ROBERT E. O'DELL
Petroleum Geologist

GEOLOGIST'S REPORT
DRILLING TIME AND SAMPLE LOG

COMPANY Eagle Creek Corporation
LEASE Lynn #1-14
FIELD Bemis-Shutts
LOCATION 330' FSL & 1270' FEL
SEC 14 TWSP 11S RGE 18W
COUNTY Ellis STATE Kansas
CONTRACTOR Southwind Rig #3
SPUD 9-4-2013 COMP 9-11-2013
RTD 3500' LTD 3504'
MUD UP 2700' TYPE MUD Chemical

SAMPLES SAVED FROM 2800' TO RTD
DRILLING TIME KEPT FROM 2700' TO RTD
SAMPLES EXAMINED FROM 2800' TO RTD
GEOLOGICAL SUPERVISION FROM 2785' to RTD
GEOLOGIST ON WELL Bob O'Dell

ELEVATIONS
KB 1913
DF
GL 1905
Measurements Are All From KB

CASING
CONDUCTOR
SURFACE 8-5/8" set @ 262'
PRODUCTION

ELECTRICAL SURVEYS
Radiation Guard w/cal.

FORMATION TOPS	ELECTRIC LOG	SAMPLE
Anhydrite	1180 (+ 733)	1181 (+ 732)
Topeka	2873 (- 960)	2869 (- 956)
Heebner	3099 (- 1186)	3095 (- 1182)
Lansing	3143 (- 1230)	3140 (- 1227)
BKC	3378 (- 1465)	3372 (- 1459)
Arbuckle	3473 (- 1560)	3467 (- 1554)
Total Depth	3504 (- 1591)	3500 (- 1587)

14
API# 15-051-26,592

REMARKS *Due to the results of structural position relative to nearby production, drillstem testing and electric log analysis, decision was made to plug and abandon the #1-14 Lynn on 9/11/2013.*

Respectfully submitted,

Bob O'Dell
9/11/2013

LEGEND

Anhydrite, Sandstone, Limestone, Shale, Carb Sh, Cherty LS, Chert, Dolomite

DRILLING TIME IN MINUTES PER FOOT — Rate of Penetration Decreases — 5, 10, 15

GAS SCALE — 10, 50, 100, 500

DEPTH	LITHOLOGY	SAMPLE DESCRIPTION	REMARKS
1100		9/7/2013 - Geologist on location 6:30 p.m. @ 2785'. Drilling. 9/8/2013 - 7:00 a.m. CFS @ 3070'. 9/9/2013 - 7:00 a.m. CTCH after DST #3 @ 3130'. 9/10/2013 - 7:00 a.m. CFS @ 3325'. 9/11/2013 - 7:00 a.m. CFS @ 3481'.	
1200		Anhydrite 1181 (+ 732) Base/Anhydrite 1213 (+ 700)	
2700		Lst-tan, grey, f-m xln, granular, part argillaceous, scattered fossiliferous, no vis porosity Shale-dark grey Lst-white, pale grey, f xln, part chalky, soft, part cherty, no vis porosity	
2800		Shale-grey, part calcareous Shale-lt grey, slightly sandy to grey, dark grey, soft Shale-grey, dark grey Lst-white, lt grey, f xln, part granular, scattered chalky, scattered fossiliferous, no vis porosity Shale-grey, dark grey, scattered sandy	
		Topeka 2869 (- 956)	
2900		Lst-white, lt grey, f xln, granular, scattered fossiliferous, calcitic, no vis porosity Lst-grey, f xln, part argillaceous, part cherty, dense, no vis porosity Lst-white, tan, grey, f-m xln, scattered fossiliferous, calcitic, poor xln porosity, no show Lst-white, f xln, granular, part calcitic, no visible porosity Shale-grey, fissile Lst-white, lt grey, f xln, granular, part argillaceous, scattered fossiliferous, no vis porosity Lst-lt grey, f xln, granular, scattered fossiliferous, part calcitic, no vis porosity	
3000	DST #1 3044-3070	Lst-as above Shale-dark grey, grey, part calcareous Shale-dark grey, grey Lst-tan, white, f xln, granular, dolomitic, poor xln porosity, no show Shale-black, dark grey, fissile Lst-white, vf xln, cherty, dense, no vis porosity Lst-as above to tan, white, lt grey, vf-f xln, most cherty, dense, scattered calcitic, no vis porosity Lst-lt grey, white, vf-f xln, granular, part argillaceous, scattered chalky, no vis porosity Shale-pale grey, soft Shale-black, dark grey Lst-white, lt grey, f xln, granular, scattered fossiliferous, part cherty, poor xln porosity, no show free oil, no odor, very scattered light stn Lst-tan, dark grey, f-m xln, fossiliferous, calcitic, cherty, dense, no vis porosity Lst-tan, white, f xln, fossiliferous, part dolomitic, f-g xln & vugular porosity, fair show free oil, fair odor, partial stn to dark saturation	DST #1 30-30-30-30 1st open: Weak blow died in 1" 2nd open: No blow Rec. 25' Mud FP: 17-22/24-26# SIP: 493-464# HP: 1539-1488# Tmp: 105°
3100	DST #2 3091-3130	Lst-lt grey, white, tan, f-c xln, part cherty, dense, no vis porosity Shale-black, hard Shale-grey/green, slightly sandy	DST #2 30-30-30-30 1st open: Weak blow died/15 sec. 2nd open: No blow Rec. 5' Mud FP: 17-19/18-20# SIP: 142-58# HP: 1598-1521# Tmp: 104°
		Toronto 3116 (-1203)	
		Lst-white, scattered f-m xln, cherty, finely fossiliferous, scattered calcitic, poor xln & vugular porosity, slight show free oil, faint odor, partial lt stn to lt saturation Lst-white, lt grey, tan, f-c xln, fossiliferous, part argillaceous, part granular, no vis porosity Shale-dark grey, dark red, part calcareous	
		Lansing 3140 (-1227)	
3200	DST #3 3203-3234	Lst-white, lt grey, tan, vf-f xln, most cherty, dense, scattered granular, no vis porosity Shale-grey, calcareous Lst-grey, f-m xln, fossiliferous, argillaceous, no vis porosity Lst-white, tan, f-m xln, finely fossiliferous, part calcitic, poor scattered xln porosity, very slight show of sticky free oil, faint odor, partial stn & lt saturation Lst-grey, tan, vf-f xln, part cherty, dense, no vis porosity Lst-white, f-c xln, fossiliferous, oolitic, calcitic, cherty, dense, no vis porosity Lst-white, tan, f-m xln, fossiliferous, calcitic, part granular, part cherty, poor xln & scattered vugular porosity, very slight show of free oil, faint odor, scattered dark patchy stn Lst-white, f xln, part chalky, no vis porosity Shale-dark grey, grey, black Lst-white, tan, grey, vf-f xln, part cherty, part granular, argillaceous, no vis porosity Lst-tan, lt grey, white, f-c xln, oolicastic, oolitic, calcitic, fair to good vugular & oolicasitic porosity, good show free oil, good odor, light to dark patchy stn & partial saturation Lst-white, lt grey, vf-f xln, part cherty, dense, part chalky, no vis porosity Shale-dark grey, dark green, grey Shale-black, dark grey Lst-dark grey, f-m xln, fossiliferous, calcitic, dense, no vis porosity Lst-white, lt grey, vf-f xln, scattered fossiliferous, cherty, dense, no vis porosity Shale-dark grey, grey	DST #3 30-30-30-30 1st open: Weak Surface Blow 2nd open: No blow Rec. 15' Mud FP: 19-20/22-20# SIP: 342-342# HP: 1712-1544# Tmp: 107°
3300	DST #4 3455-3470	Lst-tan, f xln, fossiliferous, oolitic, granular, good xln & pinpoint porosity, no show Lst-white, lt grey, tan, vf-f xln, most cherty, blocky, dense, scattered poor xln porosity, very slight show free oil, faint odor, scattered light stn Lst-tan, lt grey, vf xln, cherty, dense, no vis porosity Shale-dark grey, black Lst-lt grey, white, tan, vf-f xln, part cherty, scattered calcitic, most dense, no vis porosity Lst-white, tan, vf xln, dense, no vis porosity Lst-white, f-m xln, fossiliferous, oolitic, calcitic, poor xln porosity, very slight show sticky free oil, no odor, patchy stn Lst-white, vf-f xln, scattered calcitic, dense, no vis porosity	DST #4 30-45-60-60 1st open: Strong blow OBB/2-1/2" 2nd open: Strong blow OBB/3" Rec. 189' GIP, 514' SGOCMW (5%g, 5%o, 50%w, 40%m), 1,134' MW/scum oil FP: 54-360/360-750# SIP: 1139-1139# HP: 1736-1686# Tmp: 114° Chl: 36,000 ppm Sys: 3,500 ppm
		BKC 3372 (-1459)	
3400		Shale-dark grey, grey, dark green Shale-dark red, grey, green, yellow Chert-amber, sharp, fresh, angular Chert-as above to white, weathered, no vis porosity, tarry edge stn on weathered edges Sand-green, f grain, well-sorted, semi-friable, no show Shale-as above Chert-white, grey, translucent, fresh, sharp, angular Chert-as above Shale-dark red, dark grey, dark green Dolomite-green, f xln, rhombic, poor xln porosity, slight show heavy free oil, good odor, dark patchy stn Shale-turquoise, waxy, finely pyritic	
		Arbuckle 3467 (-1554)	
3500 CTCH for log		Shale-as above Dolomite-white, tan, f-c xln, part sandy, rhombic, poor to fair xln & vugular porosity, slight show free oil, good odor, spotted stn to dark saturation Dolomite-tan, vf-f xln, dense, no vis porosity Dolomite-lt grey, tan, f xln, sucrosic, semi-friable, fair to good xln porosity, slight show free oil, good odor, light stn & saturation Dolomite-white, lt grey, f xln, sucrosic, most non-friable, tite, fair to good xln & vugular porosity, no show free oil, fair odor, light stn to partial saturation Dolomite-tan, white, vf-f xln, most dense, scattered as above, no vis porosity, no show free oil, faint odor, scattered stn	
		Total Depth 3500 (-1587)	
3600			

Eagle Creek Corporation
Lynn #1-14
330' FSL & 1270' FEL
Section 14-11s-18w
Ellis County, Kansas

Elev: 1913 KB
API # 15-051-26,592