

OPERATOR

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

Contact Geologist: TOM DENNING
Contact Phone Nbr: 785-259-3141
Well Name: BEFORT # 1
Location: E2 NW NE SW Sec.11-15s-19w
Pool: WILDCAT
State: KANSAS

API: 15-051-26,308-00-00
Field: UNNAMED
Country: USA



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

Scale 1:240 Imperial

Well Name:	BEFORT # 1	
Surface Location:	E2 NW NE SW Sec.11-15s-19w	
Bottom Location:		
API:	15-051-26,308-00-00	
License Number:	4787	
Spud Date:	8/6/2012	Time: 8:30 AM
Region:	ELLIS COUNTY	
Drilling Completed:	8/12/2012	Time: 8:16 AM
Surface Coordinates:	2310' FSL & 1920' FEL	
Bottom Hole Coordinates:		
Ground Elevation:	204300.00ft	
K.B. Elevation:	2050.00ft	
Logged Interval:	2900.00ft	To: 3750.00ft
Total Depth:	3750.00ft	
Formation:	LANSING-KANSAS CITY	
Drilling Fluid Type:	FRESH WATER GEL/CHEMICAL	

SURFACE CO-ORDINATES

Well Type:	Vertical	
Longitude:		Latitude:
N/S Co-ord:	2310' FSL	
E/W Co-ord:	1920' FEL	

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:	8/6/2012	Time: 8:30 AM
TD Date:	8/12/2012	Time: 8:16 AM
Rig Release:	8/12/2012	Time: 10:00 PM

ELEVATIONS

K.B. Elevation:	2050.00ft	Ground Elevation:	204300.00ft
K.B. to Ground:	7.00ft		

NOTES

DECISION TO PLUG AND ABANDON WELL BASED ON NEGATIVE RESULTS OF TWO DSTS AND LACK OF CONGLOMERATE SAND DEVELOPMENT.

RAN DUAL INDUCTION LOG AND DUAL COMPENSATED POROSITY LOG

FORMATION TOPS AND SUMMARY OF DAILY ACTIVITY

Befort # 1

2310' FSL & 1920' FWL, SW/4

Sec.11-15s-19w

2043' GL 2050' KB

<u>FORMATION</u>	<u>SAMPLE TOPS</u>	<u>LOG TOPS</u>
Anhydrite	1254+ 796	1250+ 800
B-Anhydrite	1287+ 763	1284+ 766
Topeka	3014- 964	3013- 963
Heebner Shale	3294-1244	3290-1240
Toronto	3317-1267	3314-1264
LKC	3340-1290	3337-1287
BKC	3589-1539	3582-1532
Conglomerate Sand		3674-1624
Arbuckle		3704-1654
RTD	3750-1700	
LTD		3750-1700

SUMMARY OF DAILY ACTIVITY

8-06-12 RU, Spud, set 8 5/8" to 211' w/150 sxs. Common, 2%Gel, 3%CC

8-07-12	922', drilling
8-08-12	2065', drilling
8-09-12	2790', drilling, mud up
8-10-12	3335', drilling, DST # 1 "C" 3346'-3375', slope 1 degree
8-11-12	3535', CFS, DST # 2, "I" "J" 3486'-3535'
8-12-12	3721', drilling, RTD 3750', Logs, Plug and Abandon well.

[illegible]

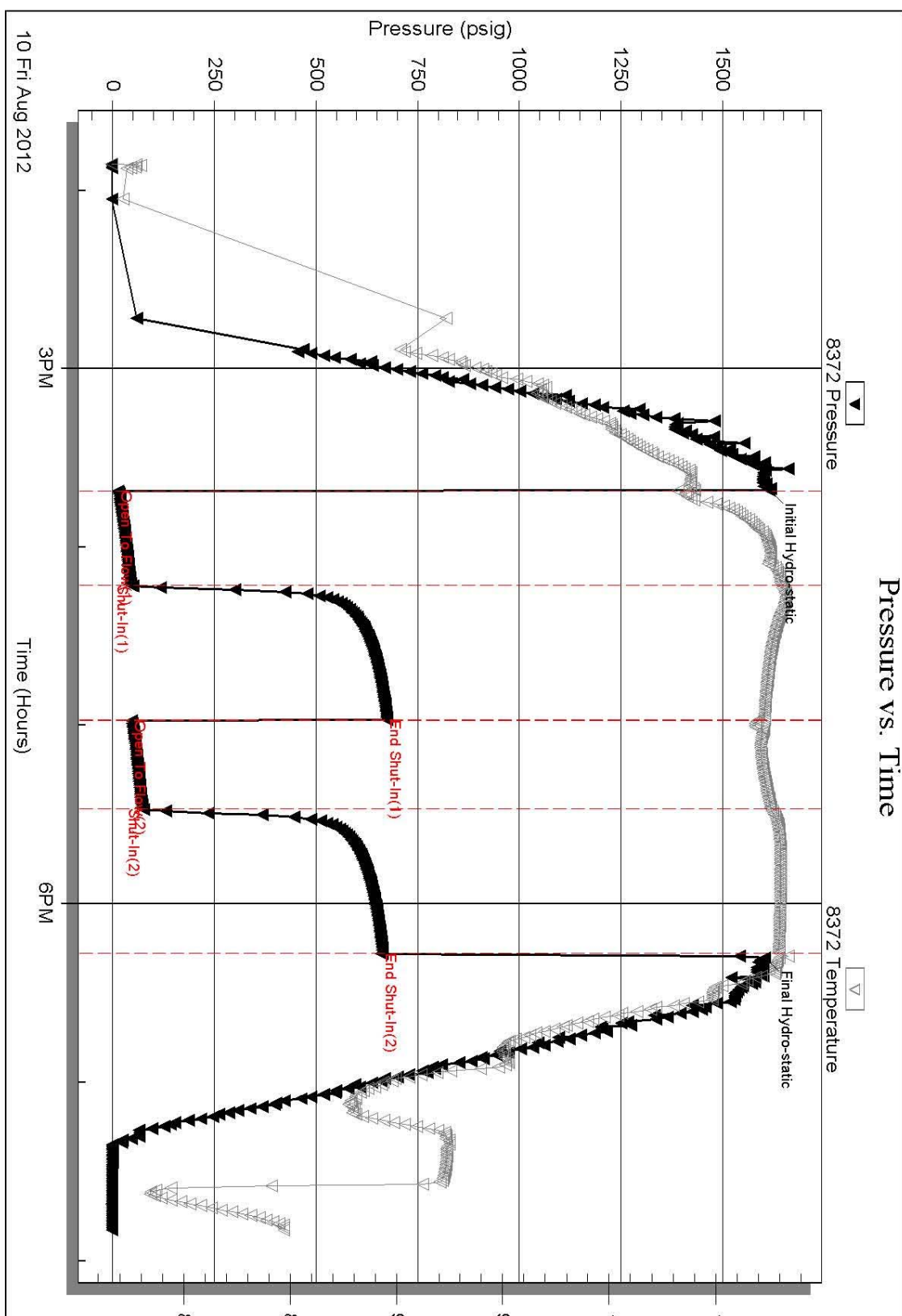
DST # 1 EXPANDED CHART

Serial #: 8372

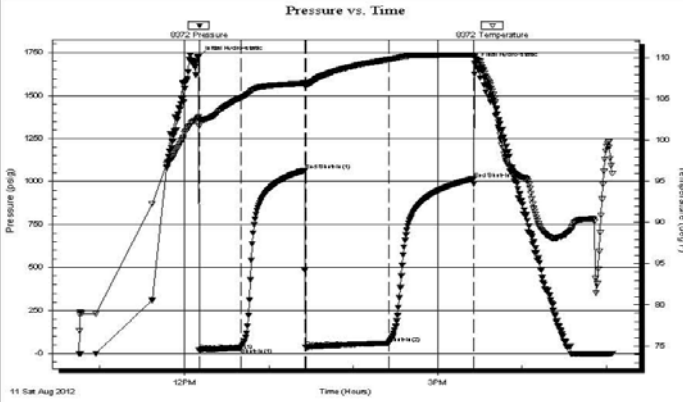
Outside TDI Inc.

Beform #1

DST Test Number: 1



DST # 2 TEST SUMMARY

 TRILOBITE TESTING, INC.	DRILL STEM TEST REPORT																																						
TDI inc. 1310 Bison rd Hays Ks. 67601 ATTN: Herb Deines		11-15s-19w Ellis Befort #1 Job Ticket: 47914 DST#: 2 Test Start: 2012.08.11 @ 10:45:05																																					
GENERAL INFORMATION:																																							
Formation: LKC "I-J" Deviated: No Whipstock: ft (KB) Time Tool Opened: 12:10:20 Time Test Ended: 17:04:09		Test Type: Conventional Bottom Hole (Reset) Tester: Andy Carreira Unit No: 39																																					
Interval: 3486.00 ft (KB) To 3535.00 ft (KB) (TVD) Total Depth: 3535.00 ft (KB) (TVD) Hole Diameter: 7.88 inches Hole Condition: Fair		Reference Elevations: 2050.00 ft (KB) 2043.00 ft (CF) KB to GR/CF: 7.00 ft																																					
Serial #: 8372 Press@RunDepth: 60.59 psig @ ft (KB) Start Date: 2012.08.11 End Date: 2012.08.11 Start Time: 10:45:05 End Time: 17:04:10																																							
		Capacity: 8000.00 psig Last Calib.: 2012.08.11 Time On Btm: 2012.08.11 @ 12:09:50 Time Off Btm: 2012.08.11 @ 15:26:20																																					
TEST COMMENT: IF:(30min) Built & held steady at 2" in 15 min. ISl:(45min) No Return FF:(60min) 1" in 5 min. Decreased to surface blow. FSl:(60min) No Return																																							
		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>1726.26</td><td>102.78</td><td>Initial Hydro-static</td></tr> <tr><td>1</td><td>18.14</td><td>101.75</td><td>Open To Flow (1)</td></tr> <tr><td>31</td><td>34.78</td><td>105.16</td><td>Shut-In(1)</td></tr> <tr><td>76</td><td>1065.75</td><td>106.96</td><td>End Shut-In(1)</td></tr> <tr><td>77</td><td>37.88</td><td>106.70</td><td>Open To Flow (2)</td></tr> <tr><td>136</td><td>60.59</td><td>109.82</td><td>Shut-In(2)</td></tr> <tr><td>196</td><td>1016.79</td><td>110.42</td><td>End Shut-In(2)</td></tr> <tr><td>197</td><td>1687.03</td><td>110.17</td><td>Final Hydro-static</td></tr> </tbody> </table>		Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation	0	1726.26	102.78	Initial Hydro-static	1	18.14	101.75	Open To Flow (1)	31	34.78	105.16	Shut-In(1)	76	1065.75	106.96	End Shut-In(1)	77	37.88	106.70	Open To Flow (2)	136	60.59	109.82	Shut-In(2)	196	1016.79	110.42	End Shut-In(2)	197	1687.03	110.17	Final Hydro-static
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation																																				
0	1726.26	102.78	Initial Hydro-static																																				
1	18.14	101.75	Open To Flow (1)																																				
31	34.78	105.16	Shut-In(1)																																				
76	1065.75	106.96	End Shut-In(1)																																				
77	37.88	106.70	Open To Flow (2)																																				
136	60.59	109.82	Shut-In(2)																																				
196	1016.79	110.42	End Shut-In(2)																																				
197	1687.03	110.17	Final Hydro-static																																				
Recovery <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Length (ft)</th> <th>Description</th> <th>Volume (bbl)</th> </tr> </thead> <tbody> <tr> <td>95.00</td> <td>OSMV o=tr m=30% w=70%</td> <td>1.33</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> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>		Length (ft)	Description	Volume (bbl)	95.00	OSMV o=tr m=30% w=70%	1.33																Gas Rates <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Choke (inches)</th> <th>Pressure (psig)</th> <th>Gas Rate (Mcf/d)</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </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>		Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)												
Length (ft)	Description	Volume (bbl)																																					
95.00	OSMV o=tr m=30% w=70%	1.33																																					
Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)																																					

* Recovery from multiple tests

Trilobite Testing, Inc

Ref. No: 47914

Printed: 2012.08.12 @ 01:58:31

DST # 2 EXPANDED CHART

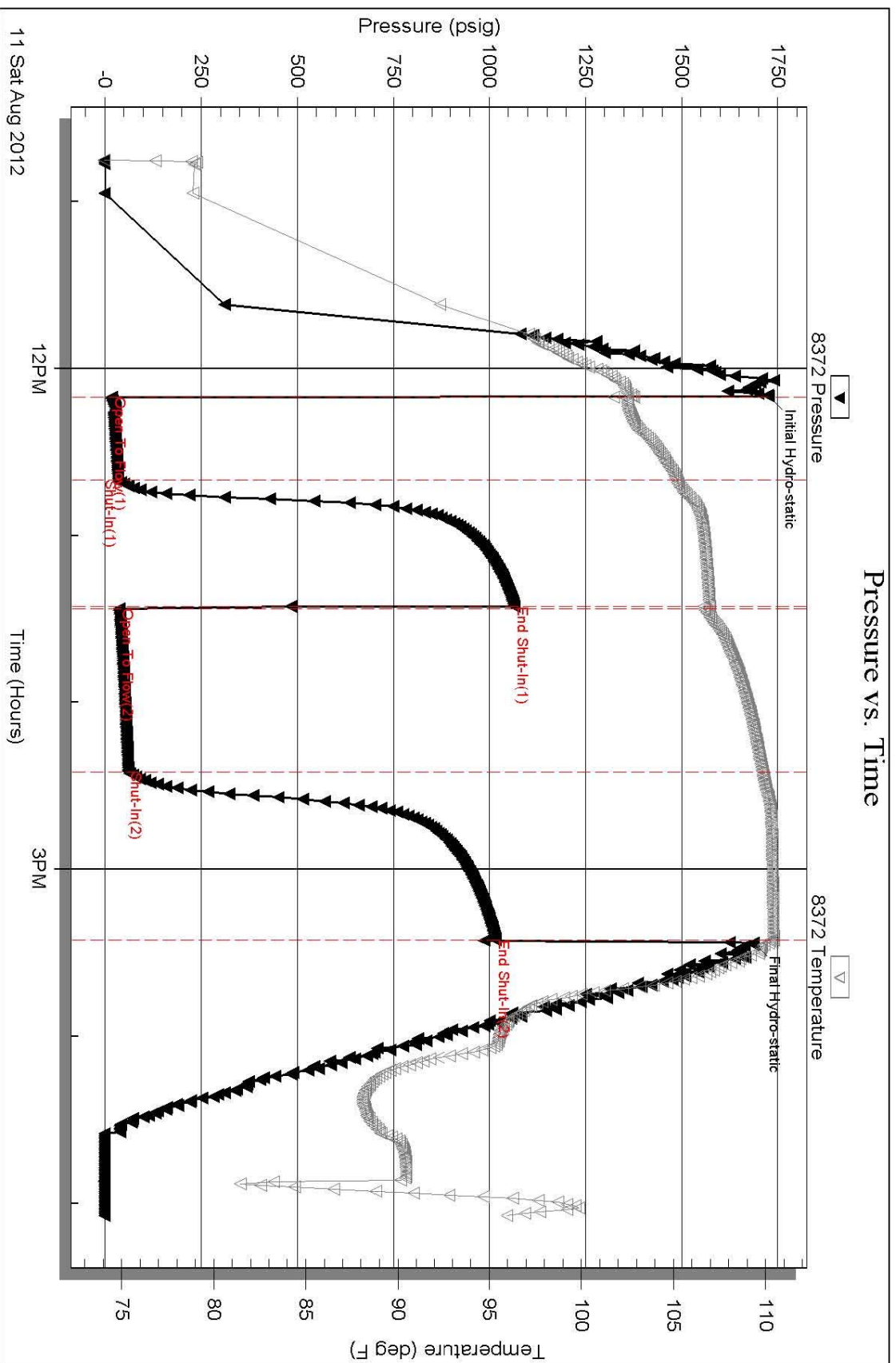
Serial #: 8372

TDI inc.

Beforet #1

DST Test Number: 2

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 47914

Printed: 2012.08.12 @ 01:58:32

ROCK TYPES

Cht vari	Lmst fw7>	Carbon Sh	Ss	Dol Lime
Dolprim	shale, grn	shale, red	Slstst	Lscongl
Lmst fw<7	shale, gry	Shcol	Calc Dol	

ACCESSORIES

MINERAL

- ▲ Chert, dark
- △ Chert White

FOSSIL

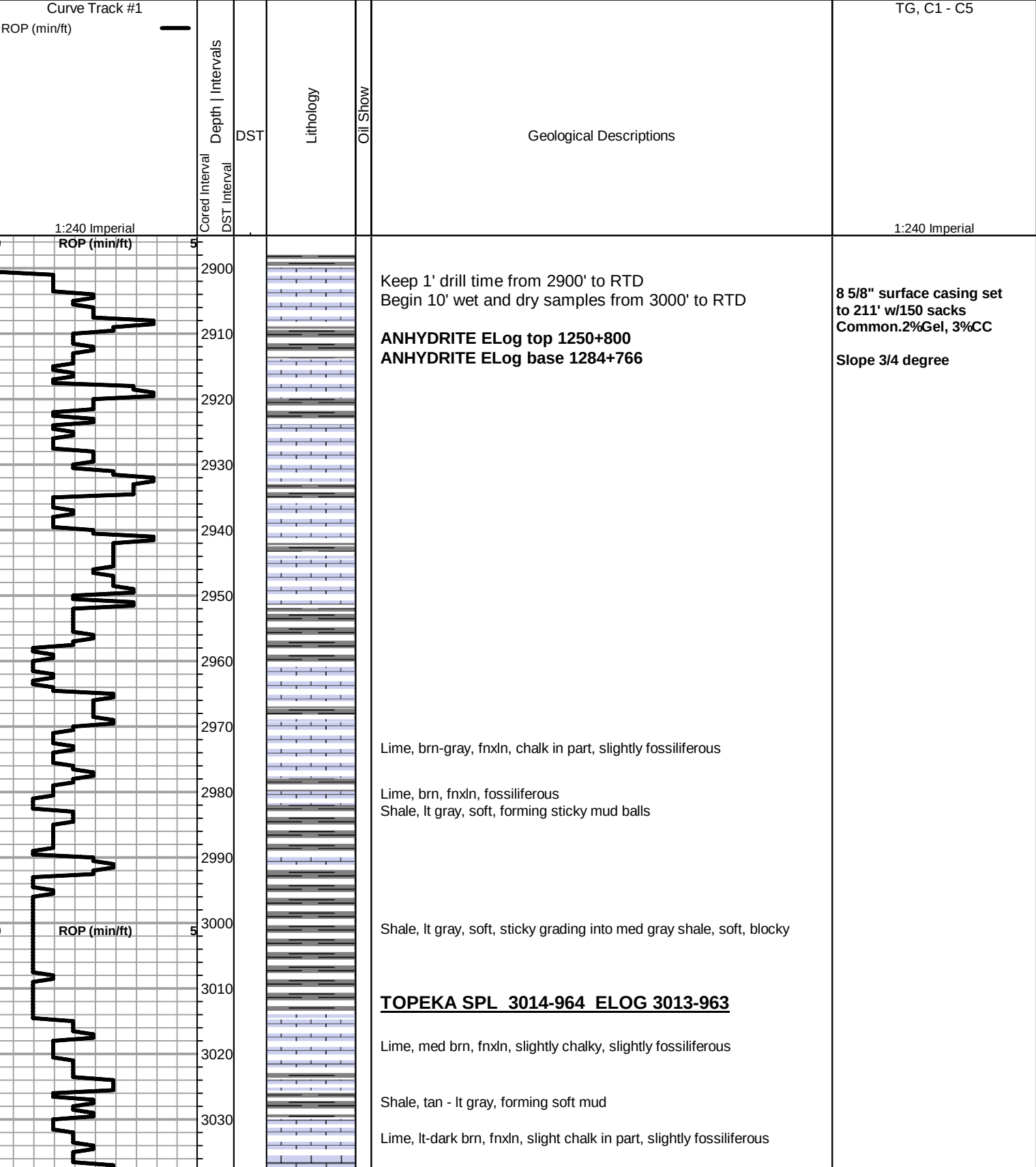
- ⊖ Oolite
- ⊖ Oomoldic

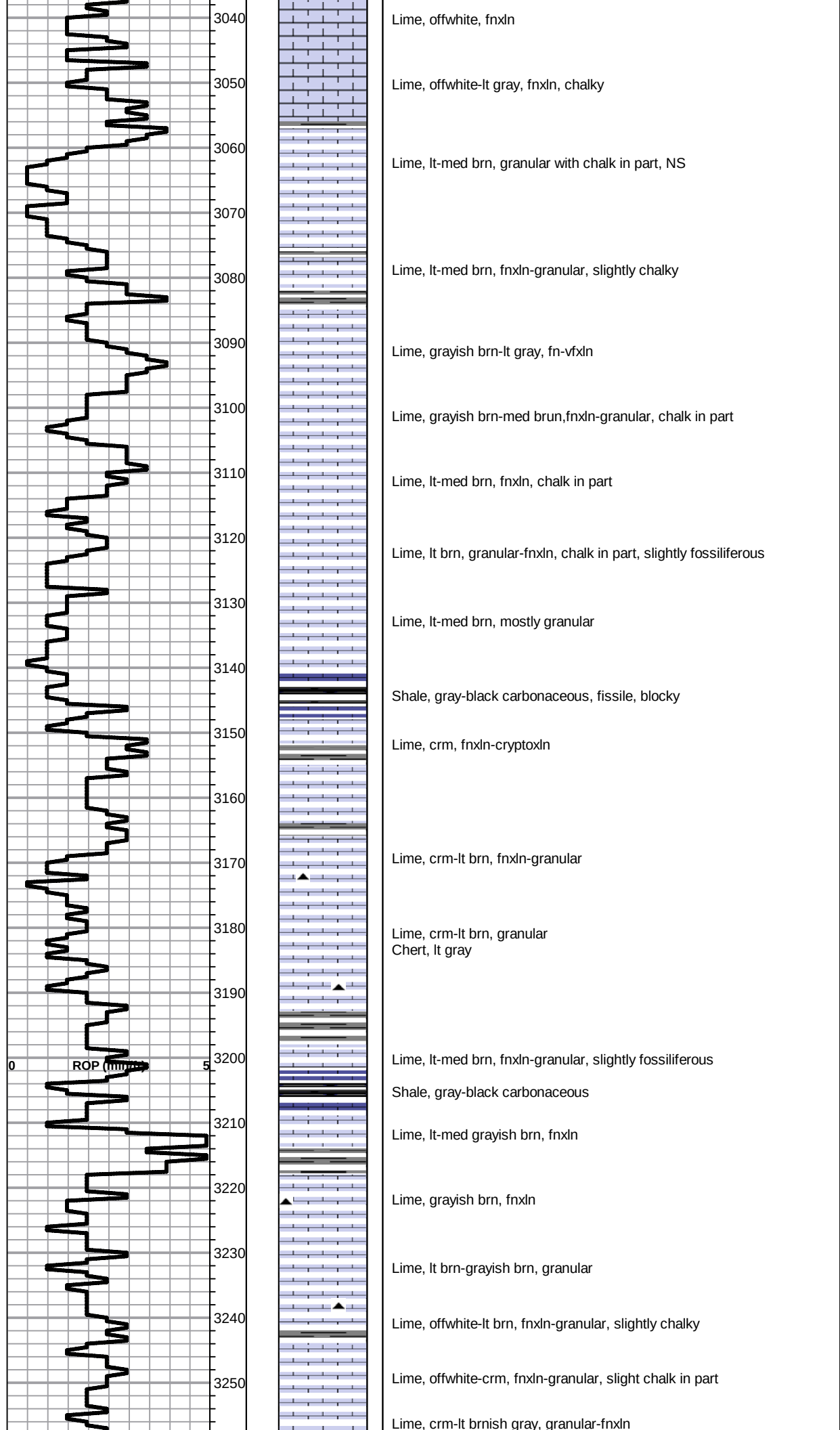
OTHER SYMBOLS

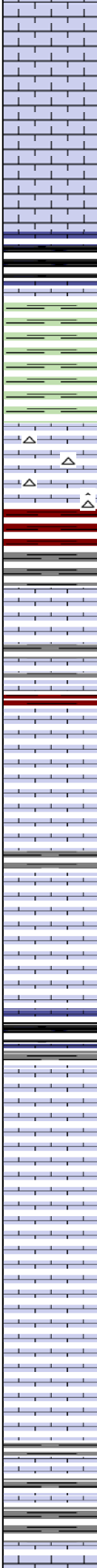
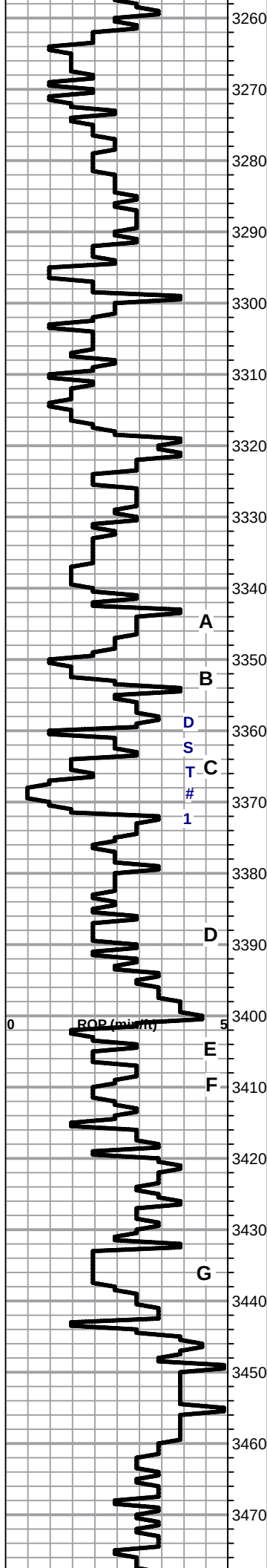
DST

- DST Int
- DST alt
- Core

Printed by GEOstrip VC Striplog version 4.0.7.0 (www.grsi.ca)







Lime, crm-lt brn, granular, chalky

Lime, crm-lt brn, fnxln-grnular

HEEBNER SHALE SPL 3294-1244 ELog 3290-1240

Shale, black carbonaceous
Lime, med brn, fnxln,hard

Shale, lt green, soft blocky

TORONTO SPL 3317-1267 ELog 3314-1264

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

Shale, red wash, soft

LKC SPL 3340-1290 ELog 3337-1287

Lime, tan fnxln, crumbly in part-hard-brittle

Lime, tan, fnxln, brittle on break, bedded chalk in part

Lime, crm-tan, fnxln-oolitic/oomoldic, scattered staining, NFO, very lt odor. Zone condemned with DST # 1

Lime, crm-tan, fnxln

Lime, tan-lt brn, fnxln, bedded chalk

Lime, tan-brn, fnxln, chalk

Shale, gray-black carbonaceous
Lime, lt gray, fnxln

Lime, crm-tan, fnxln, chalk

Lime, crm-tan, fnxln, chalk

Lime, crm-tan, fnxln, chalk

Lime, crm-tan, granular-fnxln, chalky

Lime, crm-tan, fnxln, chalk

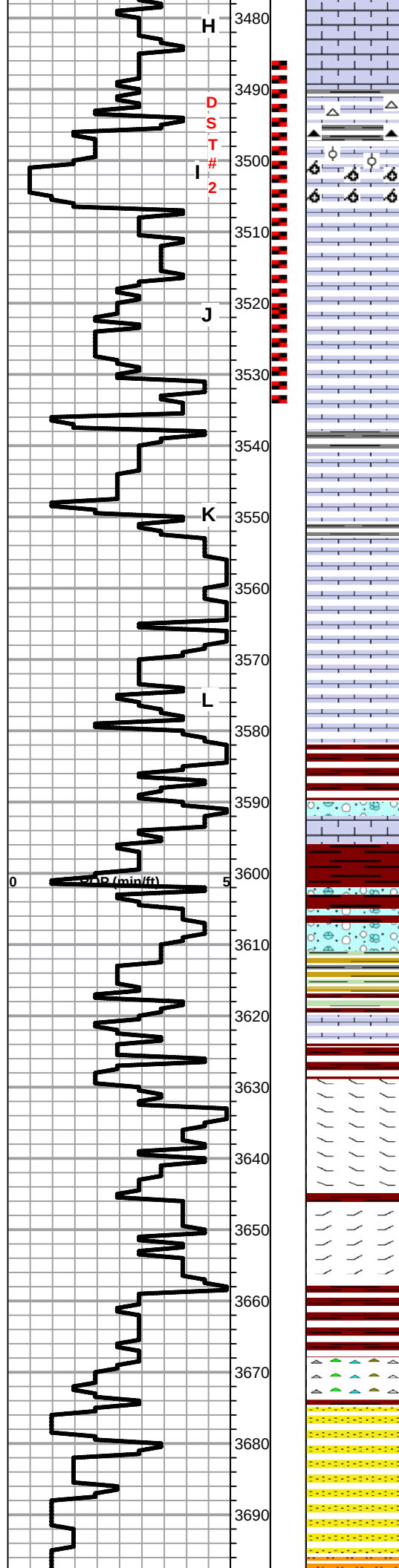
Lime, crm-tan, fn-vfxln, chalk

Lime, crm-tan, fn-cryptoxln, chalk in part

Lime, crm-tan, fnxln with dark brn, fnxln lime in part

**DST # 1 3346' TO 3375'
SEE HEADER FOR TEST
SUMMARY**

Slope 1 degree



Lime, crm-tan, fn-vfxln, slightly chalky

Lime, crm-tan, fnxln
Chert, white and black, sharp, fresh

Lime, crm-tan, oolitic-oomoldic, scattered lt stain, no odor, NFO

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

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

Lime, crm-lt brn, fnxln, scattered stain with very lite odor

Lime, crm-tan, fnxln

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

Lime, crm-lt brn, fn-vfxln, slight chalk in part

Lime, crm-lt brn, fnxln-cryptoxln, chalk in part

BKC SPL 3589-1539 ELOG 3582-1532

Lime, lt-med brn, fn-vfxln

Shale, red wash

Clastic lime mix with red shale stain

Shale, reds, greens, grays

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

MARMATON MARKER ELog 3629-1579

Lime, dolomitic, tan-lt brn, fnxln

Mix of reworked dolomite and vary colored micritic limestone

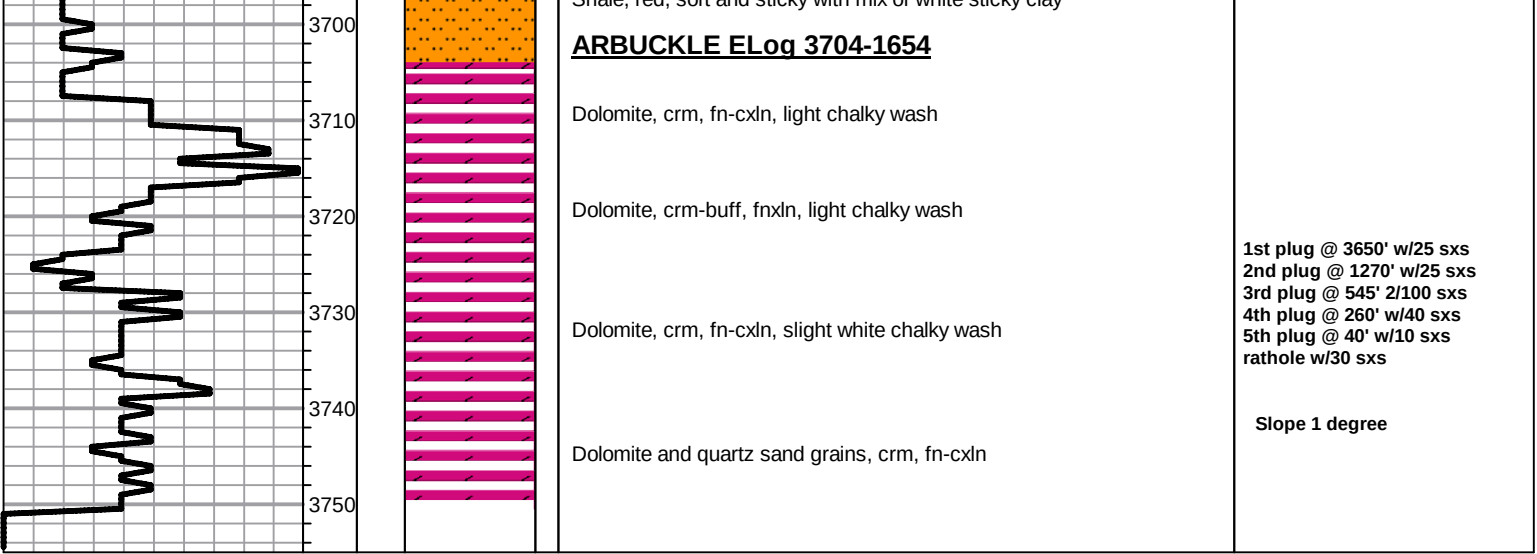
Shale, red wash

CONGLOMERATE SAND ELog 3674-1624

Sandstone, medium-coarse grained, poor sorting, cemented in part with mix of coarser grained well sorted sandstone. Largely barren. Zone very low structurally.

Shale, red, soft and sticky with mix of white sticky clay

DST # 2 3486' TO 3535'
SEE HEADER FOR TEST
DETAILS



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. 822

Date	8-6-12	Sec.	11	Twp.	15	Range	19	County	ELLIS	State	KANSAS	On Location		Finish	2:15 pm	
Lease	BEFORET		Well No.	#1		Location										ANTONIO 1W-15-12W
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.		
Csg.	8 5/8"		Depth	211'		Street								1310 BISON RD		
Tbg. Size			Depth			City								HAYS, KS	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								150 com-3cc-2gel		
Meas Line			Displace	12 1/2												
EQUIPMENT																
Pumptrk	#9	No.	Cement	MATT		Common								150		
Bulktrk	#8	No.	Driver	CODY		Poz. Mix										
Bulktrk	Du	No.	Driver	CRISCO		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								
							Sand									
CEMENT DID CIRCULATE!							Handling									158
							Mileage									
FLOAT EQUIPMENT																
							Guide Shoe									
							Centralizer									
							Baskets									
							AFU Inserts									
							Float Shoe									
							Latch Down									
							Pumptrk Charge									SURFACE
							Mileage									12
							Tax									
							Discount									
							Total Charge									
X Signature Brent Babura																

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. 719

Date	8-12-12	Sec.	11	Twp.	15	Range	19 W	County	Ellis	State	KS	On Location	5:00pm	Finish	9:30pm	
Lease	Belted		Well No.		#1		Location Antonio 25 km Ninto									
Contractor	Southwind #4							Owner								
Type Job	plug							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	T.D. 3750							Charge To								
Csg.	Depth							T D I								
Tbg. Size	Depth							Street								
Tool	Depth							City State								
Cement Left in Csg.	Shoe Joint							The above was done to satisfaction and supervision of owner agent or contractor.								
Meas Line	Displace							Cement Amount Ordered 230 640 420 gel								
EQUIPMENT																
Pumptrk	16	No.	Cementer	mat	Common 133											
Bulktrk	8	No.	Driver	thru	Poz. Mix 92											
Bulktrk		No.	Driver	Cody	Gel. 8											
JOB SERVICES & REMARKS																
Remarks:								Calcium								
Rat Hole	30 545							Hulls								
Mouse Hole								Salt								
Centralizers								Flowseal 50 #								
Baskets								Kol-Seal								
D/V or Port Collar								Mud CLR 48								
								CFL-117 or CD110 CAF 38								
								Sand								
								Handling 238								
								Mileage								
FLOAT EQUIPMENT																
								Guide Shoe								
								Centralizer								
								Baskets								
								AFU Inserts								
								Float Shoe								
								Latch Down								
								Pumptrk Charge plug								
								Mileage 12								
Tax																
Discount																
Total Charge																
X Signature <i>[Signature]</i>																