

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1260293
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: _____

1260293

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 <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 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
<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: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____				
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> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Slawson Exploration Company, Inc.
Well Name	David Ketterl 1-30
Doc ID	1260293

All Electric Logs Run

CNL
CDL
ML
Sonic
DIL

Form	ACO1 - Well Completion
Operator	Slawson Exploration Company, Inc.
Well Name	David Ketterl 1-30
Doc ID	1260293

Tops

Name	Top	Datum
Anhy	2562	+214
B/Anhy	2592	+184
Topeka	3621	-845
Oread	3722	-946
Heebner Sh	3734	-958
Lansing	3776	-1000
Lans D	3900	-1124
Lans E	3937	-1161
B/KC	4008	-1232
PAWN	4118	-1342
Cher SD	4236	-1460
Arbuckle	4321	-1545
Reagan sd	4458	-1682



DRILL STEM TEST REPORT

Prepared For: **Slawson Exploration Co Inc**

204 N Robinson Ave STE 2300
Oklahoma City OK 73102

ATTN: Pete Debenham

David Ketterl #1-30

30-1s-30w Decatur,KS

Start Date: 2015.07.24 @ 06:00:00

End Date: 2015.07.24 @ 13:08:00

Job Ticket #: 62803 DST #: 1

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2015.07.28 @ 09:51:23



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Slawson Exploration Co Inc
 204 N Robinson Ave STE 2300
 Oklahoma City OK 73102
 ATTN: Pete Debenham

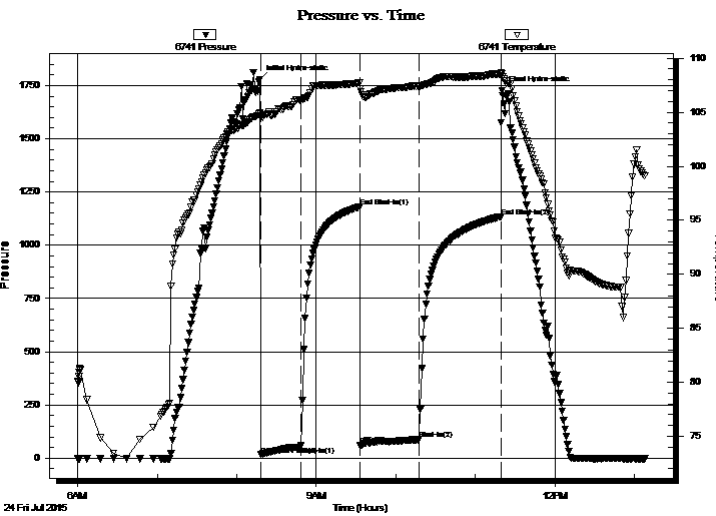
30-1s-30w Decatur, KS
David Ketterl #1-30
 Job Ticket: 62803 **DST#: 1**
 Test Start: 2015.07.24 @ 06:00:00

GENERAL INFORMATION:

Formation: **Oread**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 08:18:00
 Time Test Ended: 13:08:00
 Interval: **3656.00 ft (KB) To 3740.00 ft (KB) (TVD)**
 Total Depth: 3740.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Robert Zodrow
 Unit No: 66
 Reference Elevations: 2774.00 ft (KB)
 2766.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 6741 Inside
 Press@RunDepth: 87.52 psig @ 3657.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2015.07.24 End Date: 2015.07.24 Last Calib.: 2015.07.24
 Start Time: 06:00:05 End Time: 13:07:59 Time On Btm: 2015.07.24 @ 08:17:30
 Time Off Btm: 2015.07.24 @ 11:20:00

TEST COMMENT: 30-IF- Blow built to 3"
 45-ISI- No Return
 45-FF- Blow Built to 3"
 60-FSI- No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1779.35	104.92	Initial Hydro-static
1	15.90	104.47	Open To Flow (1)
31	57.40	106.08	Shut-In(1)
75	1180.60	107.75	End Shut-In(1)
76	60.00	107.15	Open To Flow (2)
120	87.52	107.34	Shut-In(2)
182	1134.37	108.54	End Shut-In(2)
183	1726.87	108.61	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
150.00	Mud 100%M	1.01

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Slaw son Exploration Co Inc
204 N Robinson Ave STE 2300
Oklahoma City OK 73102
ATTN: Pete Debenham

30-1s-30w Decatur,KS
David Ketterl #1-30
Job Ticket: 62803 **DST#: 1**
Test Start: 2015.07.24 @ 06:00:00

Tool Information

Drill Pipe:	Length: 3511.00 ft	Diameter: 3.80 inches	Volume: 49.25 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: 25000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 49.84 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	2.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	3656.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	84.00 ft			
Tool Length:	111.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3634.00	
Hydraulic tool	5.00			3639.00	
Jars	5.00			3644.00	
Safety Joint	3.00			3647.00	
Packer	5.00			3652.00	27.00 Bottom Of Top Packer
Packer	4.00			3656.00	
Stubb	1.00			3657.00	
Recorder	0.00	6741	Inside	3657.00	
Recorder	0.00	8521	Outside	3657.00	
Perforations	16.00			3673.00	
Change Over Sub	1.00			3674.00	
Drill Pipe	62.00			3736.00	
Change Over Sub	1.00			3737.00	
Bullnose	3.00			3740.00	84.00 Bottom Packers & Anchor

Total Tool Length: 111.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Slaw son Exploration Co Inc
204 N Robinson Ave STE 2300
Oklahoma City OK 73102
ATTN: Pete Debenham

30-1s-30w Decatur,KS
David Ketterl #1-30
Job Ticket: 62803 **DST#: 1**
Test Start: 2015.07.24 @ 06:00:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 8.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.99 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 800.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

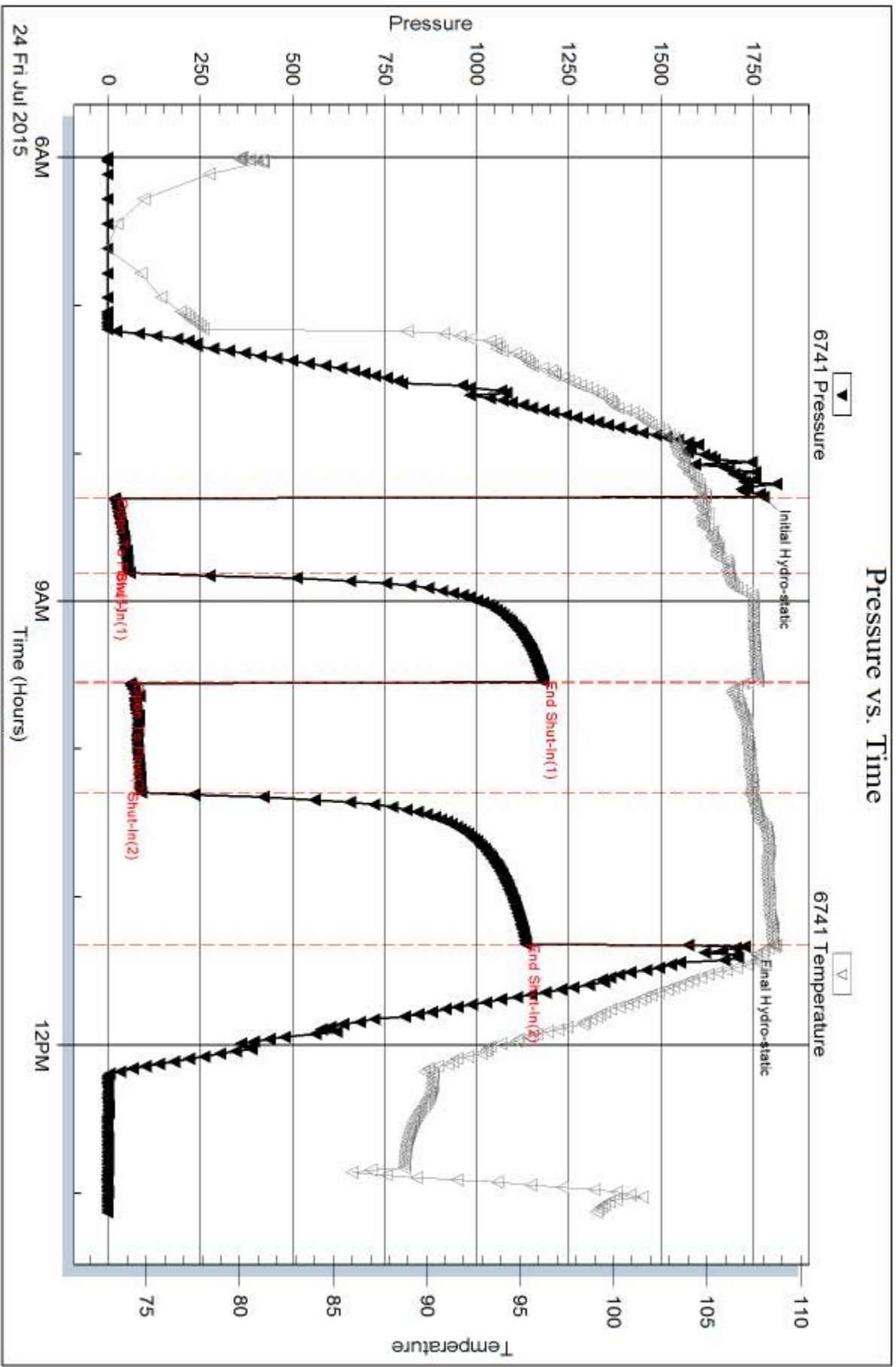
Length ft	Description	Volume bbl
150.00	Mud 100%M	1.011

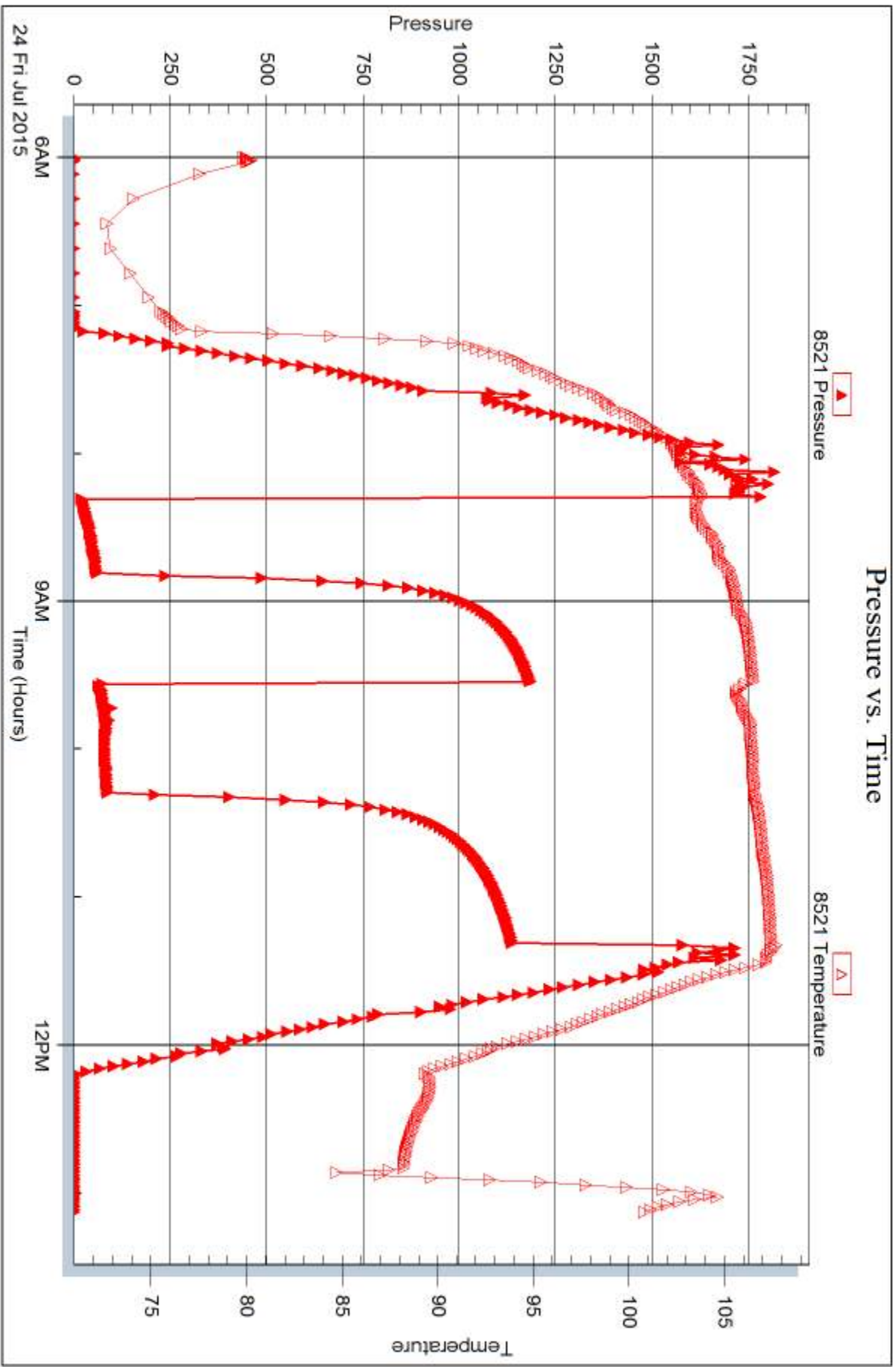
Total Length: 150.00 ft Total Volume: 1.011 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Slawson Exploration Co Inc**

204 N Robinson Ave STE 2300
Oklahoma City OK 73102

ATTN: Pete Debenham

David Ketterl #1-30

30-1s-30w Decatur,KS

Start Date: 2015.07.25 @ 14:35:00

End Date: 2015.07.25 @ 22:04:00

Job Ticket #: 62804 DST #: 2

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2015.07.28 @ 09:50:26



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Slaw son Exploration Co Inc
 204 N Robinson Ave STE 2300
 Oklahoma City OK 73102
 ATTN: Pete Debenham

30-1s-30w Decatur, KS

David Ketterl #1-30

Job Ticket: 62804

DST#: 2

Test Start: 2015.07.25 @ 14:35:00

GENERAL INFORMATION:

Formation: **LKC "D-E"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 16:39:30
 Time Test Ended: 22:04:00
 Interval: **3882.00 ft (KB) To 3960.00 ft (KB) (TVD)**
 Total Depth: 3960.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Robert Zodrow
 Unit No: 66
 Reference Elevations: 2774.00 ft (KB)
 2766.00 ft (CF)
 KB to GR/CF: 8.00 ft

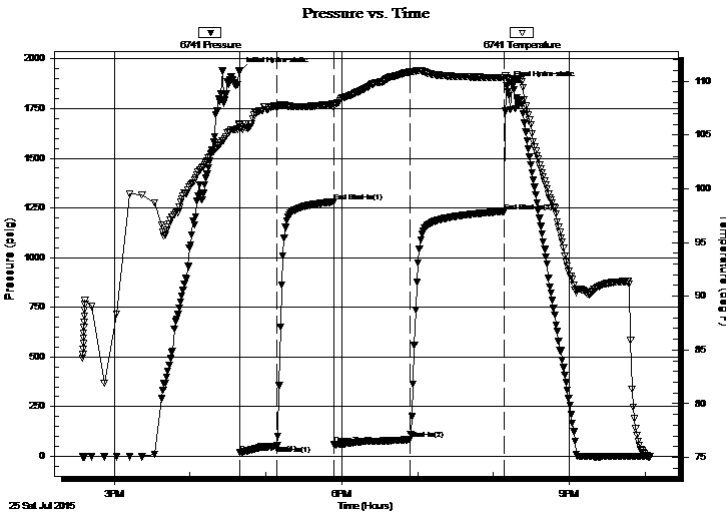
Serial #: 6741

Inside

Press@RunDepth: 83.98 psig @ 3883.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2015.07.25 End Date: 2015.07.25 Last Calib.: 2015.07.25
 Start Time: 14:35:05 End Time: 22:03:59 Time On Btm: 2015.07.25 @ 16:39:00
 Time Off Btm: 2015.07.25 @ 20:10:30

TEST COMMENT: 30-IS- Blow built to 2 1/4"
 45-IS- No return
 60-FF- Blow built to 3 3/4"
 75-FS- No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1938.55	106.00	Initial Hydro-static
1	16.85	105.58	Open To Flow (1)
30	52.85	107.68	Shut-In(1)
75	1280.84	107.88	End Shut-In(1)
75	58.74	107.54	Open To Flow (2)
135	83.98	110.90	Shut-In(2)
210	1232.99	110.36	End Shut-In(2)
212	1863.51	110.31	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
150.00	WM with oil spots 30%W 70%M	1.01

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Slawson Exploration Co Inc
204 N Robinson Ave STE 2300
Oklahoma City OK 73102
ATTN: Pete Debenham

30-1s-30w Decatur,KS
David Ketterl #1-30
Job Ticket: 62804 **DST#: 2**
Test Start: 2015.07.25 @ 14:35:00

Tool Information

Drill Pipe:	Length: 3761.00 ft	Diameter: 3.80 inches	Volume: 52.76 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: 25000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 66000.00 lb
			<u>Total Volume: 53.35 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	3882.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	78.00 ft			
Tool Length:	105.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3860.00	
Hydraulic tool	5.00			3865.00	
Jars	5.00			3870.00	
Safety Joint	3.00			3873.00	
Packer	5.00			3878.00	27.00 Bottom Of Top Packer
Packer	4.00			3882.00	
Stubb	1.00			3883.00	
Recorder	0.00	6741	Inside	3883.00	
Recorder	0.00	8521	Outside	3883.00	
Perforations	10.00			3893.00	
Change Over Sub	1.00			3894.00	
Drill Pipe	62.00			3956.00	
Change Over Sub	1.00			3957.00	
Bullnose	3.00			3960.00	78.00 Bottom Packers & Anchor

Total Tool Length: 105.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Slaw son Exploration Co Inc
204 N Robinson Ave STE 2300
Oklahoma City OK 73102
ATTN: Pete Debenham

30-1s-30w Decatur,KS
David Ketterl #1-30
Job Ticket: 62804 **DST#: 2**
Test Start: 2015.07.25 @ 14:35:00

Mud and Cushion Information

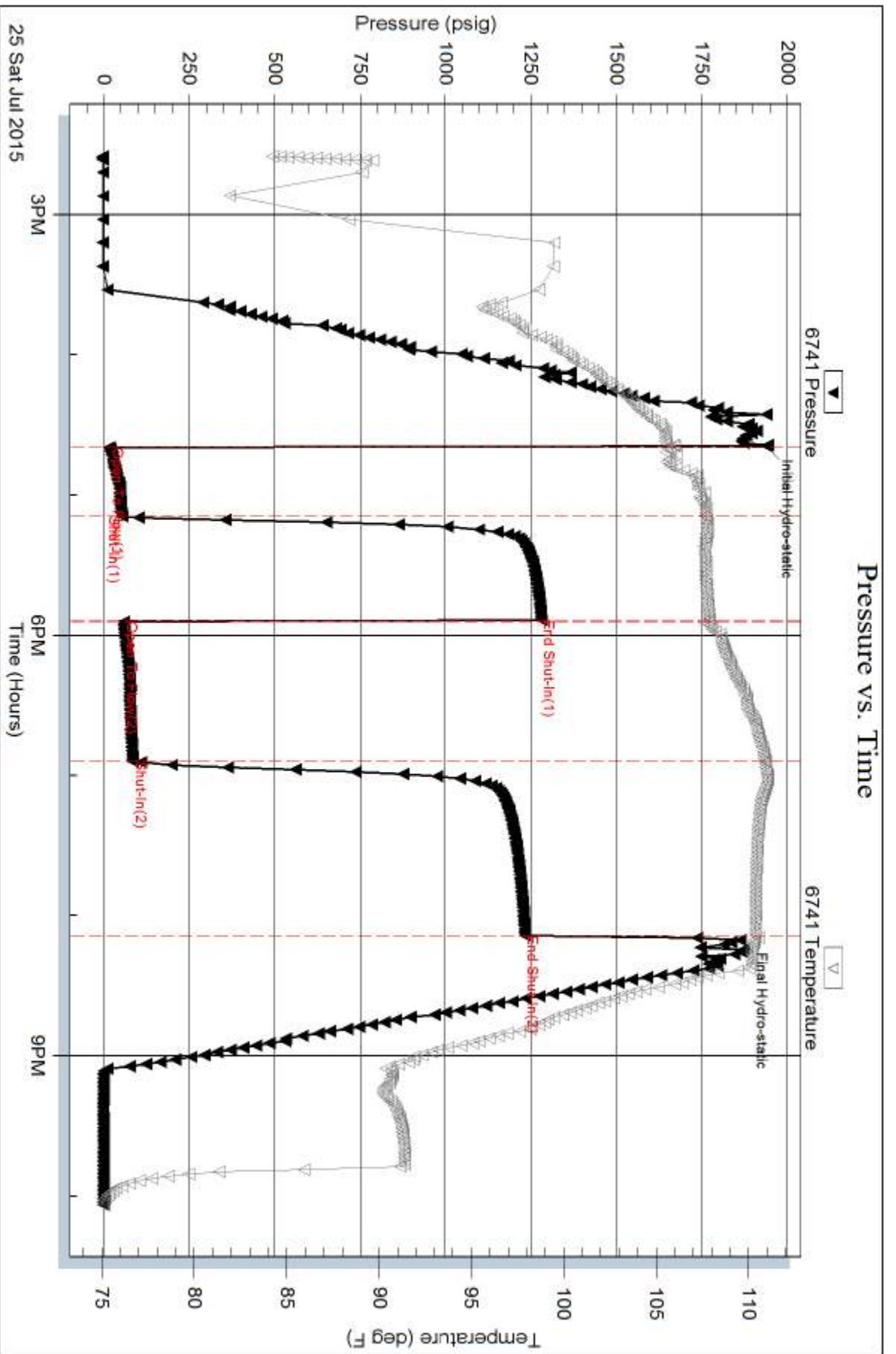
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	14000 ppm
Viscosity: 63.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.79 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 2000.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
150.00	WM with oil spots 30%W 70%M	1.011

Total Length: 150.00 ft Total Volume: 1.011 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments: RW .405 @ 85 Deg =14000

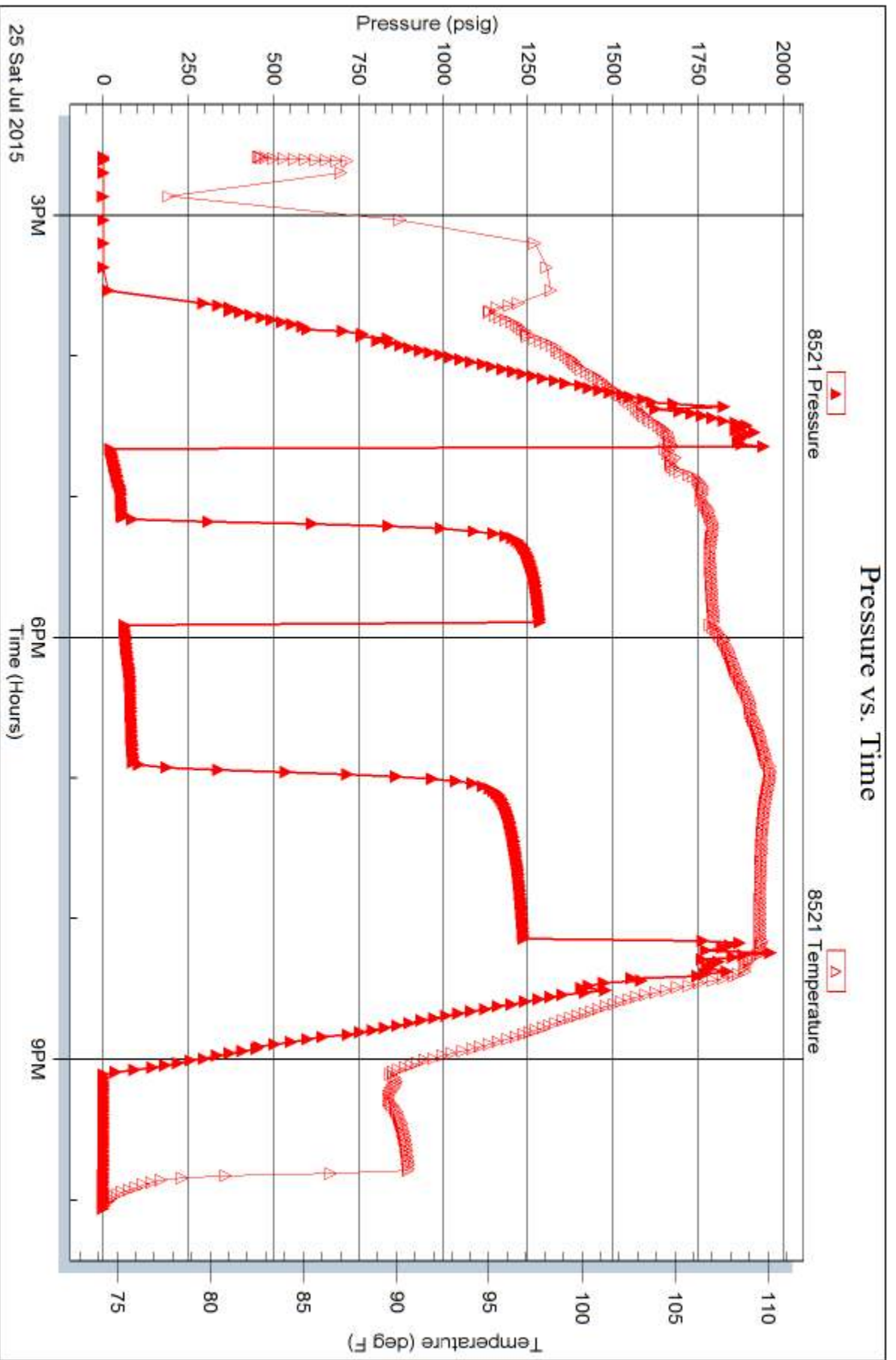


Serial #: 8521

Outside Saw son Exploration Co Inc

David Ketterl #1-30

DST Test Number: 2





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 62803

Well Name & No. David Ketterl #1-30 Test No. 1 Date 7-24-2015
 Company Slawson Exploration CO. Inc Elevation 2774 KB 2766 GL
 Address 204 N Robinson Ave STE 2300 Oklahoma city OK, 73102
 Co. Rep / Geo. Pete Debenham Rig WW #12
 Location: Sec. 30 Twp. 15 Rge. 30W Co. Decatur State K5

Interval Tested 3656 — 3740 Zone Tested Oread
 Anchor Length 84 Drill Pipe Run 3511 Mud Wt. 8.4
 Top Packer Depth 3652 Drill Collars Run 120 Vis 50
 Bottom Packer Depth 3654 (shale) Wt. Pipe Run 0 WL 8
 Total Depth 3740 Chlorides 800 ppm System LCM 2.5
 Blow Description IF - Blow built to 3"
ISI - NO return
FF - Blow built to 3"
FSI - NO return

Rec	Feet of	%gas	%oil	%water	%mud
<u>150</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	Feet of	%gas	%oil	%water	%mud

Rec Total 150 BHT 108 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 1779 Test 1050 T-On Location ~~04:30~~ 04:30 7-24
 (B) First Initial Flow 16 Jars 250 T-Started 06:00 7-24
 (C) First Final Flow 57 Safety Joint 75 T-Open 08:18 7-24
 (D) Initial Shut-In 1180 Circ Sub — T-Pulled 11:19 7-24
 (E) Second Initial Flow 60 Hourly Standby — T-Out 13:08 7-24
 (F) Second Final Flow 87 Mileage 48 RT 48 Comments —
 (G) Final Shut-In 1134 Sampler —
 (H) Final Hydrostatic 1726 Straddle — Ruined Shale Packer —
 Shale Packer 250 Ruined Packer —
 Extra Packer — Extra Copies —
 Initial Open 30 Extra Recorder — Sub Total 0
 Initial Shut-In 45 Day Standby — Total 1673
 Final Flow 45 Accessibility — MP/DST Disc't —
 Final Shut-In 60 Sub Total 1673

Approved By _____ Our Representative Robert Zolner

Trilobite 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.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 62804

Well Name & No. David Ketterl #1-30 Test No. 2 Date 7-25-2015
 Company SLawson Exploration CO Inc Elevation 2774 KB 2766 GL
 Address 204 N Robinson Ave STE. 2300 Oklahoma city OK, 73102
 Co. Rep / Geo. Pete Debenham Rig WW #12
 Location: Sec. 30 Twp. 1S Rge. 30 W Co. Decatur State K5

Interval Tested 3882 — 3960 Zone Tested LKC "D-E"
 Anchor Length 78 Drill Pipe Run 3761 Mud Wt. 8.9
 Top Packer Depth 3878 Drill Collars Run 120 Vis 63
 Bottom Packer Depth 3882 Wt. Pipe Run 0 WL 8.8
 Total Depth 3960 Chlorides 2000 ppm System LCM 1.5

Blow Description IF - Blow built to 2 1/4"
ISI - NO return
FF - Blow built to 3 3/4"
FSL - NO return

Rec	Feet of	%gas	%oil	%water	%mud
<u>150</u>	<u>uwm with oil spots</u>	<u>spotted</u>	<u>30</u>	<u>70</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 150 BHT 110 Gravity — API RW 405 @ 85° F Chlorides 14,000 ppm

(A) Initial Hydrostatic 1938
 (B) First Initial Flow 17
 (C) First Final Flow 53
 (D) Initial Shut-In 1280
 (E) Second Initial Flow 59
 (F) Second Final Flow 84
 (G) Final Shut-In 1232
 (H) Final Hydrostatic 1863

Test 1050
 Jars 250
 Safety Joint 75
 Circ Sub
 Hourly Standby
 Mileage 48 RT X2 48
 Sampler
 Straddle
 Shale Packer
 Extra Packer
 Extra Recorder
 Day Standby
 Accessibility
 Sub Total 1423

T-On Location 14:00 7-25
 T-Started 14:35 7-25
 T-Open 16:39 7-25
 T-Pulled 20:08 7-25
 T-Out 22:04 7-25
 Comments Drove out Loaded
tool 12:00 on
7-26-2015
 Ruined Shale Packer
 Ruined Packer
 Extra Copies
 Sub Total 0
 Total 1423
 MP/DST Disc't

Initial Open 30
 Initial Shut-In 45
 Final Flow 60
 Final Shut-In 75

Approved By _____ Our Representative Robert Zedner

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SLAWSON EXPLORATION CO., INC.

David Ketterl No. 1-30

Section 30, T1S, R30W
Decatur County, Kansas
July, 2015

Well Summary

The Slawson Exploration Co., Inc., David Ketterl No. 1-30 was drilled as a wildcat based on seismic to a total depth of 4545'. One on the closest offsets was the Frank A. Schultz, Frankie No. 1, Sec. 36, T1, R.31W – 1 ¾ miles to the SW. Formation tops ran relatively even to this offset(2' high to 9' low) from the Topeka to the BKC. The Arbuckle and Reagan Sand ran 15' and 7' high.

Several minor hydrocarbon shows were documented during the drilling of this test. The best occurring in the Oread(3721'-3732') and consisting of a Biomicritic Limestone with live oil in its moldic and vuggy porosity and explosive cut(live oil show in about 12% of the samples). This interval drillstem tested(3656'-3740') tight with no fluid recovery.

Additional minor shows occurred in the Lansing "D" and "E"(attached mudlog) and were drillstem tested (3882'-3960') and recovered 150' of watery mud(30% w) with oil spots.

The David Ketterl No. 1-30 was plugged and abandoned 7/28/15'

Respectfully Submitted,



Peter Debenham

WELL DATA

Operator: Slawson Exploration Co., Inc., 204 N. Robinson Ave, Ste. 2300, Oklahoma City, Oklahoma, 73102

Company Rep. and Geologist: Chris Gough, Denver.

Well: David Ketterl No. 1-30

Location: 770'FSL & 370'FEL, Sec 30, T1S, R30W, Decatur Co., Kansas, 6 miles East of Herndon

Surface Owner: David Ketterl,

API No.: 15-039-21220

Elevation: Ground Level 2768', Kelly Bushing 2776'

Contractor: WW Drilling, LLC. Rig No. 12, Double jacknife, TP Calvin Pfannenstiel, Drillers: Randy Scaurow, Wade Badger, Greg Ernst

Spud Date: 7/20/15

Total Depth: 7/27/15, Driller 4545', Logger 4542', Arbuckle Fm.

Casing Program: 8 5/8" set at 348'.

Mud Program: Kansas Drilling Tech., KDT, engineer Ken Rupp

Drillstem Testing: Trilobite, Engineer Robert Zodrow, DST No. 1(3656'-3740'), Oread Fm., DST No. 2(3882'-3960'), Lansing D & E

Wellsite Consultant: Peter Debenham, P.O. Box 350, Drake, CO 80515, 720/220-4860,

Samples: 10' to TD – one dry cut sent to KGS log library.

Electric Logs: Weatherford, Engineer Ben Weldin, 1) Dual Induction, 2) Neutron Density, 3) Microlog, 4) Sonic

Status: Plugged and abandoned 7/28/15.

WELL CHRONOLOGY

10 PM	<u>DATE</u>	<u>DEPTH</u>	<u>FOOTAGE</u>	<u>RIG ACTIVITY</u>
	7/20	348'	348'	Move to location and rig up rotary tools. Mix spud mud. Spud in 12 1/4" surface hole to 348' and circulate and jet cellar. Drop survey(1/2 deg.) and trip out and run and cement 8 5/8" set at 348', did circulate. Wait on cement.
	7/21	2213'	1865'	Wait on cement. Drill plug and cement and 7 7/8" hole to 2213'. Jet pits.
	7/22	3153'	940'	Jet pits and service rig.
	7/23	3740'	587'	Displace mud system at 3341'
	7/24	3800'	60'	To 3740' and circulate for samples. Short trip 26 stands and circulate. Strap out for DST No. 1(3656'-3740'), Oread Fm. - no depth correction. Trip in and run test and trip out and lay down tool. Trip in and try to circulate, plugged bit. Trip out and unplug bit and trip in and circulate and drill to 3800'.
	7/25	3960'	160'	Circulate for samples at 3874', 3920' and 3960'. Wiper trip 14 stands and circulate. Trip out for DST No. 2(3882'-3960'), Lansing "D" & "E" and run test. Pull and unload tool and trip in.
	7/26	4240'	280'	Jet pits and add premix and circulate hole clean. Circulate for samples at 3990', 4010' and 4048'. Service breaks.
	7/27	4545'TD	305'	Circulate for samples at 4274', 4472' and 4500'. To 4545'TD and circulate. Short trip and circulate and trip out for logs and run same.
	7/28	TD		Run ELogs and wait on orders. Trip in and circulate. Trip out laying down and plug and abandone well. Rig down.

MUD PROPERTIES

<u>DATE</u>	<u>DEPTH</u>	<u>WT</u>	<u>VIS</u>	<u>PV</u>	<u>YP</u>	<u>pH</u>	<u>WL</u>	<u>CL</u>	<u>LCM-LBS/BBL</u>
7/21	1367'	8.8	29	make up water					
7/22	2840'	9	31						
7/23	3341'	8.4	50	15	15	11.7	8.0	800	2 1/2
7/24	3740'	9	60	15	20	10.5	8.0	2000	2
7/25	3920'	8.9	63	15	20	9.3	8.8	2000	1 1/2
7/26	4077'	9.1	57	15	20	10.2	8.8	2500	1 1/2

BIT RECORD

<u>NO.</u>	<u>MAKE</u>	<u>TYPE</u>	<u>SIZE</u>	<u>OUT</u>	<u>FOOTAGE</u>	<u>HOURS</u>
1	Smith	RR	12 1/4"	348'	348'	2 3/4
2	Smith	F271Y	7 7/8"	4545'	4197'	113
Total Rotating Hours:						115 3/4
Average:						39.3 Ft/Hr

DEVIATION RECORD

348' 1/2, 3740' 3/4, 4545' 3/4

DRILL STEM DATA

DST NO. 1: (3654'-3740'), Oread Fm.

Type: Conventional Bottom Hole, Times: 30-45-45-60

Blows: IF - Slowly built to 3". FF - Steadily built to 3".

I & FSI - no blowback.

<u>PERIOD</u>	<u>PSI</u>
IH	1779
IF	16 - 57
ISI	1180
FF	60 - 57
FSI	1134
FH	1726

BHT 108 deg. F.

RECOVERY: 150' mud, no show.

DST NO. 2:(3882' - 3960'), Lansing "D&E"

Type: Conventional Bottom Hole, Times: 30-45-60-75

Blows: IF - Weak to 2 1/4" at end of period. FF - To 3 3/4".

I & FSI - no blowback.

<u>PERIOD</u>	<u>PSI</u>
IH	1938
IF	17 - 53
ISI	1280
FF	59 - 84
FSI	1232
FH	1863

BHT 110 deg. F.

RECOVERY: 150' of watery mud(30% w) with oil spots.

ELECTRIC LOG FORMATION TOPS- KB Elev. 2776'

<u>FORMATION</u>	<u>DEPTH</u>	<u>DATUM</u>	<u>*Frankie No. 1</u>	
			<u>DATUM</u>	<u>POSITION</u>
Surface Csg	340'			
Anhydrite	2561'	+215'	+212'	+3
Topeka	3620'	-844'	-846'	+2'
Oread	3721'	-945'	-941'	-4'
Heebner	3735'	-959'	-956'	-3'
Lansing	3776'	-1000'	-991'	-9'
B	3811'	-1035'	-1030'	-5'
C	3866'	-1090'	-1086'	-4'
D	3900'	-1124'	-1119'	-5'
E	3937'	-1161'	-1158'	-3'
F	3972'	-1195'	-1197'	+2'

G	3990'	-1214'	-1212'	+2'
BKC	4010'	-1234'	-1225'	-9'
Pawnee	4118'	-1342'	-1345'	+2'
Cherokee SS	4236'	-1510'	-1479'	-31'
Arbuckle	4321'	-1545'	-1479'	+15'
Reagan SS:	4458'	-1682'	-1689'	-17'
Granite Wash	4486'	-1710'	-1719'	+9'
TD	4545'			

*Frank A. Schultz, Frankie No. 1, Sec. 36, T1, R.31W - 1 3/4 miles to the SW, K.B. Elev. 2681'.

LITHOLOGY DESCRIPTION

SAMPLES ARE LAGGED
CORRECTED E-LOG FORMATION TOPS
*INDICATES HYDROCARBON SHOW

3390-3424 LIMESTONE: Lt to medium brown to gray redbrn mottled buf biomicr fine crystalline hard dense micxln and micsuc in part clean to argillaceous fossils sndy tight/occasional trace intxln porosity no fluorescence no stain or cut

3424-3470 SHALE: Mot redbrn to brown gray occasional gygn firm to soft blocky earthy occasional interbed with LIMESTONE: as above

3470-3480 LIMESTONE: Mor rdbrn to gray fine crystalline hard dense argillaceous to marly sbchky in part tight no show

3480-3516 SHALE: Redbrn gray to gygn mottled brown firm blocky earthy intd with LIMESTONE: Lt to medium brown gray mottled fine crystalline sbchky in part micsuc in part very sndy clean to argillaceous poor vis porosity no show

3516-3532 LIMESTONE: Lt brown buff firm to hard fine crystalline micsuc in part predominant hard and dense fossils sbchky sndy no show interbed with SHALE: as above

3532-3574 SHALE: Brick red earthy soft to firm blocky sndy interbed with LIMESTONE: Lt to medium brown gray mottled fine crystalline sbchky in part micsuc in part very sndy clean to argillaceous poor vis porosity no show

3574-3590 LIMESTONE: Lt brown buff mottled redbrn fine crystalline hard dense argillaceous to marly fossils sndy tight no show with SHALE: as above

3590-3610 LIMESTONE: Lt brown buff light mottled redbrn to red micxln micsuc brittle clean sbchky sndy fossils intxln and occasional moldic porosity no fluorescence no stain or cut

3610-3632 SHALE: Redbrn earthy blocky silty interbed with LIMESTONE

Topeka 3620'

3632-3658 LIMESTONE: Wh buff fine crystalline sbchky clean fossils silica in part poor vis porosity no show

3658-3670 SHALE: Redbrn earthy blocky silty interbed with LIMESTONE: Wh sbchky clean tight no show

3670-3700 SHALE: Redbrn gray to gygn occasional black firm blocky carbonaceous in part with interbed LIMESTONE: Wh light brown to buff crpxln hard dense clean fossils tight no show

3700-3726 SHALE: Redbrn gray to gygn occasional black firm blocky carbonaceous in part with interbed LIMESTONE: Wh light brown to buff crpxln hard dense clean fossils tight no show

3721-3732 *LIMESTONE: Mot brown to gray biomicr fine crystalline micsuc in part clean fossils with moldic and gd vug porosity with abt dark brown live bldng oil(12% sample) dark goldbrn hydrocarbon fluorescence exc explosive cut very oolites in part with intpart porosity and even oil stain and live oil chrt nodls

Heebner 3735'

3732-3746 SHALE: Gy gygn occasional black firm earthy blocky silty carbonaceous in part LIMESTONE: Lt to medium mottled brown crpxln hard dense to trace isol vug porosity with trace oil stain and live oil speck gold hydrocarbon fluorescence gd strmg cut show in <1% sample

3746-3776 SHALE: Redbrn gray to gygn blocky earthy silty in part

Lansing 3776'

3776-3786 LIMESTONE: Lt brown tan crpxln hard dense sbchky in part clean fossils sndy in part occasional trace intercrystalline porosity with oil show(<1% sample) light mottled brown oil stain and trace live oil speck gold hydrocarbon fluorescence exc cut

3786-3804 SHALE: Redbrn gray to gygn occasional black blocky

3804-3840 LIMESTONE: Brn tan crpxln hard dense clean silica tight no show

3840-3866 SHALE: Redbrn occasional black gygn earthy in part blocky silty carbonaceous in part

3866-3884 LIMESTONE: Lt brown to gray gygn crpxln hard dense silica sbchky in part clean tight no show

3884-3900 SHALE: Redbrn occasional black gygn earthy in part blocky silty carbonaceous in part

"D"

3900-3912 *LIMESTONE: Wh buff light mottled brown crpxl to micxln sbchky in part clean fossils with trace intpart porosity trace vug and isol intxln porosity light mottled brown oil stain and trace live oil bright speck goldyel hydrocarbon fluorescence exc strmg cut tight show in 2% sample

3912-3938 SHALE: Redbrn earthy blocky soft waxy occasional gygn and firm

"E"

3938-3954 *LIMESTONE: Lt to medium mottled brown micxln micsuc sbchky in part brittle clean fossils and very oolites in part with intpart porosity occasional vug and intxln porosity light brown oil

stain and trace live oil speck gold hydrocarbon fluorescence exc strmg cut show in 5% spls

3954-3974 SHALE: Redbrn to brown gray gygn occasional black blocky pyrite in part carbonaceous in part silty interbed with LIMESTONE: Lt brown crpxln hard dense clean tight no show

3974-3984 LIMESTONE: Lt brown buff tan crpxln hard dense sbchky in part clean sndy tight no show

3984-4000 SHALE: as above with LIMESTONE: Brn crpxln hard dense silica sndy tight no show

BKC 4010'

4000-4024 SHALE: Redbrn to brown blocky silty to waxy with SHALE: Gy gygn mottled brown varic in part earthy blocky silty waxy interbed with crpxln LIMESTONE: as above

Pawnee 4118'

4024-4032 LIMESTONE: Med to dark mottled brown redbrn to orange varic in part fine crystalline hard dense argillaceous to marly in part tight no show

4032-4060 SHALE: Lt gray tan to brown redbrn green varic soft waxy amorphous in part

4060-4094 LIMESTONE: Redbrn mottled gygn tan varic in part crpxln hard dense argillaceous to marly sndy carbonaceous in part tight no fluorescence no stain or cut interbed with SHALE: Lt gray tan to brown redbrn green varic soft waxy amorphous in part

4094-4118 SHALE: Redbrn gray to green earthy blocky firm to soft calcareous fossils in part

4118-4160 LIMESTONE: Med to light mottled brown gray tan micr fine crystalline hard dense sbchky in part clean fossils sndy in part occasional vis intxln porosity no fluorescence no stain or cut

LIMESTONE: Med to light mottled brown gray tan micr fine crystalline hard dense sbchky in part clean fossils sndy in part occasional vis intxln porosity no fluorescence no stain or cut

4160-4190 SHALE: Redbrn to red gray to green medium brown green blocky firm waxy to sndy interbed with LIMESTONE: Med to light brown to gray buff fine crystalline argillaceous to marly tight no show

4190-4214 SHALE: Brick red medium gray to brnred blocky earthy waxy occasional interbed with LIMESTONE: as above

4214-4226 LIMESTONE: Wh light brown to gray mottled red to orange and varic in part crpxln hard dense clean to marly fossils tight no show

4226-4246 SHALE: Brick red medium gray to brnred blocky earthy waxy occasional interbed with LIMESTONE: Wh light brown to gray mottled red to orange and varic in part crpxln hard dense clean to marly fossils tight no show

Cherokee SS 4236'

4246-4270 Abt loose unconsl Qtz and Fldspr grains: Clr pink red vc/fine poor sorted rounded to sbrnd consl in part with clay and silica cement occasional intgran porosity no fluorescence no stain or cut

interbed with SHALE: Redbrn to brown brick red gray viol varic in part blocky waxy sndy in part

4270-4302 SHALE: Redbrn to brown brick red gray viol varic in part blocky waxy sndy in part interbed with SANDSTONE and LIMESTONE: as above no show with abt vc poor sorted sbrnd to rounded Qtz and Fldspr grains

4302-4316 Abt Chrt(70% sample): Red to orange brown tan mottled varic hard crystalline dolic in part with SHALE, trace LIMESTONE

Arbuckle 4321'

4316-4360 DOLOMITE: Lt to medium brown gray redbrn orange speck green and glauconitic in part hard to brittle micro to coarsely crystalline in part sucrosic to slightly granular hard to brittle trace intxln porosity no fluorescence no stain or cut

4360-4400 DOLOMITE: Lt to medium brown to redbrn gray to green mottled varic in part micxln sucrosic brittle clean glauconitic very sndy occasional vug and intxln porosity no fluorescence no stain or cut with CHRT: Clr translucent white red to orange occasional interbed with SHALE: Mot red to brown orange varic firm waxy hard and dolic in part occasional sndy

4400-4448 Chrt: Med brown to gray redbrn hard crystalline glauconitic and pyrite in part DOLOMITE: Med to light brown speck green light red to gray green varic micxln sucrosic brittle clean to argillaceous very glauconitic tight to fair intgran porosity vug porosity no fluorescence no stain or cut with SHALE: Mot brown to red redbrn orange varic firm blocky waxy dolic in part

4448-4458 SHALE: Med to dark redbrn m brown gray gygn redbrn varic blocky waxy very sndy in part DOLOMITE: Mot redbrn orange dark speck green salt and pepper coarse crystalline and granular in part sucrosic to granular very glauconitic brittle in part tight to exc intxln porosity vug porosity no fluorescence no stain or cut CHRT

Reagan SS 4358'

4458-4484 Unconsl Qtz and Fldspr grains(2% sample): Clr translucent white red m/vc moderately sorted rounded to sbrnd grains frosted no show trace SANDSTONE: Clr white translucent fu/clast poor sorted rounded grains silica and clay cement intgran porosity no fluorescence no stain or cut with SHALE: Dk redbrn as above very waxy

4484-4486 GW: Qtz Fldspr and Biotite(20% sample): Clr translucent red to orange yellow black gray to gray varic very coarse angular grains with SHALE: Dk redbrn to yellow green gray varic very waxy sndy in part

Granite Wash 4486'

4486-4515 GW: C angular Qtz Fldspr Biot hrbld grains varic bright red yellow orange green clear translucent dark green to gray fine/vc angular grains with SHALE: V dark redbrn yellow gray to green varic blocky very waxy

4515'4545 Abt GW: Qtz Fldspr Biot coarse angular grains with SHALE: Dk to medium redbrn to brown gray gygn maroon varic waxy

Peter Debenham

P.O. Box 350
Drake, Colorado 80515

Wellsite Geology

720/220-4860
petrolific@earthlink.net

Scale 1:240 (5"=100') Imperial

Well Name: Slawson Exploration Co., David Ketterl No. 1-30
Location: 770'FSL & 370'FEL, Sec 30, T1S, R30W, Decatur Co., Kansas
Licence Number: API: 15-193-20882 Region: CKU
Spud Date: 7/20/15 Drilling Completed: 7/27/15
Surface Coordinates: 770'FSL & 370'FEL, Sec 30, T1S, R30W, Decatur Co., Kansas

Bottom Hole Coordinates: 770'FSL & 370'FEL, Sec 30, T1S, R30W, Decatur Co., Kansas
Ground Elevation (ft): 2768' K.B. Elevation (ft): 2776'
Logged Interval (ft): 3400' To: TD Total Depth (ft): 4545'
Formation: Lansing, Kansas City, Pawnee, Cherokee, Arbuckle, Reagan SS
Type of Drilling Fluid: Chemical Gel/LSND/LCM, mud up 3500'

Printed by MUD.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: Slawson Exploration Co., Inc.
Address: 204 N. Robinson Ave., Ste 2300
Oklahoma City, OK 73102

GEOLOGIST

Name: Wellsite: Peter Debenham
Company: Petrolific Consulting Services
Address: P.O. Box 350
Drake, CO 80515
720/220-4860, Petrolific@gmail.com

DSTs

Trilobite, Engineer Robert Zodrow, DST No. 1(3656'-3740'), Oread Fm., DST No. 2(3882'-3960'), Lansing D & E

Comments

WW Drilling Rig 12, TP Calvin Pfannenstiel, Drillers Randy Scaurow, Greg Ernst, Wade Bader, Company Rep. & Geologist Chris Gough - Denver, Kansas Drilling Tech. engineer Ken Rupp, Weatherford Logs engineer Ben Weldin, P&A 7/28/15.

ROCK TYPES

	Anhy		Clyst		Gyp		Mrlst		Shgy
	Bent		Coal		Igne		Salt		Slst
	Brec		Congl		Lmst		Shale		Ss
	Cht		Dol		Meta		Shcol		Till

ACCESSORIES

FOSSIL

- Algae
- Amph
- Belm
- Bioclst
- Brach
- Bryozoa
- Cephal
- Coral
- Crin
- Echin
- Fish
- Foram
- Fossil
- Gastro
- Oolite

- Ostra
- Pelec
- Pellet
- Pisolite
- Plant
- Strom

MINERAL

- Anhy
- Arggrn
- Arg
- Bent
- Bit
- Breclrag
- Calc
- Carb

- Chtdk
- Chtlt
- Dol
- Feldspar
- Ferrpel
- Ferr
- Glau
- Gyp
- Hvymin
- Kaol
- Marl
- Minxl
- Nodule
- Phos
- Pyr
- Salt

- Sandy
- Silt
- Sil
- Sulphur
- Tuff

STRINGER

- Anhy
- Arg
- Bent
- Coal
- Dol
- Gyp
- Ls
- Mrst
- Sltstrg

- Ssstrg

TEXTURE

- Boundst
- Chalky
- Cryxln
- Earthy
- Finexln
- Grainst
- Lithogr
- Microxln
- Mudst
- Packst
- Wackest

OTHER SYMBOLS

INTERVALS

- Core
- Dst

EVENTS

- Rft
- Sidewall

POROSITY TYPE

- Earthy
- Fenest
- Fracture
- Inter
- Moldic
- Organic

- Pinpoint
- Vuggy

SORTING

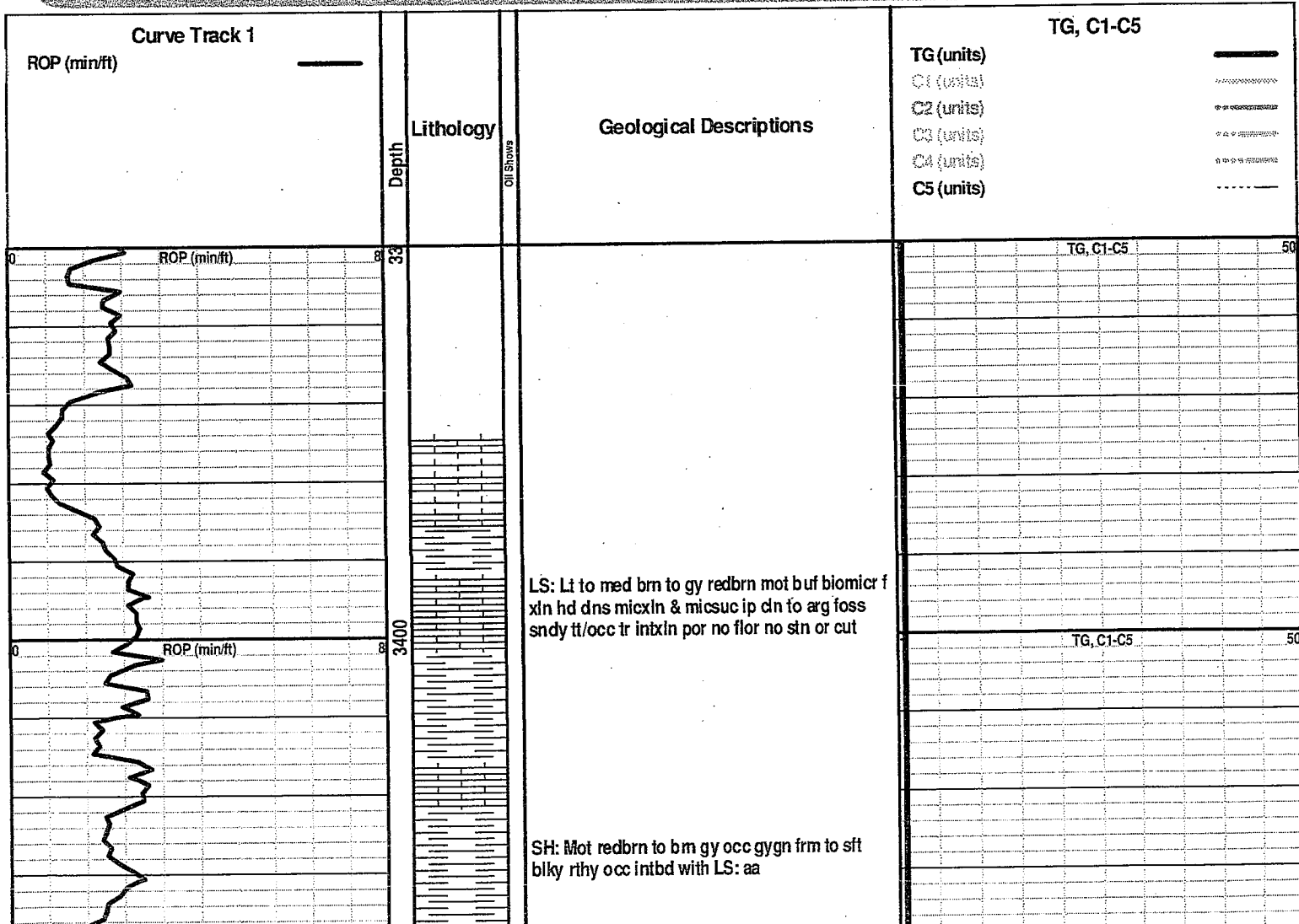
- Well
- Moderate
- Poor

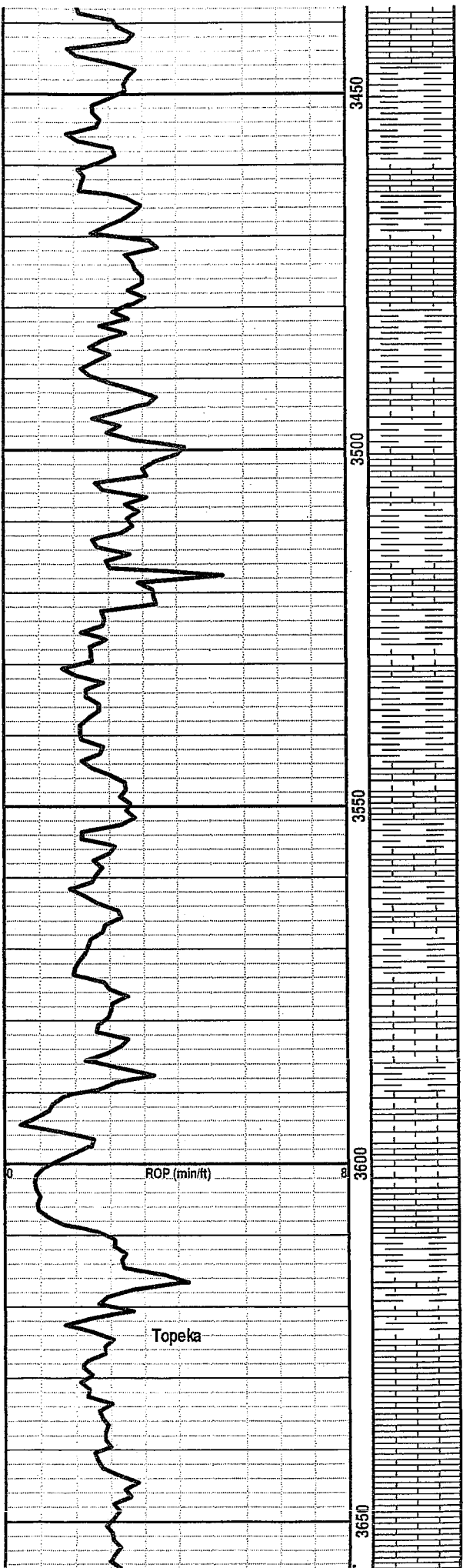
ROUNDING

- Rounded
- Subrnd
- Subang
- Angular

OIL SHOWS

- Even
- Spotted
- Ques
- Dead





LS: Mor rdbrn to gy f xln hd dns arg to mrly sbchky ip tt no show

SH: Redbrn gy to gygn mot brn frm blkly rthy intd with LS: Lt to med brn gy mot f xln sbchky ip micsuc ip v snyd cln to arg p vis por no show

LS: Lt brn bf frm to hd f xln micsuc ip pred hd & dns foss sbchky snyd no show intbd with SH: aa

SH: Brick red rthy sft to frm blkly snyd intbd with LS: Lt to med brn gy mot f xln sbchky ip micsuc ip v snyd cln to arg p vis por no show

LS: Lt brn bf mot redbrn f xln hd dns arg to mrly foss snyd tt no show with SH: aa

LS: Lt brn bf lt mot redbrn to red micxln micsuc brit cln sbchky snyd foss intxln & occ moldic por no flr no stn or cut

SH: Redbrn rthy blkly slty intbd with LS

LS: Wh bf f xln sbchky cln foss sil ip p vis por no show

DST No. 1 3656'-3740'

SH: Redbrn rthy blkly slty intbd with LS: Wh sbchky cln tt no show

SH: Redbrn gy to gygn occ blk frm blkly carb ip with intbd LS: Wh lt brn to bf crpxln hd dns cln foss tt no show

Trap Test

DST No. 1(3656'-3740'), Oread Fm.
IH 1779'
IF 16 - 57
ISI 1180
FF 60 - 87
FSI 1134
FH 1726
BHT 108 deg. F
Rec: 150' mud(100%) no show

SH: Redbrn gy to gygn occ blk frm blkly carb ip with intbd LS: Wh lt brn to bf crpxln hd dns cln foss tt no show

LS: Mot brn to gy bionmcrf xln micsuc ip cln foss with moldic & gd vug por with abt dk brn live bldng oil(12% spl) dk goldbrn hydc flor exc explosive cut v ool ip with intpart por and even o stn & live o chrt nodls

T.G.

SH: Gy gygn occ blk frm rthy blkly slty carb ip
LS: Lt to med mot brn crpxln hd dns to tr isol vug por with tr o stn & live o spec gold hydc flor exc gd strmg cut show in <1% spl

SH: Redbrn gy to gygn blkly rthy slty ip

LS: Lt brn tan crpxln hd dns sbchky ip cln foss sndy ip occ tr intxl por with o show(<1% spl) lt mot brn o stn & tr live o spec gold hydc flor exc cut

SH: Redbrn gy to gygn occ blk blkly

TG, C1-C5

50

LS: Brn tan crpxln hd dns cln sil tt no show

SH: Redbrn occ blk gygn rthy ip blkly slty carb ip

6

LS: Lt brn to gy gygn crpxln hd dns sil sbchky ip cln tt no show

3700

3750

3800

3850

ROP (min/ft)

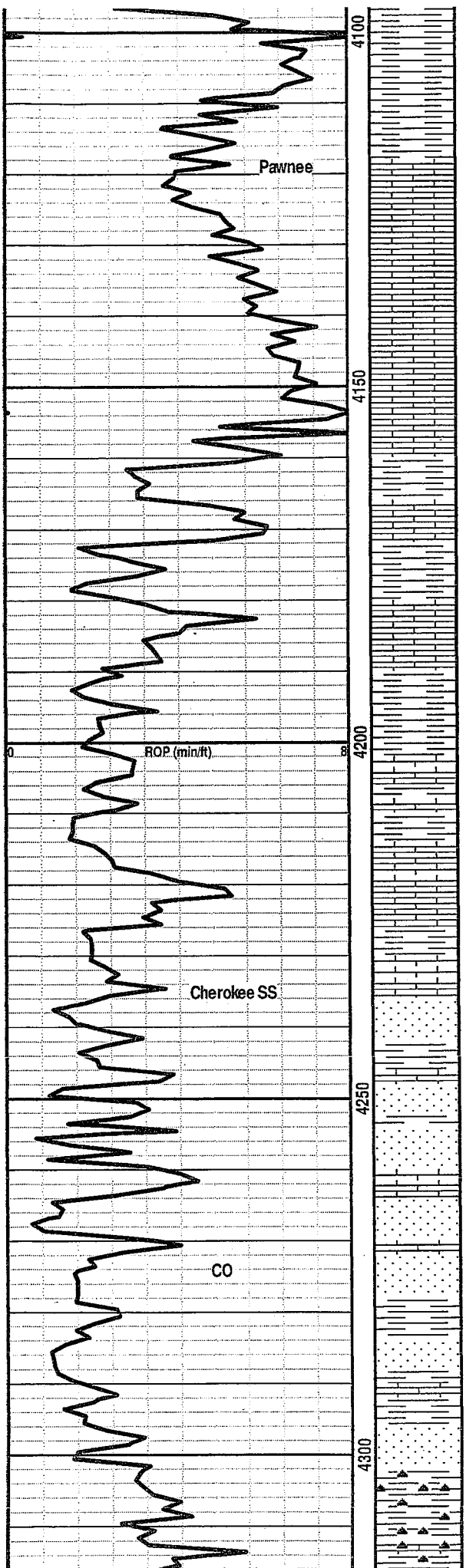
B

C

Oread

Heebner

Lansing



Sh: Redbrn to gy tan micr f xln hd dns
foss ip

LS: Med to lt mot brn gy tan micr f xln hd dns
sbchky ip cln foss sndy ip occ vis intxln por no
flor no stn or cut

LS: Med to lt mot brn gy tan micr f xln hd dns
sbchky ip cln foss sndy ip occ vis intxln por no
flor no stn or cut

SH: Redbrn to red gy to gn med brn gn blkly frm
wxy to sndy intbd with LS: Med to lt brn to gy bf
f xln arg to mrly tt no show

SH: Brick red med gy to brnred blkly rthy wxy
occ intbd with LS: aa

LS: Wh lt brn to gy mot red to orng & varic ip
crpxln hd dns cln to mrly foss tt no show

SH: Brick red med gy to brnred blkly rthy wxy
occ intbd with LS: Wh lt brn to gy mot red to
orng & varic ip crpxln hd dns cln to mrly foss tt
no show

Abt loose unconsl Qtz & Fldspr grs: Clr pnk red
vc/f p srt d sbrnd consl ip with clay & sil
cmt occ intgran por no flor no stn or cut intbd
with SH: Redbrn to brn brick red gy viol varic ip
blkly wxy sndy ip

SH: Redbrn to brn brick red gy viol varic ip blkly
wxy sndy ip intbd with SS & LS: aa no show
with abt vc p srt d sbrnd to rnd Qtz & Fldspr grs

Abt Chrt(70% spl): Red to orng brn tan mot varic
hd xln dolc ip with SH, tr LS

TG, C1-C5

50

Arbuckle

4350

4400

4450

4500

ROP (min/ft)

Reagan SS

Granite wash

DOL: Lt to med brn gy redbrn orng spec gn & glauc ip hd to brit micro to coursey xln ip suc to sl gran hd to brit tr intxln por no flor no stn or cut

DOL: Lt to med brn to redbrn gy to gn mot varic ip micxln suc brit cln glauc v sndy occ vug & intxln por no flor no stn or cut with CHRT: Clr trnsl wh red to orng occ intbd with SH: Mot red to brn orng varic frm wxy hd & dolic ip occ sndy

Chrt: Med brn to gy redbrn hd xln glauc & pyr ip
DOL: Med to lt brn spec gn lt red to gy gn varic micxln suc brit cln to arg v glauc tt to fr intgran por vug por no flor no stn or cut with SH: Mot brn to red redbrn orng varic frm blkly wxy dolic ip

SH: Med to dk redbrn m brn gy gygn redbrn varic blkly wxy v sndy ip DOL: Mot redbrn orng dk spec gn s&p c xln & granular ip suc to gran v glauc brit ip tt to exc intgxn por vug por no flor no stn or cut CHRT

Unconsl Qtz & Fldspr grs(2% spl): Clr trnsl wh red m/vc mod srt d rmd to sbrnd grs frosted no show tr SS: Clr wh trnsl fu/cl p srt d grs sil & clay cmt intgran por no flor no stn or cut with SH: Dk redbrn aa v wxy

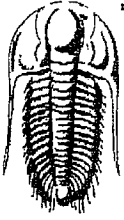
GW: Qtz Fldspr & Biotite(20% spl): Clr trnsl red to orng yel blk gy to gy varic v c ang grs with SH: Dk redbrn to yel gn gy varic v wxy sndy ip

GW: C ang Qtz Fldspr Biot hmbld grs varic bri red yel orng gn clr trnsl dk gn to gy f/vc ang grs with SH: V dk redbrn yel gy to gn varic blkly v wxy

Abt GW: Qtz Fldspr Biot c ang grs with SH: Dk to med redbrn to brn gy gygn mar varic wxy

TG, C1-C5

50



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Slaw son Exploration CO INC

30 1S 30W Decatur KS

204 N Robinson Ave STE 2300
Oklahoma City OK 73102

David Ketterl 1-30

Job Ticket: 62804

DST#: 2

ATTN: Pete Debenham

Test Start: 2015.07.25 @ 14:35:00

GENERAL INFORMATION:

Formation: LKC "D-E"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:39:30

Time Test Ended: 22:04:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Robert Zodrow

Unit No: 66

Interval: 3882.00 ft (KB) To 3960.00 ft (KB) (TVD)

Total Depth: 3960.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2774.00 ft (KB)

2766.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 6741

Inside

Press@RunDepth: 83.98 psig @ 3883.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.07.25

End Date: 2015.07.25

Last Calib.: 2015.07.25

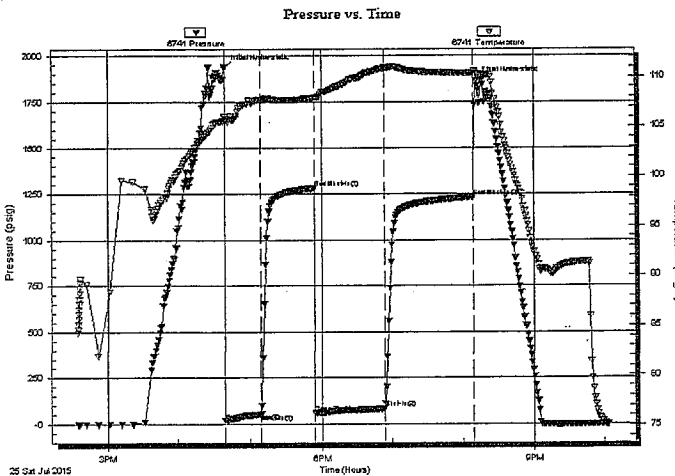
Start Time: 14:35:05

End Time: 22:03:59

Time On Btm: 2015.07.25 @ 16:39:00

Time Off Btm: 2015.07.25 @ 20:10:30

TEST COMMENT: 30-IF- Blow built to 2 1/4"
45-ISI- No return
60-FF- Blow built to 3 3/4"
75-FSI- No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1938.55	106.00	Initial Hydro-static
1	16.85	105.58	Open To Flow (1)
30	52.85	107.68	Shut-In(1)
75	1280.84	107.88	End Shut-In(1)
75	58.74	107.54	Open To Flow (2)
135	83.98	110.90	Shut-In(2)
210	1232.99	110.36	End Shut-In(2)
212	1863.51	110.31	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
150.00	WM with oil spots 30%W 70%M	1.01

* Recovery from multiple tests

Gas Rates

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

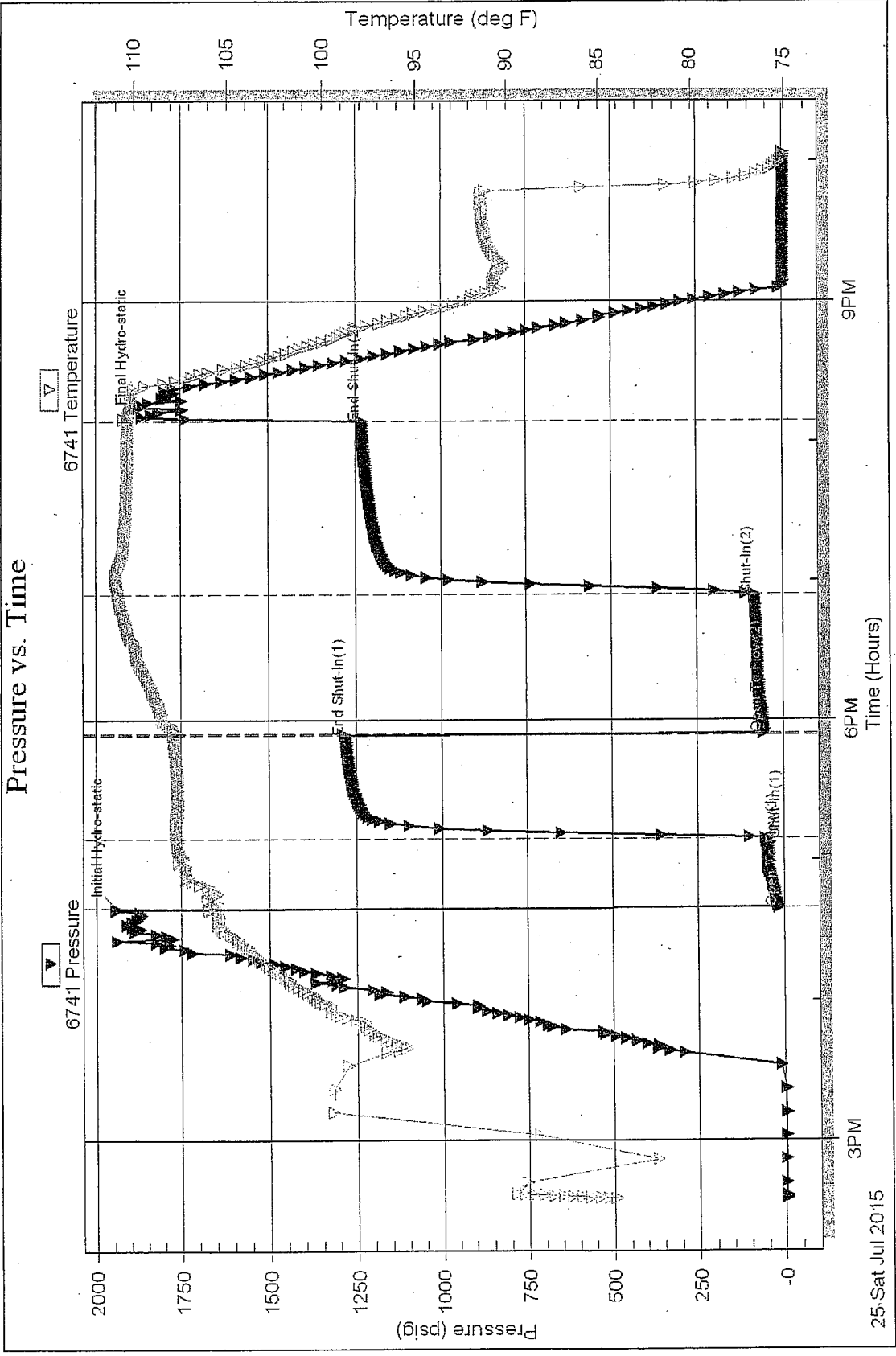
DST Test Number: 2

David Ketterl 1-30

Slawson Exploration CO INC

Inside

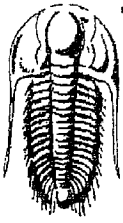
Serial #: 6741



Printed: 2015.07.25 @ 22:23:39

Ref. No: 62804

Trilobite Testing, Inc



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Slawson Exploration CO INC
 204 N Robinson Ave STE 2300
 Oklahoma City OK 73102
 ATTN: Pete Debenham

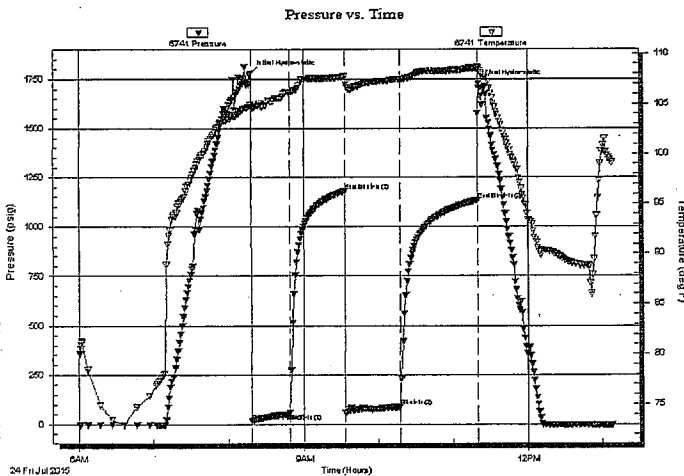
30 1S 30W Decatur KS
 David Ketterl
 Job Ticket: 62803 DST#: 1
 Test Start: 2015.07.24 @ 06:00:00

GENERAL INFORMATION:

Formation: Oread
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 08:18:00
 Time Test Ended: 13:08:00
 Interval: 3656.00 ft (KB) To 3740.00 ft (KB) (TVD)
 Total Depth: 3740.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Robert Zodrow
 Unit No: 66
 Reference Elevations: 2774.00 ft (KB)
 2766.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 6741 Inside
 Press@RunDepth: 87.52 psig @ 3657.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2015.07.24 End Date: 2015.07.24 Last Calib.: 2015.07.24
 Start Time: 06:00:00 End Time: 13:08:00 Time On Btm: 2015.07.24 @ 08:17:30
 Time Off Btm: 2015.07.24 @ 11:20:00

TEST COMMENT: 30-IF- Blow built to 3"
 45-ISI- No Return
 45-FF- Blow Built to 3"
 60-FSI- No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1779.35	104.92	Initial Hydro-static
1	15.90	104.47	Open To Flow (1)
31	57.40	106.08	Shut-In(1)
75	1180.60	107.75	End Shut-In(1)
76	60.00	107.15	Open To Flow (2)
120	87.52	107.34	Shut-In(2)
182	1134.37	108.54	End Shut-In(2)
183	1726.87	108.61	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
150.00	Mud 100% M	1.01

Gas Rates

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

Serial #: 6741

Inside

Slawson Exploration CO INC

David Ketterl

DST Test Number: 1

Pressure vs. Time

