



**WELL COMPLETION FORM**  
**WELL HISTORY - DESCRIPTION OF WELL & LEASE**

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

- New Well       Re-Entry       Workover
- Oil       WSW       SWD       SIOW
- Gas       D&A       ENHR       SIGW
- OG       GSW       Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic       Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

- Deepening       Re-perf.       Conv. to ENHR       Conv. to SWD
- Conv. to GSW
- Plug Back: \_\_\_\_\_ Plug Back Total Depth \_\_\_\_\_
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

Spud Date or Recompletion Date      Date Reached TD      Completion Date or Recompletion Date

API No. 15 - \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE       NW       SE       SW

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

**Drilling Fluid Management Plan**

(Data must be collected from the Reserve Pit)

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite: \_\_\_\_\_

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

**AFFIDAVIT**

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

**KCC Office Use ONLY**

- Letter of Confidentiality Received  
Date: \_\_\_\_\_
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_



1066599

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i>  List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
_____ Perforate _____ Protect Casing _____ Plug Back TD _____ Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:      Size: \_\_\_\_\_ Set At: \_\_\_\_\_ Packer At: \_\_\_\_\_ Liner Run:  Yes  No

Date of First, Resumed Production, SWD or ENHR. \_\_\_\_\_ Producing Method:  
 Flowing    Pumping    Gas Lift    Other *(Explain)* \_\_\_\_\_

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	Raymond Oil Company, Inc.
Well Name	Michaud Trust 4
Doc ID	1066599

All Electric Logs Run

Sonic
Micro
Dual Ind
Density/Neutron



**CONSOLIDATED**  
Oil Well Services, L.L.C.

PO Box 884, Chanute, KS 66720  
620-431-9210 or 800-467-8676

**FIELD TICKET & TREATMENT REPORT**  
**CEMENT**

TICKET NUMBER 28128  
LOCATION Oakley Ks  
FOREMAN Kelly Gable  
Walt Dinkel  
Ks

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY	
7-18-11	7158	Michaud Trust #4	21	18 <sup>s</sup>	27 <sup>w</sup>	Lane	
CUSTOMER <u>Raymond Oil Co.</u>		MAILING ADDRESS <u>Alamota</u> <u>496th</u> <u>15-45</u>		TRUCK #	DRIVER	TRUCK #	DRIVER
CITY		STATE	ZIP CODE	<u>399</u>	<u>Miles Shaw</u>	<u>460</u>	<u>Hardentrock</u>

JOB TYPE Surface-D HOLE SIZE 12 1/4 HOLE DEPTH 265' CASING SIZE & WEIGHT 8 5/8-20 #  
 CASING DEPTH 264' DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT 15.2 SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING 20'+  
 DISPLACEMENT 15 BBL DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE 6 BPM

REMARKS: Safety Meeting, Rig up to cure on Duke #1  
Mix 175 sks com, 3% cc - 2% cel, Displace 15 BBL H2O  
Cement Did Cure

Thank You  
Kelly Gable

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
54015	1	PUMP CHARGE	1,025 <sup>00</sup>	1,025 <sup>00</sup>
5406	30	MILEAGE	5 <sup>00</sup>	150 <sup>00</sup>
11045	17.5 sks	<del>17.5</del> sks class A Cement	16 <sup>80</sup>	2,940 <sup>00</sup>
1102	492 #	Calcium Chloride	.84	413 <sup>28</sup>
118.B	328 #	Bentonite	.24	78 <sup>72</sup>
5407	8.23	Ton Mileage Delivery	158	410 <sup>00</sup>
				5,017 <sup>00</sup>
				752 <sup>55</sup>
				4,264 <sup>45</sup>
				63
				SALES TAX 483.79
				ESTIMATED TOTAL -4448.24

Ravin 3737

AUTHORIZATION John Crasheater TITLE \_\_\_\_\_ DATE 7-18-11

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form





TICKET NUMBER 28140

LOCATION Oakley

FOREMAN Fuzzy

PO Box 884, Chanute, KS 66720  
620-431-9210 or 800-467-8676

### FIELD TICKET & TREATMENT REPORT CEMENT

KS

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
7-28-11	7158	Michaud Trust #4	21	18	27W	LANE
CUSTOMER <u>Raymond Oil Co.</u>		DISTON ← Turkey Road 1 1/2 mi				
MAILING ADDRESS						
CITY	STATE	ZIP CODE	TRUCK #	DRIVER	TRUCK #	DRIVER
			463	Josh G		
			566	Cabin H		
				Damon M		

JOB TYPE 2 stage HOLE SIZE 7718 HOLE DEPTH 5046 CASING SIZE & WEIGHT 5 1/2 15.5  
 CASING DEPTH 4927' DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER DU @ 1940'  
 SLURRY WEIGHT 12.5-14.2 SLURRY VOL 1.89-1.24 WATER gal/sk 10.8-5.6 CEMENT LEFT in CASING 42 1/4  
 DISPLACEMENT 70 mud DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE \_\_\_\_\_

REMARKS: 46 water  
safety meeting on Duke #2. Rig up and circulate  
Pump 5 BBL water, mix 290 sks 60/40 2% gel. Wash pump + lines  
Drop plug and displace to latchdown with 70 BBL water + 47 BBL mc  
hft press 900# land @ 1500# drop DU Bomb wait 15 min open  
DU Tool @ 1200# circulate 45 min, Pump 5 BBL water, mix  
20 sks in ml, 30 sks in RH. Mix 400 sks 60/40 8% gel 1 1/4"  
Close seal down 5 1/2 csg. Wash pump + lines, Drop plug and  
displace 46 1/4 BBL water hft press 700# close tool + land  
plug @ 1600# cement did circulate in cellat Thanks Fuzzy  
(Set Packer shoe with 1200# PSI) + circ

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401P	1	PUMP CHARGE	2950 <sup>00</sup>	2950 <sup>00</sup>
5406	20	MILEAGE	5 <sup>00</sup>	100 <sup>00</sup>
5407A	31.8 ton	Tow mileage Delivery	1 <sup>58</sup>	1004 <sup>80</sup>
1131	290 sks	60/40 pos	14 <sup>35</sup>	4161 <sup>50</sup>
1131	450 sks	60/40 pos	14 <sup>35</sup>	6457 <sup>50</sup>
118B	3595 #	Bentonite	24	8628 <sup>00</sup>
1107	113 #	Floesol	2 <sup>60</sup>	300 <sup>58</sup>
4253	1	5 1/2 Packer shoe	1760 <sup>00</sup>	1760 <sup>00</sup>
4283	1	DU Tool w/ latchdown - 5 1/2	3850 <sup>00</sup>	3850 <sup>00</sup>
4104	1	5 1/2 BASKET	276 <sup>00</sup>	276 <sup>00</sup>
4130	7	5 1/2 Centralizers	58 <sup>00</sup>	406 <sup>00</sup>
		22129 <sup>18</sup>	sub total	22129 <sup>18</sup>
			less 1590 disc	3319 <sup>38</sup>
				18809 <sup>80</sup>
			639 <sup>00</sup>	SALES TAX 967 <sup>89</sup>
				ESTIMATED TOTAL 19777 <sup>69</sup>

AVIN 3737  
 AUTHORIZATION \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form

# KIM B. SHOEMAKER

CONSULTING GEOLOGIST

318-884-9709 \* WICHITA, KS

## GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY <u>RAYMOND OIL COMPANY, INC.</u>	ELEVATIONS
LEASE <u># 4 MICHAUD TRUST</u>	KB <u>2698</u>
FIELD <u>ALAMOTA WEST</u>	DF _____
LOCATION <u>1125' FSL &amp; 835' FEL</u>	GL <u>2690</u>
SURFACE <u>21</u> <u>18s</u> <u>27w</u>	Measurements At: All
COUNTY <u>LANE</u> STATE <u>KANSAS</u>	From <u>2698 KB</u>
CONTRACTOR <u>DUKE DRILLING CO. RIG 2</u>	CASING
SPUD <u>7-18-11</u> COMP <u>7-28-11</u>	SURFACE <u>8.5/8" @ 264'</u>
RTD <u>5045</u> LTD <u>4826</u> *	PRODUCTION <u>5 1/2" @</u>
MUD UP <u>3550</u> TYPE MUD <u>CHEMICAL</u>	ELECTRICAL SURVEYS
	DUAL IND. + DENSG. - N.
	MICRO. SONIC

SAMPLES SAVED FROM _____	<u>3700</u>	TO	<u>5045</u>
DRILLING TIME KEPT FROM _____	<u>3900</u>	TO	<u>5045</u>
SAMPLES EXAMINED FROM _____	<u>3700</u>	TO	<u>5045</u>
GEOLOGICAL SUPERVISION FROM _____	<u>3900</u>	TO	<u>5045</u>
GEOLOGIST ON WELL	<u>KIM B. SHOEMAKER</u>		

FORMATION TOPS	LOG	SAMPLES	
<u>ANHYDRITE</u>	<u>2055 + 643</u>	<u>2058 + 640</u>	
<u>B/ ANH.</u>	<u>2084 + 614</u>	<u>2087 + 611</u>	
<u>WAB. STOTLER</u>	<u>3514 - 816</u>	<u>3515 - 817</u>	
<u>HEEBNER</u>	<u>3937 - 1239</u>	<u>3940 - 1242</u>	
<u>LANSING</u>	<u>3974 - 1276</u>	<u>3977 - 1279</u>	
<u>STARK</u>	<u>4240 - 1542</u>	<u>4241 - 1543</u>	
<u>MARMATON</u>	<u>4342 - 1644</u>	<u>4347 - 1649</u>	
<u>FORT SCOT</u>	<u>4492 - 1794</u>	<u>4492 - 1794</u>	
<u>CHEROKEE</u>	<u>4516 - 1818</u>	<u>4516 - 1818</u>	
<u>MISSISSIPPI</u>	<u>4608 - 1910</u>	<u>4609 - 1911</u>	

REMARKS

7.18.11 5 PUD  
 7.19 @ 510'  
 7.20 @ 2415'  
 7.21 @ 3210'  
 7.22 @ 3790'  
 7.23 @ 4330'  
 7.24 @ 4355'  
 7.25 @ 4531'  
 7.26 @ 4610'  
 7.27 @ 4826'  
 7.28 @ 5045'

\* Well was logged @ 4826

APL: 15-101-22297

Additional Tops (Sample)

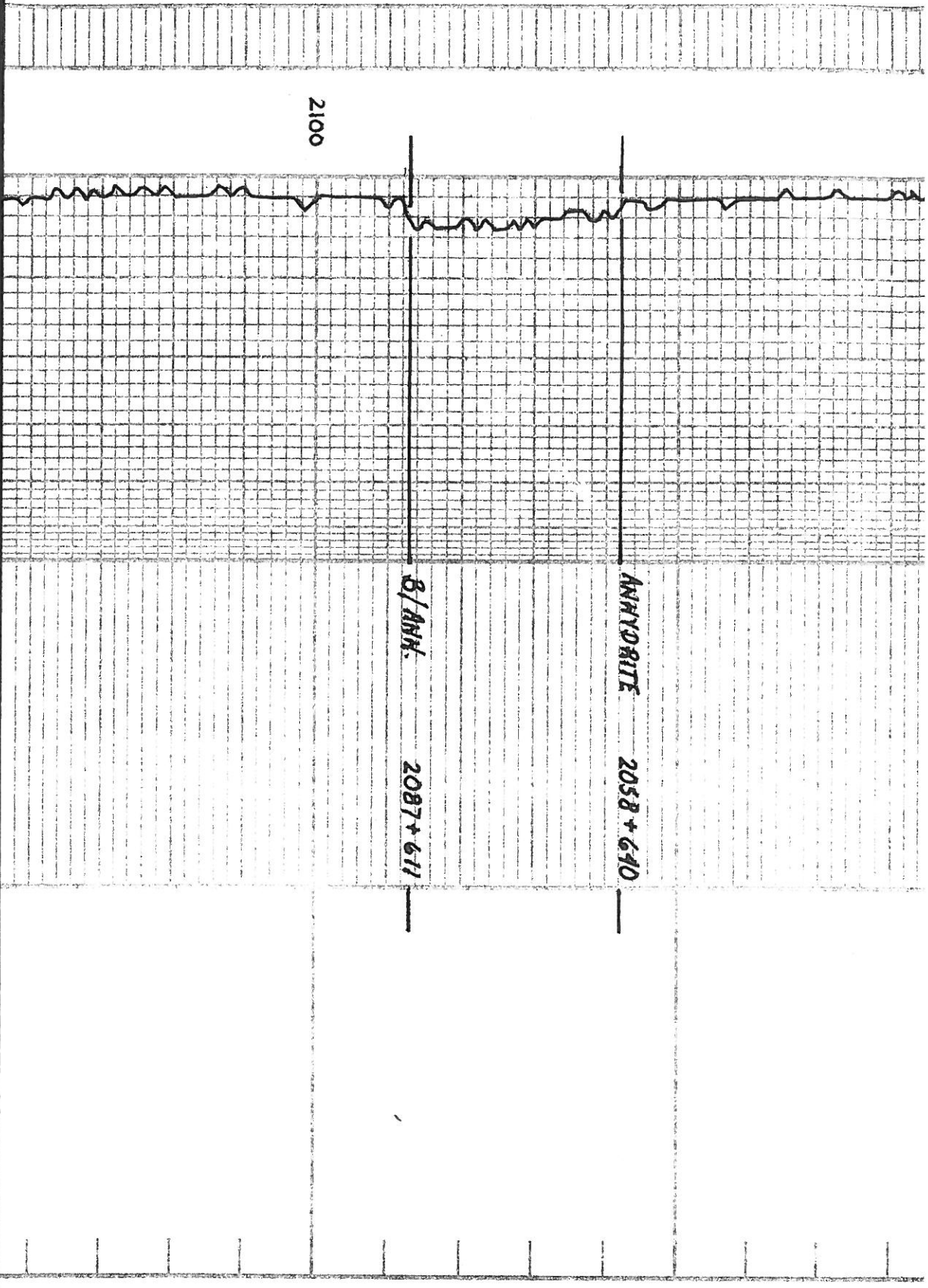
Miss. Sq. 4639-1911  
 Miss. Stage 4716-2018  
 Villa 4888-2190  
 A.S. 4952-2254  
 RTD 5045-2347

LEGEND

- Anhydrite
- Salt
- Sandstone
- Slate
- Carb sh
- Limestone
- Red Lims
- Chert
- Concretion

LITHOLOGY	DRILLING TIME IN MINUTES PER FOOT					SAMPLE DESCRIPTIONS	REMARKS
	5"	10"	15"	20"	25"		
2000	Rate of Penetration increases						



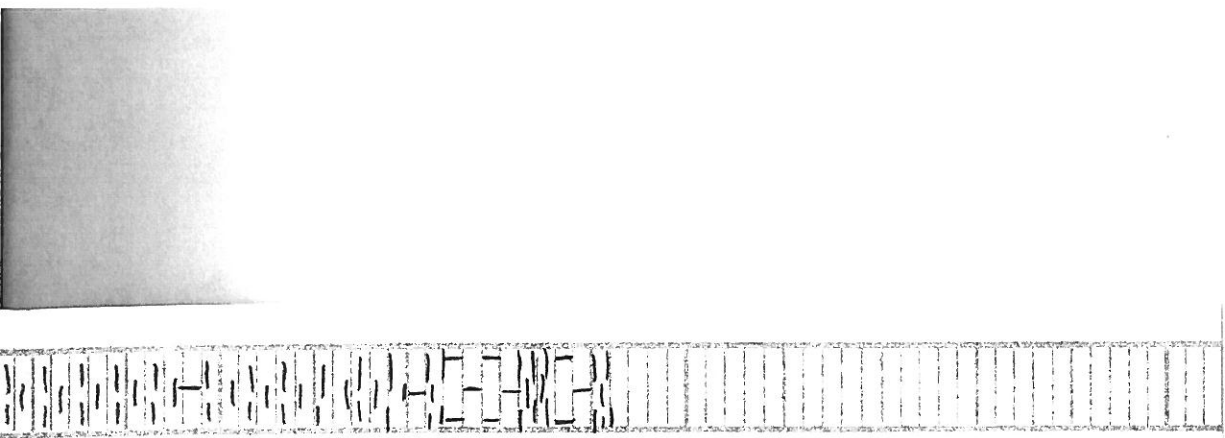


2100

ANHYDRITE 2058 + 640

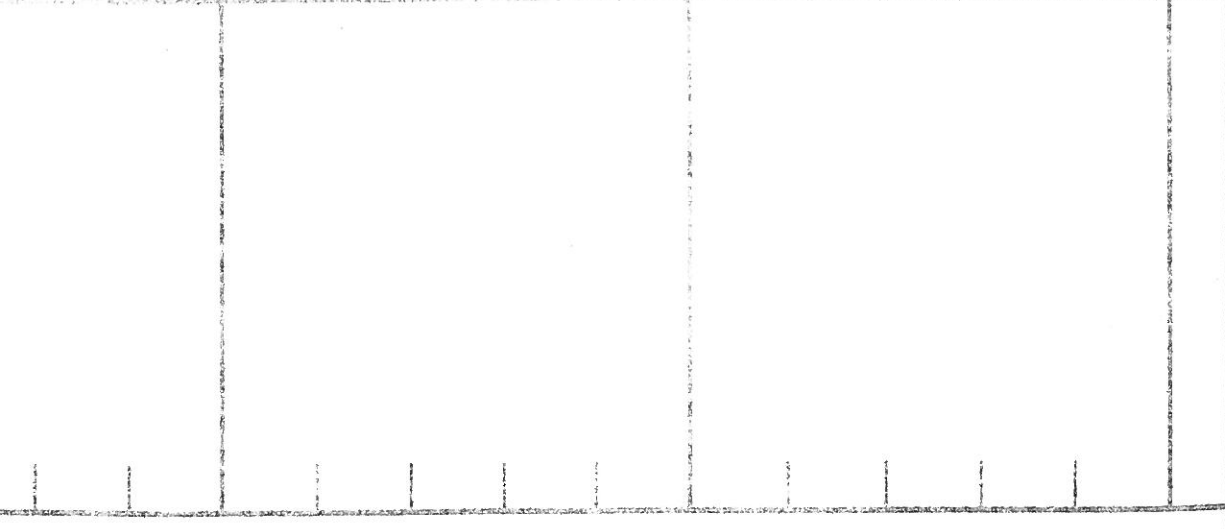
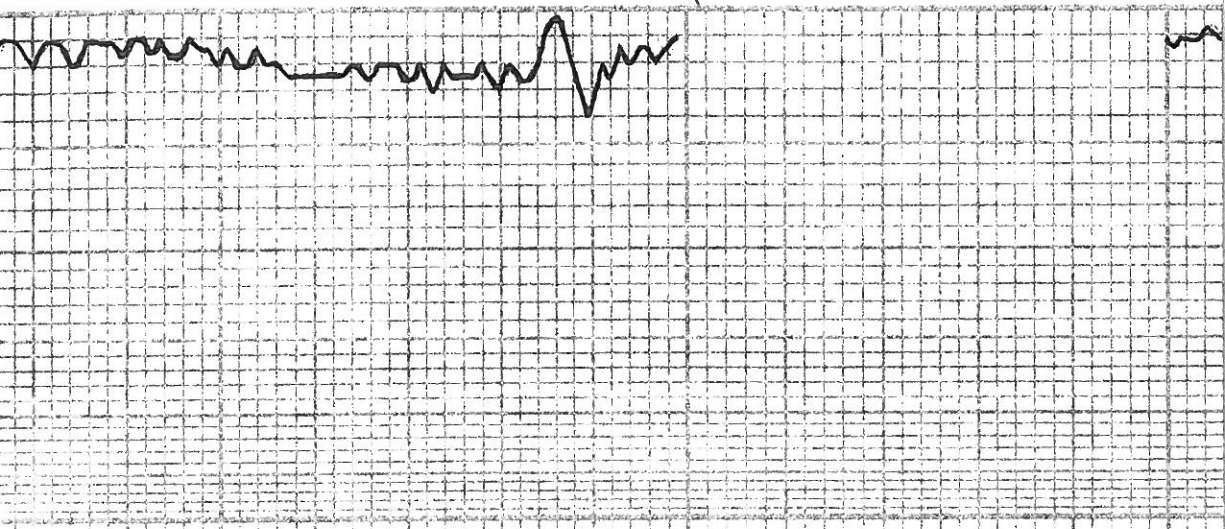
8/ANH. 2087 + 611





2150

3400



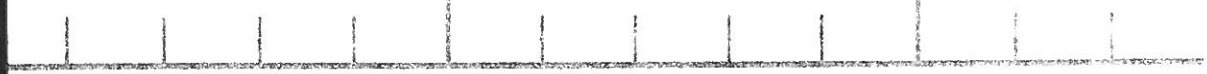


3500



LOST CIR @ 3550  
DISPLACED @ 3550

WING STOLTER 3515-817





3600

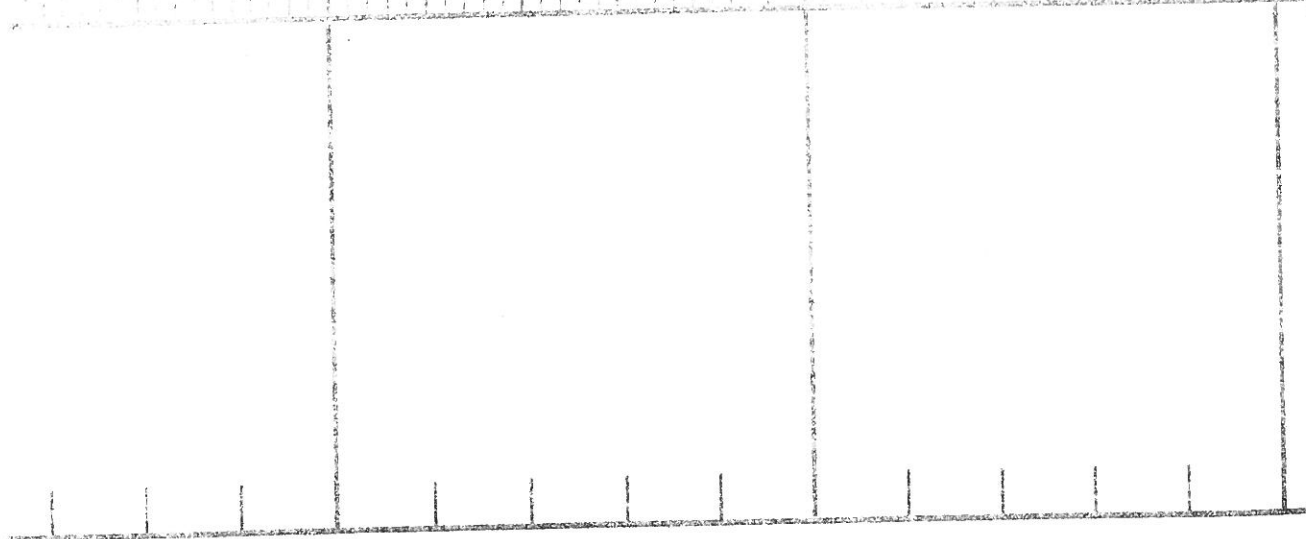
3700



Samples are lagged

15. wt. T<sub>n</sub> fossil. electric.

15. T<sub>n</sub> 44. wt. fossil.



3800



VIS: 746  
 WT: 8.9  
 WC: 8.5  
 CM: 2300

15. wt. To Ross. vol. calcitic.

15. 7. 14. 9. vsi. Ross.

5h. Dipole.

15. wt. 5h. Ross vsi. call.

15. 7. 14. 9. vsi. Ross.

15. 7. wt. 5h. A

5h. Dip. bit.

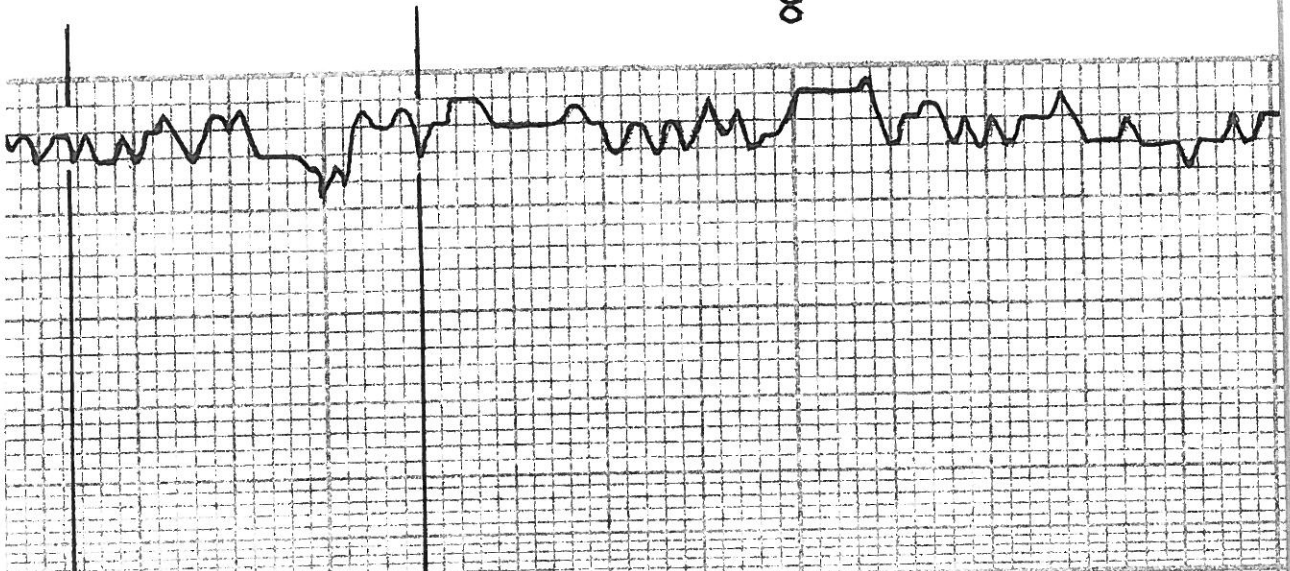
5h. 14. 9. 5. 14. 9.

15. wt. 5h. Ross. call.

15. wt. 5h. 14. 9. 5. 14. 9. call.



3900



54. 4. 4.

4. 4. 4. 4. 4. 4.

54. 4. 4.

4. 4. 4. 4. 4. 4.

4. 4. 4. 4. 4. 4.

4. 4. 4. 4. 4. 4.

4. 4. 4. 4. 4. 4.

**HEBNER**  
 34. 4. 4. 4. 4. 4.  
 35. 4. 4. 4. 4. 4.

54. 4. 4.

4. 4. 4. 4. 4. 4.

4. 4. 4. 4. 4. 4.

34. 4. 4. 4.

**LANSING**

**3977-1279**

4. 4. 4. 4. 4. 4.

39. Bl. 44-64  
**LANSING** 3977-1279

45. wt 44, 1841.5116

4 wt 4000

41. 7.4. Don  
50. 1444

45. 7. 8. Du.

36. 4444

43. wt 516. 800. 4444

54. 644

41. wt 444. 400. 516. 4444

45. 4. Don

64. 4

41. wt 444. 516. 400.

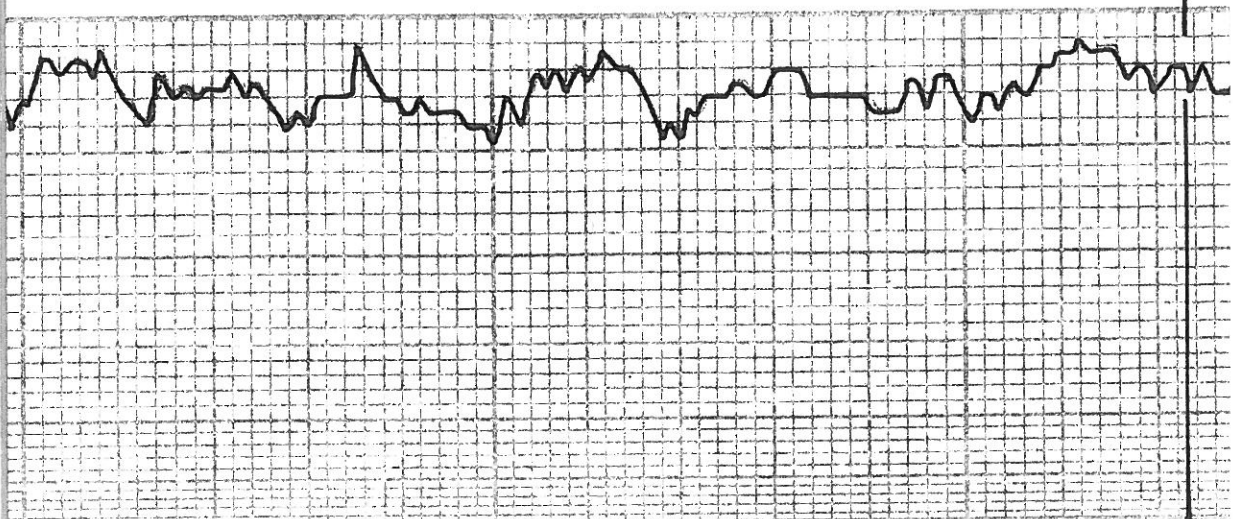
4 wt 4

45. wt 444. 4444

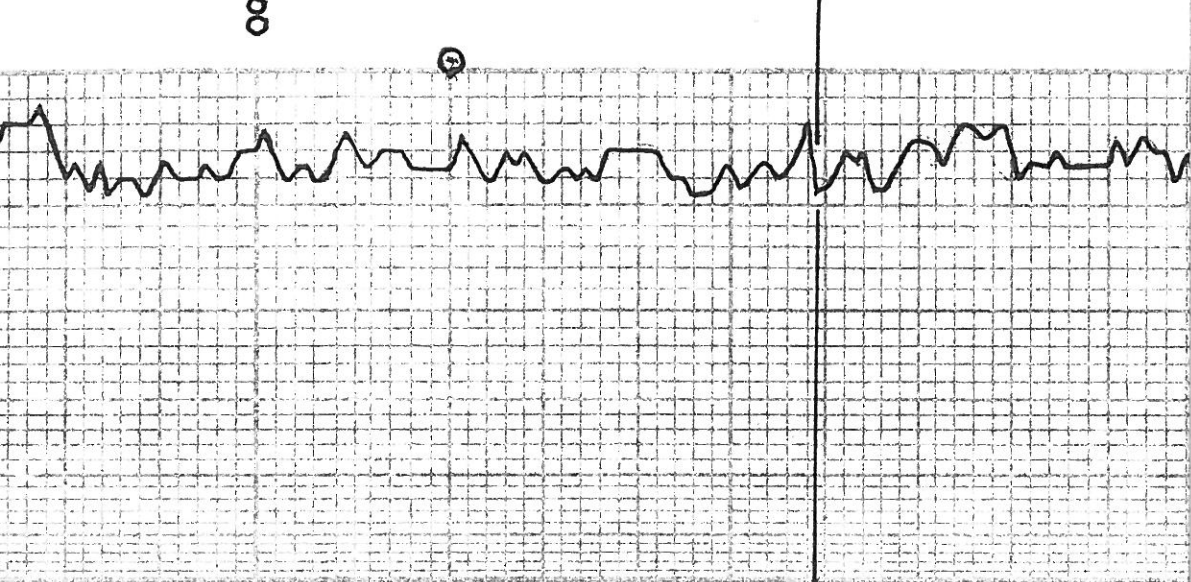
41. wt 444. 400. 516. 4444

4100

4000



4200



LS. wt. chly.

LS. G. Dai.

LS. wt. chly. VSI: Foss.

LS. G. S. D.

**MUNCIE CREEK 4141-1443**  
Sh. Blk (2nd. (CALLO))

LS. Bl. VSI: Foss.

LS. G.

LS. wt. chly.

LS. wt. chly. VSI: Foss.

LS. G. VSI: A

LS. OK. G. VSI: Foss.

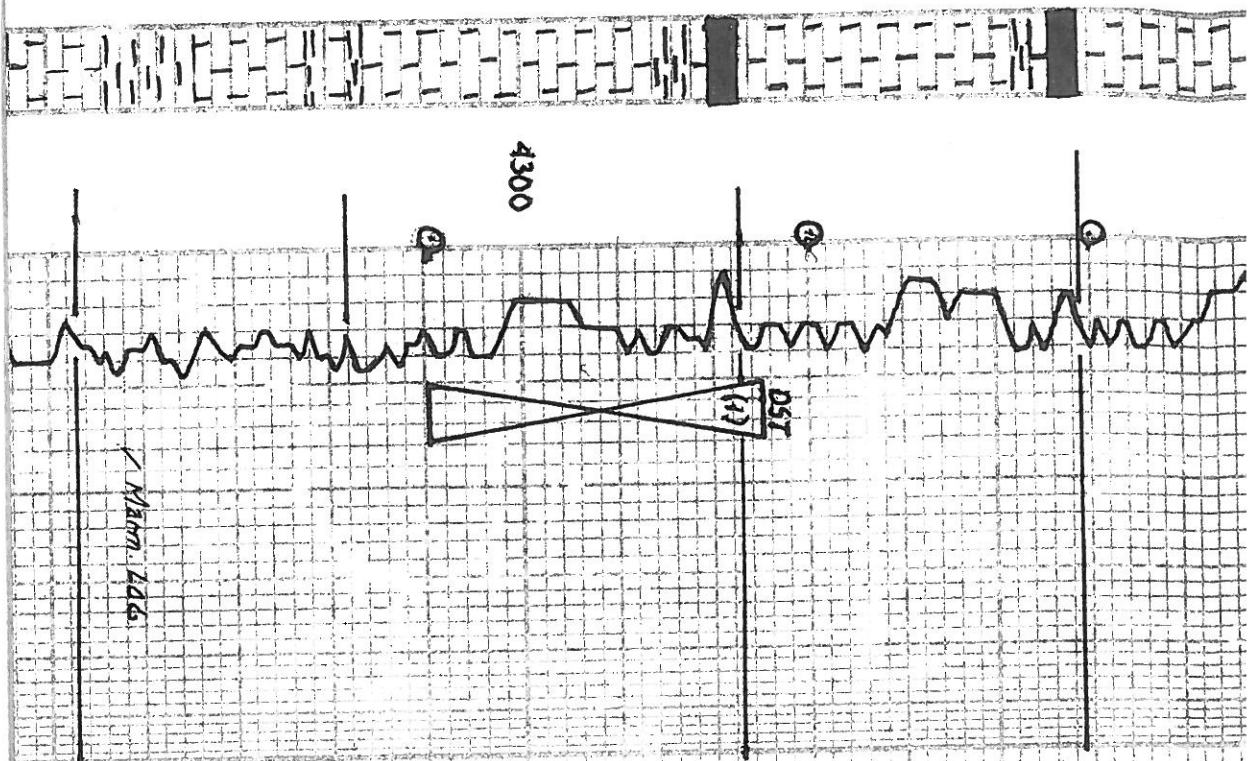
LS. G. G.

LS. G. S: A

LS. T. wt. S: Foss. VSI: chly.  
A G. S: Foss.

LS. chly. Soss?

LS. chly. S: wt. Foss. S: A S: chly.



LS. 1/4. 3/8. oak. fossil. Si. A. Si. chly.

LS. 1/4. Du.

**STARK** 4241-1843  
Sh. Blk. Camb.

LS. 3/4. oak. Givels.

LS. 1/4. VSi. Bill.

**HUSHPOCKNEY** 4277-1579  
Sh. Blk. Camb. B. VSi. Foss.

Sh. 1/4.

LS. 1/4. Du. Calc. chly.

LS. 1/4. VSi. Foss. VSi. chly.  
No stem, No flow, No chon

LS. 3/4. VSi. A

**B/KC** 4318-1620

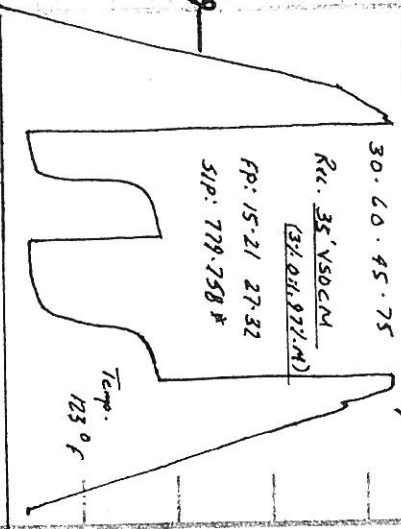
LS. 3/4. VSi. A. VSi. Calc. chly.

Sh. 1/4. Silly.

**MARMATON** 4347-1649  
LS. 1/4. VSi. Foss. VSi. Calc. chly. Xhd  
De. Blk. Blk. dd. Sil. VSS. FO. Ch. Blk. Blk.  
No flow.

**DST (1) 4275-4310**

1580ft: Blow built to 1/8"  
2nd DEN: No Blow



Rd. 35.150 CM

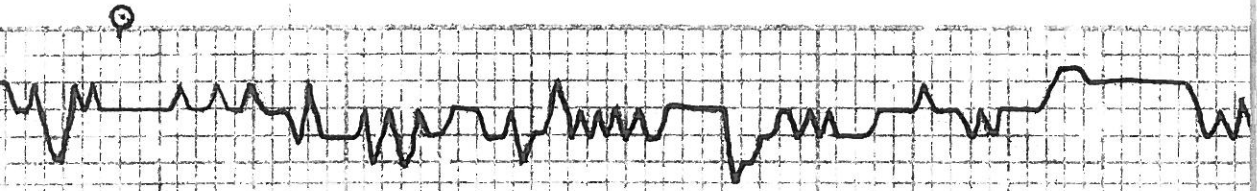
(31.01.872.4)

RP: 15-21 27-32

SIP: 779-758 \*

Temp. 123 ° F

4400

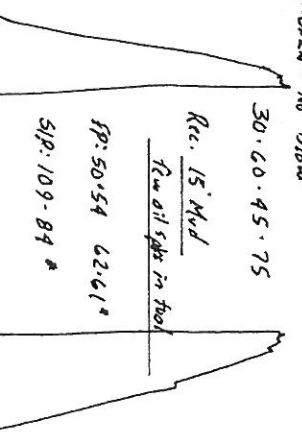


DST (2)

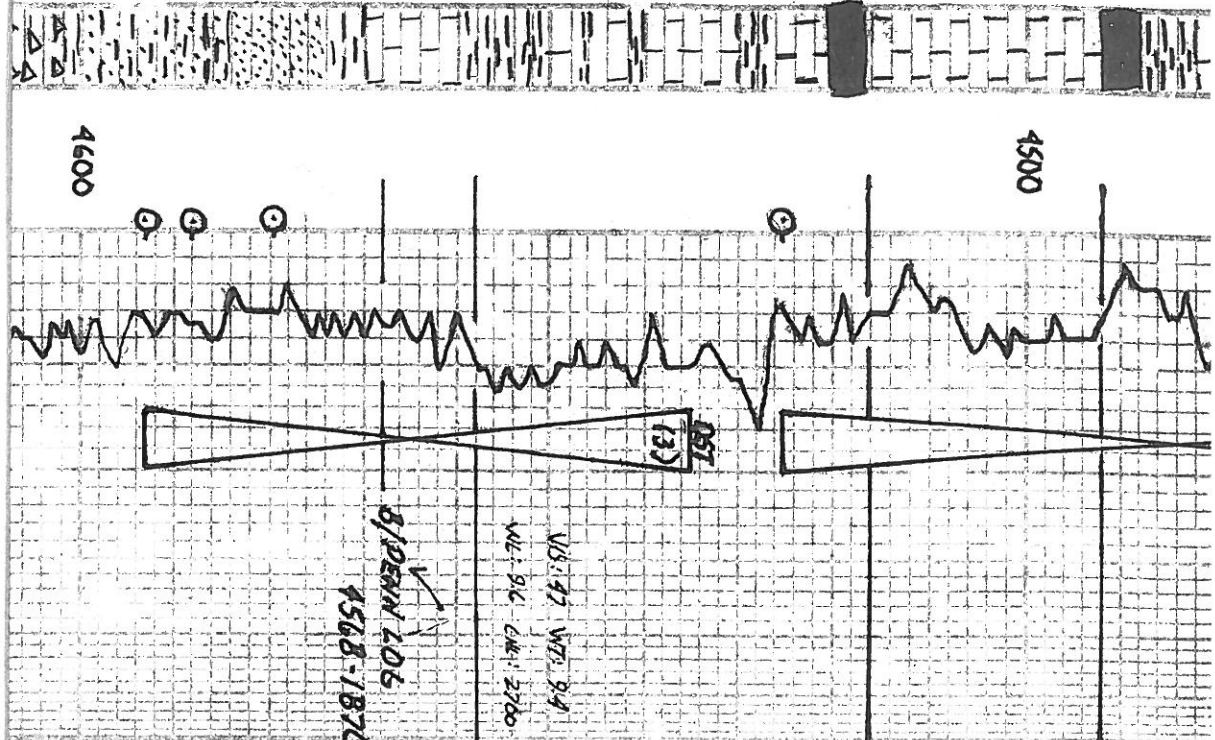
VIS: 37  
 WT: 84  
 WT: 10.0  
 CWT: 3000

- 54. 6.6. g. Grey.
- 55. wh clay, yellow sh. f. sh. sh. Δ
- 56. R. Rd.
- 57. T. yellow sh. Δ
- 58. clay. Dm.
- 59. wh. clay. wh. f. sh. sh. Δ
- 60. R. Rd.
- 61. T. yellow sh. Δ
- 62. wh. clay. wh. f. sh. sh. Δ
- 63. wh. sh. f. sh. sh. sh. Δ
- 64. wh. sh. f. sh. sh. sh. Δ
- 65. wh. sh. f. sh. sh. sh. Δ
- 66. wh. sh. f. sh. sh. sh. Δ
- 67. wh. sh. f. sh. sh. sh. Δ
- 68. wh. sh. f. sh. sh. sh. Δ
- 69. wh. sh. f. sh. sh. sh. Δ
- 70. wh. sh. f. sh. sh. sh. Δ

**DST (2) 4400-4525**  
 15000: Blow died 15 min.  
 20000: No blow  
 30. 60. 45. 75  
 Rec. 15' Mud  
 Few oil spots in tool  
 SP: 50.54 62.61  
 SIP: 109.84







Sd. dk. g. silty  
 Sd. blk. c. ool.  
**FORT SCOTT 4492-1794**

Sd. blk. c. ool. calcifer. B. lg. o.  
 T. R. S. Sh. T. R. Fd. Dill. Flour. No. 1000.  
 A. R. g. ool. (9510) No. 1000.

Sd. Trawl V.S.I. Fair. S.I. Δ

Sd. Trawl V.S.I. Fair. S.I. Δ

Sd. blk. 1306

**CHEROKEE 4516-1818 (4525)**

Sd. blk. 1306

Sd. blk. 1306

Sd. blk. 1306

Sd. blk. 1306

Sd. blk. 1306

Sd. blk. 1306

Sd. blk. 1306

Sd. blk. 1306

Sd. blk. 1306

Sd. blk. 1306

Sd. blk. 1306

Sd. blk. 1306

SIP: 109-84

Temp. 120° F

Temp. 120° F

Temp. 120° F

Temp. 120° F

Temp. 120° F

Temp. 120° F

Temp. 120° F

Temp. 120° F

Temp. 120° F

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Temp. 120° F

Temp. 120° F

Temp. 120° F

Temp. 120° F

Temp. 120° F

Temp. 120° F

**DST(3) 4535-4593**

1500EN: surface blow

2100EN: very weak suit. blow

30-60-45-75

Rec. 10' Hrd

FPI: 34-40 37-41\*

SIP: 139-70 \*

Temp. 128° F

Temp. 128° F

Temp. 128° F

Temp. 128° F

Temp. 128° F

Temp. 128° F

Temp. 128° F

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Temp. 128° F

Temp. 128° F

Temp. 128° F

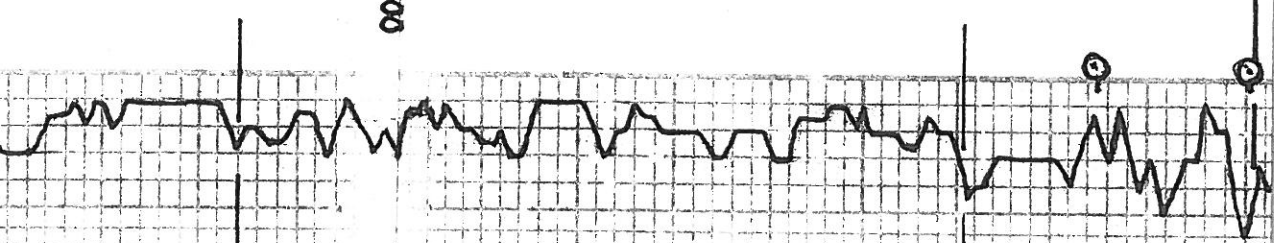
Temp. 128° F

Temp. 128° F

Temp. 128° F



4700



VIS: 58  
 WTS: 845  
 W/L: 10.4  
 GNC: 3200

MISSISSIPPI 4609-1911

65 wt. To. ool. V. 415.  
 45 wt. V. 415.  
 45 wt. ool. V. 415.

41 To. wt. ool. 58 415.  
 51 415.

MISS. SPERGEN 4639-1941

ool. To. V. 415. 500.

ool. To. V. 415. 511. 600. 500.

ool. To. V. 415. 514. 600. 500.

ool. To. V. 415. 511. 600. 500.

MISS. OSAGE 4716-2018

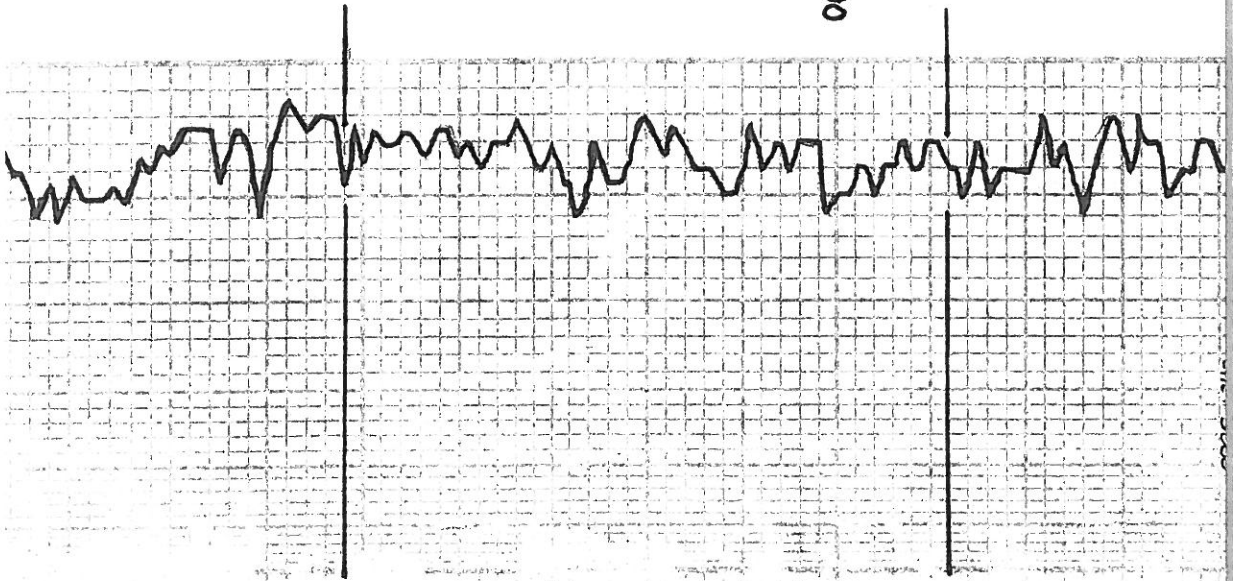
4 wt. V. 415. Fresh ool. V. 415.

To. 4 wt. 7100.

To. 4 wt. 7100. V. 415. 500.



4900



Dbl. To LIBG. Exln

Ay.

VIOLA

4888-2190

Dbl. G. Exln Dm.

Dbl. G. Exln

Dbl. G. Exln VEXLN SUC.

15. Wt Vally.

Dbl. Exln Dm.

ARBUCKLE 4952-2259

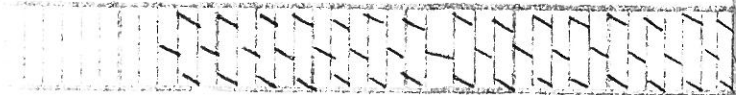
Dbl. To VEXLN SUC.

Dbl. To VEXLN SUC.

Dbl. To VEXLN SUC.



5000



BIT TAIP @ 1990

A wt.

Dol. Ta LLY. Fa Xh 500.

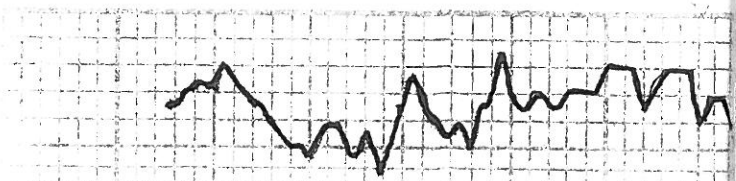
Dol. Ta MLXh 'Plumbic'  
Cd Xh 0

Dol. Ta Fa. MLXh

Dol. Ta LFR. ML. LXXh. Xh Cd B

RTD 5045-2317

LOST CIRC.





**TRILOBITE TESTING, INC.**

**DRILL STEM TEST REPORT**

Raymond Oil Co Inc  
 Box 48788  
 Wichita, KS 67202-1822  
 ATTN: Clarke Sandberg

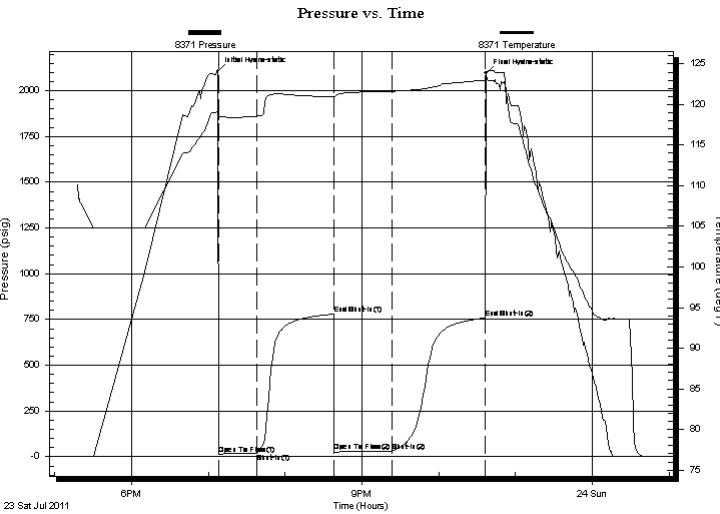
**Michaud Trust #4**  
**21 18s 27w Lane KS**  
 Job Ticket: 43228 **DST#: 1**  
 Test Start: 2011.07.23 @ 17:17:46

**GENERAL INFORMATION:**

Formation: **Lansing 220**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 19:07:46  
 Time Test Ended: 00:41:01  
 Interval: **4275.00 ft (KB) To 4310.00 ft (KB) (TVD)**  
 Total Depth: 4310.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole  
 Tester: Paul Simpson  
 Unit No: 28  
 Reference Elevations: 2698.00 ft (KB)  
 2690.00 ft (CF)  
 KB to GR/CF: 8.00 ft

**Serial #: 8371 Outside**  
 Press @ Run Depth: 32.12 psig @ 4275.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2011.07.23 End Date: 2011.07.24 Last Calib.: 2010.10.30  
 Start Time: 17:17:47 End Time: 00:41:01 Time On Btm: 2011.07.23 @ 19:07:31  
 Time Off Btm: 2011.07.23 @ 22:37:01

**TEST COMMENT:** IF- weak surface blow building to 1/8"  
 FF- no blow  
 30-60-45-75



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2106.83	119.12	Initial Hydro-static
1	15.32	118.12	Open To Flow (1)
31	20.63	118.58	Shut-In(1)
91	779.51	120.99	End Shut-In(1)
91	27.01	120.69	Open To Flow (2)
136	32.12	121.63	Shut-In(2)
209	758.00	122.98	End Shut-In(2)
210	2095.33	124.03	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
35.00	oil specked mud 3%O 97&M	0.49

Gas Rates			
	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Raymond Oil Co Inc

**Michaud Trust #4**

Box 48788  
Wichita, KS 67202-1822

**21 18s 27w Lane KS**

Job Ticket: 43228      **DST#: 1**

ATTN: Clarke Sandberg

Test Start: 2011.07.23 @ 17:17:46

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 49.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.97 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: ppm			
Filter Cake: inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
35.00	oil specked mud 3%O 97&M	0.491

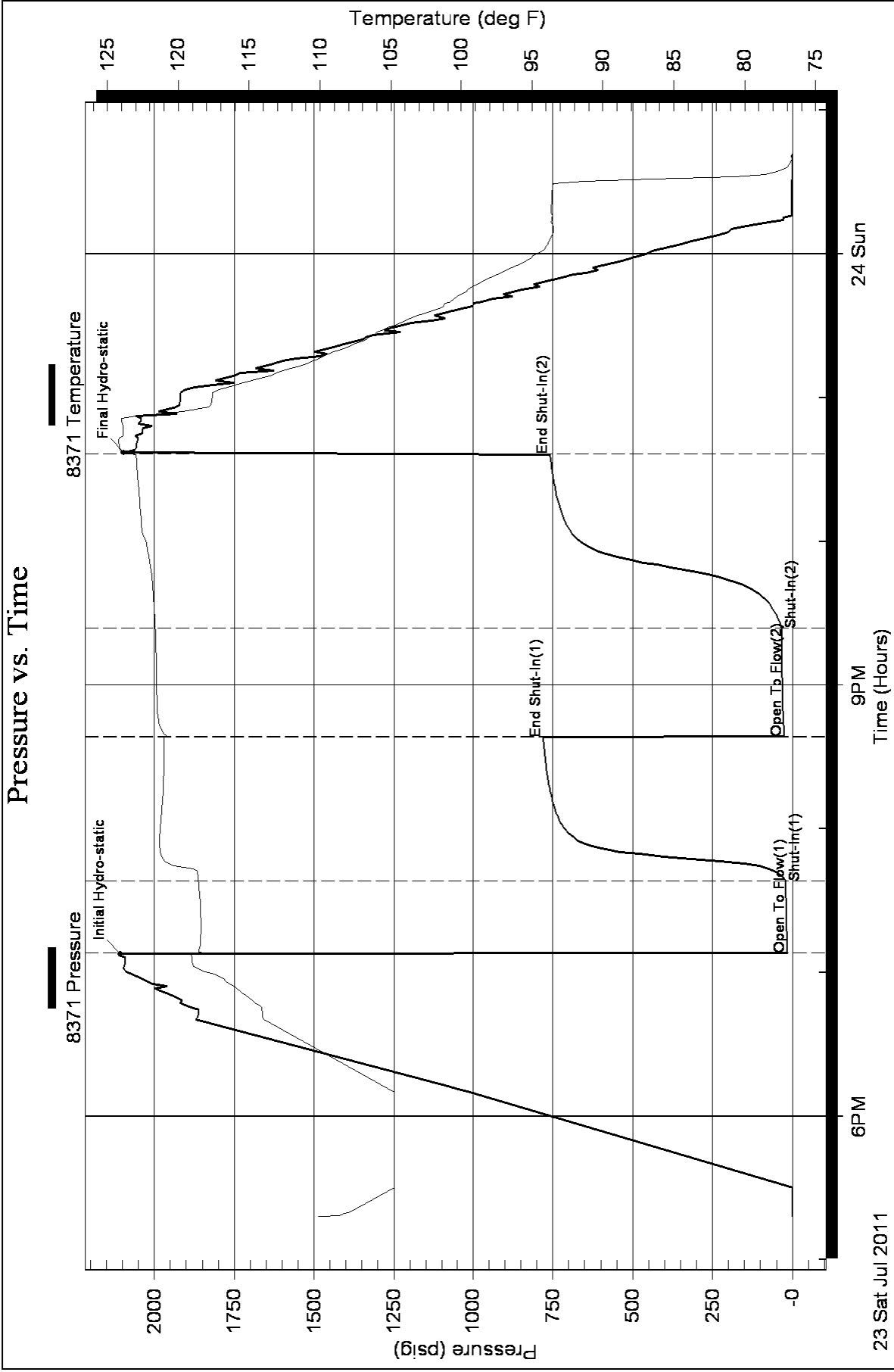
Total Length: 35.00 ft      Total Volume: 0.491 bbl

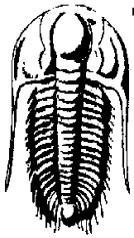
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments:

### Pressure vs. Time





# TRILOBITE TESTING, INC.

## DRILL STEM TEST REPORT

Raymond Oil Co Inc

Box 48788  
Wichita, KS 67202-1822

ATTN: Clarke Sandberg

**Michaud Trust #4**

**21 18s 27w Lane KS**

Job Ticket: 43229

**DST#: 2**

Test Start: 2011.07.24 @ 19:30:23

### GENERAL INFORMATION:

Formation: **Ft Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:19:38

Time Test Ended: 03:02:38

Test Type: Conventional Bottom Hole

Tester: Paul Simpson

Unit No: 28

**Interval: 4440.00 ft (KB) To 4525.00 ft (KB) (TVD)**

Reference Elevations: 2698.00 ft (KB)

Total Depth: 4525.00 ft (KB) (TVD)

2690.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

**Serial #: 8371 Outside**

Press @ Run Depth: 60.23 psig @ 4506.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.07.24

End Date: 2011.07.25

Last Calib.: 2011.07.25

Start Time: 19:30:24

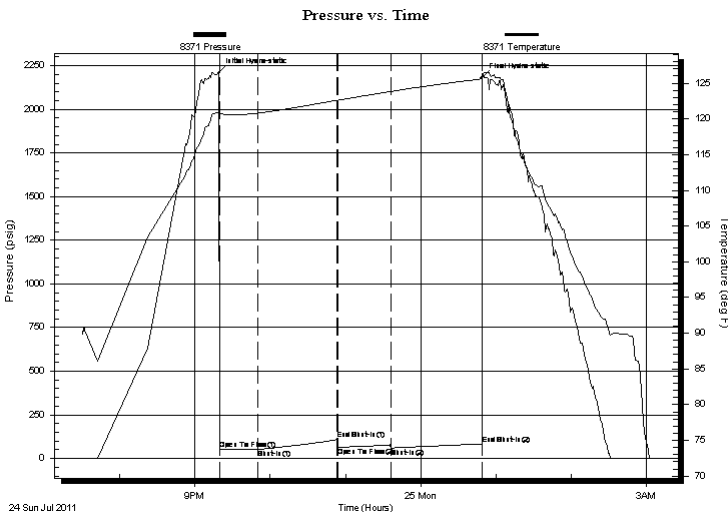
End Time: 03:02:38

Time On Btm: 2011.07.24 @ 21:19:08

Time Off Btm: 2011.07.25 @ 00:48:53

**TEST COMMENT:** IF Weak blow died in 25 minutes  
FF- no blow  
plugging action during final flow

### PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2209.84	120.98	Initial Hydro-static
1	50.32	120.56	Open To Flow (1)
32	54.41	120.81	Shut-In(1)
95	108.53	122.61	End Shut-In(1)
95	62.55	122.62	Open To Flow (2)
138	60.23	123.84	Shut-In(2)
210	84.23	125.60	End Shut-In(2)
210	2179.73	126.28	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
15.00	mud w ith oil specks in tool	0.21

### Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Raymond Oil Co Inc

**Michaud Trust #4**

Box 48788  
Wichita, KS 67202-1822

**21 18s 27w Lane KS**

Job Ticket: 43229 **DST#: 2**

ATTN: Clarke Sandberg

Test Start: 2011.07.24 @ 19:30:23

**Mud and Cushion Information**

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 47.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.99 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: ppm			
Filter Cake: inches			

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
15.00	mud w ith oil specks in tool	0.210

Total Length: 15.00 ft Total Volume: 0.210 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

### Pressure vs. Time

