OPERATOR

Company: TDI, INC

1310 BISON ROAD Address: HAYS, KANSAS 67601

TOM DENNING Contact Geologist: Contact Phone Nbr: 785-628-2593 Well Name: BICE # 1

> Location: E2 NE NW SE Sec.22-10s-17w API: 15-163-24,187-00-00 Pool: **WILDCAT** Field: UNNAMED

KANSAS Country: State: USA



Scale 1:240 Imperial

Well Name: BICE #1

Surface Location: E2 NE NW SE Sec.22-10s-17w

Bottom Location: API:

15-163-24,187-00-00

License Number: 4787 Spud Date: 4/14/2014 Time: 3:00 PM Region: **ROOKS COUNTY Drilling Completed:** 4/19/2014 Time: 6:40 PM

Surface Coordinates: 2310' FSL & 1465' FEL

Bottom Hole Coordinates:

Ground Elevation: 2030.00ft K.B. Elevation: 2040.00ft

2900.00ft 3750.00ft Logged Interval: To:

Total Depth: 3750.00ft

Formation: LANSING-KANSAS CITY **Drilling Fluid Type:** CHEMCIAL/FRESH WATER GEL

SURFACE CO-ORDINATES

Well Type: Vertical Longitude: -99.2005551 Latitude: 39.1679882

N/S Co-ord: 2310' FSL E/W Co-ord: 1465' FEL

LOGGED BY



SOLUTIONS CONSULTING, INC. Company:

Address: 108 W 35TH

HAYS, KS 67601

Phone Nbr: (785) 639-1337

Logged By: **GEOLOGIST** Name: HERB DEINES

CONTRACTOR

SOUTHWIND DRILLING, INC. Contractor:

Rig #:

MUD ROTARY

Rig Type: Spud Date: 4/14/2014 Time: 3:00 PM 4/19/2014 TD Date: Time: 6:40 PM Rig Release: 4/20/2014 1:00 PM Time:

ELEVATIONS

Ground Elevation: K.B. Elevation: 2040.00ft 2030.00ft

K.B. to Ground: 10.00ft

NOTES

RECOMMENDATION TO RUN PRODUCTION CASING BASED ON FAVORABLE STRUCTURE AND RESULTS OF DST # 2

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

DRILL STEM TESTING BY TRILOBITE TESTING INC: TWO (2) CONVENTIONAL TESTS

FORMATION COMPARISON CHART AND CHRONLOGY OF DAILY ACTIVITY

BICE # 1	SCHRANDT #1	MARSTON A 1-27
E2 NE NW SE	100' S of E2 SE SW	SW NE NE NE
SEC.22-10S-17W	SEC.22-10-17W	SEC.27-10-17W
2030'GL 2040'KB	KB 2077'	KB 2073'

<u>FORMATION</u>	LOG TOPS	LOG TOPS	LOG TOPS

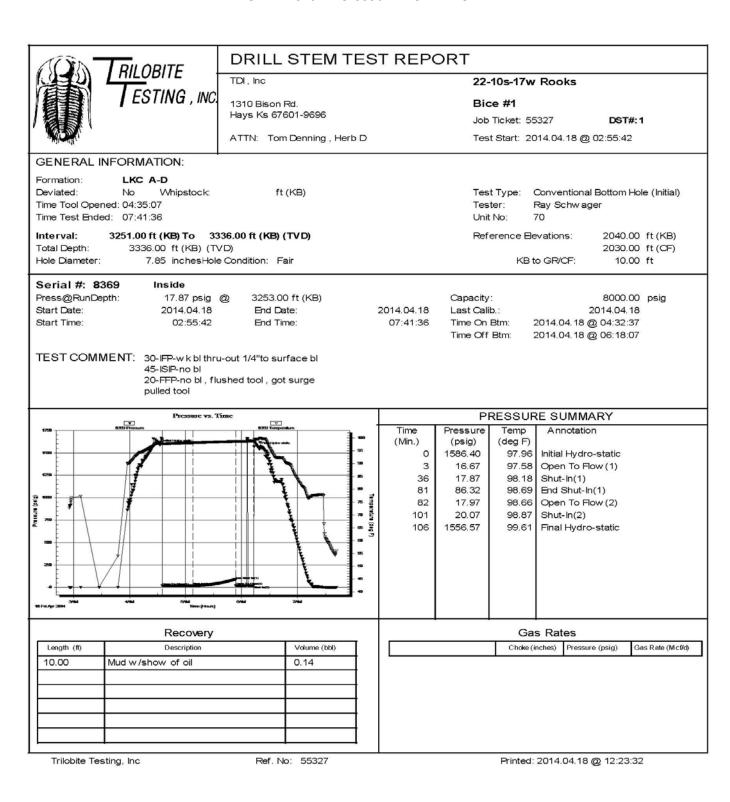
Anhydrite 1296 +744 + 753 +763 **B-Anhydrite** 1329 +711 + 716 +725 Topeka 2993 -953 - 958 - 948

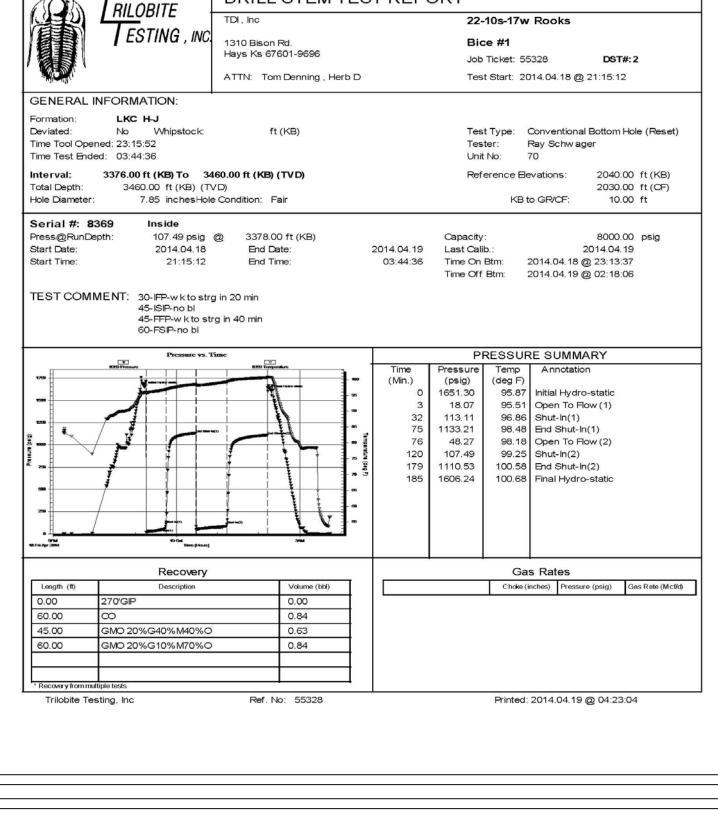
Heebner Sh.	3214-1174	-1181	-1170
Toronto	3238-1198	-1203	-1192
LKC	3258-1218	-1223	-1213
ВКС	3495-1455	-1458	-1457
Conglomerate	3538-1498	-1513	-1499
Simpson Shale	3625-1585	-1583	-1573
Simpson Dol.	3634-1594	-1592	-1583
Arbuckle	3660-1620	-1615	-1611
RTD	3750-1710	-1658	-1652

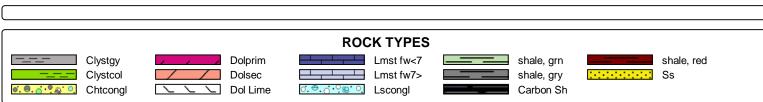
SUMMARY OF DAILY ACTIVITY

4-14-14	RU, Spud 3:00 PM, set 8 5/8" surface casing to 223' w/ 160 sxs
	Common 2%Gel 3%CC, slope 3/4 degree, plug down 10:15PM
4-15-14	250', drilling, drilled plug 6:15AM
4-16-14	2150', drilling
4-17-14	2890', drilling, displaced 2609' to 2627', CFS 3336', short trip, TOWB
4-18-14	3336', DST # 1 3251' to 3336' "A"-"D" LKC, TIWB, CFS 3460', DST # 2
	3376' – 3460' "H" – "J" LKC
4-19-14	3486', RTD 3750'@3:40PM, CCH, TOWB, start logs
4-20-14	3750', finish logs, TIWB, LDDP, run 5 ½" production casing, RD

DST # 1 3251' TO 3336' LKC "A" TO "D"

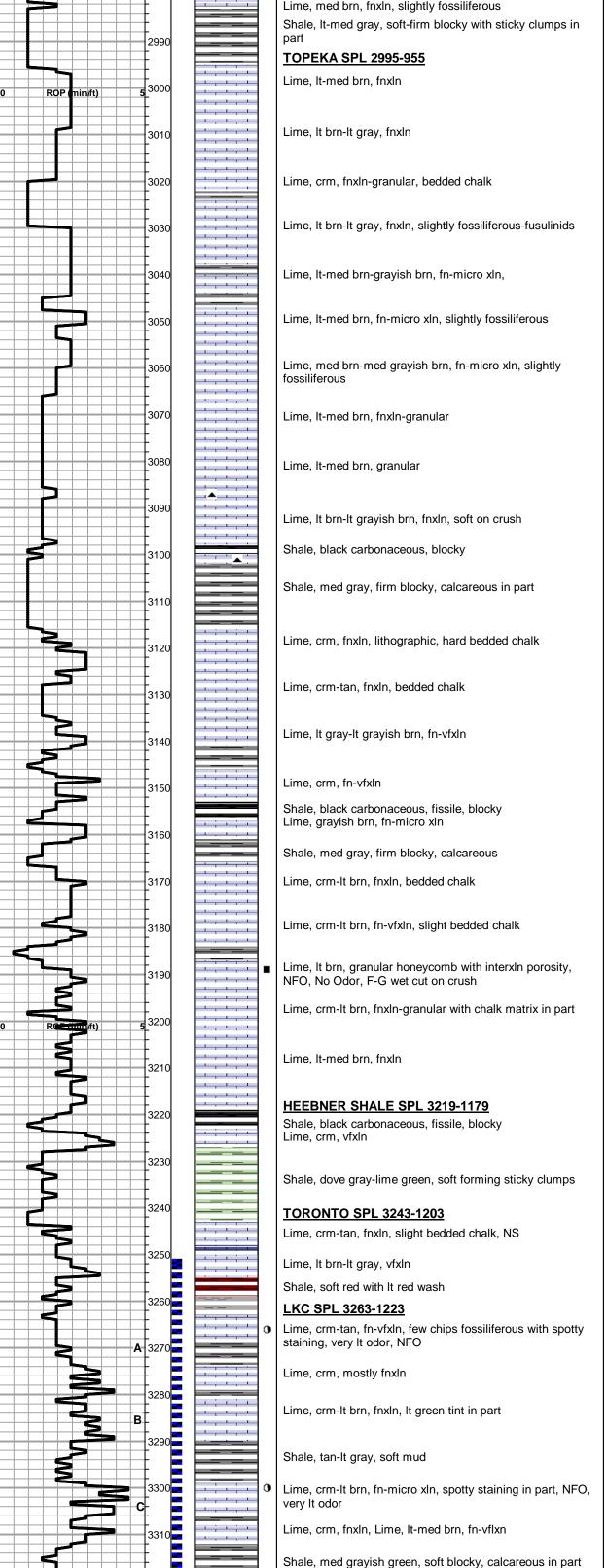






ACCESSORIES

Printed by GEOstrip VC Striplog version 4.0.7.0 (www.grsi.ca) Curve Track #1 Curve Track #3 ROP (min/ft) Depth | Intervals Show ō DST Geological Descriptions ed Interval Core 1:240 Imperial ROP (min/ft) 1:240 Imperial 8 5/8" SURFACE CASING SET TO 223' W/160 SXS COMMON 2%GEL 2900 BEGIN 1' DRILL TIME FROM 2900' TO RTD BEGIN 10' WET AND DRY SAMPLES FROM 2950' TO 3%CC RTD SLOPE 3/4 DEGREE @ 223' 2910 **ANHYDRITE TOP ELog 1296+744 ANHYDRITE BASE ELog 1329+711** 2920 2930 Shale, It gray, soft forming sticky clumps Lime, It brn-It gray, fnxln, fossiliferous 2940 Lime, It brn, fnxln 2950 2960 Shale, It-med gray, soft blocky 2970



DST # 1 3251' TO 3336' "A" TO "D" LKC SEE HEADER FOR TEST SUMMARY

