



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1151163
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- Confidentiality Requested
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____



1151163

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR: _____ Producing Method:
 Flowing Pumping Gas Lift Other *(Explain)* _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
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Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Mark Sievers, Chairman
Thomas E. Wright, Commissioner
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

July 10, 2013

Steven Thomason
Thomason Petroleum, Inc
2717 Canah Blvd.
PO BOX 875
HAYS, KS 67601

Re: ACO1
API 15-065-23893-00-00
Lambert A-Desair Unit 1
SE/4 Sec.01-10S-21W
Graham County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
Steven Thomason

Thomason Petroleum, Inc.

Scale 1:240 Imperial

Well Name: Lambert 'A'-Desair Unit #1
Surface Location: 950' FSL and 2490' FEL
Bottom Location:
API: 15-065-23893-0000
License Number: 9957
Spud Date: 4/16/2013 Time: 3:15 PM
Region: Graham County
Drilling Completed: 4/22/2013 Time: 12:15 AM
Surface Coordinates:
Bottom Hole Coordinates:
Ground Elevation: 2236.00ft
K.B. Elevation: 2244.00ft
Logged Interval: 3200.00ft To: 3930.00ft
Total Depth: 3900.00ft
Formation: Arbuckle
Drilling Fluid Type: Chemical/Fresh Water Gel

OPERATOR

Company: Thomason Petroleum, Inc.
Address: 2717 Canal Blvd.
P.O. Box 875
Hays, KS 67601
Contact Geologist: Steven Thomason
Contact Phone Nbr: 785-625-9045
Well Name: Lambert 'A'-Desair Unit #1
Location: 950' FSL and 2490' FEL
Pool: API: 15-065-23893-0000
State: Kansas Field: Cooper
Country: USA

LOGGED BY



Company: Valhalla Exploration, LLC
Address: 133 N. Glendale
Wichita, KS 67208
Phone Nbr: 316-210-1295
Logged By: Geologist Name: Adam G. Nighswonger

REMARKS

After review of the geological log, electric logs, and drill stem tests, operator chose to run 5 1/2" production casing to further evaluate the Arbuckle. It should be noted that due to comparisons in drill time and gamma ray curves, all drill stem test intervals should be adjusted 1 foot deeper. The drill time was not adjusted on this geologic log.

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

Respectfully submitted,

Adam G. Nighswonger

GENERAL INFORMATION

Service Companies

Drilling Contractor: Discovery Drilling - Rig #1
Tool Pusher:
Daylight Driller:

Drilling Fluid: Mud-Co/Service Mud
Engineers: Gary Schmidtberger

Evening Driller:
Morning Driller:
Relief:

Logging Company: Nabors
Engineer: Ian Mabb
Logs Ran: DI, CDNL, Micro, Sonic

Gas Detector: Bluestem Environmental
Engineer: Sidney Edelbrock
Unit: 0563
Operational By: 2400

Testing Company: Trilobite Testing
Tester: Jason McLemore

Deviation Survey	
Depth	Survey
215	3/4 deg
3814	1 deg

Pipe Strap	
Depth	Pipe Strap

Bit Record								
Bit #	Size	Make	Type	Serial Number	Depth In	Depth Out	Feet	Hours
1	12 1/4"	Smith	JZ BITS	439 R	0'	222'		
2	7 7/8"	Smith	HTC	GX20C	222'	3900'		

Surface Casing
Ran 5 joints new 23# 8 5/8" surface pipe (Tally @ 212'), set @222'. Cement by Quality, w/150 sacks common, 2% gel, 3% cc, cement did circulate, completed @ 7:30 pm 4.16.13.

Production Casing
Ran 3898' of 5 1/2" production casing 15.5# by Quality, pumped 550 sx, cement did circulate, plug down @ 7:00p.m. 4.22.13.

DAILY DRILLING REPORT

Date	0700 Hrs Depth	Previous 24 Hours of Operations
4/20/2013	3664'	Drilling and connections Topeka. Geologist Adam G. Nighswonger on location 1700hrs 4.19.13. Drilling and connections Topeka, Heebner, Toronto, and into Lansing. Made 575' in past 24 hours of operations. DMC: \$0.00 CMC: \$6,029.90

4/21/2013 3822' Drilling and connections Lansing, Marmaton, Basal Pennsylvanian, and into Arbuckle. CFS@ 3810' & 3814' (ARBK). Shows warrant test. Conduct test, test successful, CTCH. Resume drilling into Arbuckle. CFS@ 3822' (ARBK).
Made 158' in past 24 hours of operations.
DMC: \$0.00 CMC: \$6,029.90

4/22/2013 RTD 3900' Resume drilling and connections Arbuckle. CFS@ 3828' (ARBK). TOH for DST #2, conduct test, test successful; CTCH. Resume drilling and connections Arbuckle, rat hole ahead to RTD 3900' reached 1215 hours 4.22.13. CTCH, drop survey, and TOH for logging. Commence logging operations 0430 hours. Logging completed at 0840 hrs. Geologist off location 0900hrs 4.22.13
Made 78' in past 24 hours of operations.
DMC: \$307.40 CMC: \$6,337.30

WELL COMPARISON SHEET

	Drilling Well				Comparison Well				Comparison Well			
	Thomason Petroleum - Lambert 'A'-Desair Unit #1 Sec. 1 - T10S - R21W 950' FSL & 2490' FEL (NW SW SW SE) 2244 KB				Thomason Petroleum - Lambert 'A' #1 Sec. 1 - T10S - R21W 1780' FSL & 2160' FEL (NE SW NW SE) Oil - Arbuckle 2230 KB				Thomason Petroleum - Desair #1 Sec. 1 - T10S - R21W 980' FSL & 1560' FWL (NW NW SE SW) Oil - Arbuckle 2261 KB			
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log
Topeka	3260	-1016	3261	-1017	3255	-1025	9	8	3269	-1008	-8	-9
King Hill	3354	-1110	3352	-1108	3346	-1116	6	8	3361	-1100	-10	-8

Queen Hill	3404	-1160	3402	-1158	3399	-1169	9	11	3412	-1151	-9	-7
Heebner	3462	-1218	3460	-1216	3456	-1226	8	10	3472	-1211	-7	-5
Toronto	3487	-1243	3484	-1240	3481	-1251	8	11	3496	-1235	-8	-5
Lansing	3505	-1261	3501	-1257	3496	-1266	5	9	3512	-1251	-10	-6
LKC 'B'	3540	-1296	3540	-1296	3536	-1306	10	10	3549	-1288	-8	-8
LKC 'C'	3562	-1318	3560	-1316	3555	-1325	7	9	3570	-1309	-9	-7
LKC 'E'	3572	-1328	3575	-1331	3571	-1341	13	10	3585	-1324	-4	-7
LKC 'F'	3584	-1340	3585	-1341	3581	-1351	11	10	3594	-1333	-7	-8
LKC 'G'	3593	-1349	3596	-1352	3591	-1361	12	9	3603	-1342	-7	-10
Muncie Creek	3626	-1382	3625	-1381	3620	-1390	8	9	3633	-1372	-10	-9
LKC 'H'	3636	-1392	3636	-1392	3630	-1400	8	8	3643	-1382	-10	-10
LKC 'I'	3651	-1407	3656	-1412	3652	-1422	15	10	3662	-1401	-6	-11
LKC 'J'	3669	-1425	3674	-1430	3670	-1440	15	10	3684	-1423	-2	-7
Stark	3684	-1440	3688	-1444	3681	-1451	11	7	3695	-1434	-6	-10
LKC 'K'	3694	-1450	3697	-1453	3690	-1460	10	7	3703	-1442	-8	-11
Hushpuckney	3714	-1470	3713	-1469	3705	-1475	5	6	3721	-1460	-10	-9
LKC 'L'	3717	-1473	3718	-1474	3710	-1480	7	6	3725	-1464	-9	-10
Base Kansas City	3725	-1481	3724	-1480	3717	-1487	6	7	3730	-1469	-12	-11
Marmaton	3758	-1514	3756	-1512	3754	-1524	10	12	3763	-1502	-12	-10
Arbuckle	3804	-1560	3808	-1564	3803	-1573	13	9	3819	-1558	-2	-6
Total Depth	3900	-1656	3901	-1657	3892	-1662	6	5	3918	-1657	1	0

ROCK TYPES

 Chtcong1	 LMST2	 SHALE CAR	 SHALE RED
 DOL2	 LMST3	 SHALE GRN	
 LMST1	 SILTSTONE	 SHALE GRA	

ACCESSORIES

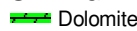
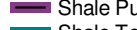
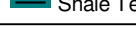
MINERAL

— Argillaceous
P Pyrite
△ Chert White
Mc Mica

FOSSIL

F Fossils < 20%
φ Oolite

STRINGER










 Dolomite2
 Shale Gray
 Shale Purple
 Shale Teal

TEXTURE


C Chalky
MX Microxln

OTHER SYMBOLS

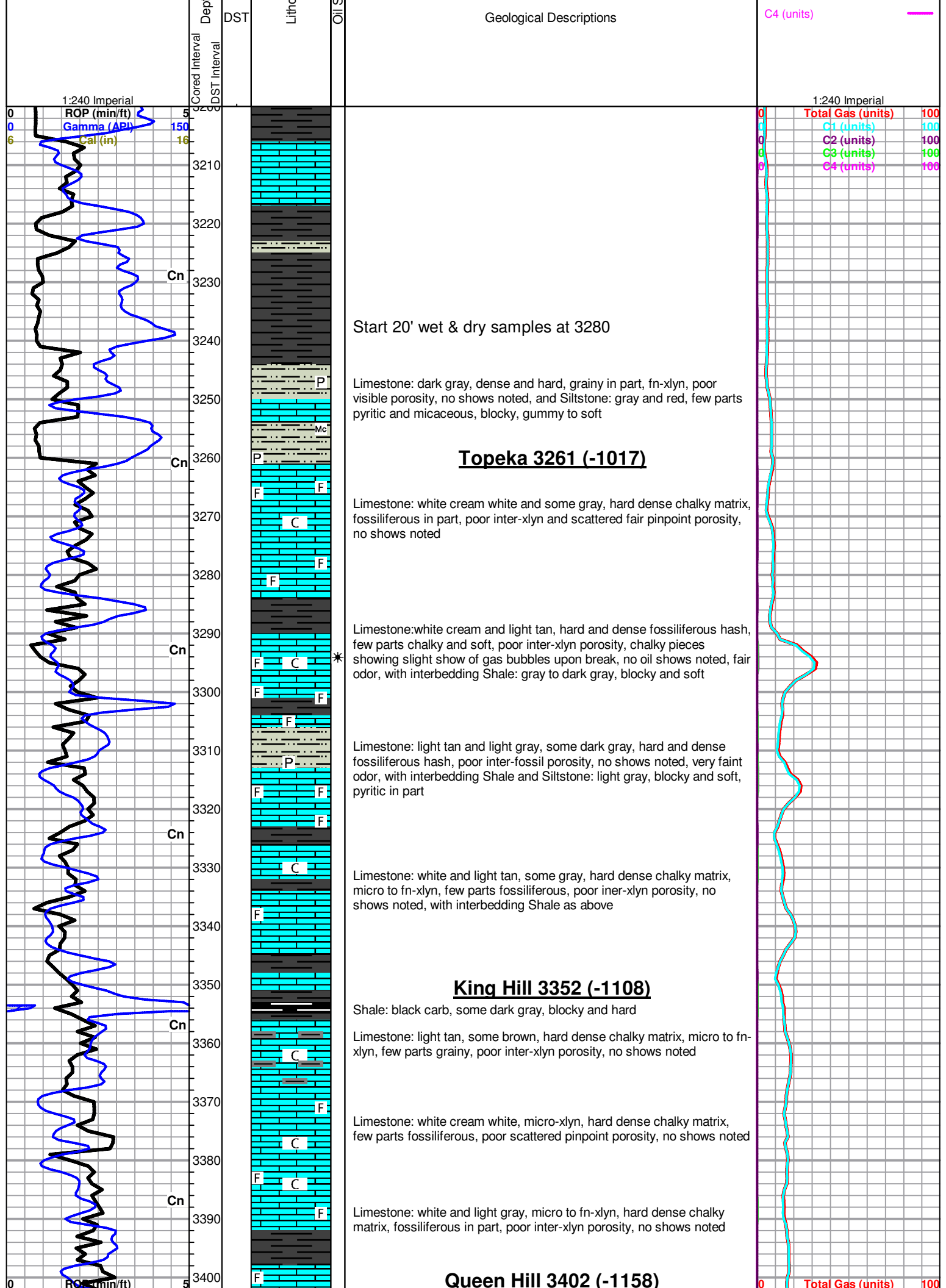
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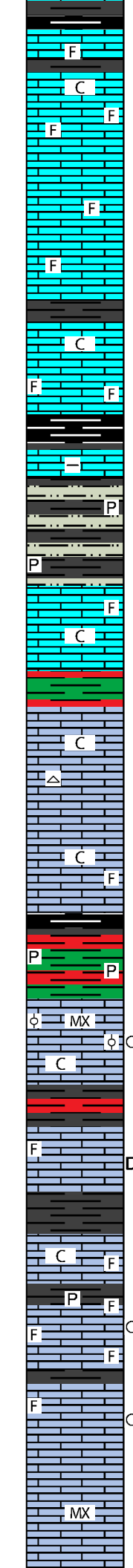
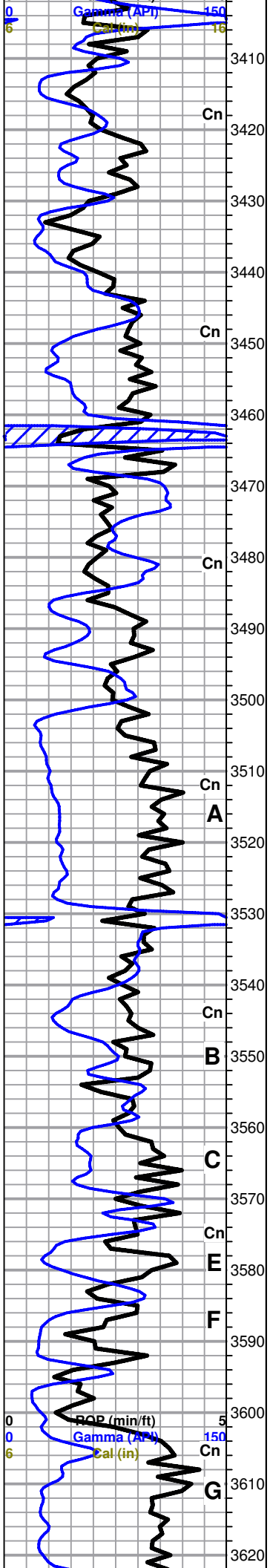
 Daily Report
 Digital Photo
 Document
 Folder
 Link
 Vertical Log File
 Horizontal Log File
 Core Log File
 Drill Cuttings Rpt

DST

 DST1
 DST2
 Core
 tail pipe

Curve Track #1										TG, C1 - C5
ROP (min/ft)										Total Gas (units) 
Gamma (API)										C1 (units) 
Cal (in)										C2 (units) 
										C3 (units) 





Shale: black carb, some light and dark gray, blocky and hard

Limestone: white and light tan, micro-xlyn, hard dense chalky matrix, some pieces fn-xlyn grainy fossiliferous hash, poor to fair inter-xlyn porosity, no shows noted

Limestone: white, light gray, and light tan, micro to fn-xlyn, hard and dense, grainy in part, fossiliferous in part, fair inter-xlyn porosity, no shows noted

Limestone: white cream and light tan, micro-xlyn, hard dense chalky matrix, micritic in part, few parts fossiliferous, poor visible porosity, no shows noted

Start 10' wet & dry samples at 3470'

Heebner 3460 (-1216)

Shale: black carb, blocky and hard, few parts fissile

Limestone: tan to light tan, micro-xlyn, hard and dense, agrillaceous in part, poor visible porosity, no shows noted, and Shale: gray to light gray, blocky, silty in part

Siltstone: red and light gray, gummy, soft, and Shale as above

Toronto 3484 (-1240)

Limestone: cream white, micro-xlyn, hard dense chalky matrix, few parts fossiliferous, poor inter-xlyn porosity, no shows noted

Lansing 3501 (-1257)

Limestone: white to cream white, micro to crypto-xlyn, hard dense chalky matrix, micritic in part, few parts cherty, poor visible porosity, no shows noted

Limestone: as above, with trace fossiliferous hash, poor inter-xlyn and inter-fossil porosity, no shows noted

Shale: red, light green, gray, and trace black carb, blocky and soft, few parts hard, pyritic in part

Limestone: cream white, some light tan, micro to fn-xlyn, hard dense and chalky, fossiliferous-oolitic in part, poor inter-fossil to oomoldic porosity, very slight show of free oil upon break and under lamp, faint light yellow fluorescence, faint odor

Shale: gray and brick red, some black carb, blocky and soft, gummy in part, few parts pyritic

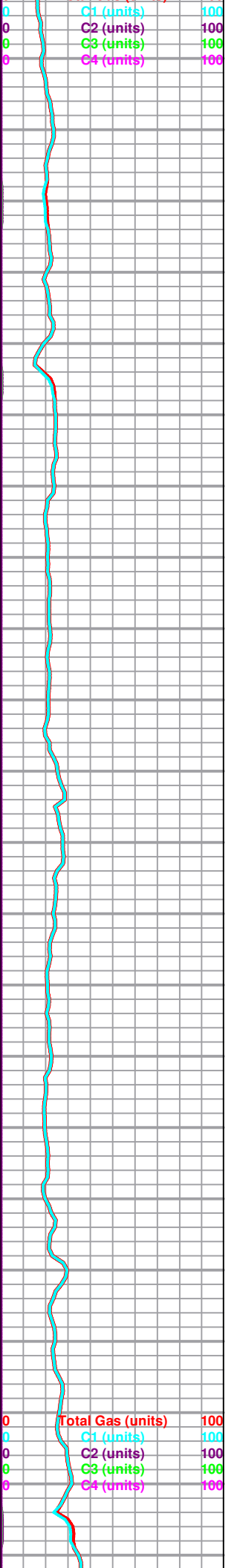
Limestone: white and light gray, fn-xlyn, hard and dense, parts fossiliferous, few parts oolitic, poor inter-xlyn and inter-fossil porosity, scattered dead oil stains, no live shows noted

Limestone: white and cream white, micro-xlyn, hard dense chalky matrix, few parts fossiliferous, poor visible porosity, no shows noted

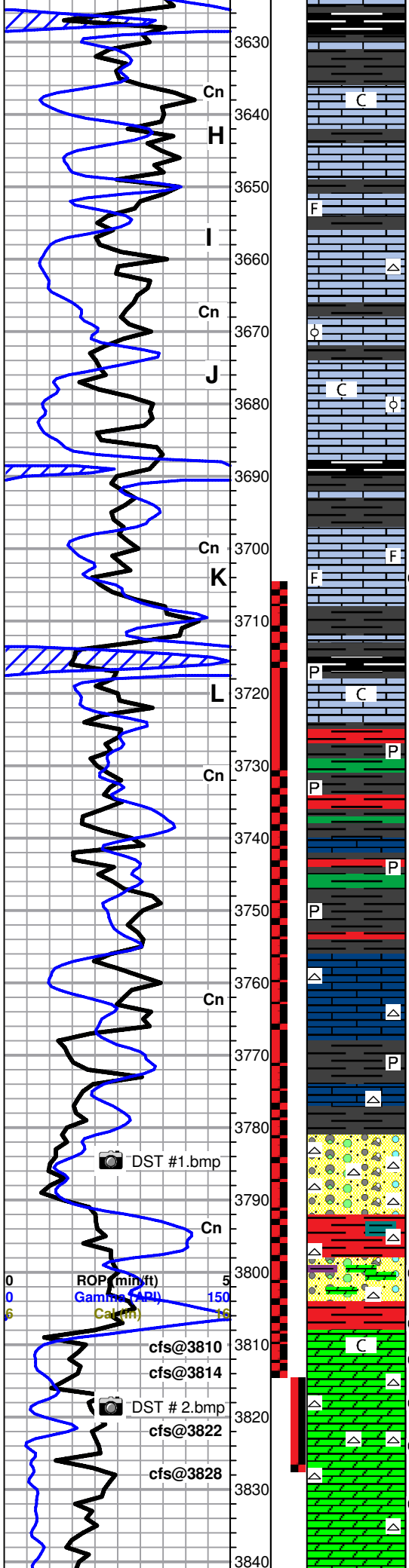
Limestone: cream white, some light tan, fn-xlyn, fossiliferous hash re-crystallized, few parts pyritic, few parts oolitic, poor inter-fossil porosity, scattered slight staining, no fluorescence, no free oil show, faint odor

Limestone: white and light tan, micro to fn-xlyn, hard and dense, fossiliferous in part, poor to fair inter-xlyn and inter-fossil porosity, scattered fair saturated stains, very slight show free oil upon break, very faint yellow fluorescence, faint odor

Limestone: white, light gray, micro to crypto-xlyn, hard and dense, micritic in part, poor visible porosity, no shows noted



Muncie Creek 3625 (-1381)



Shale: black carb, some dark gray, blocky to splintery, hard, with Limestone as above

Limestone: white and light gray, micro to fn-xlyn, hard dense chalky matrix, poor inter-xlyn porosity, no shows noted

Limestone: light tan, some white, micro-xlyn, hard and dense, fossiliferous in part, few parts cherty, poor visible porosity, no shows noted

Limestone: white and light gray, micro to fn-xlyn, hard dense chalky matrix, oolitic in part, poor visible porosity, no shows noted

Stark 3688 (-1444)

Shale: black carb, some dark gray, blocky to splintery, few parts fissile

Limestone: cream white, fn-xlyn, fossiliferous hash to chalky parts fossiliferous, fair inter-xlyn and inter-fossil porosity, slight show free oil and gas bubbles upon break and building under lamp, very faint light yellow fluorescence, fair odor

Shale: dark gray, trace black carb, blocky and hard, and Limestone: white, micro-xlyn, hard dense chalky matrix, no shows

Base Kansas City 3724 (-1480)

Shale: light gray, red, and some green, blocky, soft and gummy, pyritic in part

Shale: as above, with interbedded Limestone: light gray and gray, hard and dense, fn-xlyn, grainy in part, poor visible porosity, no shows

Marmaton 3756 (-1512)

Limestone: gray, light gray, micro to crypto-xlyn, cherty in part, poor visible porosity, no shows noted

Shale: light gray to gray, blocky and soft, gummy in part, few parts pyritic

Conglomerate: Chert: white and orange, sub-translucent to translucent, sharp and fresh, in matrix of Shale: red, some gray, gummy and soft

cfs 3810 30": Conglomerate: Shales: red gray and teal green, some purple, with Chert: white and orange, translucent, sharp and fresh, and few pieces Dolomite: white, fn-xlyn, sucrosic, fair rhombic development, slight oil show upon break, good odor

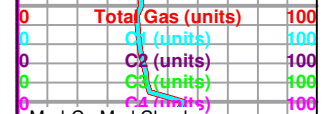
Arbuckle 3804 (-1560)

cfs 3810 45": as above, with increasing Dolomite: light tan, fn-xlyn, fair to good rhombic development, slightly chalky in part, few pieces sucrosic, scattered good rhombic porosity, very good show of free oil, even light yellow fluorescence, strong odor

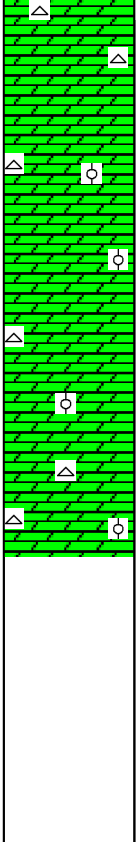
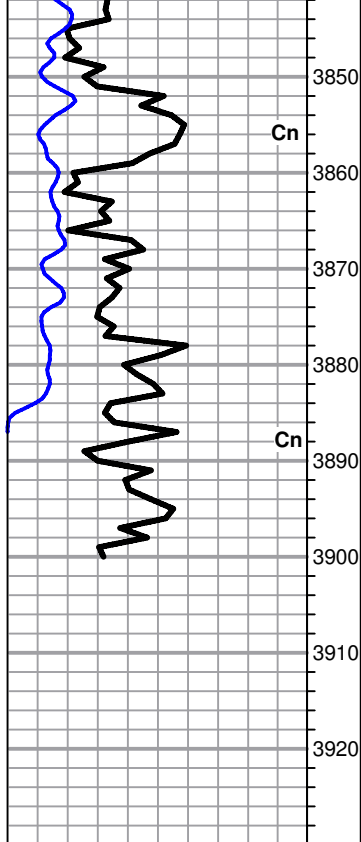
cfs 3814: Dolomite: white and light tan, micro to fn-xlyn, fair rhombic development, scattered good saturated stain, poor to fair rhombic porosity, very good show free oil, even yellow-green fluorescence, strong odor

cfs 3822: Dolomite: white to tan, micro to fn-xlyn, poor to fair rhombic development, fair saturated stains, few parts cherty, poor to fair rhombic porosity, scattered fair show of free oil bleeding from rhombic pieces, poor fluorescence, good odor

Mud-Co Mud Check @3666'
 4.20.13 0639 hrs
 Wt: 8.9 Vs: 56
 Pv: 15 Yp: 26
 pH: 11 WL: 6.8
 Cake: 1/32
 Chl: 2700 Cal: Nil
 Sol: 4.3 LCM: 2
 DMC: \$0.00
 CMC: \$6,029.90



Mud-Co Mud Check @3814'
 4.21.13 0600 hrs
 Wt: 9.0 Vs: 58
 Pv: 15 Yp: 26
 pH: 10.5 WL: 7.4
 Cake: 1/32
 Chl: 2900 Cal: Tr
 Sol: 4.9 LCM: 1
 DMC: \$0.00
 CMC: \$6,029.90



poor fluorescence, good odor

cfs 3828: Dolomite: white and tan, trace pink, micro-xlyn, poor to scattered fair rhombic development, cherty in part, poor rhombic porosity, very slight show free oil, poor fluorescence, good odor

Start 10' dry samples at 3840'

Dolomite: as above

Dolomite: white to tan, fn-xlyn, poor to fair rhombic development, few parts cherty, poor rhombic and fair vuggy porosity

Dolomite white and light tan, micro to fn-xlyn, fair rhombic development, few parts oolitic, poor to fair rhombic porosity

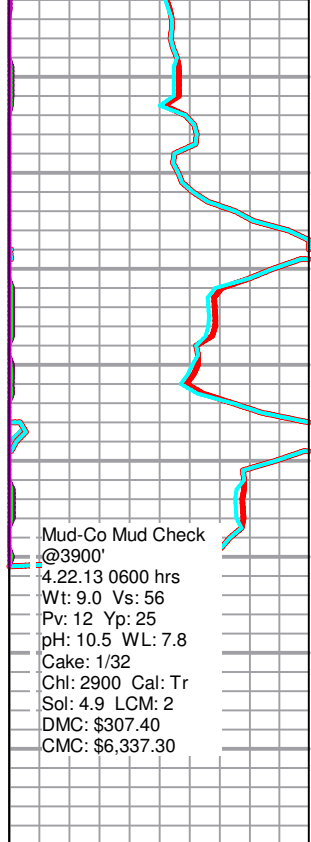
Dolomite: light tan to pink, micro-xlyn, dense and hard, poor rhombic development, few parts cherty, poor scattered rhombic porosity

Dolomite: mostly pink with some white and light tan, micro to fn-xlyn, dense and hard, scattered fair rhombic development, cherty in part, few parts oolitic, scattered fair vuggy porosity

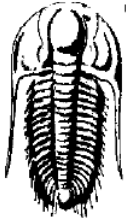
Rotary Total Depth 3900 (-1656)

Respectfully submitted,

Adam G. Nighswonger



Mud-Co Mud Check
 @3900'
 4.22.13 0600 hrs
 Wt: 9.0 Vs: 56
 Pv: 12 Yp: 25
 pH: 10.5 WL: 7.8
 Cake: 1/32
 Chl: 2900 Cal: Tr
 Sol: 4.9 LCM: 2
 DMC: \$307.40
 CMC: \$6,337.30



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Thomason Petroleum, Inc.

1-10s-21w-Graham

PO Box 875
Hays, KS. 67601

Lambert A-Desair Uni

Job Ticket: 52226

DST#: 1

ATTN: Adam Nighswonger

Test Start: 2013.04.20 @ 19:32:46

GENERAL INFORMATION:

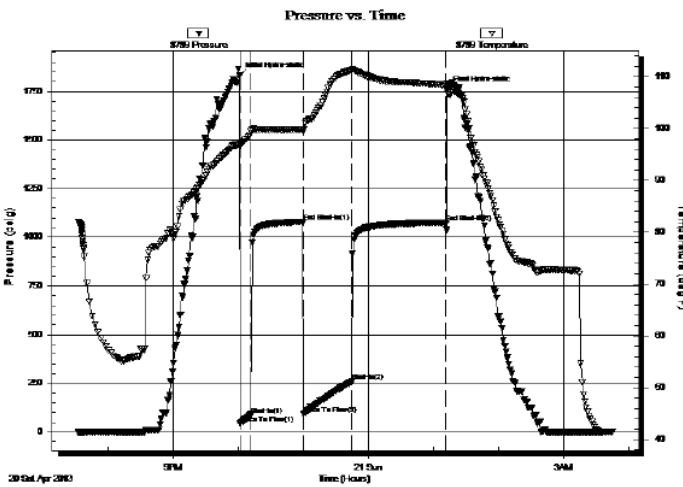
Formation: **Arbuckle**
 Deviated: No Whipstock: 0.00 ft (KB)
 Time Tool Opened: 22:02:01
 Time Test Ended: 03:44:46
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Jason McLemore
 Unit No: 54
 Interval: **3710.00 ft (KB) To 3814.00 ft (KB) (TVD)**
 Total Depth: 3814.00 ft (KB) (TVD)
 Reference Elevations: 2244.00 ft (KB)
 2236.00 ft (CF)
 Hole Diameter: 7.80 inches Hole Condition: Good
 KB to GR/CF: 8.00 ft

Serial #: 8789

Inside

Press@RunDepth: 259.25 psig @ 3808.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.04.20 End Date: 2013.04.21 Last Calib.: 2013.04.21
 Start Time: 19:32:48 End Time: 03:44:46 Time On Btm: 2013.04.20 @ 22:01:31
 Time Off Btm: 2013.04.21 @ 01:12:01

TEST COMMENT: IFP-Good Blow , BOB in 10 Min.
 ISI-Dead
 FFP-Good Blow , BOB in 12 Min.
 FSI-Dead



PRESSURE SUMMARY

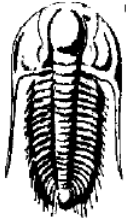
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1829.22	97.20	Initial Hydro-static
1	41.51	96.80	Open To Flow (1)
11	89.18	99.35	Shut-In(1)
59	1079.81	99.78	End Shut-In(1)
59	90.39	99.40	Open To Flow (2)
104	259.25	111.24	Shut-In(2)
190	1076.52	108.40	End Shut-In(2)
191	1756.23	108.62	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
240.00	VSOCMW-5%O-85%W-10%M	3.09
150.00	SOCMW-10%O-40%W-50%M	2.10
60.00	OCMW-20%O-75%W-5%M	0.84
60.00	VSOCM-1%O-99%M	0.84

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Thomason Petroleum, Inc.

1-10s-21w-Graham

PO Box 875
Hays, KS. 67601

Lambert A-Desair Uni

Job Ticket: 52227 **DST#: 2**

ATTN: Adam Nighswonger

Test Start: 2013.04.21 @ 10:48:30

GENERAL INFORMATION:

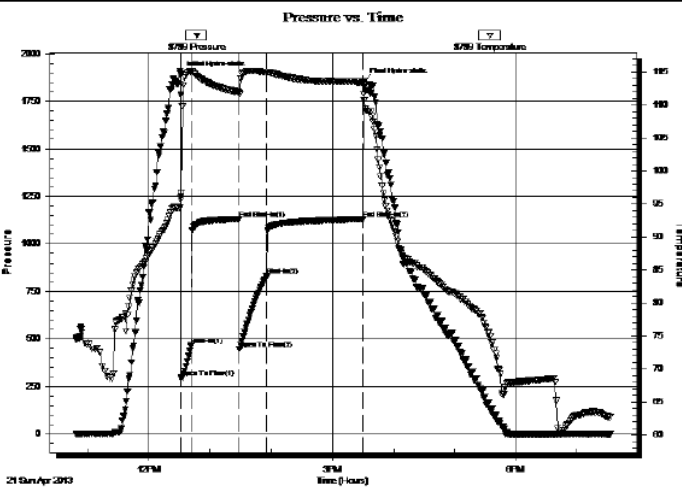
Formation: **Arbuckle**
 Deviated: No Whipstock: 0.00 ft (KB)
 Time Tool Opened: 12:31:30
 Time Test Ended: 19:33:00
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Jason McLemore
 Unit No: 54
Interval: 3814.00 ft (KB) To 3828.00 ft (KB) (TVD)
 Reference Elevations: 2244.00 ft (KB)
 Total Depth: 3828.00 ft (KB) (TVD) 2236.00 ft (CF)
 Hole Diameter: 7.80 inches Hole Condition: Good KB to GR/CF: 8.00 ft

Serial #: 8789

Inside

Press@RunDepth: 834.74 psig @ 3817.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.04.21 End Date: 2013.04.21 Last Calib.: 2013.04.21
 Start Time: 10:48:32 End Time: 19:33:00 Time On Btm: 2013.04.21 @ 12:30:45
 Time Off Btm: 2013.04.21 @ 15:31:00

TEST COMMENT: IFF-Strong, BOB in 1 Mn.
 ISI-Dead
 FFP-Strong, BOBin 1-1/2 Mn.
 FSI-Dead



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1891.55	95.78	Initial Hydro-static
1	298.45	96.66	Open To Flow (1)
11	465.35	115.15	Shut-In(1)
58	1130.82	111.91	End Shut-In(1)
58	446.37	111.64	Open To Flow (2)
85	834.74	114.96	Shut-In(2)
180	1131.57	113.49	End Shut-In(2)
181	1853.40	111.69	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
720.00	Salt Water	9.83
930.00	OCMW-15%O-80%W-5%M	13.05
120.00	Free Oil	1.68
0.00	180' Gas In Pipe	0.00

Gas Rates

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

* Recovery from multiple tests