	Company: Address:	OPERATOR TDI, INC. 1310 BISON ROAD HAYS, KANSAS 67601-9696			
	Contact Geologist: Contact Phone Nbr: Well Name: Location: API: Pool:	TOM DENNING 785-628-2593 VONLINTEL # 1 NW NE SE SE SEC.28-T14S-F 15-051-26,865-00-00	16W Field:	DREILING	
	State:	KANSAS	Country:	USA	
	Well Name:	TDI, Inc. Scale 1:240 Imperial VONLINTEL # 1	C		
	Surface Location: Bottom Location: API: License Number:	NW NE SE SE SEC.28-T14S-F 15-051-26,865-00-00 4787	16W		
	Spud Date: Region:	3/15/2017 ELLIS COUNTY	Time:	12:00 AM	
	Drilling Completed: Surface Coordinates: Bottom Hole Coordinates: Ground Elevation:	3/20/2017 1050' FSL & 370' FEL 1876.00ft	Time:	1:53 AM	
	K.B. Elevation: Logged Interval: Total Depth: Formation: Drilling Fluid Type:	1886.00ft 0.00ft 3425.00ft ARBUCKLE CHEMICAL/FRESH WATER GI		0.00ft	
ĺ		SURFACE CO-ORDINAT	TES		
	Well Type:	Vertical			

Well Type:	Vertical
Longitude:	-99.096968
Latitude:	38.8012913
N/S Co-ord:	1050' FSL
E/W Co-ord:	370' FEL

LOGGED BY



Company: Address: SOLUTIONS CONSULTING, INC. 108 W 35TH HAYS, KS 67601

Phone Nbr: (785) 639-1337 Logged By: GEÓLOGIST

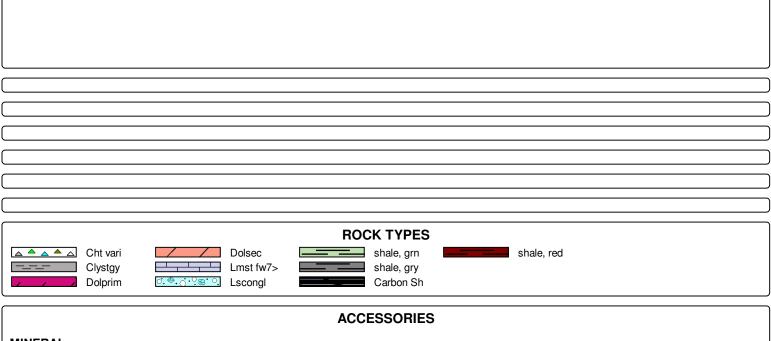
Name:

HERB DEINES

- 33 7				
	CONTRACTOR			
Contractor:	SOUTHWIND DRILLING INC.			
	SOOTHING BILLEING ING.			
Rig #:	1			
Rig Type:	MUD ROTARY			
		Time	10.00 414	
Spud Date:	3/15/2017	Time:	12:00 AM	
TD Date:	3/20/2017	Time:	1:53 AM	
	3/20/2017			

Rig	Release: 3/20/2017	Tim	ne: 2:15 PM					
ELEVATIONS								
	levation: 1886.00ft	Ground Elevatio	on: 1876.00ft					
K.B. to	Ground: 10.00ft							
		NOTES						
			ED IN A NUMBER OF POORLY					
OFFSET WELLS AND	HAD CONSIDERABLE II		TS AND REWORKED DOLOMITE. NO					
OFEN HOLE LOGS OF	DHILL STEIM TESTS W	VERE NAM ON THIS WELL.						
	/ONLINTEL # 1 NW NE SE SE	ROHLEDER # 3 NE SW NW SW	VONLINTEL # 1 E2 SW SE SE					
	SEC.28-14S-16W	SEC.27-14-16W	SEC.28-14-16W					
	L886'KB	KB 1867'	KB 1897'					
-	1000 KB	KD 1007	KB 1897					
FORMATION	LOG TOPS	LOG TOPS	LOG TOPS					
	, <u>, , , , , , , , , , , , , , , , , , </u>							
Anhydrite	989 +897	+ 895	+ 890					
B-Anhydrite	1026 +860	+ 859	+ 852					
Торека	2879 - 993	- 980	- 996					
Heebner Sh.	3098-1212	-1199	-1216					
Toronto	3118-1232	-1219	-1234					
LKC	3146-1260	-1247	-1268					
ВКС	3375-1489	-1476	-1493					
	ckle 3404-1518							
Arbuckle	3420-1534	-1491	-1511					
RTD	3425-1539	-1633	-1683					
	SUMMARY OF DAILY ACTIVITY							
3-15-17 S	3-15-17 Spud 3:30 PM, set 8 5/8" surface casing to 224' w/ 150 sxs Common							
	-	hrs, slope 1/2 degree.	• w/ 150 3x3 common					
	274, drilling							
	8032', drilling							

3-20-17 3425', CFS 3411', CFS 3425', decision to P&A, LDDP, P&A, RD

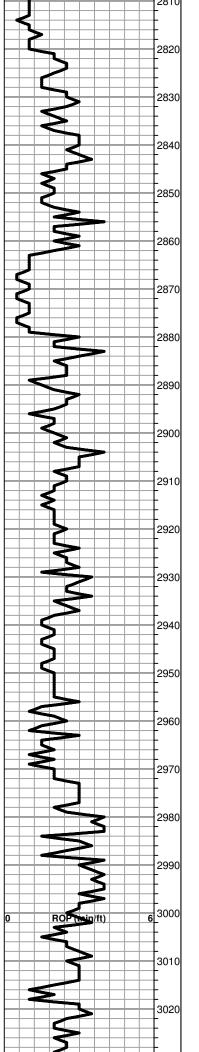


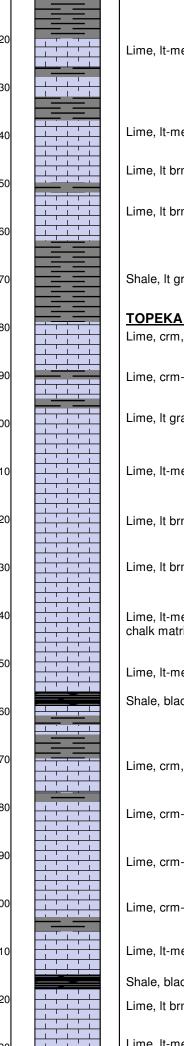
MINERAL

▲ Chert, dark
P Pyrite

Printed by GEOstrip VC Striplog version 4.0.8.15 (www.grsi.ca)

	· · · ·		-	Printed by GEOstrip VC Striplog	
Curve Track #1			1		Curve Track #3
ROP (min/ft)			1		
	Depth Intervals	Lithology	Oil Show	Geological Descriptions	
1:240 Imperial	Cored Interval DST Interval				1:240 Imperial
0 ROP (min/ft) 6	- - 2750			BEGIN 1' DRILL TIME FROM 2750' TO RTD BEGIN 10' WET AND DRY SAMPLES FROM 2800' TO RTD	8 5/8" SURFACE CASING SET TO 224' W/ 150 SXS COMMON 2% GEL 3%CC
	- - 2760 -			ANHYDRITE SAMPLE TOP 989+897 ANHYDRITE SAMPLE BASE 1026+860	SLOPE 1/2 DEGREE @224'
	2770 				
	2780				
	2790 - - 2800				
				Shale, It-med gray, soft mud with sticky clumping	





Lime, It-med brn, fnxln

Lime, It-med brn, fnxln, slightly fossiliferous

Lime, It brn, fnxln, soft bedded chalk

Lime, It brn-It grayish brn, fnxln

Shale, It gray, soft with sticky clumping

TOPEKA SPL TOP 2879-993 Lime, crm, fnxln

Lime, crm-lt brn, fnxln with bedded chalk

Lime, It grayish brn, fn-vfxln

Lime, It-med brn-It grayish brn, fn-vfxln, slight bedded chalk

Lime, It brn-It gray, fnxIn, slight bedded chalk

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

Lime, lt-med brn, fnxln-granular in part, bedded chalk in chalk matrix, soft on crush, slightly fossiliferous

Lime, It-med brn, soft chalky matrix with bedded chalk

Shale, black carbonaceous, blocky, fissile

Lime, crm, fn-micro xIn, lithographic

Lime, crm-lt brn, fn-micro xln

Lime, crm-lt brn, fn-micro xln, slight bed chalk

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

Lime, It-med brn, fn-vfxIn, slightly fossiliferous

Shale, black carbonaceous, blocky, fissile

Lime, It brn-It gray, fn-vfxIn, slightly fossiliferous

Lime It-med brn fnxln with some chalky matrix slightly

