



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1219188
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: _____

1219188

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> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	TDI
Well Name	Werth Trust 1
Doc ID	1219188

Tops

Name	Top	Datum
Anhydrite	1194'	+811'
Topeka	2963'	-958'
Heebner	3237'	-1232'
Lansing/Kansas City	3281'	-1276'
Base Kansas City	3531'	-1526'
Conglomerate Sand	3590'	-1585'
Arbuckle	3607'	-1602'
Reagan Sand	3650'	-1645'



DRILL STEM TEST REPORT

Prepared For: **TDI Inc**

1310 Bison Rd
Hays KS 67601

ATTN: Herb Deines

Werth Trust # 1

26 15s 19w Ellis,KS

Start Date: 2014.07.02 @ 11:00:00

End Date: 2014.07.02 @ 17:22:00

Job Ticket #: 59264 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.07.03 @ 07:56:16

TDI Inc
26 15s 19w Ellis,KS
Werth Trust # 1
DST # 1
LKC " A - C "
2014.07.02



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TDI Inc
1310 Bison Rd
Hays KS 67601
ATTN: Herb Deines

26 15s 19w Ellis,KS
Werth Trust # 1
Job Ticket: 59264 **DST#: 1**
Test Start: 2014.07.02 @ 11:00:00

GENERAL INFORMATION:

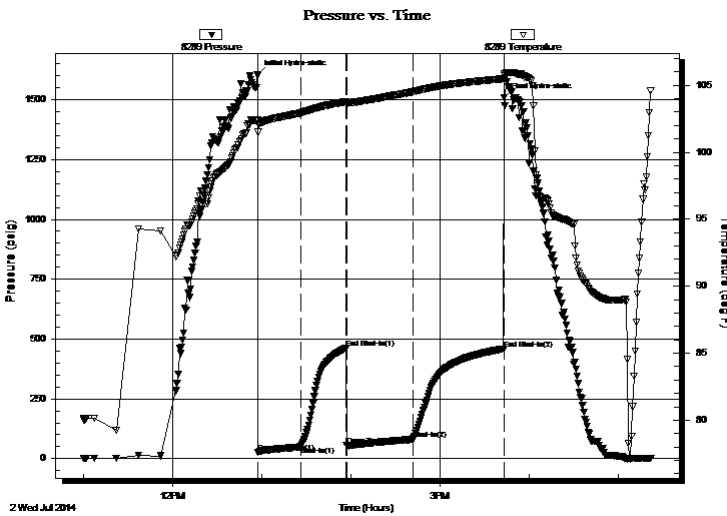
Formation: **LKC " A - C "**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 12:57:30
 Time Test Ended: 17:22:00
 Interval: **3272.00 ft (KB) To 3327.00 ft (KB) (TVD)**
 Total Depth: 3327.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Jim Svaty
 Unit No: 76
 Reference Elevations: 2005.00 ft (KB)
 1995.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 8289

Outside

Press@RunDepth: 80.77 psig @ 3289.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.07.02 End Date: 2014.07.02 Last Calib.: 2014.07.02
 Start Time: 11:00:02 End Time: 17:22:00 Time On Btm: 2014.07.02 @ 12:57:15
 Time Off Btm: 2014.07.02 @ 15:43:15

TEST COMMENT: 30-IFP- BOB in 5 min.
 30-ISIP- No Blow
 45-FFP- BOB in 1 1/2 min
 60-FSIP- Surface Blow in 1min. Building to 1 1/2". in 15 min. Died Back in 32 min.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1604.70	102.41	Initial Hydro-static
1	25.48	101.49	Open To Flow (1)
30	50.29	102.95	Shut-In(1)
60	460.83	103.77	End Shut-In(1)
60	55.00	103.66	Open To Flow (2)
105	80.77	104.51	Shut-In(2)
166	458.90	105.49	End Shut-In(2)
166	1508.96	105.85	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	Gassy OCM 10%o 20%g 70%m	0.87
90.00	Gassy CO 50%g 50%o	1.26
0.00	GIP 1084	0.00

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

TDI Inc
 1310 Bison Rd
 Hays KS 67601
 ATTN: Herb Deines

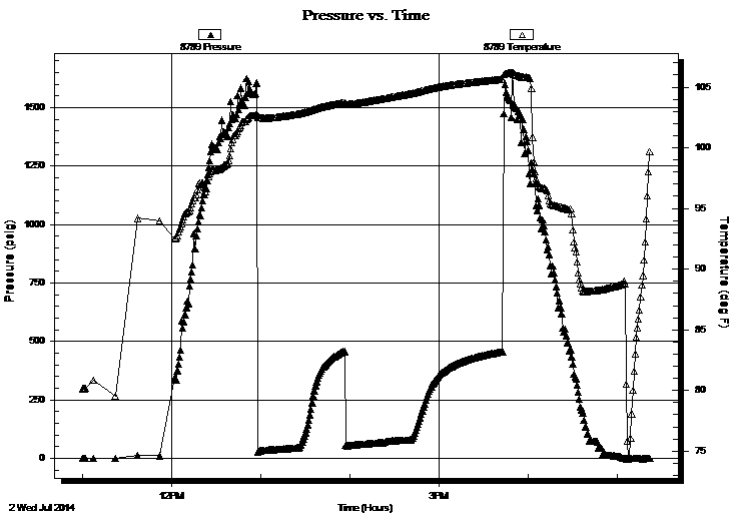
26 15s 19w Ellis,KS
Werth Trust # 1
 Job Ticket: 59264 **DST#: 1**
 Test Start: 2014.07.02 @ 11:00:00

GENERAL INFORMATION:

Formation: **LKC " A - C "**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 12:57:30
 Time Test Ended: 17:22:00
 Interval: **3272.00 ft (KB) To 3327.00 ft (KB) (TVD)**
 Total Depth: 3327.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Jim Svaty
 Unit No: 76
 Reference Elevations: 2005.00 ft (KB)
 1995.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 8789 Inside
 Press@RunDepth: psig @ 3289.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.07.02 End Date: 2014.07.02 Last Calib.: 2014.07.02
 Start Time: 11:00:02 End Time: 17:21:45 Time On Btm:
 Time Off Btm:

TEST COMMENT: 30-IFP- BOB in 5 min.
 30-ISIP- No Blow
 45-FFP- BOB in 1 1/2 min
 60-FSIP- Surface Blow in 1min. Building to 1 1/2". in 15 min. Died Back in 32 min.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
62.00	Gassy OCM 10%o 20%g 70%m	0.87
90.00	Gassy CO 50%g 50%o	1.26
0.00	GIP 1084	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

TDI Inc
1310 Bison Rd
Hays KS 67601
ATTN: Herb Deines

26 15s 19w Ellis,KS
Werth Trust # 1
Job Ticket: 59264 **DST#: 1**
Test Start: 2014.07.02 @ 11:00:00

Tool Information

Drill Pipe:	Length: 3277.00 ft	Diameter: 3.80 inches	Volume: 45.97 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	44000.00 lb
			<u>Total Volume: 45.97 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial	40000.00 lb
Depth to Top Packer:	3272.00 ft			Final	41000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	55.00 ft				
Tool Length:	76.00 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			3252.00	
Shut In Tool	5.00			3257.00	
Hydraulic tool	5.00			3262.00	
Packer	5.00			3267.00	21.00 Bottom Of Top Packer
Packer	5.00			3272.00	
Stubb	1.00			3273.00	
Perforations	15.00			3288.00	
Change Over Sub	1.00			3289.00	
Recorder	0.00	8789	Inside	3289.00	
Recorder	0.00	8289	Outside	3289.00	
Blank Spacing	31.00			3320.00	
Change Over Sub	1.00			3321.00	
Perforations	3.00			3324.00	
Bullnose	3.00			3327.00	55.00 Bottom Packers & Anchor

Total Tool Length: 76.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

TDI Inc **26 15s 19w Ellis,KS**
 1310 Bison Rd **Werth Trust # 1**
 Hays KS 67601 Job Ticket: 59264 **DST#: 1**
 ATTN: Herb Deines Test Start: 2014.07.02 @ 11:00:00

Mud and Cushion Information

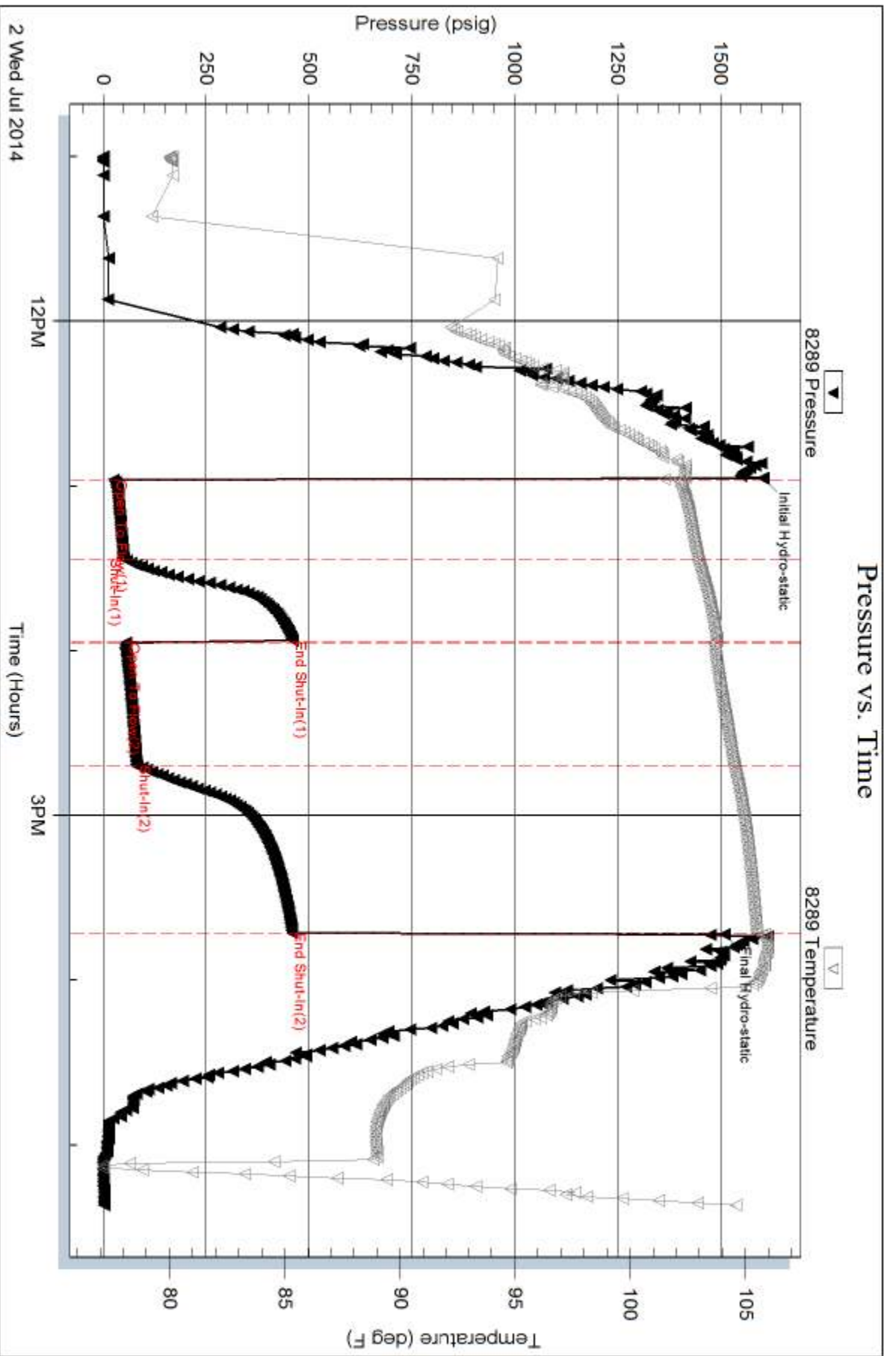
Mud Type: Gel Chem	Cushion Type:	Oil API: 34 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 60.00 sec/qt	Cushion Volume: bbl	
Water Loss: 13.97 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 14000.00 ppm		
Filter Cake: 1.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	Gassy OCM 10%o 20%g 70%m	0.870
90.00	Gassy CO 50%g 50%o	1.262
0.00	GIP 1084	0.000

Total Length: 152.00 ft Total Volume: 2.132 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:



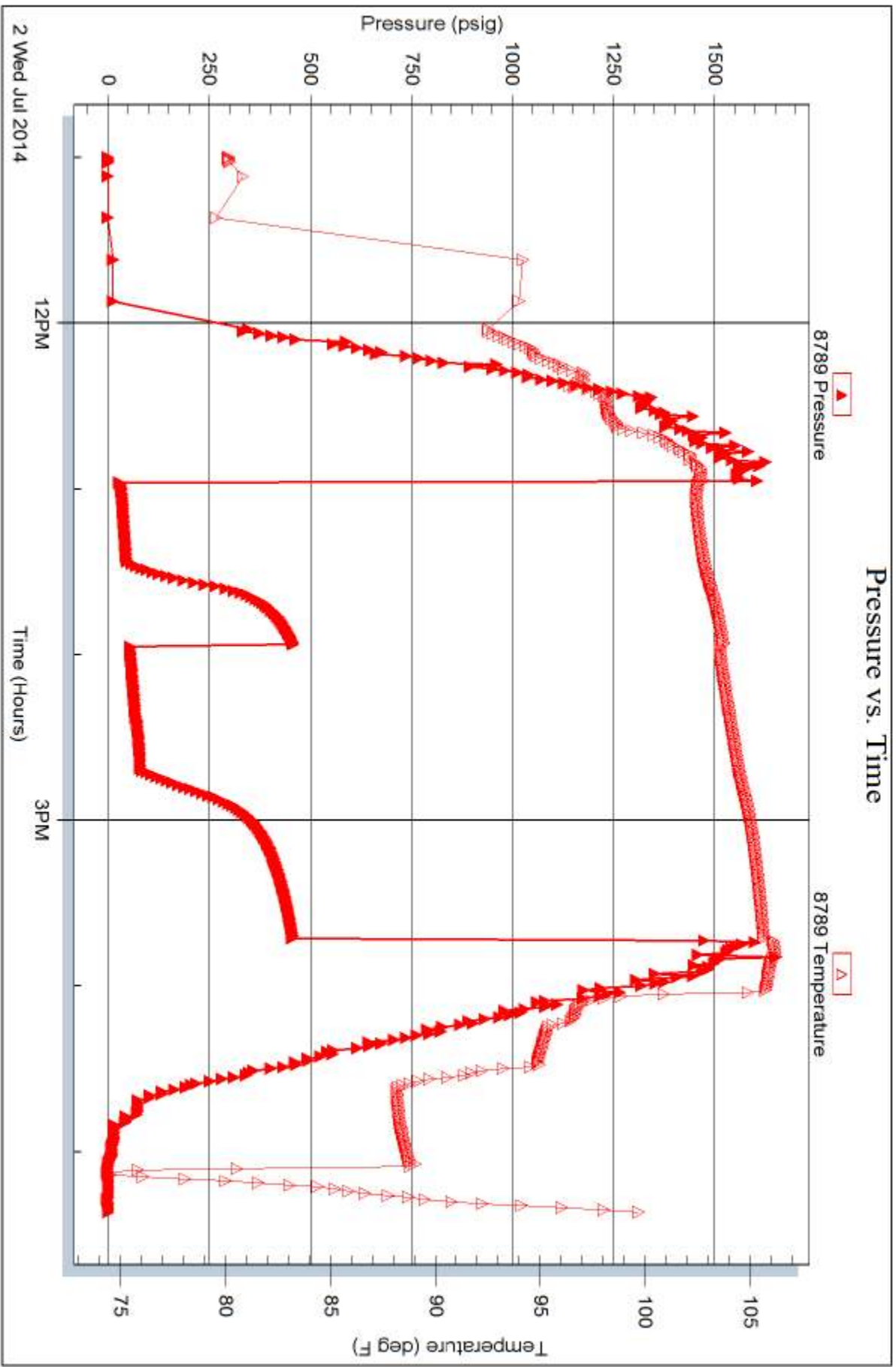
Serial #: 8789

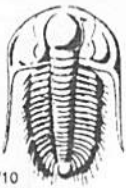
Inside

TDI Inc

Werth Trust # 1

DST Test Number: 1





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 59264

4/10

Well Name & No. Worth Trust #1 Test No. 1 Date 7-2-14
 Company TDI INC. Elevation 2005 KB 1995 GL
 Address 1310 Bison Rd Hays KS 67601
 Co. Rep / Geo. Herb Deines Rig Southwind #1
 Location: Sec. 26 Twp. 15S Rge. 19W Co. Ellis State KS

Interval Tested 3272-3327 Zone Tested LKE "A-C"
 Anchor Length 55 Drill Pipe Run 3277 Mud Wt. 8.9
 Top Packer Depth 3267 Drill Collars Run 0 Vis 60
 Bottom Packer Depth 3272 Wt. Pipe Run 0 WL 14
 Total Depth 3327 Chlorides 14000 ppm System LCM 1

Blow Description IIFP - BOB in 5min
ISIP - No Blow
FFP - BOB in 1/2 min.
FSTIP - Surface Blow in 1min Building to 1/2 in. in 15min. Die Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>62</u>	<u>Gassy OCM</u>	<u>20</u>	<u>10</u>	<u>70</u>	<u>33 min</u>
<u>90</u>	<u>Gassy CO</u>	<u>50</u>	<u>50</u>		
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 152 BHT 105 Gravity 34 API RW @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1604 Test 1150 T-On Location 9:40
 (B) First Initial Flow 25 Jars T-Started 11:00
 (C) First Final Flow 50 Safety Joint T-Open 12:57
 (D) Initial Shut-In 460 Circ Sub T-Pulled 15:42
 (E) Second Initial Flow 55 Hourly Standby T-Out 17:22
 (F) Second Final Flow 80 Mileage 36 RT 55.80 Comments _____
 (G) Final Shut-In 458 Sampler _____
 (H) Final Hydrostatic 1508 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open 30 Extra Recorder _____ Sub Total 0
 Initial Shut-In 30 Day Standby _____ Total 1205.80
 Final Flow 45 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 60 Sub Total 1205.80

Approved By _____ Our Representative [Signature]
 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.

OPERATOR

Company: TDI, INC.
 Address: 1310 BISON ROAD
 HAYS, KANSAS 67601

Contact Geologist: TOM DENNING
 Contact Phone Nbr: 785-628-2593
 Well Name: WERTH TRUST # 1
 Location: NE NE SW SW Sec-26-T15S-R19W
 API: 15-051-26,706-00-00
 Pool:
 State: KANSAS

Field: ZIMM
 Country: USA



Scale 1:240 Imperial

Well Name: WERTH TRUST # 1
 Surface Location: NE NE SW SW Sec-26-T15S-R19W
 Bottom Location:
 API: 15-051-26,706-00-00
 License Number: 4787
 Spud Date: 6/27/2014 Time: 3:00 PM
 Region: ELLIS COUNTY
 Drilling Completed: 7/3/2014 Time: 11:52 AM
 Surface Coordinates: 1225' FSL & 1190' FWL
 Bottom Hole Coordinates:
 Ground Elevation: 1995.00ft
 K.B. Elevation: 2005.00ft
 Logged Interval: 2500.00ft To: 3700.00ft
 Total Depth: 3700.00ft
 Formation: LANSING-KANSAS CITY
 Drilling Fluid Type: CHEMICAL/FRESH WATER GEL

SURFACE CO-ORDINATES

Well Type: Vertical
 Longitude: -99.4082129
 Latitude: 38.7146518
 N/S Co-ord: 1225' FSL
 E/W Co-ord: 1190' FWL

LOGGED BY

Company: SOLUTIONS CONSULTING, INC.
 Address: 108 WEST 35TH STREET
 HAYS, KANSAS 67601

Phone Nbr: 785-625-3380
 Logged By: GEOLOGIST Name: HERB DEINES

CONTRACTOR

Contractor: SOUTHWIND DRILLING, INC.
 Rig #: 1
 Rig Type: MUD ROTARY
 Spud Date: 6/27/2014 Time: 3:00 PM
 TD Date: 7/3/2014 Time: 11:52 AM

ELEVATIONS

K.B. Elevation: 2005.00ft
 K.B. to Ground: 10.00ft

Ground Elevation: 1995.00ft

NOTES

RECOMMENDATION TO RUN PRODUCTION CASING BASED ON FAVORABLE DST RESULTS AND LOG ANALYSIS

OPEN HOLE LOGGING BY PIONEER ENERGY SERVICES: DUAL INDUCTION LOG, DUAL COMPENSATED POROSITY LOG, MICRORESISTIVITY LOG

DRILL STEM TESTING BY TRILOBITE TESTING INC: ONE (1) CONVENTIONAL TEST

FORMATION TOPS COMPARISON

	WERTH TRUST # 1 NE NE SW SW SEC.26-T15S-R19W 1995'GL 2005'KB	WERTH B-1 SE SW SW SEC.26-T15S-R19W KB 2018'	WERTH B-2 SW NW SW SEC.26-15S-19W KB 2000'
<u>FORMATION</u>	<u>LOG TOPS</u>	<u>LOG TOPS</u>	<u>LOG TOPS</u>
Anhydrite	1194 +811	+ 805	+819
B-Anhydrite	1230 +775	+ 772	
Topeka	2963 -958	- 956	
Heebner Sh.	3237-1232	-1235	-1236
Toronto	3256-1251	-1254	-1254
LKC	3281-1276	-1282	-1287
BKC	3531-1526	-1528	-1529
Marmaton	3568-1563	-1566	
Conglomerate Sd	3590-1585	-1592	-1591
Arbuckle	3607-1602	-1600	-1607
Reagan Sand	3650-1645	-1661	NR
RTD	3700-1695	-1709	-1612

SUMMARY OF DAILY ACTIVITY

6-27-14 RU, Spud 4:30 PM,
 6-28-14 880', set 8 5/8" surface casing to 1203' w/ 375sxs SMD, slope 3/4 degree, plug down 10:15 PM, WOC 12 Hours
 6-29-14 1205', drill plug at 10:15 AM
 6-30-14 1930', drilling
 7-01-14 2745', displaced 2827'-2850'
 7-02-14 3300', CFS 3280', short trip, CFS 3327, DST # 1 3272' to 3327', A-C
 LKC TIWB, drilling

7-03-14 LKC, TIWB, drilling 3548', RTD 3700' @11:52AM, mini trip, TOWB, logs, TIWB, LDDP
 7-04-14 3700', run production casing and cement, RD

DST # 1 TEST SUMMARY


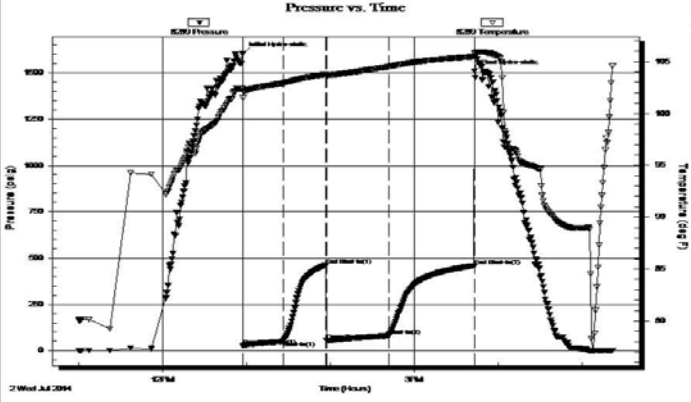








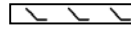




	DRILL STEM TEST REPORT																							
	TDI Inc 1310 Bison Rd Hays KS 67601 ATTN: Herb Deines	26 15s 19w Ellis Werth Trust # 1 Job Ticket: 59264 DST#: 1 Test Start: 2014.07.02 @ 11:00:00																						
GENERAL INFORMATION:																								
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Press@RunDepth: 80.77 psig @ 3289.00 ft (KB)		Capacity: 8000.00 psig																						
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	PRESSURE SUMMARY																							
Recovery																								
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:15%;">Length (ft)</th> <th style="width:60%;">Description</th> <th style="width:25%;">Volume (bbt)</th> </tr> </thead> <tbody> <tr> <td>62.00</td> <td>Gassy OCM 10%o 20%g 70%m</td> <td>0.87</td> </tr> <tr> <td>90.00</td> <td>Gassy CO 50%g 50%o</td> <td>1.26</td> </tr> <tr> <td>0.00</td> <td>GIP 1084</td> <td>0.00</td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>				Length (ft)	Description	Volume (bbt)	62.00	Gassy OCM 10%o 20%g 70%m	0.87	90.00	Gassy CO 50%g 50%o	1.26	0.00	GIP 1084	0.00									
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0.00	GIP 1084	0.00																						
Gas Rates																								
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:33%;"></th> <th style="width:17%;">Choke (inches)</th> <th style="width:17%;">Pressure (psig)</th> <th style="width:33%;">Gas Rate (Mcf/d)</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>					Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)																	
	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)																					

Image Header 03

Image Header 04

Image Header 05

ROCK TYPES

 Clystgy	 Lmst fw<7	 shale, gry	 Ss	 CglSandy
 Clystcol	 Lmst fw>7	 Carbon Sh	 Dol Lime	
 Dolprim	 shale, grn	 shale, red	 Lscongl	

ACCESSORIES

MINERAL

- ▲ Chert, dark
- ∩ Glauconite
- P Pyrite
- Sandy
- Varicolored chert

FOSSIL

- ⊙ Oolite
- ⊙ Oomoldic

OTHER SYMBOLS

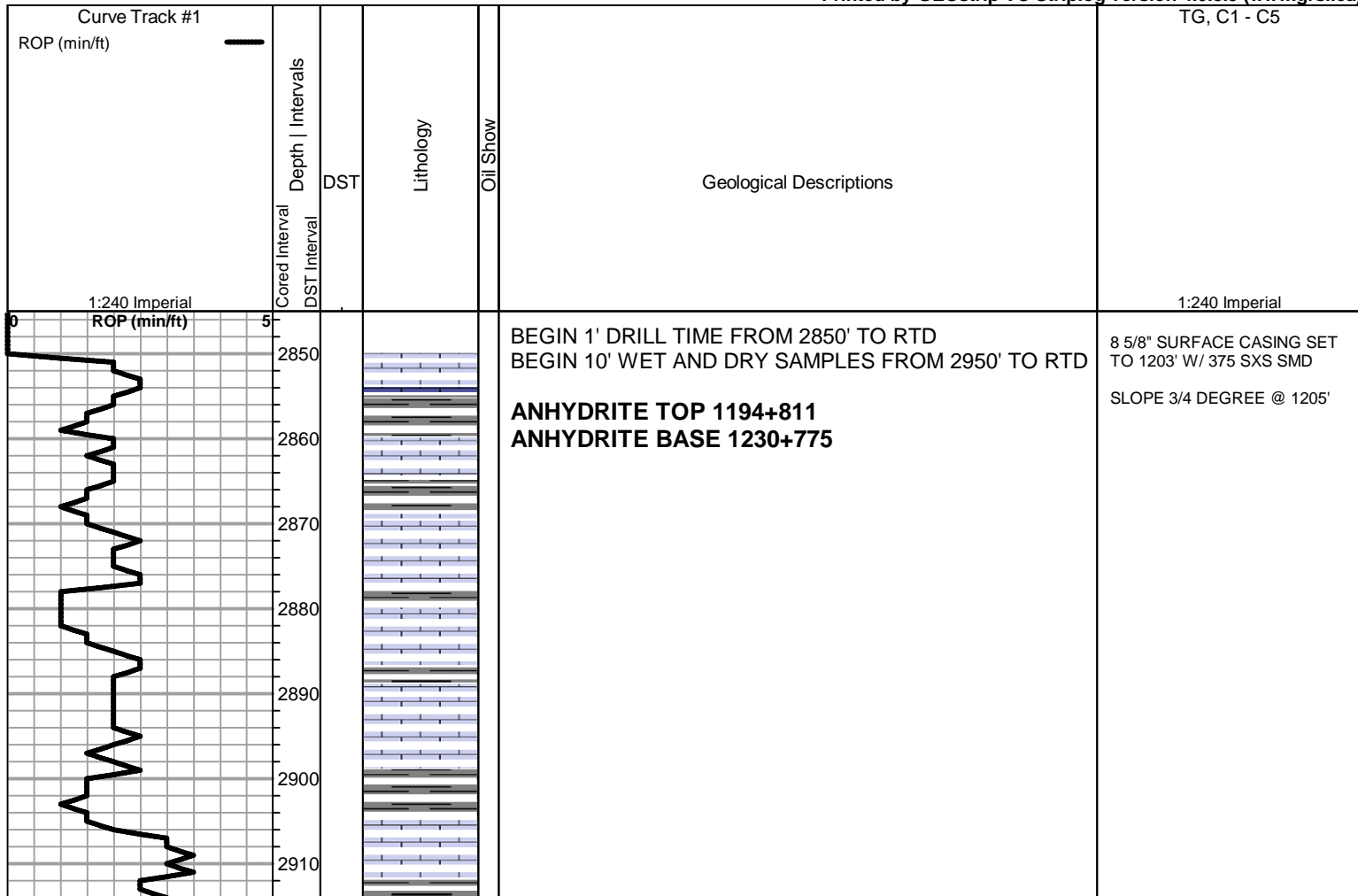
Oil Show

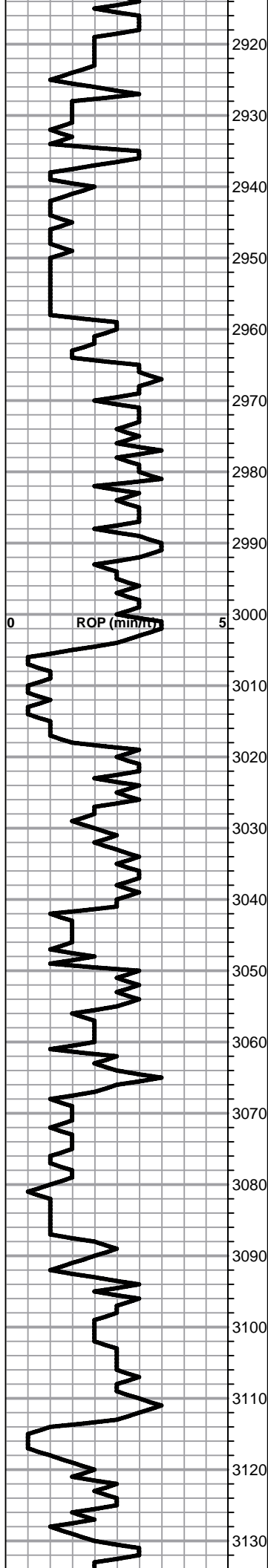
- Good Show
- Fair Show
- Poor Show
- Spotted or Trace
- Questionable Stn
- D Dead Oil Stn
- Fluorescence
- * Gas

DST

- DST Int
- DST alt
- Core
- tail pipe

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Shale, med gray, soft blocky

Lime, lt-med brn, fnxln, slightly fossiliferous

Shale, lt gray, soft mud to soft blocky

Lime, med-dark brn, fnxln

TOPEKA SPL 2964-959

Lime, crm-lt brn, fnxln

Lime, med brn-med grayish brn, fnxln, slightly fossiliferous

Lime, lt brn-lt gray, fnxln, sticky chalk clumps in part

Lime, lt-med brn, fnxln, slight chalk and scattered crinoid segments

Lime, lt brn, fnxln-granular, scattered to saturated dark stain in fn interxn porosity, NFO, No Odor

Lime, lt brn-lt gray, fnxln, slightly fossiliferous

Shale, med gray, soft blocky
Lime, lt-med brn-med grayish brn, fnxln

Lime, lt-med brn, fnxln-granular, slight bedded chalk

Lime,lt-med brn, fnxln, slight bedded chalk

Lime, lt-med brn, fnxln-granular, slight chalky matrix in part

Lime, lt-med brn, fnxln-granular, chalky matrix with bedded chalk

Lime, lt-med brn, granular, slight bedded chalk

Shale, black carbonaceous ,blocky

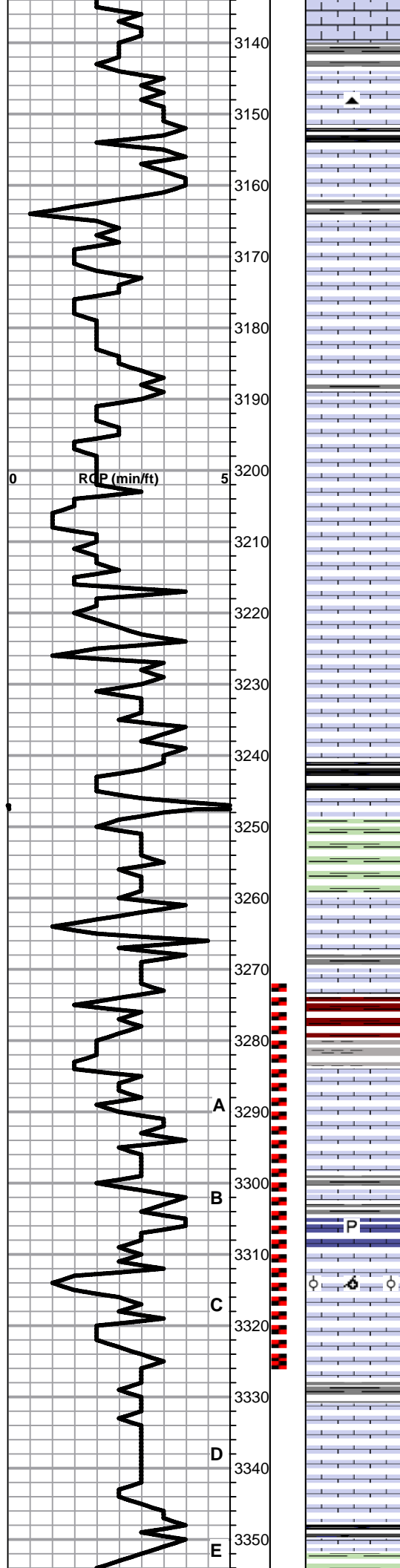
Lime, lt-reddish brn, fnxln

Lime, lt brn, fn-vfxln, slight bedded chalk, thin fossil beds

Lime, tan, micro oolitic/oomoldic, show of hvy spot specks, No Odor, scattered stain

Lime, tan-lt brn, fnxln

Lime, lt-med brn, fnxln-granular, slightly fossiliferous



Shale, med gray, soft blocky
 Lime, lt brn, fnxln, slightly fossiliferous-fusulinids

Shale, black carbonaceous, fissile, blocky

Lime, lt-med brn, fn-micro xln, slightly fossiliferous

Lime, crm-tan, granular, F-G odor, scattered lt staining, NFO, fair wet cut

Lime, tan-lt brn, fnxln-granular, increasing bedded chalk

Lime, tan-lt brn, fn-vfxln

Lime, tan-lt brn, fnxln-granular, increasing bedded chalk

Lime, lt brn, fnxln, slight bedded chalk

Lime, lt brn, fnxln, slight bedded chalk

Lime, lt brn,, fnxln, slight bedded chalk

Lime, lt brn, fnxln, increasing bedded chalk

HEEBNER SHALE SPL 3241-1236
 Shale, black carbonaceous, fissile, blocky
 Lime, med brn, fn-micro xln

Shale, lime, green, soft blocky to sticky in part

TORONTO SPL 3260-1255
 Lime, crm-tan-lt brn, fn-vfxln, bedded chalk, two chips with spotty staining, NFO, No Odor

Lime, crm-lt brn, fn-vfxln

Shale, reddish brn, soft, sticky with lt red wash

LKC SPL 3284-1279
 Lime, lt brn, fnxln with fossil fragments, zone of oolitic with fine inter xln fill, interxln porosity, scattered to saturated stain, lt odor, NFO

Lime, med brn, fnxln, NS

Lime, med brn, fnxln with specks of gray mottling, pyritic

Lime, oolitic/oomoldic, scattered-saturated fresh oil staining, good odor, NFO

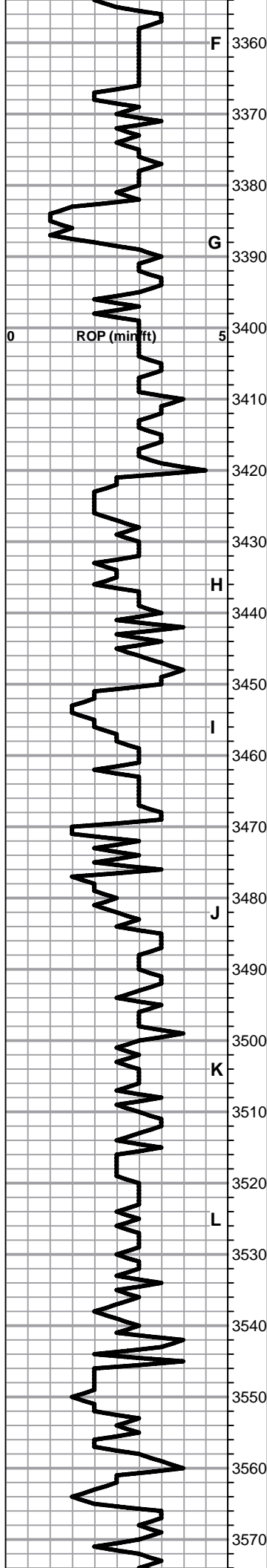
Lime, tan-lt brn, fnxln

Shale, med grayish green, soft-firm
 Lime, offwhite-crm, fn-vfxln

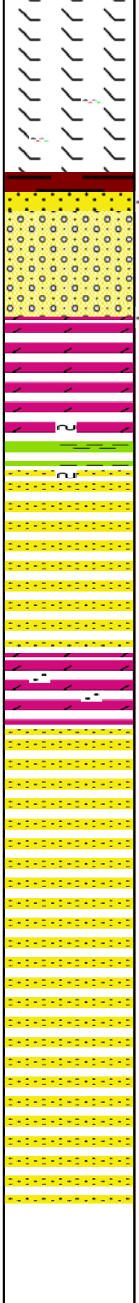
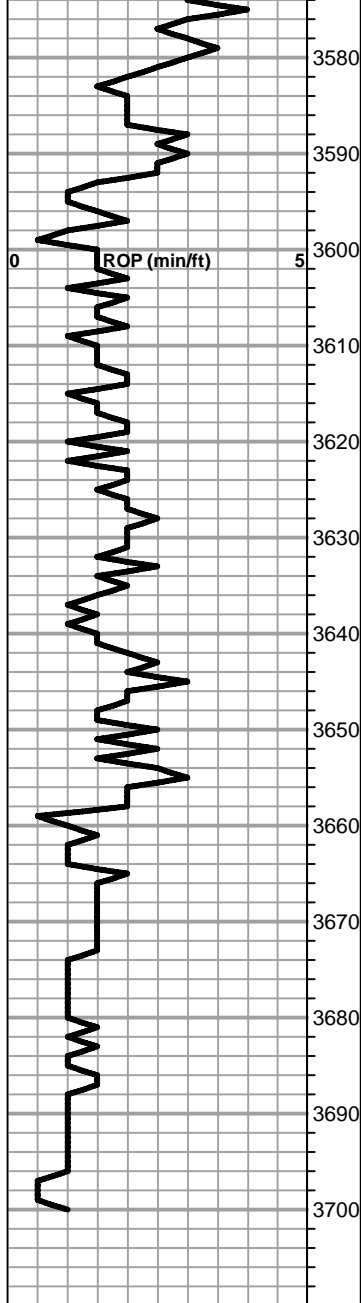
Lime, offwhite-lt brn, vfxln

Shale, black carbonaceous, blocky
 Lime, lt gray, fn-vfxln

DST # 1 3272' TO 3327' SEE
 HEADER FOR TEST SUMMARY



- 3360 F Lime, tan, fnxln, scattered fossil casts with staining, NFO, No Odor, appears poorly developed
- 3370 Lime, crm, fn-vfxln, slight bedded chalk, NS
- 3380 Lime, crm-lt brn, fn-vfxln, slight bedded chalk
- 3390 G Lime, crm-lt brn, fn-vfxln grading into oomoldic zone, barren, NS
- 3400 Lime, white-crm-lt brn, fn-vfxln to micro xln in part
- 3410 Lime, lt brn, fn-micro xln, thin zone of dark gray lime, hard on crush
- 3420 Lime, tan-lt med brn, fn-vfxln, slightly fossiliferous
- 3430 Lime, med-dark brn, fn-vfxln
- 3440 H Shale, reddish brn-med gray, soft to firm blocky
- 3450 Lime, lt-med brn, fine inter xln porosity with ppt vugs, scattered spotty stain, NFO, No Odor, appears poorly developed.
- 3460 Lime, lt brn, fn-vfxln
- 3470 Lime, crm-lt brn, fn-vfxln
- 3480 I Lime, crm-tan, fnxln-granular, few spots of lt staining, NFO, No Odor
- 3490 Lime, crm-lt brn, fn-vfxln
- 3500 J Lime, crm, fn-micro xln, slight bedded chalk, NS
- 3510 Lime, crm-tan-lt brn, fn-vfxln, slight chalk
- 3520 K Shale, dark gray-black carbonaceous, soft blocky
- 3530 Lime, crm-lt brn, fn-vfxln, NS
- 3540 Lime, crm-lt brn, fn-micro xln, slight bedded chalk
- 3550 Lime, lt brn, micro xln
- 3560 L Lime, crm, micro xln
- BKC SPL 3534-1529**
- Shale, reddish brn, soft blocky
- Lime, offwhite-crm, fnxln
- Shale, soft with lt red wash
- Lime, crm-lt gray, fn-vfxln, some clastic lime in part
- Shale, dark brn, soft blocky
- MARMATON 3565-1560**
- Lime, crm, fn-vfxln, slightly dolomitic, orange chert fragments



Lime, crm-lt brn, fnxln-hard granular, fine interxln, dolomitic NS

Lime, tan, fn-vfxln-granular in part, dolomitic, tan chert, fresh, sharp

Shale, dark brn, firm blocky
Few quartz sandstone clusters, very lt odor, NFO

ARBUCKLE ELog 3607-1602

Dolomite, tan, granular, sucrosic, lt odor and very lt saturated staining, NFO

Dolomite, tan-lt brn, granular, glauconite specks in part

Shale, lt green, soft blocky, waxy
Dolomite, tan, granular, quartz grain inclusions with firm sandstone clusters amd fused quartz.

Dolomite and sandstone as above

Dolomite, crm-lt brn, granular, sandy quartz inclusions

REAGAN SAND ELog 3650-1645

Sandstone, quartz, very fine gained, lt green-lt pink to white staining grading into friable, quartz sandstone

Sandstone, fine-coarse grained, friable, no clusters

Sandstone, as above

Sandstone, as above

RTD 3700-1695 LTD 3699-1694

SLOPE 1 DEGREE @3700'

JOB LOG

SWIFT Services, Inc.

DATE 7-4-14 PAGE NO. 1

CUSTOMER TDI WELL NO. LEASE Worth Trust JOB TYPE Cmt Longstring TICKET NO. 25508

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		TD-3700' DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0215							ON location - Rig LD D.C
	0330							Start 5 1/2" - 14#/ft casing to 3691'
								Insert Float Shoe w/ fill-up
								L.D. Battle @ 3649' - 55-42' - 89'
								Cmt, 1-3-5-7-8-9-11-13
								Cement Baskets Fin end 2 to 14
								Drop fill-up ball - 5 Its out
	0500							Fin run casing - TAG & Log St. Down
	0515							Start circ of Rotate Casing
	0600							0600 - Start D500 Mual (Rig)
	0615							Fin circ
			8 1/2					Plug RH - 30 SKS w/ MH - 15 SKS cmt
		5	12				300	Start 500 gal Mual Plug
		5	30				200	Start 18881 KCL Flush
								Fin Flushes - cut line on Rig tanks.
		4 1/2					200	Change to Swift Hose
								Start 130 SKS FH-2 - cmt
								Use Fin cmt.
								Wash out Pump & Lines
								Drop L.D. Plug
		9					300	Start Displ
		9	65				450	Cement Plug lift
		7 1/2					800	slow rate
	0715						1500	Plug Down - Hold & Release & Hold
							0	Test circ press 1000#
								Wash up & Pack up Tools
	0745							Job Complete
								<i>[Signature]</i> L. Dan, Tom & Jared