

WELL NAME: Mauch #1-32
COMPANY: Carmen Schmitt, Inc.
LOCATION: 32-17-26
Ness co KS
DATE: 9/22/00

ORIGINAL

API 15-135-241120000

C N2 S2 SE

990 FSL 1320 FEL



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Carmen Schmitt, Inc.

P.O. Box 47
Great Bend, Ks. 67530

ATTN: Carmen Schmitt

Mauch # 1-32

Sec32-17-26-Ness-Ks.

Job Ticket: 13856

DST#: 1

Test Start: 2000.09.14 @ 14:30:00

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (CF)

Time Tool Opened: 16:06:14

Time Test Ended: 19:58:00

Test Type: Conventional Bottom Hole

Tester: Dan Bangle

Unit No: 11

Interval: **4427.00 ft (CF) To 4460.00 ft (CF) (TVD)**

Total Depth: 4460.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 4218822543 ft (KB)

2515.00 ft (CF)

KB to GR/CF: 4218822291 ft

Serial #: 3024 Inside

Press@RunDepth: 168.83 kPag @ 4428.01 ft (CF)

Start Date: 2000.09.14

End Date: 2000.09.14

Start Time: 14:33:15

End Time: 22:33:44

Capacity: 49000.00 kPag

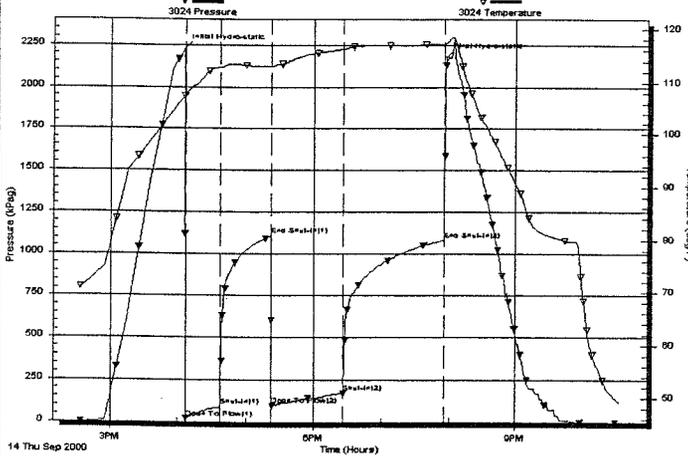
Last Calib.: 2000.09.20

Time On Btm: 2000.09.14 @ 16:05:44

Time Off Btm: 2000.09.14 @ 19:57:14

TEST COMMENT: IF-Weak-building to 11"
FF-BOB in 30 min

Pressure vs. Time



PRESSURE SUMMARY

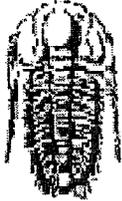
Time (Min.)	Pressure (kPag)	Temp (deg F)	Annotation
93	2223.73	107.42	Initial Hydro-static
93	17.57	107.52	Open To Flow (1)
124	88.46	112.79	Shut-In(1)
169	1107.85	112.95	End Shut-In(1)
169	96.21	112.98	Open To Flow (2)
234	168.83	116.30	Shut-In(2)
323	1082.68	117.26	End Shut-In(2)
324	2175.76	117.32	Final Hydro-static

Recovery

Length (m)	Description	Volume (m³)
0.10	340' gas in pipe	0.00
216.00	Clean gassy oil 10%g 90%o	1.53
186.00	Mud cut oil 70%o 30%g	1.32

Gas Rates

	Choke (mm)	Pressure (kPaa)	Gas Rate (m³/d)



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TOOL DIAGRAM

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Mauch # 1-32

P.O. Box 47
Great Bend, Ks. 67530

Sec32-17-26-Ness-Ks.

Job Ticket: 13856

DST#: 1

ATTN: Carmen Schmitt

Test Start: 2000.09.14 @ 14:30:00

Tool Information

Drill Pipe:	Length: 3986.00 ft	Diameter: 3.80 inches	Volume: 55.91 bbl	Tool Weight: 1000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Heavy Wt. Pipe:	Length: 441.00 ft	Diameter: 2.70 inches	Volume: 3.12 bbl	Weight to Pull Loose: 56000.00 lb
Drill Pipe Above KB:	21.00 ft			Tool Chased 0.01 ft
Depth to Top Packer:	4422.00 ft			String Weight: Initial 52000.00 lb
Depth to Bottom Packer:	ft			Final 54000.00 lb
Interval between Packers:	ft			
Tool Length:	54.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			4407.00	
S.I. Tool	5.00			4412.00	
HYD S.I. Tool	5.00			4417.00	
Packer	5.00			4422.00	16.00 Bottom Of Top Packer
Packer	5.00			4427.00	
Stubb	1.00			4428.00	
Recorder	0.01	3024	Inside	4428.01	
Perforations	27.00			4455.01	
Recorder	0.01	13254	Outside	4455.02	
Bullnose	5.00			4460.02	38.02 Bottom Packers & Anchor
Total Tool Length:	54.02				

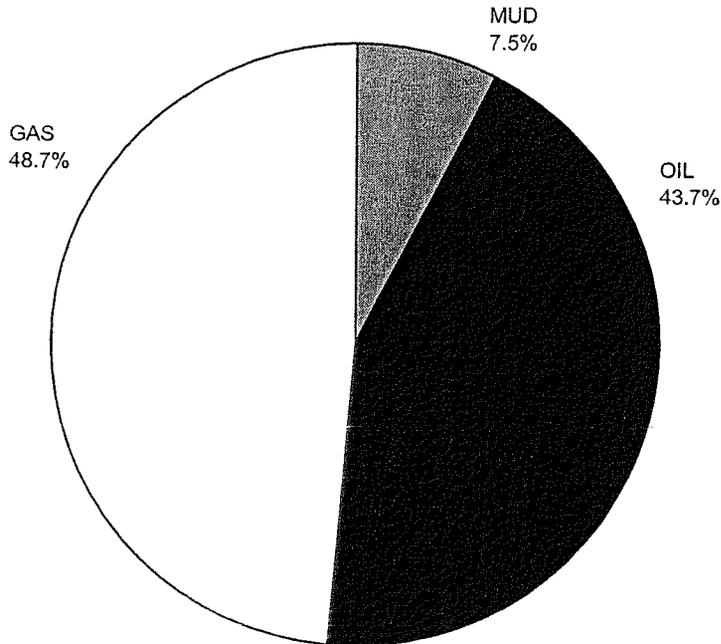
CALCULATED RECOVERY ANALYSIS

DST 1

TICKET 13856

SAMPLE #	TOTAL FEET	GAS		OIL		WATER		MUD	
		%	FEET	%	FEET	%	FEET	%	FEET
DRILL 1	340	100	340	0	0	0	0	0	0
PIPE 2	216	10	21.6	90	194.4	0	0	0	0
3	186	0	0	70	130.2	0	0	30	55.8
4	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0
WEIGHT 1	0	0	0	0	0	0	0	0	0
PIPE 2	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0
DRILL 1	0	0	0	0	0	0	0	0	0
COLLARS 2	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0
4	0	5	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0
TOTAL	742	0	361.6	0	324.6	0	0	0	55.8

BBL OIL= 4.615812 * HRS OPEN 1.3 = BBL/DAY 85.214991
 BBL WATER= 0 * = 0
 BBL MUD= 0.793476
 BBL GAS = 5.141952



Serial #: 3024

Inside

Carmen Schmitt, Inc.

Sec32-17-26-Ness-Ks.

Pressure vs. Time

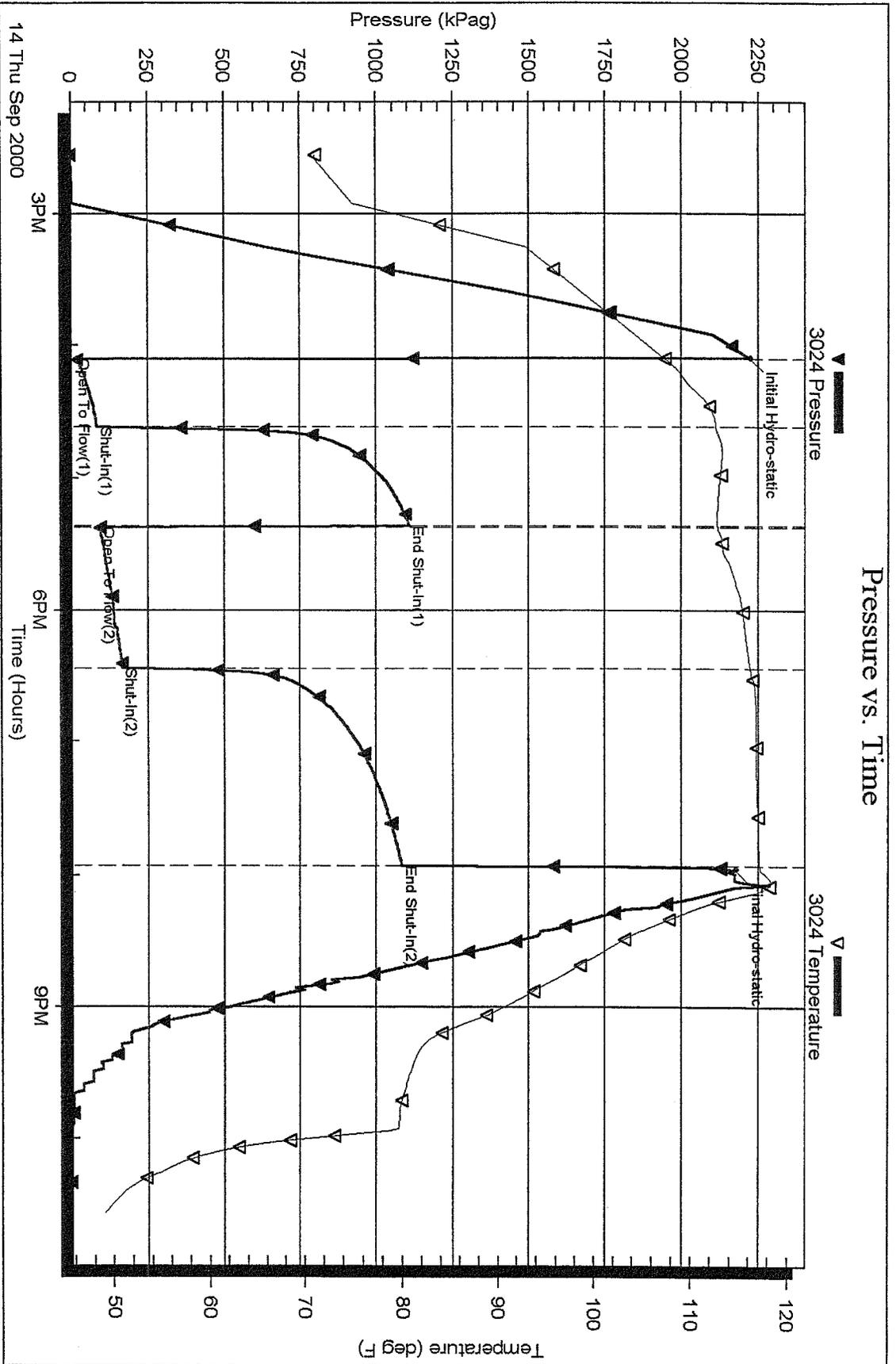
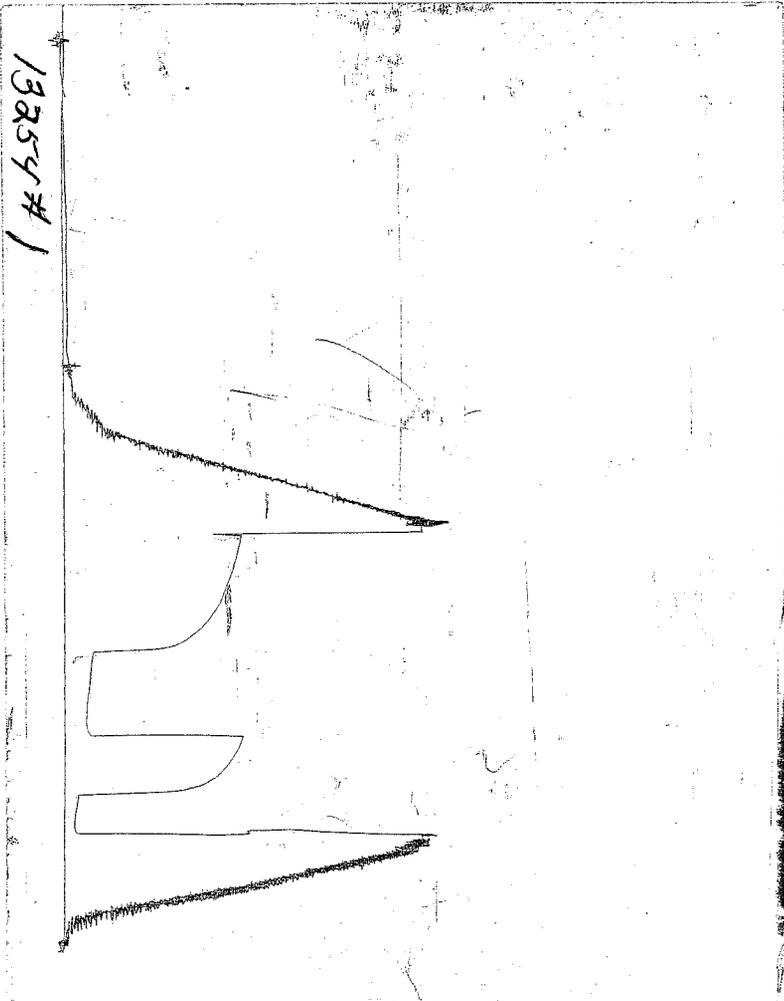


CHART PAGE



This is a photocopy of the actual AK-1 recorder chart

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Nº 13856

Test Ticket

Well Name & No. Mauch #1-32 Test No. 1 Date 9-20-00
 Company Carmen Schmitt, Inc Zone Tested Miss
 Address P.O. Box 47, Great Bend, Ks. 67530 Elevation 2520 KB 2515 GL
 Co. Rep / Geo. Rich O' Donnell Cont. Shields Est. Ft. of Pay Por. %
 Location: Sec. 32 Twp. 17 Rge. 26 Co. Nes5 State Ks
 No. of Copies Distribution Sheet (Y, N) Turnkey (Y, N) Evaluation (Y, N)

Interval Tested 4427 - 4460 Initial Str Wt./Lbs. 52,200 Unseated Str Wt./Lbs. 54,200
 Anchor Length 33 Wt. Set Lbs. 30,200 Wt. Pulled Loose/Lbs. 56,200
 Top Packer Depth 4422 Tool Weight 1000
 Bottom Packer Depth 4427 Hole Size — 7 7/8" Rubber Size — 6 3/4"
 Total Depth 4460 Wt. Pipe Run 441 XH Drill Collar Run
 Mud Wt. 9.4 LCM 1# Vis. 49 WL 10.4 Drill Pipe Size 4.5 FH Ft. Run 3986
 Blow Description I.F. Weak - building to 11" fair blow

E.F. Weak - building to fair B.O.B. in 30 min.

Recovery — Total Feet 402 GIP 340 Ft. in DC Ft. in DP 402
 Rec. 216 Feet Of CGSY 0 10% gas 90% oil %water %mud
 Rec. 186 Feet Of MCO %gas 70% oil %water 30% mud
 Rec. Feet Of %gas %oil %water %mud
 Rec. Feet Of %gas %oil %water %mud
 Rec. Feet Of %gas %oil %water %mud
 BHT 117 °F Gravity °API D@ °F Corrected Gravity 38 °API
 RW @ °F Chlorides ppm Recovery Chlorides 2500 ppm System

	AK-1	Alpine	PSI	Recorder No.	T-On Location
(A) Initial Hydrostatic Mud	<u>2231</u>	<u>2223</u>		<u>3024</u>	<u>14:00</u>
(B) First Initial Flow Pressure	<u>71</u>	<u>17</u>	PSI	(depth) <u>4428</u>	T-Started <u>14:33</u>
(C) First Final Flow Pressure	<u>94</u>	<u>88</u>	PSI	Recorder No. <u>13254</u>	T-Open <u>16:08</u>
(D) Initial Shut-In Pressure	<u>1098</u>	<u>1107</u>	PSI	(depth) <u>4455</u>	T-Pulled <u>19:58</u>
(E) Second Initial Flow Pressure	<u>154</u>	<u>96</u>	PSI	Recorder No. <u> </u>	T-Out <u>22:10</u>
(F) Second Final Flow Pressure	<u>189</u>	<u>168</u>	PSI	(depth) <u> </u>	T-Off Location <u>23:00</u>
(G) Final Shut-in Pressure	<u>1098</u>	<u>1082</u>	PSI	Initial Opening <u>30</u>	Test <u> </u>
(Q) Final Hydrostatic Mud	<u>2184</u>	<u>2175</u>	PSI	Initial Shut-in <u>45</u>	Jars <u> </u>
				Final Flow <u>60</u>	Safety Joint <u> </u>
				Final Shut-in <u>90</u>	Straddle <u> </u>
					Circ. Sub <u> </u>
					Sampler <u> </u>
					Extra Packer <u> </u>
					Elec. Rec. <u>X</u>
					Mileage <u>75</u>
					Other <u> </u>
					TOTAL PRICE \$ <u> </u>

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Approved By Rich O' Donnell
 Our Representative Dan Rangle