



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
- Conv. to GSW
- Plug Back: _____ Plug Back Total Depth _____
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date Date Reached TD Completion Date or Recompletion Date

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

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total 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

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



1051738

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

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

INSTRUCTIONS: Show important tops and base 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. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

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 Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> 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
_____ Perforate _____ Protect Casing _____ Plug Back TD _____ Plug Off Zone				

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
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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> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Hess Oil Company
Well Name	Pfister 1-6
Doc ID	1051738

Tops

Name	Top	Datum
Heebner	3245	-1318
Toronto	3256	-1329
Douglas Shale	3274	-1347
Brown Lime	3349	-1422
Lansing	3357	-1430
Muncie Creek	3474	-1547
Stark Shale	3536	-1609
Base Kansas City	3579	-1652
Viola	3611	-1684
Simpson Shale	3636	-1709
Simpson Sand	3644	-1717
Arbuckle	3680	-1753
RTD	3805	-1878
LTD	3800	-1873

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/>

Thomas E. Wright, Chairman
Ward Loyd, Commissioner

Corporation Commission

Sam Brownback, Governor

March 09, 2011

Bryan Hess
Hess Oil Company
PO BOX 1009
MCPHERSON, KS 67460-1009

Re: ACO1
API 15-185-23653-00-00
Pfister 1-6
SE/4 Sec.06-21S-14W
Stafford 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,
Bryan Hess



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Hess Oil Co
P O Box 1009
McPherson Ks 67460
ATTN:

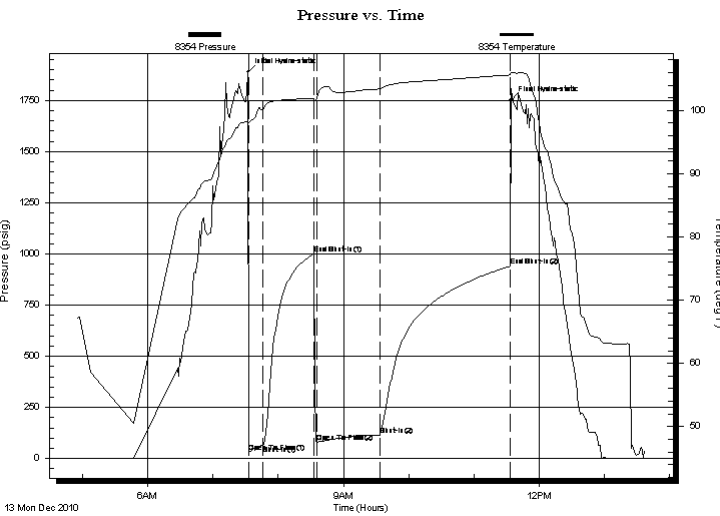
Pfister # 1-6
6-21-14-Stafford-Ks
Job Ticket: 041352 **DST#: 1**
Test Start: 2010.12.13 @ 04:55:12

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 07:33:12
Time Test Ended: 13:37:42
Interval: **3630.00 ft (KB) To 3694.00 ft (KB) (TVD)**
Total Depth: 3694.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Reference Elevations: 1927.00 ft (KB)
1922.00 ft (CF)
KB to GR/CF: 5.00 ft
Test Type: Conventional Bottom Hole
Tester: Dan Bangle
Unit No: 38

Serial #: 8354 Inside
Press @ Run Depth: 114.76 psig @ 3634.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2010.12.13 End Date: 2010.12.13 Last Calib.: 2010.12.13
Start Time: 04:55:13 End Time: 13:37:42 Time On Btm: 2010.12.13 @ 07:31:57
Time Off Btm: 2010.12.13 @ 11:33:57

TEST COMMENT: IF-Weak building to 6"
FF-Weak building to 7"



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1887.03	98.27	Initial Hydro-static
2	31.70	98.02	Open To Flow (1)
14	64.08	100.21	Shut-In(1)
61	999.99	101.93	End Shut-In(1)
64	77.00	102.06	Open To Flow (2)
122	114.76	103.38	Shut-In(2)
242	940.52	105.60	End Shut-In(2)
242	1751.39	105.90	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
152.00	OCGsyM 10%g 40%o 50%m	0.75
75.00	CGsyO 10%g 90%o	0.51
0.00	248 GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Hess Oil Co
P O Box 1009
McPherson Ks 67460
ATTN:

Pfister # 1-6
6-21-14-Stafford-Ks
Job Ticket: 041352 **DST#: 1**
Test Start: 2010.12.13 @ 04:55:12

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 36 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 46.00 sec/qt	Cushion Volume: bbl	
Water Loss: in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 4000.00 ppm		
Filter Cake: inches		

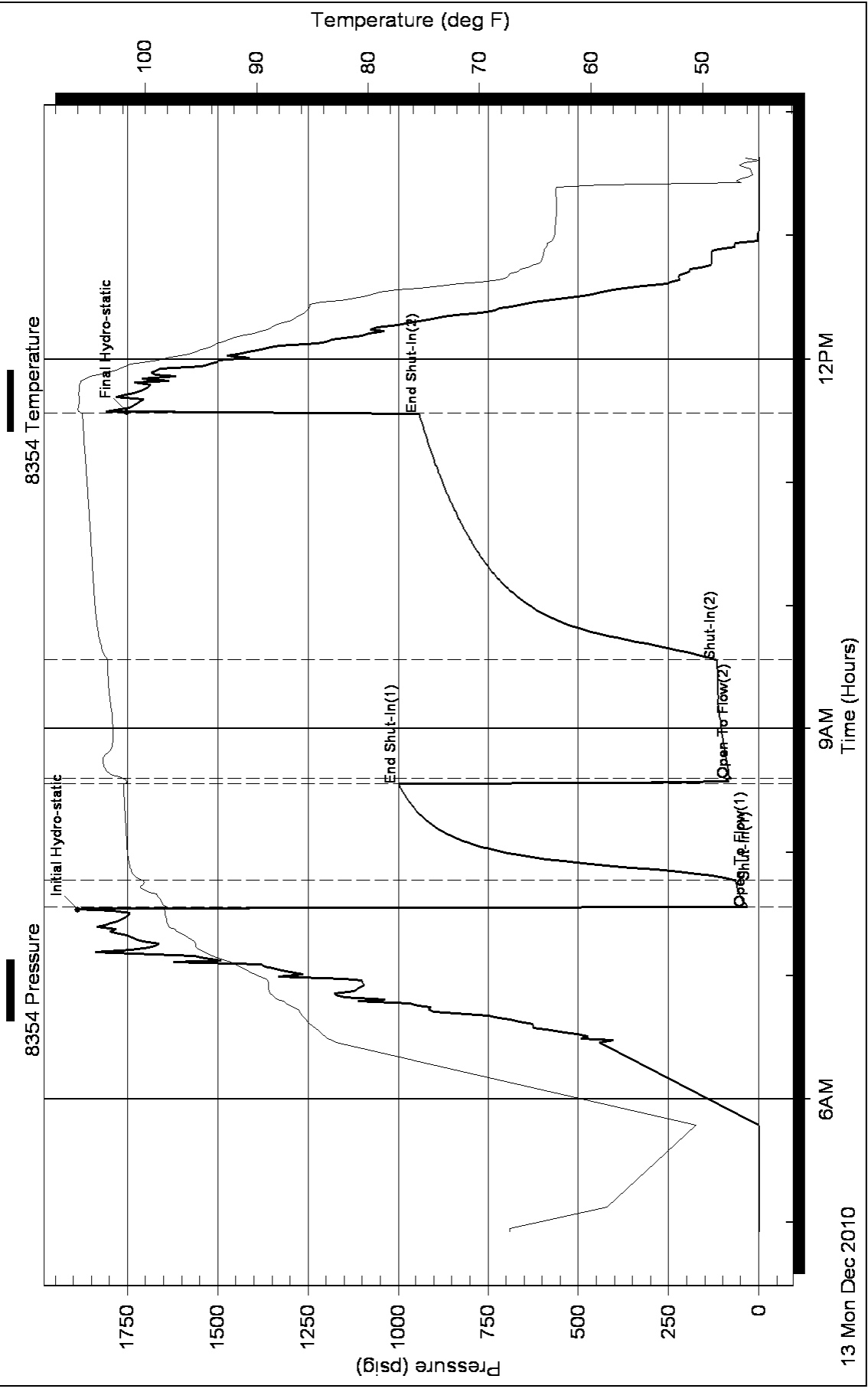
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
152.00	OCSyM 10%g 40%o 50%m	0.748
75.00	CGsyO 10%g 90%o	0.505
0.00	248 GIP	0.000

Total Length: 227.00 ft Total Volume: 1.253 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Pressure vs. Time



MAX-HENRY **OPERATING, LLC**

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

Well Name: Pfister #1-6
Location: Sec. 6 - T21S - R14W , Stafford County, KS
License Number: API No.: 15-185-23653-0000
Spud Date: December 7, 2010
Surface Coordinates: 990' FSL & 470' FEL
Region: Frey
Drilling Completed: December 13, 2010

Bottom Hole Coordinates:

Ground Elevation (ft): 1922' K.B. Elevation (ft): 1927'
Logged Interval (ft): 2200' To: 3800' Total Depth (ft): 3800' (LTD)
Formation: Arbuckle
Type of Drilling Fluid: Chemical Gel/Polymer

Printed by WellSight Log Viewer from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: Hess Oil Company
Address: 2080 E. Kansas
McPherson, KS 67460

GEOLOGIST

Name: Derek W. Patterson
Company: Max-Henry Operating, LLC
Address: 133 N. Glendale
Wichita, KS 67208

REMARKS

After review of the Open Hole Logs, DST info, structural position, and sample evaluation, it was recommended by all parties involved to run 5 1/2" production casing to further evaluate the multiple Arbuckle zones encountered while drilling the Pfister #1-6.

Please Note: the drill time, gas curves, and DST intervals have been shifted 2' shallow/higher to correspond to the electric log curves.

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

Respectfully Submitted,
Derek W. Patterson

Hess Oil Company

DAILY DRILLING REPORT

Company: Hess Oil Company
2080 E. Kansas

McPherson, KS 67460

Contact: Bryan Hess (Hess Oil Co)

Office: 620.241.4640

David Withrow (Edison Operating Co)

Cell: 316.613.1544

Geologist: Derek W. Patterson

Cell: 316.655.3550

Office: 316.558.5202

Well: Pfister #1-6

Location: 990' FSL & 470' FEL

Sec. 6 - 21S - 14W

Stafford Co., KS

Elevation: 1922' GL - 1927' KB

Field: Frey

API No.: 15-185-23653-0000

Surface Casing: 8 5/8" set @ 888' KB

Drilling Contractor: J V Mallard, Inc., Rig - 785.731.5161

Toolpusher: Levon Urban

Date	7:00 AM Depth	Previous 24 Hours of Operations
12.12.2010	3468'	Drilling and connections Topeka. Geologist Derek W. Patterson on location @ 3201', 1640 hrs 12.11.10. Rezero Tooke Daq and reset hole depth to match geolograph. Drilling and connections Topeka, Heebner, Toronto, Douglas, Brown Lime, and into Lansing. CFS @ 3445' (LKC 'F'), resume drilling Lansing. Deviation Survey @ 888': 3/4°
12.13.2010	3694'	CFS @ 3475' (LKC 'G'), CFS @ 3495'(LKC 'H), CFS @ 3526' (LKC 'J'). Drilling and connections Lansing. Spike mud system for gas detector test, rezero Tooke Daq. Rig down for mud pump repairs, 1445 hrs 12.12.10. Resume drilling 1615 hrs 12.12.10. Drilling and connections lower Lansing, BKC, and into Viola. CFS @ 3634' (Viola). Resume drilling Viola, Simpson, and into Arbuckle. CFS @ 3694' (Arb), shows and gas kick warrant DST. CTCH, short trip, CTCH, drop survey and strap out for DST #1, testing Arbuckle. TIH with Tool. Pipe Strap: 1.64' Short to Board Deviation Survey @ 3694': Misrun
12.14.2010	RTD - 3800' LTD - 3800'	TIH with Tool, conducting DST #1, test successful. TIH with Bit, CTCH, resume drilling 1630 hrs 12.13.10. Drilling and connections Arbuckle. CFS @ 3760' (Arb). Resume drilling Arbuckle ahead to RTD of 3800', RTD reached 2050 hrs 12.13.10. CTCH, drop survey, TOH for logging. Open hole logging operations commenced 0045 hrs 12.14.10, logging complete 0515 hrs 12.14.10. Orders received to run 5 1/2" production casing to further evaluate Arbuckle zones encountered while drilling the Pfister #1-6. Deviation Survey @ 3800': 4 3/4° Geologist Derek W. Patterson off location 0630 hrs 12.14.10.

Hess Oil Company

WELL COMPARISON SHEET

DRILLING WELL					COMPARISON WELL				COMPARISON WELL				COMPARISON WELL			
Hess Oil Company - Pfister #1-6 Sec. 6 - 21S - 14W 990' FSL & 470' FEL 1927 KB					Vickers - Frey 'B' #1 Sec. 6 - 21S - 14W SW SE SE				Vickers - Frey #4 Sec. 7 - 21S - 14W NE NW NE				Vickers - Frey 'B' #2 Sec. 6 - 21S - 14W SW NE SE			
					Oil - Arb		Structural		Oil - Arb		Structural		Oil - Arb		Structural	
					1928 KB		Relationship		1929 KB		Relationship		1926 KB		Relationship	
Formation	Sample	Sub-Sea	Log	Sub-Sea	Sample	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log	Sample	Sub-Sea	Sample	Log
Heebner	3248	-1321	3245	-1318	3252	-1324	3	6	3256	-1327	6	9	3245	-1319	-2	1
Toronto	3257	-1330	3256	-1329					3270	-1341	11	12				
Douglas Shale	3276	-1349	3274	-1347					3287	-1358	9	11				
Brown Lime	3350	-1423	3349	-1422	3355	-1427	4	5	3358	-1429	6	7	3345	-1419	-4	-3
Lansing	3359	-1432	3357	-1430	3366	-1438	6	8	3368	-1439	7	9	3356	-1430	-2	0
Muncie Creek	3479	-1552	3474	-1547					3486	-1557	5	10				
Stark Shale	3541	-1614	3536	-1609					3545	-1616	2	7				
Base Kansas City	3581	-1654	3579	-1652					3589	-1660	6	8				
Viola	3613	-1686	3611	-1684	3621	-1693	7	9	3620	-1691	5	7	3604	-1678	-8	-6
Simpson Shale	3637	-1710	3636	-1709	3648	-1720	10	11	3647	-1718	8	9	3640	-1714	4	5
Simpson Sand	3653	-1726	3644	-1717	Not Called In Field				3668	-1739	13	22	Not Called In Field			
Arbuckle	3684	-1757	3680	-1753	3690	-1762	5	9	3696	-1767	10	14	3683	-1757	0	4
Total Depth	3800	-1873	3800	-1873	3704	-1776	-97	-97	3710	-1781	-92	-92	3702	-1776	-97	-97

PLEASE NOTE: DST INTERVALS NEED TO BE SHIFTED 2' SHALLOW/HIGHER TO MATCH ELECTIC LOG CURVES



Weatherford[®] Completion Systems

DRILL STEM TEST REPORT

Hess Oil Co
P O Box 1009
McPherson Ks 67460
ATTN:

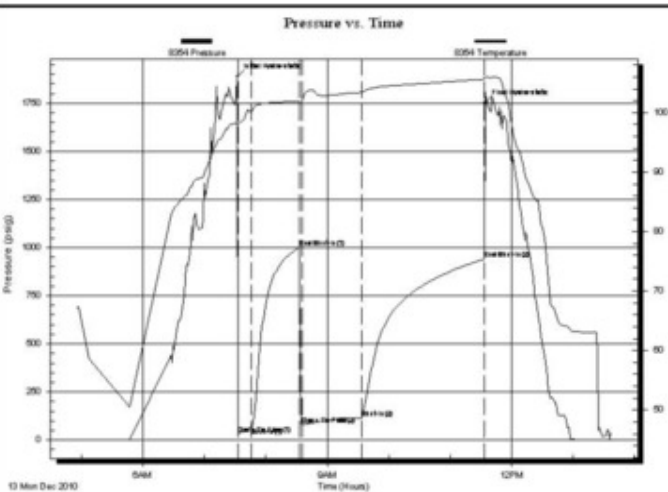
Pfister # 1-6
6-21-14-Stafford-Ks
Job Ticket: 041352 **DST#: 1**
Test Start: 2010.12.13 @ 04:55:12

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 07:33:12
Time Test Ended: 13:37:42
Test Type: Conventional Bottom Hole
Tester: Dan Bangle
Unit No: 38
Interval: **3630.00 ft (KB) To 3694.00 ft (KB) (TVD)**
Reference Elevations: 1927.00 ft (KB)
Total Depth: 3694.00 ft (KB) (TVD) 1922.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 5.00 ft

Serial #: 8354 **Inside**
Press@RunDepth: 114.76 psig @ 3634.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2010.12.13 End Date: 2010.12.13 Last Calib.: 2010.12.13
Start Time: 04:55:13 End Time: 13:37:42 Time On Btm: 2010.12.13 @ 07:31:57
Time Off Btm: 2010.12.13 @ 11:33:57

TEST COMMENT: IF-Weak building to 6"
FF-Weak building to 7"



PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	1887.03	98.27	Initial Hydro-static
2	31.70	98.02	Open To Flow (1)
14	64.08	100.21	Shut-in(1)
61	999.99	101.93	End Shut-in(1)
64	77.00	102.06	Open To Flow (2)
122	114.76	103.38	Shut-in(2)
242	940.52	105.60	End Shut-in(2)
242	1751.39	105.90	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
152.00	OCGsyM 10%g 40%o 50%m	0.75
75.00	CGsyO 10%g 90%o	0.51
0.00	248 GIP	0.00

Gas Rates

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

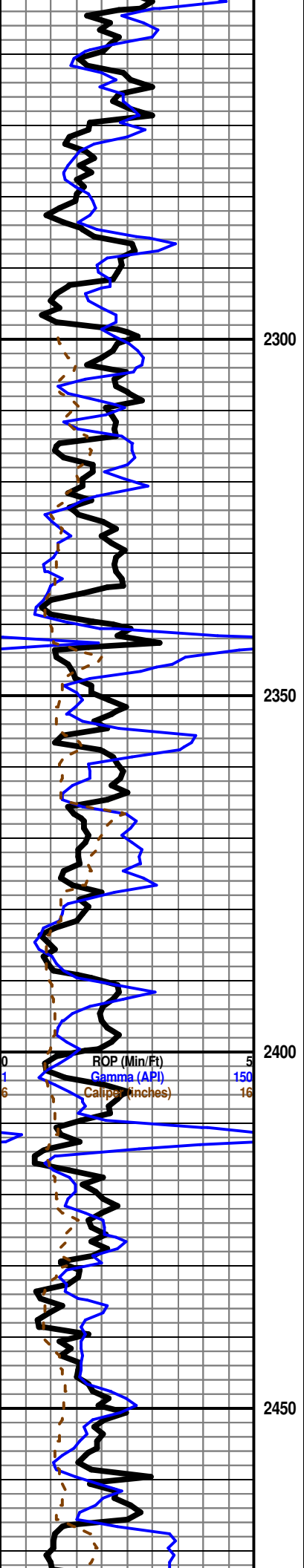
Evening: Lyle Juergensen
Morning: Frank Symank
Relief: Kent Urban

Testing Company: Trilobite Testing
Tester: Dan Bangle

Logging Company: Superior Well Services
Logging Engineer: Mitch Rupp

Geologist: Derek W. Patterson

Bluestem Gas Detector Trailer on location and operation @ 888ft.
The ROP, TG, C1 (Methane), C2 (Ethane), C3 (Propane) & C4 (N-Butane = C4 Butane + C5 Iso Butane) DATA was downloaded from the Tooke Daq System.
Said DATA was imported and displayed on this Geo Log.



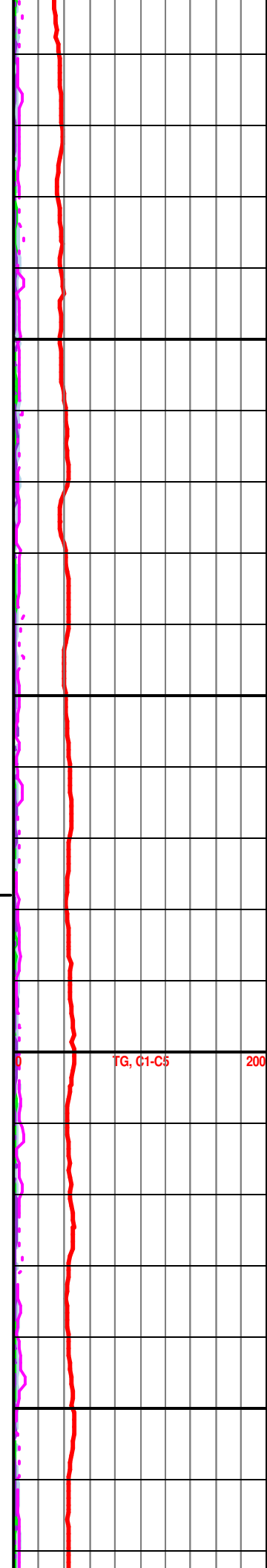
2300

2350

2400

2450

Red Eagle 2378 (-451)



TG, C1-C5

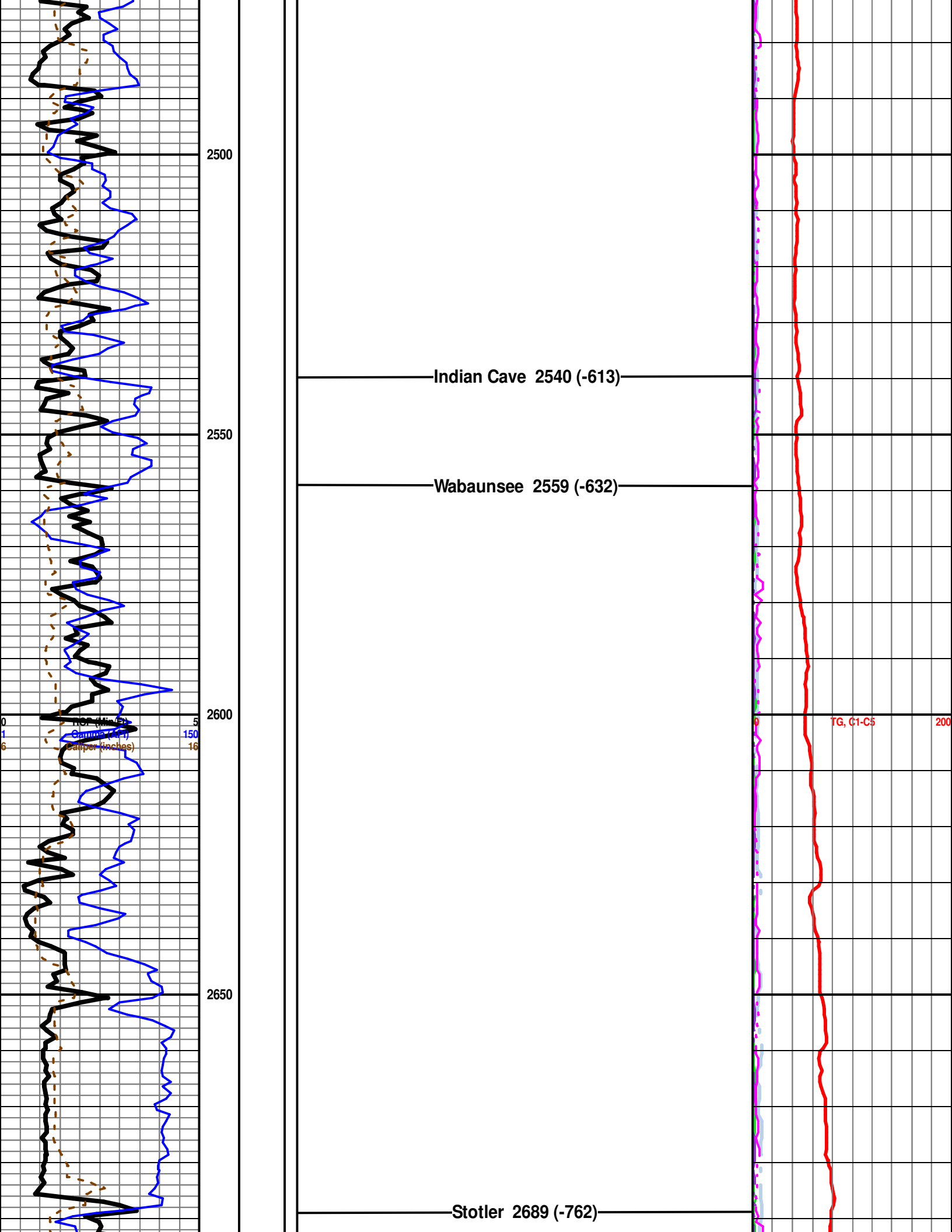
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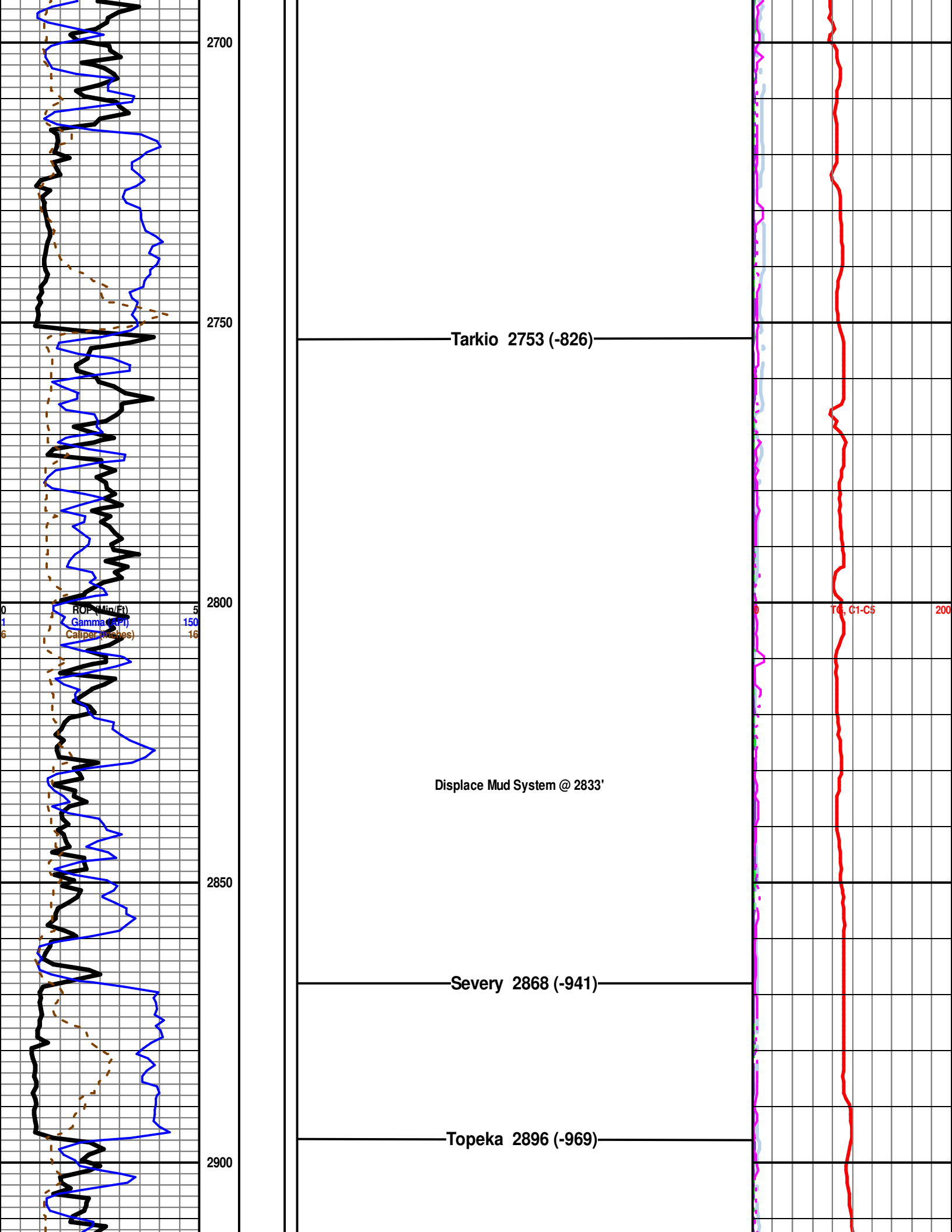
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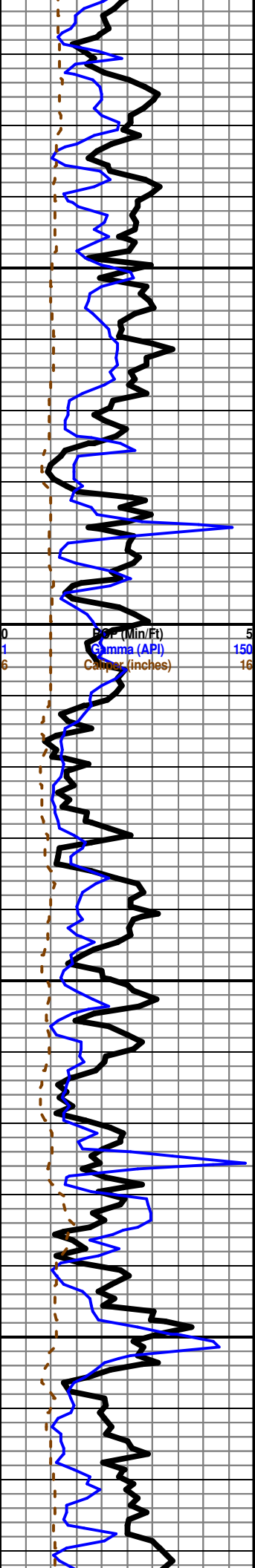
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6

ROP (Min/Ft) 5
Gamma (API) 150
Caliper (Inches) 16





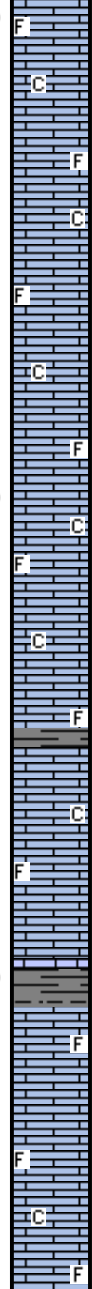


2950

3000

3050

3100



Start 20' Wet & Dry Samples @ 3000'

Limestone: It gray cream gray, dense, vfxln, slightly fossiliferous to fossiliferous, some scattered pinpoint porosity with most having poor visible porosity, no shows noted, no fluorescence.

Limestone: gray lt gray, dense to slightly chalky matrix, vfxln-microxln, sub-fossiliferous, poor visible porosity, no shows noted, no fluorescence, with Shale: gray dk gray, round to blocky, mostly soft.

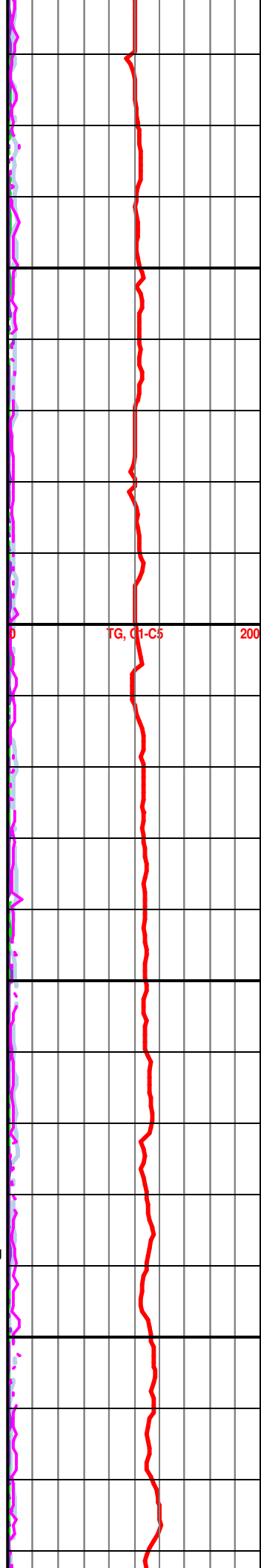
Limestone: It gray cream, dense to slightly chalky matrix, vfxln-microxln, fossiliferous in part, some scattered large imbedded calcite crystals, poor visible porosity in most pieces with a few having poor pinpoint porosity, no shows noted, no fluorescence.

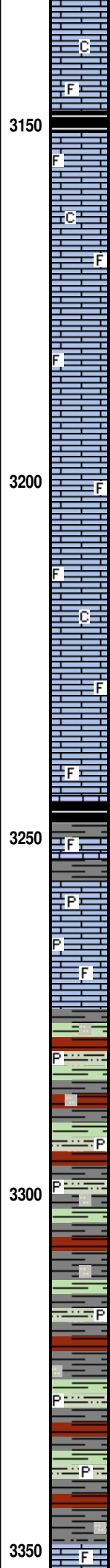
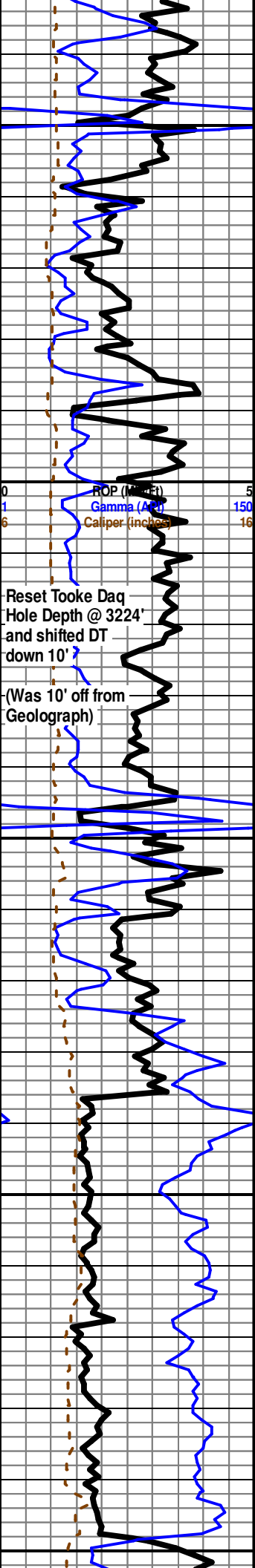
Limestone: gray lt gray lt cream, slightly chalky matrix, vfxln-microxln, some grainy, fossiliferous in part, some interxln porosity with overall poor visible porosity, no shows noted, no fluorescence.

Limestone: It cream cream lt gray, chalky matrix in most pieces, vfxln, some slightly grainy, sub-fossiliferous to fossiliferous with trace sub-oolitic, overall poor visible porosity with few pieces having fair-poor interxln porosity, no shows noted, no fluorescence.

Limestone: cream lt cream, mostly dense matrix, vfxln-microxln, heavily fossiliferous, scattered medium imbedded calcite crystals, very xln with some 2ndary xln along edges, overall poor visible porosity, no shows noted, no fluorescence.

Limestone: cream tan gray, mostly dense, microxln, heavily fossiliferous in part, scattered 2ndary xln along edges in most pieces, poor visible porosity, no shows noted, no fluorescence, with scattered Chalk in





sample.

3150 Shale: black, carbonaceous, mostly round and soft, waxy.

Limestone: cream tan, dense, microxn-vfxln, some cryptoxn, heavily fossiliferous, very xln, poor visible porosity, no shows noted, no fluorescence.

POOR SAMPLE QUALITY - Limestone: cream tan gray, cryptoxn-microxn, fossiliferous in part, poor visible porosity, no shows noted, no fluorescence.

3200 Geologist, Derek W. Patterson, on location 1640 hrs 12.11.10

Limestone: It cream tan, dense to chalky matrix, microxn-cryptoxn, fossiliferous in part, poor visible porosity, few pieces with very poor dead black tarry staining along edges, no other shows noted, very poor-no fluorescence, with moderate Chalk in sample.

Limestone: cream tan lt brown, dense, microxn, very xln, fossiliferous in part, overall poor visible porosity with few pieces having fair interxn porosity, 1 piece with very slight poor show golden brown oil upon break, no other shows noted, no fluorescence, with Shale: gray dk gray, mostly blocky, soft to hard, some fissile.

Heebner 3245 (-1318)
Shale: black, carbonaceous, some fissile, with Shale: gray dk gray, mostly blocky, soft to hard, some fissile.

Toronto 3256 (-1329)
Limestone: cream tan, dense, microxn-cryptoxn, slightly fossiliferous, poor visible porosity, no shows noted, with Shale: gray dk gray, blocky, soft to hard, some slightly pyritic.
Limestone: It cream off white, microxn-cryptoxn, slightly dolomitic in part, pyritic in part, fossiliferous, overall poor visible porosity with few pieces having trace pinpoint porosity, no shows noted, little-no fluorescence.

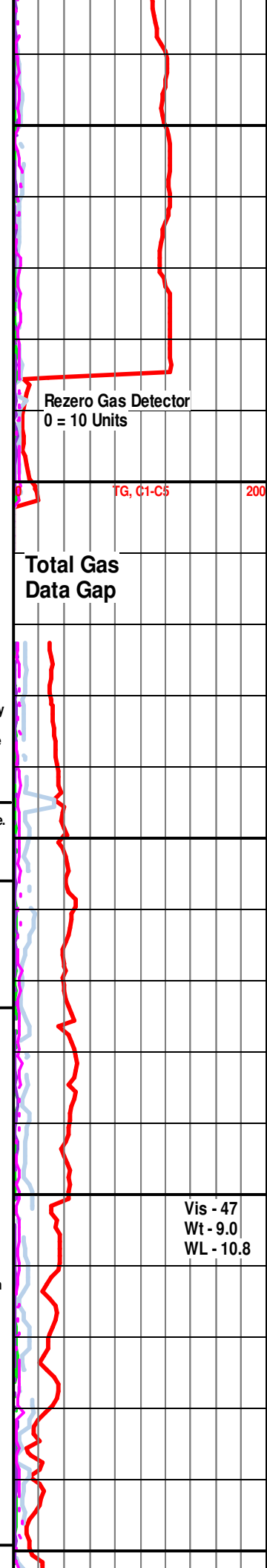
Douglas Shale 3274 (-1347)
Shale: gray dk gray dk green brick red, mostly blocky, soft to hard, some slightly silty, with trace of interbedded Siltstone: gray lt gray, vf grained, poor visible porosity, pyritic in part, no shows noted, sample washes dk gray.

3300 Start 10' Wet & Dry Samples @ 3300'

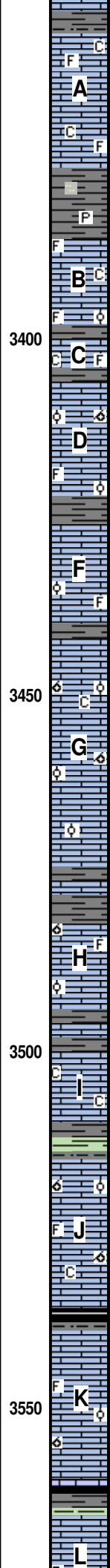
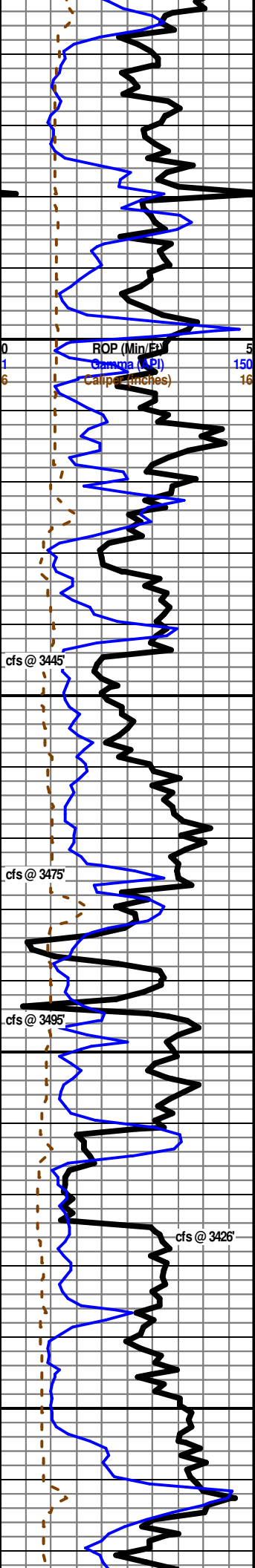
POOR SAMPLE QUALITY - Shale: gray dk dk green gray brick red, blocky to rounded, soft to hard, silty in part, with interbedded Siltstone: gray lt gray, vf grained, poor visible porosity, pyritic in part, no shows noted, sample washes dk gray.

CONTINUED POOR SAMPLE QUALITY - appears to be Shale and Siltstone as above, no shows noted, sample washes dk gray.

Brown Lime 3349 (-1422)
Limestone: tan brown lt brown, dense, microxn-cryptoxn, fossiliferous, no shows noted, no



Vis - 47
Wt - 9.0
WL - 10.8



Lansing 3357 (-1430)

Limestone: It cream off white, dense chalky matrix, vfxn-microxn, some lithographic non-descript, fossiliferous, 2ndary xln along edges in most pieces, poor-no visible porosity, few scattered gas bubbles throughout sample, no other shows noted, even dull pale yellow fluorescence.

Shale: gray dk gray dk green, mostly blocky with some rounded, mostly soft, some slightly silty and pyritic.

LKC 'B' - Limestone: It cream off white It gray, dense chalky matrix, vfxn-microxn, some lithographic non-descript, fossiliferous with some bioclastic, 2ndary xln along edges in most pieces, poor-no visible porosity, scattered gas bubbles in sample with few from porosity, 1 piece with dk black gilsonite staining along edges, few pieces with slight golden brown staining along edges, very slight oily sheen across sample, no other shows noted, even to spotty dull pale yellow fluorescence.

LKC 'C'/D' - Limestone: It cream off white, dense slightly chalky matrix, vfxn-microxn, very xln, fossiliferous with trace oolitic, scattered medium-large solution vugs in few pieces, fair-good vuggy porosity in those with vugs present all others poor visible porosity, 2 pieces slightly bleeding golden brown oil from porosity with fair increase when broken, fair-good golden brown staining along edges and in porosity in those with shows, moderate odor in cup, even bright yellow fluorescence.

Limestone: It cream cream, dense, microxn, fossiliferous with scattered oolitic, trace small oomoldic, overall poor visible porosity, no shows noted, spotty bright yellow fluorescence to no fluorescence in sample.

Limestone: dk brown dk gray, dense, microxn, heavily fossiliferous to bioclastic with oolitic, some interclast porosity in few pieces, 2 pieces with slight show dk brown oil from porosity, very little increase upon break, no other shows noted, spotty bright yellow to no fluorescence in sample.

Limestone: cream tan off white, slightly chalky matrix, microxn-vfxn some lithographic, fossiliferous with some oolitic, poor visible porosity in most pieces with a few having fair pinpoint porosity, few pieces with very slight golden brown staining, no other shows noted, little to no fluorescence in sample.

3445' cfs 40" - Limestone: cream It tan, mostly dense, microxn-vfxn, fossiliferous, some scattered pinpoint porosity in few pieces, few pieces slightly bleeding very lt golden brown oil from porosity with fair increase upon break, no odor, even to spotty dull pale yellow fluorescence.

Limestone: cream tan It gray, slightly chalky matrix, microxn-vfxn, fossiliferous with oolitic, heavily oomoldic with varying small-large molds, fair-good oomoldic porosity, fair 2ndary xln in porosity, only show noted was 1 piece with dk black gilsonite staining along edge and in porosity, no other shows noted, no cut fluorescence, spotty bright yellow fluorescence.

Limestone: It gray tan cream, dense, microxn, very xln, slightly fossiliferous with scattered oolitic, some poor oomoldic development, overall poor interxn porosity, no shows noted, little-no fluorescence.

Muncie Creek 3474 (-1547)

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

3495' cfs 20"/40" - Limestone: It cream off white It gray, microxn, fossiliferous in part with oolitic, fair-good oomoldic development ranging from med-large molds, scattered solution vugs, good oomoldic/vuggy porosity, 5% with dk black-brown tarry oil in porosity and along edges, slight increase and oily sheen upon break/left under lamp, overall poor show bleeding oil, spotty bright yellow fluorescence, streaming milky-white cut fluorescence, no odor in sample.

Limestone: cream It cream tan, microxn-vfxn, slightly chalky, mostly barren, small scattered solution vugs in few pieces, overall poor interxn porosity with few pieces having fair vuggy porosity, 2% with dk black-brown tarry oil along edges and in porosity, slight increase and oily sheen upon break/left under lamp, poor show bleeding oil, spotty bright yellow fluorescence, streaming milky-white cut fluorescence, very faint-no odor in sample.

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

3526' cfs 20"/40" - Limestone: cream tan, microxn-vfxn, fossiliferous with oolitic, very good oomoldic development, fair-good oomoldic porosity, 2ndary xln in porosity in most pieces, no shows noted, no odor, no cut fluorescence, spotty bright yellow fluorescence.

3526' cfs 60" - Limestone: It cream off white, dense, microxn-vfxn, fossiliferous with oolitic, scattered sub-oomoldic, overall poor interxn/visible porosity, no shows noted, little-no fluorescence, with scattered Chalk in sample.

Stark Shale 3536 (-1609)

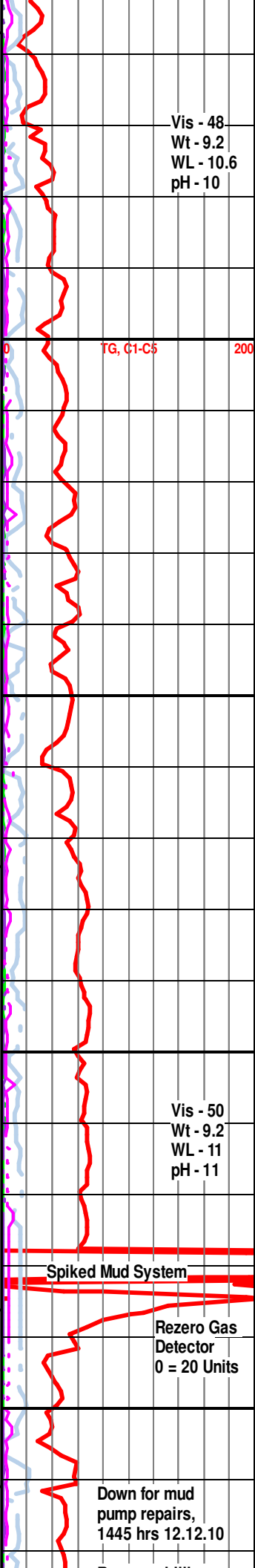
Shale: black, carbonaceous, mostly soft, with Shale: gray dk gray, mostly blocky, soft to hard, some fissile, slightly silty in part.

Limestone: cream tan It cream, dense, microxn-vfxn, fossiliferous with oolitic, scattered sub-oomoldic, overall poor interxn/oomoldic porosity, 2ndary xln along edges in few pieces, no shows noted, little-no fluorescence.

Hushpuckney 3561 (-1634)

Shale: gray dk gray dk green, blocky and hard, trace black carbonaceous.

Limestone: cream tan, dense, microxn, very xln w/ 2ndary xln along edges, sub-fossiliferous, scattered small solution vugs, overall poor interxn porosity, few pieces with dk black-brown tarry oil in vugs, no



Vis - 48
Wt - 9.2
WL - 10.6
pH - 10

Vis - 50
Wt - 9.2
WL - 11
pH - 11

Rezero Gas
Detector
0 = 20 Units

Down for mud
pump repairs,
1445 hrs 12.12.10

TG, C1-C5 200

Spiked Mud System

Resume drilling,
1615 hrs 12.12.10

Base Kansas City 3579 (-1652)

Shale: gray dk gray dk green brick red, mostly blocky and hard, some fissile, scattered silty and pyritic.

Limestone: brown dk brown tan, dense, microxln, fossiliferous in part, poor interxln porosity, no shows noted, no fluorescence.

Shale: dk gray gray dk green brick red, mostly blocky and fissile, soft to hard, trace silty and pyritic.

Limestone: off white lt cream lt gray, dense, microxln-vfxln with some cryptoxln, slightly fossiliferous, scattered 2ndary xln along edges, overall poor interxln/visible porosity, no shows noted, little-no fluorescence.

Viola 3611 (-1684)

3634' cfs 20" - Chert: off white bone white cream tan, fresh and sharp to slightly weathered, mostly barren, poor visible porosity in most pieces, majority having dk black staining along edges, 10% slightly bleeding dk brown free oil with fair increase upon break, visible dead tarry oil upon break in most show rocks, no odor in sample/cup, spotty bright yellow fluorescence, with interbedded Limestone: lt cream off white, chalky matrix, microxln, poor porosity, few pieces dead staining on edges.

3634' cfs 40" - Chert: as above with increase in show rocks to approximately 10% of Chert in sample, no new shows noted, with overall decrease in Limestone from above.

Simpson Shale 3636 (-1709)

Shale: gray dk gray dk green teal green brick red brown purple, round to blocky, soft to hard, some fissile, sample washes brown-red.

Simpson Sand 3644 (-1717)

Sandstone: lt gray off white lt tan matrix, vf grained, clear silica grains, well sorted and well rounded, very friable, small clean clusters, poor visible porosity, no shows noted, no fluorescence, with abundant Shale: gray dk gray brick red, round to blocky.

Shale: gray dk gray dk green brick red teal purple, mostly blocky, soft to hard, some fissile, sample washes dk red-brown.

Shale: gray dk gray green dk green teal maroon purple brick red yellow, mostly blocky and hard, abundant fissile material, sample washes dk red-brown.

Arbuckle 3680 (-1753)

3694' cfs 15" - Dolomite: cream lt tan, fxdn-coarsexln, good rhombic development, fair-good interxln/rhombic porosity, appears to be slightly tight, moderate free oil in tray, fair show golden brown free oil and gas bubbles from porosity with good increase when broken/left under lamp, streaming golden gassy/oily sheen across sample, golden brown sat stain, even bright lt yellow fluorescence, strong oil odor.

3694' cfs 30"/45" - Dolomite: as above grading to Dolomite: cream tan, fxdn-vfxln, good sucrosic development with scattered rhombic development, fair-good interxln/sucrosic porosity, mostly friable to slightly tight, abundant free oil in tray, fair-good show golden brown-free oil and gas bubbles from porosity with good increase when broken/left under lamp, streaming golden gassy/oily sheen across sample, golden brown sat stain, even bright lt yellow fluorescence, strong oil odor.

Resume Drilling Following DST #1, 1630 hrs 12.13.10

3695' - 3708' - Dolomite: lt cream lt pink tan, dense-tight matrix, microxln-vfxln, poor rhombic development, scattered small vugs, overall poor interxln/vuggy porosity, few pieces slightly bleeding golden brown free oil, fair-good increase upon break, faint golden brown sat stain, even bright lt yellow fluorescence, moderate odor in sample.

3709' - 3728' - Dolomite: lt cream lt gray, chalky in part, fxdn-coarsexln, good rhombic development in most, fair-good rhombic porosity, few pieces with fair show lt brown free oil upon break and in porosity, spotty golden brown sat stain, even bright lt yellow fluorescence, faint-moderate odor in sample.

3729' - 3742' - Dolomite: lt cream cream, vfxln-fxdn, fair-good rhombic development, fair rhombic porosity, scattered pieces with fair show lt brown free oil in porosity with slight increase upon break, spotty golden brown sat stain, even bright lt pale yellow-green fluorescence, moderate odor in sample, with scattered Chert: bone white lt yellow, fresh and sharp, oolitic in part.

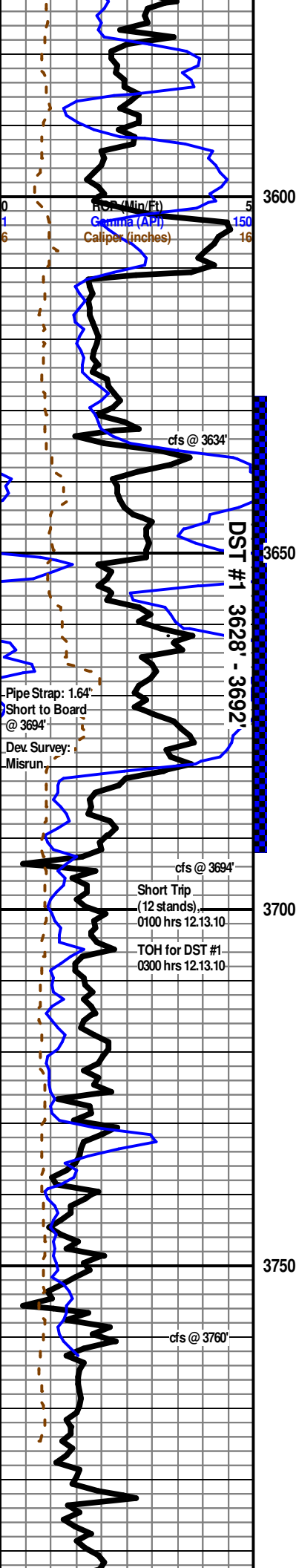
3742' - 3750' - Dolomite: lt cream lt gray, vfxln-microxln with trace fxdn, fair-good rhombic development in most with scattered friable sucrosic, fair rhombic porosity to poor interxln porosity, few pieces with slight show lt brown oil in porosity with slight increase upon break, even bright lt pale yellow-green-white fluorescence, fair odor in sample, with continued Chert as above.

3760' cfs 40" - Dolomite: off white lt cream, vfxln-microxln, oomoldic, fair-good oomoldic porosity, most having fair show dk brown free oil in porosity with good increase upon break, even oily sheen across most pieces, even bright lt pale yellow-white fluorescence, moderate odor in sample, with scattered Chert as above, some slightly weathered.

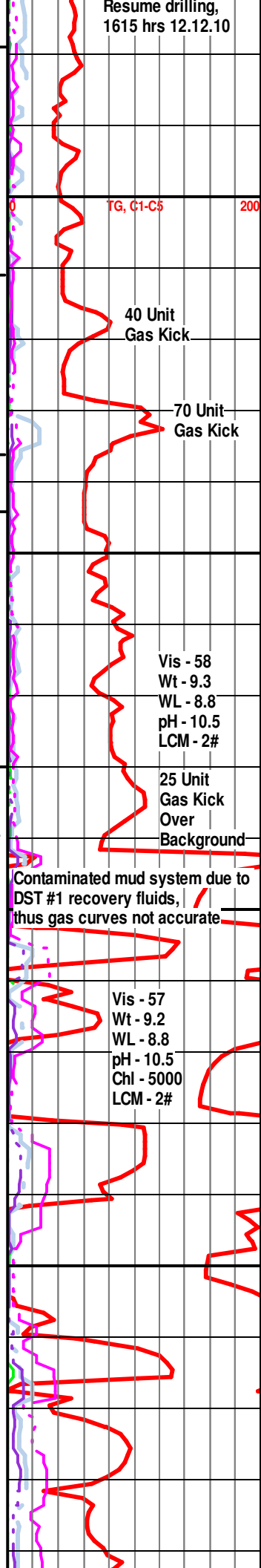
Dolomite: cream lt tan, fxdn-vfxln with some scattered coarsexln, fair-good rhombic development, fair rhombic porosity, poor show dk brown free oil in porosity of few pieces with slight increase upon break, slight oily sheen across majority of pieces, even bright lt pale yellow-white fluorescence, faint-poor odor in sample, with scattered Chert as above, and scattered Chalk.

Dolomite: cream tan lt tan, fxdn-microxln, fair-poor xln development with some sub-rhombic, overall poor interxln porosity, most porosity filled by Chalk or 2ndary xln, few pieces with slight show brown free oil with little increase upon break, even bright lt pale yellow-white fluorescence, poor-no odor in sample, with continued Chert: white bone white, sharp and fresh to slightly weathered, sub-oolitic, and Chalk.

3800' cfs 20" - Dolomite: off white lt tan lt brown, vfxln-microxln, fair sucrosic and scattered sub-rhombic development, overall poor interxln porosity, very poor show brown free oil in few pieces, no other shows noted, even bright lt pale yellow fluorescence, poor-no odor in sample, with Chert: bone white, fairly weathered, oolitic in part, no shows, and scattered Chalk.



Base Kansas City 3579 (-1652)
Shale: gray dk gray dk green brick red, mostly blocky and hard, some fissile, scattered silty and pyritic.
Limestone: brown dk brown tan, dense, microxln, fossiliferous in part, poor interxln porosity, no shows noted, no fluorescence.
Shale: dk gray gray dk green brick red, mostly blocky and fissile, soft to hard, trace silty and pyritic.
Limestone: off white lt cream lt gray, dense, microxln-vfxln with some cryptoxln, slightly fossiliferous, scattered 2ndary xln along edges, overall poor interxln/visible porosity, no shows noted, little-no fluorescence.
Viola 3611 (-1684)
3634' cfs 20" - Chert: off white bone white cream tan, fresh and sharp to slightly weathered, mostly barren, poor visible porosity in most pieces, majority having dk black staining along edges, 10% slightly bleeding dk brown free oil with fair increase upon break, visible dead tarry oil upon break in most show rocks, no odor in sample/cup, spotty bright yellow fluorescence, with interbedded Limestone: lt cream off white, chalky matrix, microxln, poor porosity, few pieces dead staining on edges.
3634' cfs 40" - Chert: as above with increase in show rocks to approximately 10% of Chert in sample, no new shows noted, with overall decrease in Limestone from above.
Simpson Shale 3636 (-1709)
Shale: gray dk gray dk green teal green brick red brown purple, round to blocky, soft to hard, some fissile, sample washes brown-red.
Simpson Sand 3644 (-1717)
Sandstone: lt gray off white lt tan matrix, vf grained, clear silica grains, well sorted and well rounded, very friable, small clean clusters, poor visible porosity, no shows noted, no fluorescence, with abundant Shale: gray dk gray brick red, round to blocky.
Shale: gray dk gray dk green brick red teal purple, mostly blocky, soft to hard, some fissile, sample washes dk red-brown.
Shale: gray dk gray green dk green teal maroon purple brick red yellow, mostly blocky and hard, abundant fissile material, sample washes dk red-brown.
Arbuckle 3680 (-1753)
3694' cfs 15" - Dolomite: cream lt tan, fxdn-coarsexln, good rhombic development, fair-good interxln/rhombic porosity, appears to be slightly tight, moderate free oil in tray, fair show golden brown free oil and gas bubbles from porosity with good increase when broken/left under lamp, streaming golden gassy/oily sheen across sample, golden brown sat stain, even bright lt yellow fluorescence, strong oil odor.
3694' cfs 30"/45" - Dolomite: as above grading to Dolomite: cream tan, fxdn-vfxln, good sucrosic development with scattered rhombic development, fair-good interxln/sucrosic porosity, mostly friable to slightly tight, abundant free oil in tray, fair-good show golden brown-free oil and gas bubbles from porosity with good increase when broken/left under lamp, streaming golden gassy/oily sheen across sample, golden brown sat stain, even bright lt yellow fluorescence, strong oil odor.
Resume Drilling Following DST #1, 1630 hrs 12.13.10
3695' - 3708' - Dolomite: lt cream lt pink tan, dense-tight matrix, microxln-vfxln, poor rhombic development, scattered small vugs, overall poor interxln/vuggy porosity, few pieces slightly bleeding golden brown free oil, fair-good increase upon break, faint golden brown sat stain, even bright lt yellow fluorescence, moderate odor in sample.
3709' - 3728' - Dolomite: lt cream lt gray, chalky in part, fxdn-coarsexln, good rhombic development in most, fair-good rhombic porosity, few pieces with fair show lt brown free oil upon break and in porosity, spotty golden brown sat stain, even bright lt yellow fluorescence, faint-moderate odor in sample.
3729' - 3742' - Dolomite: lt cream cream, vfxln-fxdn, fair-good rhombic development, fair rhombic porosity, scattered pieces with fair show lt brown free oil in porosity with slight increase upon break, spotty golden brown sat stain, even bright lt pale yellow-green fluorescence, moderate odor in sample, with scattered Chert: bone white lt yellow, fresh and sharp, oolitic in part.
3742' - 3750' - Dolomite: lt cream lt gray, vfxln-microxln with trace fxdn, fair-good rhombic development in most with scattered friable sucrosic, fair rhombic porosity to poor interxln porosity, few pieces with slight show lt brown oil in porosity with slight increase upon break, even bright lt pale yellow-green-white fluorescence, fair odor in sample, with continued Chert as above.
3760' cfs 40" - Dolomite: off white lt cream, vfxln-microxln, oomoldic, fair-good oomoldic porosity, most having fair show dk brown free oil in porosity with good increase upon break, even oily sheen across most pieces, even bright lt pale yellow-white fluorescence, moderate odor in sample, with scattered Chert as above, some slightly weathered.
Dolomite: cream lt tan, fxdn-vfxln with some scattered coarsexln, fair-good rhombic development, fair rhombic porosity, poor show dk brown free oil in porosity of few pieces with slight increase upon break, slight oily sheen across majority of pieces, even bright lt pale yellow-white fluorescence, faint-poor odor in sample, with scattered Chert as above, and scattered Chalk.
Dolomite: cream tan lt tan, fxdn-microxln, fair-poor xln development with some sub-rhombic, overall poor interxln porosity, most porosity filled by Chalk or 2ndary xln, few pieces with slight show brown free oil with little increase upon break, even bright lt pale yellow-white fluorescence, poor-no odor in sample, with continued Chert: white bone white, sharp and fresh to slightly weathered, sub-oolitic, and Chalk.
3800' cfs 20" - Dolomite: off white lt tan lt brown, vfxln-microxln, fair sucrosic and scattered sub-rhombic development, overall poor interxln porosity, very poor show brown free oil in few pieces, no other shows noted, even bright lt pale yellow fluorescence, poor-no odor in sample, with Chert: bone white, fairly weathered, oolitic in part, no shows, and scattered Chalk.



Contaminated mud system due to DST #1 recovery fluids, thus gas curves not accurate

ALLIED CEMENTING CO., LLC. 033958

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:
Russell Ks.

DATE <u>12-8-2010</u>	SEC. <u>6</u>	TWP. <u>21</u>	RANGE <u>14</u>	CALLED OUT	ON LOCATION	JOB START <u>10:00 AM</u>	JOB FINISH <u>10:30 AM</u>
LEASE <u>PFISTER</u>	WELL # <u>1-6</u>	LOCATION <u>Dundee Ks. 1 1/2 E</u>			COUNTY <u>STAFFORD</u>	STATE <u>KANSAS</u>	
OLD OR NEW (Circle one)		<u>S. To Co. line 1w 1s 1/4w</u>					

CONTRACTOR Mallard DELQ. Rig #2

TYPE OF JOB Long SURFACE

HOLE SIZE 12 1/4" T.D. 888'

CASING SIZE 8 5/8 NEW DEPTH @ 888'

TUBING SIZE 2 3/8 CSG DEPTH

DRILL PIPE DEPTH

TOOL BAFFLE Plate DEPTH @ 856'

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT 32'

CEMENT LEFT IN CSG. 32'

PERFS.

DISPLACEMENT 54.50 / BBL

EQUIPMENT

PUMP TRUCK CEMENTER GLENN

398 HELPER Richard

BULK TRUCK

481 DRIVER RON

BULK TRUCK

DRIVER

REMARKS:

Run 20 JTS, New 23 # 8 5/8 CSG.
Set @ Reviewed CIRCULATION
Mixed 350 sx 6940 2% Gel, 3% cc.
Release Plug, & Displace BBL.
H2O, LAND Plug @ 700 # & Shut
IN @ 700 #,
Cement Did Circulate
TO SURFACE. THANK'S
TO BOTTOM OF CELLAR.

CHARGE TO: Hess Oil Company

STREET _____

CITY _____ STATE _____ ZIP _____

OWNER _____

CEMENT AMOUNT ORDERED 350 sx 60% 1/40 POZ

3% CC

2% GEL

COMMON	<u>210</u>	@	<u>13.50</u>	<u>2835.00</u>
POZMIX	<u>140</u>	@	<u>7.55</u>	<u>1057.00</u>
GEL	<u>6</u>	@	<u>20.25</u>	<u>121.50</u>
CHLORIDE	<u>11</u>	@	<u>51.50</u>	<u>566.50</u>
ASC		@		
		@		
		@		
		@		
		@		
		@		
		@		
		@		
HANDLING	<u>350</u>	@	<u>2.25</u>	<u>787.50</u>
MILEAGE	<u>110 1/2 mile</u>			<u>300.00</u>
				TOTAL <u>5667.50</u>

SERVICE

DEPTH OF JOB _____

PUMP TRUCK CHARGE _____ 991.00

EXTRA FOOTAGE @ _____

MILEAGE 7.00 49.00

MANIFOL _____

RECEIVED

TOTAL 1040.00

PLUG & FLOAT EQUIPMENT

Baffle Plate 67.20

Solid Rubber Plug @ 74.00

@ _____

@ _____

@ _____

@ _____

To Allied Cementing Co., LLC.
You are hereby requested to rent cementing equipment

JOB LOG

SWIFT Services, Inc.

DATE 12-14-10 PAGE NO. 2

CUSTOMER Hess Oil Co. WELL NO. #1-6 LEASE Pfister JOB TYPE Longstring TICKET NO. 19362

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0900							on loc w/FE
								RTD 3808' 5 1/2" x 155' x 3803' x 15' Cent 1-5 Basket 5
	1245							start FE
	1420							Break Circ
	1445	2.5	7/5					Plug BH & MH 50sks EA-2
	1455	4.5	0			200		start Mud Flush
		4.5	12/0			200		start KCL Flush
		5.5	20/0			250		start Cement 150sks EA-2
	1510		36					End Cement Wash PTL Drop LD Plug
	1515	6	0			100		start Displacement
		4	60			150		catch Cement
	1535		90			600/120		Land Plug Release pressure Float Held

RECEIVED
SWIFT
DEC 14 2010

Thank you
Nick, Josh F. & Rob