

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

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

Gas DH EOR

OG GSW

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 EOR Conv. to SWD
 Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

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 Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

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 Geologist Report / Mud Logs <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				

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
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)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____			
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> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Deutsch Oil Company

5/26S/11W Pratt, KS

8100 East 22nd Street North
Building 600

Clark-Fraley #3-5

ATTN: Kent Deutsch/Aaron Y

Job Ticket: 63823

DST#: 1

Test Start: 2018.11.06 @ 11:37:00

GENERAL INFORMATION:

Formation: **Mississippian**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:27:50

Time Test Ended: 19:08:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Jimmy Ricketts

Unit No: 80

Interval: **4020.00 ft (KB) To 4175.00 ft (KB) (TVD)**

Total Depth: 4175.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1852.00 ft (KB)

1845.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 8369 Outside

Press@RunDepth: 1070.37 psig @ 4021.00 ft (KB)

Start Date: 2018.11.06

End Date: 2018.11.06

Start Time: 11:37:01

End Time: 19:08:30

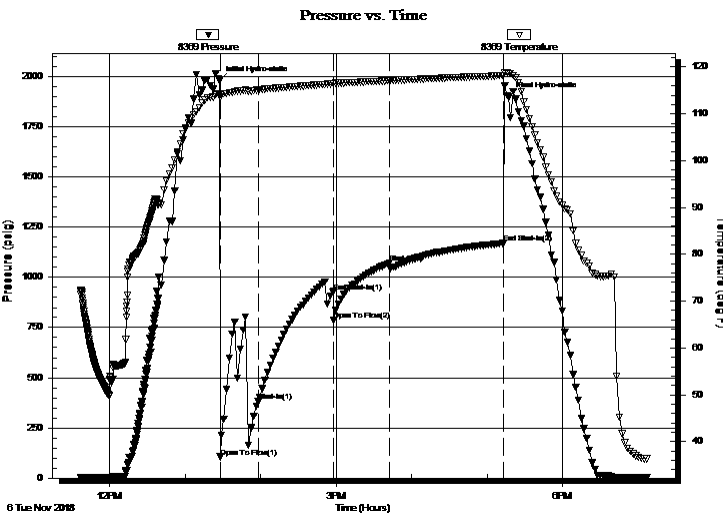
Capacity: 8000.00 psig

Last Calib.: 1899.12.30

Time On Btm: 2018.11.06 @ 13:27:20

Time Off Btm: 2018.11.06 @ 17:17:09

TEST COMMENT: IF - Weak blow building to 4 inches initial flow period.
FF - Weak blow building to 1/2 inch then dying during final flow period.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1978.21	114.24	Initial Hydro-static
1	105.60	113.56	Open To Flow (1)
31	381.31	115.16	Shut-In(1)
91	929.46	116.41	End Shut-In(1)
91	785.33	116.43	Open To Flow (2)
135	1070.37	117.09	Shut-In(2)
226	1169.34	118.17	End Shut-In(2)
230	1897.83	118.66	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
25.00	Drilling mud 100% M	

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Deutsch Oil Company

5/26S/11W Pratt, KS

8100 East 22nd Street North
Building 600

Clark-Fraley #3-5

Job Ticket: 63823

DST#: 1

ATTN: Kent Deutsch/Aaron Y

Test Start: 2018.11.06 @ 11:37:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
25.00	Drilling mud 100% M	

Total Length: 25.00 ft Total Volume: bbl

Num Fluid Samples: 0

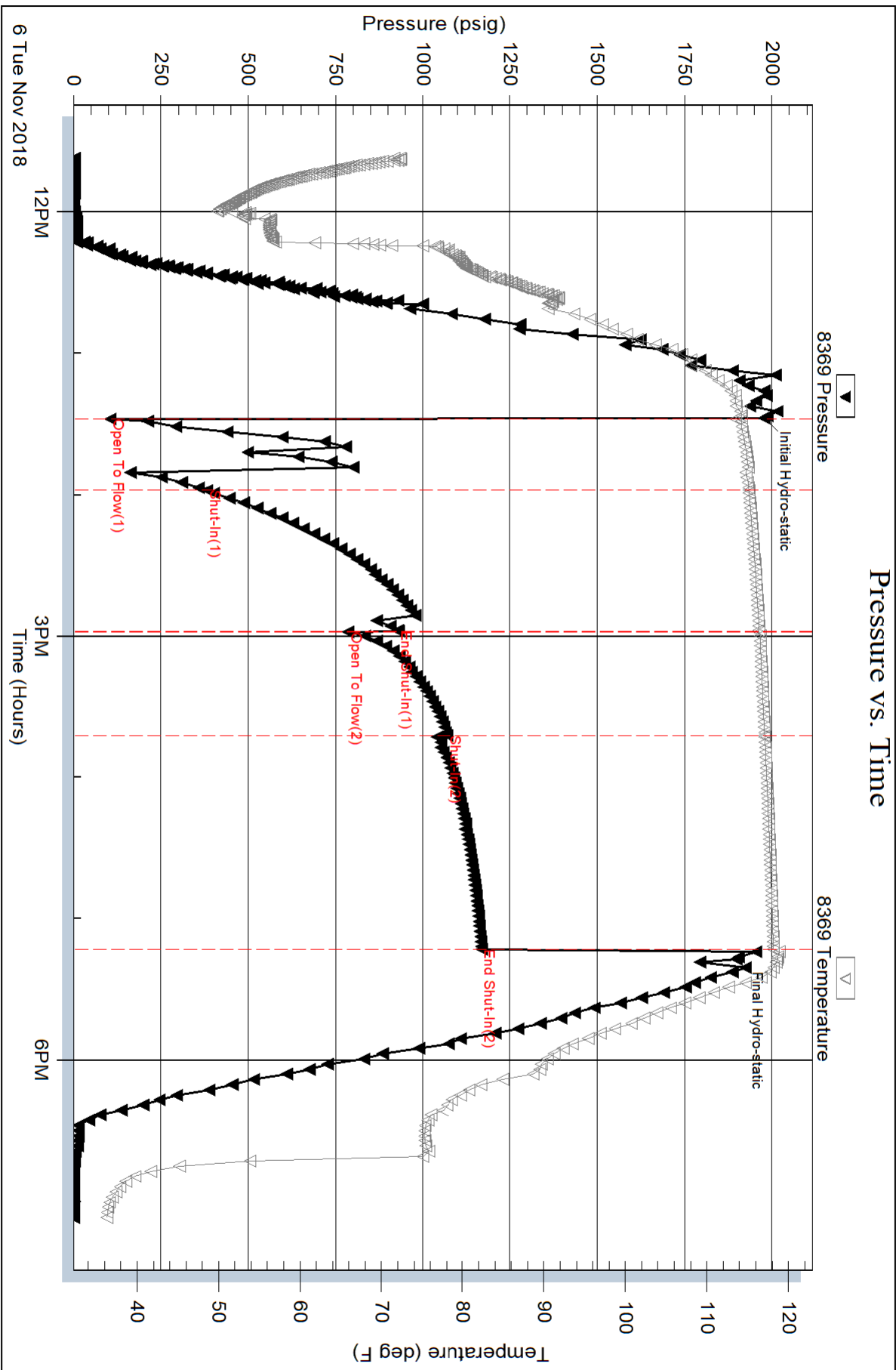
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



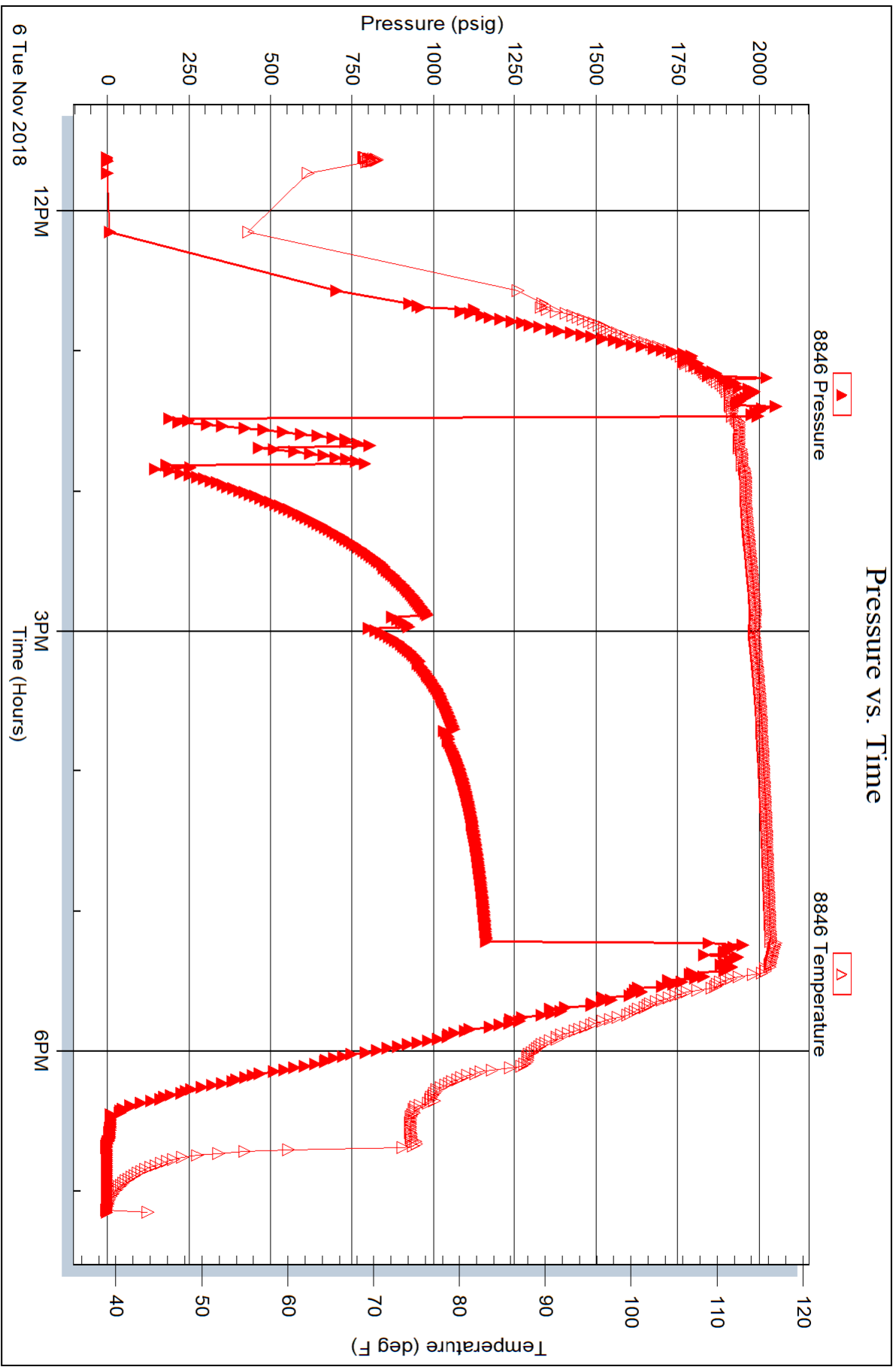
Serial #: 8846

Inside

Deutsch Oil Company

Clark-Fraley #3-5

DST Test Number: 1





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Deutsch Oil Company
 8100 East 22nd Street North
 Building 600
 Wichita, KS 67226
 ATTN: Kent Deutsch/Aaron Y

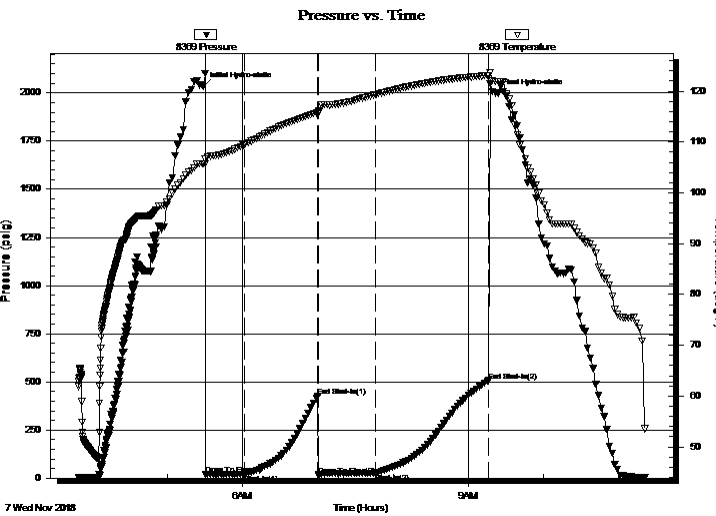
5/26S/11W Pratt, KS
Clark-Fraley #3-5
 Job Ticket: 63824 **DST#: 2**
 Test Start: 2018.11.07 @ 03:49:00

GENERAL INFORMATION:

Formation: **Viola**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 05:30:20 Tester: Jimmy Ricketts
 Time Test Ended: 11:20:50 Unit No: 80
 Interval: **4202.00 ft (KB) To 4210.00 ft (KB) (TVD)** Reference Elevations: 1852.00 ft (KB)
 Total Depth: 4210.00 ft (KB) (TVD) 1845.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 7.00 ft

Serial #: 8369 Outside
 Press@RunDepth: 25.51 psig @ 4203.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2018.11.07 End Date: 2018.11.07 Last Calib.: 1899.12.30
 Start Time: 03:49:01 End Time: 11:20:50 Time On Btm: 2018.11.07 @ 05:28:30
 Time Off Btm: 2018.11.07 @ 09:21:50

TEST COMMENT: IF - Weak blow building to 3 inches during initial flow period.
 FF Weak blow building to 3 inches during final flow period.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2034.71	105.77	Initial Hydro-static
2	18.34	105.70	Open To Flow (1)
33	20.09	109.47	Shut-In(1)
92	426.67	115.78	End Shut-In(1)
93	16.28	115.90	Open To Flow (2)
138	25.51	119.30	Shut-In(2)
228	505.84	123.09	End Shut-In(2)
234	1998.64	121.88	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	Slight oil spotted mud TR O & 100% M	

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Deutsch Oil Company

5/26S/11W Pratt, KS

8100 East 22nd Street North
Building 600
Wichita, KS 67226
ATTN: Kent Deutsch/Aaron Y

Clark-Fraley #3-5

Job Ticket: 63824

DST#: 2

Test Start: 2018.11.07 @ 03:49:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
20.00	Slight oil spotted mud TR O & 100% M	

Total Length: 20.00 ft Total Volume: bbl

Num Fluid Samples: 0

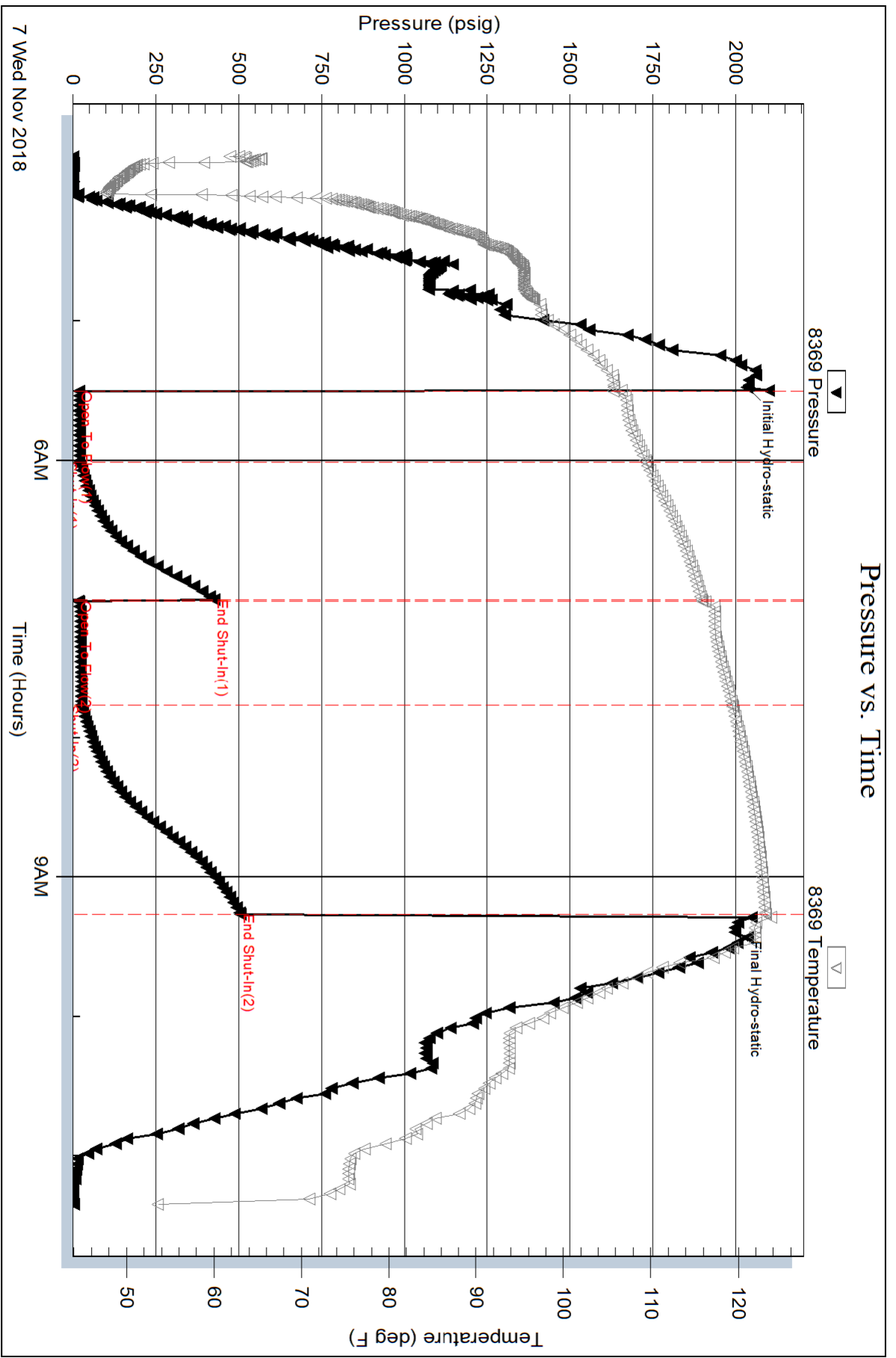
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



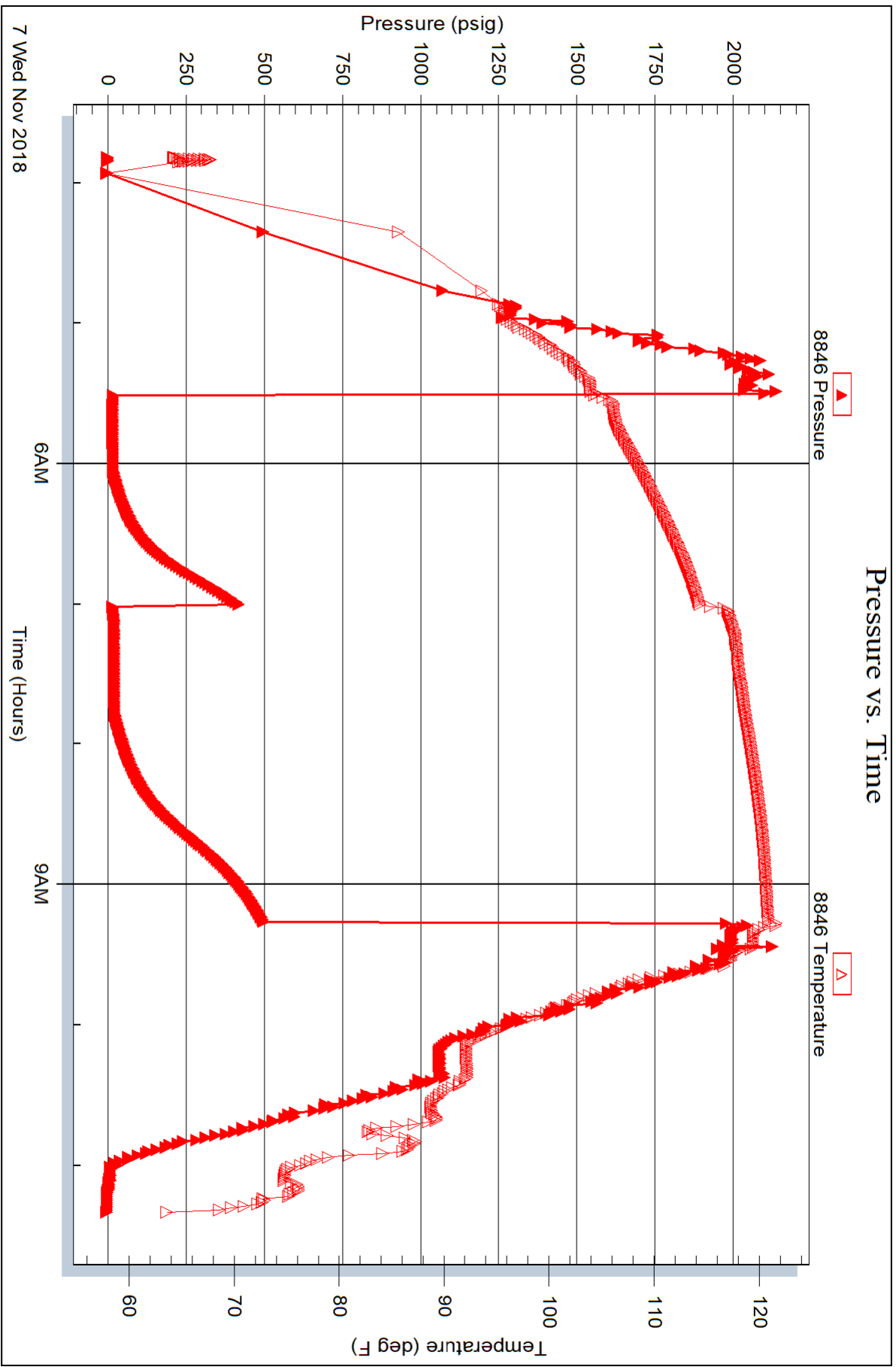
Serial #: 8846

Inside

Deutsch Oil Company

Clark-Fraley #3-5

DST Test Number: 2



BASIC

energy services, L.P.

TREATMENT REPORT

Customer <i>Deutch Oilco</i>	Lease No.	Date <i>11-6-14</i>
Lease <i>Clark Fraley</i>	Well # <i>3-5</i>	
Field Order # <i>17531</i>	Station <i>Pratt Kansas 1718</i>	Casing
Type Job <i>PTA PTA-2-42</i>	Depth <i>4370</i>	County <i>Pratt</i>
	Formation <i>210-416</i>	State <i>KS</i>
		Legal Description <i>S.065-11W</i>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
Depth	Depth <i>4370</i>	From	To	Pre Pad	Max		5 Min.	
Volume	Volume <i>62</i>	From	To	Pad	Min		10 Min.	
Max Press	Max Press <i>500</i>	From	To	Frac	Avg		15 Min.	
Well Connection	Annulus Vol. <i>172</i>	From	To		HHP Used		Annulus Pressure	
Plug Depth	Packer Depth	From	To	Flush	Gas Volume		Total Load	

Customer Representative	Station Manager	Treater
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Service Units	<i>78866</i>	<i>77646</i>	<i>46779</i>	<i>64981</i>	<i>19916</i>				
Driver Names	<i>Fernis</i>	<i>MIKE</i>	<i>MIKE</i>	<i>David</i>	<i>David</i>				

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>1410</i>					<i>Acid 60' @ 13.5 gpm</i>
<i>1430</i>					<i>15' Plug @ 4370' Hor - 21046' Tur - 4159.04'</i>
<i>1628</i>	<i>300</i>	<i>10</i>	<i>4</i>	<i>4</i>	<i>Pump 1420 @ 13.5 gpm</i>
<i>1633</i>	<i>250</i>	<i>12.7</i>	<i>3</i>	<i>3</i>	<i>Mix 50' @ 13.8 gpm</i>
<i>1636</i>	<i>100</i>	<i>3.5</i>	<i>3</i>	<i>3</i>	<i>Pump 1420 @ 13.5 gpm</i>
<i>1644</i>	<i>400</i>	<i>7.55</i>	<i>7</i>	<i>7</i>	<i>Pump 1420 @ 13.5 gpm</i>
					<i>2 1/2" Plug @ 60' Hor - 21046' Tur - 4159.04'</i>
<i>2020</i>	<i>60</i>	<i>5</i>	<i>3.5</i>	<i>3.5</i>	<i>Pump 1420 @ 13.5 gpm</i>
<i>2025</i>	<i>100</i>	<i>12.7</i>	<i>3</i>	<i>3</i>	<i>Mix 50' @ 13.8 gpm</i>
<i>2029</i>	<i>50</i>	<i>5.6</i>	<i>3</i>	<i>3</i>	<i>Pump 1420 @ 13.5 gpm</i>
					<i>2 1/2" Plug @ 60' Hor - 20156' Tur - 158.44'</i>
<i>2055</i>	<i>80</i>	<i>5</i>	<i>3</i>	<i>3</i>	<i>Pump 1420 @ 13.5 gpm</i>
<i>2059</i>	<i>100</i>	<i>12.7</i>	<i>3.5</i>	<i>3.5</i>	<i>Mix 50' @ 13.8 gpm</i>
<i>2120</i>	<i>60</i>	<i>1.9</i>	<i>3</i>	<i>3</i>	<i>Pump 1420 @ 13.5 gpm</i>
					<i>4 1/2" Plug @ 60' Hor - 60' Tur - 4159.04'</i>
<i>2200</i>	<i>60</i>	<i>5</i>	<i>3</i>	<i>3</i>	<i>Mix 20' @ 13.5 gpm</i>
<i>2210</i>	<i>60</i>	<i>7.5</i>	<i>3</i>	<i>3</i>	<i>Plug 15' @ 60' Hor - 60' Tur - 4159.04'</i>
					<i>Run down, leave in place</i>
					<i>The rest of the run</i>

10244 NE Hiway 61 • P.O. Box 8613 • Pratt, KS 67124-8613 • (620) 672-1201 • Fax (620) 672-5383

QUALITY WELL SERVICE, INC.

6965

Federal Tax I.D. # 481187368

Home Office 30060 N. Hwy 281, Pratt, KS 67124

Mailing Address P.O. Box 468

Office 620-727-3410

Fax 620-672-3663

Rich's Cell 620-727-3409

Brady's Cell 620-727-6964

Date	Sec.	Twp.	Range	County	State	On Location	Finish
10-31-18	5	26S	11W	PRATT	KS		
Lease CLARK-FARLEY Well No. 3-5				Location PRATT KS 3 N 1 E 1/2 N 1/4 into			
Contractor Piddell Dels Rig 10				Owner			
Type Job SURFACE				To Quality Well Service, Inc.			
Hole Size 12 1/4				You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.			
Csg. 25/8 23'		Depth 313'		Charge To DEUTSCH OIL COMPANY			
Tbg. Size		Depth		Street			
Tool		Depth		City			
Cement Left in Csg.		Shoe Joint 25'		State			
Meas Line		Displace 13.43		The above was done to satisfaction and supervision of owner agent or contractor.			
EQUIPMENT				Cement Amount Ordered 320 SK Common			
Pumptrk 8 No.	75		21 GEL 3 1/2 CC 1/2" CF				
Bulktrk 7 No.	JAKE		Common 320 SK 15 SK TOP OFF				
Bulktrk No.			Poz. Mix				
Pickup No.	1000		Gel. 6 SK				
JOB SERVICES & REMARKS				Calcium 11 SK			
Rat Hole				Hulls			
Mouse Hole				Salt			
Centralizers				Flowseal 160			
Baskets				Kol-Seal			
DN or Port Collar				Mud CLR 48			
Run 7 H's 25/8 23' csg set @ 313'				CFL-117 or CD110 CAF 38			
Csg on Bottom Hook up to csg				Sand			
Break circ				Handling 337+15-352			
Start Pumping 15 bbl H ₂ O				Mileage 10 / 6300			
Start mix & Pump 320 SK Common				27/8 FLOAT EQUIPMENT			
21 GEL 3 1/2 CC 1/2" CF				Guide Shoe WOODEN Plug			
SHUT DOWN				Centralizer HEAD & manifold			
Release 27/8 WOODEN Plug				Baskets			
START DISO				AFU Inserts			
Plug down @ 4:15				Float Shoe			
Close Valves on csg				Latch Down			
Good circ thru job				SERVICE Supervisor			
Circ out to pit				LMV 20			
Down the Working on Pump Truck				Pumptrk Charge SURFACE			
Thank you please call AGAIN				Mileage 20			
2000 IS JAKE				Tax			
Signature				Discount			
				Total Charge			

Geologic Report
Aaron L. Young

Drilling Time and Sample Log

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

Well Name: Clark Fraley #3-5
API: 15-151-22477
Location: Section 5 - T26S - R11W
License Number: 3180
Spud Date: 10 / 30 / 2018
Surface Coordinates: 2310' FSL and 2310' FEL
Approx. NW - NW - SE
Region: Pratt Co., KS
Drilling Completed: 11 / 09 / 2018
Bottom Hole Coordinates:
Ground Elevation (ft): 1845' K.B. Elevation (ft): 1852'
Logged Interval (ft): 3300' To: 4390' Total Depth (ft): 4390'
Formation: Arbuckle
Type of Drilling Fluid: Mud-Co

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

OPERATOR

Company: Deutsch Oil Company
Address: 8100 E 22nd St N, Bldg 600
Wichita, KS 67226

GEOLOGIST

Name: Aaron L. Young, M. S.
Company: Young Consulting LLC
Address: 100 S Main Ste 505
Wichita, KS 67202

General Info

CONTRACTOR: Pickrell Drilling, Rig #10

BIT RECORD:

No.	Size	Make	Jets	Out	Feet	Hours
1	12-1/4	RR	15-15-15	314'	307'	3.25
2	7-7/8	HA 20C	14-14-14	4083'	3769'	81.25
3	7-7/8	HF 44	14-14-14	4390'	307'	20.75

Surveys: 314-.25, 825'-.75, 1327'-.25, 1802'-.75, 2338'-.75, 2844'-.75, 4175'-1

GENERAL DRILLING AND PUMP INFORMATION:

Drilling with 38,000 -40,000 lbs. on bit and approx 70-80 RPM.
Running 9 stands of collars; 533.22'
Pumping approx 950-1050 psi at standpipe; 60 strokes/min

Daily Status

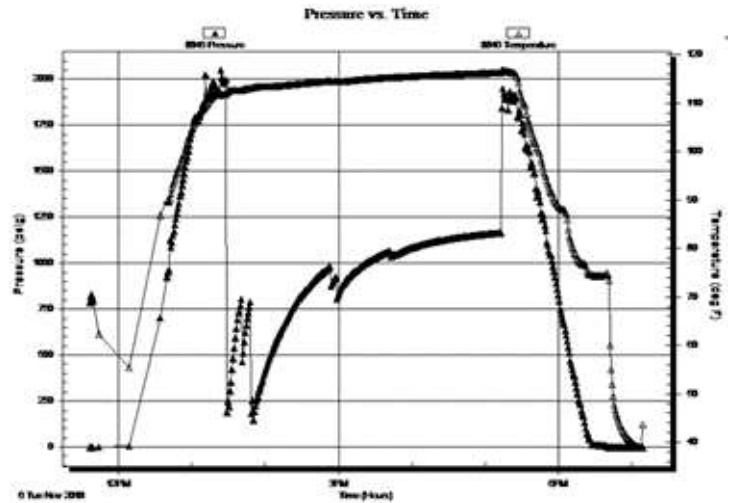
10/30/18- Spud @ 7:45pm, ran 7 jts of new 8 5/8" 23# surface casing set @ 310', cemented w/ 320 sx. 60/40 common, 2% gel & 3% CC, 1/2# cellflake. Plug down at 4:14am. Cement did circulate.
 10/31/18 - WOC. Cement dropped 20' from surface, topped off with 20 sx common.
 11/01/18 - Drilling, @ 625'
 11/02/18 - Drilling, @ 1845'
 11/03/18 - Drilling, @ 2720'
 11/04/18 - Drilling, @ 3545'
 11/05/18 - DST #1
 11/06/18 - TD @ 4175', running Elogs.
 11/07/18 - DST #2
 11/08/18 - CFS @ 4380'
 11/09/18 - RTD 4390', Decision made to plug well. Plugged with 50 sx at 4370', 50 sx at 630', 50 sx at 360', 20 sx at 60', 30 sx in rat hole. Cement: 60/40 pozmix, 4% gel. Plug down at 10:10pm.

DST #1 MISSISSIPPI
 4020'-4175' 30"-60"-45"-90"

IF: Weak blow built to 4"
 FF: Weak blow building to 1/2"

Rec'd: 25' M (100% M)

SIP's: 929-1169#
 FP's: 106-381#, 785-1070#
 HP's: 1978-1898#

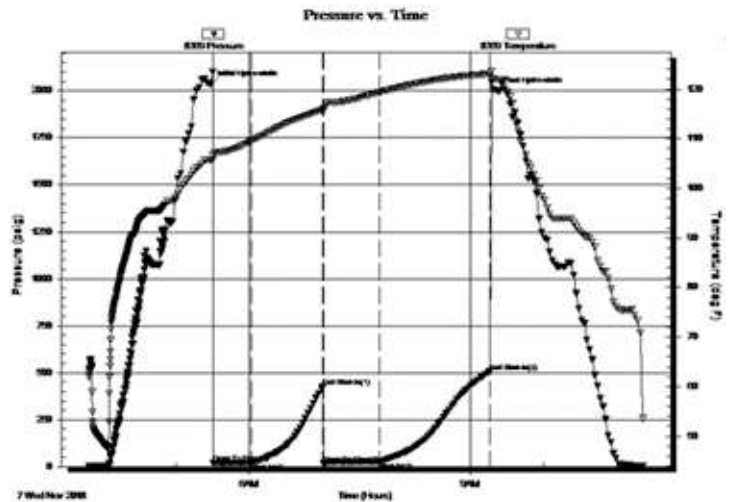


DST #2 VIOLA
 4202'-4210' 30"-60"-45"-90"

IF: Weak blow built to 3"
 FF: Weak blow built to 3"

Rec'd: 20' M (100% M) Slightly oil spotted

SIP's: 426-506#
 FP's: 18-20#, 16-26#
 HP's: 2035-1999#



ROCK TYPES

	Anhy		Gyp		Shgy		Sandylms
	Bent		Igne		Sltst		Shale
	Brec		Lmst		Ss		Sltstn
	Cht		Meta		Till		Shlyslts
	Clyst		Mrlst		Carb sh		Slttysh
	Coal		Salt		Dol		Lms
	Congl		Shale		Dtd		
	Dol		Shcol		Gry sh		

ACCESSORIES

MINERAL

- 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
- Chlorite
- Dol
- Sand
- Sltly

FOSSIL

- Algae
- Amph
- Belm
- Bioclst
- Brach
- Bryozoa
- Cephal
- Coral
- Crin
- Echin
- Fish
- Foram

- Fossil
- Gastro
- Oolite
- Ostra
- Pelec
- Pellet
- Pisolite
- Plant
- Strom
- Fuss
- Oomold

STRINGER

- Anhy
- Arg
- Bent
- Coal
- Dol
- Gyp
- Ls
- Mrst
- Sltstrg
- Ssstrg
- Carbsh

- Clystn
- Dol
- Grysh
- Gryslt
- Lms
- Sandylms
- Sh
- Sltstn

TEXTURE

- Boundst
- Chalky
- Cryxln
- Earthy
- Finexln
- Grainst
- Lithogr
- Microxln
- Mudst
- Packst
- Wackest

OTHER SYMBOLS

POROSITY TYPE

- Earthy
- Fenest
- Fracture
- Inter
- Moldic
- Organic
- Pinpoint
- Vuggy

SORTING

- Well
- Moderate
- Poor

ROUNDING

- Rounded
- Subrnd
- Subang
- Angular

OIL SHOWS

- Even
- Spotted
- Ques
- Dead
- Gas show

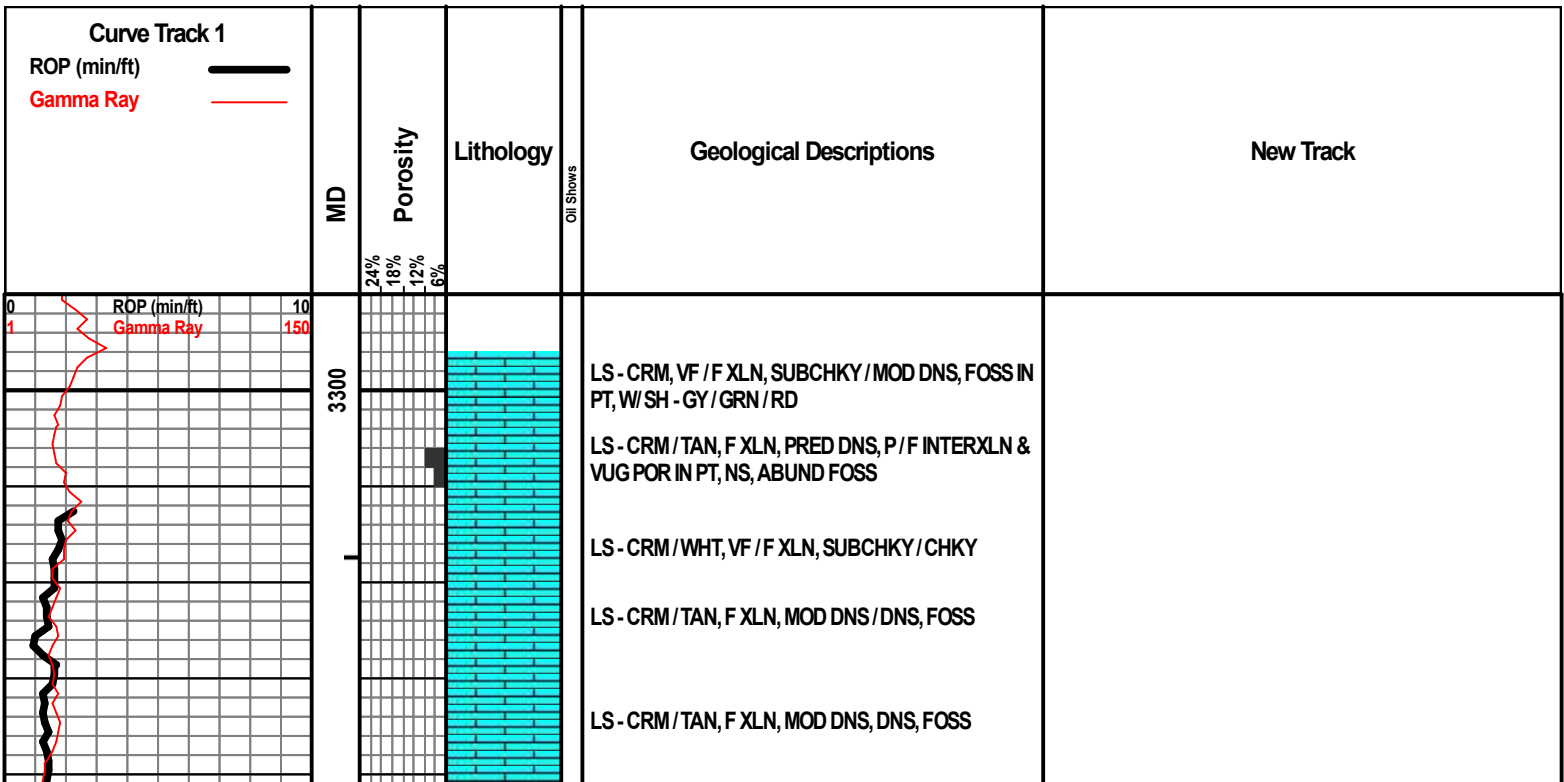
INTERVALS

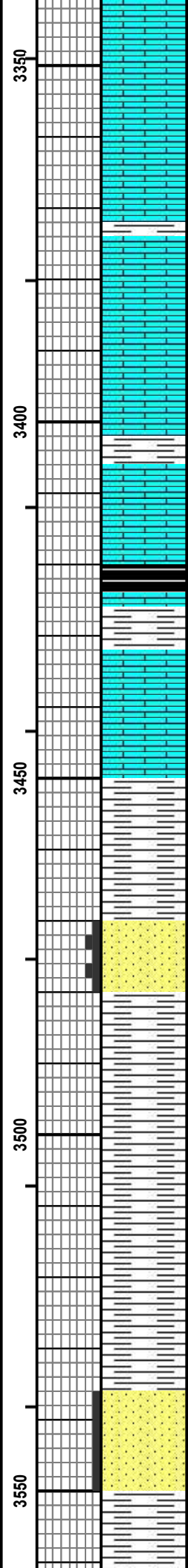
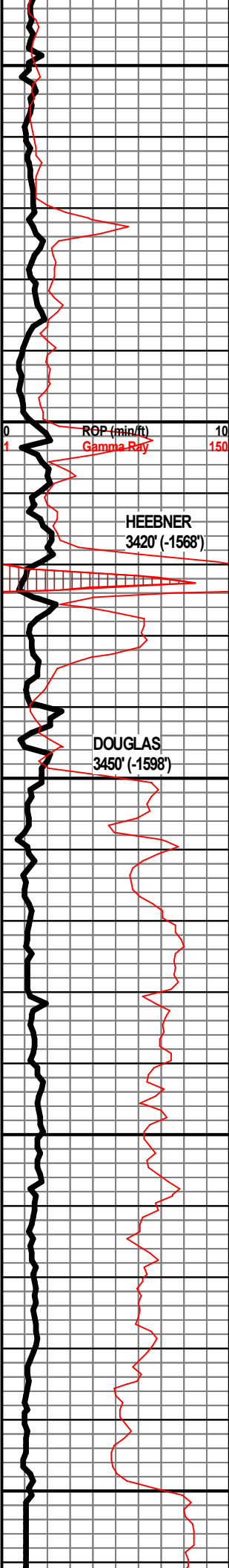
- Core
- Dst

- Dst

EVENTS

- Rft
- Sidewall
- Conn





LS - CRM / TAN / LT BRN IN PT, VF / F XLN, MOD DNS, FOSS

LS - CRM, VF XLN, SUBCHKY / MOD DNS, FOSS IN PT

LS - TAN / BRN, F XLN, MOD DNS, P / F OOLMOLDIC POR, NS, NO ODOR, ABUND OF OOLITES, FOSS, W / SH - GRN / RD / GY

LS - CRM / WHT, VF XLN, SUBCHKY / CHKY

LS - CRM / TAN, F XLN, DNS / MOD DNS, FOSS

SH - GY / GRN / RD / PURP IN PT, W / LS - CRM / TAN, F XLN, MOD DNS / DNS, FOSS IN PT

LS - CRM / TAN / GY IN PT, F XLN, DNS FOSS IN PT

SH - DK GY / BLK, CARB

SH - GRN / GY / RD, W / LS - TAN / GY, F XLN, DNS, FOSS

LS - CRM / TAN, F XLN, MOD DNS / DNS, FOSS IN PT

LS - TAN / GY / BRN, F XLN, MOD DNS / DNS, FOSS

SH - GY / DK GY, PYRITIC IN PT

SS - CLR / GY, VF GR, SUB-RND, W SRTED, W CEM, P INTGR POR IN PT, NS, NO ODOR, GLAUC IN PT

SH - LT GY / GY, SLTY IN PT

SH - LT GY / GY, SLTY IN PT

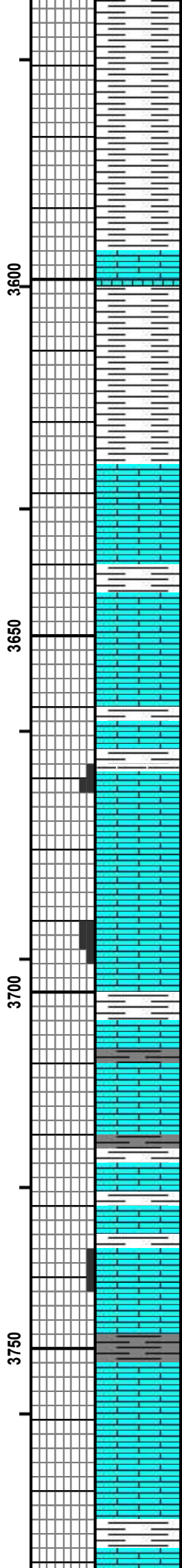
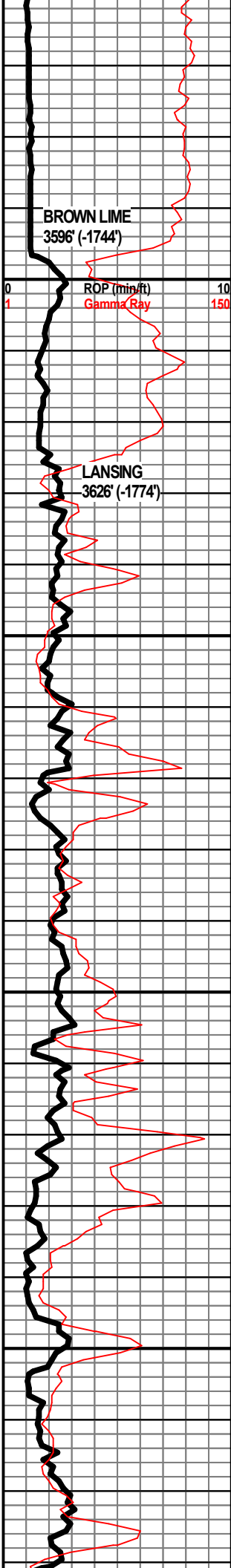
SS - CLR / GY, VF GR, SUB-ANG / SUB-RND, W SRTD, W CEM, PRED DNS, P INTGR POR IN PT, W, SH - LT GY / GY

SH - LT GY / GY

WT 8.5
 VIS 50
 LCM 2#

WT 8.5
 VIS 49
 LCM 2#

WT 8.9



SH - LT GY / GY

SH - LT GY / GY

LS - BRN / TAN / CRM, F XLN, MOD DNS / DNS, FOSS

SH - LT GY

SH - GY / RD

LS - CRM, VF / F XLN, SUBCHKY

SH - RD / GRN / GY, W / LS - CRM / TAN, F XLN, DNS, FOSS

LS - TAN / CRM, F XLN, MOD DNS, DNS, FOSS IN PT

LS - TAN / GY / CRM IN PT, VF / F XLN, PRED DNS, MOD DNS / SUBCHKY IN PT, FOSS, W / SH - GY

LS - CRM, VF / F XLN, F / G INTXLN POR, FSFO, VLT BRN OIL DROPLET, SHO OF GAS BUB, F YEL-GRN FLUOR, G ODOR

LS - TAN / GY, F XLN MOD DNS / DNS, FOSS

LS - CRM, VF / F XLN, P / F INTXLN POR, VSSFO, ABUND OIL SHEEN, G ODOR, DULL FLUOR

LS - TAN / BRN / CRM, F XLN, MOD DNS / DNS, FOSS, W / SH - GY

SH - DK GY, SLI CARB IN PT, W / LS - CRM / WHT, VF XLN, SUBCHKY / CHKY

SH - DK GY / BLK, SLI CARB, W / LS - DK GY, F / M XLN, MOD DNS / DNS

SH - GRN / RD / GY, W / LS - TAN / GY, F XLN, MOD DNS / DNS FOSS

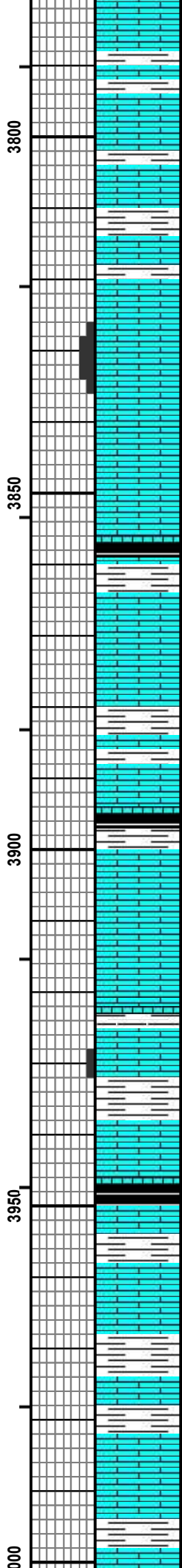
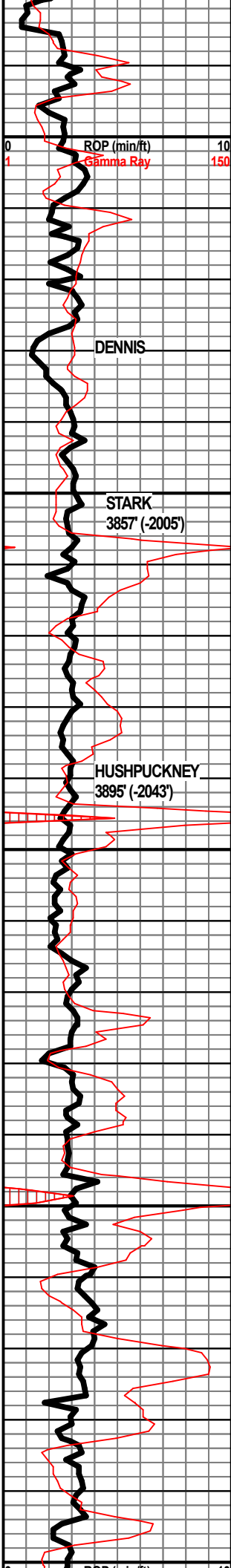
LS - CRM / TAN, VF XLN, CHKY, P INTXLN POR IN PT, VSSFO UPON BREAK, SLI ODOR UPON BREAK, F FLUOR

SH - GY / DK GY, W / LS - TAN / BRN / GY, F XLN, MOD DNS / DNS, ABUND FOSS

LS - CRM / WHT, VF XLN, SUBCHKY / CHKY, VCHKY IN PT

WT 9.0
VIS 50
LCM 2#

WT 9.2
VIS 50
LCM 2#



SH - GRN / RD, W/LS - CRM, VF XLN, SUBCHKY / CHKY

SH - GRN / GY, W/LS - CRM / TAN, VF / F XLN, MOD DNS / SUBCHKY, FOSS IN PT

SH - GRN / RD, W/LS - CRM / TAN, VF / F XLN, MOD DNS / SUBCHKY

SH - GRN / RD / GY, W/LS - CRM / WHT, VF XLN, SUBCHKY / CHKY, VCHKY IN PT

LS - CRM / TAN, F XLN, MOD DNS / DNS, FOSS IN PT, W/SH - GY

LS - CRM / TAN, VF / F XLN, MOD DNS / DNS, FOSS, SUBCHKY IN PT, P / F INTERXLN POR IN POR, NSFO, SLI OIL SHEEN, SLI ODOR, FOSS

LS - CRM, VF / F XLN, MOD DNS / SUBCHKY, FOSS IN PT

LS - GY / TAN, F XLN, DNS, FOSS

SH - GY / BLK, CARB, W/LS - CRM, VF / F XLN, SUBCHKY / MOD DNS

LS - CRM, VF / F XLN, MOD DNS / DNS, SUBCHKY IN PT

LS - CRM / TAN, F XLN, MOD DNS / DNS, FOSS IN PT

SH - GRN / RD, W/LS - CRM, VF / F XLN, SUBCHKY / CHKY

SH - DK GY / BLK, SLI CARB, W/LS - CRM, VF / F XLN, MOD DNS, FOSS IN PT

LS - CRM / TAN / GY, F XLN, MOD DNS, ABUND OF FOSS IN GY PIECES

LS - CRM / TAN, F XLN, MOD DNS / DNS, FOSS, W/SH - RD / GRN / GY

LS - CRM / WHT IN PT, VF / F XLN, P INTXLN POR IN PT, VSSFO, V LT BRN OIL, OIL SHEEN UPON BREAK, G ODOR UPON BREAK, YEL-GRN FLUOR

SH - RD / GRN / GY, W/LS - CRM, VF / F XLN MOD DNS / SUBCHKY

SH - DK GY / BLK, SLI CARB, W/LS - CRM / VF / F XLN, MOD DNS / SUBCHKY, FOSS IN PT

SH - RD / GRN, W/LS - CRM, VF / F XLN, MOD DNS, SUBCHKY IN PT, FOSS

LS - CRM, VF XLN, SUBCHKY / MOD DNS IN PT, W/SH - RD / GRN / GY

LS - CRM / TAN, VF / F XLN, MOD DNS / DNS, FOSS

SH - RD / GRN / GY, W/LS - CRM / TAN, F XLN, MOD DNS / DNS, FOSS IN PT

WT 9.1
VIS 48
LCM 2#

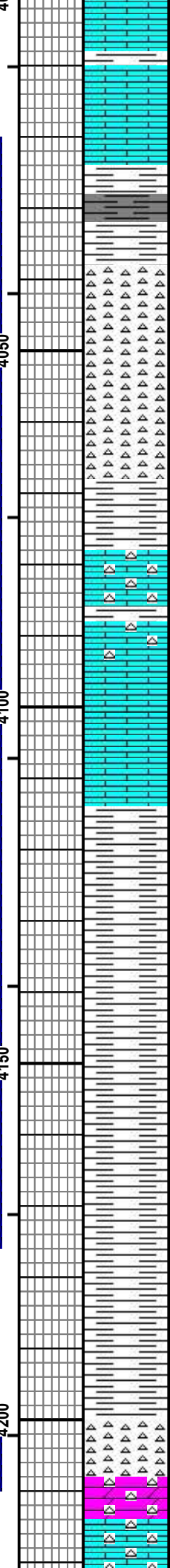
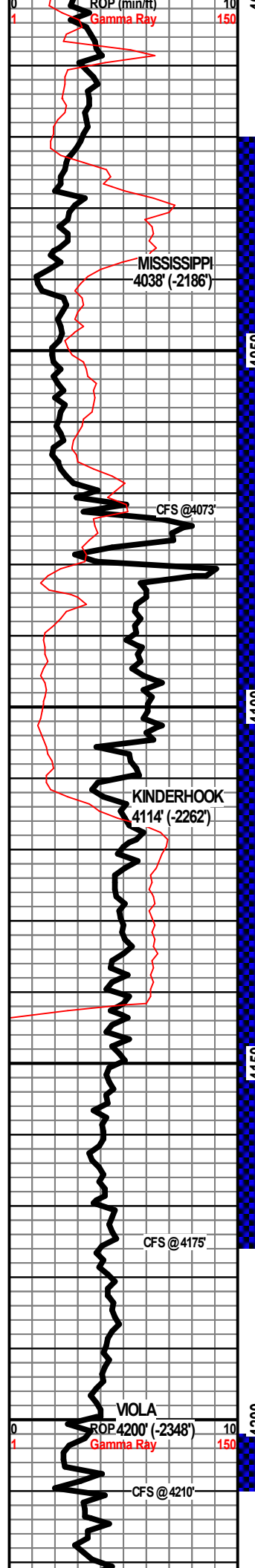
WT 9.2
VIS 53
LCM 2#

WT 9.2
VIS 58
LCM 2#

WT 9.1
VIS 57
LCM 2#

WT 9.2
VIS 58
LCM 2#

WT 9.2
VIS 59
LCM 1.5#



LS - TAN / GY, VF / F XLN, MOD DNS / DNS, FOSS

LS - CRM / TAN / GY, VF / F XLN, MOD DNS / DNS, SUBCHKY IN PT, FOSS

SH - RD / GRN / GY

SH - DK GY BLK, SLI CARB IN PT

CHT - WHT / GY, SLI TRANSLUCNT, FRSH IN PT, PRED WEATH, F / G WEATH POR, FSFO, G SHO OF GAS, DULL YEL-GRN FLUOR

CHT - WHT / GY, SLI TRANSLUCNT IN PT, 50% FRSH, 50% WEATH, F WEATH POR, FSFO, G SHO GAS, DULL YEL-GRN FLUOR

CHT - WHT / GY, SLI TRANSLUCNT, FRSH IN PT, PRED WEATH, F / G WEATH POR, FSFO, G SHO GAS, DULL YEL-GRN FLUOR

SH - LT GY

LS - CRM / TAN, VF / F XLN, MOD DNS / SUBCHKY, V CHTY W / FRSCH CHT - WHT / YEL IN PT, FRSH, TRANSLUCNT

LS - CRM / TAN / GY IN PT, VF / F XLN, SUBCHKY / MOD DNS, DNS IN PT, FOSS IN PT

LS - TAN / GY, F / M XLN, MOD DNS / DNS, FOSS IN PT

SH - TURQ / GRN / GY

SH - GRN / GY

SH - GRN / GY

SH - LT GY / GY

SH - LT GY, V SOFT

SH - LT GY / DK GY, FOSS IN PT, PYRITIC IN PT

SH - GY / PURP / GRN

SH - LT GY / GRN, V SOFT IN PT

CHT - WHT, PRED WEATH, FRSH IN PT, PRED P WEATH POR, F WEATH POR IN PT, PIN POINT VUGS IN PT, SLI DOLOMITIC, NSFO, G SHO GAS, G ODOR, ABUND RAINBOW OIL SHEEN, V BRI NEON GRN FLUOR

DOLO - TAN / CRM / WHT, VF / XLN, SUBCHKY, V CHKY, NO VIS POR, NS

LS - CRM / WHT, VF XLN, SUBCHKY / CHKY, NO VIS POR, NS, V CHTY

WT 9.2
VIS 59
LCM 2#

DST #1
MISSISSIPPI
4020'-4175'
30"-60"-45"-90"

IF: Weak blow built to 4"
FF: Weak blow building to 1/2"

Rec'd: 25' M (100% M)

SIP's: 929-1169#
FP's: 106-381#, 785-1070#
HP's: 1978-1898#

WT 9.1
VIS 60
LCM 3#

WT 9.1
VIS 58
LCM 2#

RAN ELOGS

WT 9.1
VIS 47
LCM 2#

DST #2
VIOLA
4202'-4210'
30"-60"-45"-90"

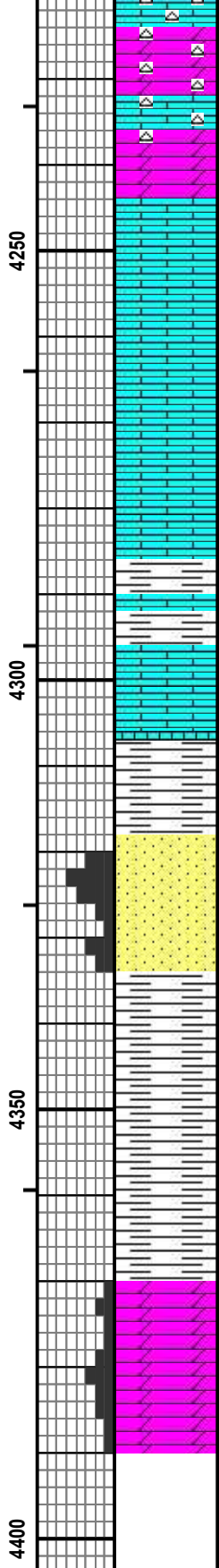
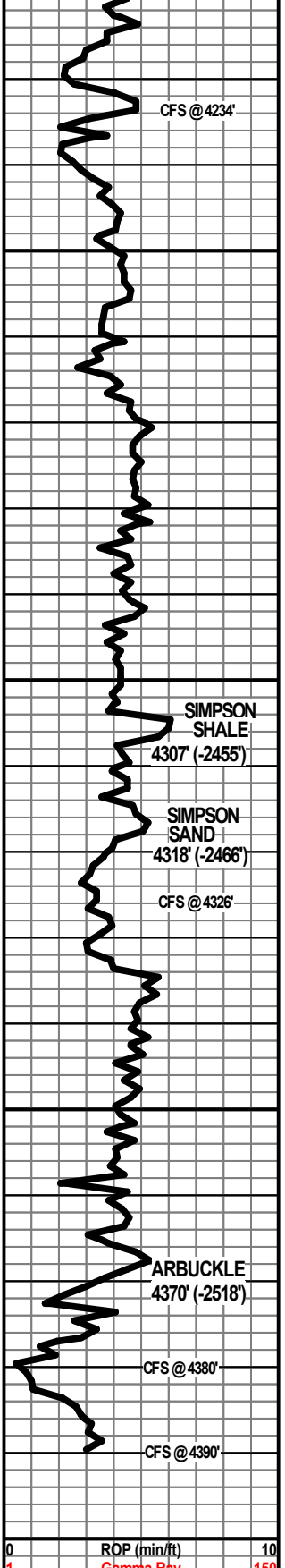
IF: Weak blow built to 3"
FF: Weak blow built to 3"

Rec'd: 20' M (100% M) Slightly oil spotted

SIP's: 426-506#
FP's: 18-20#, 16-26#
HP's: 2035-1999#

WT 9.1
VIS 49
LCM 3#

WT 8.9



DOLO - TAN / CRM, VF XLN, P / F INTXLN POR, SUCROSIC IN PT, NS, NO ODOR, DULL FLUOR, W/ CHT - TAN / WHT / GY, FRSH, PRED OPAQ, TRANSLUCNT IN PT

LS - WHT / CRM, VF XLN, CHKY, CHTY IN PT

DOLO - TAN, VF / F XLN, F / G INTXLN POR, SUCROSIC IN PT, NS, NO ODOR,

LS - WHT / CRM, VF XLN, CHKY, V CHKY IN PT, W/ CHT - WHT / TAN / GY, FRSH, OPAQ

LS - TAN / BRN, VF / F XLN, MOD DNS / DNS, W/ CHT - TAN, LT BRN, FRSH, PRED OPAQ, SLI TRANSLUCNT IN PT

LS - TAN / GY, F / M XLN, MOD DNS / DNS, W/ CHT - TAN / GY, FRSH, OPAQ

SH - RD / GY / GY / PURP

LS - TAN, F XLN, MOD DNS / DNS, W/ CHT - TAN, / GY, FRSH, OPAQ, W/ SH - GRN / GY

SH - GRN / GY / RD

SS - CLR, M GR, SUB-ANG, P SRTD, P CEM, UNCONSOLIDATED IN PT, F / G INTGR POR, NS, NO ODER, NO FLUOR, W/ FEW PIECES
SS - VF GR, SUB-RND, W SRTED, V W CEM, V DNS, NO VIS POR, NS

SS - CLR / GY, F / M GR, SUB-ANG, MOD SRTD, MOD / W CEM, P / F INTGR POR, NS, NO ODOR, NO FLUOR, PYRITIC IN PT

SH - GY

SH - GY / GRN

SH - GY / GRN

DOLO - TAN / LT BRN, F XLN, V DNS, CAN BARELY BREAK, P OOLMOLDIC & INTXLN POR, NS, NO ODOR, MOD YEL FLUOR

DOLO - TAN / LT BRN, F XLN, DNS, P / F OOLMOLDIC & INTXLN POR, NS, NO ODOR, MOD YEL FLUOR

WT 9.1
VIS 51
LCM 4#

WT 9.2
VIS 50
LCM 4#

WT 9.1
VIS 52
LCM 4#

WT 9.2
VIS 50
LCM 4#

RTD 4390'

0 ROP (min/ft) 10
1 Gamma Ray 150