**OPERATOR** 

Company: OUTLAW WELL SERVICE, LLC

Address: 1408 WEST 42ND HAYS, KS 67601

Contact Geologist: PRESTON WOLF Contact Phone Nbr: 785-650-2399

Well Name: WOLF #1

Location: NW NE SW NW S8 T11S R24W

API: 15-195-22950-00-00

Pool: Field: TIDBALL EAST

**KANSAS** State: Country: USA

Scale 1:240 Imperial

Well Name: WOLF #1

Surface Location: NW NE SW NW S8 T11S R24W

**Bottom Location:** 

API: 15-195-22950-00-00

License Number: 34272

Spud Date: 5/28/2014 Time: 1:45 PM Region: TREGO COUNTY

**Drilling Completed:** 6/2/2014

Time: 1:00 AM

Surface Coordinates: 1400 FNL & 692 FWL

**Bottom Hole Coordinates:** 

Ground Elevation: 2317.00ft 2322.00ft K.B. Elevation:

3300.00ft Logged Interval: To: 4000.00ft

Total Depth: 4000.00ft

Formation: LANSING / KANSAS CITY

Drilling Fluid Type: CHEMICAL / FRESH WATER GEL

### SURFACE CO-ORDINATES

Well Type: Vertical Longitude: -100.0153605 Latitude: 39.1135503 N/S Co-ord: 1400 FNL E/W Co-ord: 692 FWL

## **LOGGED BY**



SOLUTIONS CONSULTING, INC. Company:

Address: 108 W 35TH

HAYS, KS 67601

Phone Nbr: (785) 639-1337

Logged By: **GEOLOGIST** STEVE REED / HERB DEINES Name:

CONTRACTOR

Contractor: WW DRILLING, LLC

Rig #:

Rig Type: MUD ROTARY

Spud Date: 5/28/2014 Time: 1:45 PM TD Date: 6/2/2014 Time: 1:00 AM Rig Release: 6/2/2014 Time: 2:00 PM

**ELEVATIONS** 

2322.00ft K.B. Elevation: Ground Elevation: 2317.00ft

K.B. to Ground: 5.00ft

#### **NOTES**

DUE TO LOW STRUCTURAL POSITION OF THE WOLF #1 COMPARED TO SURROUNDING WELLS, COMBINED WITH LACK OF SIGNIFICANT SHOWS AND CHALKY NATURE OF PRIMARY ZONES LKC "I, J, K". THE DECISION WAS MADE TO PLUG AND ABANDON WELL.

OPEN HOLE LOGGING PROVIDED BY: PIONEER ENERGY SERVICES
LOGGING WAS ATTEMPTED, BUT TOOL WAS STUCK AT A DEPTH OF 3814 FEET, DECISION WAS MADE TO

ABORT LOGGING OPERATION DUE TO ADDED TIME TO RECONDITION HOLE.

DRILL STEM TESTING PROVIDED BY: TRILOBITE TESTING, INC:
ONE (1) CONVENTIONAL DRILL STEM TEST WAS PERFORMED, BUT PACKER FAILURE LEAD TO
MISRUN

## FORMATION TOPS SUMMARY AND CHRONOLOGY OF DAILY ACTIVITY

	WELL NAME	COMPARISON WELL	COMPARISON WELL	COMPARISON WELL
	WOLF #1	GARRETT #2	ROSA GARRETT #1	MARY #1-7
	API: 15-195-22950	API: 15-195-21011	API: 15-195-20427	API: 15-195-22901
FORMATION	SAMPLE TOPS	LOG TOPS (DATUM)	LOG TOPS (DATUM)	LOG TOPS (DATUM)
ANHYDRITE	1939' (+383)	+390	NA	+391
ТОРЕКА	3410' (-1088')	-1079′	NA	-1071′
HEEBNER	3626' (-1304')	-1296′	-1298′	-1289'
TORONTO	3652' (-1330')	NA	NA	-1313′
LKC	3664' (-1342')	-1334'	-1334′	-1328′
ВКС	3904' (-1582')	-1567	-1574′	-1562'
MARMATON	3950' (-1628')	NA	NA	-1607′
RTD	4000' (-1678')	-1613′	-1594	-1675'

#### **SUMMARY OF DAILY ACTIVITY**

5-28-14	R.U., spud @ 1:45pm, 8 5/8" surface casing set at 216' w/150 sxs common, 2% gel, 3% cc, plug down @ 5:45pm, WOC, drill plug @ 1:45am
5-29-14	704', drilling
5-30-14	2560', drilling
5-31-14	3430', drilling, CFS @ 3590, short trip (22 stands), CTCH, CFS @ 3700, CFS @3815, CFS @3835
6-1-14	3845', drilling, CFS @ 3877', mini trip (12 stands), CTCH, TOWB, survey 1°, DST #1 3839 to 3877, mis-run, packer failure, TD 4000 @ 1:00am, CTCH, out for logs
6-2-14	logging, log tool stuck in hole, worked 45 minutes to free, decision to end log, prepare to plug, plug down @2:15pm, release rig @ 4:15pm

#### **DST #1 SUMMARY**



# DRILL STEM TEST REPORT

Outlaw Well Services LLC

ATTN: Preston Wolf, Steve

ft (KB)

8-11s-24w Trego

1408 West 42nd

Wolf #1
Job Ticket: 59305

DST#:1

Hays Ks 67601

Test Start: 2014.06.01 @ 13:30:23

GENERAL INFORMATION:

Formation: LKC J-K

Time Tool Opened: 15:23:18

Time Test Ended: 17:30:48

Deviated: No Whipstock:

Test Type: Conventional Bottom Hole (Initial)

Tester: Ray Schwager

Unit No: 7

Interval: 3839.00 ft (KB) To 3877.00 ft (KB) (TVD)

3877.00 ft (KB) (TVD)

Hole Diameter: 7.87 inches Hole Condition: Fair

Reference Bevations: 2322.00 ft (KB)

2317.00 ft (CF) KB to GR/CF: 5.00 ft

Serial #: 8369 Inside

Press@RunDepth: Start Date:

Total Depth:

Start Time:

psig @ 2014.06.01

13:30:23

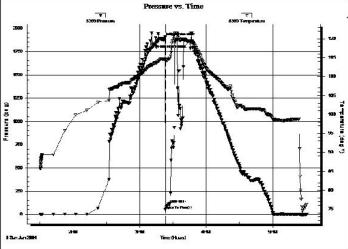
3843.00 ft (KB) End Date:

End Time:

2014.06.01 17:30:48 Capacity: Last Calib.: 8000.00 psig 2014.06.01

Time On Btm: Time Off Btm: 2014.06.01 @ 15:21:18 2014.06.01 @ 15:44:48

TEST COMMENT: IFP-w k to strg in 4min , lost packer seat pulled tool



Pressure	Temp	Annotation
(psig)	(deg F)	
1875.80	114.59	Initial Hydro-static
51.21	114.21	Open To Flow (1)
119.83	114.95	Shut-In(1)
1862.59	119.32	Final Hydro-static
	(psig) 1875.80 51.21 119.83	(psig) (deg F) 1875.80 114.59 51.21 114.21 119.83 114.95

# Recovery

Length (ft)	Description	Volume (bbl)
1200.00	Mud	15.74
		1

Gas Rates				
Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)		

Temperature (deg F)

110

105

120

95

75

80

85

90

