

**OPERATOR**

Company: Arcadian Resources, LLC  
 Address: 1302 Olive Street  
 Concordia, KS 66901-4900

Contact Geologist: James Deverman  
 Contact Phone Nbr: (785)-639-1808  
 Well Name: Tinley #1-24  
 Location: Section 24-2S-27W  
 API: 15-039-21258-00-00  
 Pool: Wildcat  
 State: Kansas

Field: Unnamed  
 Country: USA

**Scale 1:240 Imperial**

Well Name: Tinley #1-24  
 Surface Location: Section 24-2S-27W  
 Bottom Location: 760' FNL 910' FEL  
 API: 15-039-21258-00-00  
 License Number: 35252  
 Spud Date: 2/6/2019 Time: 12:00 AM  
 Region: Decatur County, Kansas  
 Drilling Completed: 2/13/2019 Time: 6:30 PM  
 Surface Coordinates: 760' FNL & 910' FEL  
 Bottom Hole Coordinates:  
 Ground Elevation: 2650.00ft  
 K.B. Elevation: 2659.00ft  
 Logged Interval: 0.00ft To: 0.00ft  
 Total Depth: 0.00ft  
 Formation: Lansing/Kansas City  
 Drilling Fluid Type: Chemical / Polymer

**SURFACE CO-ORDINATES**

Well Type: Vertical  
 Longitude:  
 Latitude:  
 N/S Co-ord: 760' FNL  
 E/W Co-ord: 910' FEL

**LOGGED BY**

Company: Arcadian Resources, LLC  
 Address: 1407 N. Stratford Ln.  
 Wichita, KS 67206

Phone Nbr: (316)-619-5574  
 Logged By: Geologist

Name: Patrick J Denihan

**CONTRACTOR**

Contractor: Duke Drilling Company, Inc.  
 Rig #: 4  
 Rig Type: mud rotary  
 Spud Date: 2/6/2019 Time: 12:00 AM  
 TD Date: 2/13/2019 Time: 6:30 PM  
 Rig Release: 2/17/2019 Time: 3:30 AM

**ELEVATIONS**

K.B. Elevation: 2659.00ft Ground Elevation: 2650.00ft  
 K.B. to Ground: 9.00ft

**NOTES**

Surface Casing: 8-5/8" at 264'

Prod. Casing: Not Applicable

ARCADIAN RESOURCES, LLC  
 DECATUR CO., KS.

LOC : SEC.24-T2S-R27W 760' FNL & 910' FEL  
 ELEVATION= GL. 2650' KB. 2659'

Daily Penetration: 02/06/19 MIRU

02/07/19	264'	SPUD @ 12:40 AM -- Set Surface @264'	
02/08/19	264'	Drilled out Plug @ 1:45 PM	
02/09/19	1541'		
02/10/19	2385'	Pulled Leaking Kelly 3889'	****
02/11/19	2889'	Put New Kelly on at 1:30 PM	****
02/12/19	3052'		****
02/13/19	3564'		****
02.14/19	3680'		****
02/15/19	3710'		****
02/16/19	3943'	Run Pipe in Hole	****
02/17/19	3943'	Pulling out pipe and laying Down Pipe For Plugging Well	*

### DRILL STEM TESTS

DST #1 (3554' - 3682') (Lans. D-J) (30"- 45" - 10" -Packer Failure)  
 IF: BOB in 11" Built to 68  
 ISI: Very Weak surface Blow Back  
 FF: BOB in 4.25 Miutes-Lost Packer seat. Pulled Tool  
 REC: Oil Spots in Test Tool: 125' WM (53% Mud; 47% Wtr.): 435' of MCW (87% Wtr; 13% Mud) 685 WCM  
 ( 73% Mud;27% Wtr: 185' Mud.  
 IFP: 51#/281# FFP: 289#/ 303# ISIP: 1059# FSIP: 436# ( Losing Packer Seat )  
 IHP: 1747# FHP 1632#

DST #2 (3677' - 3698') (Lans. K) (15"- 45" - 30" - 60")  
 IF: BOB in 11 Sec. Built to584.5" in 15 Sec or Less  
 ISI: No Blow Back  
 FF: BOB in 1Min. Built to 71"  
 FSI: No Blow Back  
 REC: 2055' MW (97% Wtr; 3% Mud) 185' MCW (75% Wtr.; 25% Mud) 235' WM (52% Mud; 45% Wtr.)  
 IFP: 785#/1182# FFP: 1132#/1159# ISIP: 1164# FSIP: 1165#  
 IHP: 1837# FHP: 1785#







DST # 3 (STRADDLE) (3475' - 3528') (Lans. A) (35" - 35" - 45" - 45")  
 IF: Blow built to 4"  
 ISI: No Blow Back.  
 FF: Built to 1"  
 FSI: Bo Blow Back  
 REC: 55' WCM (80% Mud; 11% Wtr.)  
 IFP: 29#/41# FFP:44#/46# PKR Slipped (Re-Set) ISIP: 1681# FSIP: 969#  
 IHP: 1723# FHP: 1688#

### GEOLOGICAL TOPS

Formation	Sample Top	Datum	Log	Datum
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Formation	Sample Top	Bottom	Log	Bottom
Anhydrite	2155	(+504)	2156	(+505)
Base/Anhy.	2190	(+469)	2189	(+470)
Howard	3263	(-604)	3271	(-612)
Topeka	3300	(-647)	3311	(-652)
Oread	3342	(-783)	3356	(-697)
Heebner	3466	(-807)	3479	(-820)
Toronto	3496	(-837)	3511	(-852)
Lansing	3507	(-848)	3520	(-861)
B/KC	3721	-1068	N. L.	N. L.
Marm.	3734	-1075	N. L.	N. L.
Ft.Scott	3800	-1141	N. L.	N. L.
Cher. Sh.	3828	-1169	N. L.	N. L.
Basal Penn SD	3880	-1221	N. L.	N. L.
Granite Wash.	3885	-1226	N. L.	N. L. .
Total Depth	3943	-1284	N. L.	N. L. Lost Circ.

### ROCK TYPES





 Anhy vert	 Lmst fw7>	 Ss
 Coal	 shale, gry	 Meta

### OTHER SYMBOLS

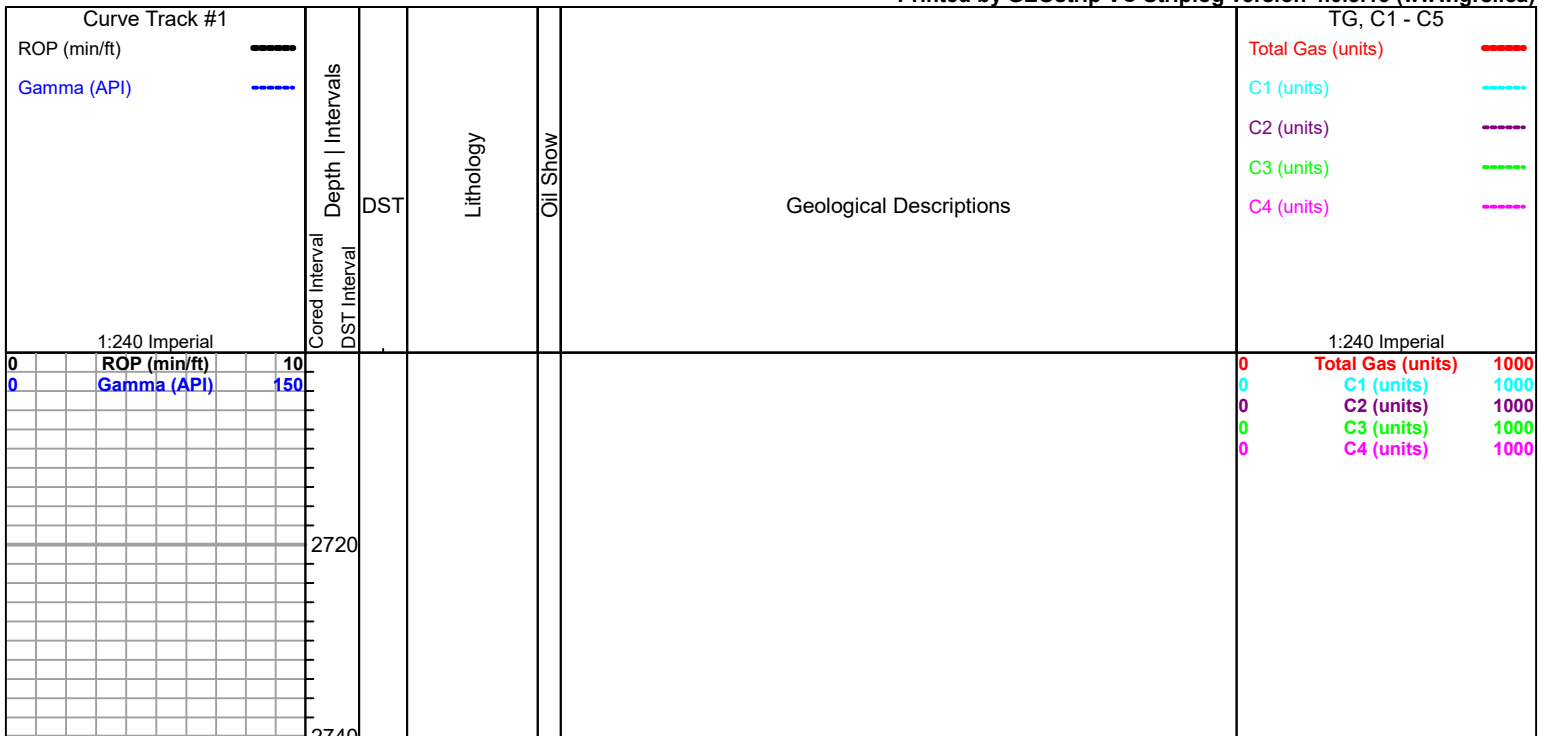
#### Oil Show

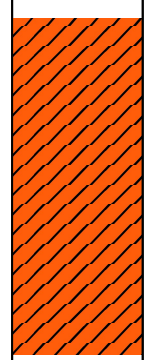
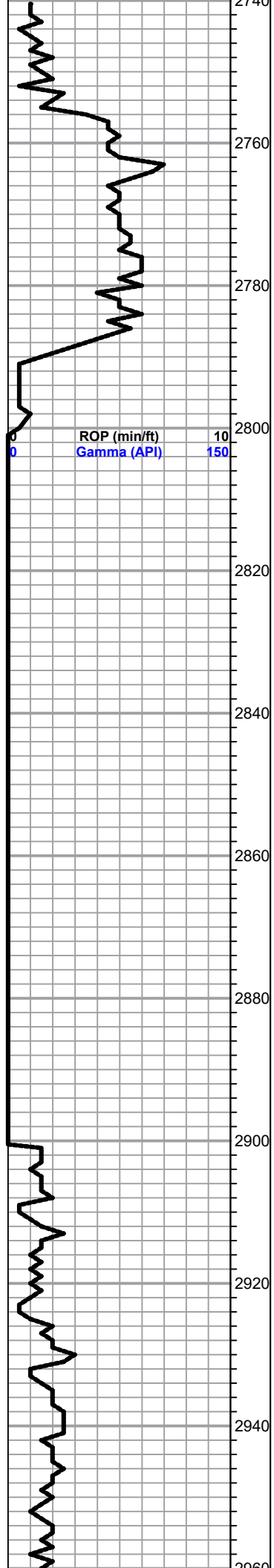
- Good Show
- Fair Show
- Poor Show
- Spotted or Trace
- Questionable Strn
- D Dead Oil Strn
- Fluorescence
- \* Gas

#### DST

-  DST Int
-  DST alt
-  Core
-  tail pipe

Printed by GEOstrip VC Striplog version 4.0.8.15 (www.grsi.ca)





Anhydrite 2156 (+505 )

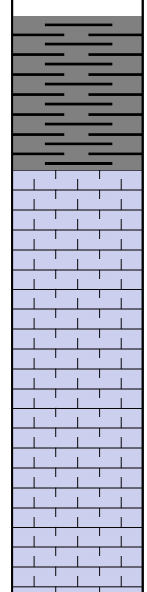
Base/Anhy. 2188 (+471 )

0	Total Gas (units)	1000
0	C1 (units)	1000
0	C2 (units)	1000
0	C3 (units)	1000
0	C4 (units)	1000

Kelly Leaking ( tried to weld 4 times )

On 2-10-19 At 6:30pm we pulled the Kelly at 2889'  
The new Kelly Showed up about 1:20pm On 2-11-19

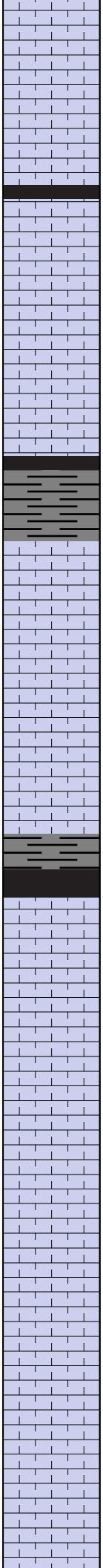
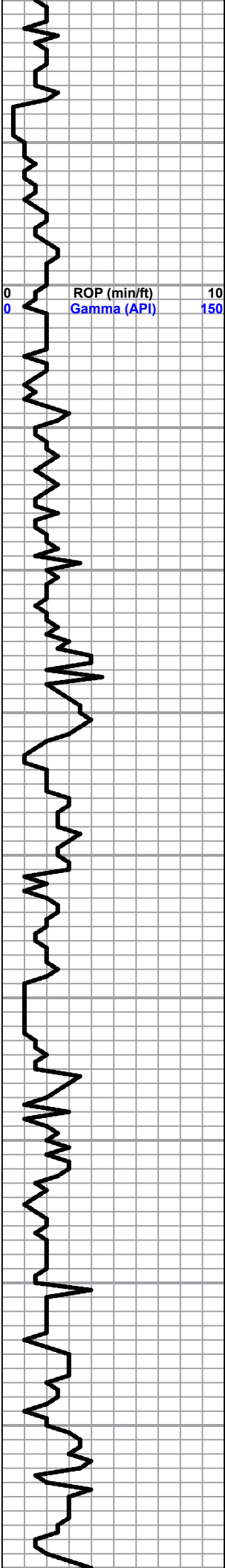
On 2-11-19 the new Kelly showed up around  
1:20pm began drillin at 4:50pm.



Neva 2916 (-257 )

2900  
2980  
3000  
3020  
3040  
3060  
3080  
3100  
3120  
3140  
3160  
3180

ROP (min/ft) 10  
Gamma (API) 150

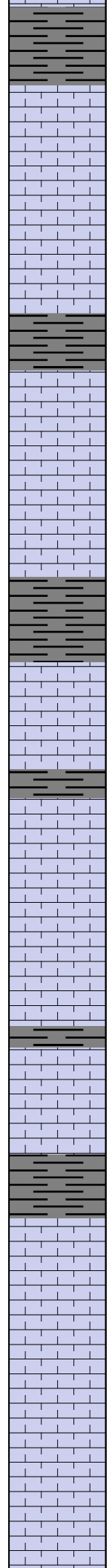
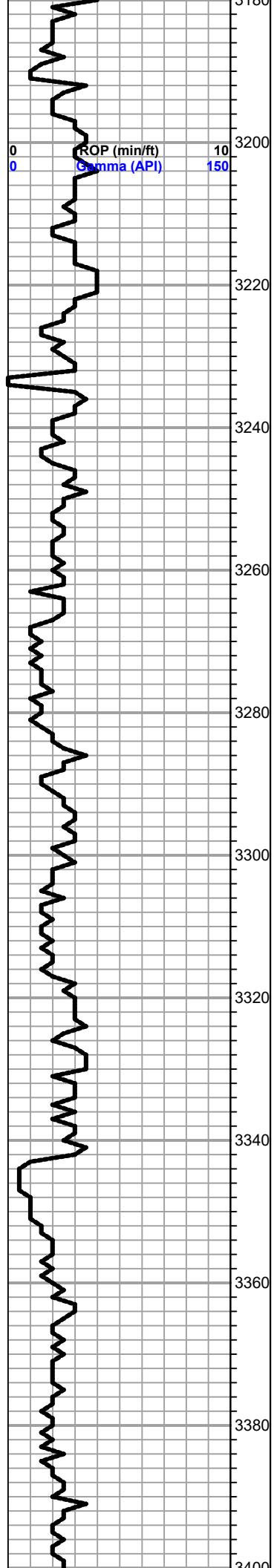


Displaced Mud @ 2971'

Foracre 3036 (-377 )

Total Gas (units) 1000  
C1 (units) 1000  
C2 (units) 1000  
C3 (units) 1000  
C4 (units) 1000

Mud Check @ 3000'  
Vis: 66  
WT: 8.7  
LCM: 6#



Sh., Lime Grn., Brn gummy to Argil.

Ls., Tan to Brn., ry to Dk-Gry., Micro to Fn-xln., Trc. of Cherty Lm. and P-Fssl. No show.

Ls., Gry., Tan., Brn., Micro., and Fn-xln Dense No., Show

Sh., Gry., Grn., Brn., Argil to Gummy

**Elmont 3240 (- 573)**

Ls Gry., Tan., Crm., Dense Fn-xln. No Show.

Ls., Wht., Tan, Lt-Gry Fn-xln., Chalky. P-Ool por.

Sh., Gr.,Dk-Gry Tan., Brn., Grn. Argil.

Sh.,Gry., Grn., Brn. Aril.

**Howard 3272 (-613)**

Ls., Abund Wht., Chalk., with Gry Dense Micro -xln., trc of Fra. Fssl. No show.

Sh., Vari-Color. (Lt-Gry., Blk. Lime Grn) Argil. Brn. very gummy..

Ls., Gry., Tan, Fn-xln. Dense. Trc. of P-ool to sib-Cherty Lm No show

**Topeka 3311 (-652)**

Ls., Lt. to Med-Gry., Tan. to Brn.Dense Fn-xln. to blocky. Trc of P-Ool. Por. No Show.

Ls., Wht. Chalky to Fn-xln. Crm to Brn Fn-xln to Ool.

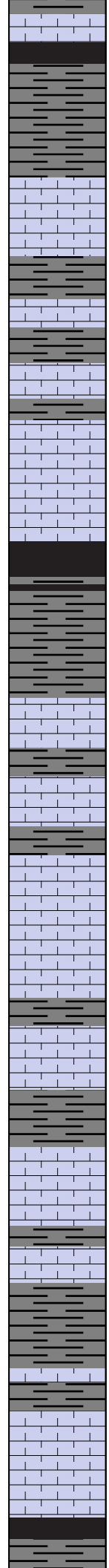
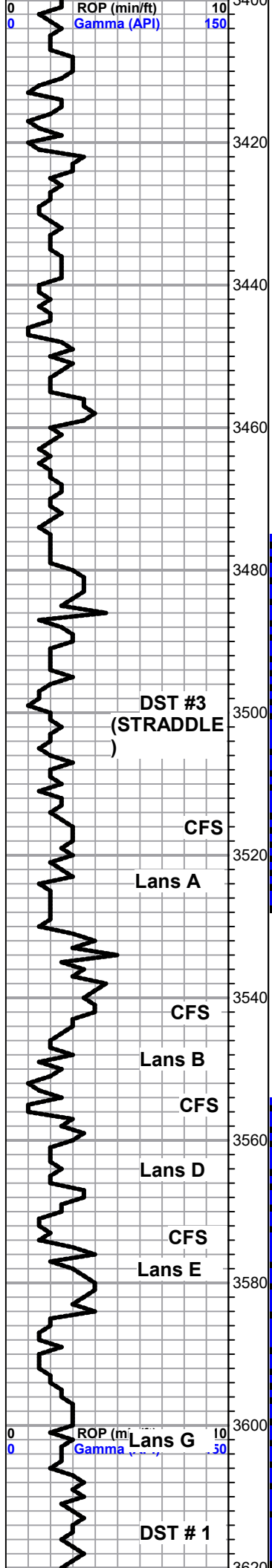
Sh., Vari-Color. Silty and Aril.

Ls., Wht., Crn., Lt-Cry., Fn-xln to Chalky. No Show

Ls., As/Above. No show.

0	Total Gas (units)	1000
0	C1 (units)	1000
0	C2 (units)	1000
0	C3 (units)	1000
0	C4 (units)	1000

**Andy's Mud Check @ 3262'**  
**Vis: 65**  
**WT: 8.9**  
**WL: 7.2**  
**CHL: 750**  
**Lcm: 3.5 #**



Sh., Gry. to Dk-Gry. Argil.

**Queen Anne Shale 3406 (-747)**

Sh., Black Carb.

Sh., Gry to Dk-Gry, Maroon, Lime Grn. Brn., and Trc of Blk. Argill., Calc., Gummy.

**Oread 3426 (-767)**

Ls., Crm., Tan., Dense Micto to Fn-xln. No show.

Sh., Gry., Grn. Argil. Brn Gummy.

Ls., Crm., Lt-Brn., Fn-xln., to sub-Chalky. No show.

Sh., Gry., Grn. & Brn.

Sh., Vari-Color.

Ls., as/above with Crm fresh opaque chert.V-P-Ool Porosity., Sub Chalky. No Show

**Heebner 3476 (-817)**

Sh., Black Carb.

Sh., Vari-Colored.Aril to Gummy Trc. of Carb. Blk and Gry.,

Ls., Crm., Tan., Fn-cln with Trc of V-Fssl.Por. No show

**Toronto 3511 (- 852)**

Ls Crm., Lt-Gry. Dense Micro-xln., No Vis. Por., No show.

Sh., Predom. Brn.- Gummy with Lime Green and Gry. Argil.

**Lansing 3520 (-861)**

Ls., Tan to Lt.-Gry., Fn- xln., Sli-Fssl. very small oolites carrying Black oil Spots. Very Friable. No Free oil

Ls., Lt-Gry to Gry Dense Micro-to Fn-xln Por. No Show

Sh., Gry., Lime Grn. to Grn. Argil. Reddish Brn.Gummy

Ls., Wht., Fn-xln., F-Fssl Por. Fra to Ool. shallow small vugular Porosity., Sub-Chalky Fair to G. Odor Barren to Scattered Oil LFO beads., Dk Brn to Black., No Fluor

Sh., Brn and Gry.

Ls., Crm., Fn-xln. to Fssl. Sli-Ool

Sh., Gry., Brn., Aril.

Ls., Lt-Gry to Gry. moddled Dense Micro-xln. No Vis show of Porosity. No Show

Sh.,Vari-Color. Aril to Brn. Gummy

Sh., Gry and Brn.

Ls., Wht., Lt-Gry. Fn-xln to Micro-xln. No show.

Sh., Black Carb.

Sh., Gry to Dark Gry. Aril, Abund. Brn., Aril. No show

0	Total Gas (units)	1000
0	C1 (units)	1000
0	C2 (units)	1000
0	C3 (units)	1000
0	C4 (units)	1000

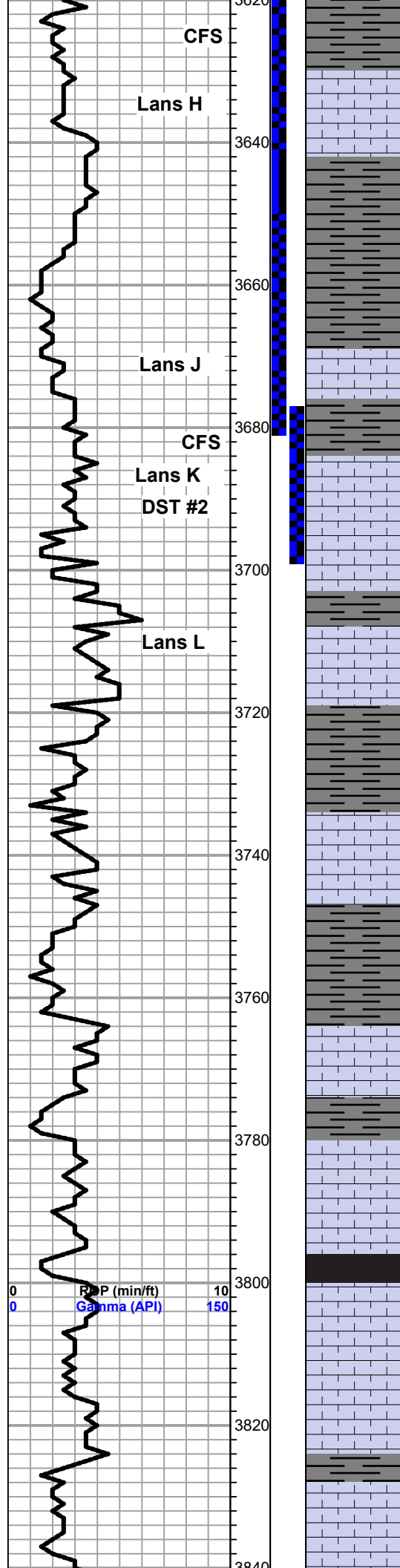
**Rig Mud Check @ 3450'**

Vis: 61  
WT: 9.0  
LCM: 3#

**Rig Mud Check @ 3575'**

Vis: 59  
WT: 9.1  
LCM: 3#

0	Total Gas (units)	1000
0	C1 (units)	1000
0	C2 (units)	1000
0	C3 (units)	1000
0	C4 (units)	1000



CFS

Lans H

Lans J

CFS

Lans K

DST #2

Lans L

**BKC 3718 (-1059)**

**Marmaton 3734 (-1075)**

**Labette Sh. 3796 (-1137)**

**Ft. Scott 3800 (1141)**

**Cher. Sh. 3828 (-1169)**

Ls., Wht., Crm. Sli-Fssl., abund.Wht. Fn-xln., to Sli-Fssl. por. Trc of good vugular por with oil Stn., Trc of Liht Brn Free Oil. Abund wht Barren Fn-xln Ls.

Sh., B lack Carb.

Ls., Wht., Crm., Dense Fn-xln., Trc. of Fssk sub chalky No Show

Sh., Black., Brn. and Gry., Argil.

Ls., Chert-Dolo. to Edge Tripolitic. G-Inter-granular Porosity with Lt-Brn. Free Oil and abund Gilsonitic to Black Tarry oil. Diesel Odor as above. Zone Torqued while drillin it

Ls., Lt-Gry., Gry. Micro-xln. No Show.

Sh., Abund. Vari-Color,

Ls., Lt-Gry. Dense Fn-xln. No show.

Sh., Gry., Brn., Grn. Samples washing Brn.

Ls., Brn., Gry. Dense Fn-xln., Sub-Chalky. No show.

Sh., Gry., Grn., Brn. Aril

Ls., Lt-Gry to Gry. Dense Micro-xln. No show.

Ls., Crm to Lt-Brn., Dense Fn-xln., Trc of Frag. Fssl. Sub-Chalky with depth. No Show.

Ls., Wht., Crm., Lt-Brn., & Lt-Gry. Dense Micro to Fn-xln. sub-Chalkt to Chalky with depth. No Show

**Andy's Mud Check @ 3625'**

Vis: 55 WT: 9.3  
 WL: 7.7 CHL:  
 750  
 LCM: 4#

Replaced 40' Kelly with 35,5' long Kelly (Including 2' sub) At 2688' was never corrected and Pipe Strap was 6'short to Board after test. Net Gain is 2' Short to board)

**Andy's Mud Check @ 3680**

Vis: 61 WT: 9.2  
 WL: 7.6 CHL:  
 2500  
 LCM: 3#

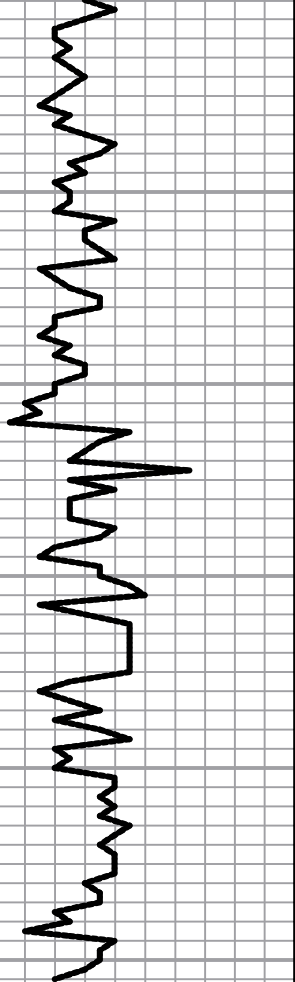
**Andy's Mud check @ 3786'**

Vis: 57 WT: 9.3  
 WL: 7.6 CHL:  
 3500  
 Lcm: 3 #

0	Total Gas (units)	1000
0	C1 (units)	1000
0	C2 (units)	1000
0	C3 (units)	1000
0	C4 (units)	1000



3840  
3860  
3880  
3900  
3920  
3940  
3960  
3980



**Cher. Lm. 3859 (-1200)**

Sh., Black Carb.  
Ls., Crm., Lt-Brn., Lt Gry., Fn-xln to P-Fssl., Frag. No Show.

**Basal Penn. Sand 3880 (-1221)**

SS, Wht. frosty to Clear., Sorted, Free Qtz. Some Clusters, Well Rd. to Sub-angular. Friable. No Show, No Odor No Fluor.

**Granite Wash 3885 (-1226)**

Granite., Pink to Red., Feldspar. Quartz Non Friable., Silic-Matrix. Dense Micro-xln and Domitic. No Odor No Fluor. No show

A/A

A/A

A/A with med Grained SS., Not Friable and attached to Feldspar and Granite. No odor No Fluor. No show.

**LOST CIRCULATION @  
3943' while Circulating  
For Samples. Pulled Off  
Bottom Got Circ. Back.  
Came out of hole For  
Log. Logged Past last  
Sample Show. To 3700'**