

Robert D. Hendrix

Petroleum Geologist

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY **McCoy Petroleum Corporation**

LEASE **Jackson "A" #1-11**

FIELD **Wildcat**

LOCATION **660' fl & 1320' fl**

SEC **11** TWP **7S** RGE **19W**

COUNTY **Rooks** STATE **Kansas**

CONTRACTOR **Murfin Drilling Co. Inc. Rig #16**

SPUD **9/27/2012** COMP **10/3/2012**

RTD **3590** LTD **3594**

MUD UP **2730'** TYPE MUD **Chemical**

SAMPLES SAVED FROM **2900** TO **TD**

DRILLING TIME KEPT FROM **2900** TO **TD**

SAMPLES EXAMINED FROM **2900** TO **TD**

GEOLOGICAL SUPERVISION FROM **3185**

GEOLOGIST ON WELL **Robert D. Hendrix**

ELEVATIONS
KB 2007

GL 2002

Measurements Are All From **Kelly Bushing**

CASING

CONDUCTOR SURFACE **8.58"** at 208'

PRODUCTION **4.12"**

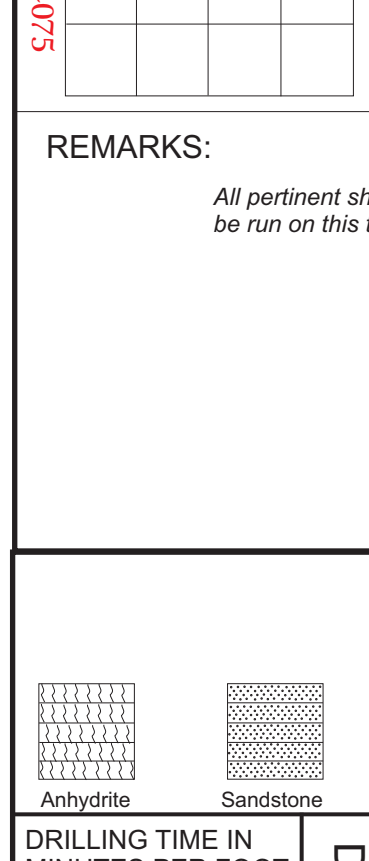
ELECTRICAL SURVEYS

Pioneer

Neutron density

Dual Induction, Micro

FORMATION TOPS	ELECTRIC LOG	SAMPLE
Anhydrite	1533 (+474)	1534 (+473)
Base Anhydrite	1563 (+444)	1564 (+443)
Topeka	2974 (-969)	2974 (-967)
Heebner Sh.	3177 (-1170)	3177 (-1170)
Toronto	3204 (-1197)	3200 (-1193)
Lansing	3226 (-1219)	3220 (-1213)
Stark Sh.	3404 (-1397)	3404 (-1397)
BKC	3442 (-1435)	3440 (-1433)



REMARKS:

All pertinent shows were tested, due to the positive results in the Toronto on DST #1 it is recommended that casing be run on this test for further examination.

Respectfully Submitted

Robert D Hendrix

DRILLING TIME IN MINUTES PER FOOT Rate of Penetration Decreases	DEPTH	LITHOLOGY	GAS UNITS	SAMPLE DESCRIPTION	REMARKS
	1500				Anhydrite 1534 (+473)
	50				Base Anhydrite 1564 (+443)
	1600				Geologist on location 2850' at 3:20 pm 9/29/2012
	2900			Shale: gray, red	
	50			Shale: gray, silty, sl sandy, micaceous, biotitic, calcareous	
	50			Limestone: tan to gray, f-ixln, v-fossiliferous, no vis por	
	50			Limestone: tan to gray, f-ixln, oolitic in part, v-fossiliferous, sl vug por, ns	
	50			Shale: gray, green, red, black, silty, sandy	
	50			Limestone: tan, f-ixln, sl fossiliferous, no vis por	
	50			Shale: gray, red	
	50			Shale: gray, silty, micaceous, biotitic	
	50			Limestone: brown to tan, f-ixln, sl chalky, fossiliferous, no vis por	Topeka 2974 (-967)
	50			Limestone: white to tan, f-ixln, chalky, soft in part, no vis por	
	50			Limestone: white to tan, f-ixln, chalky, soft in part, no vis por	
	50			Shale: gray, black	
	50			Limestone: tan to brown, f-mxln, pelletaloid, fossiliferous, no vis por	
	50			Shale: gray, green, soft	
	50			Limestone: tan, f-ixln, granular, chalky, fossiliferous, no vis por	
	50			Limestone: tan, f-ixln, granular, sl chalky, sl cherty, fossiliferous, no vis por	
	50			Limestone: tan, f-ixln, oolitic in part, chalky, fossiliferous, no vis por	
	50			Shale: gray, lt green silty sandy, soft	
	50			Shale: gray, red, black carbonaceous	
	50			Limestone: tan, f-ixln, sl chalky, pelletaloid, sl fossiliferous, no vis por	
	50			Shale: gray, green silty	
	50			Limestone: tan, f-ixln, sl chalky, v fossiliferous, no vis por	
	50			Shale: gray, brown, red, black	
	50			Limestone: tan, f-ixln, sl granular, fossiliferous, no vis por	
	50			Shale: black, carbonaceous	
	50			Limestone: tan, f-ixln, dense, hard, no vis por	
	50			Shale: gray, green, black	
	50			Shale: red, gray	Heebner 3177 (-1170)
	50			Limestone: white to tan, f-mxln, oolitic in part, fossiliferous, fr interxln por, gd dark sat stain, slsfo w fr to gd sfo on break, good odor	
	50			Shale: gray, red	Toronto 3200 (-1193)
	50			Limestone: white, f-ixln, sl chalky, sl glauconitic, oolitic in part, mostly dense, 3 pcs sl oolitic por, sl spotty stain, nfo, no odor	8:00am, 9/30/2012 wt 9.0, vis. 60, lcm 1# Mud-Co, Gary Schmidtberger deviation 3/4 deg. Strap . 11' long TOH revealed hole in collar replaced.
	50			Limestone: white, f-ixln, dense no vis por,	Lansing 3220 (-1213)
	50			Shale: gray, red, black	
	50			Limestone: white to tan, f-ixln, sl chalky, dense, oolitic, fossiliferous, no vis por, ns	
	50			Limestone: white to tan, f-ixln, sl chalky, dense, oolitic, fossiliferous, sl pyritic, no vis por, ns	
	50			Shale: gray, red	
	50			Limestone: tan to white, f-ixln, sl chalky, cherty, 10% sample, pr vug por, spotty sat lt to dark stain, slsfo, oily sheen in sample, fair odor	
	50			Limestone: tan to white, f-ixln, sl chalky, cherty, no vis por	
	50			Shale: red, black	
	50			Limestone (dolomitic): tan to white, glauconitic, f-ixln, sl chalky, hard, fossiliferous, no vis por	
	50			Shale: gray, red	
	50			Limestone: tan to white, f-mxln, sl chalky, fossiliferous, no vis por	
	50			Shale: dark gray, black, red	
	50			Limestone (dolomitic): tan, f-ixln, sl chalky, fossiliferous, no vis por	
	50			Limestone: white to tan, f-ixln, soft, chalky, sl fossiliferous, no vis por	
	50			Shale: black carbonaceous	
	50			Shale: gray, red	
	50			Shale: dark gray, black, red	
	50			Limestone: brown to gray, f-mxln, dense, hard, fossiliferous, no vis por	
	50			Limestone: white, f-ixln, hard, dense, sl chalky, cherty, no vis por	
	50			Shale: gray, red	
	50			Limestone: tan to white, f-ixln, sl chalky, cherty, 10% sample, sl interxln por, spotty sat dark stain, v-slsto, faint odor	
	50			Shale: gray, red, black	
	50			Limestone: white, f-mxln, sl chalky, fossiliferous, 5% sample pr interxln por, dark spotty stain, slsfo on break, faint odor	
	50			Shale: black carbonaceous	
	50			Shale: gray, red	
	50			Limestone: white to tan, f-ixln, sl fossiliferous, oolitic, poor oolitic por, dark sat stain, prsfo, fair odor	
	50			Limestone: tan to white, f-ixln, hard, dense, sl chalky, sl fossiliferous, no vis por	
	50			Shale: black carbonaceous	
	50			Shale: gray, red, black	
	50			Limestone: white to tan, f-ixln, soft, fossiliferous, oolitic, no vis por	
	50			Shale: gray, green, red, black	
	50			Limestone: tan, f-ixln, chalky, sl fossiliferous, no vis por	
	50			Shale: gray, green, red, black	
	50			Shale: gray, green, red, black, sandy, w limestone white to tan, f-ixln, no vis por	
	50			Shale: gray, red, black	
	50			Limestone: tan, f-ixln, chalky, fossiliferous, no vis por	
	50			Shale: gray, green, red, black, sandy, cherty	
	50			Conglomerate Chert: gray, white, red, yellow.	
	50			Shale: red, gray Dolomite: gray, red, f-ixln, no vis por	
	50			Shale: red, gray, cherty	
	50			Shale: mostly red, gray, sandy, cherty, dolomite, red, white, f-mxln, fr pp-vug por, ns	
	50			Shale: red, gray, dolomitic	
	50			Dolomite: gray to tan, red stained, f-mxln, gd pp-vug por, ns	RTD 3590 (-1583)

DST #1
3176-3213
30-60-60-90
1st open: bob 4 3/4 min
1st close: blow back built to 1/2"
then died back to surface
2nd open: bob 8 1/2 min
2nd close: blow back built to 3/4"
then died back to 1/4"
Rec:
131' go 35/65
121' mcgo 30/10/60
61' wmcgo 10/15/75
346' gip
hydro: 1549-1511 psi
lf: 103-102 psi
ff: 117-145 psi
sip: 839-946 psi
bht: 104°F
gravity: 34°

DST #2
3266-3316
30-60-30-60
1st open: wk blow built to 1 1/2"
2nd open: wk blow built to 1 1/2"
Rec:
50' m with oil scum
hydro: 1614-1584 psi
lf: 44-46 psi
ff: 59-65 psi
sip: 836-828 psi
bht: 105°F

DST #3
3365-3427
30-60-30-60
1st open: weak 1/8" blow died in 8 min
2nd open: no blow
Rec:
5' m-w-os
hydro: 1682-1653 psi
lf: 44-46 psi
ff: 48-48 psi
sip: 743-658 psi
bht: 103°F

8:00am, 10/2/2012
wt 9.2, vis. 52, lcm 1#
Mud-Co, Gary Schmidtberger