OPERATOR

Company: Herman L. Loeb, LLC

Address: P.O. Box 838

Lawrenceville, IL 62439

Contact Geologist:

Contact Phone Nbr: 618-943-2227

Well Name: Kodiak A #1-27

Location: Section 27 - T26S - R15W

API: 15-151-22447-0000

Pool: Field: Tatlock East

State: Kansas Country: USA



Scale 1:240 Imperial

Well Name: Kodiak A #1-27

Surface Location: Section 27 - T26S - R15W

Bottom Location:

15-151-22447-0000 API:

License Number: 3273

Spud Date: 2/14/2015 Time: 10:45 AM

Region: **Pratt County**

Drilling Completed: 2/22/2015 Time: 3:40 AM

Surface Coordinates: 966' FNL & 2156' FWL

Bottom Hole Coordinates:

Ground Elevation: 2044.00ft K.B. Elevation: 2053.00ft

Logged Interval: 3050.00ft To: 4483.00ft

Total Depth: 4483.00ft

Formation: Viola

Drilling Fluid Type: Chemical/Fresh Water Gel

SURFACE CO-ORDINATES

Vertical Well Type:

Longitude:

Latitude:

N/S Co-ord: 966' FNL 2156' FWL E/W Co-ord:

LOGGED BY

Keith Reavis

Consulting Geologist

Company: Keith Reavis, Inc. Address: 3420 22nd Street

Great Bend, KS 67530

Phone Nbr: 620-617-4091

Logged By: KLG #136 Name: Keith Reavis

CONTRACTOR

Contractor: Sterling Drilling Company

Rig #:

Rig Type: mud rotary Spud Date: 2/14/2015 Time: 10:45 AM TD Date: 2/22/2015 Time: 3:40 AM

Rig Release: Time:

ELEVATIONS

K.B. Elevation: 2053.00ft

K.B. to Ground: 9.00ft

NOTES

Due to the results of DST's 1-4, electrical log analysis and low structural position, it was determined that the Kodiak A #1-27 be plugged and abandoned as a dry hole.

Ground Elevation:

2044.00ft

A Tooke Daq gas detection system operated by Sterling Drilling was employed during the drilling of this well. ROP and gas curves were imported into this log. Gamma ray and caliper curves from the Halliburton electrical log suite were also imported.

Log tops and measurements were consistently 3 to 5 ft high to tops and measurements picked from the Tooke Daq ROP. Drill time was shifted up hole 3 ft. to more closely match the gamma ray. All tops contained in this report were corrected to the electrical log measurements. Drill stem test intervals were corrected to electrical log depth.

Samples were saved and will be available for review at the Kansas Geological Survey Well Sample Library located in Wichita, KS.

Respectfully submitted, Keith Reavis

Herman L. Loeb, LLC daily drilling report

DATE	7:00 AM DEPTH	REMARKS
02/17/2015	2906	Geologist Keith Reavis on location @ 0940 hrs, 3096 ft, drilling ahead Tarkio, Howard, Topeka
02/18/2015	3881	Heebner, Douglas, Brown Lime, short trip @ Brown Lime, show in Toronto warrants test, short trip, TOH w/bit, conduct and complete DST #1, successful test, TIH w/bit, resume drilling, Lansing
02/19/2015	3937	Lansing B, gas kick and show warrant test, TOH w/bit for DST #2, conduct DST #2, successful test, TIH w/bit, resume drilling
02/20/2015	4020	show in D and G zones warrant condemnation/pressure test, TOH w/bit, TIH w/tools, conducting DST #3, complete DST #3, successful test, rig under repairs, TIH w/bit, resume drilling, show in H zone warrants test, TOH w/bit
02/21/2015	4068	TIH w/tools, conduct and complete DST #4, successful test, TIH w/bit, resume drilling, Stark, BKC, Kinderhook
02/22/2015	4483	drilling ahead, Kinderhook, Viola, TD @ 4483 ft, short trip, TOH for logs, rig up Halliburton, conduct logging operations, geologist off loc @ 1715 hrs

Drill Stem Tests

<u>DST #1</u>, 3710-3881 ft, 15-45-45-90, recovered 35 ft mud, IFP 21-27#, ISIP 883#, FFP 28-33#, FSIP 1010#, HSH 1913 & 1869#, BHT 111 deg. F

DST #2, 3917-3937 ft, 15-45-45-90, recovered 125 ft GIP, 62 ft SOCM, 62 ft MW w/oil specs, 62 ft saltwater, IFP 33-53#, ISIP 1145#, FFP 60-112#, FSIP 1153#, HSH 2048 & 1907#, BHT 117 deg F

DST #3, 3948-4020 ft, 15-45-30-90, recovered 340 ft G&OCWM, 509 ft MW w/oil specs, IFP 54-294#, ISIP 1258#, FFP 234-401#, FSIP 1249#, HSH 1951 & 1911#, BHT 120 deg F

DST #4, 4044-4068 ft, 15-45-45-90, recovered 105 ft GIP, 80 ft OCMW, 62 ft SOCW, IFP 34-48#, ISIP 1136#, FFP 54-91#, FSIP 1108#, HSH 2050 & 1997#, BHT 119 deg F

ROCK TYPES























