RELEASED

OOMOLDIC ANALYSIS CYBERLOOK

CSU

COMPANY: THE STONE PETROLEUM CORPORATION
WELL: #1 SCHOOLER 16-8
FIELD: RUNAMUCK
COUNTY: ATCHISON
STATE: MISSOURI
NATION: USA
LOCATION: 652.1' FNL & 550' FEL

SEC: 16 TWP: 63N RGE: 40W

RECEIVED SEP 21 1987 MO Oil & Gas Council Economic Geology

OTHER SERVICES- DIL-SFL-GR, CNL-LDT-GR, BHC-GR, EPT-ML-GR, CYBERLOOK

PERMANENT DATUM: GL
ELEV. OF PERM. DATUM: 880.0 F
LOG MEASURED FROM: KB 6.0 F ABOVE PERM. DATUM
DRLG. MEASURED FROM: KB

ELEVATIONS: KB: 886.0 F, DF: 884.0 F, GL: 880.0 F

PROGRAM TAPE NO: 26.2
SERVICE ORDER NO: 417967

DATE: 28 JUL 87
RUN NO: 1

DEPTH-DRILLER: 3680.0 F
DEPTH-LOGGER: 3680.0 F
BTM. LOG INTERVAL: 3650.0 F
TOP LOG INTERVAL: 1800.0 F

CASING-DRILLER: 350 F
CASING-LOGGER: 357 F
CASING: 8 5/8"
BIT SIZE: 7 7/8"

DO NOT RELEASE

TYPE FLUID IN HOLE:	CHEMICAL
DENSITY:	9.0 LB/G
VISCOSITY:	37.0 S
PH:	12.0
FLUID LOSS:	10.8 C3
SOURCE OF SAMPLE:	FLOWLINE
RM:	.943 OHMM AT 89.0 DEGF
RMF:	.750 OHMM AT 84.0 DEGF
RMC:	1.350 OHMM AT 84.0 DEGF
SOURCE RMF/RMC:	PRESS /PRESS
RM AT BHT:	.780 OHMM AT 109. DEGF
RMF AT BHT:	.588 OHMM AT 109. DEGF
RMC AT BHT:	1.059 OHMM AT 109. DEGF
TIME CIRC. STOPPED:	1300 7/27
TIME LOGGER ON BTM.:	1430 7/27
MAX. REC. TEMP:	109.0 DEGF
LOGGING UNIT NO:	8353
LOGGING UNIT LOC:	GREAT BEND
RECORDED BY:	INGRAHAM
WITNESSED BY:	EBLE

REMARKS:

THANKS FROM THE CREW OF 8353: DAVE, LACY, & RON
CHLORIDES = 1800 PPM

EQUIPMENT NUMBERS-

GREEN DITD	GREEN SGTE	YELLOW LDTC	BLACK CNTH
BLACK SGTL	BLACK TCCA	TCM 414	IEM 1346
NSM 2876	GREEN SLTL	SLM 1562	WST

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 OUR GENERAL TERMS AND CONDITIONS AS SET OUT IN OUR CURRENT PRICE SCHEDULE.

FILE 105 28-JUL-87 11:15
DATA ACQUIRED 05-NOV-119 02:08

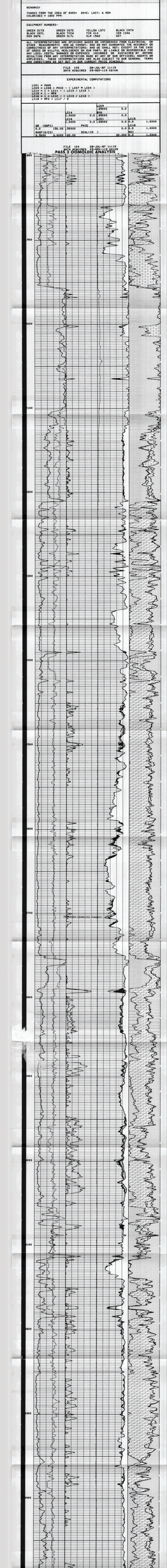
EXPERIMENTAL COMPUTATIONS

LC01 = VWX0
LC09 = LC08 + PHIE - (LC07 * LC04)
LC14 = 1 + LC11 - (LC13 / LC12)
LC15 = 1 - MP2
LC16 = 1 + LC10 - (LC13 / LC12)
LC18 = MP3 + LC17 / 2

			LC09 .25000 0.0	
	LC14 1.0000 0.0		BVW .25000 0.0	
	LC16 1.0000 0.0		LC01 .25000 0.0	LC15 0.0 1.0000
GR (GAPI) 0.0 150.00	PHIE .50000		0.0	LC18 0.0 1.0000
RHGF(G/C3) 2.5000 3.0000	-20.00	DCAL(IN)	20.000	MSI 0.0 1.0000

FILE 104 28-JUL-87 11:15
DATA ACQUIRED 05-NOV-119 02:08

PASS 3 OOMOLDIC ANALYSIS



PASS 3 OOMOLDIC ANALYSIS

FILE 104 28-JUL-87 11:08
DATA ACQUIRED 05-NOV-119 02:08

			LC09 .25000 0.0	
	LC14 1.0000 0.0		BVW .25000 0.0	
	LC16 1.0000 0.0		LC01 .25000 0.0	LC15 0.0 1.0000
GR (GAPI) 0.0 150.00	PHIE .50000		0.0	LC18 0.0 1.00
RHGF(G/C3) 2.5000 3.0000	-20.00	DCAL(IN)	20.000	MSI 0.0 1.0

PARAMETERS

NAME	VALUE	UNIT	NAME	VALUE	UNIT
LPCS	TWIN		DHC	CALI	
MDEN	2.71000	G/C3	WMUD	9.00000	LB/G
MATR	LIME		FD	1.00000	G/C3
RZ	.0600000		HC	CALI	
BHT	120.000	DEGF	RTLF	DISA	
RXOF	PRES		SONI	PRES	
SIMP	GR		CLIM	9.50000	IN
PMAX	.500000		NGSI	NEUT	
GRSH	110.000	GAPI	GRCL	30.0000	GAPI
SPSH	0.0	MV	SPCL	-120.000	MV
MPSH	.250000		MPCL	.0200000	
RWB	.250000	OHMM	RWF	.0600000	OHMM
POUT	LIME		FCAL	PRES	
FESX	DISA		FEPT	LDT	
TPM2	7.20000	NS/M	TPM1	9.80000	NS/M
TPFM	7.20000	NS/M	TPM3	8.70000	NS/M
GDCL	0.0	G/C3	DRUL	.190000	G/C3
FRTC	DIL		GDSH	2.90000	G/C3
MDET	NEIT		LSWB	DISA	
DLLM	.350000		NLIM	.0100000	
MMLA	ABSE		GULM	999.001	GAPI
SIS	NONE		SDGC	DGCN	
RG21	2.71000		LDTA	PRES	
RG23	2.87700		RG22	2.64400	
RG32	2.64400		RG31	2.71000	
UF	.398000		RG33	2.87700	
UM22	4.77900		UM21	13.7700	
UM31	13.7700		UM23	8.99700	
UM33	8.99700		UM32	4.77900	
FRT	DISA		GRSS	GR	
KCOM	1.00000		KES	E4	
BHS	OPEN		KEXP	1.00000	
DO	0.0	F	BS	7.87500	IN
PP	NORM				

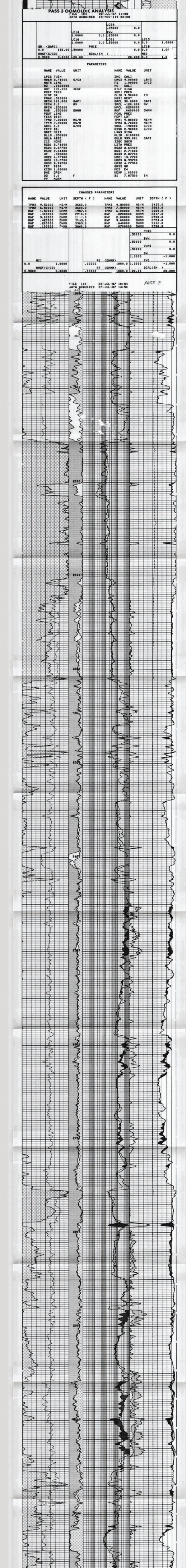
CHANGED PARAMETERS

NAME	VALUE	UNIT	DEPTH (F)	NAME	VALUE	UNIT	DEPTH (F)
TPM3	9.50000	NS/M	3660.0	TPM3	9.80000	NS/M	3435.0
TPM2	6.50000	NS/M	3600.0	TPM2	7.50000	NS/M	3563.0
RWF	1.50000	OHMM	1957.0	TPM2	6.00000	NS/M	3660.0
RWF	.400000	OHMM	2810.0	RWF	.0200000	OHMM	2017.0
RWF	3.00000	OHMM	[illegible]	RWF	2.00000	OHMM	2590.0
RWF	.420000	OHMM	3085.0	RWF	.300000	OHMM	2754.0
RWF	.200000	OHMM	3363.0	RWF	.640000	OHMM	3112.0
RWF	.100000	OHMM	3660.0	RWF	.0700000	OHMM	3590.0

			PHIE .50000 0.0
			BVW .50000 0.0
			VWXO .50000 0.0
			SW 1.0000 -1.000
MSI 0.0 1.0000		RO (OHMM) .10000 1000.0	SXO 1.0000 -1.000
RHGF(G/C3) 2.5000 3.0000		RT (OHMM) .10000 1000.0	DCAL(IN) -20.00 20.000

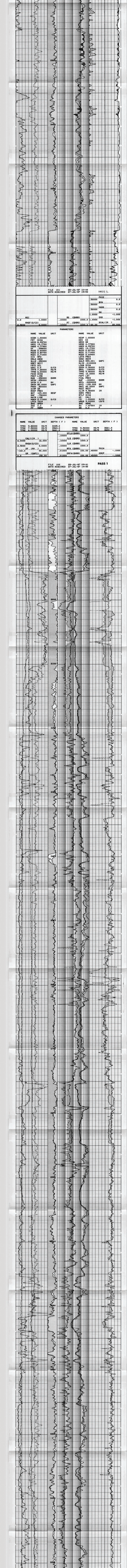
FILE 101 28-JUL-87 10:54
DATA ACQUIRED 27-JUL-87 14:50

PASS 2



FILE 101 28-JUL-87 10:44
DATA ACQUIRED 27-JUL-87 15:53

PASS 2



FILE 102 28-JUL-87 09:30
DATA ACQUIRED 27-JUL-87 15:52

PASS 1

	SFLU(OHMM) .10000 1000.0		
CALI(IN) 6.0000 16.000	ILD (OHMM) .10000 1000.0		
RHGA(G/C3) 2.5000 3.0000	ILM (OHMM) .10000 1000.0		
SP (MV) -160.0 40.000	RFA (OHMM) .01000 100.00	.40000	PHIA -.1000
GR (GAPI) 0.0 150.00	ERFA(OHMM) .01000 100.00	.40000	EMCP -.1000

PARAMETERS

NAME	VALUE	UNIT	NAME	VALUE	UNIT
KCOM	1.00000		KEXP	1.00000	
FRT	DISA		KES	E4	
UM33	8.99700		GRSS	GR	
UM31	13.7700		UM32	4.77900	
UM22	4.77900		UM23	8.99700	
UF	.398000		UM21	13.7700	
RG32	2.64400		RG33	2.87700	
RG23	2.87700		RG31	2.71000	
RG21	2.71000		RG22	2.64400	
SIS	NONE		LDTA	PRES	
MMLA	ABSE		SDGC	DGCN	
DLLM	.350000		GULM	999.001	GAPI
MDET	NEIT		NLIM	.0100000	
FRTC	NONE		LSWB	ALLO	
GDCL	0.0	G/C3	GDSH	2.90000	G/C3
TPFM	7.20000	NS/M	DRUL	999.001	G/C3
TPM2	6.00000	NS/M	TPM3	9.50000	NS/M
FESX	DISA		TPM1	10.0000	NS/M
POUT	LIME		FEPT	LDT	
RWB	.100000	OHMM	FCAL	PRES	
MPSH	.500000		RWF	.0200000	OHMM
SPSH	0.0	MV	MPCL	0.0	
GRSH	200.000	GAPI	SPCL	-200.000	MV
PMAX	.500000		GRCL	0.0	GAPI
SIMP	BOTH		NGSI	NEIT	
SONI	PRES		RXOF	PRES	
HC	CALI		RTLF	DISA	
FD	1.00000	G/C3	MATR	LIME	
WMUD	8.00000	LB/G	MDEN	2.71000	G/C3
DHC	NONE		LPCS	TWIN	
BS	7.87500	IN	BHS	OPEN	
DO	0.0	F	DO2	0.0	F
PP	NORM				

Log Analysis

CYBERLOOK

Schlumberger

Zone 3171 ft. to 3175 ft.
Porosity Range 17% Sw Range 60%
Net Feet 4 Probable Production WATER + POSSIBLE OIL
Comments: 4 FEET SAND DEVELOPMENT WITH GOOD POROSITY IN ARBUCKLE. BULK VOLUME WATER IS HIGH. MICROLOG INDICATES GOOD PERM. WOULD EXPECT

Zone 2788 ft. to 2794 ft.
Porosity Range 16% Sw Range 20%
Net Feet 6 Probable Production OIL
Comments: GOOD POROSITY, LOW WATER. MICROLOG INDICATES GOOD PERM FROM 2788-2792. SHOULD PRODUCE WATER FREE.

Zone ft. to ft.
Porosity Range Sw Range
Net Feet Probable Production
Comments: ALL OTHER ZONES APPEAR TOO WET OR TIGHT FOR PRODUCTION

Zone ft. to ft.
Porosity Range Sw Range
Net Feet Probable Production
Comments:

Zone ft. to ft.
Porosity Range Sw Range
Net Feet Probable Production
Comments:

Engineer DAVID INGRAHAM Date 7/28/87

COMPANY THE STONE PETROLEUM CORPORATION
WELL #1 SCHOOLER 16-8
FIELD RUNAMUCK
COUNTY ATCHISON STATE MISSOURI

Schlumberger