OPERATOR

Company: TDI, INC.

Address: 1310 BISON ROAD HAYS, KANSAS 67601

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

Location: W2 NE SW NE, Sec.26-11s-20w API: 15-051-26,692-00-00 Pool: WILDCAT Field: UNNAMED

State: KANSAS Field: UNNA Country: USA



Scale 1:240 Imperial

Time:

Time:

4:00 PM

11:31 AM

Well Name: CONELL # 1

Surface Location: W2 NE SW NE, Sec.26-11s-20w

Bottom Location: API:

15-051-26,692-00-00

License Number: 4787
Spud Date: 5/8/2014
Region: ELLIS COUNTY

Drilling Completed: 5/13/2014 Surface Coordinates: 1650' FNL & 1750' FEL

Bottom Hole Coordinates:

Ground Elevation: 2086.00ft

K.B. Elevation: 2096.00ft Logged Interval: 3000.00ft To: 3800.00ft

Total Depth: 3800.00ft Formation: ARBUCKLE

Drilling Fluid Type: CHEMICAL/FRESH WATER GEL

SURFACE CO-ORDINATES

Well Type: Vertical
Longitude: -99.5065246 Latitude: 39.0693509

N/S Co-ord: 1650' FNL E/W Co-ord: 1750' FEL

LOGGED BY



Company: SOLUTIONS CONSULTING, INC.

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:
 5/8/2014
 Time:
 4:00 PM

 TD Date:
 5/13/2014
 Time:
 11:31 AM

 Rig Release:
 5/15/2014
 Time:
 4:15 AM

ELEVATIONS

K.B. Elevation: 2096.00ft Ground Elevation: 2086.00ft

K.B. to Ground: 10.00ft

NOTES

RECOMMENDATION TO RUN CASING BASED ON LOG ANALYSIS AND POSITIVE RESULTS OF DST # 1

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

DRILL STEM TESTING BY TRILOBITE TESTING INC: THREE (3) STRADDLE TESTS

FORMATION TOPS COMPARISON AND CHRONOLOGY OF DAILY ACTIVITY

CONELL # 1 D. CONELL # 1
W2 NE SW NE NE NE NE E2 E2 E2
SEC.26-11S-20W SEC.26-11-20W SEC.26-11-20W

2086'GL 2096'KB KB 2117' KB 2077'

FORMATION LOG TOPS LOG TOPS

 Anhydrite
 1488 +608
 +608
 +617

 B-Anhydrite
 1528 +568
 +569
 +571

горека	3134-1038	-1033	-1027
Heebner Sh.	3356-1260	-1254	-1249
Toronto	3379-1283	-1277	-1271
LKC	3397-1301	-1295	-1288
ВКС	3622-1526	-1521	-1511
Arbuckle	3708-1612	-1601	-1598
RTD	3800-1704	-1618	-1628

SUMMARY OF DAILY ACTIVITY

RU, Spud 4:00 PM, set 8 5/8" surface casing to 223' w/ 150 sxs 5-08-14 Common 2%Gel 3%CC, slope 3/4 degree, plug down 11:15 PM

5-09-14 224', drill plug 7:15 AM

2010', drilling 5-10-14

2750', drilling, displaced 2967' to 2985' 5-11-14

5-12-14 3315', drilling

3705', drilling, CFS 3710', CFS 3718', RTD 3800' @11:31AM, short 5-13-14 trip, TOWB, slope @3800' ¾ degree, logs, straddle DST # 1 3542'-

3595' "I-J" LKC

5-14-14 3800', straddle DST #2 3675'-3722' Arbuckle- Misrun, straddle DST #3 3600'-3722', Arbuckle, TIWB, LDDP, start running production

casing

5-15-14 3800', finish running production casing and cementing

DST # 1 STRADDLE TEST 3542' TO 3595' BOTTOM PACKER HELD



DRILL STEM TEST REPORT

TDI, Inc 26-11s-20w Ellis

1310 Bison Rd Hays KS, 67601

ATTN: Herb Deines

Job Ticket: 54043 DST#: 1 Test Start: 2014.05.13 @ 20:22:00

Conell #1

GENERAL INFORMATION:

Formation: LKC "I,J"

Whipstock: Deviated: No

ft (KB)

Time Tool Opened: 23:11:15 Time Test Ended: 04:01:45

3542.00 ft (KB) To 3595.00 ft (KB) (TVD) Interval:

Total Depth: 3798.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair Test Type: Conventional Straddle (Initial)

Tester: Cody Bloedorn

Unit No:

Reference Bevations: 2096.00 ft (KB)

2088.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8648 Inside

Press@RunDepth: 51.07 psig @ 3580.00 ft (KB) Capacity: 8000.00 psig 2014.05.13 End Date: 2014.05.14 Last Calib.: Start Date: 2014.05.14 Start Time: 20:22:05 End Time: 04:01:44 Time On Btm: 2014.05.13 @ 23:11:00 Time Off Btm: 2014.05.14 @ 02:10:30

TEST COMMENT: 45 - IF- B.O.B. in 17 minutes

45 - ISI- Surface return 45 - FF- B.O.B. in 34 Minutes 45 - FSF Surface return

		¥ 8045 Pessure		ssure vs. Ti		▽ 8 Temperature		
1750		IIV IIV II COME						110
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C290			<i>j</i>			1		90
1000		# #	<i>i</i> *				~	200
750	*	##	· Ya					70
500	$\overline{}$				1	1		- 60
250				#	‡ ‡	1		- 50
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ue May:	9PM	***	No. Ma	14 Wed Time (Hours)		3/44	2	

PRESSURE SUMMARY Time Pressure Temp Annotation (Min.) (psig) (deg F) 1787.78 107.93 Initial Hydro-static Open To Flow (1) 17.83 107.22 34.86 107.94 Shut-In(1) 44 934.47 108.88 End Shut-In(1) 90 Open To Flow (2) 90 36.76 108.61 134 109.16 Shut-ln(2) 51.07 179 787.31 109.87 End Shut-In(2) 180 1584.87 110.10 Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	HOCM, 30%O, 70%M	0.14
77.00	GO, 5%G, 95%O	1.08
0.00	341' of G.I.P.	0.00

Gas Ra		
Obela Carberry	[B	O D -+- (M4-6(-0)

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
_		1.	ed###

Trilobite Testing, Inc Ref. No: 54043 Printed: 2014.05.14 @ 07:59:20

DST # 2 STRADDLE TEST 3675' TO 3722' TOP PACKERS FAILED



DRILL STEM TEST REPORT

26-11s-20w Ellis

1310 Bison Rd Conell #1

Hays KS, 67601 DST#: 2 Job Ticket: 54044 ATTN: Herb Deines Test Start: 2014.05.13 @ 20:22:00

GENERAL INFORMATION:

Formation: Arbuckle

ft (KB) Whipstock Test Type: Conventional Straddle (Reset) Deviated: No

Time Tool Opened: Tester: Cody Bloedorn 73

Time Test Ended: Unit No:

Interval: 3675.00 ft (KB) To 3722.00 ft (KB) (TVD) 2096.00 ft (KB) Reference Elevations: 3798.00 ft (KB) (TVD) 2088.00 ft (CF) Total Depth: 7.88 inchesHole Condition: Fair KB to GR/CF: 8.00 ft Hole Diameter:

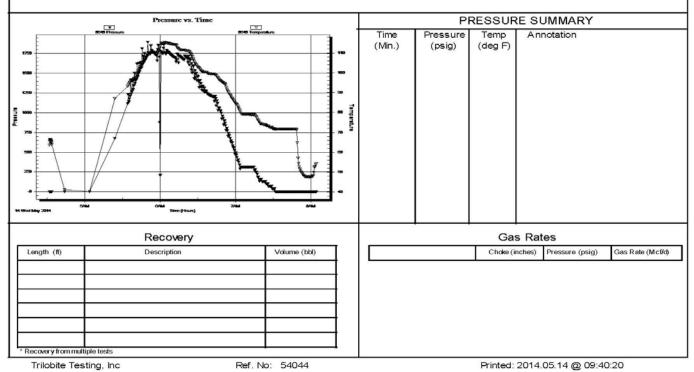
Serial #: 8648 Inside

Press@RunDepth: 3713.00 ft (KB) Capacity: 8000.00 psig

Start Date: 2014.05.14 End Date: 2014.05.14 Last Calib.: 2014.05.14 Start Time:

Time On Btm: Time Off Btm:

TEST COMMENT: IF- Opened tool ***Packer Failure*****



DST # 3 STRADDLE TEST 3600' TO 3722' BOTTOM PACKER HELD



DRILL STEM TEST REPORT

TDI, Inc 26-11s-20w Ellis

Conell #1 1310 Bison Rd Hays KS, 67601

Job Ticket: 54045 DST#: 3 ATTN: Herb Deines Test Start: 2014.05.14 @ 08:27:00

73

KB to GR/CF:

8.00 ft

GENERAL INFORMATION:

Formation: Arbuckle

Serial #: 8648

Test Type: Conventional Straddle (Reset) Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:50:15 Tester: Cody Bloedorn

Time Test Ended: 14:29:45 Unit No:

Interval: 3600.00 ft (KB) To 3722.00 ft (KB) (TVD) Reference Bevations: 2096.00 ft (KB) Total Depth: 3798.00 ft (KB) (TVD) 2088.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

Inside

24.07 psig @ Press@RunDepth: 3700.00 ft (KB) Capacity: 8000.00 psig End Date: Start Date: 2014.05.14 2014.05.14 Last Calib.: 2014.05.14 Start Time: 08:27:05 End Time: Time On Btm: 2014.05.14 @ 09:50:00 14:29:44 Time Off Btm: 2014.05.14 @ 12:33:15

TEST COMMENT: 45 - IF- 1 1/2" blow in 18 minutes, stayed there for rest of open.

45 - ISI- Surface return 30 - FF- Surged and died 45 - FSF No return

