**OPERATOR** 

Company: TDI, INC.

Address: 1310 BISON ROAD

HAYS, KANSAS 67601

Contact Geologist: TOM DENNING Contact Phone Nbr: 785-628-2593 Well Name: MARSHA # 2

Location: S2 NW NW SW, SEC.21T15S-R18W

API: 15-051-26,727-00-00

Pool: Field: SCHOENCHEN WEST

State: KANSAS Country: USA



Scale 1:240 Imperial

Well Name: MARSHA # 2

Surface Location: S2 NW NW SW, SEC.21T15S-R18W

Bottom Location:

API: 15-051-26,727-00-00

License Number: 4787

Spud Date: 9/17/2014 Time: 12:30 PM

Region: ELLIS COUNTY

Drilling Completed: 9/22/2014 Time: 4:00 AM

Surface Coordinates: 2300' FSL & 330' FWL

**Bottom Hole Coordinates:** 

Ground Elevation: 2003.00ft K.B. Elevation: 2013.00ft

Logged Interval: 2850.00ft To: 3700.00ft

Total Depth: 3700.00ft Formation: ARBUCKLE

Drilling Fluid Type: CHEMICAL/FRESH WATER GEL

#### SURFACE CO-ORDINATES

Well Type: Vertical
Longitude: -99.3368997
Latitude: 38.7322504
N/S Co-ord: 2300' FSL
E/W Co-ord: 330' 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: 9/17/2014 Time: 12:30 PM

Rig Release: 9/22/2014 Time: 11:00 PM

#### **ELEVATIONS**

K.B. Elevation: 2013.00ft Ground Elevation: 2003.00ft

K.B. to Ground: 10.00ft

## **NOTES**

RECOMMENDATION TO PLUG AND ABANDON WELL BASED ON LACK OF SHOWS AND LOG ANALYSIS

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

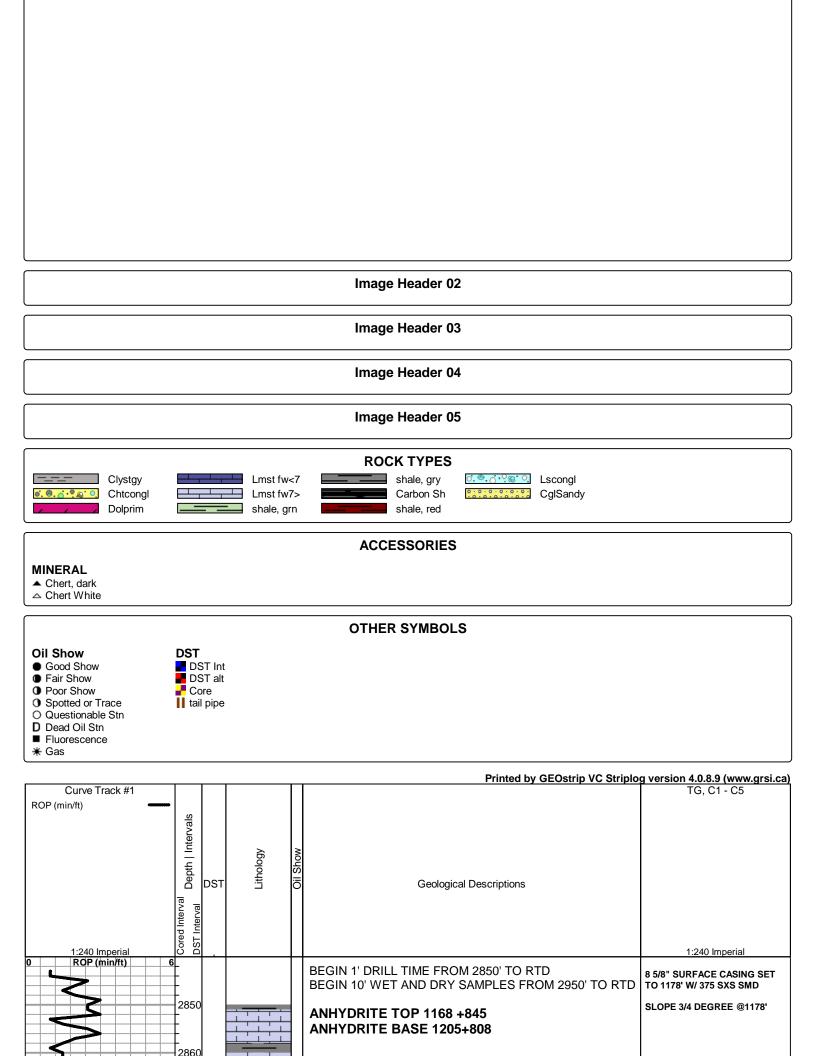
THERE WERE NO DRILL STEM TESTS RAN IN THIS WELL

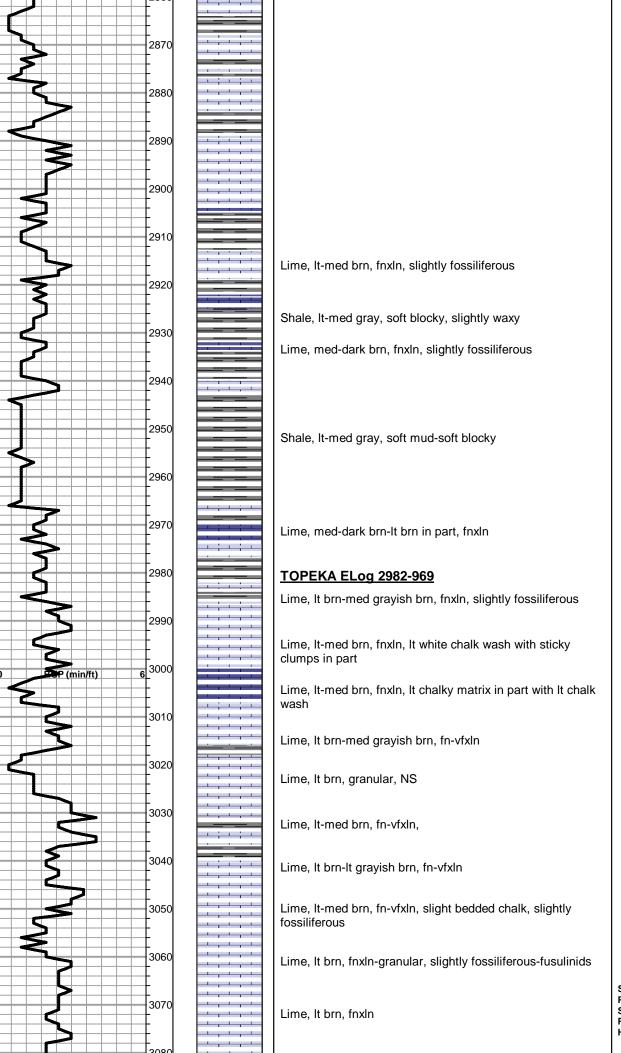
## FORMATION TOPS SUMMARY

S2 SE	ARSHA # 2 2 NW NW SW EC.21-15S-18W 003'GL 2013'KB	ROTH # 1 SW SW NW SEC.21-15-18W KB 2007'	ALTA # 1 SE NW SW NW SEC.21-15-18W KB 1993'
FORMATION	LOG TOPS	LOG TOPS	LOG TOPS
Anhydrite	1168+845		+ 846
B-Anhydrite	1205+808		+ 813
Topeka	2982 - 969		- 960
Heebner Sh.	3250-1237	-1239	-1237
Toronto	3271-1258	-1263	-1262
LKC	3298-1285	-1289	-1286
ВКС	3525-1512	-1515	-1510
Arbuckle	3626-1613	-1613	-1589
RTD	3700-1687		-1679

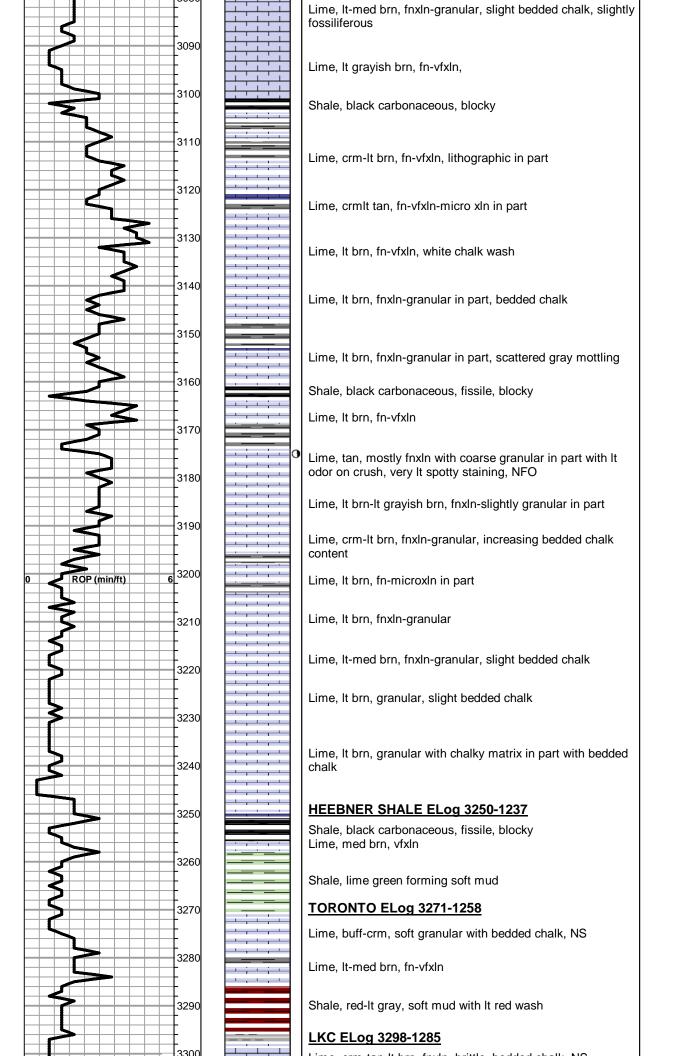
# **SUMMARY OF DAILY ACTIVITY**

9-17-14	RU, spud 12:30 PM
9-18-14	1178', set 8 5/8" surface casing to 1178' w/ 375 sxs SMD, slope 3/4
	degree, plug down 12:45PM, WOC 12 hrs
9-19-14	1424', drill plug 12:45 AM
9-20-14	2593', drilling, displaced 2889'-2904'
9-21-14	3180', drilling
9-22-14	3700', drilling, RTD 3700' @ 4:00AM, short trip, TOWB, logs, P&A





STARTED LOSING PUMP PRESSURE WITH POOR SAMPLES. PULLED DRILL PIPE AT 3085' TO LOOK FOR HOLE IN PIPE



Lime, crm-tan-it brn, fixin, brittle, bedded chalk, NS 3310 Lime, It-med brn, fn-vfxln В 3320 Lime, crm-tan, mostly fnxln, few chips oolitic/oomoldic with trace of spotty staining, No Odor, NFO C 3330 Lime, crm-tan, fnxln Lime, crm-tan, fnxln, few chips oolitic w fossil fragments, 3340 very It odor with spotty staining, increasing chalk with depth D Lime, crm-tan, fnxln, bedded chalk 3350 Shale, black carbonaceous, blocky 3360 Ε Lime, It gray, fnxln F Lime, crm-tan, fnxln, soft on crush, lot of bedded chalk in 3370 chalk matrix, NS 3380 Lime, crm-tan, fn-micro xln, slight bedded chalk, NS Chert, It gray with white chert in part G 3390 Lime, crm-lt brn, fn-micro xln, slight bedded chalk 3400 Lime, crm-tan-lt brn, fn-micro xln, slight bedded chalk 3410 Lime, It-med brn-med grayish brn, fnxln 3420 3430 Lime, crm-tan, fnxln, spotty stain in fine interxln porosity with fine vuggy development, No Odor, NFO 3440 Lime, crm-lt brn, fn-micro xln, slight bedded chalk 3450 Lime, crm-tan, fn-vfxln, bedded chalk, few chips, It spotty staining, No Odor, NFO, appears thinly developed 3460 Lime, It-med brn, fn-vfxln, slight bedded chalk 3470 Lime, It-med brn, fn-vfxln 3480 Lime, crm-tan, fn-vfxln, moderate bedded chalk 3490 Lime, crm, fnxln, moderate bedded chalk 3500 Lime, crm-tan-lt brn, fn-vfxln 3510 Lime, crm, fn-vfxln, slight bedded chalk

