

OPERATOR

Company: TDI, INC
 Address: 1310 BISON ROAD
 HAYS, KS

Contact Geologist: TOM DENNING
 Contact Phone Nbr: 785-259-3141
 Well Name: HAROLD # 1
 Location: SE SW NE Sec.31-14s-19w
 Pool: WILDCAT
 State: KANSAS

API: 15-051-26313-00-00
 Field:
 Country: USA



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

Scale 1:240 Imperial

Well Name: HAROLD # 1
 Surface Location: SE SW NE Sec.31-14s-19w
 Bottom Location:
 API: 15-051-26313-00-00
 License Number: 4787
 Spud Date: 6/9/2012 Time: 3:00 PM
 Region: ELLIS COUNTY Time: 8:18 AM
 Drilling Completed: 6/16/2012
 Surface Coordinates: 2310' FNL & 1650' FEL
 Bottom Hole Coordinates:
 Ground Elevation: 2082.00ft
 K.B. Elevation: 2092.00ft
 Logged Interval: 3000.00ft To: 3779.00ft
 Total Depth: 3775.00ft
 Formation: LANSING-KANSAS CITY
 Drilling Fluid Type: CHEMICAL/FRESH WATER GEL

SURFACE CO-ORDINATES

Well Type: Vertical
 Longitude: Latitude:
 N/S Co-ord: 2310' FNL
 E/W Co-ord: 1650' 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 #: 1
 Rig Type: MUD ROTARY
 Spud Date: 6/9/2012 Time: 3:00 PM
 TD Date: 6/16/2012 Time: 8:18 AM
 Rig Release: 6/16/2012 Time: 11:15 PM

ELEVATIONS

K.B. Elevation: 2092.00ft Ground Elevation: 2082.00ft
 K.B. to Ground: 10.00ft

NOTES

RECOMMENDATION TO PLUG AND ABANDON WELL DUE TO NEGATIVE RESULTS OF THREE DSTs.

FORMATION TOPS SUMMARY

HAROLD #1


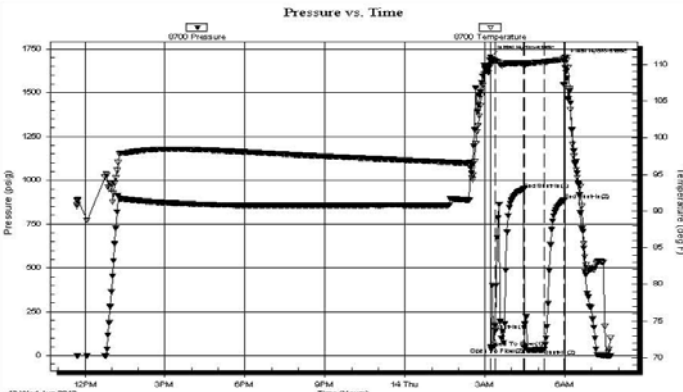
SE SW NE
 Sec.31-14s-19w
 2082' GL 2092' KB

<u>FORMATION</u>	<u>SAMPLE TOP</u>	<u>LOG TOP</u>
Anhydrite	1348+ 744	1356+ 736
B-Anhydrite	1384+ 708	1391+ 701
Topeka	3074- 982	3080- 988
Heebner Shale	3340-1248	3346-1254
Toronto	3371-1279	3372-1280
LKC	3388-1296	3394-1302
BKC	3639-1547	3642-1550
Arbuckle	3720-1628	3724-1632
RTD	3775-1683	
LTD		3779-1687


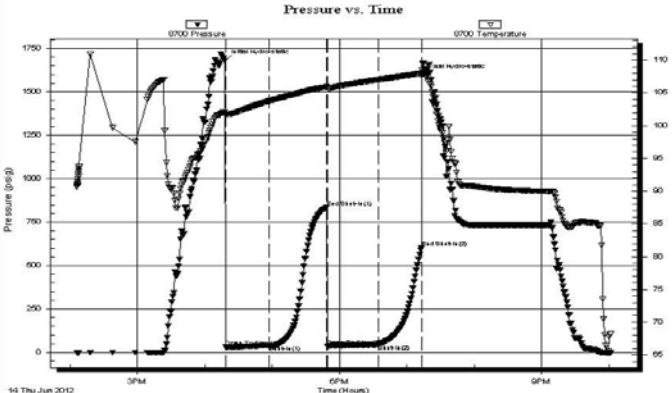
SUMMARY OF DAILY ACTIVITY AND DEPTH AT 7:00AM

6-09-12	RU, Spud, set surface casing to 213.76' w/150 sxs. Common, 2%gel, 3%CC, Slope survey ¼ degree, WOC 8 hrs. Plug down 6:15PM.
6-10-12	634' drilling
6-11-12	2192' drilling
6-12-12	2840' drilling
6-13-12	3430' drilling, DST # 1, down 13 hrs-draw works repairs
6-14-12	3430' finish DST # 1, drill to 3460', DST # 2, stormy weather
6-15-12	3560' drilled to 3590', DST # 3
6-16-12	3740' drilling, RTD, Logs, P & A, plugging completed 11:15PM


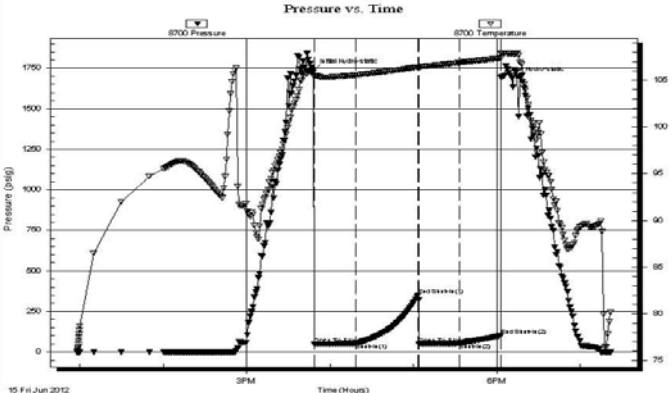
DST # 1 TEST SUMMARY


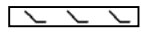











 TRIOBITE TESTING, INC.		DRILL STEM TEST REPORT																																					
TDI Inc 1310 Bison RD Hays KS, 67601 ATTN: Herb D.		31-14s-19w Ellis KS Harold #1 Job Ticket: 47194 DST#: 1 Test Start: 2012.06.13 @ 11:42:00																																					
GENERAL INFORMATION:																																							
Formation: KC "C"		Test Type: Conventional Bottom Hole (Initial)																																					
Deviated: No Whipstock: ft (KB)		Tester: Cody Bloedorn																																					
Time Tool Opened: 03:13:00		Unit No: 42																																					
Time Test Ended: 07:42:30		Reference Elevations: 2092.00 ft (KB)																																					
Interval: 3406.00 ft (KB) To 3430.00 ft (KB) (TVD)		2087.00 ft (CF)																																					
Total Depth: 3406.00 ft (KB) (TVD)		KB to GR/CF: 5.00 ft																																					
Hole Diameter: 7.88 inches		Hole Condition: Fair																																					
Serial #: 8700 Outside																																							
Press@RunDepth: 34.29 psig @ 3407.00 ft (KB)		Capacity: 8000.00 psig																																					
Start Date: 2012.06.13		End Date: 2012.06.14																																					
Start Time: 11:42:05		End Time: 07:42:29																																					
		Time On Btm: 2012.06.14 @ 03:12:00																																					
		Time Off Btm: 2012.06.14 @ 05:58:00																																					
TEST COMMENT: 30 - IF- 3 1/2" Blow 45 - IS- No blow back 45 - FF- No blow for 9 Min, then surface blow throughout. 45 - FSI- No blow back																																							
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DST # 2 TEST SUMMARY

	DRILL STEM TEST REPORT																																						
	TDI Inc 1310 Bison RD Hays KS, 67601 ATTN: Herb D.	31-14s-19w Ellis KS Harold #1 Job Ticket: 47195 DST#: 2 Test Start: 2012.06.14 @ 14:06:00																																					
GENERAL INFORMATION:																																							
Formation: KC "C-F" Deviated: No Whipstock: ft (KB) Time Tool Opened: 16:18:30 Time Test Ended: 22:01:30		Test Type: Conventional Bottom Hole (Reset) Tester: Cody Bloedorn Unit No: 42																																					
Interval: 3404.00 ft (KB) To 3460.00 ft (KB) (TVD) Total Depth: 3460.00 ft (KB) (TVD) Hole Diameter: 7.88 inches Hole Condition: Fair		Reference Elevations: 2092.00 ft (KB) 2087.00 ft (CF) KB to GR/CF: 5.00 ft																																					
Serial #: 8700 Outside Press@RunDepth: 45.78 psig @ 3441.00 ft (KB) Start Date: 2012.06.14 End Date: 2012.06.14 Start Time: 14:06:05 End Time: 22:01:29		Capacity: 8000.00 psig Last Calib.: 2012.06.14 Time On Btm: 2012.06.14 @ 16:18:00 Time Off Btm: 2012.06.14 @ 19:13:30																																					
TEST COMMENT: 45 - IF- Surface blow 45 - IS- No blow back 45 - FF- 1/4" blow 45 - FS- No blow back																																							
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* Recovery from multiple tests Trilobite Testing, Inc Ref. No: 47195 Printed: 2012.06.15 @ 03:20:34																																							

DST # 3 TEST SUMMARY

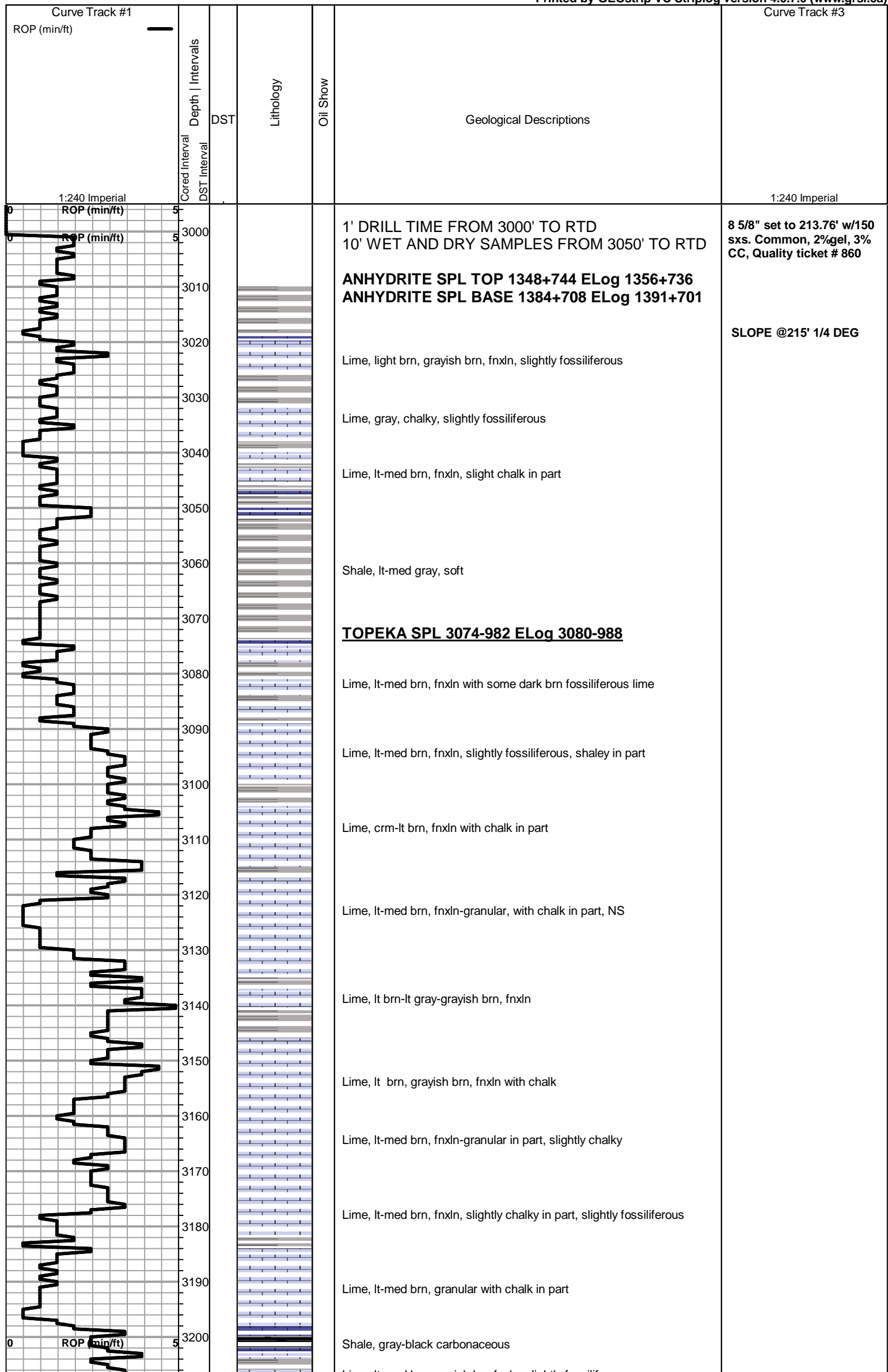
	DRILL STEM TEST REPORT																																						
	TDI Inc 1310 Bison RD Hays KS, 67601 ATTN: Herb D.	31-14s-19w Ellis KS Harold #1 Job Ticket: 47196 DST#: 3 Test Start: 2012.06.15 @ 12:58:00																																					
GENERAL INFORMATION:																																							
Formation: H,I,J Deviated: No Whipstock: ft (KB) Time Tool Opened: 15:48:30 Time Test Ended: 19:21:30		Test Type: Conventional Bottom Hole (Reset) Tester: Cody Bloedorn Unit No: 42																																					
Interval: 3503.00 ft (KB) To 3590.00 ft (KB) (TVD) Total Depth: 3590.00 ft (KB) (TVD) Hole Diameter: 7.88 inches Hole Condition: Fair		Reference Elevations: 2092.00 ft (KB) 2087.00 ft (CF) KB to GR/CF: 5.00 ft																																					
Serial #: 8700 Outside Press@RunDepth: 53.26 psig @ 3572.00 ft (KB) Start Date: 2012.06.15 End Date: 2012.06.15 Start Time: 12:58:05 End Time: 19:21:29		Capacity: 8000.00 psig Last Calib.: 2012.06.15 Time On Btm: 2012.06.15 @ 15:48:00 Time Off Btm: 2012.06.15 @ 18:03:00																																					
TEST COMMENT: 30 - IF- 1/4" Blow, died back to surface blow 45 - IS- No blow back 30 - FF- 1/4" blow 30 - FS- No blow back																																							
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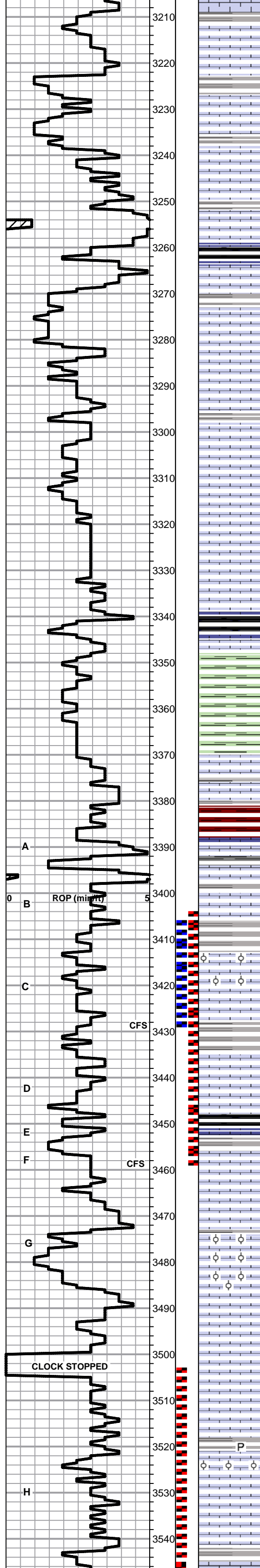
ROCK TYPES									
	Congl		Dol Lime		Lscongl		Carbon Sh		Shgy
	Dolprim		Lmst fw<7		shale, grn		shale, red		Shcol
	Dolsec		Lmst fw7>		shale, gry				

ACCESSORIES	
MINERAL	FOSSIL
P Pyrite	φ Oolite
• Varicolored chert	
△ Chert White	

OTHER SYMBOLS
DST
■ DST Int
■ DST alt

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





Lime, lt-med brn-grayish brn,fnxn, slightly fossiliferous

Lime, crm-lt brn, fnxn, very clean in appearance

Lime, crm-lt brn, fnxn with chalk in part

Lime, lt-med brn, fnxn with chalk in part, slightly fossiliferous

Lime, crm-lt brn, fnxn-vfxln with chalk in part

Shale, gray-black carbonaceous

Lime, lt-med brn-grayish brn, fnxn with chalk

Lime, lt-med brn-grayish brn, fnxn-granular with chalk, NS

Lime, lt-med brn, fnxn-granular with chalk in part, NS

Lime, lt-med brn, fnxn-granular with slight chalk, NS

Lime, crm-lt brn, fnxn-granular with chalk in part

Lime, lt-med brn, fnxn with chalk in part

HEEBNER SHALE SPL 3340-1248 ELog 3346-1254

Shale, black carbonaceous
Lime, med brn, fnxn

Shale, dove gray-lime green, soft blocky

TORONTO SPL 3371-1279 ELog 3372-1280

Lime, crm-lt brn, fn-vfxln NS

Shale, red wash

LKC SPL 3388-1296 ELog 3394-1302

Lime, off wht-lt brn, fn-vfxln with slight chalk in part

Lime, brn-grayish brn with gray mottling, fnxn, NS

① Lime, crm-lt brn, mostly fnxn with few pieces oolitic-oolmoldic with fossil fragments, with scattered staining with a very light odor, show of fresh oil residual in interoolitic porosity.

① Lime, lt brn, fnxn with oolitic-oolmoldic with fossil fragments, with lt scattered staining with fair odor

Shale, gray to black carbonaceous with some med gray shale forming soft mud balls.

Lime, white-crm, fnxn with microfossils in part, NS

Lime, white-crm, fn-vfxln

Lime, wht-crm-lt brn, oolitic-oolmoldic, NS, No staining

Lime, crm-off wht, fn-vfxln

Lime, crm-off white, fn-vfxln, hard

Lime, crm-off white, fn-vfxln

Shale, med gray, soft with pyrite clusters

① Lime, crm-offwhite, mostly fnxn with few pieces oolitic-oolmoldic with scattered to sat staining, NFO, very light, barely detectable odor.

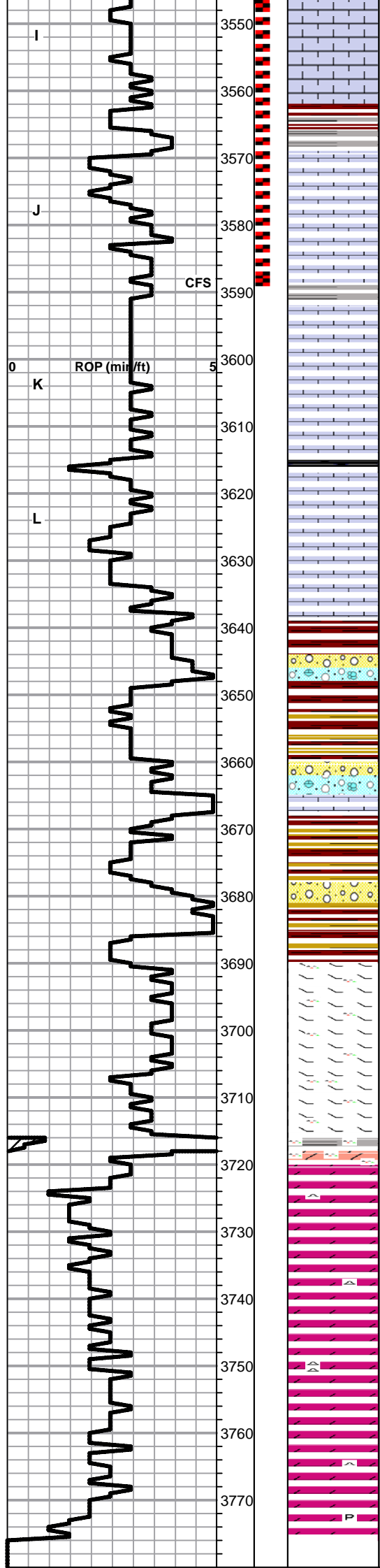
Lime, lt brn, fnxn

Shale, lt gray, soft blocky

DST # 1 3406'-3430'
SEE HEADER FOR TEST DETAILS. DRIVE CHAIN IN DRAW WORKS BROKE DURING TRIP IN WITH TOOL. DOWN 13 HOURS

DST # 2 3404'-3460'
SEE HEADER FOR TEST DETAILS. DELAYED PULLING TOOL BEFORE REACHING SURFACE FOR ONE HOUR DUE TO HIGH WINDS AND CLOUD TO GROUND LIGHTNING OVER RIG.

DST # 3 3503'-3590'
SEE HEADER FOR TEST DETAILS



Lime, crm-lt brn, mostly fnxln with one piece with scattered stain in poorly developed vuggy porosity

Shale, red wash

Lime, crm, fn-vfxln, NS or staining

Lime,lt-med brn, vfxln

Lime, crm, fnxln, slightly chalky

Lime, crm-lt brn, fn-vfxln

Shale, gray-black carbonaceous

Lime, lt brn, fn-vfxln

Lime, lt brn-lt gray, fn-vfxln, NS

BKC SPL 3639-1547 ELog 3642-1550

Shale, reddish brn, soft blocky with light red wash
Lime, clastic mix of lime types with red shale staining

Shale, reddish brn, soft to soft red wash

Shales, brns, grays, red, greens, soft with clastic mix of limes

Shale, lt red wash with mix of vari colored shales

Shales, vari colored, cherts, vari colored

Lime, dolomitic,lt brn, fnxln with orange cherts

Lime, dolomitic, lt brn, fnxln, hard, cherty, NS

Lime, dolomitic, lt brn, fnxln, cherty
Shales, reddish brn, vari colored, cherts vari colored

ARBUCKLE SPL 3720-1628 ELog 3724-1632

Dolomite, lt brn, mostly fnxln with intercrystalline porosity with flaky gilsonite, lt-sat staining with VMSFO with very light odor. Zone of staining very thin, zone deemed too low to be of economic value.

Dolomite, lt brn, fnxln-granular in part, mostly clean dolomite

Dolomite, ivory-lt brn, fnxln-granular, fn-med xln with few cxln

Dolomite, ivory-lt brn,fnxln-granular, fn-med xln with scattered clusters of well formed crystalline pyrite.

DETAILS

QUALITY OILWELL CEMENTING, INC.

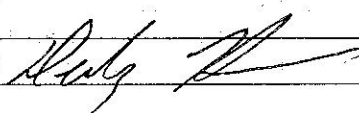
Federal Tax I.D.# 20-2886107

Phone 785-483-2025

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

No. 860

Cell 785-324-1041

Date	Sec.	Twp.	Range	County	State	On Location	Finish
6-9-12	31	14	19	ELLIS	KANSAS		6:05pm
Lease HAROLD	Well No. #1		Location ANTONINO-W 4 - 1/2 N - W INTO				
Contractor SOUTHWIND #1				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. 215'		Charge To T.D.I INC.				
Csg. 8 7/8"	Depth 213.		Street 1310 BISON RD.				
Tbg. Size	Depth		City HAYS State KS, 671601				
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 - 2cc				
Meas Line	Displace 12 bbl						
EQUIPMENT							
Pumptrk #15 No.	Cementer	NICK		Common 150			
Bulktrk #14 No.	Helper	BRIAN		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			
				Sand			
				Handling 158			
CEMENT DOES CIRCULATE ✓				Mileage			
FLOAT EQUIPMENT							
				Guide Shoe			
				Centralizer			
				Baskets			
				AFU Inserts			
THANK YOU! ✓				Float Shoe			
				Latch Down			
				Pumptrk Charge Surface			
				Mileage 14			
				Tax			
				Discount			
				Total Charge			
X Signature 							

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025

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

No. 685

Cell 785-324-1041

Date	6-16-12	Sec.	31	Twp.	14	Range	19	County	Ellis	State	KS	On Location		Finish	11:15 PM	
Lease	Harold	Well No.	C		Location		Antonio 4w 12d W. 1125									
Contractor	Southwest #1							Owner								
Type Job	Retard 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	7 7/8		T.D.		3725		Charge To								TDJ	
Csg.			Depth				Street									
Tbg. Size			Depth				City								State	
Tool			Depth				The above was done to satisfaction and supervision of owner agent or contractor.									
Cement Left in Csg.			Shoe Joint				Cement Amount Ordered								245 2 1/2 4 1/2 1 1/4 1/2 Flow	
Meas Line			Displace													

EQUIPMENT

Pumptrk	5	No.	Cementer	199	Helper		Common	199
Bulktrk		No.	Driver	404	Driver		Poz. Mix	98
Bulktrk	8	No.	Driver	Levy	Driver		Gel.	9

JOB SERVICES & REMARKS

Remarks:		Calcium		
Rat Hole	305K	Hulls		
Mouse Hole	155K	Salt		
Centralizers		Flowseal	61	
Baskets		Kol-Seal		
D/V or Port Collar		Mud CLR 48		
1st	3702	255K	CFL-117 or CD110 CAF 38	
2nd	1375	255K	Sand	
3rd	575	100K	Handling	254
4th	275	405K	Mileage	
5th	40	105K		

FLOAT EQUIPMENT

		Guide Shoe	
		Centralizer	
		Baskets	
		AFU Inserts	8 7/8 wooden Plug
		Float Shoe	
		Latch Down	
		Pumptrk Charge	plug
		Mileage	6

X Signature	[Signature]	Tax	
		Discount	
		Total Charge	