

OPERATOR

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

Contact Geologist: TOM DENNING
Contact Phone Nbr: 785-628-2593
Well Name: MUNJOR EAST # 1
Location: W2 SE SE NW, Sec.30-T14S-R17W
API: 15-051-26,752-00-00
Pool:
State: KANSAS

Field: UNNAMED
Country: USA



Scale 1:240 Imperial

Well Name: MUNJOR EAST # 1
Surface Location: W2 SE SE NW, Sec.30-T14S-R17W
Bottom Location:
API: 15-051-26,752-00-00
License Number: 4787
Spud Date: 11/1/2014 Time: 1:45 PM
Region: ELLIS COUNTY
Drilling Completed: 11/6/2014 Time: 4:35 PM
Surface Coordinates: 2310' FNL & 2300' FWL
Bottom Hole Coordinates:
Ground Elevation: 1937.00ft
K.B. Elevation: 1947.00ft
Logged Interval: 2800.00ft To: 3625.00ft
Total Depth: 3625.00ft
Formation: LANSING-KANSAS CITY
Drilling Fluid Type: CHEMICAL/FRESH WATER GEL

SURFACE CO-ORDINATES

Well Type: Vertical
Longitude: -99.2542593
Latitude: 38.8066486
N/S Co-ord: 2310' FNL
E/W Co-ord: 2300' 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: 11/1/2014
TD Date: 11/6/2014

Time: 1:45 PM
Time: 4:35 PM

ELEVATIONS

K.B. Elevation: 1947.00ft
K.B. to Ground: 10.00ft

Ground Elevation: 1937.00ft

NOTES

RECOMMENDATION TO PLUG AND ABANDON WELL BASED ON LOW STRUCTURE AND NEGATIVE RESULTS OF DST # 1

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

DRILL STEM TESTING BY TRILOBITE TESTING INC: ONE (1) CONVENTIONAL TEST

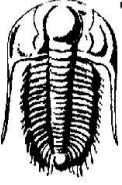
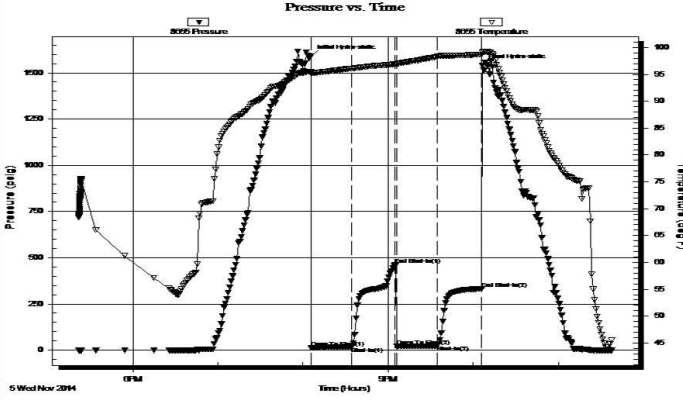
FORMATION TOPS COMPARISON

	MUNJOR EAST # 1 W2 SE SE NW SEC.30-14S-17W 1937'GL 1947'KB	GRABBE # 1 NW NE SEC.30-14-17W KB 1947'	COPPER # 1-30 NE NW SW SE SEC.30-14-17W KB 1942'
<u>FORMATION</u>	<u>LOG TOPS</u>	<u>LOG TOPS</u>	<u>LOG TOPS</u>
Anhydrite	1130+ 817	+ 815	+ 822
B-Anhydrite	1170+ 777	+ 778	+ 786
Topeka	2939- 992	- 979	- 970
Heebner Shale	3201-1254	-1243	-1230
Toronto	3220-1273	-1263	-1248
LKC	3248-1301	-1289	-1279
BKC	3475-1528	-1511	-1498
Arbuckle	3548-1601	-1580	-1581
RTD	3625-1678	-1628	-1668

SUMMARY OF DAILY ACTIVITY

11-01-14 RU, spud 1:45 PM, drilling
 11-02-14 1130', set 8 5/8" surface casing to 1130' w/ 375sxs SMD, slope 3/4 degree, plug down 2:30 PM, WOC 12 hours
 11-03-14 1310', drill plug 2:30 AM
 11-04-14 2575', drilling, displaced 2871' to 2885'
 11-05-14 3180', CFS 3180', short trip to collars, CFS 3310', DST # 1 3258' to 3310' "C" and "D" LKC
 11-06-14 3410', RTD 3625' @4:35 PM, CCH, rig repair, TOWB
 11-07-14 3625', logging, P&A

DST # 1 TEST SUMMARY

 TRILOBITE TESTING, INC.	DRILL STEM TEST REPORT																																														
TDI 1310 Bison Rd Hays, KS 67601 ATTN: Herb Deines		30-14S-17W Ellis, KS Munjor East #1 Job Ticket: 58405 DST#: 1 Test Start: 2014.11.05 @ 17:21:53																																													
GENERAL INFORMATION:																																															
Formation: LKC "C&D" Deviated: No Whipstock: ft (KB) Time Tool Opened: 20:05:53 Time Test Ended: 23:37:53 Interval: 3258.00 ft (KB) To 3310.00 ft (KB) (TVD) Total Depth: 3310.00 ft (KB) (TVD) Hole Diameter: 7.88 inches Hole Condition: Fair		Test Type: Conventional Bottom Hole (Initial) Tester: Brannan Lonsdale Unit No: 62 Reference Elevations: 1947.00 ft (KB) 1937.00 ft (CF) KB to GR/CF: 10.00 ft																																													
Serial #: 8655 Outside Press@RunDepth: 24.08 psig @ 3259.00 ft (KB) Start Date: 2014.11.05 End Date: 2014.11.05 Start Time: 17:21:54 End Time: 23:37:53 Capacity: 8000.00 psig Last Calib.: 2014.11.05 Time On Btm: 2014.11.05 @ 20:05:23 Time Off Btm: 2014.11.05 @ 22:06:23																																															
TEST COMMENT: 30- IF- Slow ly built to 1" 30- IS- No blow 30- FF- No blow 30- FS- No blow																																															
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Congl

Chtcong

Dolprim

Lmst fw<7

Lmst fw>7

shale, grn

shale, gry

Carbon Sh

shale, red

Shcol

Lscong

ACCESSORIES

MINERAL

FOSSIL

▲ Chert, dark

△ Chert White

✦ Oomoldic

OTHER SYMBOLS

Oil Show

DST

● Good Show

● Fair Show

● Poor Show

○ Spotted or Trace

○ Questionable Strn

D Dead Oil Strn

■ Fluorescence

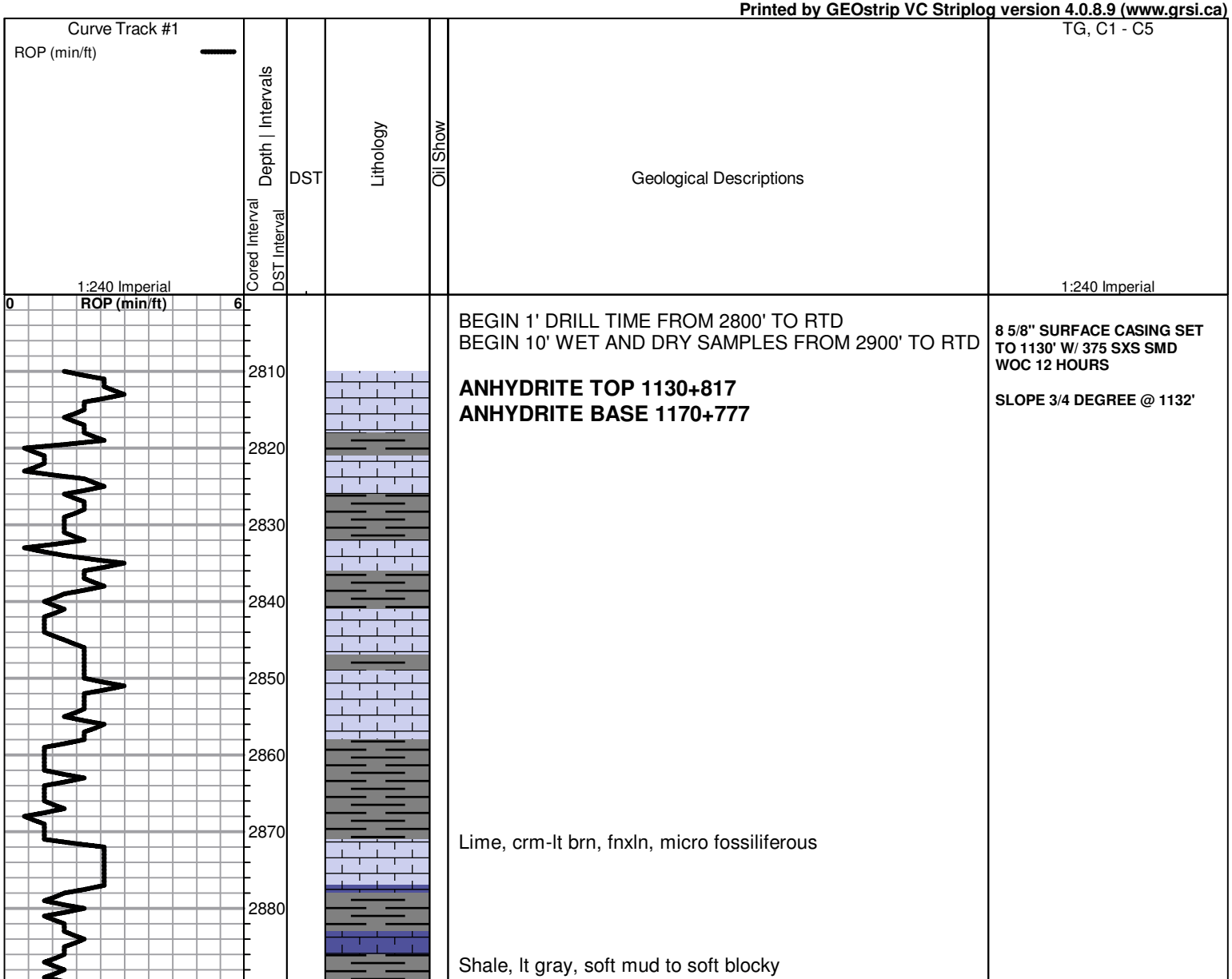
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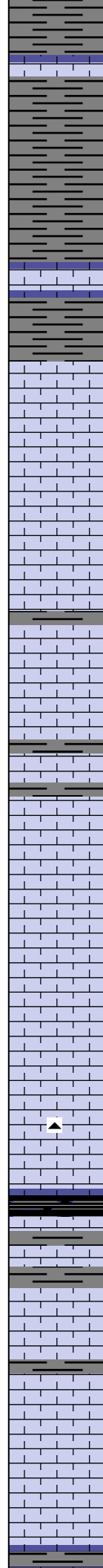
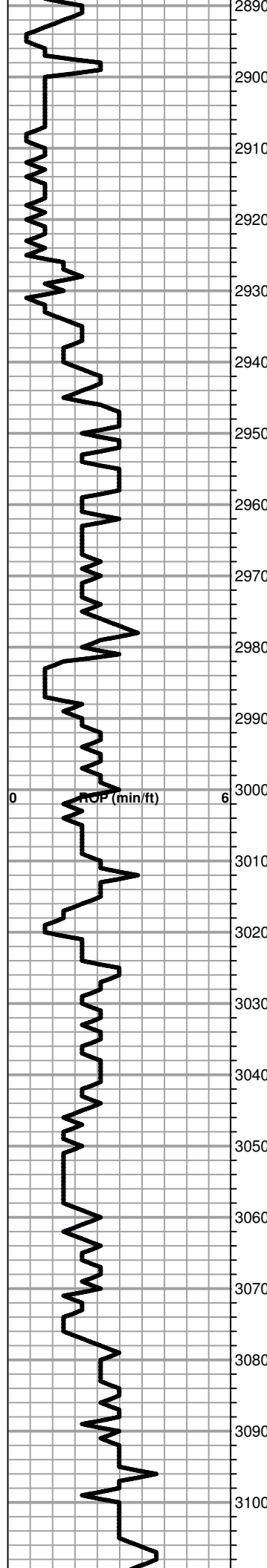
■ DST Int

■ DST alt

■ Core

■ tail pipe





Lime, lt-med brn, fnxln

Shale, dove gray soft mud to med gray, soft blocky

Lime, crm-lt brn, fnxln

TOPEKA ELog 2939-992

Lime, lt-med brn, fnxln

Lime, lt brn-lt gray, fnxln, slight chalky matrix in part

Lime, lt brn-lt gray, fnxln-granular, bedded chalk with sticky clumps in part

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

Lime, lt brn-med gray, fnxln

Lime, lt-med brn, granular, NS

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

Lime, lt brn-lt grayish brn, fnxln

Lime, lt-med brn-med grayish brn, fnxln-granular in part

Lime, lt-med brn, fnxln-granular with lt chalk matrix

Lime, lt brn-med grayish brn, fnxln

Lime, lt-med brn, granular with increasing bedded chalk

Lime, lt-med brn, granular, bed chalk

Shale, black carbonaceous, blocky

Lime, crm-lt brn, fnxln, sublithographic

Lime, crm-lt brn, fnxln

Lime, lt brn, fnxln, slight bedded chalk

Lime, lt brn, fn-vfxln

Lime, lt brn, fnxln

