

GEOLOGY REPORT

06-14-2011 TO 06-17-2011

FOR KEN CODY, RAY EBBERTS, & KELSEY CODY

GEOLOGIST: KEN CODY

WELL: CODY#101

DRILLING RIG: MOKAT DRILLING

TOTAL DEPTH: 1829FT

API# 15-049-22549-0000

**ELK COUNTY, KS.
SEC 12 TWP 30S RGE 12E
LOCATION: 3115 FT. FSL & 3240 FT. FEL**

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PAINTERHOOD OIL CO.
WELL: CODY #101

MOKAT DRILLING
Set Surface 6/14/2011
Drilled 6/15/2011-6/17/2011

<u>DEPTH</u>	<u>LITHOLOGY</u>	<u>FLOS</u>
410-15 (Big Salt)	Shale	N
415-20	Sand Shaley	N
420-25	White sand, wet, limey	N
425-30	White sand, wet, limey	N
430-35	White sand, coarse, cemented	N
435-40	White sand, cemented, finer, med.	N
440-45	White sand, cemented, med.	N
600-10	Gray shale	N
610-20	Gray shale	N
620-30	Some lime & dark shale	N
630-40	Dark shale	N
640-50	Lime & dark shale	N
650-60	Sand, shaley	N
660-70	Sand, dirty	N
670-80	Sand, dry sample 20% B rest dull	odor 75% dull
680-90(top of KC)	Tan, lime	N
690-700	Lime, tan-gray	N
700-10	Lime, tan-gray	S
710-20	Gray lime	S
720-30	Lime, white & gray	N
730-40	Light tan lime	S
740-50	Light tan lime	S
750-60	Lime, dark shale	N
760-70	Lime, tan-gray	N
770-80	Tan, lime	S
780-90	Tan, lime	N
790-800	Tan, lime	S
800-10	Tan, lime	S
810-20	Tan, lime & coal	S
820-30	Dark sandy shale	N
830-40	Dark sandy shale	N
840-50	Dark sandy shale	N
850-60	Brown lime & sandy shale	N
860-70	Tan lime	N
870-80	Dark sandy shale & lime	N
880-90	Black sandy coal	N
890-900	Brown sandy lime	N
900-10	Brown lime	N
910-20	Brown lime	N
920-30	Brown lime	N
930-40	Brown lime	N
940-50	Black Shale, coaley	N

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<u>DEPTH</u>	<u>LITHOLOGY</u>	<u>FLOS</u>
950-60	Black shale	N
960-70	Black shale	N
970-75	Black shale	N
975-80	Black shale & lime	N
980-85	Tan lime	N
985-90	Sandy shale	N
990-95	Sand tight	N
995-1000	Sand tight & shaley	S
1000-05	Sand tight & shaley	S
1005-10	Sand tight & shaley	2%
1010-20	Sandy shale	N
1020-30	Tan lime	Odor N
1030-40	Sand, tight & limey	Light Odor 2%
1040-50	Sand, tight	N
1050-60	Sand, tight	N
1060-70	Sandy shale	N
1070-80	Sand, tight	N
1080-90	Sand, tight & shaley	N
1090-1100	Sandy shale	N
1100-10	Sandy shale	N
1110-20	Sandy shale	N
1120-30	Sandy shale	N
1130-40	Lime & sandy shale	N
1140-50	Lime, tan-dark gray	N
1150-60	Tan lime	N
1160-70	Coal, sandy	N
1170-80	Sandy shale, limey	N
1180-90	Gray shale	N
1190-1200	Brown lime	Good odor S
1200-10	Brown lime	Good odor 5%
1210-20	Dark tan lime & coal	Lime 100% dull
1220-30	Dark tan lime & coal	Light odor 2% B
1230-40	Sand, tight	Good odor 1% B & 99% D
1240-45	Sand, tight	Good odor 1% B & 99% D
1245-50	Dark sandy shale	S
1250-60	Dark sandy shale	S
1260-70	Dark sandy shale	N
1270-80	Dark sandy shale	N
1280-90	Dark shale & coal	N
1290-1300	Dark shale & sand, tight	N
1300-10	Sand, tight, lime & coal	2%
1310-20	Dark sandy shale	N
1320-30	Dark sandy shale	S
1330-40	Black coaley shale	N
1340-50	Sand, shaley	S
1350-60	Sand, shaley	S
1360-70	Sand, shaley, & red bed	N

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<u>DEPTH</u>	<u>LITHOLOGY</u>	<u>FLOS</u>
1370-80	Sand, shaley	N
1380-90	Sand, shaley	S-Dull
1390-1400	Sand, shaley, dark shale	N
1400-10	Sand, shaley, dark shale	N
1410-20	Gray sandy shale	N
1420-30	Gray sandy shale	N
1430-40	Gray sandy shale	S
1440-50	Gray sandy shale	S
1450-60	Gray sandy shale Pyrite	N
1460-70	Gray sandy shale	N
1470-80	Black shale	N
1480-90	Black and gray shale and coal	N
1490-1500	Black shale	N
1500-10	Black shale	N
1510-20	Black shale	N
1520-30	Black shale	N
1530-40	Black shale	N
1540-50	Black shale and sand	N
1550-60	Sand & black shale	S 1%
1560-70	Sand, shale, & chert	S 10%
1570-80	Cowley facets & a little sand	N
1580-90	Cowley facets	N
1590-1600	Cowley facets	N
1600-10	Cowley facets	N
1610-20	Cowley facets	N
1620-30	Sand, limey	N
1630-40	Sandy brown chat Faint odor	S
1640-50	Sandy brown chat & white chat	N
1650-60	White chat, hard	N
1660-70	White hard lime	N
1670-80	White hard lime & chat & green shale	N
1680-90	Hard white lime Faint odor	90% dull
1690-1700	White chat	N
1700-10	White hard lime & chat Odor	1%
1710-20	White lime & chat	1%
1720-30	Sandy lime, white to gray Odor	90%
1730-40	Lime, white to gray	S
1740-50	Flinty lime & green shale	N
1750-60	White hard lime, slightly sandy	N
1760-70	Flinty lime, sandy lime, & green shale	N
1770-80	Lime, white to gray, & green shale	N
1780-90	Sand & black shale Odor	S
1790-1800	Black shale Odor	N
1800-10	Black shale Odor	N
1810-20	Black shale Odor	N
1820-29 TD	Arbuckle Lime, white to tan	S

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