Scale 1:240 (5"=100') Imperial
Measured Depth Log

Well Name:	Wasinger #2		
Location:	Sec. 19 - T09S - R21W, Graham County, KS		
License Number:	API No.: 15-065-23744-0000	Region:	Morel
Spud Date:	June 27, 2011	Drilling Completed:	July 4, 2011
Surface Coordinates:	700' FNL & 2240' FEL; 3-D Location -- Twin to Wasinger #1		
Bottom Hole Coordinates:			
Ground Elevation (ft):	2333'	K.B. Elevation (ft):	2338'
Logged Interval (ft):	3250' To: 3950'	Total Depth (ft):	3951' (LTD)
Formation:	Arbuckle		
Type of Drilling Fluid:	Chemical Gel/Polymer		

OPERATOR

Company: White Exploration, Inc.
Address: 2400 N. Woodlawn Suite 115
Wichita, KS 67220

GEOLOGIST

Name: Derek W. Patterson
Company: Valhalla Exploration, LLC
Address: 133 N. Glendale
Wichita, KS 67208

REMARKS

After review of the geologic log, negative DST results, and open hole logs for the Wasinger #2, it was agreed by all parties to plug and abandon said well as a dry hole. The Wasinger #2 was plugged on July 5, 2011.

The well samples were saved, submitted, and will be available for review at the Kansas Geologic Survey's Well Sample Library located in Wichita, KS.

Respectfully Submitted,

Derek W. Patterson

COMMENTS

Please Note: the RTD was 3950' and the LTD was 3951'

The drill time varies from +1' to -4' with respect to the electric log curves. Since there is such a wide range in formation top differences between the two, I have decided to leave my drill time as is and not shift any of it to match the open hole log curves.

The following lists the probable formation tops with respect to drill time for future reference:

Topeka 3304'
King Hill 3403'
Queen Hill 3455'
Heebner 3511'
Toronto 3537'
Lansing 3551'
Muncie Creek 3669'
Stark Shale 3731'
Hushpuckney 3751'
Base Kansas City 3764'
Marmaton 3792'
Arbuckle 3863'

White Exploration, Inc.

DAILY DRILLING REPORT

Company: White Exploration, Inc.
2400 N Woodlawn
Suite 115
Wichita, KS 67220
Contact: Kenneth S. White
Office: 316.682.6300 Cell: 316.655.2759
Geologist: Derek W. Patterson
Cell: 316.655.3550 Office: 316.558.5202
Drilling Contractor: Murfin Drilling Co. - Rig #8
Toolpusher: Rodney Farr

Well: Wasinger #2
Location: 700' FNL & 2240' FEL
Sec. 19 - T09S - R21W
Graham Co., KS
Elevation: 2333' GL – 2338' KB
Field: Morel
API: 15-065-23744-0000
Surface Casing: 212.65' of 8 5/8" set @ 219' KB
Spud Date: June 27, 2011
Drilling Complete: July 4, 2011

DATE	7:00 AM DEPTH	PREVIOUS 24 HOURS OF OPERATIONS
7.2.2011	3655'	Drilling and connections Topeka and King Hill. Geologist Derek W. Patterson on location, 1705 hrs 7.1.11. Drilling and connections Queen Hill, Heebner, Toronto, and into Lansing. CFS @ 3641' (LKC 'F'). Resume drilling Lansing. Made 723' over past 24 hrs of operations. DMC: $1,621.00 CMC: $11,153.80
7.3.2011	3880'	Drilling and connections Lansing, Base Kansas City, Marmaton, and into Arbuckle. CFS @ 3871' (Arb), CFS @ 3876' (Arb), CFS @ 3880' (Arb), shows warrant DST. CTCH, short trip (35 stands), CTCH, drop survey, Strap Out for DST #1, 0445 hrs 7.3.11. Made 225' over past 24 hrs of operations. DMC: $2,025.80 CMC: $13,179.60
7.4.2011	RTD - 3950' LTD - 3951'	TIH for DST #1, conducting DST #1, test successful. TIH with bit, CTCH, resume drilling Arbuckle, 2145 hrs 7.3.11. CFS @ 3890' (Arb), CFS @ 3900' (Arb), resume drilling and connections ahead to RTD of 3950'. RTD reached 0215 hrs 7.4.11. CTCH, drop survey, TOH for open hole logging operations, 0345 hrs 7.4.11. Made 70' over past 24 hrs of operations. DMC: $55.15 CMC: $13,234.75
7.5.2011	RTD - 3950' LTD - 3951'	Commence open hole logging operations, 0730 hrs 7.4.11. Open hole logging operations complete, 1145 hrs 7.4.11. Decision made to run straddle test to further evaluate upper part of Arbuckle. TIH for DST #2, conducting DST #2, misrun due to packer failure. TOH with tool, TIH for DST #3, conducting DST #3, test successful. Orders received to plug & abandon well as a dry hole, 0045 hrs 7.5.11. Geologist Derek W. Patterson off location, 0715 hrs 7.5.11.

White Exploration, Inc.

WELL COMPARISON SHEET

	DRILLING WELL White Exploration, Inc. - Wasinger #2 700' FNL & 2240' FEL Sec. 19 - 09S - 21W 2338 KB				COMPARISON WELL Coral Production Corp. - Wasinger #1 910' FNL & 2270' FEL Sec. 19 - 09S - 21W Oil - Arb 2346 KB		Structural Relationship	
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log
Topeka	3304	-966	3304	-966	3318	-972	6	6
King Hill	3403	-1065	3402	-1064	3416	-1070	5	6
Queen Hill	3455	-1117	3453	-1115	3468	-1122	5	7
Heebner	3512	-1174	3511	-1173	3525	-1179	5	6
Toronto	3537	-1199	3533	-1195	3549	-1203	4	8
Lansing	3550	-1212	3548	-1210	3564	-1218	6	8
Muncie Creek	3669	-1331	3670	-1332	3687	-1341	10	9
Stark Shale	3731	-1393	3729	-1391	3744	-1398	5	7
Hushpuckney	3751	-1413	3749	-1411	3763	-1417	4	6
Base Kansas City	3764	-1426	3762	-1424	3776	-1430	4	6
Marmaton	3792	-1454	3793	-1455	3808	-1462	8	7
Arbuckle	3871	-1533	3861	-1523	3877*	-1531	-2	8
Total Depth	3950	-1612	3951	-1613	3882	-1536	-76	-77

* = Sample Top

BIT RECORD

Bit #	Size	Make	Type	Serial Number	Depth In	Depth Out	Feet	Hours
1	12 1/4"	HTCO	G7-C1	5154778	0'	219'	219'	2
2	7 7/8"	H-C	GX20C	5191693	219'	3950'	3731'	96.00

SURFACE CASING RECORD

6.27.11 Ran 5 joints of new 23#/ft 8 5/8" casing, tallying 212.65', set @ 219' KB.
Cemented with 150 sacks of common, 3% CC, 2% gel, cement did circulate.
Plug down @ 2330 hrs 6.27.11. Drill out plug @ 0730 hrs 6.28.11.

DEVIATION SURVEY RECORD

Depth	Survey
219'	1/2 °
1744'	1/2 °
3880'	3/4°
3950'	3/4°

PIPE STRAP RECORD

Depth	Pipe Strap
3880'	1.43 Long to Board

DRILL STEM TEST REPORT

Weatherford®
Completion Systems

White Exploration, Inc.

2400 N Woodlawn
Ste 115 Wichita Ks 67220

ATTN: Derek Patterson

Wasinger #2

19s-9s21w, Grahan,Ks

Job Ticket: 43907 **DST#: 1**

Test Start: 2011.07.03 @ 08:00:42

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 12:52:42
Time Test Ended: 18:26:12

Test Type: Conventional Bottom Hole
Tester: Brett Dickinson
Unit No: 47

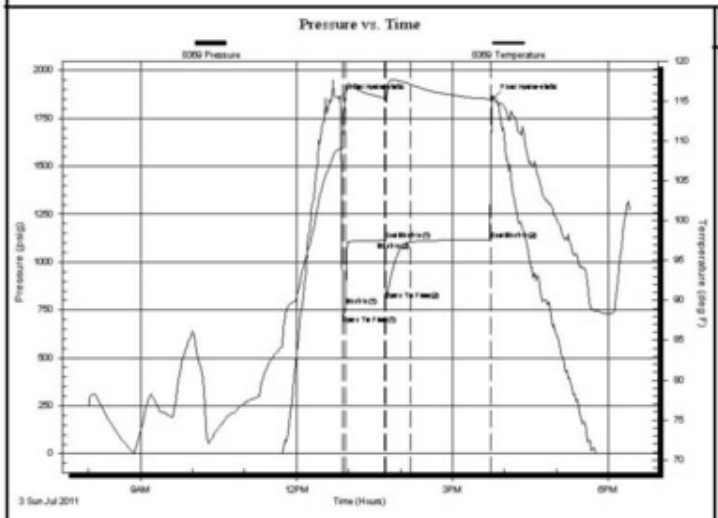
Interval: 3760.00 ft (KB) To 3880.00 ft (KB) (TVD)
Total Depth: 3880.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2342.00 ft (KB)
2337.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8369 **Outside**
Press@RunDepth: 1106.11 psig @ 3766.00 ft (KB)
Start Date: 2011.07.03 End Date: 2011.07.03
Start Time: 08:00:47 End Time: 18:26:12

Capacity: 8000.00 psig
Last Calib.: 2011.07.03
Time On Btm: 2011.07.03 @ 12:49:42
Time Off Btm: 2011.07.03 @ 15:47:12

TEST COMMENT: IF-BoB 15 sec
ISI-No Blow
FF-BoB in 30sec
FSI-No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1856.68	109.00	Initial Hydro-static
3	677.64	108.96	Open To Flow (1)
7	771.80	116.01	Shut-In(1)
52	1113.92	115.38	End Shut-In(1)
53	801.36	115.18	Open To Flow (2)
82	1106.11	117.07	Shut-In(2)
174	1117.98	115.23	End Shut-In(2)
178	1853.25	115.41	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1800.00	Water	23.57
560.00	MCW 70%W 30%M	7.86
80.00	Oilspotted MCW 55%W 45%M	1.12

Gas Rates

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

Weatherford®
Completion Systems

DRILL STEM TEST REPORT

White Exploration, Inc.

2400 N Woodlawn
Ste 115 Wichita Ks 67220

ATTN: Derek Patterson

Wasinger #2

19s-9s21w, Grahan,Ks

Job Ticket: 43908 **DST#: 2**

Test Start: 2011.07.04 @ 13:30:09

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened:
Time Test Ended: 18:07:09

Test Type: Conventional Straddle
Tester: Brett Dickinson
Unit No: 47

Interval: 3758.00 ft (KB) To 3872.00 ft (KB) (TVD)
Total Depth: 3951.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

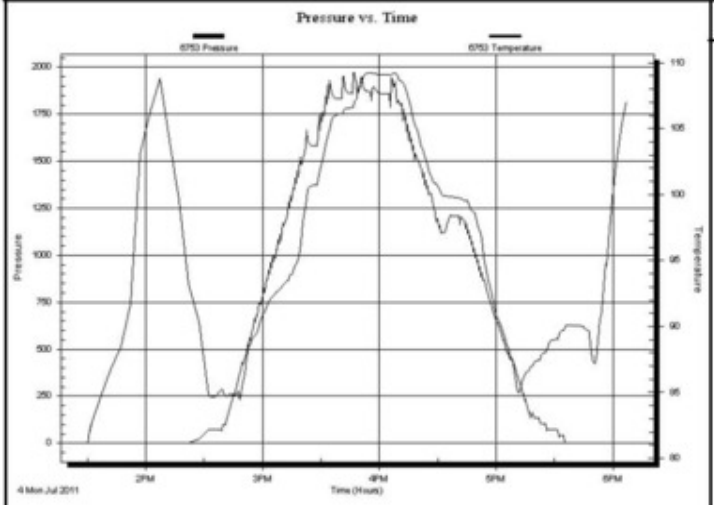
Reference Elevations: 2342.00 ft (KB)
2337.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6753

Press@RunDepth: psig @ ft (KB)
Start Date: 2011.07.04 End Date: 2011.04
Start Time: 13:30:14 End Time: 18:07:08

Capacity: 8000.00 psig
Last Calib.: 2011.07.04
Time On Btm:
Time Off Btm:

TEST COMMENT: IF-Packerfailure



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
300.00	mud	2.53

Gas Rates

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

DRILL STEM TEST REPORT

Weatherford®
Completion Systems

White Exploration, Inc.

2400 N Woodlawn
Ste 115 Wichita Ks 67220

ATTN: Derek Patterson

Wasinger #2

19s-9s21w, Grahan,Ks

Job Ticket: 43909 **DST#: 3**

Test Start: 2011.07.04 @ 18:40:56

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 20:31:19
Time Test Ended: 02:48:19

Test Type: Conventional Straddle
Tester: Brett Dickinson
Unit No: 47

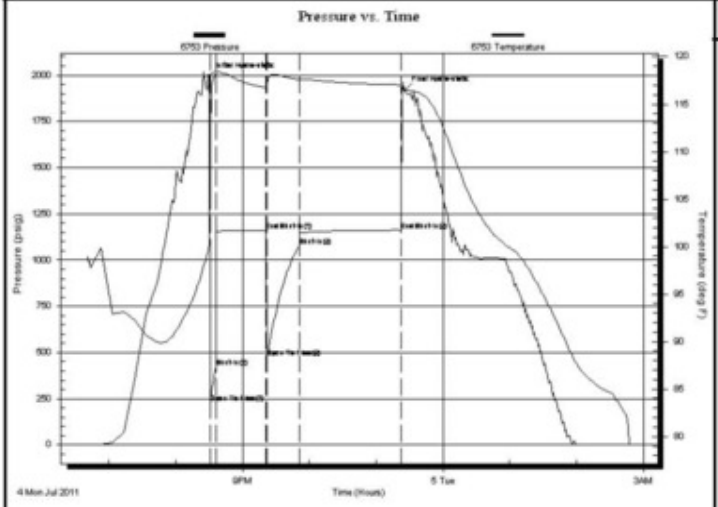
Interval: 3864.00 ft (KB) To 3871.00 ft (KB) (TVD)
Total Depth: 3951.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2342.00 ft (KB)
2337.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6753 **Outside**
Press@RunDepth: 1073.93 psig @ 3865.00 ft (KB)
Start Date: 2011.07.04 End Date: 2011.07.05
Start Time: 18:41:01 End Time: 02:48:18

Capacity: 8000.00 psig
Last Calib.: 2011.07.05
Time On Btm: 2011.07.04 @ 20:29:49
Time Off Btm: 2011.07.04 @ 23:25:49

TEST COMMENT: IF-BOB in 1min
ISI-No blow
FF-BOB in 1min
FSI-No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1993.31	99.92	Initial Hydro-static
2	229.33	111.31	Open To Flow (1)
6	420.88	118.12	Shut-In(1)
52	1161.63	116.73	End Shut-In(1)
52	473.93	117.01	Open To Flow (2)
81	1073.93	117.58	Shut-In(2)
173	1161.69	117.03	End Shut-In(2)
176	1918.27	116.54	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2230.00	Water	29.60
70.00	Oilspotted MCW 20%M 80%W	0.98

Gas Rates

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

ROCK TYPES

LITHOLOGY

- Anhy
- Bent
- Brec
- Cht
- Clyst
- Coal
- Congl
- Dol
- Gyp
- Igne
- Lmst
- Meta
- Mrlst
- Salt
- Shale
- Shcol
- Shgy
- Sltst
- Ss
- Till
- Sltstn
- Shale
- Sandylms
- Lms
- Gry sh
- Dtd
- Dol
- Carb sh
- pipesymbol
- unknown lith
- Red shale

FOSSIL

- Oomoldic
- Fuss
- Algae
- Amph
- Belm
- Bioclst
- Brach
- Bryozoa
- Cephal
- Coral
- Crin
- Echin
- Fish
- Foram
- Fossil
- Gastro
- Oolite
- Ostra
- Pelec
- Pellet
- Pisolite
- Plant
- Strom

MINERAL

- Slty
- Sand
- Dol
- Chlorite
- Anhy
- Arggrn
- Arg
- Bent
- Bit
- Brecfrag
- Calc
- Carb
- Chtdk
- Chtlt
- Dol
- Feldspar
- Ferrpel
- Ferr
- Glau
- Gyp
- Hvymin
- Kaol
- Marl
- Minxl
- Nodule
- Phos
- Pyr
- Salt
- Sandy
- Silt
- Sil
- Sulphur
- Tuff

STRINGER

- Red shale
- Sh
- Sandylms
- Lms
- Grysltt
- Grysh
- Dol
- Clystn
- Carbsh
- Anhy
- Arg
- Bent
- Coal
- Dol
- Gyp
- Ls
- Mrst
- Sltstrg
- Ssstrg

TEXTURE

- BS Boundst
- C Chalky
- CX Cryxln
- E Earthy
- FX Finexln
- GS Grainst
- L Lithogr
- MX Microxln
- MS Mudst
- PS Packst
- WS Wackest

OIL SHOW

- Gas show
- Good
- Fair
- Poor
- D Dead

INTERVAL

- Dst
- Core
- Dst
- Straddle test tail pip

EVENT

- Rft
- Sidewall
- Dst
- Open hole
- Perforations

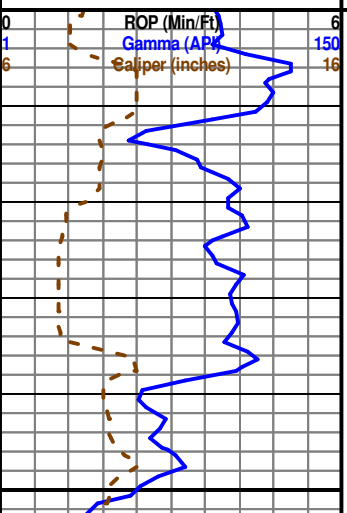
Curve Track 1

ROP (Min/Ft)
Gamma (API)
Caliper (inches)

Depth	Lithology	Oil Shows	Geological Descriptions	Engineering Data

Engineering Data

TG (Units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)
C5 (units)



White Exploration, Inc.
Wasinger #2
700' FNL & 2240' FEL
Sec. 19 - 09S - 21W
Graham Co., KS

API: 15-065-23744-0000

Elevation: 2333' GL
2338' KB

Drilling Contractor: Murfin Drilling Co.
Rig #8

Toolpusher: Rodney Farr

0 TG, C1-C5 50

Surface Casing:
5 JTS of 8 5/8" tallying
212.65' set @ 219' KB

Drillers: Daylight: James Hale
Evening: Travis Martin
Morning: Aaron Janousek

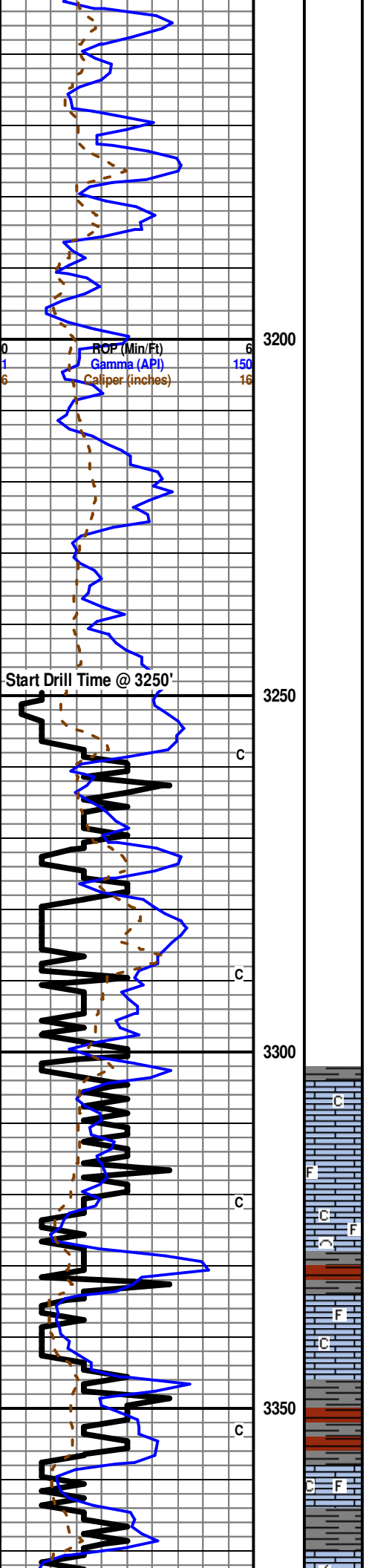
Mud Company: Mud-Co/Service Mud
Mud Engineer: Chuck Herbers

Testing Company: Trilobite Testing
Tester: Brett Dickinson

Logging Company: Log Tech
Logging Engineer: Brett Becker

Geologist: Derek W. Patterson

Displace Mud System @ 2932'



0 TG, C1-C5 50

Mud-Co Mud Ck
@ 3234'
1030 hrs 7.1.11
Vis 51 Wt 9.0
PV 15 YP 25
WL 8.0
Cake 1/32
pH 10.0
CHL 2,500 ppm
Cal 16
Sol 4.9
LCM: 4 #/bbl
DMC: $3,889.50
CMC: $9,532.80

Topeka 3304 (-966)

Limestone: cream lt cream lt tan, dense sub-chalky matrix, microxln, mostly barren, poor interxln porosity, no shows noted, no fluorescence.

Limestone: lt cream lt gray off white, softer chalky matrix, most heavily fossiliferous to bioclastic, fair interxln/interfossiliferous porosity in few pieces with most compact, no shows noted, no fluorescence.

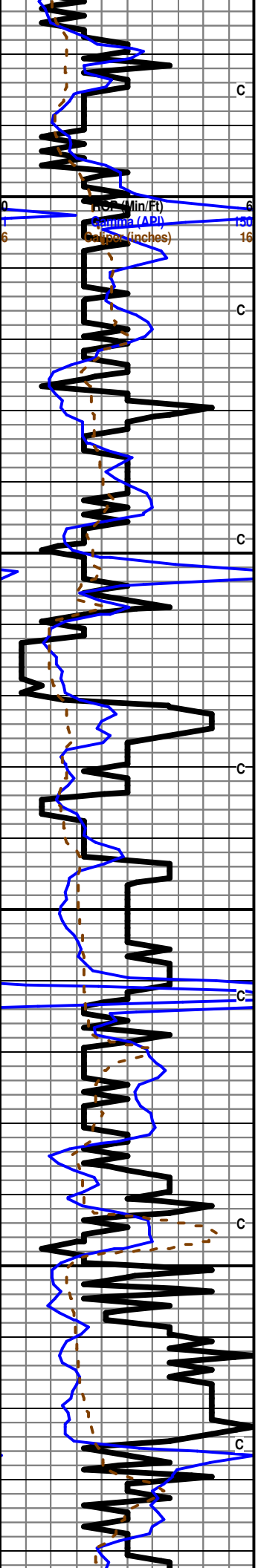
Vis: 52
Wt: 9.0
LCM: 3 #/bbl

Shale: gray dk gray some brick red, mostly blocky, soft to hard, some fissile.

Limestone: lt cream lt gray off white, softer sub-chalky matrix, fossiliferous with some heavily fossiliferous, overall poor interxln porosity, no shows noted, no fluorescence.

Shale: gray dk gray brick red, mostly blocky and hard with some scattered soft, fissile in part.

Limestone: cream gray, dense to sub-chalky softer matrix, micro-vfxln, fossiliferous in part, poor interxln porosity with some fair pinpoint porosity, no shows noted, no fluorescence.



Limestone: lt cream cream tan, softer chalky matrix, vf-fxln, mostly barren, fair-good interxln/small oomoldic porosity, no shows noted, no fluorescence.

Shale: gray dk gray brick red, mostly blocky and hard, scattered fissile.

Limestone: lt cream lt tan, dense sub-chalky matrix, micro-vfxln, fossiliferous in part, poor-fair interxln porosity, no shows noted, no fluorescence.

King Hill 3402 (-1064)

0 TG, C1-C5 50

Shale: black, carbonaceous, mostly hard and blocky, no show gas bubbles, with Shale: gray dk gray, blocky and hard, some fissile.

Geologist Derek W. Patterson on location, 1705 hrs 7.1.11

Limestone: tan cream gray, slightly dense sub-chalky matrix, micro-vfxln, fossiliferous, poor interxln porosity, no shows noted, no fluorescence, with interbedded Shale: gray dk gray brick red, blocky and hard.

Limestone: cream tan lt gray, dense sub-chalky matrix, micro-vfxln, fossiliferous, poor interxln porosity, no shows noted, no fluorescence.

Limestone: off white lt cream, dense tighter sub-cherty matrix, micro-cryptoxln, fossiliferous in part with abundant barren, poor visible porosity, no shows noted, very poor mineral fluorescence.

Shale: gray dk gray brick red, blocky and hard.

Limestone: off white lt cream, dense tighter sub-cherty matrix, microxln, fossiliferous in part, poor visible porosity, no shows noted, very poor mineral fluorescence in few pieces.

Queen Hill 3453 (-1115)

Shale: black, carbonaceous, mostly hard and blocky with some softer and waxy, no show gas bubbles, with Shale: gray dk gray, mostly blocky and hard.

Limestone: off white lt cream, sub-chalky softer matrix, vf-fxln, mostly barren, fair interxln/small oomoldic porosity in most, no shows noted, no fluorescence.

Limestone: off white lt cream lt gray, dense sub-chalky matrix, micro-vfxln, fossiliferous, some scattered 2ndary xln along edges in few pieces, overall poor visible porosity, no shows noted, no fluorescence.

Limestone: cream lt cream lt gray, dense tight matrix, micro-vfxln, granular, fossiliferous, poor interxln porosity, no shows noted, no fluorescence.

Heebner 3511 (-1173)

Shale: black, carbonaceous, blocky, soft and waxy, no show gas bubbles, with Shale: gray dk gray, blocky, soft and waxy.

Shale: gray dk gray green dk green brick red, blocky to round, mostly soft with some scattered hard, fissile in part, with Limestone stringers: cream lt cream mottled, dense sub-chalky matrix, micro-vfxln, granular, fossiliferous, poor interxln porosity, no shows noted, no fluorescence.

Toronto 3533 (-1195)

Limestone: off white lt cream, dense sub-chalky matrix, microxln, barren, poor visible porosity, no shows noted, little-no mineral fluorescence.

Shale: gray dk gray brick red, blocky and hard.

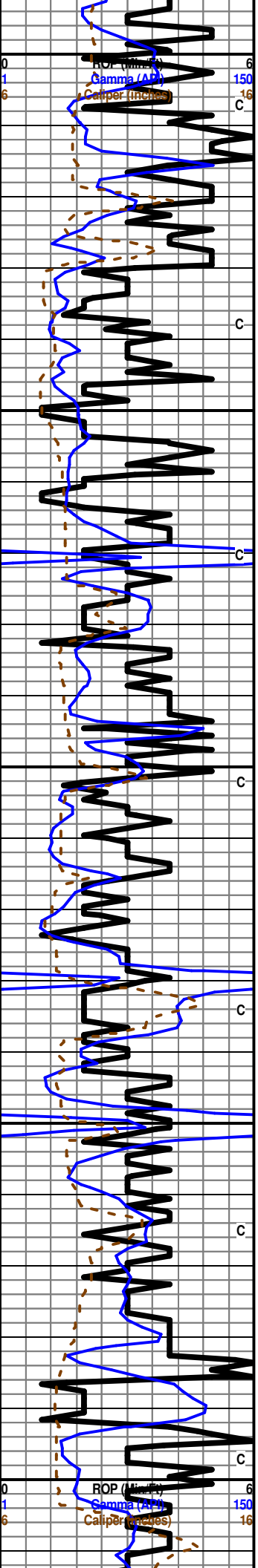
Lansing 3548 (-1210)

Limestone: cream lt gray, dense tight matrix, microxln, fossiliferous in part, poor visible porosity, no shows noted, no fluorescence.

Limestone: lt cream lt gray, dense cherty matrix, microxln, mostly barren, no visible porosity, no shows noted, no fluorescence, with scattered Chert: white, fresh and sharp, barren.

Shale: gray dk gray some brick red, mostly blocky and hard, abundant fissile.

Limestone: lt cream lt gray off white, dense cherty matrix, microxln, barren, no visible porosity, no shows



noted, no fluorescence, with continued Chert as above.

Shale: gray dk gray brick red some black, blocky, mostly hard with some softer and waxy, abundant fissile.

INTERBEDDED -- Limestone: lt cream off white lt gray, dense tight matrix, microxln, sub-cherty, mostly barren with scattered sub-oolitic, poor interxln porosity, no shows noted, little-no mineral fluorescence, with continued Chert, and Shale: gray dk gray brick red, blocky, mostly hard with some softer and waxy, abundant fissile.

3641' cfs 40"/60" - Limestone: white off white, micro-vfxln, fossiliferous to sub-fossiliferous, fair interxln porosity in most with some scattered vuggy porosity, poor show free dk brown oil from porosity upon break/left under lamp, most shows are tarry, fair dead dk brown oil staining along edges in most, only few pieces noted with shows, spotty bright lt yellow fluorescence, very poor cut fluorescence, very faint odor.

Limestone: lt cream off white lt tan, softer sub-chalky matrix, microxln-vfxln, fossiliferous in part, fair interxln porosity in most with trace fair oomoldic porosity, no shows noted, little-no mineral fluorescence.

Limestone: off white lt cream, softer sub-chalky matrix, micro-vfxln, fossiliferous with some oolitic, fair-poor interxln porosity, (1) piece with slight golden brown staining along edges, no show free oil, spotty bright lt yellow fluorescence in few pieces, no cut fluorescence, no odor.

Muncie Creek 3670 (-1332)

Shale: black, carbonaceous, mostly blocky and hard with some softer and waxy, fissile in part, no show gas bubbles, with Shale: gray dk gray brick red green, blocky and hard with some scattered softer and waxy, fissile.

Limestone: lt cream off white lt gray, dense tight slightly chalky matrix, micro-cryptoxln, scattered lithographic non-descript, trace sub-fossiliferous with most barren, poor visible porosity, no shows noted, very poor whitish-lt yellow fluorescence.

Shale: gray dk gray green brick red, mostly blocky and soft, waxy in part, some scattered fissile.

Limestone: lt cream off white, slighlty soft sub-chalky matrix, microxln, sub-fossiliferous to mostly barren, poor interxln porosity, (1) piece with very poor show live lt brown oil and poor saturated stain, little increase upon break, even to spotty pale lt yellow fluorescence, poor cut fluorescence in show piece, no odor.

Limestone: off white lt cream, dense tight matrix, micro-cryptoxln with some scattered lithographic non-descript, nearly all barren, poor interxln porosity, no shows noted, poor whitish-lt yellow mineral fluorescence, no cut fluorescence.

Stark Shale 3729 (-1391)

Shale: black, carbonaceous, blocky, soft and waxy, no show gas bubbles, with Shale: gray dk gray green brick red, blocky, soft and waxy.

Limestone: off white lt gray lt cream, dense tight matrix, micro-cryptoxln, barren, scattered 2ndary xln, overall poor interxln porosity, few pieces with very poor golden brown staining along edges, no other shows noted, very poor fluorescence, no cut fluorescence, no odor.

Hushpuckney 3749 (-1411)

Shale: black, carbonaceous, blocky, soft and waxy, no show gas bubbles.
Limestone: off white lt cream, dense matrix, micro-vfxln, barren, scattered small solution vugs, poor interxln porosity with scattered fair vuggy porosity, (2) pieces with fair show free tarry brown oil in porosity with fair increase upon break/left under lamp, spotty lt yellow fl, fair cut fl in show rocks, no odor.

Base Kansas City 3762 (-1424)

Shale: gray dk gray green brick red, blocky, ranging from dense and hard to soft and waxy, scattered silty, with interbedded Limestone: cream lt cream off white, dense tight matrix, micro-cryptoxln, mostly barren, poor visible porosity, no shows noted, little-no mineral fluorescence.

Limestone: lt gray off white, dense tight matrix, micro-cryptoxln, barren, poor visible porosity, no shows noted, little-no mineral fluorescence.

Shale: brick red dk gray dk green purple, blocky, dense and slightly waxy, silty in part.

Marmaton 3793 (-1455)

Limestone: off white lt cream, microxln, barren, arenaceous, fair intergranular porosity in few with most poor interxln porosity, fair lt brown saturated stain in few pieces, most shows are a heavy tarry brown oil with a dead dk brown oil associated with stain, poor show free live oil upon break/left under lamp, poor pale yellow fluorescence, fair forced cut fluorescence, no odor.

Shale: gray dk gray brick red green some purple, blocky, dense and slightly waxy.

0 TG, C1-C5 50

Vis: 68
Wt: 9.4
LCM: 3 #/bbl

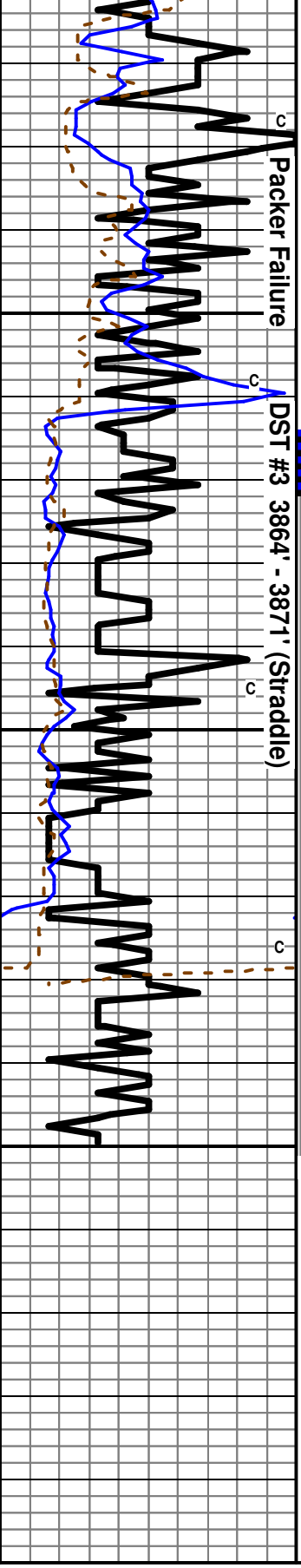
cfs @ 3641'

Mud-Co Mud Ck
@ 3658'
0715 hrs 7.2.11
Vis 69 Wt 9.6
PV 18 YP 32
WL 10.4
Cake 1/32
pH 8.5
CHL 2,400 ppm
Cal 132
Sol 9.1
LCM: 4 #/bbl
DMC: $1,621.00
CMC: $11,153.80

Vis: 53
Wt: 9.4
LCM: 3 #/bbl

Vis: 59
Wt: 9.4
LCM: 3 #/bbl

0 TG, C1-C5 50



Sandstone: off white lt gray dolomitic calcareous matrix, vf-f grained, sub-rounded fairly-well sorted clear silica grains, fair intergranular porosity, friable to fairly cemented, fair-good dk brown saturated stain, fair show dk brown oil upon break in few pieces with most shows still heavy and tarry, increase in shows from above, very poor spotty dk yellow fluorescence in few pieces, fair yellowish-white cut fluorescence, no odor, with continued Shale as above.

Conglomerate: Shale: brick red brown dk gray dk green, mostly blocky and hard, with Limestone: lt cream off white, softer sub-chalky matrix, microxln, barren, poor visible porosity, no shows noted, even lt whitish-yellow mineral fluorescence, Limestone: lt gray purple, dense cherty matrix, poor visible porosity, no shows noted, even off white mineral fluorescence, Chert: orange, opaque, fresh and sharp, no shows, and some scattered Chalk in sample, still carrying minor shows from above?

Conglomerate: Abundant Shale: brick red brown dk gray dk green, blocky and hard, with Limestone: mixed as above with decrease in chalky facies, Chert: orange, opaque, fresh and sharp, barren, no shows, trace Sandstone: well cemented, poor intergranular porosity, no shows noted, continued scattered Chalk in sample, and trace continued shows from above?

Arbuckle 3861 (-1523)

3871' cfs 20" - Conglomerate as above, few pieces with slight show oil upon break, 1) chalky Limestone and 2) trace Sandstone: clear rounded grains, fairly sorted and cemented, fair intergranular porosity, fair-good show free brown oil upon break, possibly from above?, no Dolomite in sample.

3871' cfs 40"/60" - Dolomite (1%): tan lt tan, dense matrix, vf-fxln, fair rhombic development, fair interxln/rhombic porosity, good golden brown saturated stain, poor show free brown oil with fair increase upon break, even bright yellow fluorescence, streaming yellowish-white cut fluorescence, very faint odor in sample.

3876' cfs 40"/60" - Dolomite: as above with trace coarsexln, good rhombic development, good rhombic porosity, continued shows as above.

3880' cfs 40"/60" - Dolomite as above, few coarsexln with majority fxln, some pyrite inclusions in a few pieces, still carrying abundant Shales from above, <5% of sample Dolomite.

Resume Drilling Following DST #1, 2115 hrs 7.3.11

3890' cfs 30"/45"/60" (3881'-3890') - Dolomite: cream tan pink, dense tight matrix in most, vfxln, poor rhombic development, pyritic in part, overall poor interxln/rhombic porosity with abundant xln fill, trace golden brown saturated stain, poor show free lt brown oil with slight increase in few pieces upon break/left under lamp, even bright lt yellow fluorescence, fair-poor forced bright white cut fluorescence, moderate-fair odor, still carrying abundant Shale: most teal green, blocky and hard.

3900' cfs 30"/45"/60" (3891'-3900') - Dolomite: lt cream tan, dense matrix, vf-coarsexln, fair-good rhombic development, pyritic in part, fair interxln/rhombic porosity with abundant 2ndary xln between xln faces, few slightly stained pieces, poor show free lt brown oil with little increase upon break/left under lamp, even bright lt yellow fluorescence, poor cut fluorescence, faint odor, with continued Shale.

(3901'-3908') - Dolomite: as above, still carrying good amount of lt brown-brown saturated stained pieces, few pieces with very poor show free brown oil upon break, even bright lt yellow fluorescence, fair-poor cut fluorescence, faint odor, and Shale.

(3909'-3920') - Dolomite: lt cream lt tan, mostly dense matrix, fxln-coarsexln, fair-good rhombic development, fair-good interxln/rhombic porosity in most, fair lt brown staining in most pieces, very slight trace free lt brown oil upon break in few pieces and trace heavy black tarry oil in few, overall very poor show free oil, even bright lt yellow fluorescence, poor-fair cut fluorescence, faint odor, and continued Shale.

(3921'-3950') - Dolomite: lt gray off white lt cream, mostly dense matrix, fxln-coarsexln, fair-good rhombic development grading to poor tight xln development, fair-good rhombic porosity in most with abundant 2ndary xln and chalk fill, few with fair brown sat staining and dead tarry black oil staining along edges and trace in porosity, no live shows noted, even bright lt yellow fluorescence, minor cut fluorescence, no odor, with continued abundant teal green Shale.

cfs @ 3871'
Vis: 58
Wt: 9.4
LCM: 4 #/bbl
cfs @ 3876'
cfs @ 3880'
Short Trip, 0050 hrs 7.3.11
TOH for DST #1, 0445 hrs 7.3.11
cfs @ 3890'
Mud-Co Mud Ck @ 3880'
0548 hrs 7.3.11
Vis 51 Wt 9.5
PV 12 YP 26
cfs @ 3900'
WL 9.6
Cake 1/32
pH 9.5
CHL 2,000 ppm
Cal 20
Sol 9.1
LCM: 5 #/bbl
DMC: $2,025.80
CMC: $13,179.60
Vis: 53
Wt: 9.3
LCM: 2 #/bbl
cfs @ 3950'
TOH for Logging, 0345 hrs 7.4.11

RTD 3950 (-1612)
LTD 3951 (-1613)

Rotary TD @ 3950', 0215 hrs 7.4.11
Log Tech Open Hole Logging TD @ 3951'
Commence Open Hole Logging Operations, 0730 hrs 7.4.11
Complete Open Hole Logging Operations, 1145 hrs 7.4.11
Orders Received to Plug and Abandon Well, 0045 hrs 7.5.11

Geologist Derek W. Patterson off location, 0715 hrs 7.5.11

Respectfully Submitted,
Derek W. Patterson