

OPERATOR

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

Contact Geologist: TOM DENNING
 Contact Phone Nbr: 785-259-3141
 Well Name: SCOTT # 2
 Location: W2 NE NW NW SEC.10-15s-19w API: 15-051-26,348-00-00
 Pool: INFIELD Field: REICHERT
 State: KANSAS Country: USA



TDI, Inc.
 1310 BISON ROAD
 HAYS, KANSAS 67601
 (785) 628-2593

Scale 1:240 Imperial

Well Name: SCOTT # 2
 Surface Location: W2 NE NW NW SEC.10-15s-19w
 Bottom Location:
 API: 15-051-26,348-00-00
 License Number: 4787
 Spud Date: 8/22/2012 Time: 9:45 PM
 Region: ELLIS COUNTY
 Drilling Completed: 8/29/2012 Time: 3:51 PM
 Surface Coordinates: 330' FNL & 905' FWL
 Bottom Hole Coordinates:
 Ground Elevation: 2041.00ft
 K.B. Elevation: 2048.00ft
 Logged Interval: 2900.00ft To: 3750.00ft
 Total Depth: 3750.00ft
 Formation: LANSING-KANSAS CITY
 Drilling Fluid Type: CHEMICAL/FRESH WATER GEL

SURFACE CO-ORDINATES

Well Type: Vertical
 Longitude: Latitude:
 N/S Co-ord: 330' FNL
 E/W Co-ord: 905' FWL

LOGGED BY

Company: SOLUTIONS CONSULTING
 Address: 108 W 35TH
 HAYS, KS 67601
 Phone Nbr: (785) 639-1337
 Logged By: Geologist Name: HERB DEINES

CONTRACTOR

Contractor: SOUTHWIND DRILLING INC.
 Rig #: 4
 Rig Type: MUD ROTARY
 Spud Date: 8/22/2012 Time: 9:45 PM
 TD Date: 8/29/2012 Time: 3:51 PM
 Rig Release: 8/30/2012 Time: 9:00 AM

ELEVATIONS

K.B. Elevation: 2048.00ft Ground Elevation: 2041.00ft
 K.B. to Ground: 7.00ft

NOTES

RECOMMENDATION TO PLUG AND ABANDON WELL BASED ON NEGATIVE RESULTS OF DSTS AND LACK OF CONGLOMERATE SAND DEVELOPEMENT HIGH ENOUGH TO BE PRODUCTIVE.

PIONEER ENERGY SERVICES LOGGED WELL: DUAL INDUCTION LOG, DUAL COMPENSATED POROSITY LOG AND MICRORESISTIVITY LOG

DRILL STEM TESTING: TRILOBITE TESTING, INC. TWO TESTS

FORMATION TOPS SUMMARY AND CHRONOLOGY OF DAILY DEPTH AND ACTIVITY

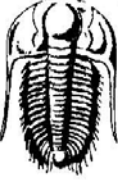
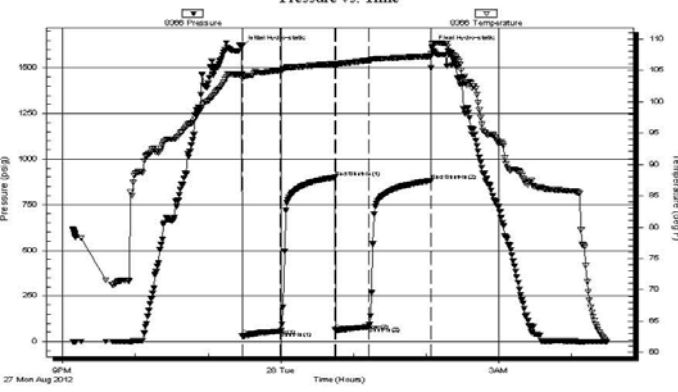
SCOTT # 2
330' FNL & 905' FWL, NW/4
Sec.10-15s-19w
 2041' GL 2048' KB

<u>FORMATION</u>	<u>SAMPLE TOPS</u>	<u>LOG TOPS</u>
Anhydrite		1289+ 759
B-Anhydrite	1315+ 733	1313+ 735
Topeka	3031- 983	3026- 978
Heebner Shale	3303-1255	3302-1254
Toronto	3325-1277	3322-1274
LKC	3348-1300	3346-1298
BKC	3589-1541	3592-1544
Conglomerate Sand	3668-1620	3666-1618
Arbuckle	3673-1625	3682-1634
RTD	3750-1702	
LTD		3750-1702

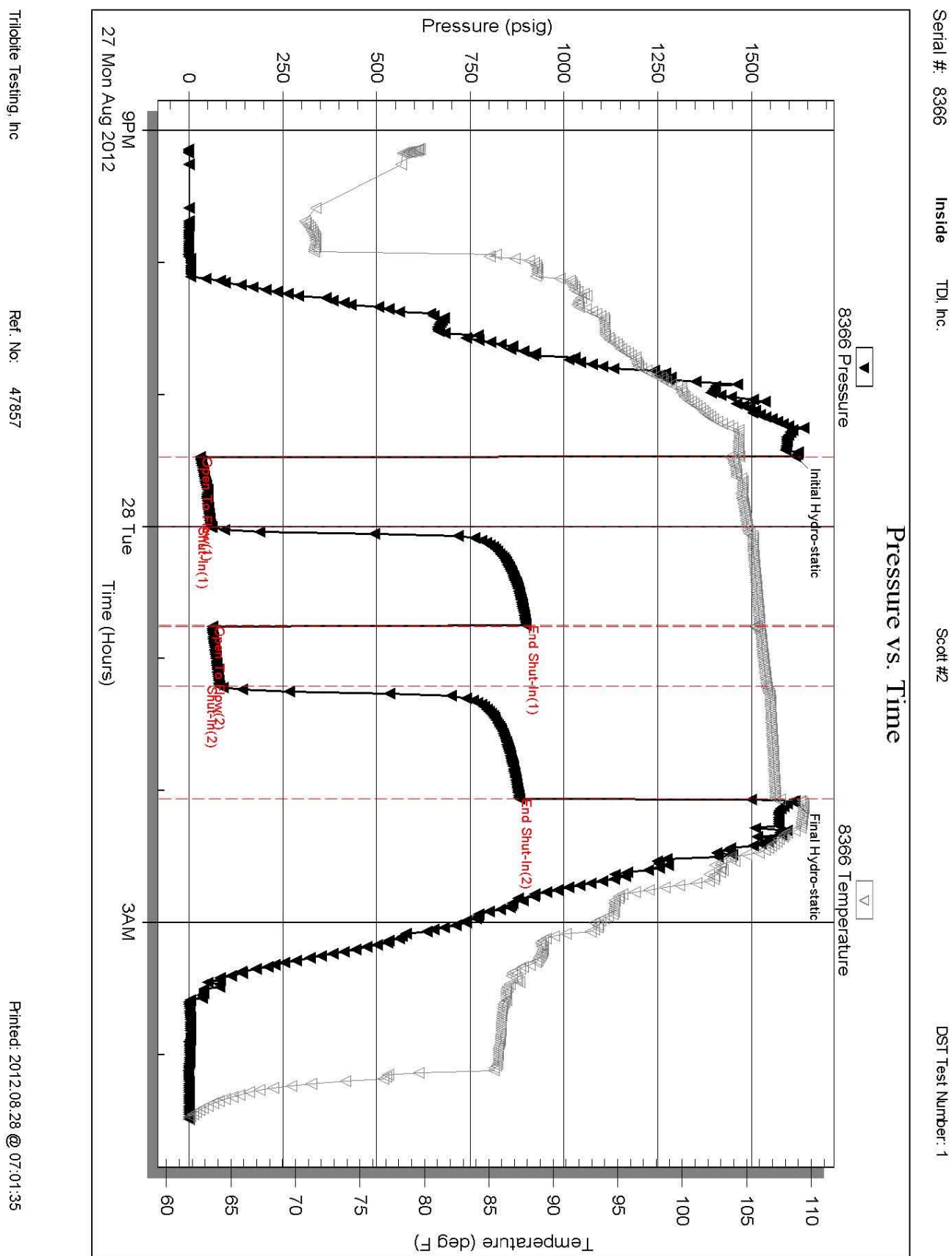
SUMMARY OF DAILY ACTIVITY

- 8-22-12 RU, Spud, set 8 5/8" surface casing to 211' with 150 sacks Common, 2 %Gel, 3%CC, plug down 5:00AM 8-23-12
- 8-23-12 211', WOC
- 8-24-12 1357', drilling
- 8-25-12 2128', drilling
- 8-26-12 2698', drilling, displace 2875'
- 8-27-12 3180', drilling, DST # 1, 3336'-3385', slope ¼ degree
- 8-28-12 3390', drilling, DST # 2, 3464'-3545'
- 8-29-12 3596', drilling, RTD 3750', Logs, Decision to P&A
- 8-30-12 3750' lay down drill pipe, rig down


DST # 1 TEST SUMMARY

 <p>TRILOBITE TESTING, INC.</p>	DRILL STEM TEST REPORT																																						
	TDI, Inc. 1310 Bison Road Hays, KS. 67601 ATTN: Herb Deines	10-15s-19w-Ellis Scott #2 Job Ticket: 47857 DST#: 1 Test Start: 2012.08.27 @ 21:08:23																																					
GENERAL INFORMATION:																																							
Formation: A-B-C Deviated: No Whipstock: 0.00 ft (KB) Time Tool Opened: 23:28:08 Time Test Ended: 04:29:53		Test Type: Conventional Bottom Hole (Initial) Tester: Jason McLemore Unit No: 54																																					
Interval: 3336.00 ft (KB) To 3385.00 ft (KB) (TVD) Total Depth: 3385.00 ft (KB) (TVD) Hole Diameter: 7.80 inches Hole Condition: Good		Reference Elevations: 2048.00 ft (KB) 2040.00 ft (CF) KB to GR/CF: 8.00 ft																																					
Serial #: 8366 Inside Press@RunDepth: 80.37 psig @ 3372.00 ft (KB) Capacity: 8000.00 psig Start Date: 2012.08.27 End Date: 2012.08.28 Last Calib.: 2012.08.28 Start Time: 21:08:25 End Time: 04:29:53 Time On Btm: 2012.08.27 @ 23:27:53 Time Off Btm: 2012.08.28 @ 02:04:53																																							
TEST COMMENT: IFF-Weak Blow, Built to 4-1/4" ISI-Dead FFP-Weak Blow, Built to 4-1/4" FSI-Dead																																							
Pressure vs. Time 		PRESSURE SUMMARY																																					
		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Time (Min.)</th> <th>Pressure (psig)</th> <th>Temp (deg F)</th> <th>Annotation</th> </tr> </thead> <tbody> <tr><td>0</td><td>1618.12</td><td>104.45</td><td>Initial Hydro-static</td></tr> <tr><td>1</td><td>29.26</td><td>103.66</td><td>Open To Flow (1)</td></tr> <tr><td>32</td><td>57.43</td><td>105.02</td><td>Shut-in(1)</td></tr> <tr><td>77</td><td>899.51</td><td>106.00</td><td>End Shut-in(1)</td></tr> <tr><td>78</td><td>61.60</td><td>105.74</td><td>Open To Flow (2)</td></tr> <tr><td>105</td><td>80.37</td><td>106.54</td><td>Shut-in(2)</td></tr> <tr><td>156</td><td>881.39</td><td>107.21</td><td>End Shut-in(2)</td></tr> <tr><td>157</td><td>1615.94</td><td>109.17</td><td>Final Hydro-static</td></tr> </tbody> </table>	Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation	0	1618.12	104.45	Initial Hydro-static	1	29.26	103.66	Open To Flow (1)	32	57.43	105.02	Shut-in(1)	77	899.51	106.00	End Shut-in(1)	78	61.60	105.74	Open To Flow (2)	105	80.37	106.54	Shut-in(2)	156	881.39	107.21	End Shut-in(2)	157	1615.94	109.17	Final Hydro-static	
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DST # 1 EXPANDED CHART



DST # 2 TEST SUMMARY



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

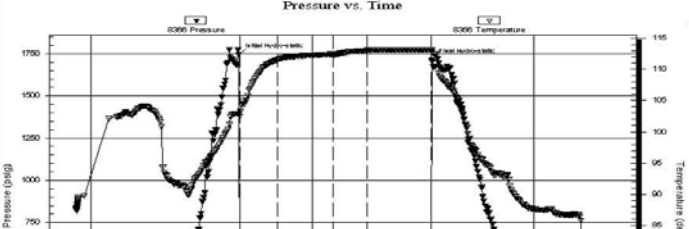
TDI, Inc. 1310 Bison Road Hays, KS. 67601 ATTN: Herb Deines	<p>10-15s-19w-Ellis</p> <p>Scott #2</p> <p>Job Ticket: 47858 DST#: 2</p> <p>Test Start: 2012.08.28 @ 17:47:41</p>
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GENERAL INFORMATION:

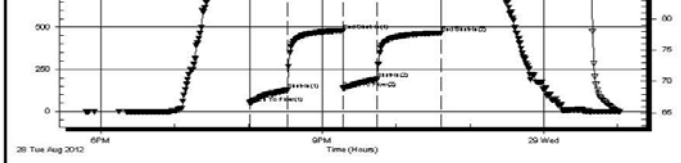
Formation: H-I-J	Deviated: No	Whipstock: 0.00 ft (KB)	Test Type: Conventional Bottom Hole (Reset)
Time Tool Opened: 20:00:56	Time Test Ended: 01:01:26	Interval: 3464.00 ft (KB) To 3565.00 ft (KB) (TVD)	Reference Elevations: 2048.00 ft (KB)
Total Depth: 3545.00 ft (KB) (TVD)	Hole Diameter: 7.80 inches	Hole Condition: Good	2040.00 ft (CF)
			KB to GR/CF: 8.00 ft

Serial #: 8366	Inside	Press@RunDepth: 192.20 psig @ 3532.00 ft (KB)	Capacity: 8000.00 psig
Start Date: 2012.08.28	End Date: 2012.08.29	Start Time: 17:47:43	Last Calib.: 2012.08.29
	End Time: 01:01:26		Time On Btm: 2012.08.28 @ 20:00:11
			Time Off Btm: 2012.08.28 @ 22:37:11

TEST COMMENT: IFP-Good Blow, BOB in 17 Min.
 ISI-Dead
 FFP-Fair, Built to 9"
 FSI-Dead



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1744.62	102.97	Initial Hydro-static
1	52.26	102.42	Open To Flow (1)
32	127.79	111.53	Shut-in(1)
77	480.85	112.48	End Shut-in(1)
77	136.94	112.29	Open To Flow (2)
105	192.20	113.07	Shut-in(2)
157	466.78	113.14	End Shut-in(2)



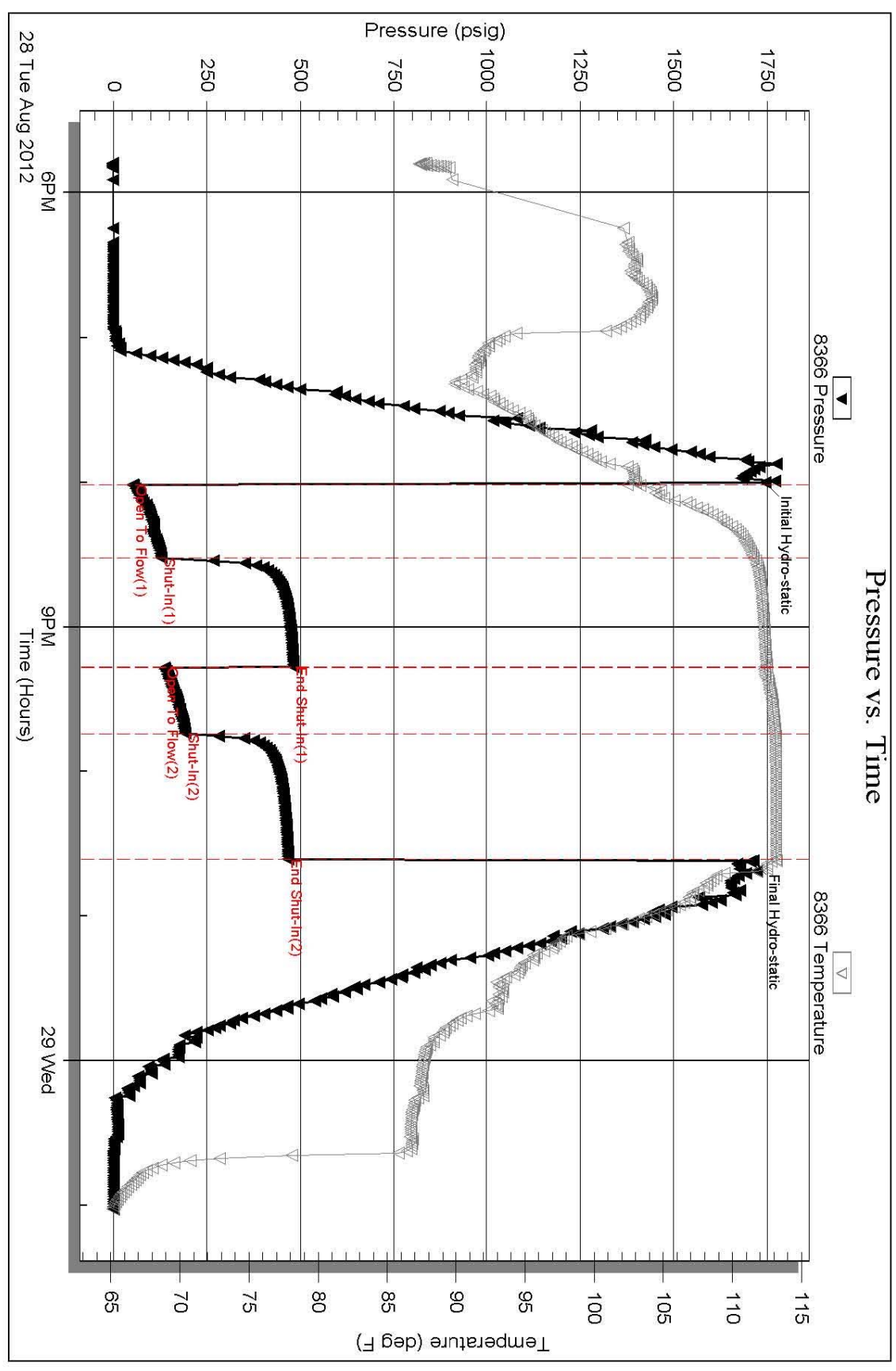
157	1711.85	113.16	Final Hydro-static
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Recovery		
Length (ft)	Description	Volume (bbl)
305.00	Watery Mud W/Oil Scum-70%M-30%WV	4.28

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

Recovery from multiple tests
 Trilobite Testing, Inc Ref. No: 47858 Printed: 2012.08.29 @ 07:51:25

DST # 2 EXPANDED CHART



Trilobite Testing, Inc

Ref. No: 47858

Printed: 2012.08.29 @ 07:51:27

Serial #: 8366

Inside

TDL, Inc.

Scott #2

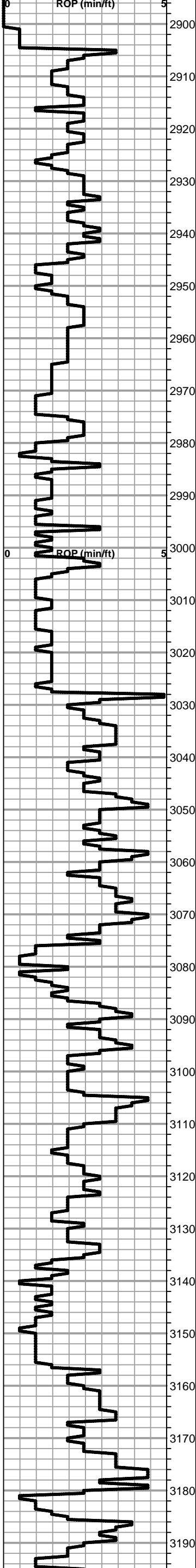
DST Test Number: 2

ROCK TYPES			
Dolprim	Lmst fw<7	shale, gry	Ss
Dolsec	Lmst fw>7	Carbon Sh	CglSandy
Dol Lime	shale, grn	shale, red	

ACCESSORIES	
MINERAL	FOSSIL
▲ Chert, dark	○ Oolite
↘ Dolomitic	⊕ Oomoldic
∞ Glauconite	
△ Chert White	

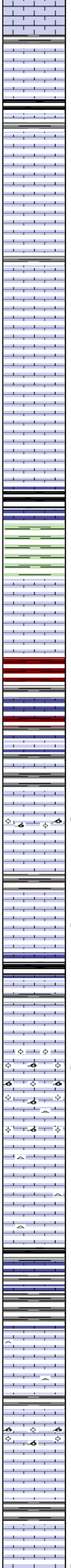
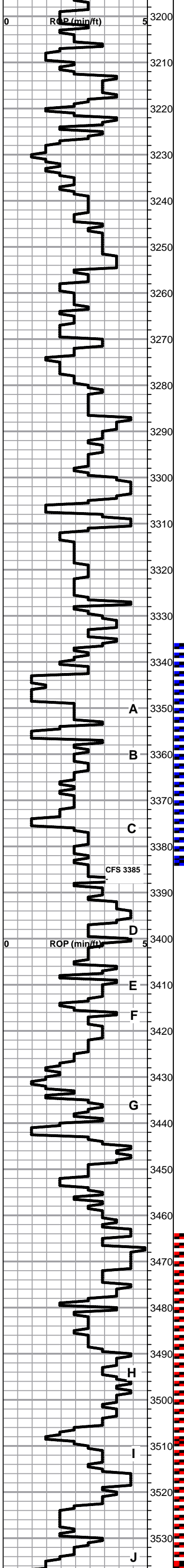
OTHER SYMBOLS
DST
■ DST Int
■ DST alt

Curve Track #1 ROP (min/ft)	Depth Intervals DST	Lithology	Oil Show	Geological Descriptions	Curve Track #3
1:240 Imperial ROP (min/ft)	Cored Interval DST Interval				1:240 Imperial



2900	BEGIN 1' DRILL TIME FROM 2900' TO RTD BEGIN 10' WET AND DRY SAMPLES FROM 3000' TO RTD
2910	ANHYDRITE TOP ELog 1289+759 ANHYDRITE BASE ELog 1313+735
2920	
2930	
2940	
2950	
2960	
2970	
2980	Lime, lt-med gray, fnxln, slightly fossiliferous
2990	Lime, lt-med brn, fnxln, chalky in part, slightly fossiliferous
3000	Shale, med gray, soft blocky, sandy and gritty in part
3010	Lime, med brn-gray, fossiliferous
3020	Shale, lt-med gray, soft blocky with some soft sticky clumps
3030	<u>TOPEKA SPL 3031-983 ELog 3026-978</u>
3040	Lime, brn, fnxln, fossiliferous
3050	Lime, med-dark brn, fnxln, light content of bedded chalk
3060	Lime, med-dark, brn, fnxln, fossiliferous in party
3070	Lime, lt brn-lt gray, fnxln, slightly fossiliferous, brittle on break
3080	Lime, med brn-grayish brn, fn-vfxln
3090	Lime, lt-med brn, fnxln-granular, scattered chalk with few fusulinids, NS
3100	Lime, med brn-grayish brn, fn-vfxln, slightly fossiliferous
3110	Lime, med-dark brn-grayish brn, fnxln, fossiliferous in part
3120	Lime, med brn-grayish brn, fn-vfxln in part
3130	Lime, med brn, fnxln-granular, NS
3140	Lime, lt-med brn, fnxln
3150	Lime, lt-med brn, fnxln-granular in part Chert, white, fresh, sharp
3160	Lime, lt-med brn, granular, white chalky wash, few clumps of soft sticky chalk
3170	Shale, black carbonaceous
3180	Lime, med brn, fnxln
3190	Lime, lt-med brn, fn-vfxln, hard on break
	Lime, crm-lt brn, granular with chalk, NS, NO ODOR
	Lime, lt brn, fnxln-granular, microfossiliferous, chalk in part, NS

8 5/8" SURFACE CASING SET TO 211' WITH 150 SACKS COMMON, 2% GEL, 3% CC
SLOPE 3/4 DEGREE



Lime, lt brn, granular-fnxln with sticky white chalk clumps

Lime, lt brn, granular-fnxln, chalk in part

Shale, black carbonaceous, fissile

Lime, lt-med brn, fnxln, hard

Lime, tan-lt brn, fnxln-granular, chalk in part

Lime, tan-lt brn fnxln, chalky

Lime, lt-med brn-grayish brn, fn-vfxln

Lime, lt-med brn-grayish brn, fnxln, NS

Lime, lt-med brn, fnxln-granular, slight chalk in part

Lime, crm-lt brn, fnxln-granular in part

Lime, crm-lt brn, fnxln

Lime, lt brn, fnxln

HEEBNER SHALE SPL 3303-1255 ELog 3302-1254

Shale, black carbonaceous, fissile, blocky

Lime, med brn, fn-vfxln, hard, slightly fossiliferous

Shale, lime green, soft forming soft mud balls in part

TORONTO SPL 3325-1277 ELog 3322-1274

Lime, white-crm, fn-vfxln, bedded chalk in part, NS

Lime, crm, fn-vfxln, chalk in part, NS

Shale, soft red clumps with lt gray clumps in part

LKC SPL 3348-1300 ELog 3346-1298

Lime, lt gray, fnxln

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

Lime, tan-lt brn, fnxln

Lime, tan, oolitic/oolmoldic in part, scattered stain, very lt odor

Lime, lt brn, fnxln, chalky

Shale, med-dark gray, fissile, soft

Lime, lt gray, fnxln, hard with few chips with spotty stain, poor visible porosity

Shale, black carbonaceous, fissile

Lime, lt-med gray, fnxln, soft on crush

Lime, crm-tan, mostly fnxln, chalk in part

Lime, crm-tan, oolitic-oolmoldic, few chips with scattered lt staining, NFO, NO ODOR, lot of chalk with white chalk wash

Lime, crm-tan, fnxln-oolitic/oolmoldic, barren, NS

Lime, crm-tan, fnxln, bedded chalk

Lime, crm-tan, fnxln, bedded chalk

Shale, gray-black carbonaceous, fissile

Lime, med brn, fnxln

Shale, grayish brn, blocky grading into soft mixed color shales forming soft mud clusters

Lime, crm-tan-lt brn, fn-vfxln, hard, NS, chalk in part

Lime, crm-tan, fnxln with bedded chalk

oolitic/oolmoldic with scattered lt stain, NFO, VLT ODOR?

Lime, crm-tan, fnxln, chalk

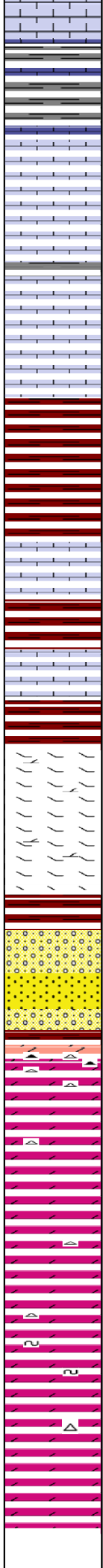
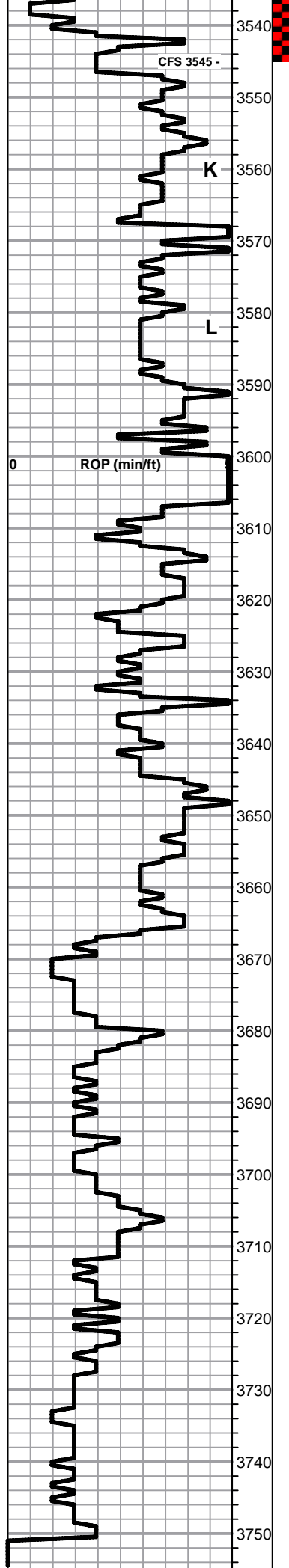
Shale, med gray, soft blocky

Lime, crm-tan, fnxln grading into oolitic/oolmoldic with scattered to saturated stain, VLTODOR

DST # 1 3336' TO 3385'
SEE HEADER FOR TEST SUMMARY

SLOPE 3/4 DEGREE

DST # 2 3464' TO 3545'
SEE HEADER FOR TEST SUMMARY



Lime, crm-tan, fnxln, chalk

Lime, crm-lt brn, fnxln

Lime, crm-lt brn, fn-vfxln, bedded chalk in part, NS

Lime, crm-lt brn, fn-vfxln, chalky

Lime, crm-tan, fnxln, scattered granular, bedded chalk NS

BKC SPL 3589-1541 ELog 3592-1544

Shale, reddish brn, soft blocky with light red wash

Shale, reddish brn , soft forming sticky clumps in part

Lime, crm, fnxln, slightly chalky

Shale, red wash, soft mud and mud clusters.

Lime, crm-tan, fnxln

MARMATON MARKER SPL 3638-1590 ELog 3640-1592

Lime, dolomitic, fn-vfxln, slightly chalky

Lime, crm-tan-offwhite, fn-vfxln

Shale, soft red was grading into cemented sandstone

CONGLOMERATE SAND SPL 3668-1620 ELog 3666-1618

Sandstone, quartz, poorly sorted, highly cemented with white clay, few clusters with SFO on break, few chips friable

ARBUCKLE ELog 3682-1634

Dolomite, mixed with reworked limestone, chalk and cherts

Dolomite, crm, fnxln, white chalky wash

Dolomite, crm-tan, fn-med xln, slightly sucrosic, NS

Dolomite, crm-tan, fnxln, increase in grain size and intercrystalline porosity.

Dolomite, crm, fnxln with scattered specks of glauconite

Dolomite, crm, fn-cxln

RTD 3750-1702 LTD 3750-1702

1ST PLUG @ 3675' W/25 SXS
 2ND PLUG @ 1290' W/25 SXS
 3RD PLUG @ 600' W/100 SXS
 4TH PLUG @ 260' W/40 SXS
 5TH PLUG @ 40' W/10 SXS
 RATHOLE W/30 SX
 JOB COMPLETE 8:45am ON
 8/30/2012

SLOPE 1 DEGREE

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 837

Date	8-23-12	Sec.	10	Twp.	15	Range	19	County	ELLIS	State	KANSAS	On Location		Finish	5:00AM
Lease	SCOTT			Weil No.	#2			Location	ANTINENO-2S-1 3/4 W- E/INTO						
Contractor	SOUTHWIND #4							Owner	T.D.I INC.						
Type Job	SURFACE							To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.							
Hole Size	12 1/4"			T.D.	211'			Charge To	T.D.I INC.						
Csg.	8 7/8"			Depth	211'			Street	1310 BISON RD.						
Tbg. Size				Depth				City	HAYS			State	KS, 67601		
Tool				Depth				The above was done to satisfaction and supervision of owner agent or contractor.							
Cement Left in Csg.				Shoe Joint	15'			Cement Amount Ordered	150com-3% 2% GEL						
Meas Line				Displace	12 Bbl										

EQUIPMENT

Pumptrk #15	No.	Cementer Helper	NICK	Common	150
Bulktrk #8	No.	Driver	JASON	Poz. Mix	
Bulktrk P/U	No.	Driver	CISCO	Gel.	3

JOB SERVICES & REMARKS

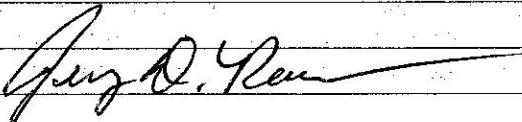
Remarks:	Hulls
Rat Hole	Salt
Mouse Hole	Flowseal
Centralizers	Kol-Seal
Baskets	Mud CLR 48
D/V or Port Collar	CFL-117 or CD110 CAF 38
CEMENT DID CIRCULATE!	Sand
	Handling 158
SWEDGE ON LOCATION.	Mileage

FLOAT EQUIPMENT

Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	

Pumptrk Charge	Surface
Mileage	14

THANK YOU!

X Signature		Tax	
		Discount	
		Total Charge	

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

841

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No.

Date	8-30-12	Sec.	10	Twp.	15	Range	19	County	ELLIS	State	KANSAS	On Location		Finish	9:00am	
Lease	SCOTT		Well No.	#2		Location										ANTONINO - 1W-1S-1/2W-S/INTD
Contractor	SOUTHWIND #4							Owner	T.D.I							
Type Job	D.T.A							To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.								
Hole Size	7 7/8"		T.D.	3,750												
Csg.	4 1/2"		Depth													
Tbg. Size			Depth													
Tool			Depth													
Cement Left in Csg.			Shoe Joint													
Meas Line			Displace	Cement Amount Ordered 230 69/40-49051-4 PLO												

EQUIPMENT

Pumptrk #15	No.	Cementer		Common	138
		Helper	NICK		
Bulktrk #10	No.	Driver		Poz. Mix	92
		Driver	DOUG		
Bulktrk P/W	No.	Driver		Gel.	3
		Driver	CISCO		

JOB SERVICES & REMARKS

Remarks:	Calcium
Rat Hole 30 SKS	Hulls
Mouse Hole	Salt
Centralizers	Flowseal
Baskets	Kol-Seal 50#
D/V or Port Collar	Mud CLR 48
1st @ 3,675'	CFL-117 or CD110 CAF 38
2nd @ 1,290'	Sand
3rd @ 600'	Handling 238
4th @ 260'	Mileage
5th @ 40'	
RATHOLE	
230	

FLOAT EQUIPMENT

	Guide Shoe
	Centralizer
	Baskets
	AFU Inserts
	Float Shoe
	Latch Down
	1- 8 7/8 WOODEN PLUG
	Pumptrk Charge plug
	Mileage if plug

THANK YOU!

X Signature Gary D. [Signature]

Tax
Discount
Total Charge