



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1094021
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

Form must be Typed
Form must be Signed
All blanks must be Filled

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
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

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

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical 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

- Confidentiality Requested
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____



1094021

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops 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.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Electric Log Run	<input type="checkbox"/> Yes <input type="checkbox"/> No			
List All E. Logs Run:				

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
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

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

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <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> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Raydon Exploration, Inc.
Well Name	Fox 1-30
Doc ID	1094021

All Electric Logs Run

Array Compensated True Resistivity Log
Borehole Compensated Sonic Array Log
Microlog
Spectral Density Dual Spaces Neutron Log

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Mark Sievers, Chairman
Thomas E. Wright, Commissioner
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

September 18, 2012

David E. Rice
Raydon Exploration, Inc.
1601 NW EXPRESSWAY, STE 1300
OKLAHOMA CITY, OK 73118-1462

Re: ACO1
API 15-119-21320-00-00
Fox 1-30
SW/4 Sec.30-33S-30W
Meade County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
David E. Rice

Cement Report

Customer: <i>Raydon Exploration</i>	Lease No.	Date: <i>1/30/17</i>
Lease: <i>FOX</i>	Well #: <i>1-30</i>	Service Receipt
Casing: <i>5 1/2</i>	Depth: <i>6000'</i>	County: <i>Meade</i>
Job Type: <i>L.S.</i>	Formation	Legal Description: <i>30-33-30</i>

Pipe Data		Perforating Data		Cement Data
Casing size: <i>5 1/2</i>	Tubing Size	Shots/Ft		Lead: <i>FSK A Co</i>
Depth: <i>4857</i>	Depth	From	To	@ <i>11.4#</i>
Volume: <i>114.6</i>	Volume	From	To	
Max Press: <i>2000#</i>	Max Press	From	To	Tail in: <i>100 SF AA-2</i>
Well Connection: <i>P.C.</i>	Annulus Vol.	From	To	@ <i>14.8#</i>
Plug Depth	Packer Depth	From	To	

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>01:00</i>					<i>on loc, spot trucks, R.U. Safety</i>
<i>14:14</i>	<i>2500</i>				<i>Test Lines</i>
<i>14:15</i>	<i>260</i>		<i>5</i>	<i>4</i>	<i>H2O</i>
<i>14:17</i>	<i>250</i>		<i>12</i>	<i>4</i>	<i>Superflush</i>
<i>14:20</i>	<i>260</i>		<i>5</i>	<i>4</i>	<i>H2O</i>
<i>14:28</i>	<i>-</i>				<i>Plug, R+M</i>
<i>14:41</i>	<i>250</i>		<i>0</i>	<i>5</i>	<i>Start Mixing @ 11.4#</i>
<i>14:47</i>	<i>190</i>		<i>39</i>	<i>5</i>	<i>on tail @ 14.8#</i>
<i>14:52</i>	<i>Ø</i>		<i>27</i>	<i>-</i>	<i>Finished Mixing, washup, Drop pk</i>
<i>15:02</i>	<i>Ø</i>		<i>0</i>	<i>6.5</i>	<i>Start Disp</i>
<i>15:19</i>	<i>500</i>		<i>104</i>	<i>3</i>	<i>Slow Rate</i>
<i>15:23</i>	<i>1700</i>		<i>114.6</i>	<i>-</i>	<i>Plug Down</i>
<i>15:25</i>	<i>Ø</i>				<i>Release Psi, Plug hold</i>
					<i>Job Complete</i>

Service Units	<i>19486</i>	<i>3922339726</i>	<i>3046337724</i>
Driver Names	<i>C. Hinz</i>	<i>R. Olds</i>	<i>V. Vasquez</i>

Clint Andrews Customer Representative *Jenny Bennett* Station Manager *Clint Hinz* Cementer

Density Pump Rate ABS Density

Customer	Raydon Exploration		Lease No.			Date	7-15-12
Lease	FOX		Well #	1-30	Service Receipt	03693	
Casing	8 7/8" 24#	Depth	11648'	County	Meade	State	KS
Job Type	242-8 7/8" Surface	Formation		Legal Description	30-33-30		

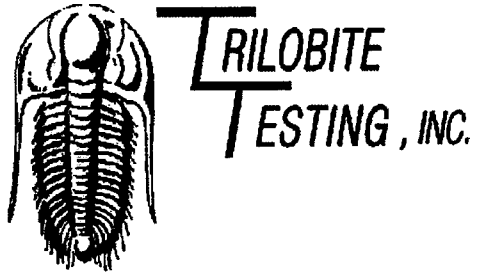
Pipe Data		Perforating Data		Cement Data
Casing size	8 7/8" 24#	Tubing Size		Lead 400 sk A Con
Depth	11648'	Depth	From To	
Volume	Disp- 103 bbl	Volume	From To	Tail in 150 sk Premium Plus
Max Press	1500#	Max Press	From To	
Well Connection	TD-1655'	Annulus Vol.	From To	
Plug Depth	55-42' (11648')	Backer Depth	From To	

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
3:00					on loc -site assessment (drilling)
3:45					spot trucks - rig up
7:30					start csg + f.e.
10:00					csg on bit break circ
10:00					safety meeting / OSHA
10:30					pressure test 2000#
10:30			210	4	mix pump 400 sk A-Con w/ 11.4# 2.95 #3sk, 18.10 gal/sk
11:25			316	4	switch to tail 150 sk Class C @ 14.8 pp - 1.34 #3sk - 6.33 gal/sk
11:40			0	4	drop plug, disp csg
12:10			90	2	slow rate disp last 10 bbl of disp
12:15			103	0	land plug float hold circ circ to surface job complete
Service Units					
Driver Names					

C. Andrews
Customer Representative

J. Bennett
Station Manager

A. Olvera
Cementer
Taylor Printing, Inc.



DRILL STEM TEST REPORT

Prepared For: **Raydon Exploration, Inc**

1601 NW Expressway STE 1300 Oklahoma
City OK 73118

ATTN: Ed Grieves

Fox #1-30

30-33s-30w Meade,KS

Start Date: 2012.07.21 @ 18:30:15

End Date: 2012.07.22 @ 05:05:00

Job Ticket #: 48400 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.07.26 @ 11:50:56

Raydon Exploration, Inc

30-33s-30w Meade,KS

Fox #1-30

DST # 1

Lansing "A"

2012.07.21



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Raydon Exploration, Inc

30-33s-30w Meade, KS

1601 NW Expressway STE 1300 Oklahoma City OK 73118

Fox #1-30

Job Ticket: 48400

DST#: 1

ATTN: Ed Grieves

Test Start: 2012.07.21 @ 18:30:15

GENERAL INFORMATION:

Formation: **Lansing "A"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:05:45

Time Test Ended: 05:05:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Mike Roberts

Unit No: 48

Interval: **4470.00 ft (KB) To 4480.00 ft (KB) (TVD)**

Total Depth: 4480.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2712.00 ft (KB)

2702.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 6668 Outside

Press@RunDepth: 139.04 psig @ 4471.00 ft (KB)

Start Date: 2012.07.20 End Date: 2012.07.21

Start Time: 18:30:15 End Time: 05:05:00

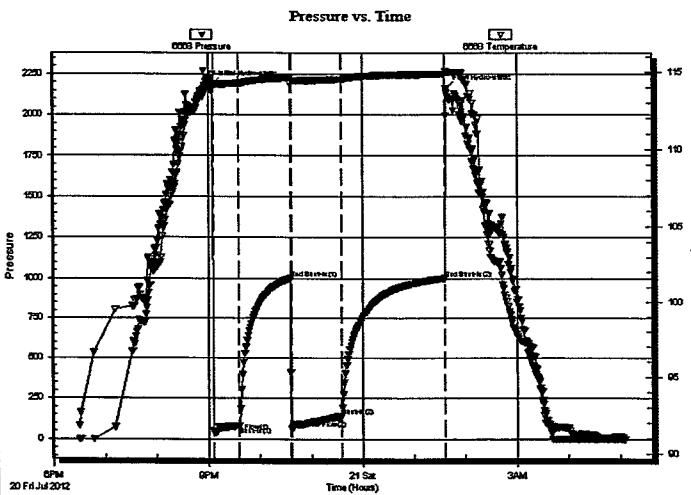
Capacity: 8000.00 psig

Last Calib.: 2012.07.21

Time On Btm: 2012.07.20 @ 21:05:00

Time Off Btm: 2012.07.21 @ 01:37:45

TEST COMMENT: IF:BOB in 1 min GTS at 23 min.
IS:Bled off for 5 min.. Return blow built to BOB in 30 min.
FF:BOB in 1 min GTS
FS:Bled off for 5 min. Return blow built to BOB in 5 min.



PRESSURE SUMMARY

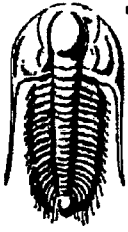
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2185.69	114.83	Initial Hydro-static
1	48.97	114.26	Open To Flow (1)
30	74.13	114.27	Shut-In(1)
91	1003.06	114.62	End Shut-In(1)
93	63.58	114.46	Open To Flow (2)
151	139.04	114.57	Shut-In(2)
272	1002.82	114.89	End Shut-In(2)
273	2157.80	115.04	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
177.00	gcmo 10%g 15%m 75%o	0.87
178.00	mcgo 5%m 10%g 85%o	0.88
94.00	gco 10%g 90%o	1.32
0.00	GIP= 3948 Feet 100%g	0.00

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Raydon Exploration, Inc

1601 NW Expressway STE 1300 Oklahoma City
OK 73118

ATTN: Ed Grieves

30-33s-30w Meade, KS

Fox #1-30

Job Ticket: 48400 **DST#: 1**

Test Start: 2012.07.21 @ 18:30:15

GENERAL INFORMATION:

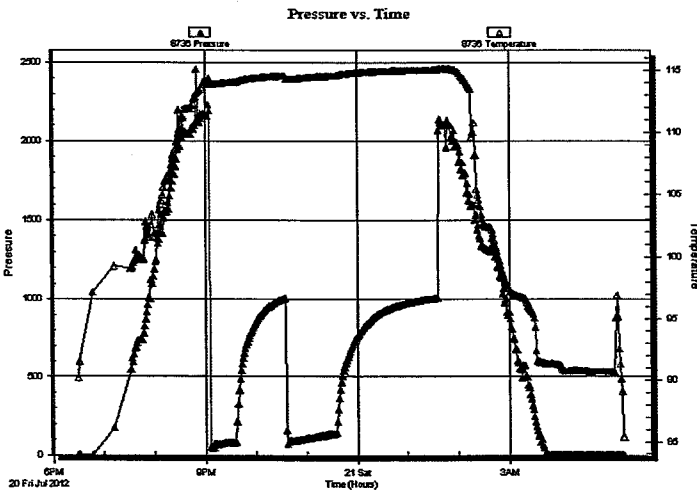
Formation: **Lansing "A"**
 Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 21:05:45 Tester: Mike Roberts
 Time Test Ended: 05:05:00 Unit No: 48
 Interval: **4470.00 ft (KB) To 4480.00 ft (KB) (TVD)** Reference Elevations: 2712.00 ft (KB)
 Total Depth: 4480.00 ft (KB) (TVD) 2702.00 ft (CF)
 Hole Diameter: 7.88 inchesHole Condition: Fair KB to GR/CF: 10.00 ft

Serial #: 8736

Inside

Press@RunDepth: psig @ 4471.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.07.20 End Date: 2012.07.21 Last Calib.: 2012.07.21
 Start Time: 18:30:15 End Time: 05:14:45 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF:BOB in 1 min GTS at 23 min.
 IS:Bled off for 5 min.. Return blow built to BOB in 30 min.
 FF:BOB in 1 min GTS
 FS:Bled off for 5 min. Return blow built to BOB in 5 min.



PRESSURE SUMMARY

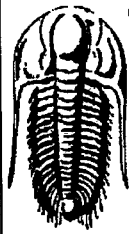
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
177.00	gcmo 10%g 15%m 75%o	0.87
178.00	mcgo 5%m 10%g 85%o	0.88
94.00	gco 10%g 90%o	1.32
0.00	GIP= 3948 Feet 100%g	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Raydon Exploration, Inc

30-33s-30w Meade,KS

1601 NW Expressway STE 1300 Oklahoma City
OK 73118

Fox #1-30

Job Ticket: 48400

DST#: 1

ATTN: Ed Grieves

Test Start: 2012.07.21 @ 18:30:15

Tool Information

Drill Pipe:	Length: 4112.00 ft	Diameter: 3.80 inches	Volume: 57.68 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 355.00 ft	Diameter: 2.25 inches	Volume: 1.75 bbl	Weight to Pull Loose: 110000.0 lb
		Total Volume:	59.43 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 90000.00 lb
Depth to Top Packer:	4470.00 ft			Final 91000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	10.00 ft			
Tool Length:	38.00 ft			
Number of Packers:	2	Diameter: 6.76 inches		

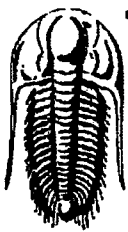
Tool Comments:

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Change Over Sub	1.00			4443.00	
Shut In Tool	5.00			4448.00	
Hydraulic tool	5.00			4453.00	
Jars	5.00			4458.00	
Safety Joint	3.00			4461.00	
Packer	5.00			4466.00	28.00 Bottom Of Top Packer
Packer	4.00			4470.00	
Stubb	1.00			4471.00	
Recorder	0.00	8736	Inside	4471.00	
Recorder	0.00	6668	Outside	4471.00	
Perforations	4.00			4475.00	
Bullnose	5.00			4480.00	10.00 Bottom Packers & Anchor

Total Tool Length: 38.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Raydon Exploration, Inc

30-33s-30w Meade,KS

1601 NW Expressway STE 1300 Oklahoma City
OK 73118

Fox #1-30

Job Ticket: 48400

DST#: 1

ATTN: Ed Grieves

Test Start: 2012.07.21 @ 18:30:15

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	36 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	0 ppm
Viscosity: 46.00 sec/qt	Cushion Volume: bbl		
Water Loss: 11.34 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 4000.00 ppm			
Filter Cake: 2.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
177.00	gcmo 10%g 15%m 75%o	0.870
178.00	mcgo 5%m 10%g 85%o	0.875
94.00	gco 10%g 90%o	1.319
0.00	GIP= 3948 Feet 100%g	0.000

Total Length: 449.00 ft Total Volume: 3.064 bbl

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

Laboratory Name: Laboratory Location:

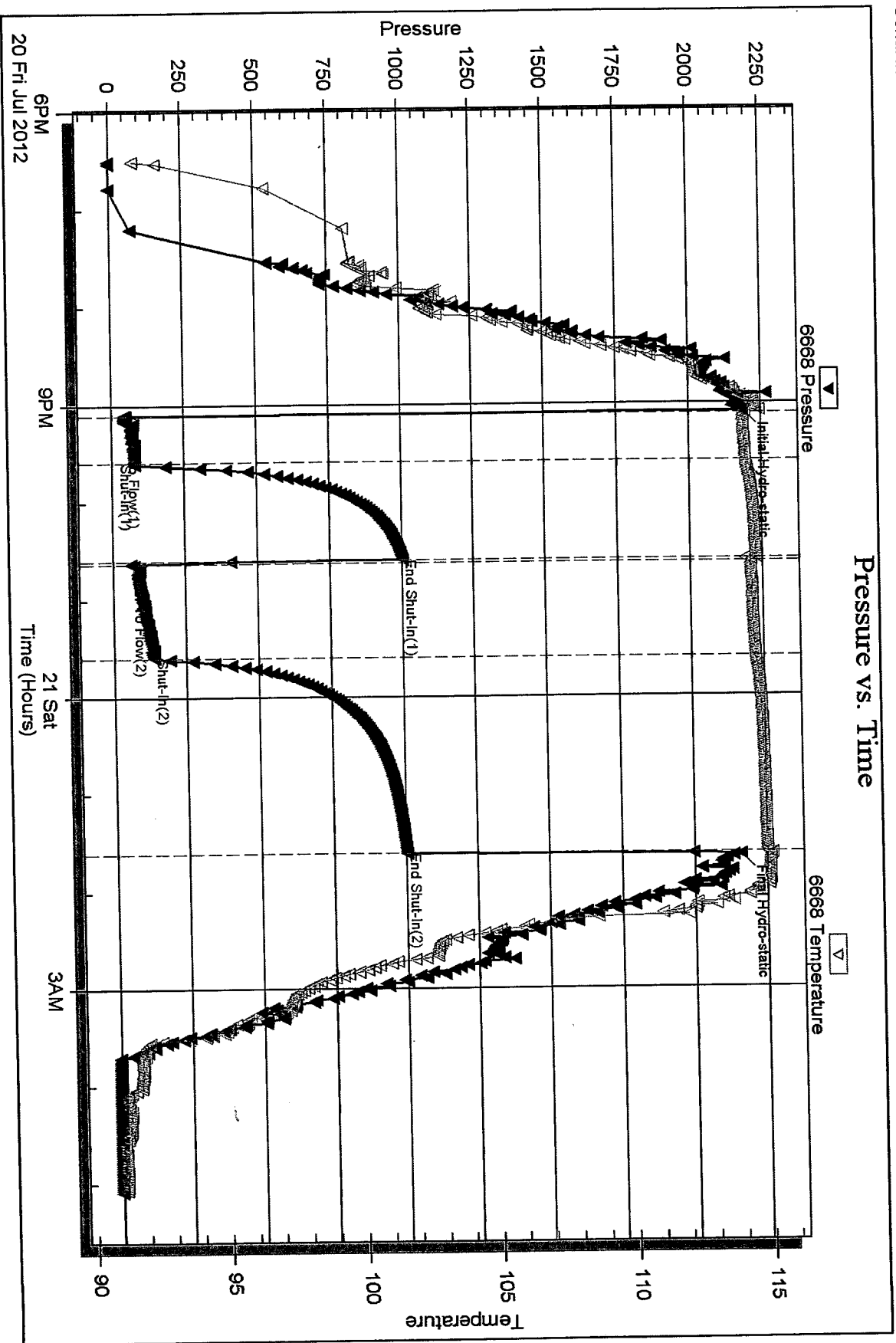
Recovery Comments: API= 37@70 corrected to 36@ 60

Serial #: 6668

Outside Raydon Exploration, Inc

Fox #1-30

DST Test Number: 1



Tribble Testing, Inc

Ref. No: 48400

Printed: 2012.07.26 @ 11:50:58

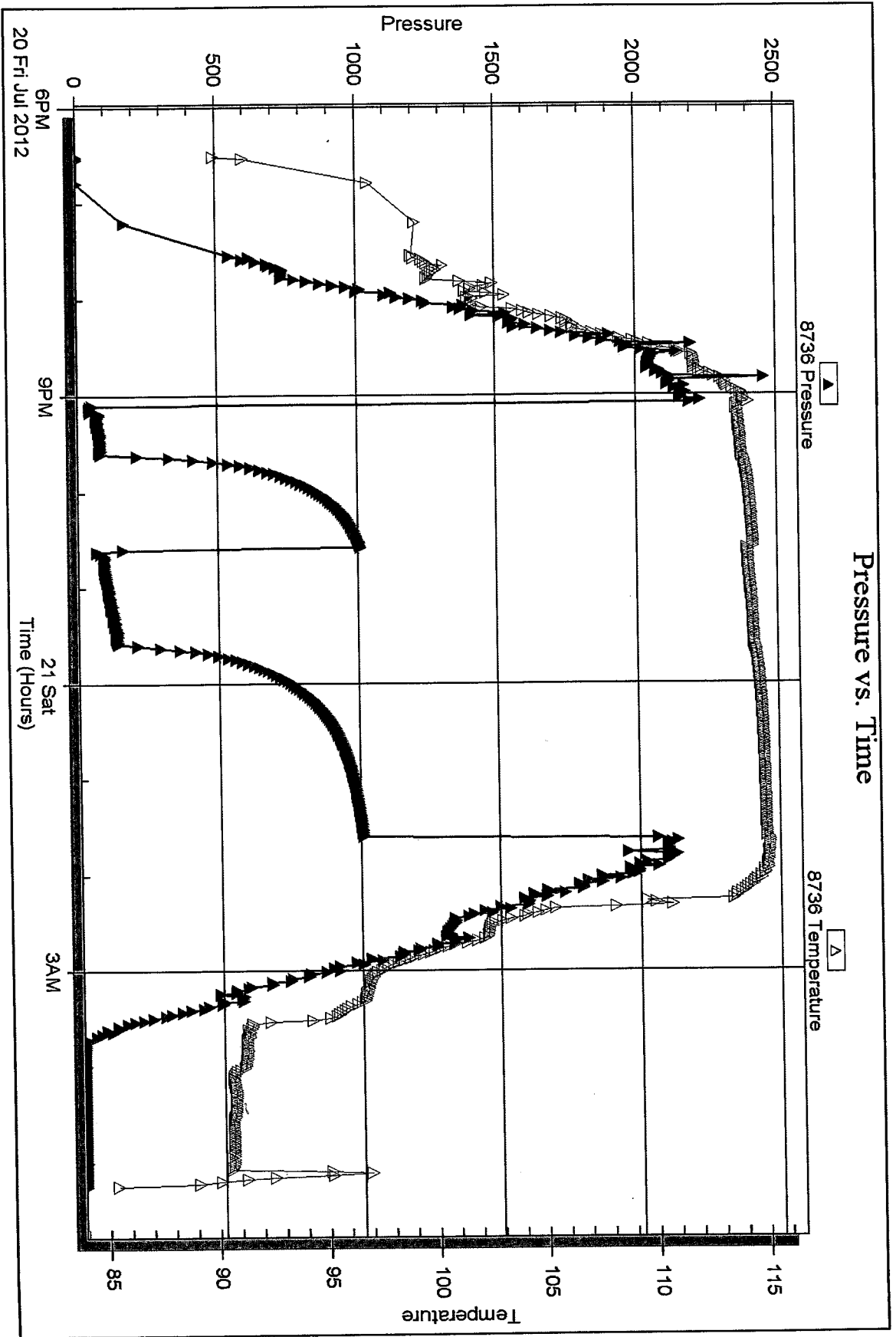
Serial #: 8736

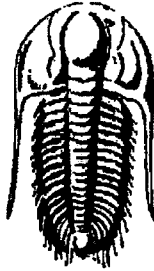
Inside

Raydon Exploration, Inc

Fox #1-30

DST Test Number: 1





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Raydon Exploration, Inc**

1601 NW Expressway STE 1300 Oklahoma
City OK 73118

ATTN: Ed Grieves

Fox #1-30

30-33s-30w Meade,KS

Start Date: 2012.07.22 @ 13:53:15

End Date: 2012.07.22 @ 22:23:45

Job Ticket #: 48976 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.07.26 @ 11:50:20

Raydon Exploration, Inc
30-33s-30w Meade,KS
Fox #1-30
DST # 2
G
2012.07.22



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Raydon Exploration, Inc
1601 NW Expressway STE 1300 Oklahoma City
OK 73118
ATTN: Ed Grieves

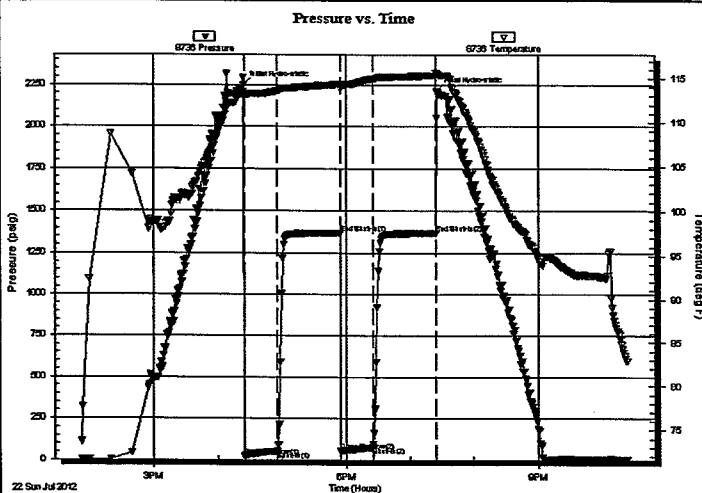
30-33s-30w Meade, KS
Fox #1-30
Job Ticket: 48976 **DST#: 2**
Test Start: 2012.07.22 @ 13:53:15

GENERAL INFORMATION:

Formation: **G**
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)
Time Tool Opened: 16:24:15 Tester: Mike Roberts
Time Test Ended: 22:23:45 Unit No: 48
Interval: 4690.00 ft (KB) To 4717.00 ft (KB) (TVD) Reference Elevations: 2712.00 ft (KB)
Total Depth: 4717.00 ft (KB) (TVD) 2702.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 10.00 ft

Serial #: 8736 Inside
Press@RunDepth: 76.36 psig @ 4691.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2012.07.22 End Date: 2012.07.22 Last Calib.: 2012.07.22
Start Time: 13:53:15 End Time: 22:23:45 Time On Btm: 2012.07.22 @ 16:23:45
Time Off Btm: 2012.07.22 @ 19:26:00

TEST COMMENT: IF: Built to 1 1/4" blow
IS: No return blow
FF: No blow
FS: No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2245.33	113.48	Initial Hydro-static
1	23.23	112.98	Open To Flow (1)
32	52.84	113.58	Shut-In(1)
91	1369.91	114.34	End Shut-In(1)
92	57.83	113.95	Open To Flow (2)
121	76.36	115.00	Shut-In(2)
182	1369.15	115.35	End Shut-In(2)
183	2211.21	115.48	Final Hydro-static

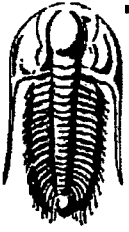
Recovery

Length (ft)	Description	Volume (bbl)
90.00	mud 100% m	0.44

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Raydon Exploration, Inc

30-33s-30w Meade, KS

1601 NW Expressway STE 1300 Oklahoma City
OK 73118

Fox #1-30

Job Ticket: 48976

DST#: 2

ATTN: Ed Grieves

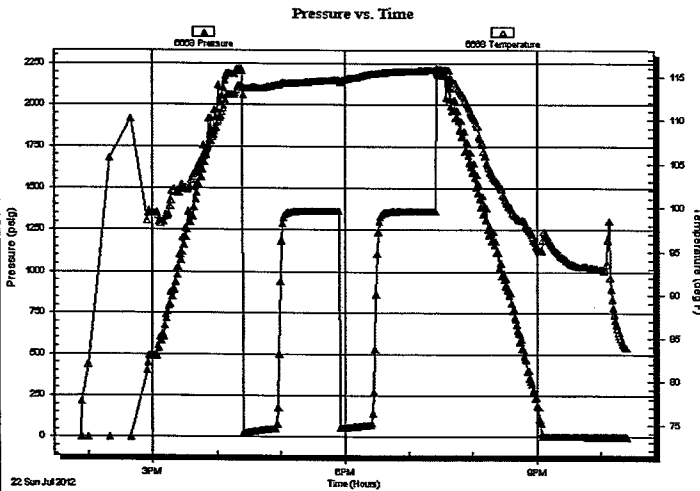
Test Start: 2012.07.22 @ 13:53:15

GENERAL INFORMATION:

Formation: **G**
 Deviated: **No Whipstock:** **ft (KB)**
 Time Tool Opened: 16:24:15
 Time Test Ended: 22:23:45
 Interval: **4690.00 ft (KB) To 4717.00 ft (KB) (TVD)**
 Total Depth: **4717.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**
 Test Type: **Conventional Bottom Hole (Reset)**
 Tester: **Mike Roberts**
 Unit No: **48**
 Reference Elevations: **2712.00 ft (KB)**
2702.00 ft (CF)
 KB to GR/CF: **10.00 ft**

Serial #: 6668 Outside
 Press@RunDepth: **psig @ 4691.00 ft (KB)** Capacity: **8000.00 psig**
 Start Date: **2012.07.22** End Date: **2012.07.22** Last Calib.: **2012.07.22**
 Start Time: **13:53:15** End Time: **22:23:15** Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: Built to 1 1/4" blow
 IS: No return blow
 FF: No blow
 FS: No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (tbt)
90.00	mud 100% m	0.44

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Raydon Exploration, Inc

30-33s-30w Meade, KS

1601 NW Expressway STE 1300 Oklahoma City
OK 73118

Fox #1-30

Job Ticket: 48976

DST#: 2

ATTN: Ed Grieves

Test Start: 2012.07.22 @ 13:53:15

Tool Information

Drill Pipe:	Length: 4332.00 ft	Diameter: 3.80 inches	Volume: 60.77 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 355.00 ft	Diameter: 2.25 inches	Volume: 1.75 bbl	Weight to Pull Loose: 120000.0 lb
			<u>Total Volume: 62.52 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 90000.00 lb
Depth to Top Packer:	4690.00 ft			Final 90000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	25.00 ft			
Tool Length:	53.00 ft			
Number of Packers:	2	Diameter: 6.76 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4663.00	
Shut In Tool	5.00			4668.00	
Hydraulic tool	5.00			4673.00	
Jars	5.00			4678.00	
Safety Joint	3.00			4681.00	
Packer	5.00			4686.00	28.00 Bottom Of Top Packer
Packer	4.00			4690.00	
Stubb	1.00			4691.00	
Recorder	0.00	8736	Inside	4691.00	
Recorder	0.00	6668	Outside	4691.00	
Perforations	19.00			4710.00	
Bullnose	5.00			4715.00	25.00 Bottom Packers & Anchor

Total Tool Length: 53.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Raydon Exploration, Inc

30-33s-30w Meade,KS

1601 NW Expressway STE 1300 Oklahoma City
OK 73118

Fox #1-30

Job Ticket: 48976

DST#: 2

ATTN: Ed Grieves

Test Start: 2012.07.22 @ 13:53:15

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 54.00 sec/qt

Water Loss: 8.37 in³

Resistivity: 0.00 ohm.m

Salinity: 3500.00 ppm

Filter Cake: 2.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

Oil API:

Water Salinity:

0 deg API

0 ppm

ft

bbl

psig

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
90.00	mud 100% m	0.443

Total Length: 90.00 ft

Total Volume: 0.443 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

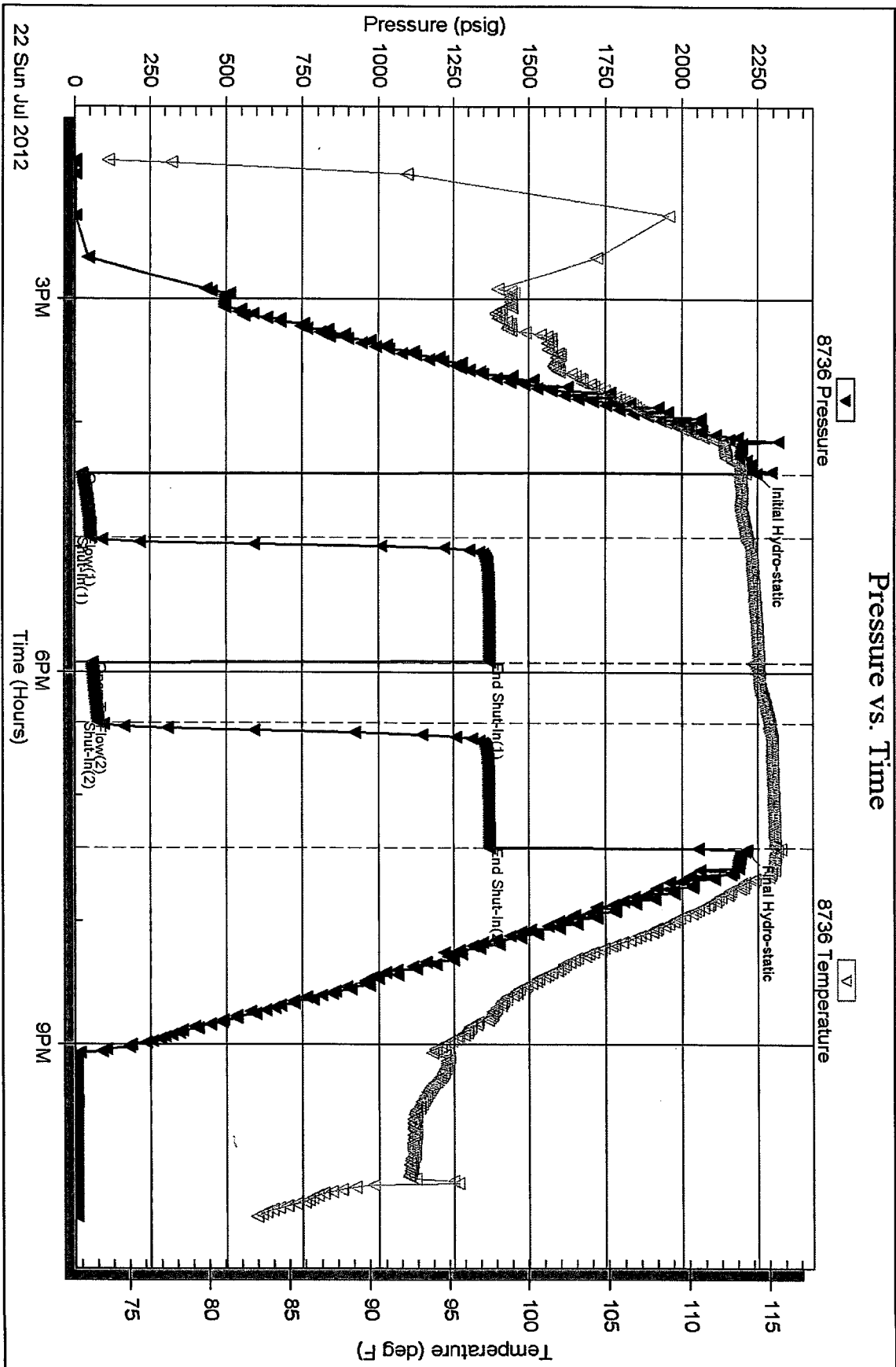
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Inside

Raydon Exploration, Inc

Fox #1-30

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 48976

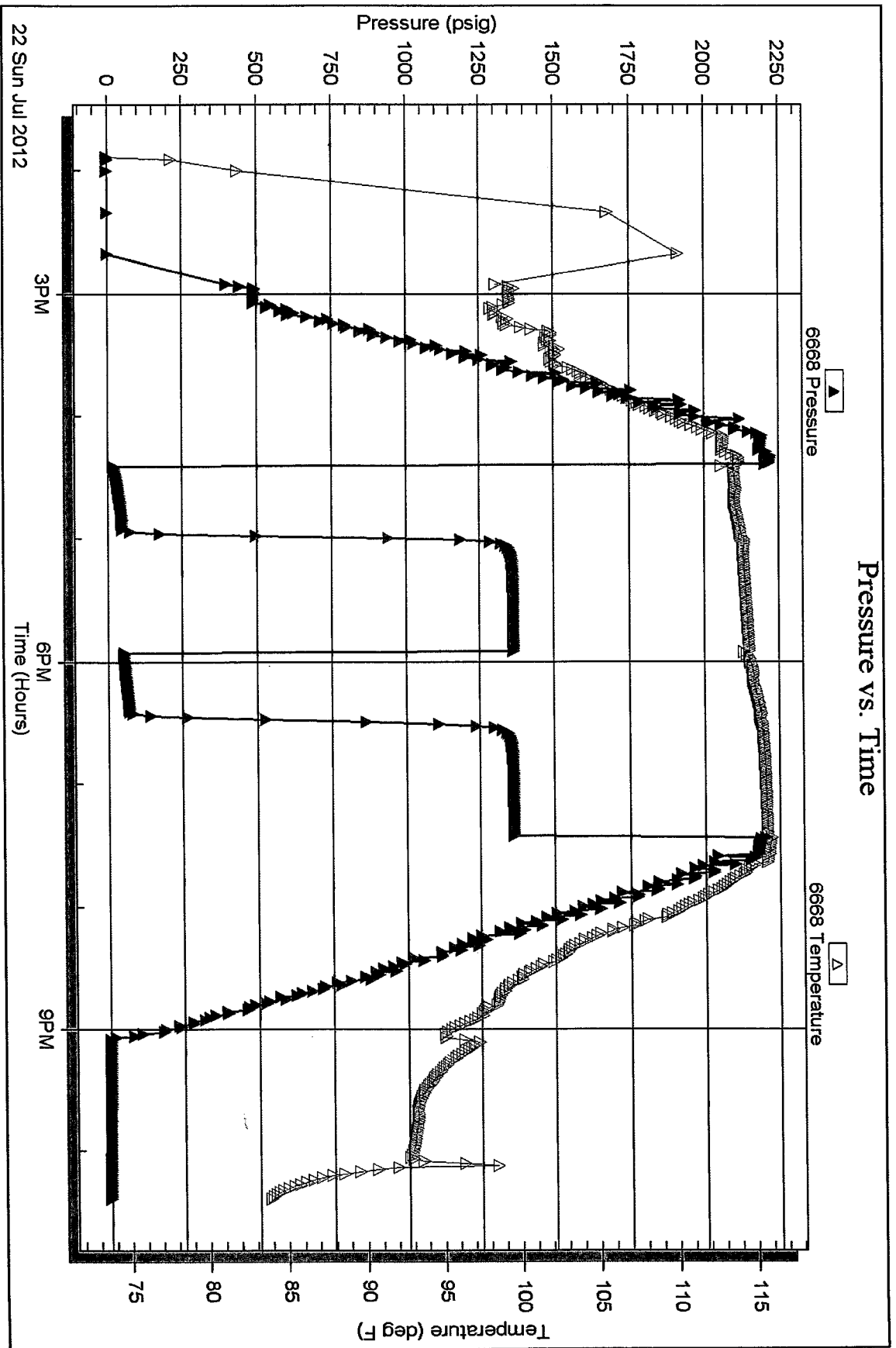
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Serial #: 6668

Outside Raydon Exploration, Inc

Fox #1-30

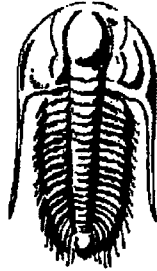
DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 48976

Printed: 2012.07.26 @ 11:50:23



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Raydon Exploration, Inc**

1601 NW Expressway STE 1300 Oklahoma
City OK 73118

ATTN: Ed Grieves

Fox #1-30

30-33s-30w Meade,KS

Start Date: 2012.07.26 @ 20:23:00

End Date: 2012.07.27 @ 07:51:45

Job Ticket #: 47069 DST #: 3

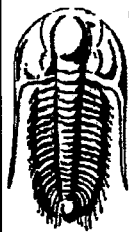
Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.08.01 @ 11:37:21

Raydon Exploration, Inc
30-33s-30w Meade,KS
Fox #1-30
DST # 3
Morrow
2012.07.26



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Raydon Exploration, Inc
 1601 NW Expressway STE 1300 Oklahoma City
 OK 73118
 ATTN: Ed Grieves

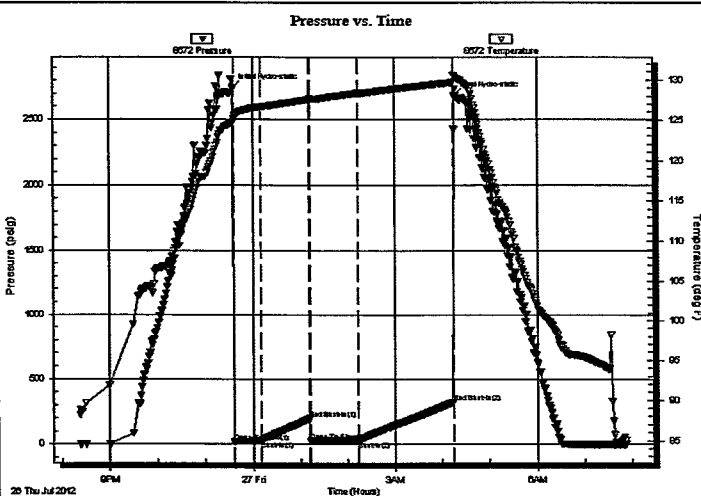
30-33s-30w Meade,KS
Fox #1-30
 Job Ticket: 47069 **DST#: 3**
 Test Start: 2012.07.26 @ 20:23:00

GENERAL INFORMATION:

Formation: **Morrow**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 23:36:00
 Time Test Ended: 07:51:45
 Interval: **5698.00 ft (KB) To 5720.00 ft (KB) (TVD)**
 Total Depth: 5720.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Sam Esparza
 Unit No: 58
 Reference Elevations: 2712.00 ft (KB)
 2702.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 8672 Inside
 Press@RunDepth: 28.18 psig @ 5699.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.07.26 End Date: 2012.07.27 Last Calib.: 2012.07.27
 Start Time: 20:23:05 End Time: 07:51:45 Time On Btm: 2012.07.26 @ 23:35:15
 Time Off Btm: 2012.07.27 @ 04:15:45

TEST COMMENT: IF: 8" Blow.
 IS: No Return.
 FF: 6 1/4" Blow.
 FSI: No Return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2741.71	124.80	Initial Hydro-static
1	18.93	124.86	Open To Flow (1)
35	28.25	126.63	Shut-In(1)
97	197.49	127.58	End Shut-In(1)
97	23.10	127.54	Open To Flow (2)
158	28.18	128.34	Shut-In(2)
279	320.47	129.69	End Shut-In(2)
281	2684.73	130.51	Final Hydro-static

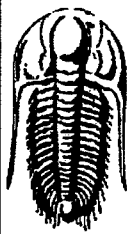
Recovery

Length (ft)	Description	Volume (bbl)
15.00	OCM 10o 90m	0.07

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Raydon Exploration, Inc

30-33s-30w Meade, KS

1601 NW Expressway STE 1300 Oklahoma City
OK 73118

Fox #1-30

Job Ticket: 47069

DST#: 3

ATTN: Ed Grieves

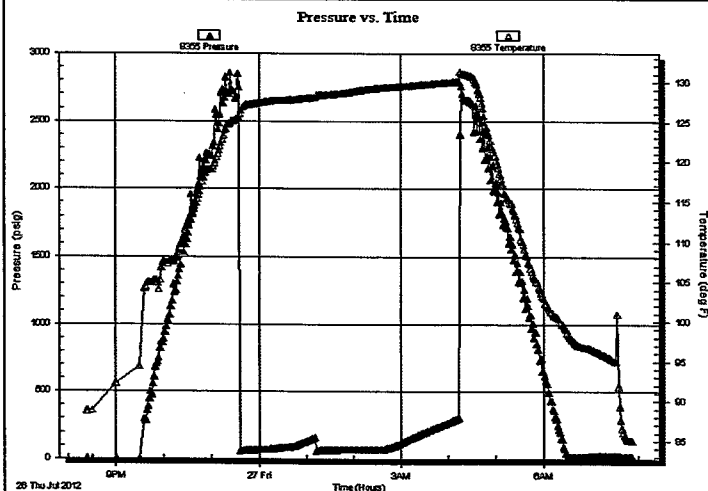
Test Start: 2012.07.26 @ 20:23:00

GENERAL INFORMATION:

Formation: **Morrow**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 23:36:00
Time Test Ended: 07:51:45
Test Type: Conventional Bottom Hole (Reset)
Tester: Sam Esparza
Unit No: 58
Interval: **5698.00 ft (KB) To 5720.00 ft (KB) (TVD)**
Reference Elevations: 2712.00 ft (KB)
Total Depth: 5720.00 ft (KB) (TVD) 2702.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 10.00 ft

Serial #: 8355 Outside
Press@RunDepth: psig @ 5699.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2012.07.26 End Date: 2012.07.27 Last Calib.: 2012.07.27
Start Time: 20:23:05 End Time: 07:51:45 Time On Btm:
Time Off Btm:

TEST COMMENT: IF: 8" Blow.
IS: No Return.
FF: 6 1/4" Blow.
FS: No Return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
15.00	OCM 10o 90m	0.07

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Raydon Exploration, Inc

30-33s-30w Meade,KS

1601 NW Expressway STE 1300 Oklahoma City
OK 73118

Fox #1-30

Job Ticket: 47069

DST#: 3

ATTN: Ed Grieves

Test Start: 2012.07.26 @ 20:23:00

Tool Information

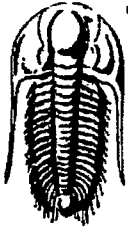
Drill Pipe:	Length: 5332.00 ft	Diameter: 3.80 inches	Volume: 74.79 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 355.00 ft	Diameter: 2.25 inches	Volume: 1.75 bbl	Weight to Pull Loose: 120000.0 lb
			<u>Total Volume: 76.54 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 104000.0 lb
Depth to Top Packer:	5698.00 ft			Final 105000.0 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	22.00 ft			
Tool Length:	50.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Change Over Sub	1.00			5671.00	
Shut In Tool	5.00			5676.00	
Hydraulic tool	5.00			5681.00	
Jars	5.00			5686.00	
Safety Joint	3.00			5689.00	
Packer	5.00			5694.00	28.00 Bottom Of Top Packer
Packer	4.00			5698.00	
Stubb	1.00			5699.00	
Recorder	0.00	8672	Inside	5699.00	
Recorder	0.00	8355	Outside	5699.00	
Perforations	18.00			5717.00	
Bullnose	3.00			5720.00	22.00 Bottom Packers & Anchor

Total Tool Length: 50.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Raydon Exploration, Inc

30-33s-30w Meade,KS

1601 NW Expressway STE 1300 Oklahoma City
OK 73118

Fox #1-30

Job Ticket: 47069

DST#: 3

ATTN: Ed Grieves

Test Start: 2012.07.26 @ 20:23:00

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: 74.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.39 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	OCM 10o 90m	0.074

Total Length: 15.00 ft

Total Volume: 0.074 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

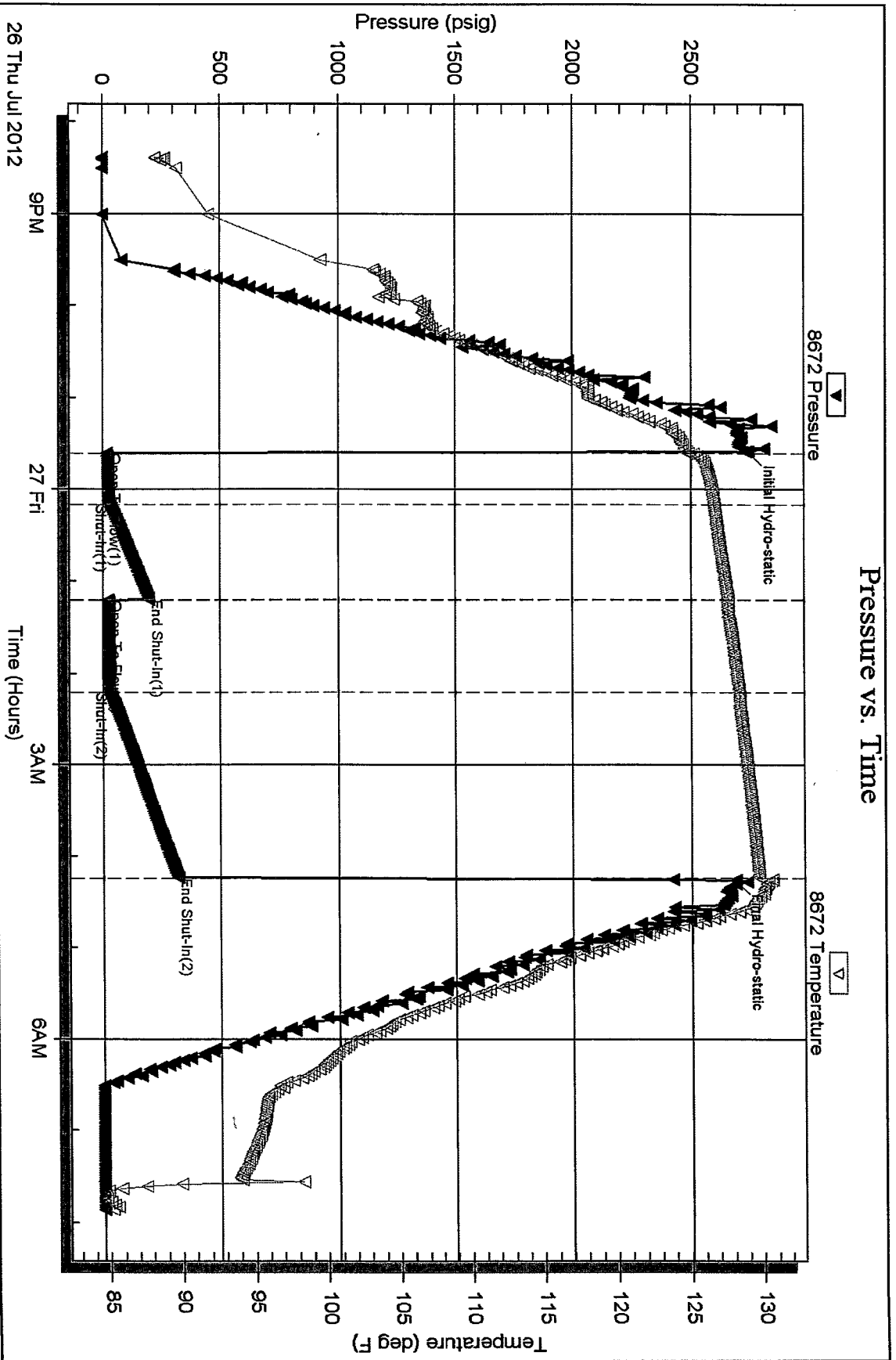
Serial #: 8672

Inside

Raydon Exploration, Inc

Fox #1-30

DST Test Number: 3

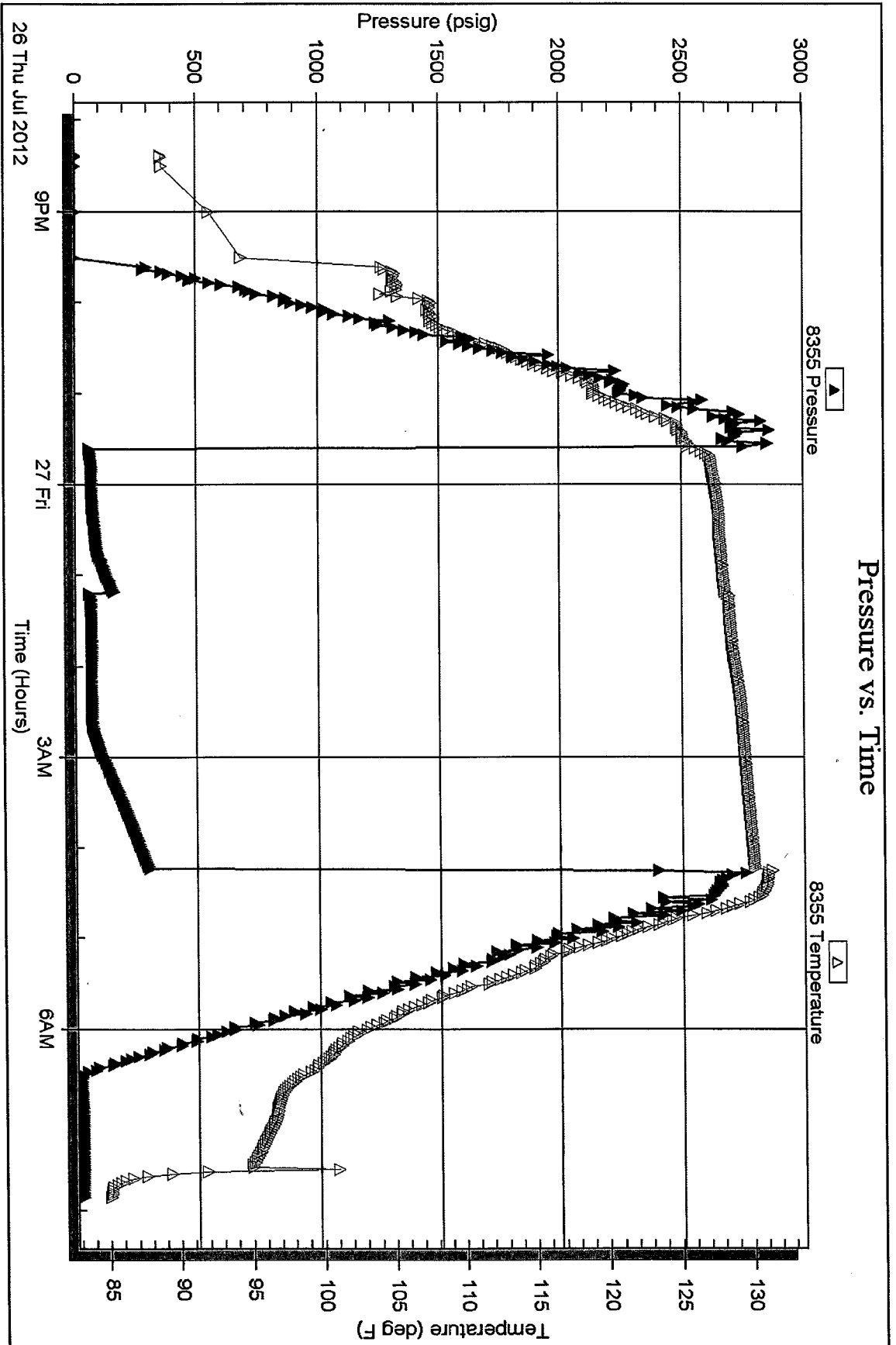


Serial #: 8355

Outside Raydon Exploration, Inc

Fox #1-30

DST Test Number: 3





TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 48400

Well Name & No. Fox # 1-30 Test No. 1 Date 7-20-12
 Company Raydon Exploration Elevation 2702 KB 2712 GL
 Address 1601 NW Expressway STE 1300 Oklahoma City OK 73118
 Co. Rep / Geo. Ed Gieves Rig Tomcat #1
 Location: Sec. 30 Twp. 33S Rge. 30W Co. Meade State KS

Interval Tested 4470-4480 Zone Tested Lansing A
 Anchor Length 10' Drill Pipe Run ~~447~~ 4112 Mud Wt. 9.2
 Top Packer Depth 4466 Drill Collars Run 355 Vis 46
 Bottom Packer Depth 4470 Wt. Pipe Run 0 WL 11.4
 Total Depth 4480 Chlorides 4000 ppm System LCM 4
 Blow Description IF: BOB in 1 Min GTS @ 23 Min -
IS: Bled off for 5 Min Return Blow BOB in 30 Min
FF: BOB in 1 Min GTS -
FS: Bled off for 5 Min - Return Blow BOB in 5 Min

Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of GIP = 3948	100			
Rec	94 Feet of gco	10	90		
Rec	177 Feet of gcmo	10	75		15
Rec	178 Feet of mcgo	10	85		5
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 449 BHT 115 Gravity 36 API RW — @ — °F Chlorides — ppm
 (A) Initial Hydrostatic 2185 Test 1250.00 T-On Location 18:00
 (B) First Initial Flow 48 Jars 250.00 T-Started 18:30
 (C) First Final Flow 74 Safety Joint 75.00 T-Open 21:05
 (D) Initial Shut-In 1003 Circ Sub NC T-Pulled 01:35
 (E) Second Initial Flow 63 Hourly Standby 2 HRS 1hr 100 T-Out 05:05
 (F) Second Final Flow 139 Mileage 260LT = 403.00 Comments To low to
110rt 170.50 gasp gas - Burnable
 Sampler — Blue Flame.
 Straddle —
 Shale Packer 250.00 Ruined Shale Packer —
 Extra-Packer 250.00 Ruined Packer —
 Extra Recorder — Extra Copies —
 Day Standby — Sub Total 0
 Accessibility 150.00 Total 2345.50
Bad cant unload tools
MP/DST Disc't without
Rolling to
truck

Approved By Ed Gieves Our Representative Mike Roberts
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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 48976

Well Name & No. Fox #1-30 Test No. 2 Date 7-22-12
 Company Raydon Exploration Elevation 2702 KB 2712 GL
 Address 1601 NW Expressway STE 1300 Oklahoma City OK 73118
 Co. Rep / Geo. Ed Grieves Rig Tomcat #1
 Location: Sec. 30 Twp. 33s Rge. 30w Co. Meade State KS

Interval Tested 4690-4717 Zone Tested "6"
 Anchor Length 27 Drill Pipe Run 4332 Mud Wt. 9.0
 Top Packer Depth 4686 Drill Collars Run 355 Vis 54
 Bottom Packer Depth 4690 Wt. Pipe Run Ø WL 8.4
 Total Depth 4717 Chlorides 3200 ppm System LCM 8
 Blow Description IF: Built to 1 1/4" Blow
FS: No Return Blow
FF: No Blow
PS: No Return Blow

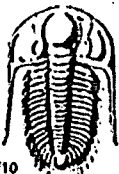
Rec	Feet of	%gas	%oil	%water	%mud
<u>90</u>	<u>MUD</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 90 BHT 115 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>2245</u>	<input checked="" type="checkbox"/> Test <u>1250.00/-</u>	T-On Location <u>12:30</u>
(B) First Initial Flow <u>23</u>	<input checked="" type="checkbox"/> Jars <u>250.00/-</u>	T-Started <u>13:53</u>
(C) First Final Flow <u>52</u>	<input checked="" type="checkbox"/> Safety Joint <u>75.00/-</u>	T-Open <u>16:25</u>
(D) Initial Shut-In <u>1369</u>	<input checked="" type="checkbox"/> Circ Sub <u>NC</u>	T-Pulled <u>19:25</u>
(E) Second Initial Flow <u>57</u>	<input type="checkbox"/> Hourly Standby <u>1</u>	T-Out <u>22:23</u>
(F) Second Final Flow <u>76</u>	<input checked="" type="checkbox"/> Mileage <u>260 RT = 11403.00/-</u> <small>170.50</small>	Comments <u>—</u>
(G) Final Shut-In <u>1369</u>	<input type="checkbox"/> Sampler <u>—</u>	<input type="checkbox"/> Ruined Shale Packer <u>—</u>
(H) Final Hydrostatic <u>2211</u>	<input type="checkbox"/> Straddle <u>—</u>	<input type="checkbox"/> Ruined Packer <u>—</u>
Initial Open <u>30</u>	<input checked="" type="checkbox"/> Shale Packer <u>250.00/-</u>	<input type="checkbox"/> Extra Copies <u>—</u>
Initial Shut-In <u>60</u>	<input checked="" type="checkbox"/> ^{Shale} Extra Packer <u>250.00/-</u>	Sub Total <u>250</u>
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder <u>—</u>	Total <u>2495.50</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby <u>1d 7.5h</u>	MP/DST Disc't <u>—</u>
	<input checked="" type="checkbox"/> Accessibility <u>150.00/-</u>	
	Sub Total <u>2245.50</u> <u>2628.00/-</u>	

Approved By Edwin H. Grieves Our Representative Mike Roberts

TriLOBITE Testing Inc. shall not be liable for damaged or any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRIOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 48977

Well Name & No. Fox #1-30 Test No. Date 7-24-12
 Company Raydon Exploration Elevation 2702 KB 2712 GL
 Address 1601 NW Expressway STE 1300 Oklahoma OK 73118
 Co. Rep / Geo. Ed Grivies Rig Tomcat #1
 Location: Soc. 30 Twp. 33S Rge. 30W Co. Meade State KS

Interval Tested _____ Zone Tested _____
 Anchor Length _____ Drill Pipe Run _____ Mud Wt. _____
 Top Packer Depth _____ Drill Collars Run _____ Vis _____
 Bottom Packer Depth _____ Wt. Pipe Run _____ WL _____
 Total Depth _____ Chlorides _____ ppm System _____ LCM _____
 Blow Description _____

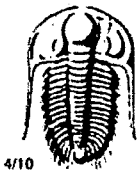
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total _____ BHT _____ Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic _____ Test _____ T-On Location _____
 (B) First Initial Flow _____ Jars _____ T-Started _____
 (C) First Final Flow _____ Safety Joint _____ T-Open _____
 (D) Initial Shut-In _____ Circ Sub _____ T-Pulled _____
 (E) Second Initial Flow _____ Hourly Standby _____ T-Out _____
 (F) Second Final Flow _____ Mileage Pack up tools 170.50 Comments _____
 (G) Final Shut-In _____ Sampler _____
 (H) Final Hydrostatic _____ Straddle _____ Ruined Shale Packer _____
 _____ Shale Packer _____ Ruined Packer _____
 Initial Open _____ Extra Packer _____ Extra Copies _____
 Initial Shut-In _____ Extra Recorder _____ Sub Total 800
 Final Flow _____ Day Standby 1d 11h Total 970.50
 Final Shut-In _____ Accessibility _____ MP/DST Disc't _____
 Sub Total 170.50

Approved By _____ Our Representative _____

Triobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 47069

Well Name & No. Fox #1-30 Test No. 3 Date 7/26/12
 Company Raydon Exploration, Inc Elevation 2712 KB 2702 GL
 Address 1601 NW Expressway STE 1300 Oklahoma City, OK 73118
 Co. Rep / Geo. Ed Grievens Rig Tamcat #1
 Location: Sec. 30 Twp. 33 Rge. 30W Co. Meade State Ks

Interval Tested 5698-5720 Zone Tested Morrow
 Anchor Length 22' Drill Pipe Run 5332 Mud Wt. 9.0
 Top Packer Depth 5694 Drill Collars Run 355 Vis 74
 Bottom Packer Depth 5698 Wt. Pipe Run ∅ WL 7.4
 Total Depth 5720 Chlorides 2800 ppm System LCM 10
 Blow Description 8" Blow.
No Returns
64" Blow.
No Returns

Rec	Feet of	%gas	%oil	%water	%mud
<u>15</u>	<u>ocm</u>	<u>10</u>		<u>90</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 15 BHT 130 Gravity - API RW - @ - °F Chlorides - ppm
 (A) Initial Hydrostatic 2742 Test 1350 T-On Location 17:50
 (B) First Initial Flow 19 Jars 250 T-Started 20:23
 (C) First Final Flow 28 Safety Joint 75 T-Open 23:36
 (D) Initial Shut-In 197 Circ Sub - T-Pulled 4:14
 (E) Second Initial Flow 23 Hourly Standby 1 1/2 hours 150 T-Out 7:38
 (F) Second Final Flow 28 Mileage 240 R/T X2 341
 (G) Final Shut-In 320 Sampler -
 (H) Final Hydrostatic 2685 Straddle -

Shale Packer x2 500 Ruined Shale Packer -
 Extra Packer - Ruined Packer -
 Extra Recorder - Extra Copies -
 Initial Open 30 Day Standby 1d 12h Sub Total 800
 Initial Shut-In 60 Accessibility lot walk steps downw/ JMP/DST Disc't Total 3466
 Final Flow 60 Sub Total 2666

Approved By [Signature] Our Representative [Signature]
 Triobite Testing Inc. shall not be liable for damaged or any loss of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

GEOLOGIST'S REPORT

DRILLING TIME & SAMPLE LOG

COMPANY RAYDON EXPLORATION, INC.
 LEASE FOX NO. 1-30
 LOCATION 1485FSL & 1535FWL
 SEC. 30 TWP. 33S RNG. 30W
 COUNTY MEADE STATE KANSAS
 FIELD KISMET

ELEVATIONS
 KB 2718
 DF 2716
 GL 2702

MEASUREMENTS ARE ALL FROM KB

CONTRACTOR TOMCAT DRLG. RIG NO. 1
 COMM. 7-12-2012 COMP. 7-29-2012
 RTD 6000 LTD 5992

CASING RECORD
8625 of 1655 w/ SH.
 of w/ SH.
 of w/ SH.
 of w/ SH.

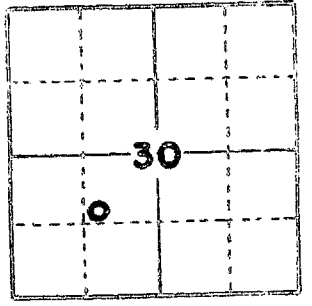
No. of DST'S THREE No. of CORES NONE

EL. LOG AC RES SP GR
DEN NEUT GR CALIPER
ML SONIC

SAMPLES SAVED FROM 4200 TO TD
 DRILLING TIME KEPT FROM 4200 TO TD
 SAMPLES EXAMINED FROM 4200 TO TD
 GEOLOGICAL SUPERVISION FROM 4200 TO TD
 GEOLOGIST ON WELL EDWIN H. GRIEVES

FORMATION TOPS

FORMATION TOPS	SAMPLE	LOG	SUBSEA
BASE HEEBNER	<u>4338</u>	<u>4332</u>	<u>-1614</u>
TORONTO	<u>4352</u>	<u>4344</u>	<u>-1626</u>
LANSING	<u>4469</u>	<u>4462</u>	<u>-1744</u>
MARMATON	<u>5116</u>	<u>5108</u>	<u>-2390</u>
CHEROKEE	<u>5324</u>	<u>5314</u>	<u>-2596</u>
MORROW	<u>5641</u>	<u>5630</u>	<u>-2912</u>
CHESTER	<u>5745</u>	<u>5746</u>	<u>+3028</u>
TD	<u>6000</u>	<u>5992</u>	<u> </u>



API NO. 15-119-21320

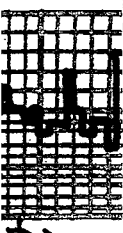
REMARKS East-Track had an unmanned gas detection trailer
on this well from 4200 feet to total depth.

Note: E-log tops are 8 to 10 feet higher than
geological-log tops.

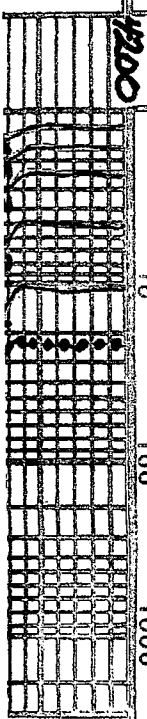
Frank H. f
 Geo log is
 4200

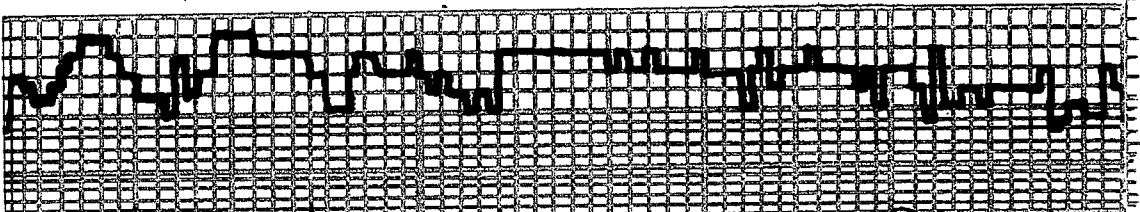
LITHOLOGY	FORMATION	HOT WIRE BY	TOTAL GAS VOLUME	C1 = METHANE	C2 = ETHANE	C3 = PROPANE	C4 = BUTANE	C5 = PENTANE	C6 = HEXANE
SANDSTONE	STONING								
LIMESTONE	INDUWITE								
SHALE	GRANITE MASS								
OVER	ANY & GIP								

DRILL TIME SCALE	SAMPLE DESCRIPTION	GAS SCALE
5 10 15		10 100 1000



Lms. H. to med. gray, crypto to var. f. x/4
 fairly to very shaly, sub-cl. to shaly





Interbedded for Gradations / Limestones and Shales

① Lms. similar 4200-4226
 ② Sh med to v. dk. grey; very to extra calc. to v. dk. grey to black - carb.

Sh med. to v. dk grey; sl. to very calc 10's

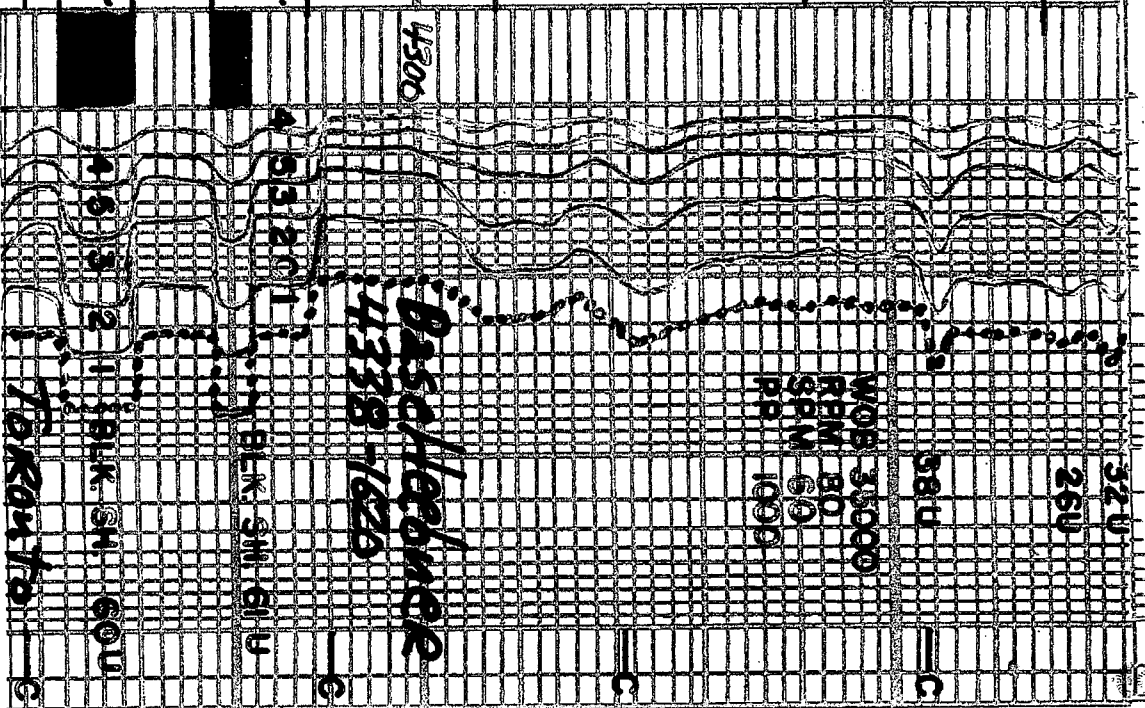
Lms. lt. gray to tan; crept to v. fin. slw. sub. blk. has sub. - traces of patches; Aud. H. yel. - fluor. ; No cut; No Vis For

Sh med to v. dk grey - calc to v. dk. grey to black - carb

Lms. similar 4292-4312

Sh med top. dk. grey - calc to v. dk grey to black - carb

Lms. similar 4292-4312



320
260

880

WOP 35000
 REM 80
 SPIN 60
 PR 1000

Basal limestone
 4338-4328

BEK. SM. 61 U

BEK. SM. 60 U

TORONTO

Lms. tres. whit. to cream. 2-4. H. 1.5-2.0. T. 1.0-1.5. C. 1.0-1.5. P. 1.0-1.5. S. 1.0-1.5. V. 1.0-1.5. W. 1.0-1.5. L. 1.0-1.5. B. 1.0-1.5. R. 1.0-1.5. Yel. Fluor. 1.0-1.5; No cut; No N; R. 1.0-1.5.

Lms. similar 4352-4362

Lms. similar 4362-4370

Lms. tres. whit. to cream. 1-2. H. 1.0-1.5. T. 1.0-1.5. C. 1.0-1.5. P. 1.0-1.5. S. 1.0-1.5. V. 1.0-1.5. W. 1.0-1.5. L. 1.0-1.5. B. 1.0-1.5. Yel. Fluor. 1.0-1.5; No cut; No N; R. 1.0-1.5.

Lms. H. grey to gray; tan; crypto. to u. a. f. l. h. tres. sub. whit. sub. succ. & patches tan. Adult. H. yel. Fluor. 1.0-1.5; No cut; No N; R. 1.0-1.5.

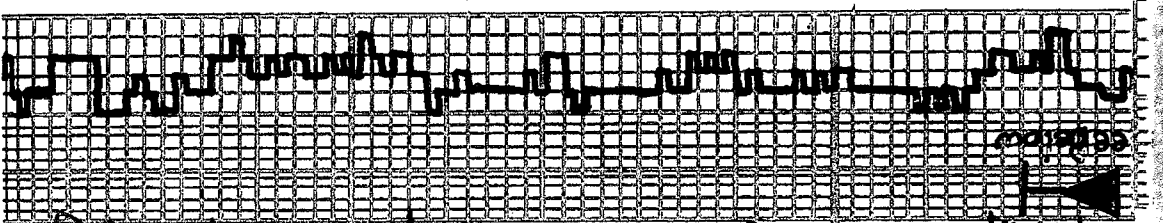
Sh med. to v. dark gray; sl. to v. cal. 1.0-1.5

Lms similar 4414-4440

4300

02

Amusing Tom
1969-1971

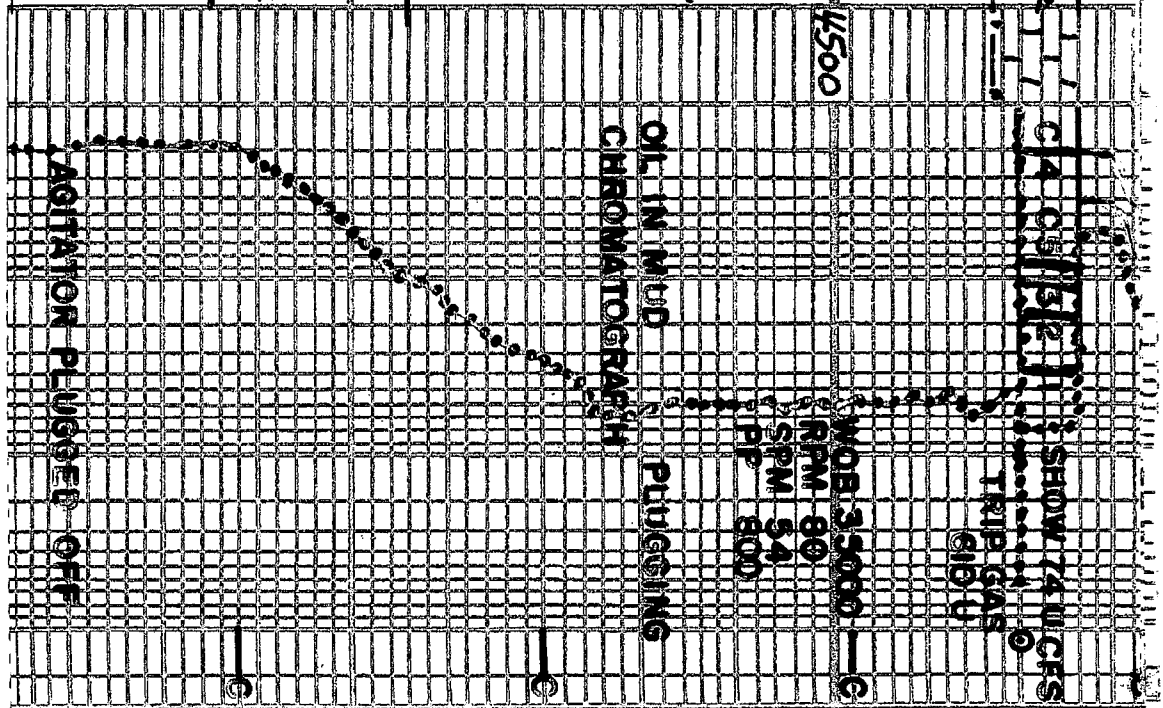


Lms. tes. wht. to cream. - chlk + clay, crypto.
 to U. of t. x/m. ab. y. sl. to v. calc. st. c. of
 sl. to u. calc. st. c. of. sub. sac. to sac. to sac.
 tr. to u. calc. st. c. of. sac. to sac. to sac.
 sp. to u. calc. st. c. of. sac. to sac. to sac.
 fluo., flash. to u. calc. st. c. of. sac. to sac.
 wgd. calc. st. c. of. to u. calc. st. c. of. sac. to sac.
 exal. micro. pp. prob. in. to u. calc. st. c. of.

Lms. H. grey - sl. to fely. shly. 1P3 to tan;
 crypto. to U. of t. x/m. ab. y. sl. sub. chlk,
 sub. sac. & pack. st. to tan sub. chlk;
 d. w. H. to H. yd. Fluor.; No cut. No vis. Por.

Lms. greyish. tan to fely. crypto. to v. of. yd.
 sub. chlk; sub. sac. to sac. & pack. st.;
 d. w. H. to H. yd. Fluor.; No cut. ab. poor
 very mic. d. - pp. por. w/ poss. inter. yd. por.

Interbedded limestones
 @ Faster Dely. similar 454 + 4565
 @ Slower Dely similar 4485 - 4544



Lms. v. 36m. w/ht to cream - cell + garnish tan to
tan; cepto. to v. v. tan. v. tan. ph. x. x. x. x.
oblique to oblique w/hts ph. x. x. x. x. x. x. x. x.
sub-cell, sub-secto to sub-secto + p. x. x. x. x. x.
dud. H. to H. yel. Fluor. D. x. x. x. x. x. x. x. x.
fas. for togd. micao - pp. p. x. x. x. x. x. x. x. x.

Lms. garnish. tan to tan; cepto. to v. v. tan. x. x. x.
sub-cell, sub-secto + p. x. x. x. x. x. x. x. x. x.
ool. the 1P's; dud. yel. Fluor.; D. x. x. x. x. x. x. x. x.

Lms. similar 4624 - 4624 w/ sl. tan
cheat tan; opaque

Lms. similar 4624 - 4656

Sk med. to v. dark gray - calc to v. dark gray

Lms similar 4624 - 4656

4600

TRAP CHECK

EXCITATOR PLUGGED OFF

MON 38000

RPM 80

SFM 54

PP 690

NON CASTLE

Lms. similar

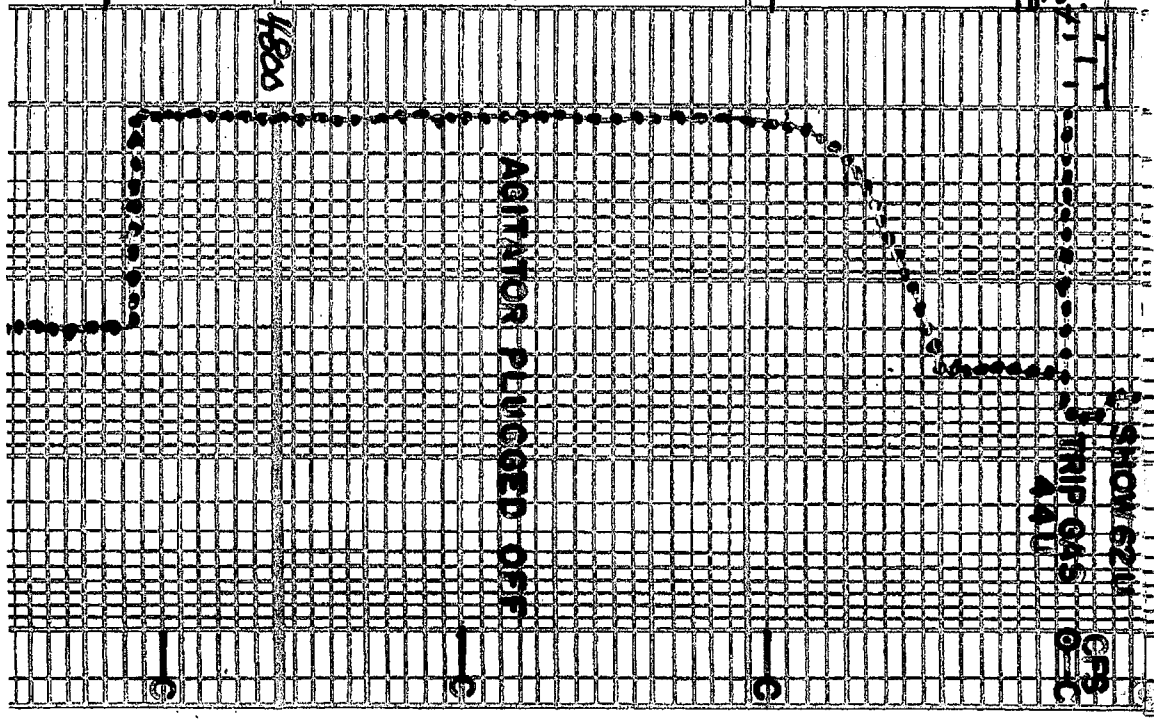
4700

4700 - 4702

4722-4748 lens similar 4624-4656
w/prob. interbeds sls. med. to v. dk.
gray - calc to v. dk. gray to blk.

Lens. H. gray to tan, except to the v. dk. tan
Xls. of thin sub-chalky fss. sub-sand
and pebbles to sub-1. Hoop rock
and H. pel. Flus. 10's. No lat. No visible

Lens. thin to heavy fss. cream to v. dk. blk.
to H. tan to tan sand to v. dk. blk.



Sub. with sub. ...
oil in ...
pol. ...
193; No cut; No vis. for.

Lens. H. gray, ...
Trs. tan, ...
sub-lithog. ...
193; No cut; No vis. for.

Lens. med. gray - v. to ext. ...
x4; sub. ...
No Fluor., No cut, No Dis. for

Sh med to dk. gray; v. to ext. ...

Sh med to v. dk. gray. ...
to black - ...

Lens. H. gray to tan, ...
Trs. sub. ...

OIL IN M.D. FILLED OPH.
CHROMATOGRAM

4900

44945-2277

BLK. SM. 950

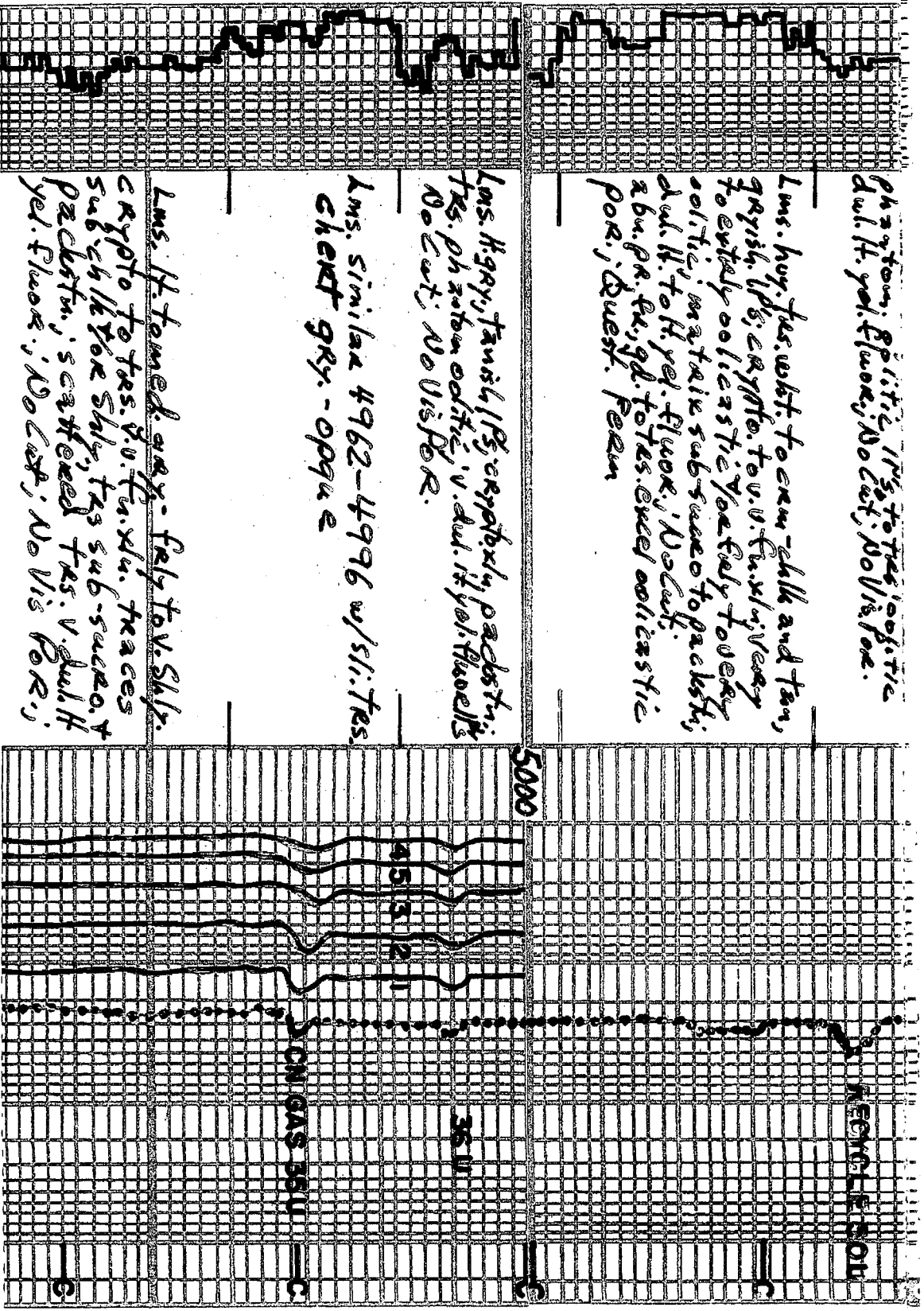
Ph 2 atom; Politic; 175 to the 100 ft
dul H. yol. Fluor; No Cat; No Vis for.

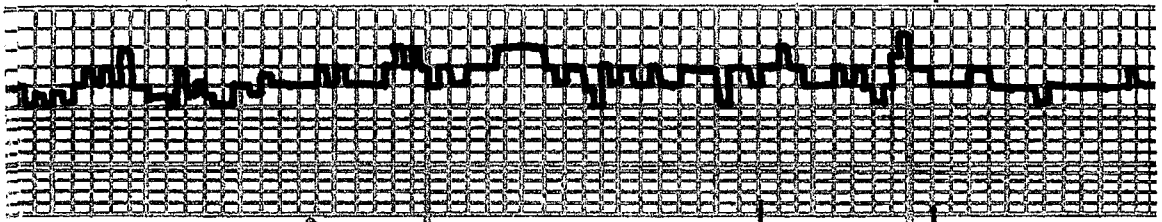
Lms. hvy. fus. whet. to cream-alk and tan,
grayish. lps; crypto. to v. v. Fus. lvs; very
to ext. polycolastic yol. fus. to very
colitic; meta. taik sub. succo to packst;
dul. H. to H. yol. Fluor; No Cat;
a bu. pr. Rx; qd. to fus. excel col. i. a. stic
por.; Quest. Perm

Lms. H. gray; tanish lps; crypto. to packst;
fus. ph. z. to a. oditic; v. dul. H. yol. Fluor; lvs
No Cat; No Vis for.

Lms. similar 4962-4996 w/ sl. fus.
chert gry. - opaque

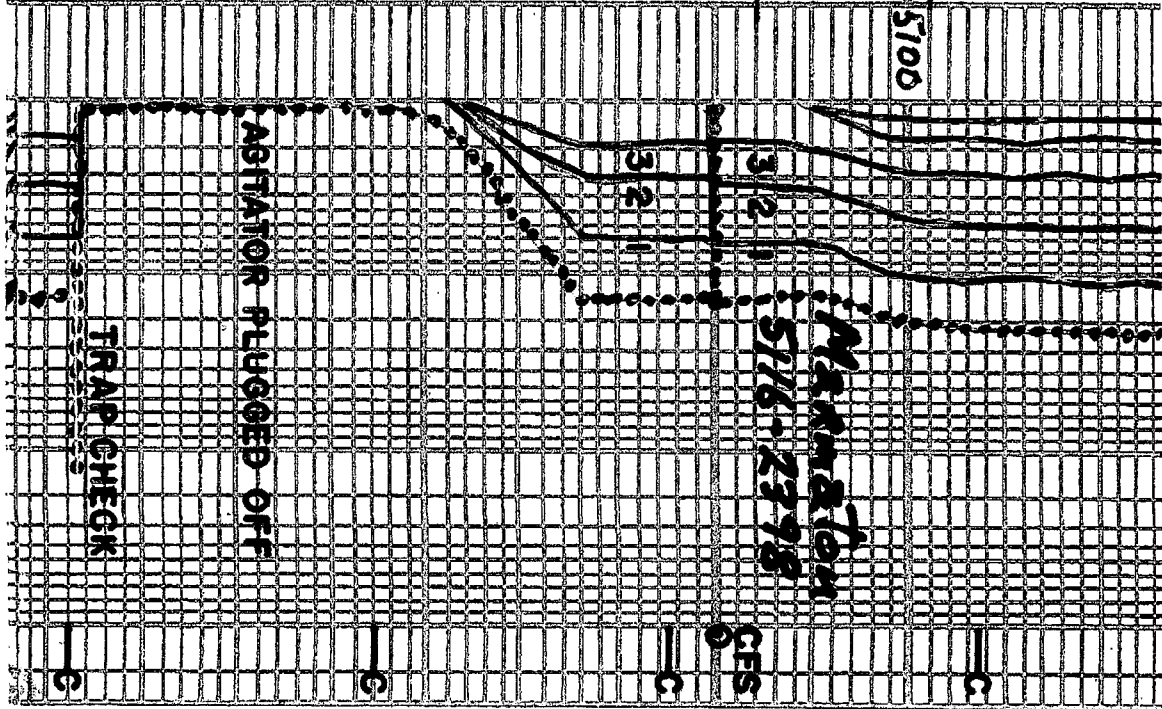
Lms. H. to med. gray. Fus. to v. Shly.
crypto. to fus. v. v. Fus. lvs. traces
sub. ch. lvs for shly; fus. sub. succo. v.
packst. is cat. fused fus. v. dul. H.
yol. Fluor; No Cat; No Vis for;





Sh med to v. dekgay. + tres black
w/prob. interabods Lms. similar 5040-5098

Lms. H. q. r. T. u. i. s. h. q. r. y. s. t. a. n. f. o. r. a.
c. o. r. p. t. a. f. o. t. a. s. v. v. f. a. s. i. n. i. s. t. a. s. s. u. b. c. h. i. l.
t. a. s. s. u. b. s. u. a. c. e. s. p. a. c. k. e. t. s. t. o. s. u. b. l. i. t. h. o. g. e.
d. y. l. y. e. l. t. o. t. a. s. y. e. l. f. l. u. o. r. i. d. e. c. a. t. s.
N. o. V. i. s. p. o. r.



5100

516-2398
MAGNETON

AGITATOR PLUGGED OFF

TRAP CHECK

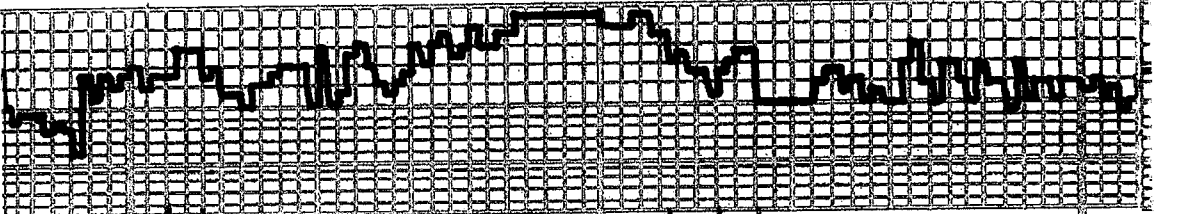
CES

C

C

C

C



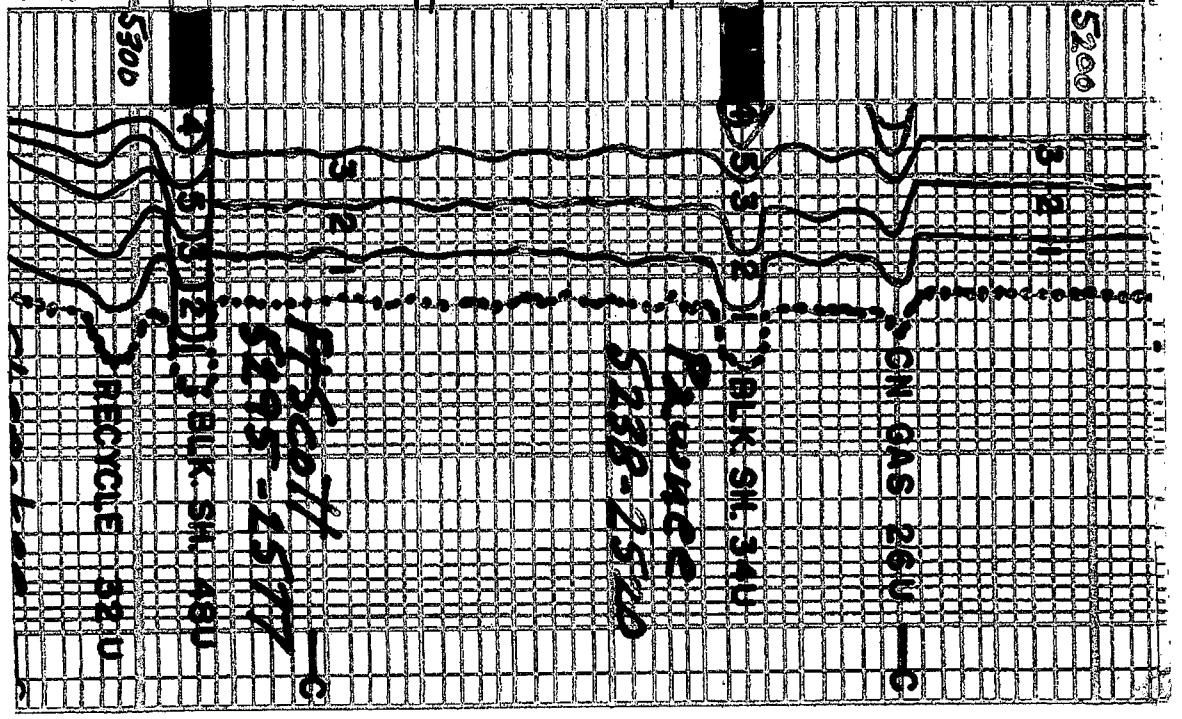
Sh v. drk. gray to black - carb.
Lms. similar 5116 - 5234

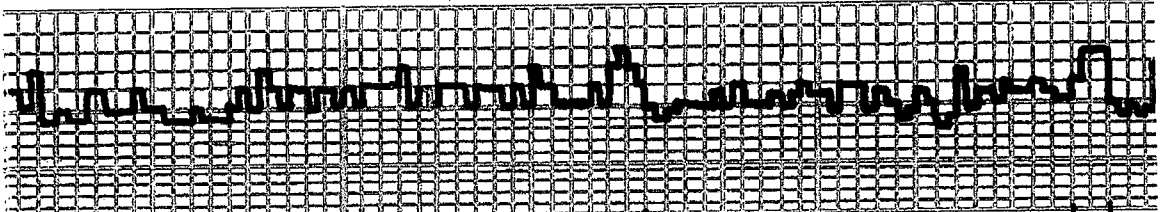
Lms. abn. wht. to cream - chlt to gray wht. to tan
crypto to v. v. f. on xray; very to w. xray;
oolitic; some f. on xray; to very odd; it is
matrix; f. as sub-ortho; sub-sucra.
+ pale; wht. to sub-ortho; wht. f. on xray; No cast
abruptly; f. on xray; to even; ochraceous; for
Quartz over

Lms. H. gray to tan; wht. gray; crypto. to v. v. f.
xray; f. as sub-ortho; f. as sub-sucra. +
pale; wht. to sub-ortho; wht. f. on xray; No cast; No
No cast; No V. Por.

Sh v. drk. gray to black - carb

Lms. H. gray; tan; wht. 1P's to tan; crypto
xray; pale; wht. to sub-ortho; wht. f. on xray; Pale
wht. H. gray; fluor. 1P's; Abn. wht. f. on xray; Por



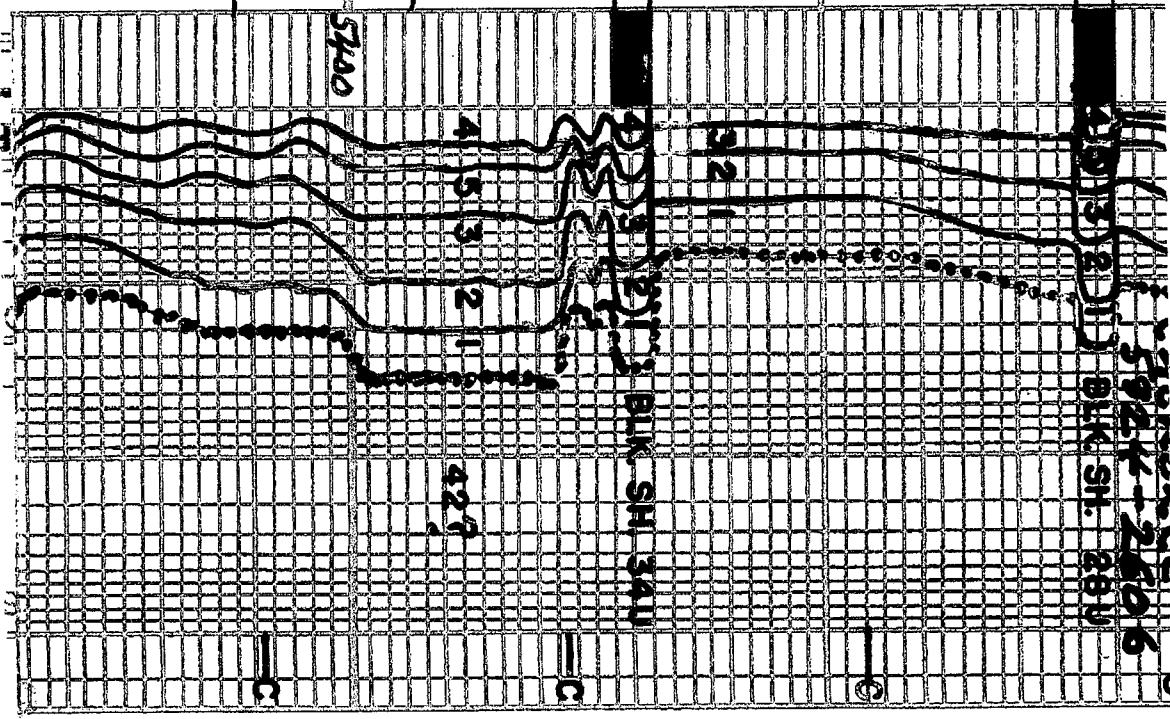


Sh v. dark gray to black - carb

Lms. similar 5295-5320 w/
 rbn. lms. grayish. tan; carpto. xln
 sub. with opaque yellow. Fluor
 No cut; No Vis. Por

Sh v. dark gray to black - carb

Lms. med to dark gray - faly to extly
 Shly. i carpto. xln. f to fas v.d. tan. xln;
 fas. sub-succro. Pack stst sub. lth ope
 dul pol Fluor, Ad Cut; No Vis Por

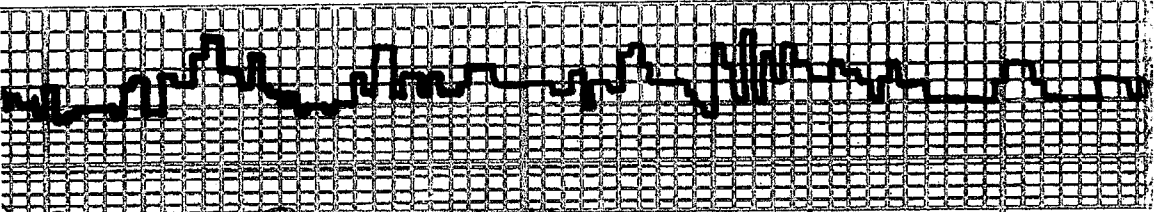


5924-2606
 BLK SH. 28W

BLK SH 3AU

C

C

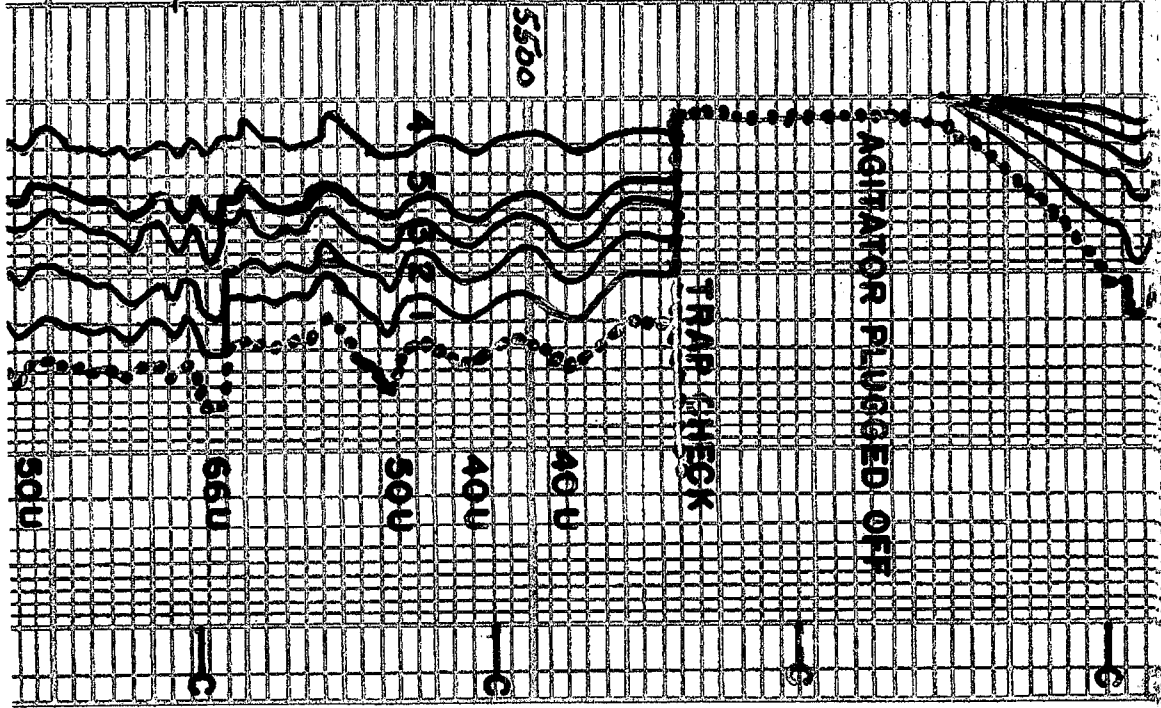


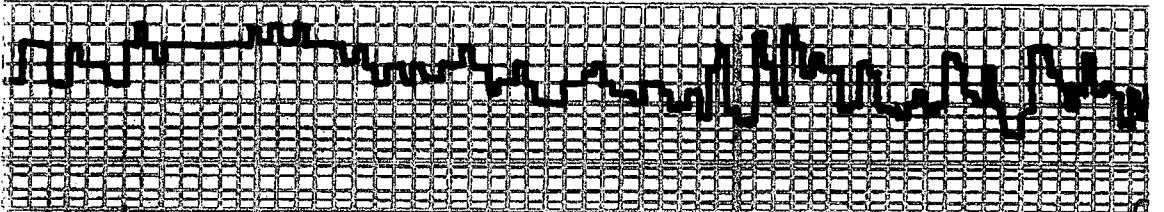
Interbedded limestones and shales

① Lms; H. gray, grayish tan to tan, cr. to v. u. tan; sh. sub-chalk, sub-sandy, p. cherty & sub-lith. op. i. ph. atom. pebbly; sh. sub. ch. yel. fl. u. k. No. cut No. vis. for

② Lms. med to dk. gray v. to ext. sh. sh. gray to calc. sh. cr. to sh. sh. sub-chalk to sh. sh. p. cherty and sh. sub. ch. 1. lith. op. r. i. No. fl. u. k. No. cut No. vis. for

③ Sh. med to v. dk. gray sh. to ext. calc. sh. No. vis. for

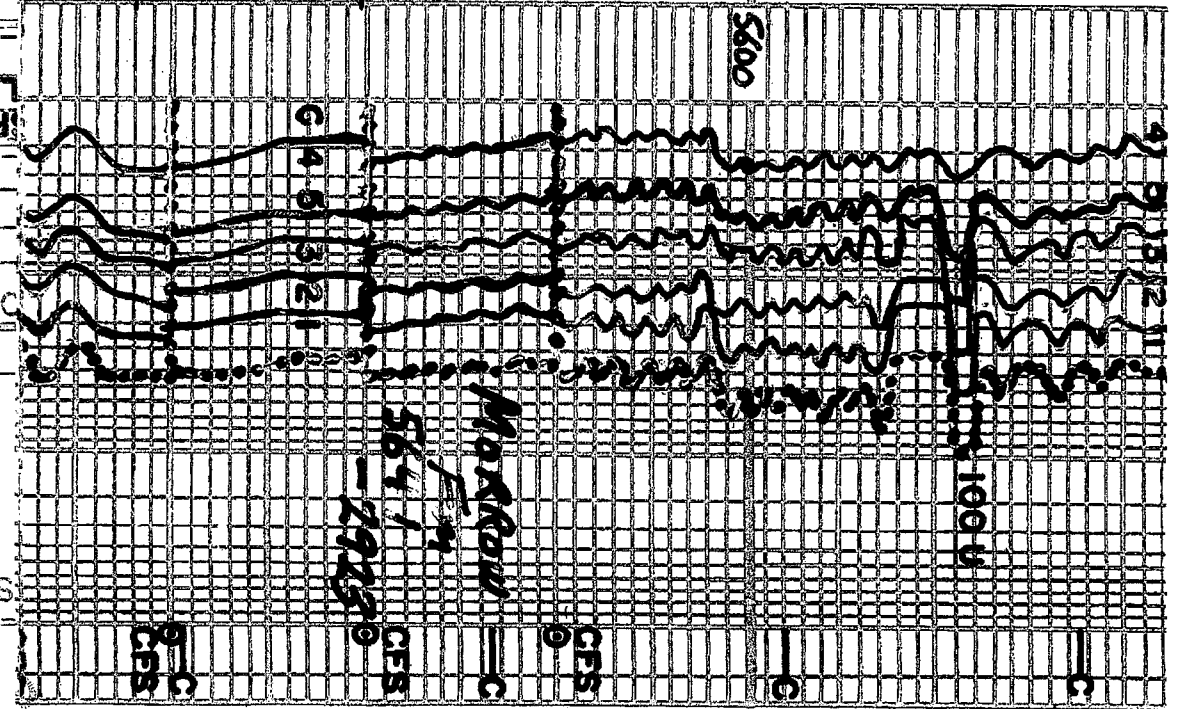




as in room you...

Sst 25-75 & Otzges to 25075 & Lungus
 UV. to fur. gr. & ag. v. p. p. s. o. w. i.
 tes. to v. q. b. n. g. l. a. u. c. w. p. u. f. o. p. a. i. t. e. t. a. s. w. i. t. h. s.
 to ab. f. i. n. e. l. y. d. i. s. s. e. m. i. n. a. t. e. d. p. r. a. i. t. e. f. a. i. n. t.
 all order: s. s. f. f. t. o. q. i. o. n. 4. 6. a. n. t. h. a. n. a. /

5241-5641 Sh. med to del. p. p. i. t. a. s. p. y. a. i. t. e



Stg: rdk. yel. floor. Flush to old steamy cuts
 No Vis for
 5680 - 5700 lms. H. bar; empty. No
 products to sub-lithop. rd. yel. floor; No
 No Vis for

5704-5713 D25 st has grey rest

Sp. to ban from gl. sp. v. v. v.
 for u. g. a. i. aug. p. e. to the. s. v. i. t.
 sif filled 195; this is by the place and for
 colorite; sp. on older g. l. w. q. floor; fluid
 fa. even; steamy cuts; aug. p. e. to the. s. v. i. t.
 micao. pp. to lot. d. r. p. o. o. r.

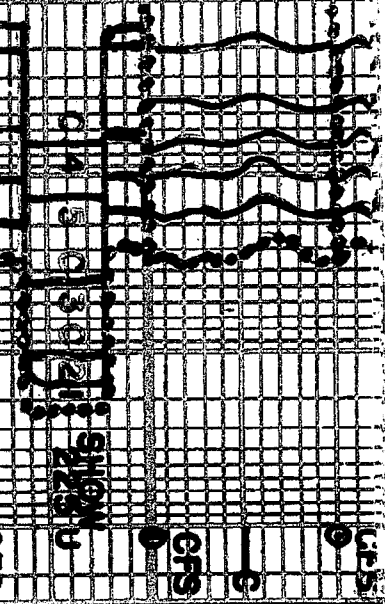
low; H. g. r. to r. u. i. e. y. l. o. to u. v. i. t. d. y. t. s.
 sub. d. k. i. t. g. sub. l. e. o. p. e. d. i. s. i. n. g. u. l. u. r.
 fluor; millip. cuts to ramp. cuts 300 Vis for

5713 in med. grey tanish sp. D25 str. 195
 v. u. g. a. - aug. i. p. d. y. s. d. i. s. t. o. l. e. f. l. l. e. d.
 has taken the place of on the site; this is
 res. to h. y. f. e. d. p. r. a. i. t. e. i. h. y. t. a. s. s. p. o. t. a. e. u. v. i. t.
 d. e. k. f. a. n. o. i. s. t. a. q. u. e. e. r. i. t. y. p. e. d. f. l. o. w. t. i. n. g. t. o.
 g. l. s. t. e. a. m. y. q. u. i. t. s. d. o. v. i. s. f. o. r. u. s. e. e. s. t. h. o. r. y. i. n. t. e. d. e.
 or pred. d. i. s. i. m. i. l. i. t. a. t. i. o. n. s. i. t. i. y. s. t. o. s. l. u. g. m. e. d. t. o. d. e. l.
 g. l. y.

5745 - 59 fragm. Long. tan; v. v. t. o. m. e. d. s. t. a.
 cones of a. u. s. t. o. l. o. s. e. k. i. n. g. e. s. t. o. s. i. e. r. e. s. t.
 o. o. l. i. t. e. s. e. y. t. o. j. u. s. t. i. v. i. t. i. n. g. n. e. a. r. t. a. i. n. s. u. b. d. i. k.
 sub. s. u. p. e. o. f. o. s. a. c. k. o. v. i. a. s. p. a. c. k. i. t.
 s. u. s. s. i. d. i. o. n. e. s. e. u. g. n. d. e. k. t. p. o. p. e. n. s. i.
 s. t. i. n. g. i. d. u. y. e. l. f. l. o. w. v. i. t. u. s. t. t. o. g. l.
 s. t. i. n. g. m. i. n. e. c. u. t. s. i. t. a. s. p. e. m. i. c. a. o. p. p.
 p. o. o. r.

5754 - 5796 lms. med to dark grey -
 v. to etaly. s. l. y. s. i. e. p. t. o. y. l. i. s. p. a. c. k. i. t.
 No elior; No cut; No Vis for

5700



5795-3927

36U
 34U
 30U

CFS

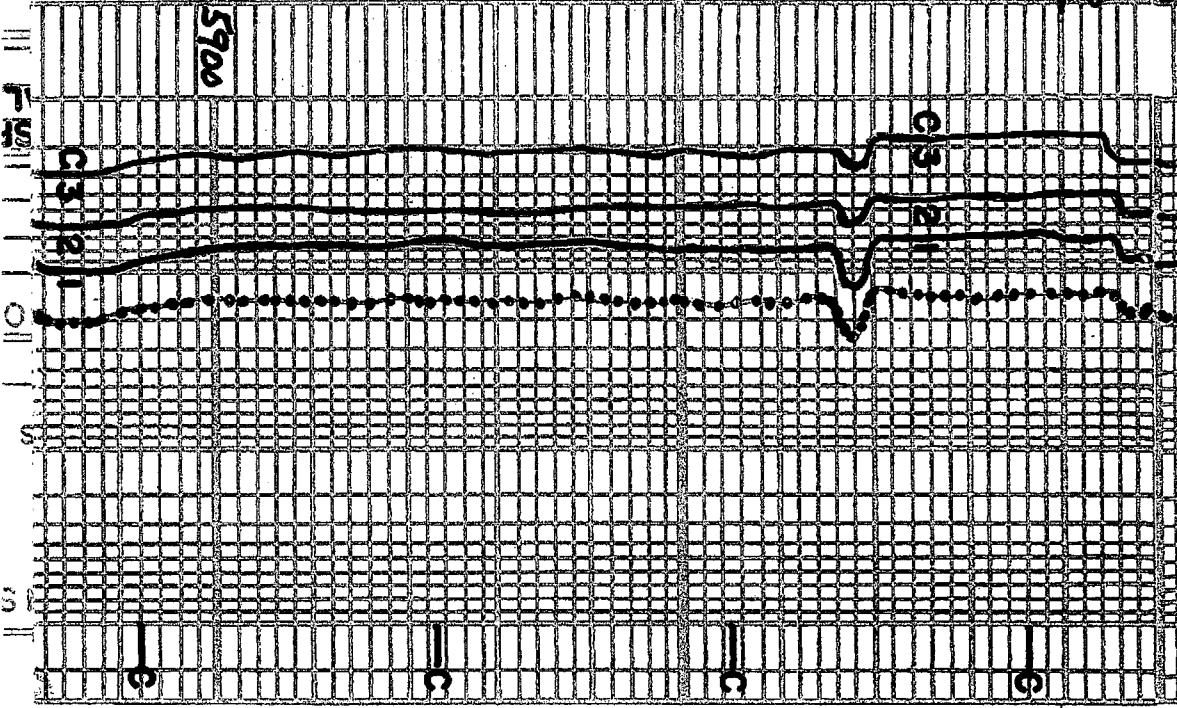
Compacted limestones, fossiliferous, well bedded, crystalline
to soft, shaly, in places yellowish, sub-fossiliferous
sparsely, and yellowish, shaly, No. 10 & 11

Low H. to med. gray, tanish, fine crystalline, shaly
v. to ext. shaly, shaly, grading to calc. sh. s.
sub-shaly, v. shaly, to parting, interbedded
tes. v. dull, gray, blue, No. 12
No. 13, 14

w/5' capped, has low similar
5796-5810 part from above

Interbedded to a Conglomeratic
D. low H. gray to tan, gray, greenish, low

To greens & tan, pinkish, Crap, & brown
shaly, has sub-shaly, has sub-shaly, No. 15
No. 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100



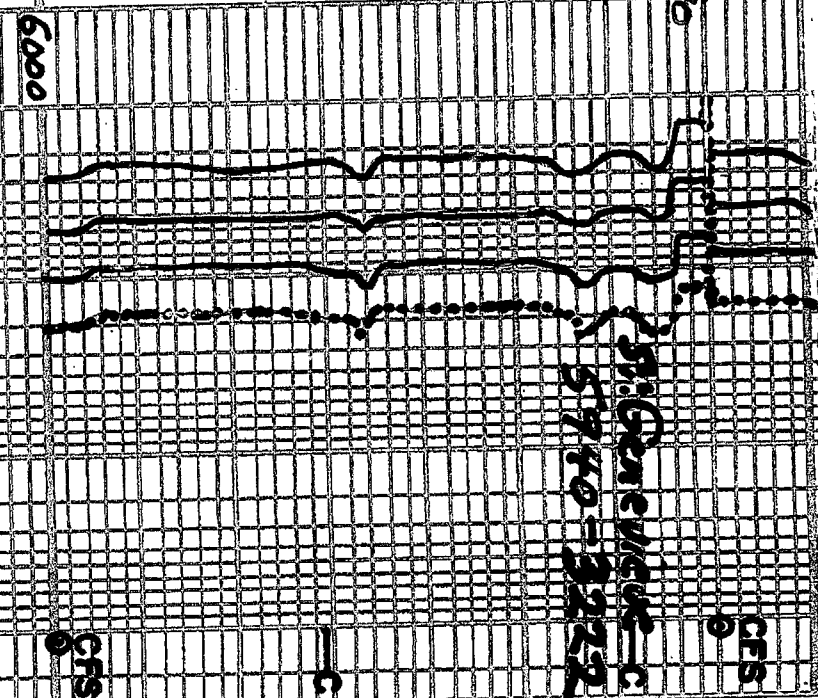
Time 14:20 W/S: 14:25 Brn. to m of 15th
well sorted, 9 dwt. El. 14:30 W/S: 14:35 to
9d steam mg cuts, No distal 15000 to
5000 (X amp)

In tabular below on mentio similar 5001-5030
W/S has greenish tan, fine to coarse, white
V. to grayish dr. o. oolitic for 51. to 100 dwt
Sd. - V. in gr. dr. mat. x sub. with
top sub-sub. dr. hdy. has spots to 100 dwt
dark 2-4 of 1500 W/S dr. dr. dr. dr. dr.
Fluo w/ slow flash cut top steam cuts
No Vis Por

Lms: greenish tan to tanish gr. greenish
V. to extaly micaceous. oolitic for 51. to 100
dwt Sd. V. in gr. dr. mat. x sub. with
top sub-sub. dr. hdy. has spots to 100 dwt
dark 2-4 of 1500 W/S dr. dr. dr. dr. dr.
Fluo w/ slow flash cut top steam cuts
No Vis Porosity

TD 6000

7 7/8 inch Bit Info
#1 PDC Bit Baker-Hughes DP 506F
in 1655 out 4200
#2 New Tricone Button Baker-Hughes GR 28C
in 4200 out 6000 TD
Deviation Sec U. 2.0



1. 10'9" 1/8" 5' 5'188 1/2" 0
 2. 1709 1/8" 6. 5'188 1/2" 0
 3. 2772 1/8" 7. 5720 1 1/4" 0
 4. 4200 1/2" 8. 6000 1 3/4" TD

Cir Points
 1. 4480 8. 5700
 2. 4717 9. 5720
 3. 5120 10. 5740
 4. 5620 11. 5760
 5. 5640 12. 5780
 6. 5660 13. 5930
 7. 5680 14. 6000 TD

Daily Dely. Progress

1. 4200 At 12:23 AM 7-19-12
 2. 4200 At 7:00 AM 7-19-12
 3. 4440 At 7:00 AM 7-20-12
 4. 4480 At 7:00 AM 7-21-12
 5. 4717 At 7:00 AM 7-22-12
 6. 4801 At 7:00 AM 7-23-12
 7. 5164 At 7:00 AM 7-24-12
 8. 5465 At 7:00 AM 7-25-12
 9. 5685 At 7:00 AM 7-26-12
 10. 5720 At 7:00 AM 7-27-12
 11. 5843 At 7:00 AM 7-28-12
 12. 6000 At 7:00 AM 7-29-12

DST #1 Lasting "A" 4470-4480
 ID 808 main GTS 23 min

FIG

FR BUD 1 min Flowing Gas 151M
Rec: 3948 ft gas in pipe

944# 560 10%G:9020

177# 56MD 10%G:7520:152M

178# M60 10%G:8530:52M

Total Fluid Rec 4494# Oil/Gas 36ARI

BHT 1150F

1HP 2185# in 30 min

1EP 48-74# in 30 min

1SP 1003# in 60 min

1FEP 63-139# in 60 min

1SIP 1002# in 120 min

1HP 2157#

DST #2 Lansing "G" 4690-4717

TO weak surf. flow built to 4 1/2 in 30 min

FO No Blow

Rec 90ft 100% Mud

BHT 1150F

1HP 2245#

1EP 23-52# in 30 min

1SIP 1369# in 60 min

1FEP 57-76# in 30 min

1SIP 1369# in 60 min

1HP 2211

DST #3 Morewood, 5698-5720

ID surface blow built to 8 in. in 30 min

FO surface blow built to 6 1/2 in. in 60 min

Rec 15ft OCM 10% oil 90% mud

BHT 1300F

1HP 2211

1979 1970-280# in 30min
 151P 197# in 60min
 1979 320# in 30min
 151P 320# in 120min
 1979 2685#

Med. Info:

Date	7-18 10:5A	7-19 10:00A	7-20 8:30A	7-21 11:15A	7-22 11:00A	7-23 11:00A	7-24 7:00P	7-25 11:00A
Depth	3623	4200	4467	4480	4718	4863	5261	5508
Wt.	9.0	9.1	9.2	9.1	9.0	9.0	9.0	9.0
V.S.	40	49	46	49	54	53	62	63
PV	10	14	16	17	19	18	27	26
YP	18	8	5	11	15	14	11	18
ES	10/22	6/14	4/10	8/14	10/24	10/9	8/15	6/12
W/L	44.0	44.8	11.4	10.2	8.4	8.0	8.0	8.0
Calc	3/32	2/32	2/32	2/32	2/32	1/32	1/32	1/32
PH	9.0	10.5	11.0	11.0	11.0	11.0	11.0	11.0
Ch1	9000	4100	4000	4000	3500	3800	3500	3100
Ch2	480	100	60	120	120	100	60	100
LCM	4	4	4	8	8	10.0	8.0	10.0

2

2

2

2

2

Date	7-26 Good	7-27 Good	7-28 Good	7-29 Good
Depth	5100	5720	5873	6000
Wt	9.0	8.9	8.9	9.0
Vis	74	64	56	70
PV	29	23	17	26
YP	23	17	13	18
GS	1/25	10/18	8/14	1/24
W/L	7.4	8.8	8.0	8.0
Calc	1/32	1/32	1/32	1/32
PH	12.0	11.0	11.0	11.0
ELI	2800	4400	3200	3100
CA	80	100	80	100
LCM	10.0	10.0	8.0	8.0

OPERATOR **RAYDON EXPLORATION, INC.** LOCATION **1485 FSL @ 1535 FWL**
 LEASE **FOX** NO. **1-30** SEC. **30** TWP. **33S** RMO. **30W**
 ELEVATION **2718** ATD **6000** COUNTY **MEADE** STATE **KANSAS**