

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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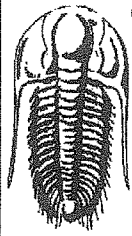
Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Daystar Petroleum, Inc.
Well Name	GRAVES 3
Doc ID	1473749

Tops

Name	Top	Datum
Heebner	3762	-880
Toronto	3777	-895
Lansing	3804	-922
Lsg "E"	3906	-1024
L/KC "H"	4012	-1130
L/KC "I"	4038	-1156
L/KC "J"	4058	-1176
KC "K"	4141	-1259
KC "L"	4181	-1299
Base KC	4267	-1385
Marmaton	4290	-1408
Altamont	4316	-1434
Pawnee	4370	-1488
Cherokee Sh	4406	-1524
Morrow Sh	4589	-1707
Mississippian	4598	-1716
St. Louis "B"	4657	-1775



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Daystar Petroleum, Inc.

16 22s 33w Finney, Ks

PO Box 560
Eureka, Ks 67045

Graves #3

Job Ticket: 64370

DST#: 1

ATTN: Jon Christensen

Test Start: 2019.08.04 @ 13:01:00

GENERAL INFORMATION:

Formation: **LKC I and Upper J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:23:15

Time Test Ended: 21:47:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Bradley Walter

Unit No: 78

Interval: **4032.00 ft (KB) To 4061.00 ft (KB) (TVD)**

Total Depth: 4061.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2882.00 ft (KB)

2871.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 8522

Inside

Press@RunDepth: 177.82 psig @ 4033.00 ft (KB)

Start Date: 2019.08.04

End Date:

2019.08.04

Start Time: 13:01:00

End Time:

21:47:00

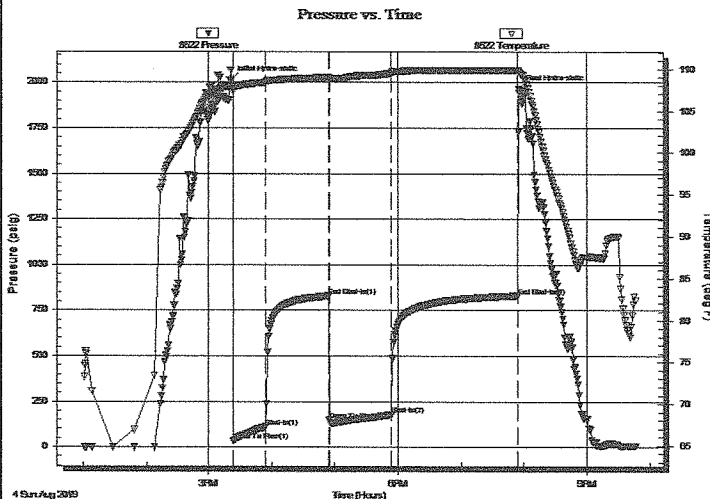
Capacity: 8000.00 psig

Last Calib.: 2019.08.04

Time On Btm: 2019.08.04 @ 15:21:00

Time Off Btm: 2019.08.04 @ 19:55:15

TEST COMMENT: 30- IF: BOB @ 21 min, built to 14".
60- IS: 3/4" return.
60- FF: BOB @ 25 min, built to 19 1/2"
120- FS: No return.



PRESSURE SUMMARY

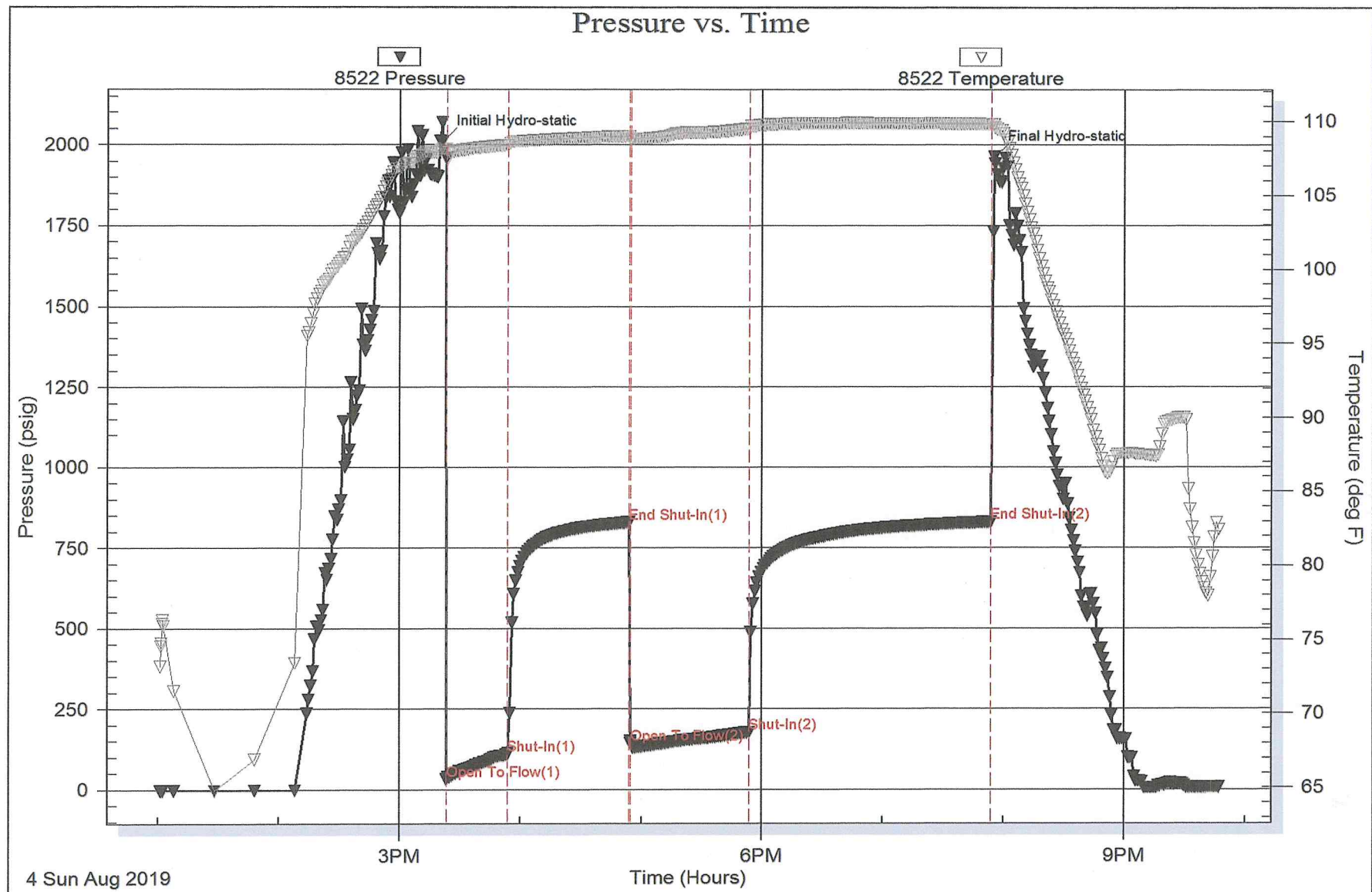
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2010.43	108.11	Initial Hydro-static
3	31.81	107.42	Open To Flow (1)
33	109.37	108.40	Shut-In(1)
93	829.01	109.01	End Shut-In(1)
94	143.38	108.74	Open To Flow (2)
153	177.82	109.51	Shut-In(2)
273	829.47	109.82	End Shut-In(2)
275	1962.94	109.82	Final Hydro-static

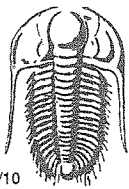
Recovery

Length (ft)	Description	Volume (bbl)
120.00	gw ocm 20g 15w 30o 35m	0.59
120.00	gmco 25g 20m 55o	0.59
170.00	go 30g 70o	2.34
0.00	380' GIP	0.00

Gas Rates

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





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 64370

Well Name & No. Graves #3 Test No. 1 Date 8/04/2019
 Company Daystar Petroleum, Inc Elevation 2882 KB 2871 GL
 Address PO Box 560 Eureka, ks 67045
 Co. Rep / Geo. Jon Christensen Rig Muffin #21
 Location: Sec. 16 Twp. 28s Rge. 33w Co. Finney State Ks

Interval Tested 4032 - 4061 Zone Tested LKC I and upper J
 Anchor Length 29' Drill Pipe Run 3766 Mud Wt. 9.1
 Top Packer Depth 4027 Drill Collars Run 245 Vis 6.7
 Bottom Packer Depth 4032 Wt. Pipe Run Ø WL 7.2
 Total Depth 4061 Chlorides 2050 ppm System LCM 4#

Blow Description TF: BOB @ 21 min built to 14".
ISI: 3/4" return.
FF: BOB @ 25 min built to 19 1/2".
FSI: No return.

**10,800 c1 -
on DST wtr
by Mud Co.**

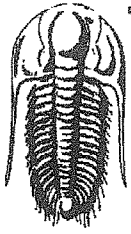
Rec	Feet of	%gas	%oil	%water	%mud
<u>170</u>	<u>60</u>	<u>30</u>	<u>70</u>		
<u>120</u>	<u>GMCO</u>	<u>25</u>	<u>55</u>	<u>20</u>	
<u>120</u>	<u>GWOCM</u>	<u>20</u>	<u>30</u>	<u>15</u>	<u>35</u>
<u>380</u>	<u>GTP</u>				

Rec Total 410 BHT 110 Gravity 2.6 API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic 2010 Test _____ T-On Location 2330 8/03
 (B) First Initial Flow 32 Jars _____ T-Started 0101
 (C) First Final Flow 109 Safety Joint _____ T-Open 0324
 (D) Initial Shut-In 829 Circ Sub _____ T-Pulled 0754
 (E) Second Initial Flow 143 Hourly Standby _____ T-Out _____
 (F) Second Final Flow 178 Mileage 60 RT _____ Comments _____
 (G) Final Shut-In 829 Sampler _____
 (H) Final Hydrostatic 1963 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total _____
 Day Standby _____ Total _____
 Accessibility _____ MP/DST Disc't _____
 Sub Total _____

Approved By _____ Our Representative [Signature]

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Daystar Petroleum, Inc.

16 22s 33w Finney, Ks

PO Box 560
Eureka, Ks 67045

Graves #3

Job Ticket: 64371

DST#: 2

ATTN: Jon Christensen

Test Start: 2019.08.05 @ 12:54:00

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:31:00

Time Test Ended: 21:51:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 78

Interval: **4314.00 ft (KB) To 4353.00 ft (KB) (TVD)**

Total Depth: 4353.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2882.00 ft (KB)

2871.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 8522

Inside

Press@RunDepth: 68.63 psig @ 4315.00 ft (KB)

Start Date: 2019.08.05

End Date:

2019.08.05

Start Time: 12:54:00

End Time:

21:51:15

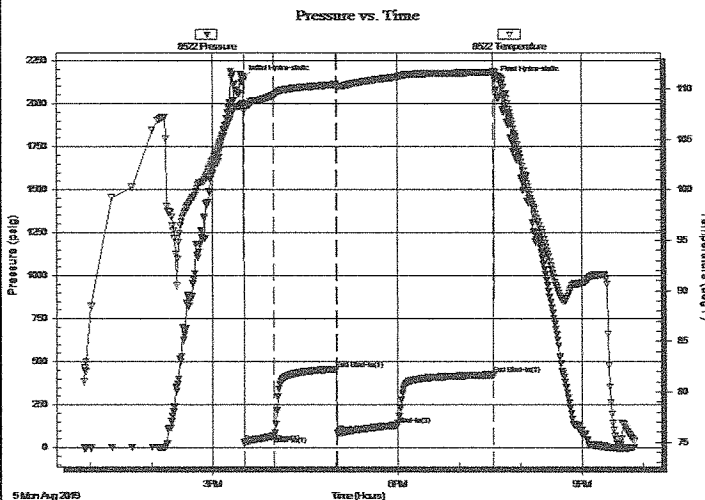
Capacity: 8000.00 psig

Last Calib.: 2019.08.05

Time On Btm: 2019.08.05 @ 15:30:30

Time Off Btm: 2019.08.05 @ 19:35:00

TEST COMMENT: 30- IF: 5 1/2" blow.
60- IS: No return.
60- FF: 4" blow.
90- FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2141.77	108.55	Initial Hydro-static
1	27.68	107.76	Open To Flow (1)
30	68.63	109.40	Shut-In(1)
90	457.23	110.46	End Shut-In(1)
91	87.14	110.20	Shut-In(2)
150	130.60	111.20	Shut-In(3)
243	425.02	111.70	End Shut-In(2)
245	2136.83	111.61	Final Hydro-static

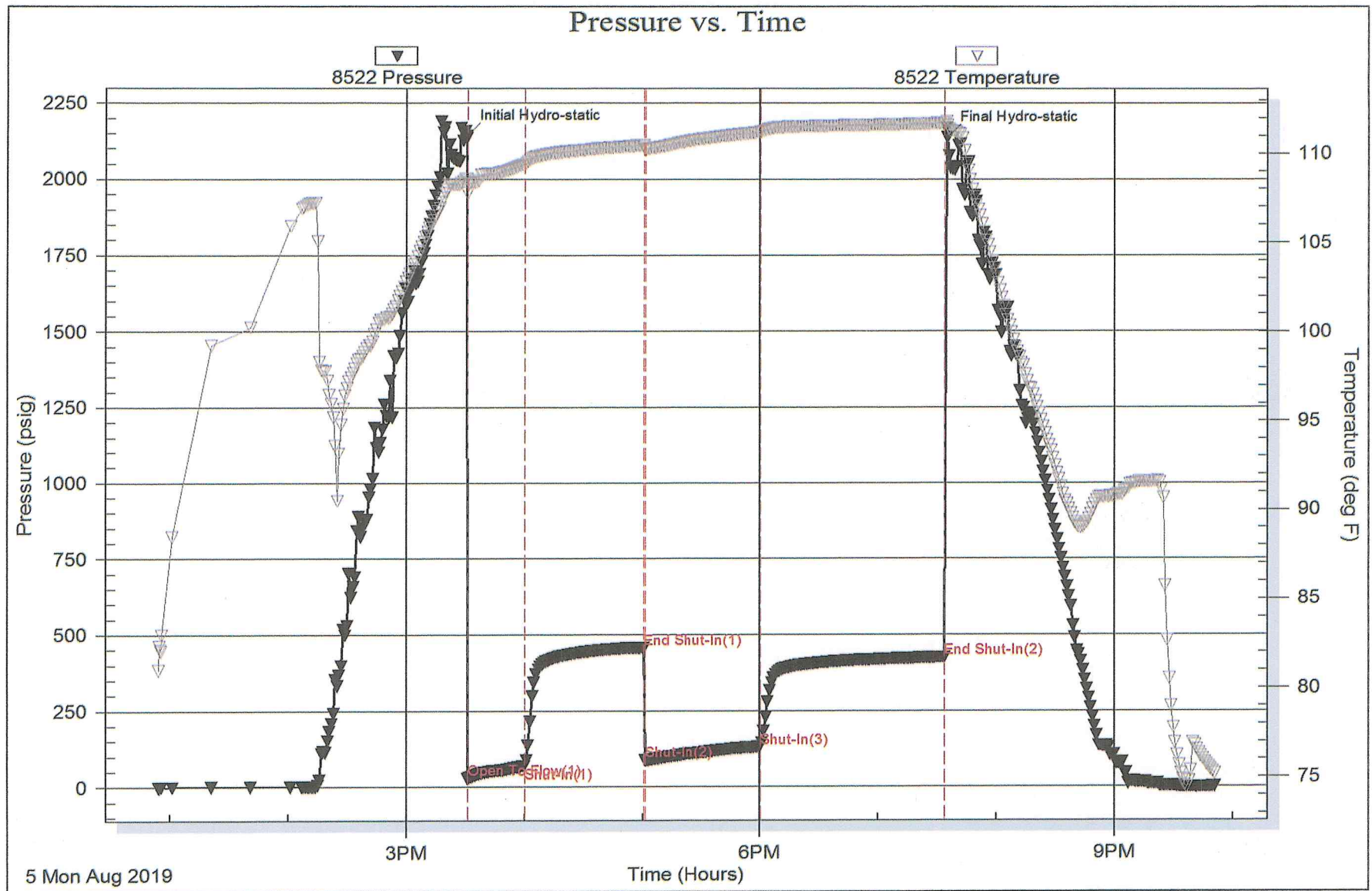
Recovery

Length (ft)	Description	Volume (bbl)
125.00	mcw 35m 65w (oil spots)	0.61
120.00	omcw 10o 40m 50w	0.59
5.00	oil 100 oil	0.07

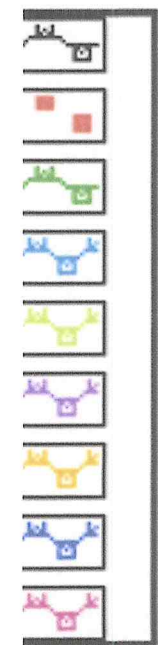
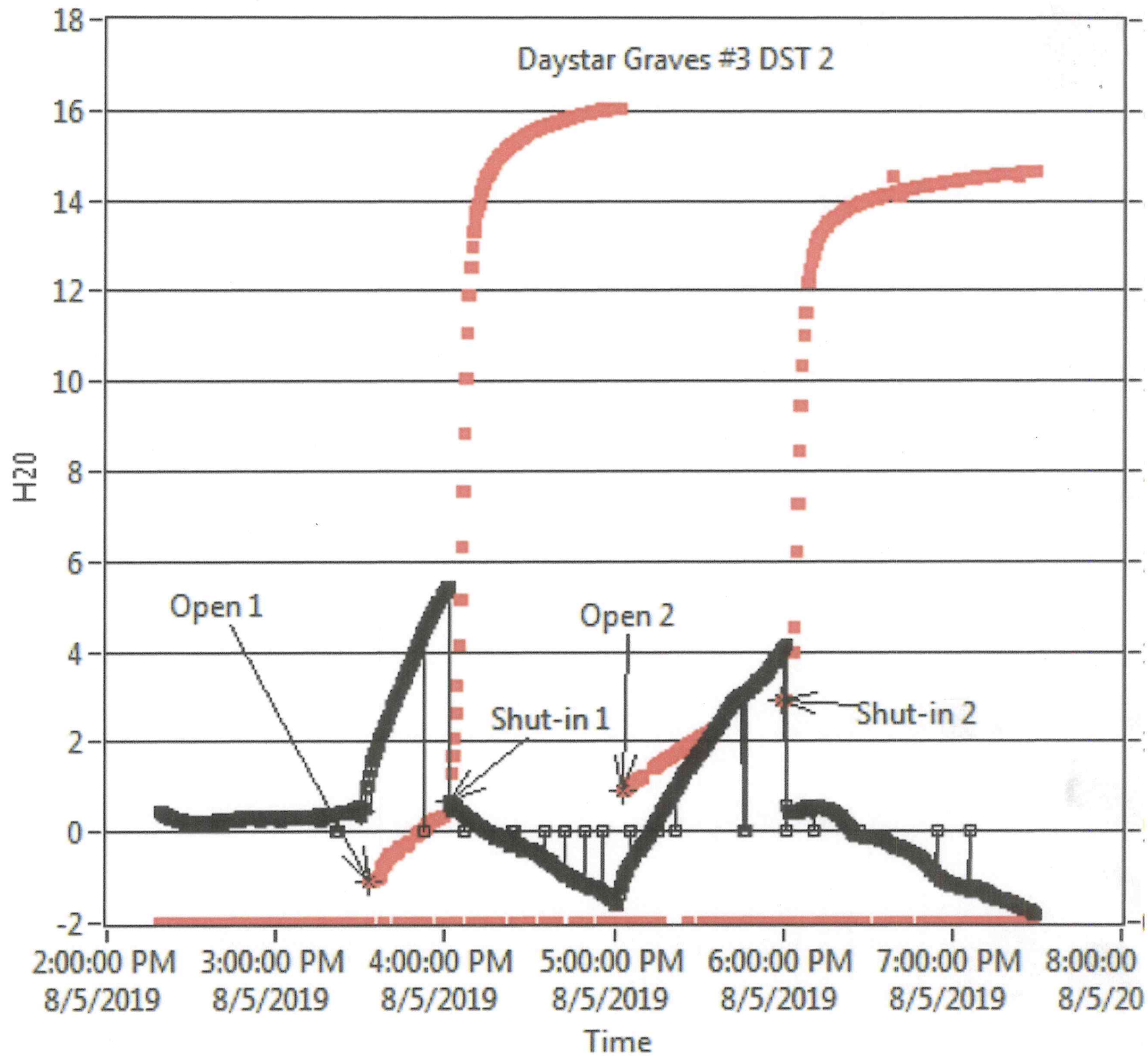
* Recovery from multiple tests

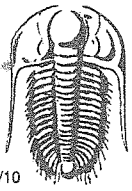
Gas Rates

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



Daystar Graves #3 DST 2





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 64371

Well Name & No. Graves #3 Test No. 2 Date 8/05/2019
 Company Daystar Petroleum, Inc Elevation 2882 KB 2871 GL
 Address PO Box 560 Eureka, KS 67045
 Co. Rep / Geo. Jon Christensen Rig Murfin 21
 Location: Sec. 16 Twp. 22s Rge. 33w Co. Finney State Ks

Interval Tested 4314 - 4353 Zone Tested Marmaton
 Anchor Length 39' Drill Pipe Run 4052 Mud Wt. 9.1
 Top Packer Depth 4309 Drill Collars Run 245 Vis 50
 Bottom Packer Depth 4314 Wt. Pipe Run Ø WL 9.2
 Total Depth 4353 Chlorides 3150 ppm System LCM 4#

Blow Description IF: 5 1/2" blow.
ISI: No return.
FF: 4" blow
FSI: No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>oil</u>	<u>100</u>			
<u>120</u>	<u>omcw</u>	<u>10</u>	<u>50</u>	<u>40</u>	
<u>125</u>	<u>mcw oil spots</u>		<u>65</u>	<u>35</u>	
Rec Total <u>250</u>	BHT <u>112</u>	Gravity <u>32</u>	API RW <u>@</u>	°F Chlorides <u>ppm</u>	

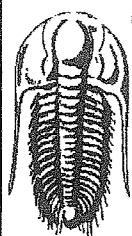
(A) Initial Hydrostatic 2142 Test _____ T-On Location 1200
 (B) First Initial Flow 28 Jars _____ T-Started 1254
 (C) First Final Flow 69 Safety Joint _____ T-Open 1500
 (D) Initial Shut-In 457 Circ Sub _____ T-Pulled 1930
 (E) Second Initial Flow 87 Hourly Standby _____ T-Out 2151
 (F) Second Final Flow 131 Mileage 60 RT _____
 (G) Final Shut-In 425 EM Sampler _____
 (H) Final Hydrostatic 2137 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total _____

Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Sub Total _____
 Total _____
 MP/DST Disc't _____

Initial Open 30
 Initial Shut-In 60
 Final Flow 60
 Final Shut-In 90

Approved By _____ Our Representative [Signature]

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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Daystar Petroleum, Inc.

16 22s 33w Finney, Ks

PO Box 560
Eureka, Ks 67045

Graves #3

Job Ticket: 64372

DST#: 3

ATTN: Jon Christensen

Test Start: 2019.08.07 @ 10:10:00

GENERAL INFORMATION:

Formation: **St Louis B**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:05:00

Time Test Ended: 15:50:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 78

Interval: **4658.00 ft (KB) To 4680.00 ft (KB) (TVD)**

Reference Elevations: 2882.00 ft (KB)

Total Depth: 4680.00 ft (KB) (TVD)

2871.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8522

Inside

Press@RunDepth: 27.48 psig @ 4659.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.08.07

End Date: 2019.08.07

Last Calib.: 2019.08.07

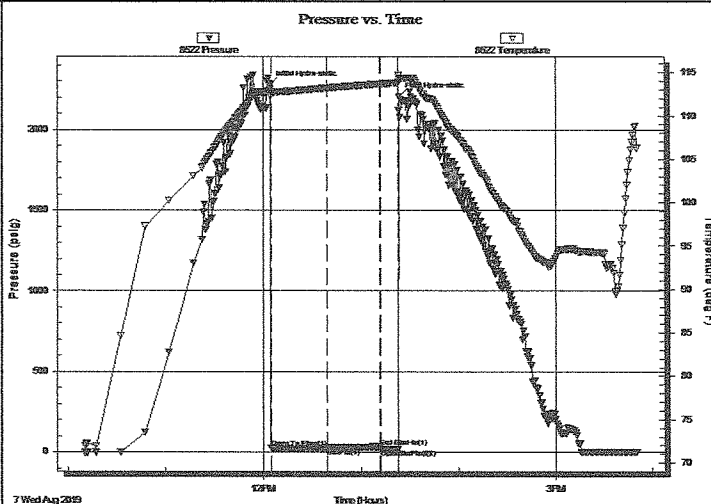
Start Time: 10:10:00

End Time: 15:50:30

Time On Btm: 2019.08.07 @ 12:04:15

Time Off Btm: 2019.08.07 @ 13:23:30

TEST COMMENT: 30- IF: Surface blow , Died @ 7 min.
30- ISI: No return.
10- FF No blow .
Pulled test



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2275.19	113.05	Initial Hydro-static
1	22.67	112.70	Open To Flow (1)
35	27.48	113.20	Shut-In(1)
67	34.15	113.69	End Shut-In(1)
68	19.90	113.67	Open To Flow (2)
79	19.37	113.82	Shut-In(2)
80	2206.20	114.27	Final Hydro-static

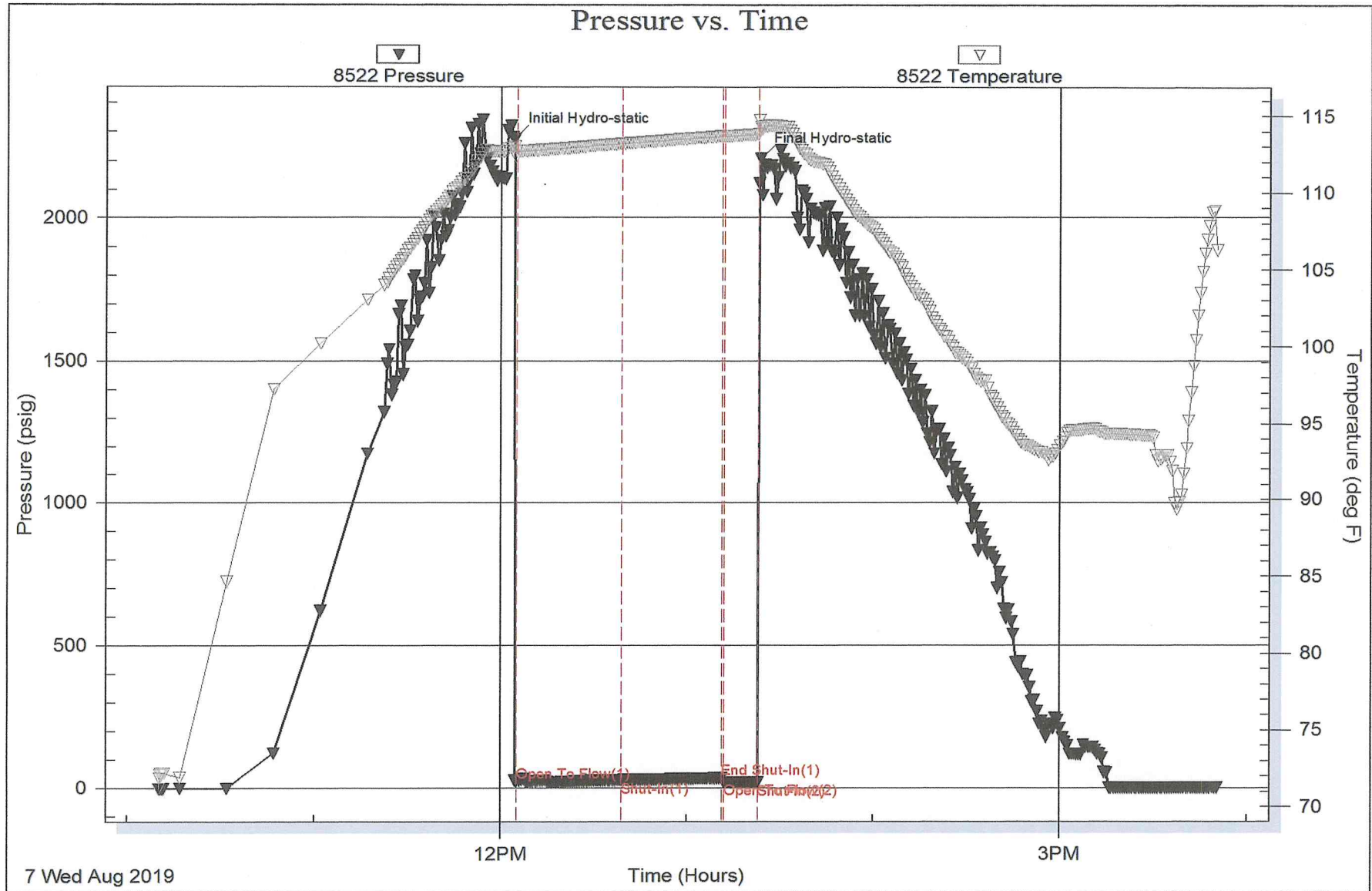
Recovery

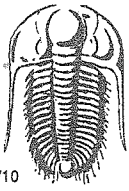
Length (ft)	Description	Volume (bbl)
4.00	mud 100m (oil spots)	0.02

* Recovery from multiple tests

Gas Rates

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





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 64372

Well Name & No. Graves #3 Test No. 3 Date 8/07/2019
 Company Daystar Petroleum, Inc Elevation 2882 KB 2871 GL
 Address PO Box 560 Eureka, KS 67045
 Co. Rep / Geo. Jon Christensen Rig Modin 21
 Location: Sec. 16 Twp. 22s Rge. 33w Co. Finney State Ks

Interval Tested 4658 - 4680 Zone Tested St Louis B
 Anchor Length 22 Drill Pipe Run 4400 Mud Wt. 9.2
 Top Packer Depth 4653 Drill Collars Run 245 Vis SS
 Bottom Packer Depth 4658 Wt. Pipe Run Ø WL 8.0
 Total Depth 4680 Chlorides 3500 ppm System LCM 4#

Blow Description TF: Surface blow dial @ 7m
TST: No return
FF: No blow
FSI: Pulled Test

Rec	Feet of	%gas	%oil	%water	%mud
<u>4</u>	<u>MOP</u>			<u>100</u>	
	<u>oil spots</u>				

Rec Total 4 BHT 114 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>2275</u>	<input checked="" type="checkbox"/> Test	T-On Location <u>0930</u>
(B) First Initial Flow <u>23</u>	<input checked="" type="checkbox"/> Jars	T-Started <u>1010</u>
(C) First Final Flow <u>27</u>	<input checked="" type="checkbox"/> Safety Joint	T-Open <u>1210</u>
(D) Initial Shut-In <u>34</u>	<input checked="" type="checkbox"/> Circ Sub <u>No</u>	T-Pulled <u>1320</u>
(E) Second Initial Flow <u>20</u>	<input checked="" type="checkbox"/> Hourly Standby	T-Out <u>1650</u>
(F) Second Final Flow <u>19</u>	<input checked="" type="checkbox"/> Mileage <u>60 RT</u>	Comments
(G) Final Shut-In <u>—</u>	<input checked="" type="checkbox"/> ^{EM} Sampler	
(H) Final Hydrostatic <u>2206</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Recorder	Sub Total
Final Flow <u>10</u>	<input type="checkbox"/> Day Standby	Total
Final Shut-In <u>Pull</u>	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total	

Approved By _____ Our Representative [Signature]

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Liberal Yard #1717 - Phone 620-624-2277 - 1700 S. Country Estates Road, Liberal KS 67901

PRESSURE PUMPING

Job Log

Customer:	Daystar Petroleum Inc	Cement Pump No.:	37223 19572 14HRS	Operator TRK No.:	78868	
Address:	P. O. Box 560	Ticket #:	1718 19544 L	Bulk TRK No.:	19827 37725 Samuel	19827 37725
City, State, Zip:	Eureka Ks 67045	Job Type:	Z-42 Cement Surface Casing			
Service District:	1718-Liberal KS	Well Type:	OIL			
Well Name and No.:	Graves # 3	Well Location:	16-22S-33W	County:	Finney	State: Kansas

Type of Cmt	Sacks	Additives	Truck Loaded On		
Class C Cement	250	2% Calcium Chloride, 1/4# Celloflake	19827 37725 Samuel	Front	Back
			19827 37725	Front	Back
				Front	Back

Lead/Tail:	Weight #1 Gal.	Cu/Ft/sk	Water Requirements	CU. FT.	Man Hours / Personnel	
Lead:	14.8	1.34	6.33	335	TT Man Hours:	46
Tail:					# of Men on Job:	4

Time (am/pm)	(BPM)	Volume (BBLs)	Pumps		Pressure(PSI)		Description of Operation and Materials
			T	C	Tubing	Casing	
21:00pm							Arrived at location
22:30pm							Spot trucks/Rig up
12:00am							Safety meeting
							Company man didn't want to run flapper and plug
12:36am	3.5	10				100	Pump 10bbls of fresh water spacer
12:41am	3	59				200	Pump 59bbls of cement from 250sks at 14.8lbs
1:11am							Start displacement of 23bbls with fresh water
1:18am	2	10				50	10bbls gone
1:20am	2	13				50	13bbls gone/Slow rate down
1:25am	2	23				50	23bbls gone/Shut down/Close valve
							Got 10bbls of cement to Surface
							Rig down
							Job completed
							Thanked company man and rig crew

Size Hole	12 1/4	Depth	395		TYPE	N/A	
Size & Wt. Csg.	8 5/8 244#	Depth	394	New / Used	Flapper	Depth	
Landing Psi	500+	Depth			Retainer	Depth	
Shoe Joint	20	Type			Perfs	CIBP	

Customer Signature: <i>A. Juan Brown</i>	Basic Representative:	Victor A. Corona
	Basic Signature:	<i>Victor A. Corona</i>
	Date of Service:	7/31/2019

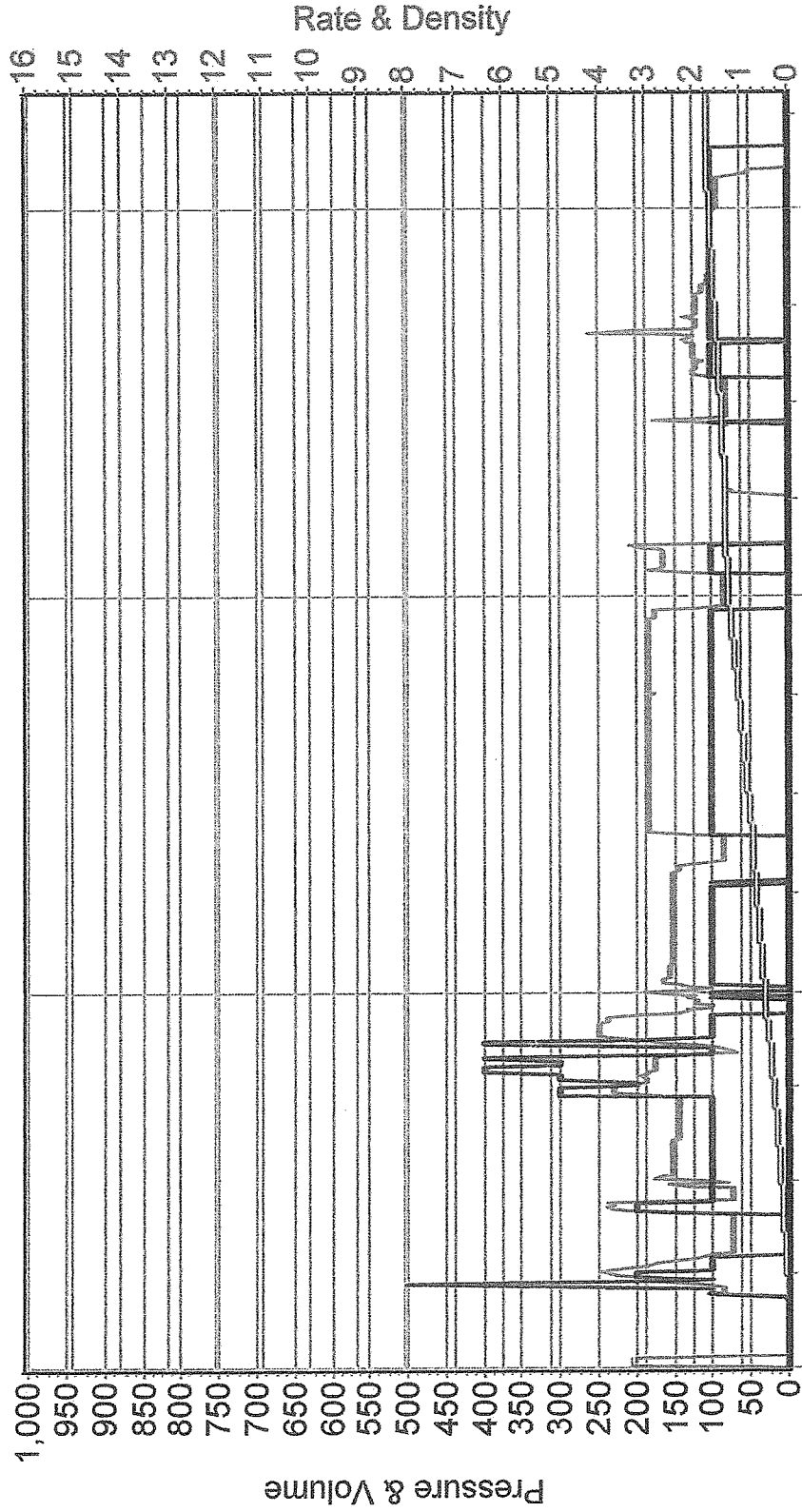
Daystar Petroleum Inc

Graves 3

8 5/8 Surface

7/31/2019

— Total Rate — Total Volume — Total Pressure — Stage Vol.



7/30/2019 11:14:30 PM 7/31/2019 12:50:18 AM 7/31/2019 1:07:52 AM 7/31/2019 1:24:56 AM



BASIC
ENERGY SERVICES

Liberal Yard #1717 - Phone 620-624-2277 - 1700 S. Country Estates Road, Liberal KS 67901

PRESSURE PUMPING

Job Log

Customer:	Daystar Petroleum Inc	Cement Pump No.:	38117, 19919 11Hrs.	Operator TRK No.:	96816	
Address:	P. O. Box 560	Ticket #:	1718 19599 L	Bulk TRK No.:	37712, 19883 Cory	19827, 37725 Sam
City, State, Zip:	Eureka Ks 67045	Job Type:	Z-42 Cement Production Casing			
Service District:	1718 - Liberal, Ks.	Well Type:	OIL			
Well Name and No.:	Graves # 3	Well Location:	16-22S-33W	County:	Finney	State: Kansas

Type of Cmt	Sacks	Additives	Truck Loaded On		
AA2 Cement	170	10% Gypsum, 10% Salt, 5# Gilsonite, .8% C-17, 1/4# Defoamer	37712, 19883 Cory	Front	Back
A-Serv Lite	50	1/4# Polyflake	19827, 37725 Sam	Front	Back
A-Serv Lite	350	1/4# Polyflake	19827, 37725 Sam	Front	Back
AA2 Cement	100	10% Gypsum, 10% Salt, 5# Gilsonite, .8% C-17, 1/4# Defoamer	37712, 19883 Cory	Front	Back

Lead/Tail:	Weight #1 Gal.	Cu/Ft/sk	Water Requirements	CU. FT.	Man Hours / Personnel	
Tail 1:	14.8	1.51	6.63	256.7	TT Man Hours:	68
Rat & Mouse:				50		
Lead:	12.3	2.03	11.35	710.5		
Tail 2:	14.8	1.51	6.63	151	# of Men on Job:	4

Time (am/pm)	(BPM)	Volume (BBLS)	Pumps		Pressure(PSI)		Description of Operation and Materials
			T	C	Tubing	Casing	
4:50 PM							ON LOCATION / RUN FLOAT EQUIPMENT
8:50 PM							SAFETY MEETING
21:00							RIG UP
22:10							CIRCULATE
12:00 AM							RIG TO PT
0:13							PRESSURE TEST TO 4100PSI
0:17	3.2	11.9				200	PUMP 500GAL MUD FLUSH
0:27	6.4	45.7 slurry				390	PUMP 170SX TAIL @ 14.8#
0:36							SHUTDOWN / DROP PLUG
0:47	7.2	10				180	DISPLACE
	7.2	20				180	
	7.2	30				180	
	7.2	40				160	
	7.2	50				160	
	7	60				160	
0:57		66					SWITCH TO MUD
	6.2	80				140	
	6	90				320	
	6	100				530	
1:05	5.8	103				600	SLOW RATE TO 2.0BPM @ 510PSI

Size Hole	7 7/8"	Depth			TYPE	Plug Container	
Size & Wt. Csg.	5 1/2" 15.5#	Depth	4801'	New / Used	Packer	Depth	
Landing Press 1	521.9psi	Landing Press 2	518.3psi		Retainer	Depth	
Shoe Jt.	42.09'	Type			Perfs	CIBP	

Customer Signature: <i>[Signature]</i>	Basic Representative:	Daniel Beck
	Basic Signature:	<i>[Signature]</i>
	Date of Service:	8/9/2019



Liberal Yard #1717 - Phone 620-624-2277 - 1700 S. Country Estates Road, Liberal KS 67901

PRESSURE PUMPING

Job Log

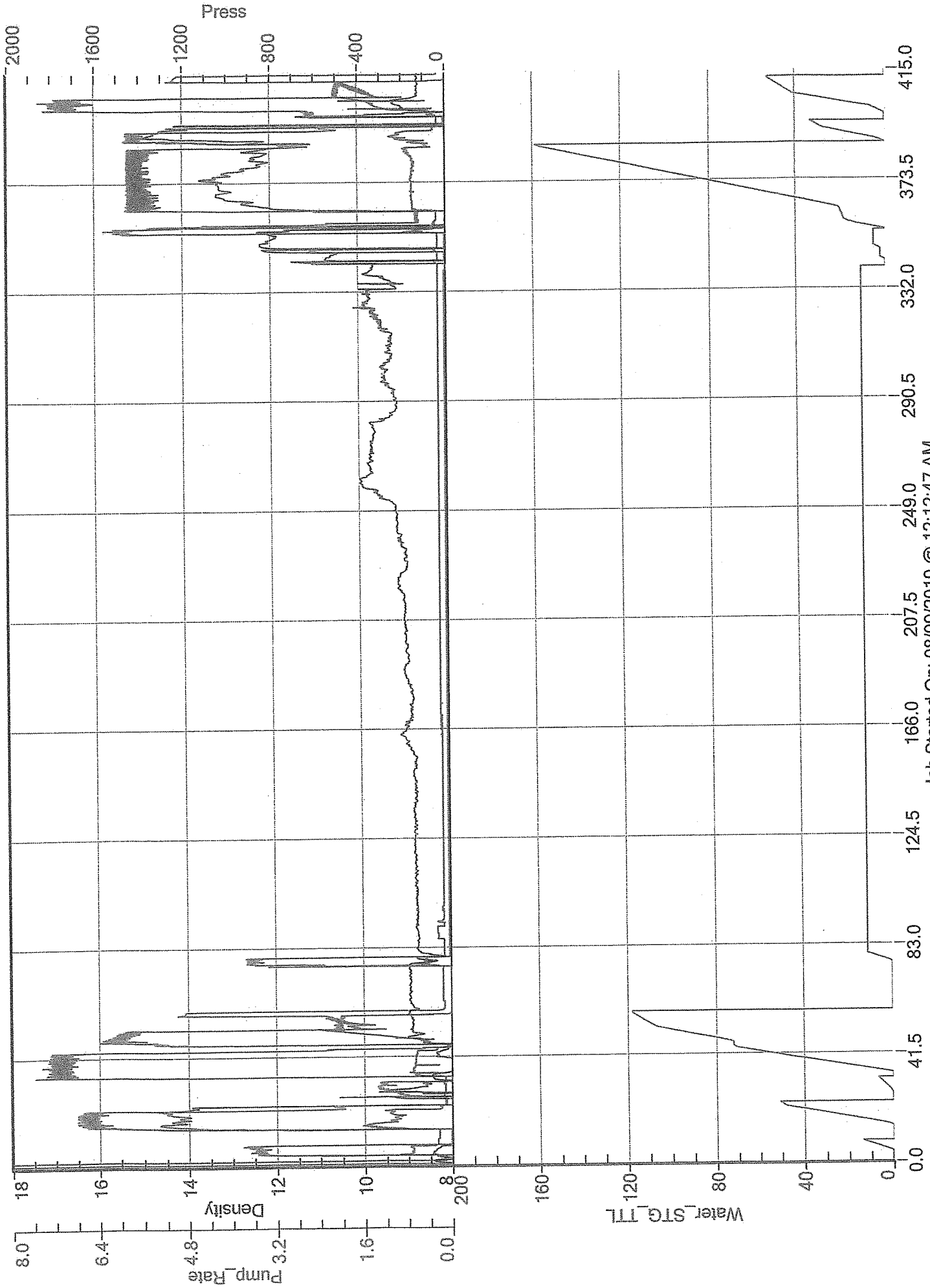
Customer:	Daystar Petroleum Inc	Cement Pump No.:	38117, 19919 11Hrs.	Operator TRK No.:	96816
Address:	P. O. Box 560	Ticket #:	1718 19599 L	Bulk TRK No.:	37712, 19883 Cory 19827, 37725 Sam
City, State, Zip:	Eureka Ks 67045	Job Type:	Z-42 Cement Production Casing		
Service District:	1718-Liberal	Well Type:	OIL		
Well Name and No.:	Graves # 3	Well Location:	16-22S-33W	County:	Finney
				State:	Kansas

Time (am/pm)	BPM	Volume (BBLs)	Pumps		Pressure(PSI)		Description of Operation and Materials
			T	C	Tubing	Casing	
	2	110				510	
1:10	2	113.2				560	LAND PLUG / PRESSURE UP TO 1240PSI
1:12							RELEASE BACK --- PLUG HELD
1:16		10					DROP OPENING TOOL / OPENED @ 870PSI
1:32							SHUTDOWN / CIRCULATE
5:55							CEMENT RAT & MOUSE W/ 50SX
6:08	6	126.5 slurry				130	PUMP LEAD 350SX @ 12.3#
6:41	5.8	26.8				200	PUMP TAIL 100SX @ 14.8#
6:49							SHUTDOWN / DROP CLOSING PLUG
6:52	7	10				310	DISPLACE
	7	20				330	
	7	30				430	
7:00 AM	7	36				480	SLOW RATE TO 2.0BPM @ 320PSI
	2	40				380	
7:06	2	46.8				500	LAND CLOSING PLUG / PRESSURE UP TO 1250PSI
7:08							RELEASE BACK --- PLUG HELD
							JOB COMPLETE

Size Hole	7 7/8"	Depth			TYPE	Plug Container	
Size & Wt. Csg.	5 1/2" 15.5#	Depth	4801'	New / Used	Packer	Depth	
Landing Press 1	521.9psi	Landing Press 2	518.3psi		Retainer	Depth	
Shoe Jt.	42.09'	Type			Perfs	CIBP	
Customer Signature:					Basic Representative:	Daniel Beck	
					Basic Signature:	<i>Daniel Beck</i>	
					Date of Service:	8/9/2019	

Daystar Petroleum

Graves3



Job Started On: 08/09/2019 @ 12:12:47 AM

LITHOLOGY STRIP LOG

WellSight Systems

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

Well Name: Graves #3
Location: 675' FNL & 1251' FEL, Sec. 16-T22S-R33W, Finney Co., KS.
Licence Number: 15-055-22521-00-00
Spud Date: 7/30/2019
Surface Coordinates: 675' FNL & 1251' FEL, Sec. 16-T22S-R33W
Region: Damme Field
Drilling Completed: 8/8/2019

Bottom Hole Same as above
Coordinates:
Ground Elevation (ft): 2871' K.B. Elevation (ft): 2882'
Logged Interval (ft): 3600' To: 4800' Total Depth (ft): 4800'
Formation: Mississippian at Total Depth
Type of Drilling Fluid: Freshwater/Gel to 3464'; Chemical Gel 3464' to TD.

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

OPERATOR

Company: Daystar Petroleum, Inc.
Address: P.O. Box 560
Eureka, KS. 67045-0560

GEOLOGIST

Name: Jon D. Christensen
Company: Consulting Petroleum Geologist
Address: 277 S. Maple Dunes Court
Wichita, KS. 67235-7500

Cores

None Taken

DSTs

DST #1(Kansas City "I" + "J" zones) 4032' - 4061' Test Times 30"-60"-60"-120" IFP Weak Blow built to 14", 0.75" Blowback on ISI; FFP Fair Blow built to 19.5", no Blowback on FSI; REC: 380' Gas in Pipe, 170' Gassy Oil(30%G, 70%O, 26 Deg. API), 120' GMCO(25%G, 55%O, 20%M), 120' GMCWO(20%G, 30%O, 15%W, 35%M) (CI 10,800 - MudCo, Mud 2,100); IFP 32-109#, ISIP 829#, FFP 143-178#, FSIP 829#, IHP 2010#, FHP 1963#, BHT 110 Deg. F.

DST #2(Altamont zone) 4314' - 4353' Test Times 30"-60"-60"-90" IFP Weak Blow built to 5.5", FFP Weak Blow built to 4", no Blowback on SI's; REC: 5' Clean Oil(32 Deg. API), 120' OCMW(10%O, 50%W, 40%M), 125' MSW w/oil spots(CI 23,600 - MudCo, Mud 3,150); IFP 28-69#, ISIP 457#, FFP 87-131#, FSIP 425#, IHP 2142#, FHP 2137#, BHT 112 Deg. F.(NOTE: Ran EM tool).

DST #3(Miss. St. Louis "B" zone) 4658' - 4680' Test Times 30"-30"-10"-OUT; IFP Weak Blow Died in 7", FFP No Blow, no Blowback on ISI; REC: 4' Drilling Mud with oil spots; IFP 23-27#, ISIP 34#, FFP 20-19#, FSIP NONE, IHP 2275#, FHP 2206#, BHT 114 Deg. F.(NOTE: Ran EM tool).

Comments

7/29/19 MIRU Murfin Drilling Rig #21; 7/30/19 Rig up and Spud well at 5:30 PM; 7/31/19 TD. 395' - WOC; 8/1/19 Drilling at 2055'; 8/2/19 TD. 3600' - Bit Trip; 8/3/19 Drilling at 3887'; 8/4/19 TD. 4061' - DST #1; 8/5/19 Drilling at 4328'; 8/6/19 Drilling at 4430'; 8/7/19 TD. 4680' - DST #3; 8/8/19 RTD. 4800' - TOH for Logs; 8/9/19 RTD. 4800', LTD. 4799' - Cementing upper Stage of Production Casing.

Set new 8 5/8"(23#) Surface Casing at 394' with 250 sacks of Cement(Basic Energy Services). Cement did Circulate. PD. at 1:30 AM. 7/31/19.

Set new 5 1/2"(15.5#) Production Casing at 4799' with 170 sacks of cement(Basic Energy Services) - Bottom Stage PD. at 1:16 AM. DV tool at 1992'. Cemented top stage with 350 sacks. Cement circulated to Surface. PD. at 7:08 AM. 8/9/18.


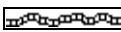
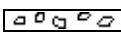
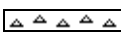
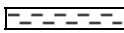







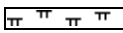
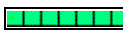
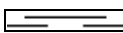
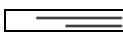
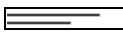



Surveys: 0.5 Deg. at 395'(Surface Casing); 0.7 Deg. at 1215'; 0.7 Deg. at 2006'; 0.8 Deg. at 2831'; 0.5 Deg. at 3600'(Bit Trip); 0.5 Deg. at 4061'(DST #1), 1.25 Deg. at 4353'(DST #2); 1.50 Deg. at 4680'(DST #3); 1.75 Deg. at 4800' RTD.

After review of the Pioneer Energy Services logs, DST and sample shows of commercial amounts of hydrocarbons, the operator elected to set new 5 1/2" Production Casing for completion in the K.C. "I" and "J" zones, and Altamont Lmst.








































































LOG TOPS: Base Anhydrite 1998(+884), Heebner Shale 3762(-880), Toronto 3777(-895), Lansing 3804(-922), Lansing "E" 3906(-1024), KC. "H" 4012(-1130), KC "I" 4038(-1156), KC "J" 4058(-1176), Stark Shale 4134(-1252), KC "K" 4141(-1259), KC "L" 4181(-1299), BKC 4267(-1385), Marmaton 4290(-1408), Altamont 4316(-1434), Pawnee 4370(-1488), Fort Scott 4394(-1512), Cherokee Shale 4406(-1524), Morrow Shale 4589(-1707), Mississippi 4598(-1716), St. Louis "B" 4657(-1775).

NOTE: Portions of this log were shifted 1' to 2' for correlation purposes with the Pioneer Energy Services logs.

ROCK TYPES

 Anhy  Bent  Brec  Cht	 Clyst  Coal  Congl  Dol	 Gyp  Igne  Lmst  Meta	 Mrlst  Salt  Shale  Shcol	 Shgy  Sltst  Ss  Till
---	---	---	---	---

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	FOSSIL  Algae  Amph  Belm  Bioclst  Brach  Bryozoa  Cephal  Coral  Crin  Echin  Fish  Foram  Fossil  Gastro  Oolite	 Ostra  Pelec  Pellet  Pisolite  Plant  Strom STRINGER  Anhy  Arg  Bent  Coal  Dol  Gyp  Ls  Mrst	 Sltstrg  Ssstrg TEXTURE  Boundst  Chalky  Cryxln  Earthy  Finexln  Grainst  Lithogr  Microxln  Mudst  Packst  Wackest
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OTHER SYMBOLS

- POROSITY**
 [E] Earthy
 [F] Fenest
 [X] Fracture
 [M] Inter
 [O] Moldic
 [P] Organic
 [P] Pinpoint

[V] Vuggy

- SORTING**
 [W] Well
 [M] Moderate
 [P] Poor

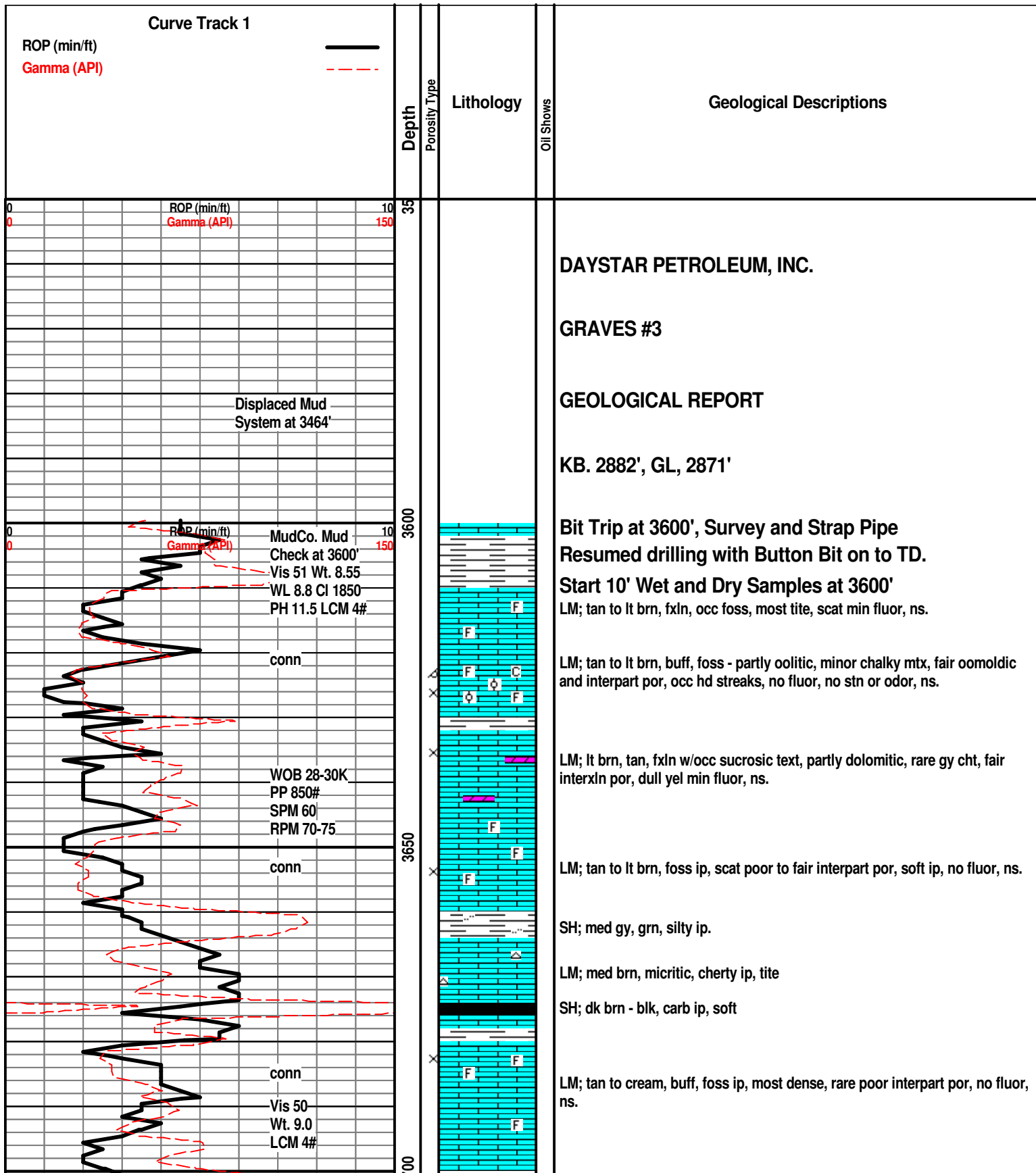
- ROUNDING**
 [R] Rounded
 [r] Subrnd
 [a] Subang
 [A] Angular

OIL SHOW
 [●] Even

- [●] Spotted
 [○] Ques
 [D] Dead

- INTERVAL**
 [■] Core
 [□] Dst

- EVENT**
 [▽] Rft
 [▶] Sidewall

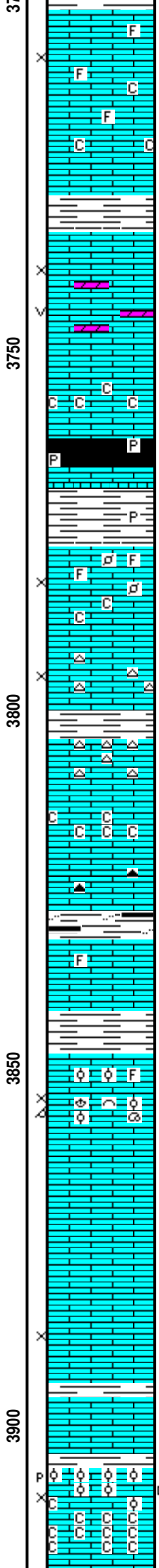
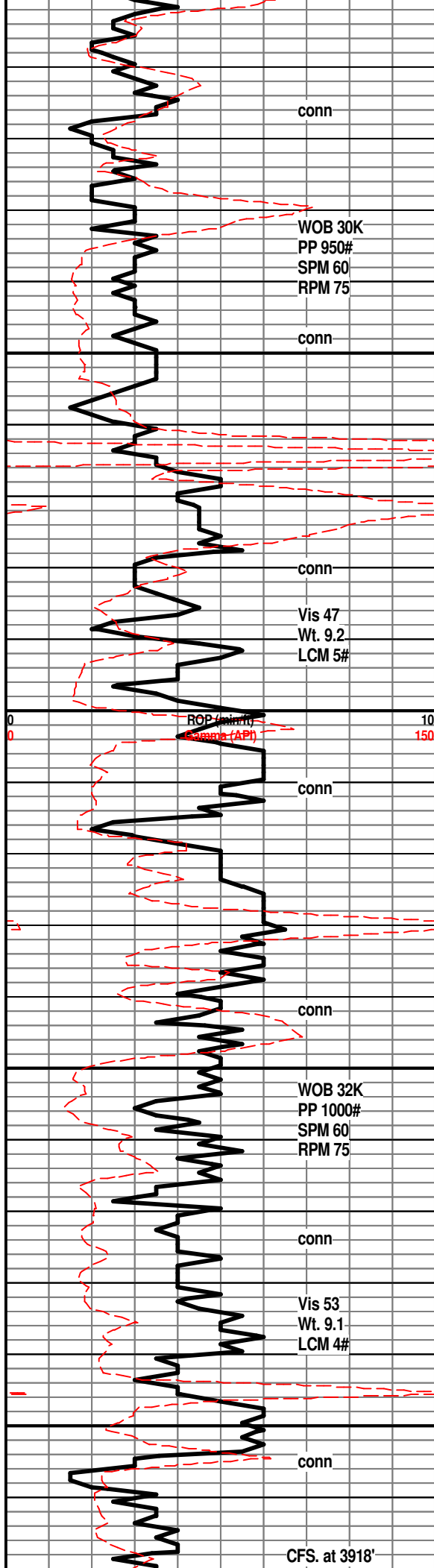


Displaced Mud System at 3464'

MudCo. Mud
 Check at 3600'
 Vis 51 Wt. 8.55
 WL 8.8 Cl 1850
 PH 11.5 LCM 4#

WOB 28-30K
 PP 850#
 SPM 60
 RPM 70-75

Vis 50
 Wt. 9.0
 LCM 4#



LM; tan to lt brn, foss ip, scat fxln lmst, poor to fair interxln/interpart por, minor soft chalky mtx, dull yel min fluor, ns.

SH; med gy, platy, smooth

LM; lt brn, fxln, some mottled text, occ off wh/lt gy cht, fair interxln por, no fluor, interbdd sucrosic dolomitic lmst, occ vug por, ns.

LM; wh, off wh, soft, v. chalky, ns.

HEEBNER SHALE 3762(-880) LOG

SH; blk, carb ip, occ pyr
LM; med brn, hd - blocky, tite

SH; gy grn, lt gy, platy, rare pyr

TORONTO 3777(-895) LOG

LM; tan to off wh, wh, foss at top, scat small pellets, bcm chalky, lt yel min fluor, no stn or odor, ns.

LM; off wh, cream, fxln, poor to fair interxln por, cherty ip, lt yel min fluor, ns.

LANSING 3804(-922) LOG

LM; tan to buff, fxln to micritic, most dense, abnt wh fresh cht, no fluor, no stn or odor, ns.

LM; off wh, buff, fxln, v. chalky - soft, dull yel min fluor, no stn or odor, ns.

LM; med brn, dense - micritic, occ dk brn to dk gy/smoky cht, no vis por, ns.

SH; dk gy, blk, some silty

LM; med brn, hd, blocky, tite

SH; med to dk gy, platy

LM; tan to cream, buff, foss - partly oolitic, small ooids w/occ foss hash, fair interpart/interoid por, dull yel min fluor, ns.

LM; lt gy, gy brn, hd - micritic, tite

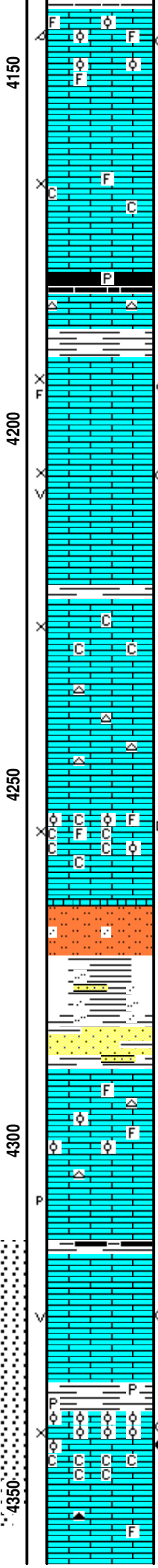
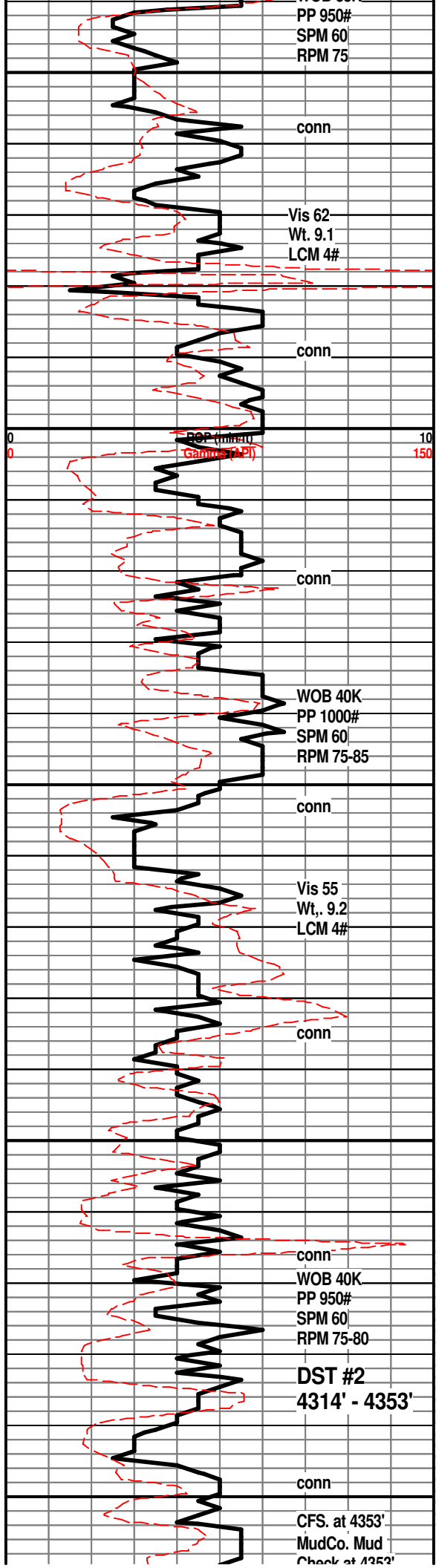
LM; off wh, tan - cream, fxln, foss ip, poor to fair interxln por, no fluor, no stn or odor, ns.

SH; med to dk gy, platy

LM; lt to med brn, hd, blocky, tite

LANSING "E" ZONE 3906(-1024) LOG

LM; lt to med brn, oolitic, fair interoid and p-p por, much dk dead oil stn, strong sulfur odor, v. dull yel flour, gd cut, bcm very chalky with depth



K.C. "K" ZONE 4141(-1259) LOG

LM; lt brn, foss to oolitic, poor to fair moldic por, lt yel fluor, spotted med to dk brn oil stn, VSSFO, strong sulfur odor, gd cut, dull to lt yel fluor

LM; tan to lt brn, foss ip, poor to fair interpart por, minor chalky mtx, no fluor, no stn or odor, ns.

K.C. "L" ZONE 4181(-1299) LOG

LM; med brn, blocky, scat gy cht, tite

LM; lt brn, fxln, poor to fair interxln por, trc frags, few pcs w/dk brn spotted stn, some edge stn, faint odor, scat med yel fluor, looks tite

LM; med brn, foss ip, rare oolites, poor to fair interpart por, rare vug por, rare med brn spotted oil stn, no F.O., faint to fair odor, poor cut

LM; tan to lt brn, fxln, occ soft - chalky mtx, occ poor interxln por, no stn or odor, ns.

LM; med to dk brn, hd, blocky, scat gy to brn cht, tite

LM; off wh, cream - buff, foss w/rare oolites, much soft chalk and chalky mtx, fair interpart por, lt yel min fluor, trc dead blk stn/some gilsonite, no odor

BASE KANSAS CITY 4267(-1385) LOG

SLTST; lt gy, gritty, sandy ip.

SH; med gy to varic, platy, silty to occ sandy, firm, interbdd fgr qtz occ argil ss

MARMATON 4290(-1408) LOG

LM; off wh, tan - buff, foss ip, most well cem oolites and foss mat, no vis por, rare wh cht, no fluor, no stn or odor, ns.

LM; tan to lt brn, most dense, blocky, trc poor p-p por, lt yel fluor, no stn or odor, ns.

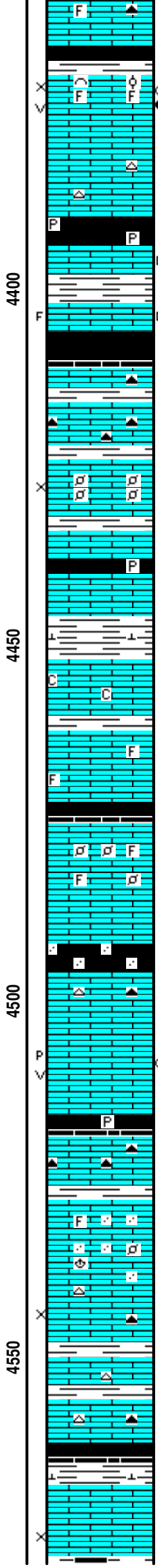
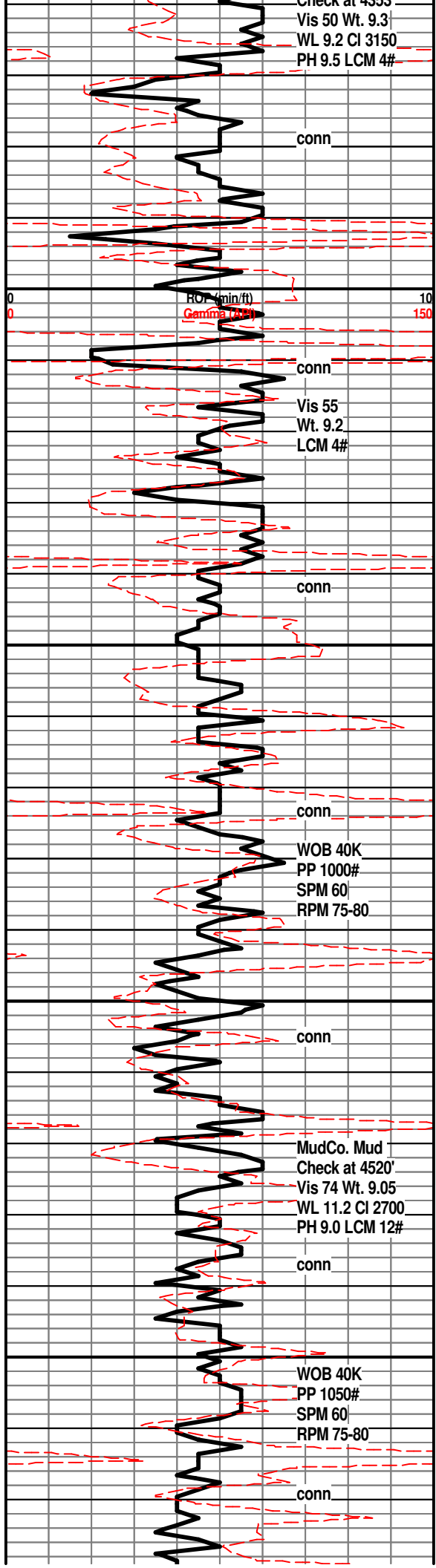
ALTAMONT 4316(-1434) LOG

LM; lt to med brn, foss ip, scat small vug por, hvy dk brn spotted stn, lt yel fluor, faint odor, no F.O., poor cut

SH; med gy, platy, pyr ip.

LM; lt brn, oolitic, med to lrg oolites, some very compact - well cem, occ oolite clusters w/fair interoid por, fair to gd spotted to even oil stn in por, fair odor, gd cut, SSFO, bcm very chalky - soft

DST #2: ALTAMONT ZONE 4314' - 4353'



LM; med to dk gy brn, foss ip, some argil lmst, rare dk gy cht, tite

SH; blk, v. dk gy, platy

PAWNEE 4370(-1488) LOG

LM; off wh - wh, foss, fair interpart w/occ vug por, med brn spotted/rarely even oil stn, fair odor, most w/brite yel fluor, fair to gd cut, VSSFO

LM; off wh, buff, hd - blocky, scat wh to gy cht, tite

SH; blk, carb ip, scat pyr, faint gas odor

FORT SCOTT 4394(-1512) LOG

LM; med to dk brn, dense - blocky, scat blk/dk brn heavy residual oil stn/gilsonite, no live shows, no vis por, no fluor, trc frags

CHEROKEE SHALE 4406(-1524) LOG

SH; blk, carb, faint gas odor

LM; med brn, hd - micritic, scat dk gy to blk cht, no vis por, ns.

LM; off wh, buff, foss w/rare small pellets, poor interpart por, most well cem, lt yel min fluor, no stn or odor, ns.

SH; dk gy - blk, pyr ip, platy

SH; dk gy, limy ip, platy

LM; off wh, tan, rare wh, fxln, scat soft chalky mtx, no vis por, ns.

LM; tan to lt brn, foss - well cem, occ cse xln lmst, no fluor, ns.

SH; dk gy - blk, platy

LM; med gy brn, foss - finely pelletal, most well cem, hd, no vis por, no fluor, ns.

SH; dk gy- blk, platy, some sandy text

LM; med brn, cse xln, cherty w/amber to translucent cht, tite

LM; med brn, f to med xln, fair p-p w/occ vug por, spotted med brn oil stn, faint odor, med yel fluor, gd cut, no F.O.

SH; blk, platy, occ pyr

LM; med brn, micritic, scat blk cht, tite

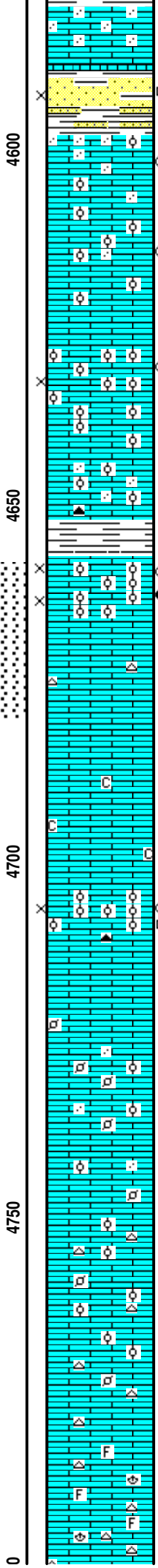
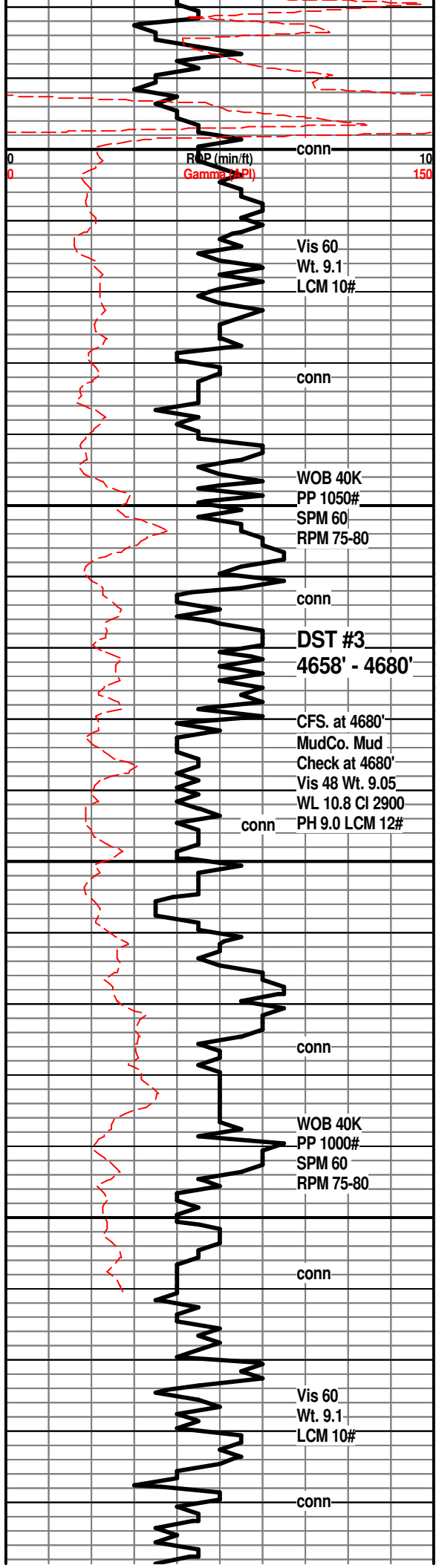
LM; tan to cream, buff, foss ip, some gritty to sandy text, most tite, dull yel min fluor, no stn or odor, ns.

LM; lt to med brn, med xln ip, poor vis interxln por, scat dk gy to occ amber cht, ns.

LM; lt to med brn, dense - micritic, occ cherty, tite

SH; dk gy, some blk, lmy ip.

LM; med to dk gy, f to med xln, trc poor interxln por, spotty lt yel fluor, no vis stn, no odor, looks tite



LM; med to dk gy, gy brn, sandy ip, some gritty text, no vis stn, ns.

MORROW SHALE 4589(-1707) LOG

SH; dk gy, platy, silty to sandy
SS; clr to lt brn, f gr qtz, shaly, poor integran por, rare med brn hvy residual oil stn, lt yel fluor, no odor

MISSISSIPPI 4598(-1716) LOG

LM; wh, off wh, sandy ip, reworked section, minor chalky mtz, rare med to dk brn spotted oil stn, scat lt yel fluor, v. faint odor, interbdd oolitic lmst, no vis por, looks tite

LM; off wh, oolitic ip, most tite, spotted med brn stn, faint odor, dull yel fluor, poor to fair cut in some, much wh dense lmst, tite

LM; off wh, finely oolitic, much soft chalky mtz, fair amount of med brn oil stn, med yel fluor, fair cut, faint odor, no F.O., poor to occ fair interoid por

LM: off wh, wh, finely oolitic/pelletal, rare f gr qtz in dense mtz, trc org to amber cht, tite

SH; med gy, trc grn, smooth

ST. LOUIS "B" ZONE 4657(-1775) LOG

LM; off wh, oolitic, most small oolites, poor to fair interpart/interoid por, spotted to rarely even med brn oil stn, med yel fluor, no F.O., gd cut, v faint odor, some tite

LM; med brn, hd, micritic, blocky, rare gy cht, tite

DST #3: ST. LOUIS "B" 4658' - 4680'

LM; tan to buff, most dense - micritic, rare chalky mtz, no vis por, no stn or odor, ns.

LM; off wh, oolitic, small to rare med size oolites, most well cem, occ poor interpart/interoid por, few clusters w/dk brn oil stn, some gilsonite, lt yel fluor, no odor, fair cut, occ amber cht

LM: tan to lt brn, med xln ip, most dense, interbdd finely pelletal to oolitic lmst, rare f gr qtz, no vis por, no flour, ns.

LM; lt brn, finely pelletal to oolitic, scat tan to gy cht, no flour, no stn or odor, ns.

LM; med brn, f to med xln, foss ip, occ cherty, no vis por, no flour, no stn or odor, ns.

