1228 / 4614	1228 / 4614
Recorded By	FRIDLEY	FRIDLEY	MARTIN
Witnessed By	MCKEEVER	MILLIGAN	MILLIGAN

FOLD HERE

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

Run No.	ONE	TWO	THREE
Service Order No.	44989	44992	51001
Fluid Level	FULL	FULL	FULL

EQUIPMENT DATA

Sonic Panel No.	JD-422	JG-317	JH-324
Sonic Cart No.	DB-423	A-210	DD-330
Sonic Sonde No.	D-524	D-522	A-1222
Mem. Panel No.	BA-202	AC-176	268
G.R. Cart. No.	608	J-608	E-608
G.R. Panel No.	D-406	AC-176	657
Caliper No.	A-16	D-1200	D-26
TTR No.	E-987	D-732	G-986
Centralizers: No.	-	USED	1
Type	-	-	MCD
Standoffs: No.	2	-	3
Type	2"	2"	RUBBER
Time Const.-Sec.	2	1	2
Speed - F.P.M.	30	60	30

CALIBRATION DATA

GR	BKG. CPS	60	20	60
	Source CPS	540	230	540
	Tc Sec	165	0-150	CAL

SCALE CHANGES

Type Log	Depth	Scale Up Hole	Scale Down Hole

LOGGING DATA

Porosity Selectors				Depth	
Δt_m	Δt_f	Cp	ϕ Scale	From	To

REMARKS

RUN THREE - CALIPER NOT PRESENTED ON LOG ONLY ON REPEAT.

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 7 of our General Terms and Conditions as set out in our current Price Schedule.

INTERVAL TRANSIT TIME MICROSECONDS PER FOOT T3 R1, 2 R2

150 — 100 — 50
200 — 150

INTERGRATED TRAVEL TIME

DEPTH

CALIPER DIAM. IN INCHES
6" — 16"

GAMMA RAY API UNITS
0 — 100
100 — 200

Casing

74-0044-0

Schlumberger

DUAL INDUCTION - LATEROLOG

COUNTY NORTH SLOPE
FIELD or LOCATION WILDCAT
WELL FOGGY ISLAND BAY STATE #1
COMPANY AMOCO PRODUCTION COMPANY

COMPANY AMOCO PRODUCTION COMPANY

CONFIDENTIAL

WELL FOGGY ISLAND BAY STATE #1

FIELD WILDCAT

COUNTY NORTH SLOPE STATE ALASKA

RECEIVED
JUN 11 1975
DIVISION OF OIL AND GAS
ANCHORAGE

Location: SE 1/4 Sec. 19 Twp. 11N Rge. 17E UPM

API Serial No: 50-029-20146-2

Other Services: HDT, HRT, ST, FDC, BHC/GR, SNP, CBL, CIS, TTR

Permanent Datum: GL ; Elev.: 16
Log Measured From KB , 26 Ft. Above Perm. Datum
Drilling Measured From KB

Elev.: K.B. 42
D.F.
G.L. 16

Date	2/8/75	3/7/75	4/1/75	
Run No.	ONE	TWO	THREE	
Depth—Driller	2500	9765	11202	
Depth—Logger	2473	9725	11192	
Btm. Log Interval	2467	9719	11182	
Top Log Interval	160	2497		
Casing—Driller	20" @158	13 3/8" @ 2500	9 5/8" @9765	@
Casing—Logger	160	2497		
Bit Size	12 1/4"	12 1/4"	8 1/2"	
Type Fluid in Hole	FGM	LSND.	LIGNOS	
Fluid Level	FULL	FULL	FULL	
Dens. / Visc.	9.0 / 150	9.0 / 35	9.3 / 35	/
pH / Fluid Los	8.0 / 13.8 ml	8.5 / 7.0 ml	8.5 / 8.2 ml	/ ml
Source of Sample	FLOWLINE	PIT	CIRC.	
R_m @ Meas. Temp.	5.48 @80 °F	4.22@77 °F	2.33@49 °F	@ °F
R_{mf} @ Meas. Temp.	5.27 @71 °F	3.96@61 °F	2.59@49 °F	@ °F
R_{mc} @ Meas. Temp.	6.16 @71 °F	5.01@61 °F	3.20@54 °F	@ °F
Source: R_{mf} / R_{mc}	M / C	M / M	M / M	/
R_m @ BHT	@ °F	2.2 @144°F	.66@172 °F	@ °F
Time Since Circ.	11 HOURS	6 HOURS	6 HOURS	
Max. Rec. Temp.	°F	144 °F	172 °F	°F
Equip. / Location	1228 / 4614	1228 / 4614	1228 / 4614	/
Recorded By	FRIDLEY	FRIDLEY	MARTIN	
Witnessed By	MCKEEVER	MILLIGAN/MERRYMAN	MILLIGAN/MERRYMAN	

FOLD HERE

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

SCALE CHANGES

Type Log	Depth	Scale Up Hole	Scale Down Hole

REMARKS

Service Order No. - ONE - 44989
TWO - 44992
THREE - 51001

☒ Surface determined sonde errors used.
☐ Sonde error corrected for borehole signed at R_m = inch
☐ Induction zero set in hole at depth of feet.

CHANGES IN MUD TYPE OR ADDITIONAL SAMPLES

Date	Sample No.		
Depth - Driller			
Type Fluid in Hole			
Dens. / Visc.	/	/	/
ph / Fluid Loss	/ ml	/ ml	/ 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

EQUIPMENT DATA

Run No.	ONE	TWO	THREE
Panel No.	DC365	DC359	DC365
Cart. No.	B245	B228	B245
Sonde No.	DB196	DB201	DC196
Mem. Panel No.	BA202	AC176	268
G.R. Cart. No.			
G.R. Panel No.			
TTR No.	E987	D732	E986
Cent. Device	USED	4 FIN	4 FIN
Stand off - Inches	1.5"	1.5"	1.5"
Time Const - Sec.		100	75
Speed - F.P.M.			

CALIBRATION DATA

CALIBRATION:	BACKGND.	SOURCE	GALV. INCR.	SENS. TAP	SENS. TAP	TIME
	CPS.	CPS.	DIVISION	(FOR CAL.)	(RECORD)	CONST.
GAMMA RAY:						

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