

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) (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	Murfin Drilling Co., Inc.
Well Name	PLUMMER 1-25
Doc ID	1426853

All Electric Logs Run

DIL
DUCP
MEL
BHCS

TREATMENT REPORT



HURRICANE SERVICES INC

Customer: Murfin Drilling INC	Date: 10/3/2018	Ticket #: ICT 1443
Field Rep: Ray		
Address: 250 N Water STE		
City, State: Wichita, Ks		
County, Zip: 67202		

Field Order No.:	Open Hole:	7 7/8
Well Name: Plummer 1-25	Casing Depth:	
Location: Stanton Ks	Casing Size:	
Formation:	Drill pipe depth:	1800
Type of Service: Cement	Drill pipe size:	4 1/2
Well Type: Oil	Liner Depth:	
Age of Well: New	Liner Size:	
Packer Type:	Liner Top:	
Packer Depth:	Liner Bottom:	
Treatment Via: Cement	Total Depth:	5795

Perf Depths (ft)	Perfs
Total Perfs	0

TIME	INJECTION RATE		PRESSURE		REMARKS	PROP (lbs)	HCL (gls)	FLUID (bbbls)
	FLUID	N2/CO2	STP	ANNULUS				
7:40 AM					Arrive on location			
7:45 AM					Safety meeting			
7:50 PM					Rig up			
10:40 AM					Pump water ahead			
10:45 AM	4.0		250.0		Mix 50 sks of 60/40 pox mix 4% gel .25 pheno 1.42 yield @ 1800			5.00
10:50 AM	3.5		200.0		Displace			12.64
11:00 AM					Rig pulls to 750			25.60
11:35 AM	4.5		250.0		Mix 50 sks of 60/40 pox mix 4% gel .25 flo 1.42 yield @ 750			12.64
11:45 AM	4.0		200.0		Displace			10.67
11:50 AM					Rig pulls to 60			
12:55 PM	4.0		240.0		Mix 20 sks, Rathole 30 sks, Mousehole 20 sks			17.70
1:15 PM					Wash up			
1:25 PM					Rig down			
1:35 PM					Depart			
TOTAL:								84.25

Max Fl. Rate	Avg Fl. Rate	Max PSI	Avg PSI
4.5	4.0	250.0	220.0

PRODUCTS USED

Pumped 170 sacks 60/40 poz with 4% gel, 1/4#/sk pheno

Treater: Travis Williams

Customer: [Signature]

MDCI
 Plummer #1-25
 330' FSL 2310' FEL
 Sec. 25-T28S-R41W
 3343' KB

Formation	Sample Top	Datum	Ref	Log tops	Datum	Ref
B/Anhydrite	1727	+1616		1722	+1621	
Oakley				4628	-1285	+1
Morrow	5076	-1733	+21	5106	-1763	-9
Morrow Lm	5395	-2052	-20	5394	-2051	-19
Mississippian	5523	-2180	+52	5530	-2187	+45
St Louis	5628	-2285	+29	5610	-2267	+47
RTD	5795					
LTD				5795		

OPERATOR

Company: Murfin Drilling Company
 Address: 250 N. Water
 Suite 300
 Wichita, KS 67202
 Contact Geologist: Shauna Gunzelman
 Contact Phone Nbr: 316-267-3241
 Well Name: Plummer #1-25
 Location: Sec. 25 - T28S - R41W
 API: 15-187-21341-0000
 Pool:
 State: Kansas

Field: Dietterich
 Country: USA



Scale 1:240 Imperial

Well Name: Plummer #1-25
 Surface Location: Sec. 25 - T28S - R41W
 Bottom Location:
 API: 15-187-21341-0000
 License Number: 30606
 Spud Date: 9/22/2018 Time: 6:00 AM
 Region: Stanton County Time: 6:15 AM
 Drilling Completed: 10/2/2018
 Surface Coordinates: 2100' FSL & 1925' FEL
 Bottom Hole Coordinates:
 Ground Elevation: 3332.00ft
 K.B. Elevation: 3343.00ft
 Logged Interval: 4530.00ft To: 5795.00ft
 Total Depth: 5795.00ft
 Formation: Mississippian
 Drilling Fluid Type: Chemical/Fresh Water Gel

SURFACE CO-ORDINATES

Well Type: Vertical
 Longitude: 101.750224831
 Latitude: 37.583254404
 N/S Co-ord: 2100' FSL
 E/W Co-ord: 1925' FEL

LOGGED BY

Keith Reavis
Consulting Geologist

Company: Keith Reavis, Inc.
 Address: 3420 22nd Street
 Great Bend, KS 67530

Phone Nbr: 620-617-4091
 Logged By: KLG #136

Name: Keith Reavis

CONTRACTOR

Contractor: Murfin Drilling Company
 Rig #: 22
 Rig Type: mud rotary
 Spud Date: 9/22/2018 Time: 6:00 AM
 TD Date: 10/2/2018 Time: 6:15 AM
 Rig Release: Time:

ELEVATIONS

K.B. Elevation: 3343.00ft
K.B. to Ground: 11.00ft

Ground Elevation: 3332.00ft

NOTES

Due to negative result of drill stem testing and electrical log evaluation, it was determined by the operator that the Plummer #1-25 be plugged and abandoned as a dry test.

A Bloodhound gas detection system operated by Bluestem Labs was employed during the drilling of this well. ROP and gas data were imported from the Bloodhound system. Gamma ray and caliper curves were imported from the electrical log suite.

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

Respectfully submitted,
Keith Reavis

Murfin Drilling Company

daily drilling report

DATE	7:00 AM DEPTH	REMARKS
09/27/2018		mob to location, on location 2300 hrs, 4008 ft, wiper trip
09/28/2018	4099	resume drilling after wiper trip, drilling ahead, LKC, Marmaton, Ft. Scott
09/29/2018	4809	drilling ahead, Celia, Atokan, Morrow
09/30/2018	5385	drilling ahead, Morrow, wiper trip @ 5385', 36 stands, work on pumps ctch, resume drilling, drill Keyes, TOH, conduct DST #1
10/01/2018	5503	complete DST #1, lay down tools, TIH w/bit, drill ahead, Morrow/Keyes, Mississippian
10/02/2018	5795	rathole ahead to TD, 5795 @ 0615 hrs, cfs, short trip, ctch, TOH for logs conduct and complete logging operations, back in hole with test tools for straddle test, lower Keyes, DST #2 decided to plug base on test, geologist off loc 2300 hrs


Murfin Drilling Company

well comparison sheet

DRILLING WELL					COMPARISON WELL			
Murfin - Plummer #1-25 2100' FSL & 1925' FEL Sec 25 - T28S - R41W 3343 KB					Stelbar - Roberts #1-25 830' FSL & 1650' FEL Sec 25 - T28S - R41W 3342 KB			
					Structural Relationship			
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log
Heebner			3720	-377	3728	-386		9
Lansing			3777	-434	3787	-445		11
Lansing B	3832	-489	3822	-479	3828	-486	-3	7
Lansing G	3989	-646	3980	-637	3982	-640	-6	3
Stark Shale	4208	-865	4204	-861	4210	-868	3	7
Pleasanton	4354	-1011	4351	-1008	4356	-1014	3	6
Marmaton	4384	-1041	4382	-1039	4386	-1044	3	5
Ft. Scott	4534	-1191	4530	-1187	4528	-1186	-5	-1
Exoello	4569	-1226	4568	-1225	4570	-1228	2	3
Celia	4636	-1293	4633	-1290	4631	-1289	-4	-1
Atoka	4804	-1461	4814	-1471	4804	-1462	1	-9

Morrow	5107	-1764	5106	-1763	5096	-1754	-10	-9
M. Morrow Lm	5395	-2052	5394	-2051	5374	-2032	-20	-19
Keyes Sand	5484	-2141	5470	-2127	5430	-2088	-53	-39
Mississippian	5523	-2180	5530	-2187	5574	-2232	52	45
St. Louis B	5628	-2285	5610	-2267	5656	-2314	29	47
Total Depth	5795	-2452	5795	-2452	5793	-2451	-1	-1

Drill Stem Test #1

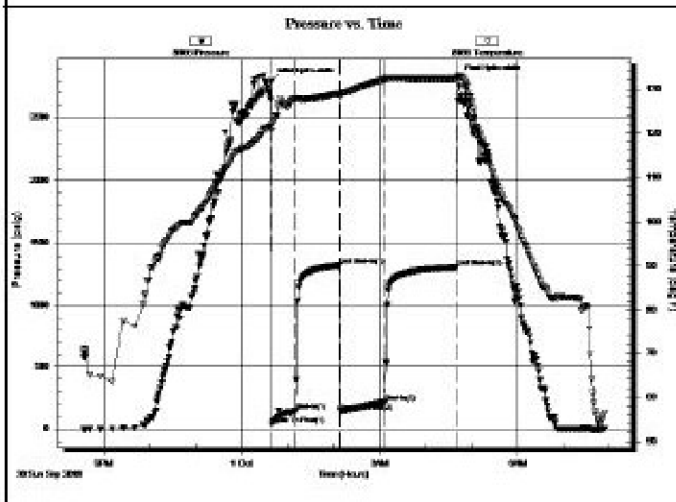
 TRILOBITE TESTING, INC.	DRILL STEM TEST REPORT	
	Murfin Drilling Co 250 N Water Ste 300 Wichita, Ks 67202 ATTN: Keith Reavis	25-28s-41w Stanton, KS Plummer 1-25 Job Ticket: 64256 DST#: 1 Test Start: 2018.09.30 @ 20:33:38

GENERAL INFORMATION:

Formation: Morrow / Keyes	Test Type: Conventional Bottom Hole (htia)
Deviated: No Whipstock: ft (KB)	Tester: Brandon Turley
Time Tool Opened: 00:39:08	Unit No: 79
Time Test Ended: 07:53:08	Reference Elevations: 3342.00 ft (KB)
Interval: 5415.00 ft (KB) To 5503.00 ft (KB) (TVD)	3332.00 ft (CF)
Total Depth: 5503.00 ft (KB) (TVD)	KB to GR/CF: 10.00 ft
Hole Diameter: 7.88 inches - hole Condition: Good	

Serial #: 8166 Outside	Capacity: 8000.00 psig
Press@RunDepth: 215.84 psig @ 5420.00 ft (KB)	Last Calib.: 2018.10.01
Start Date: 2018.09.30 End Date: 2018.10.01	Time On Btm: 2018.10.01 @ 00:38:38
Start Time: 20:33:43 End Time: 07:53:08	Time Off Btm: 2018.10.01 @ 04:43:08

TEST COMMENT: IF: 1/4 b/w built to 8 1/2.
 IS: No return.
 FF: BOB in 50 min. 11"
 FS: No return.



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2794.96	121.70	Initial Hydro-static
1	39.67	120.55	Open To Fbw(1)
31	146.95	127.80	Shut-In(1)
89	1322.86	128.83	End Shut-In(1)
90	144.67	128.66	Open To Fbw(2)
148	215.84	132.12	Shut-In(2)
242	1309.66	132.33	End Shut-In(2)
245	2822.23	132.75	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
189.00	mcw 90%w 10%m	1.04
126.00	w cm 30%w 70%m	1.77
126.00	mud 100%m	1.77

Gas Rates			
	Choke (Inches)	Pressure (psig)	Gas Rate (Mcf/D)

Drill Stem Test #2



TRIOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co
 250 N Water Ste 300
 Wichita, Ks 67202
 ATTN: Keith Reavis

25-28s-41w Stanton, KS
Plummer 1-25
 Job Ticket: 64256 **DST#: 2**
 Test Start: 2018.10.02 @ 17:38:01

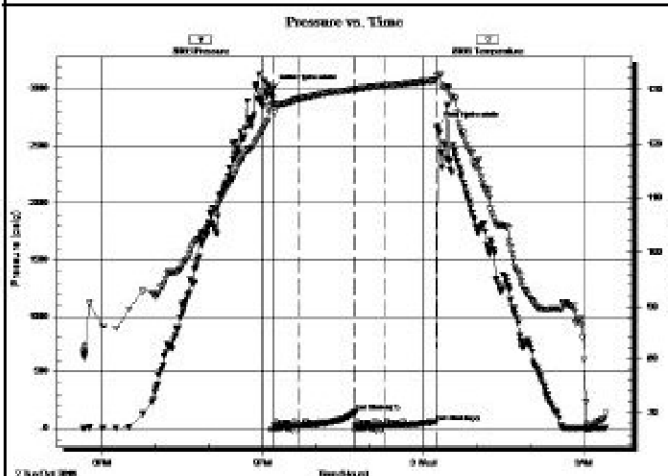
GENERAL INFORMATION:

Formation: **Lower Morrow**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 21:12:31
 Tester: Brandon Turley
 Time Test Ended: 03:24:01
 Unit No: 79
 Interval: **5509.00 ft (KB) To 5530.00 ft (KB) (TVD)**
 Reference Elevations: 3342.00 ft (KB)
 Total Depth: 5795.00 ft (KB) (TVD)
 3332.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good
 KB to GR/CF: 10.00 ft

Serial #: 8166 Outside
 Press@RunDepth: 24.38 psig @ 5514.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2018.10.02 End Date: 2018.10.03 Last Calib.: 2018.10.03
 Start Time: 17:38:06 End Time: 03:24:01 Time On Btm: 2018.10.02 @ 21:12:01
 Time Off Btm: 2018.10.03 @ 00:15:31

TEST COMMENT: IF: 1/4 blow died in 30 min.
 IS: No return.
 FF: No blow.
 FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	3008.09	127.45	Initial Hydro-static
1	26.62	125.46	Open To Flow (1)
30	26.60	128.27	Shut-In(1)
91	143.56	130.05	End Shut-In(1)
92	25.72	130.01	Open To Flow (2)
124	24.38	130.69	Shut-In(2)
181	60.02	131.64	End Shut-In(2)
184	2676.32	132.63	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud 100%w	0.02

* Recovery from multiple tests

Gas Rates

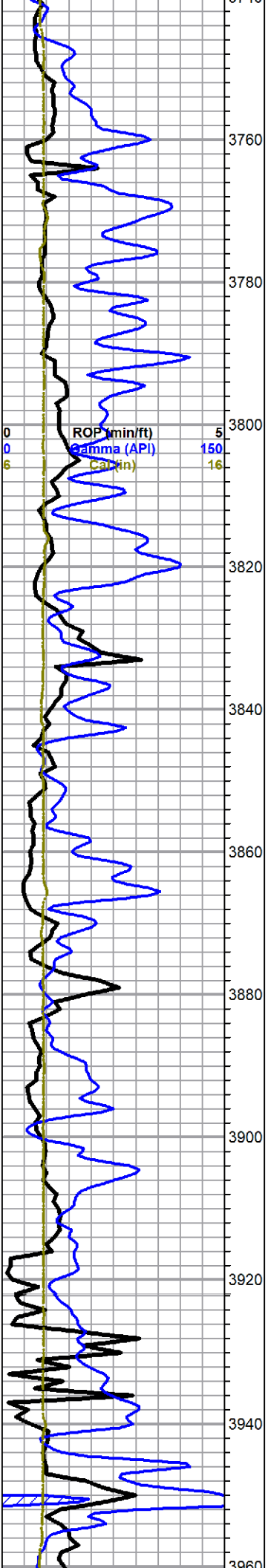
	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/D)

ROCK TYPES

Dolprim	Lmst fw<7	shale, grn	Carbon Sh	Ss
sdy lms	Lmst fw7>	shale, gry	Shcol	

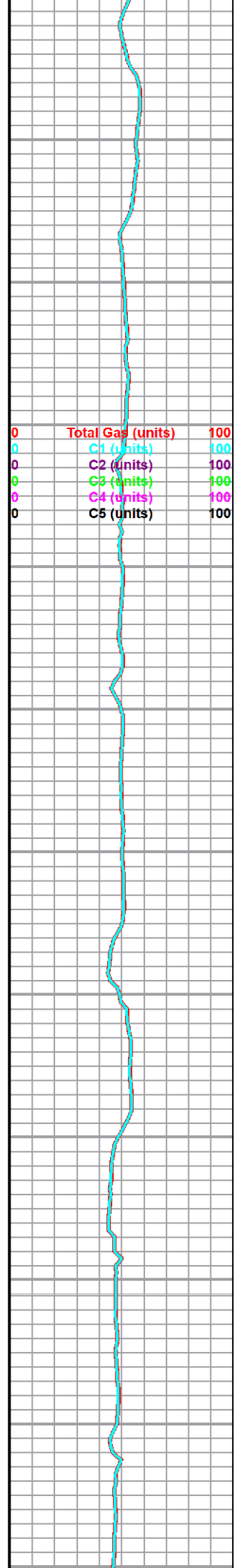
ACCESSORIES

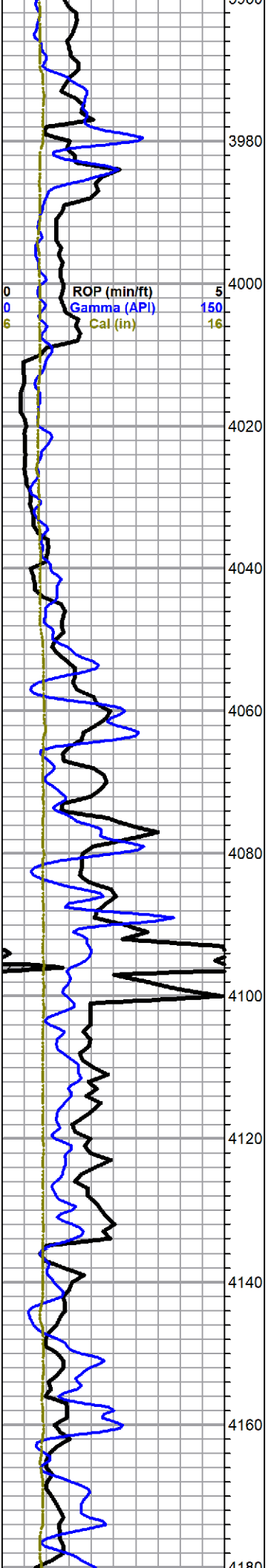
MINERAL	FOSSIL	STRINGER	TEXTURE
— Argillaceous	⌒ Coral	Limestone	C Chalky
⊥ Calcareous	F Fossils < 20%	Sandstone	
▲ Chert, dark	⊕ Oolite	Shale	
∩ Glauconite	⊕ Oomoldic		
× Mineral Crystals			
P Pyrite			
• Silty			



Lansing 3777 -434

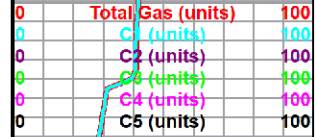
Lansing B 3832 (log 3822 -479)



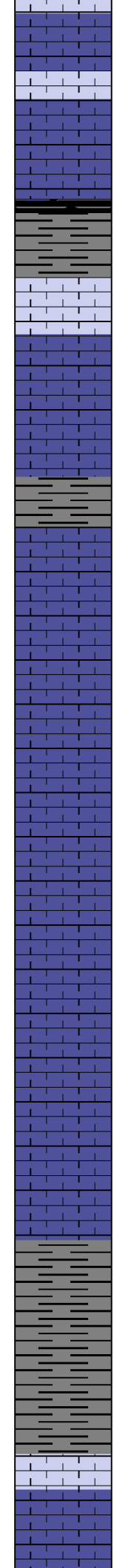
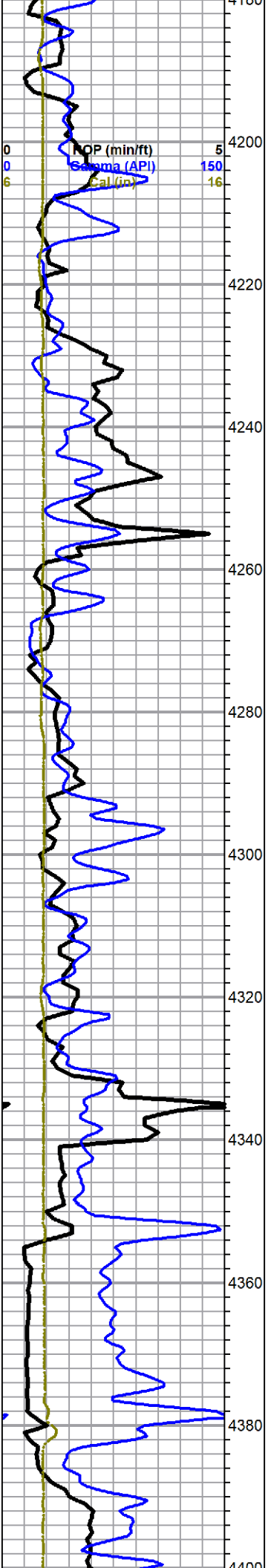


G zone 3989 -646 (log 3980 -637)

wiper trip @ 4008'



Mud-Co Mud chk
 @ 4123 ft.
 0845 hrs. 9/28/18
 Vis. 55 Wt. 9.0
 PV 18 YP 20
 WL 6.8
 Cake 1/32.
 pH 9.5
 CHL 1400 ppm
 Ca 20 ppm
 Sol 4.9 LCM 8#
 DMC \$234.39
 CMC \$15968.06

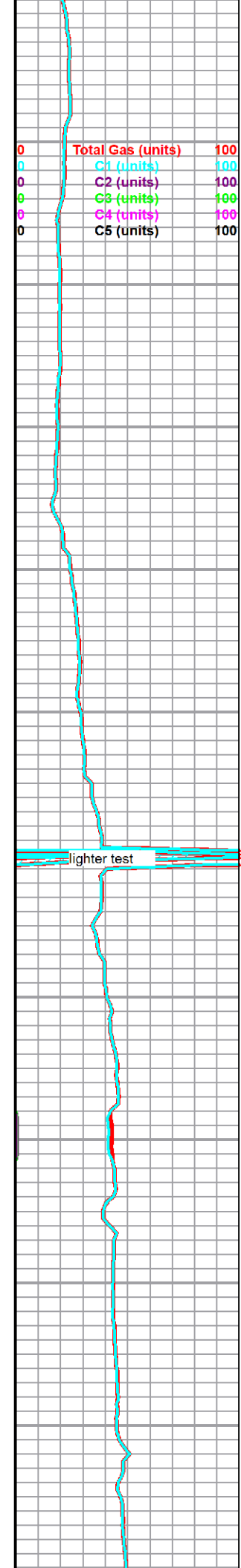


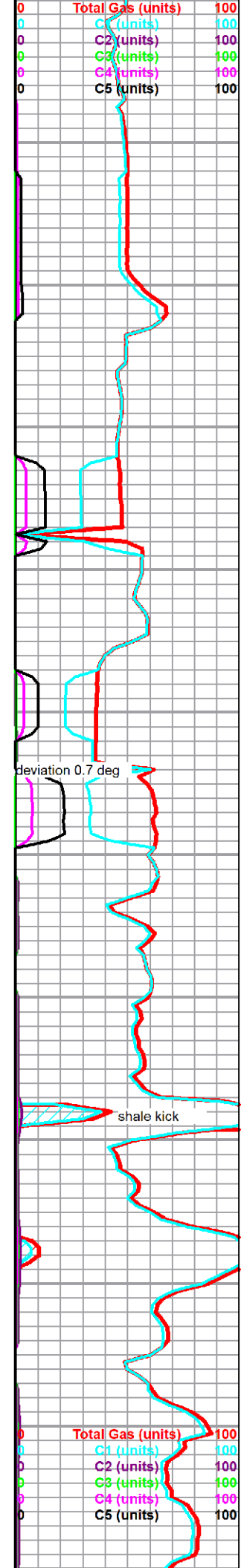
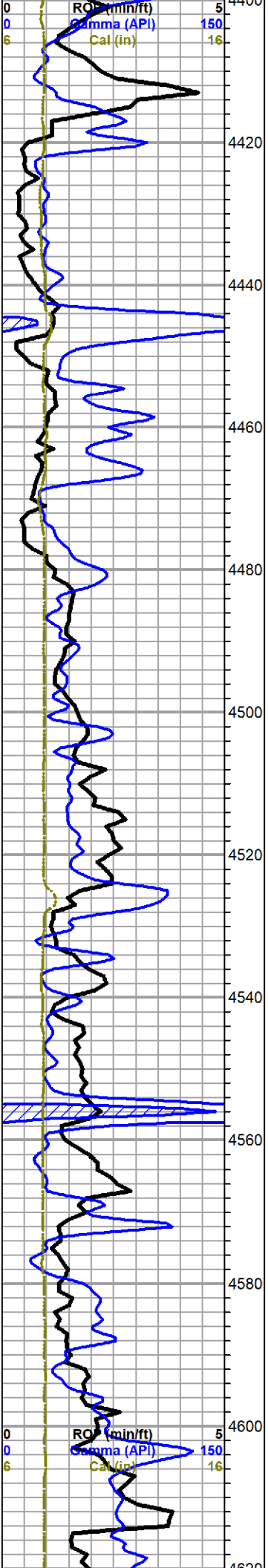
Stark 4208 -865 (log 4204 -861)

Lansing K 4219 -876 (log 4214 -871)

Pleasanton 4354 -1011 (log 4351 -1008)

Marmaton 4384 -1041 (log 4382 -1039)





Marmaton C 4471 -1128 (log 4467 -1124)

limestone, gray, cryptocrystalline, fossiliferous, trace oolitic, trace light gray oomoldic, no shows, carrying abundant black shale

begin 10 ft wet and dry samples @ 4530 ft

Ft. Scott 4534 -1191 (log 4530 -1187)

limestone, gray to cream, micro-cryptocrystalline, fossiliferous to sub-lithographic, poor visible porosity, no shows, flood chalk in samples, appx 40%

limestone, mixed gray, fossiliferous, chalk from above drops out, no shows

shale, black carbonaceous (up in 4570 sample)

limestone, mixed gray to cream, mostly cryptocrystalline, fossiliferous, poor visible porosity, no shows

Excello 4569 -1226 (log 4568 -1225)

4590 sample, limestone a.a. with flood chalk, 50%+

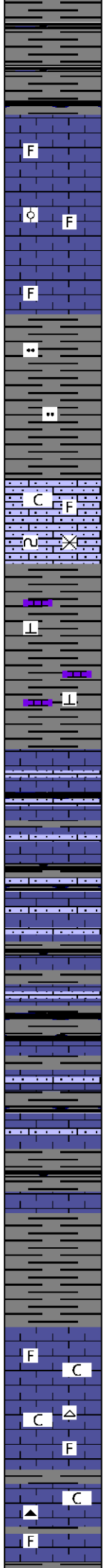
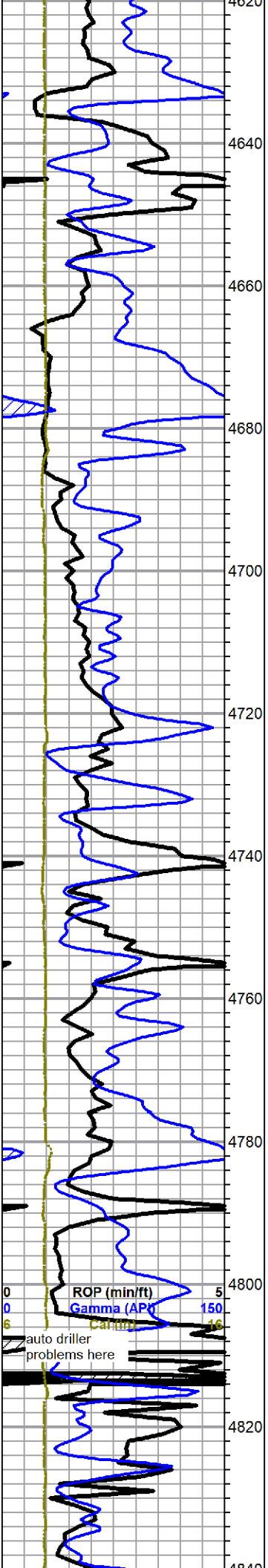
limestone, grades to gray to gray/brown mottled, fossiliferous to arenaceous, influx gray limey shales, no shows

limestone, gray, micro-cryptocrystalline, arenaceous, dense, with gray and black shale

shale, mostly dark gray, some black

deviation 0.7 deg

shale kick



Celia 4636 -1293 (log 4633 -1290)

limestone, gray to light gray, some mottled, microcrystalline, fossiliferous, trace oolitic, some arenaceous, poor visible porosity, no shows

dark gray shale, silty, fairly homogenous

sandy limestone, to sandstone, white to gray mottled, trace glauconite, some fossil frags, some large calcite crystals, sand is fine to very fine grain, rounded to sub-angular, abundant chalk in samples, poor visible porosity, no shows

shale, gray, calcareous/limey, mixed argillaceous to fossiliferous limestones

limestone, gray to white and cream, mixed fossiliferous to sandy some very chalky, abundant gray and black shales, no shows

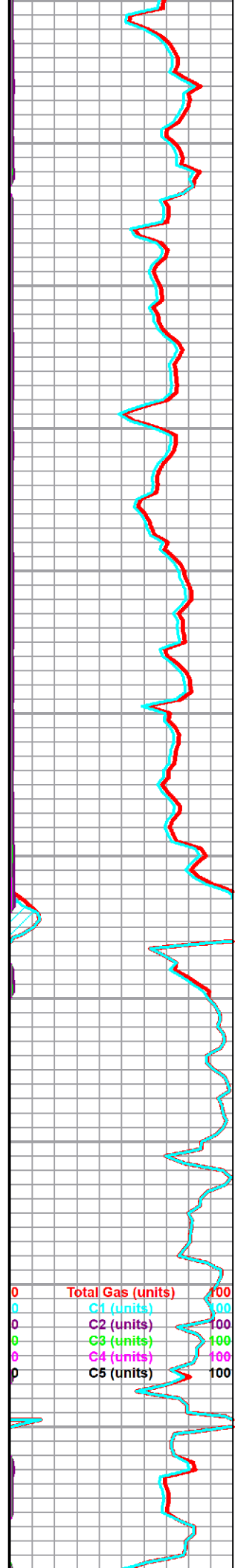
a.a., more shale than limestone

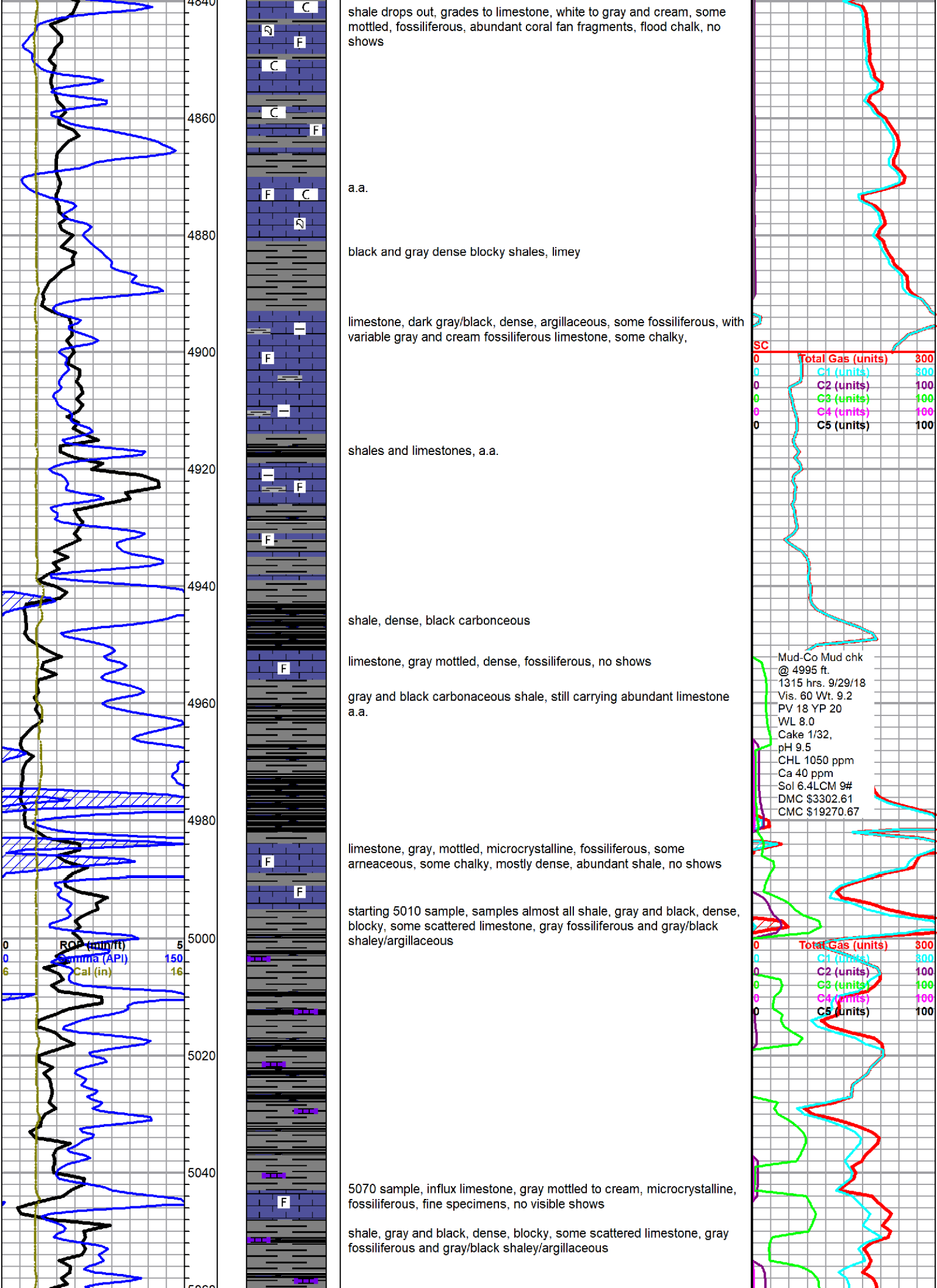
shale, gray, some black, with smooth limey light gray shale, brittle

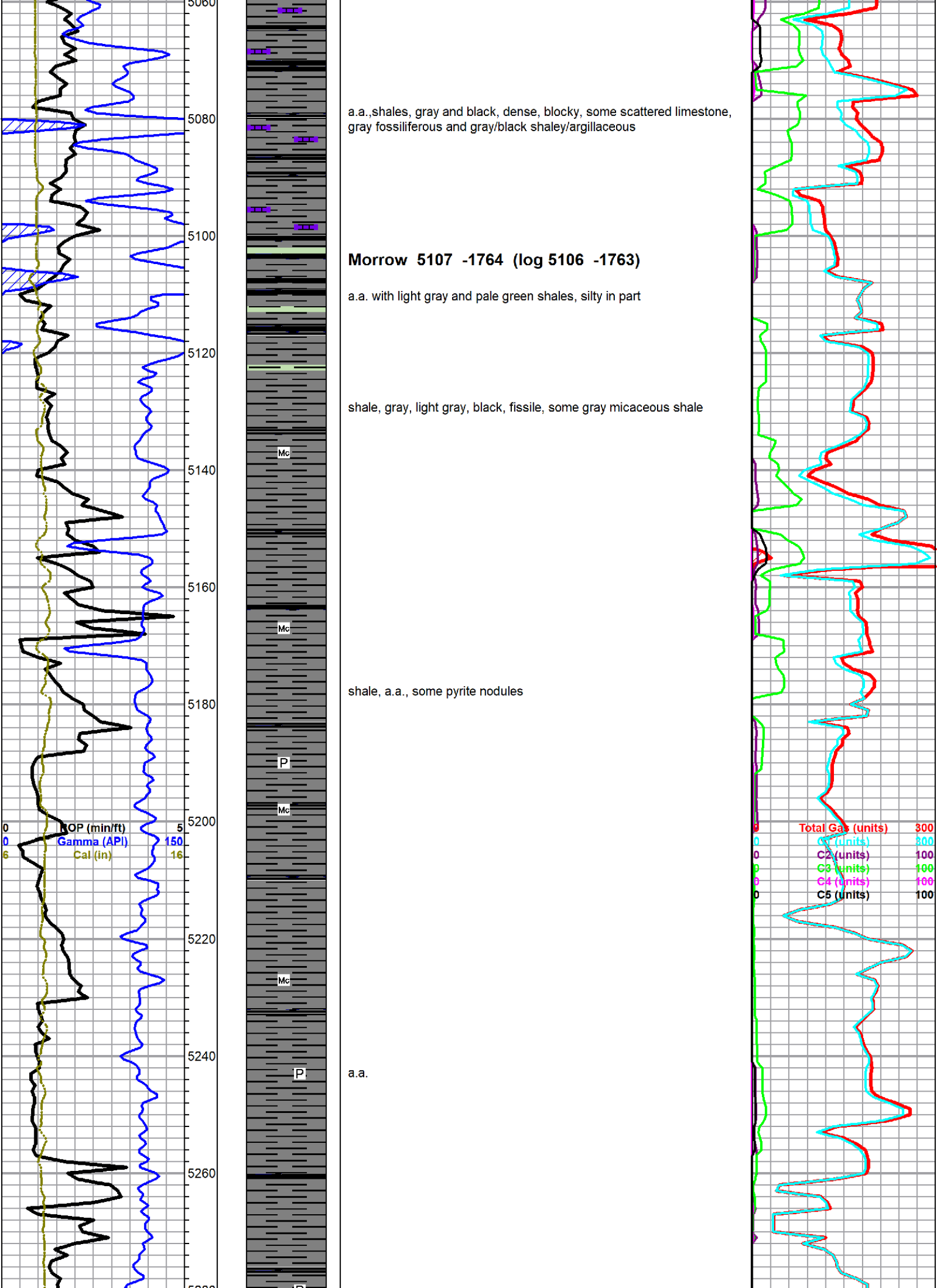
Atoka 4804 -1461 (log 4814 -1471)

limestone, light gray, mottled, micro-cryptocrystalline, fossiliferous, weathered, chalky, some gray fossiliferous chert, no shows

limestone, gray, mottled, fossiliferous, chalky in part, some grainy, poor visible porosity, no shows, abundant shales, trace chert







a.a., shales, gray and black, dense, blocky, some scattered limestone, gray fossiliferous and gray/black shaley/argillaceous

Morrow 5107 -1764 (log 5106 -1763)

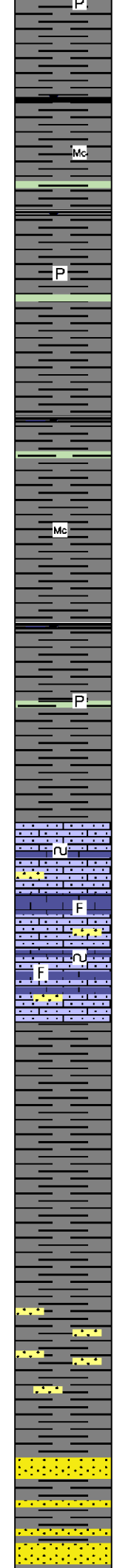
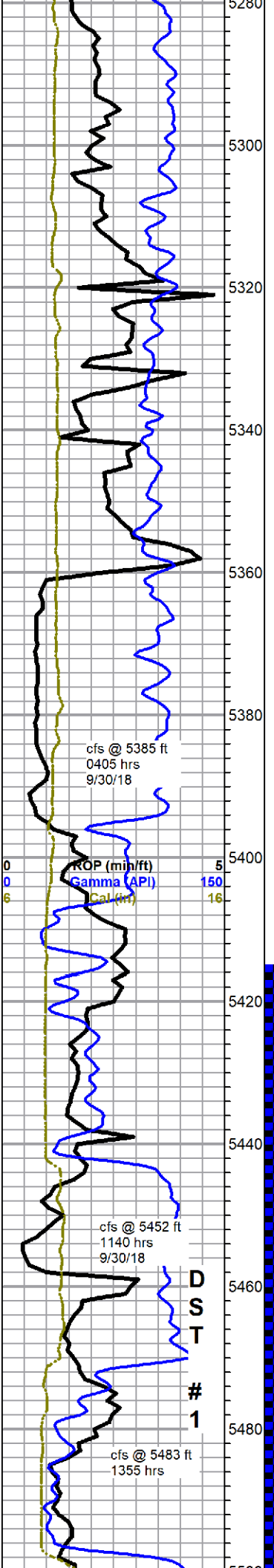
a.a. with light gray and pale green shales, silty in part

shale, gray, light gray, black, fissile, some gray micaceous shale

shale, a.a., some pyrite nodules

a.a.

Total Gas (units)	300
C1 (units)	300
C2 (units)	100
C3 (units)	100
C4 (units)	100
C5 (units)	100



a.a., trace pale green pyritic shale

a.a.

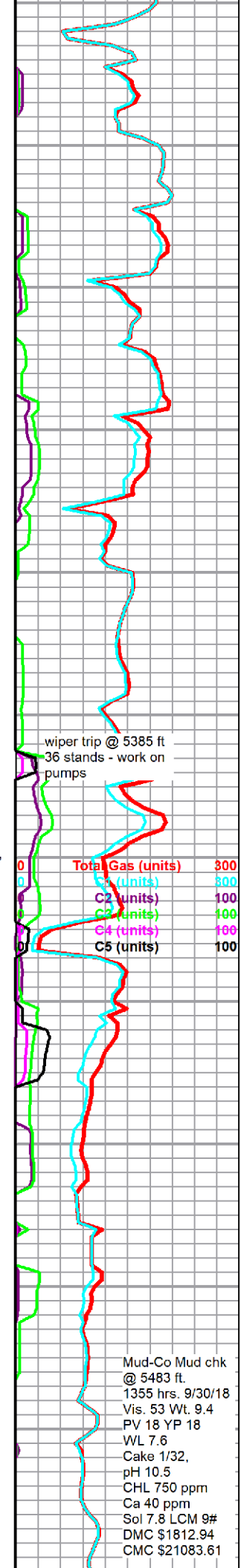
Morrow Lime Marker 5395 -2052 (log 5394 -2051)

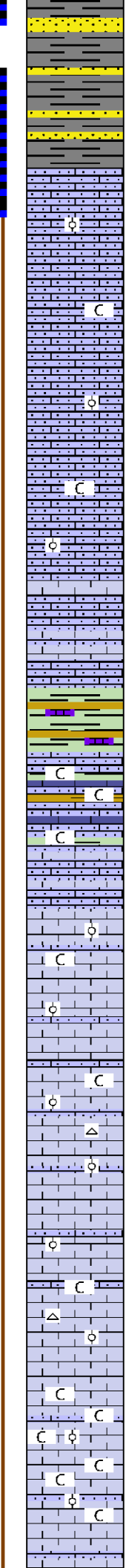
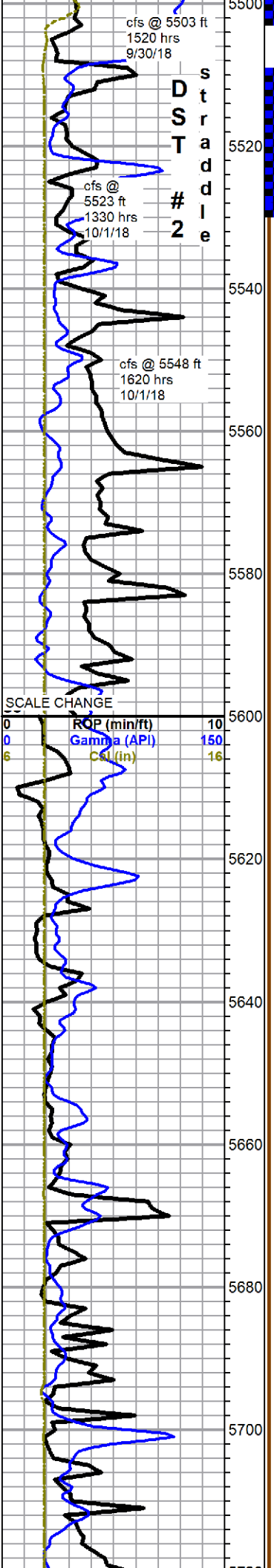
limestone, gray/green mottled, fossiliferous, some oolitic, mostly sandy, very glauconitic, with some sandstone, gray/green, very fine to fine grain, round to sub-round, variable grain, poorly sorted, well cemented, glauconitic, poor visible porosity, no shows, mostly shales in samples

some sand a.a., barren, mostly shale in samples

Keyes Sand 5484 -2141 (log 5470 -2127)

cfs samples, marked increase in sandstone a.a., still barren, abundant loose quartz grains





a.a.

Mississippian 5523 -2180 (5530 -2187)

starting in 5540 sample, trace limestone, pale green/gray to white, sandy, some micro-oolitic and sandy, chalky, fairly dense, no visible porosity, no shows - flood of this facies in 5548 sample

a.a., grading to mostly white to cream with some light gray

as above, increasing flattened oolitic

5620 sample, flood light green and lavender shale, smooth, dense, limey, with some olive, lavender and green lithographic to sandy limestone, very dense, no shows

5630 sample, a.a., flood chalk, heavy milky wash in samples

St. Louis 5628 -2285 (log 5610 -2267)

5650 marked increase in oolitic, slightly flattened, cream to light gray, chalky, no visible porosity or shows

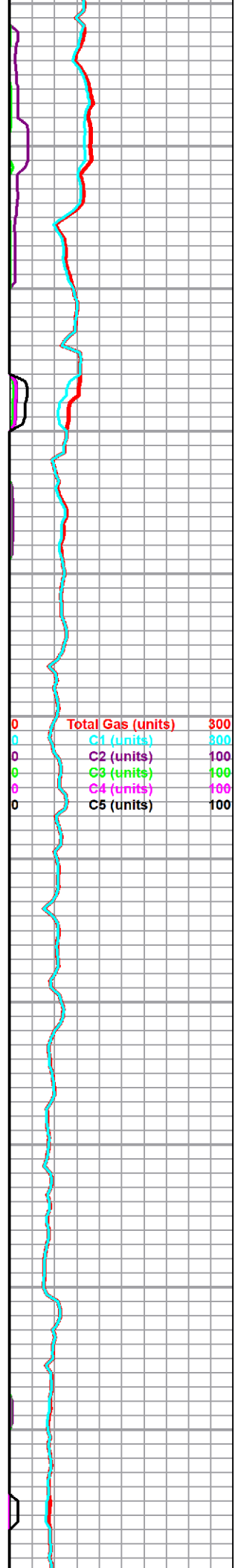
5660 sample influx dark gray dirty very sandy limestone

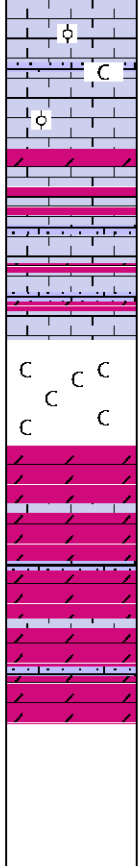
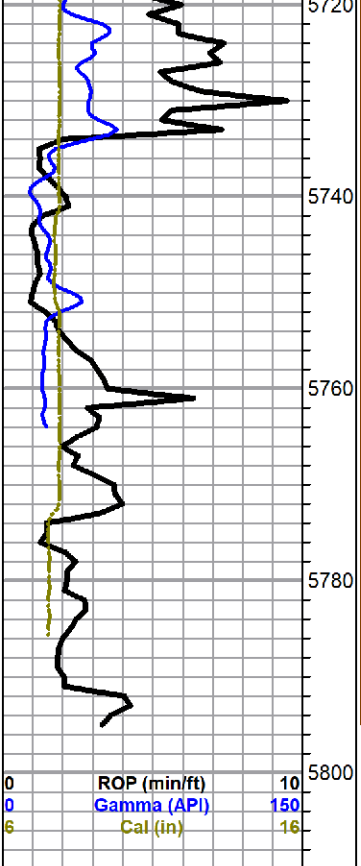
grades to limestone, white to light gray, oolitic, variable fine to flattened, grainy, chalky, some sandy streaks, poor visible porosity, no shows, trace chert

a.a.

limestone, light gray to tan, fine oolitic, some flattened, some sandy, flood chalk, appx 40%, no shows

a.a., marked decrease in chalk



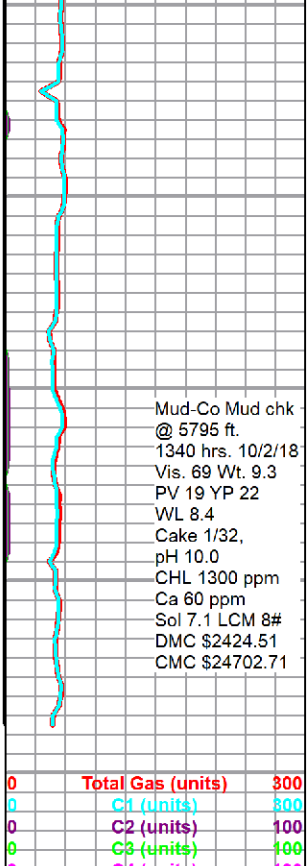


a.a. with influx dolomite, cream to light gray, microcrystalline, sub-sucrosic to sub-lithographic, dense, no visible porosity, no shows

5780 sample almost all chalk

dolomite, cream to tan and light gray, microcrystalline, sub-sucrosic, dense, some secondary crystals, trace sandy, with oolitic and sandy limestones as above, moderate chalk, no shows

TD @ 5795 ft 0615 hrs 10/2/18
Pioneer Wireline TD 5795 ft



Mud-Co Mud chk
@ 5795 ft.
1340 hrs. 10/2/18
Vis. 69 Wt. 9.3
PV 19 YP 22
WL 8.4
Cake 1/32,
pH 10.0
CHL 1300 ppm
Ca 60 ppm
Sol 7.1 LCM 8#
DMC \$2424.51
CMC \$24702.71



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co**

250 N Water Ste 300
Wichita, KS 67202

ATTN: Keith Reavis

Plummer #1-25

25-28s-41w Stanton,KS

Start Date: 2018.09.30 @ 20:33:38

End Date: 2018.10.01 @ 07:53:08

Job Ticket #: 64256 DST #: 1

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2018.10.04 @ 09:52:37



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co
250 N Water Ste 300
Wichita, KS 67202
ATTN: Keith Reavis

25-28s-41w Stanton, KS

Plummer #1-25

Job Ticket: 64256 **DST#: 1**

Test Start: 2018.09.30 @ 20:33:38

GENERAL INFORMATION:

Formation: **Morrow - Keyes**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:39:08

Time Test Ended: 07:53:08

Test Type: Conventional Bottom Hole (Initial)

Tester: Brandon Turley

Unit No: 79

Interval: **5415.00 ft (KB) To 5503.00 ft (KB) (TVD)**

Reference Elevations: 3342.00 ft (KB)

Total Depth: 5503.00 ft (KB) (TVD)

3332.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8166

Outside

Press@RunDepth: 215.84 psig @ 5420.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.09.30

End Date:

2018.10.01

Last Calib.:

2018.10.01

Start Time: 20:33:43

End Time:

07:53:08

Time On Btm:

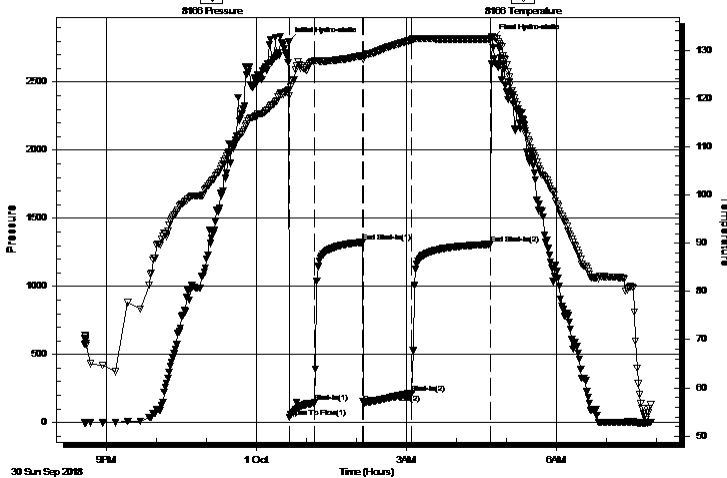
2018.10.01 @ 00:38:38

Time Off Btm:

2018.10.01 @ 04:43:08

TEST COMMENT: IF: 1/4" blow built to 8 1/2"
IS: No return.
FF: BOB in 50 min. 11"
FS: No return.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2794.96	121.70	Initial Hydro-static
1	39.67	120.55	Open To Flow (1)
31	146.95	127.80	Shut-In(1)
89	1322.86	128.83	End Shut-In(1)
90	144.67	128.66	Open To Flow (2)
148	215.84	132.12	Shut-In(2)
242	1309.66	132.33	End Shut-In(2)
245	2822.23	132.75	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
189.00	mcw 90%w 10%m	1.04
126.00	w cm 30%w 70%m	1.77
126.00	mud 100%m	1.77

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co
 250 N Water Ste 300
 Wichita, KS 67202
 ATTN: Keith Reavis

25-28s-41w Stanton, KS

Plummer #1-25

Job Ticket: 64256

DST#: 1

Test Start: 2018.09.30 @ 20:33:38

GENERAL INFORMATION:

Formation: **Morrow - Keyes**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:39:08

Time Test Ended: 07:53:08

Test Type: Conventional Bottom Hole (Initial)

Tester: Brandon Turley

Unit No: 79

Interval: 5415.00 ft (KB) To 5503.00 ft (KB) (TVD)

Total Depth: 5503.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3342.00 ft (KB)

3332.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 6651

Inside

Press@RunDepth: psig @ 5420.00 ft (KB)

Start Date: 2018.09.30

End Date:

2018.10.01

Capacity: 8000.00 psig

Last Calib.:

2018.10.01

Start Time: 20:33:46

End Time:

07:53:11

Time On Btm:

Time Off Btm:

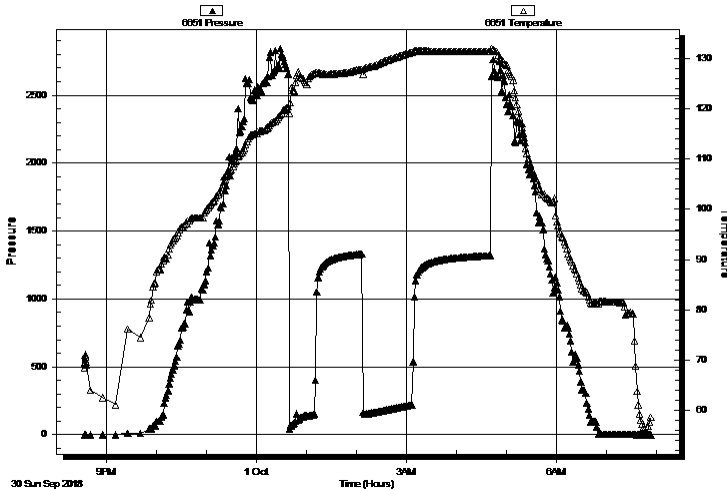
TEST COMMENT: IF: 1/4" blow built to 8 1/2"

IS: No return.

FF: BOB in 50 min. 11"

FS: No return.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
189.00	mcw 90%w 10%m	1.04
126.00	w cm 30%w 70%m	1.77
126.00	mud 100%m	1.77

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co
250 N Water Ste 300
Wichita, KS 67202
ATTN: Keith Reavis

25-28s-41w Stanton,KS
Plummer #1-25
Job Ticket: 64256 **DST#: 1**
Test Start: 2018.09.30 @ 20:33:38

Tool Information

Drill Pipe:	Length: 5215.00 ft	Diameter: 3.80 inches	Volume: 73.15 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 177.00 ft	Diameter: 2.25 inches	Volume: 0.87 bbl	Weight to Pull Loose: 110000.0 lb
			<u>Total Volume: 74.02 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	0.00 ft			String Weight: Initial 77000.00 lb
Depth to Top Packer:	5415.00 ft			Final 78000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	92.00 ft			
Tool Length:	115.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Stubb	1.00			5393.00	
Shut In Tool	5.00			5398.00	
Hydraulic tool	5.00			5403.00	
Jars	5.00			5408.00	
Safety Joint	2.00			5410.00	
Packer	5.00			5415.00	23.00 Bottom Of Top Packer
Packer - Shale	4.00			5419.00	
Stubb	1.00			5420.00	
Recorder	0.00	6651	Inside	5420.00	
Recorder	0.00	8166	Outside	5420.00	
Perforations	18.00			5438.00	
Change Over Sub	1.00			5439.00	
Drill Pipe	62.00			5501.00	
Change Over Sub	1.00			5502.00	
Bullnose	5.00			5507.00	92.00 Anchor Tool

Total Tool Length: 115.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co

25-28s-41w Stanton,KS

250 N Water Ste 300
Wichita, KS 67202

Plummer #1-25

Job Ticket: 64256

DST#: 1

ATTN: Keith Reavis

Test Start: 2018.09.30 @ 20:33:38

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

26000 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.59 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 750.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
189.00	mcw 90%w 10%m	1.039
126.00	w cm 30%w 70%m	1.767
126.00	mud 100%m	1.767

Total Length: 441.00 ft Total Volume: 4.573 bbf

Num Fluid Samples: 0

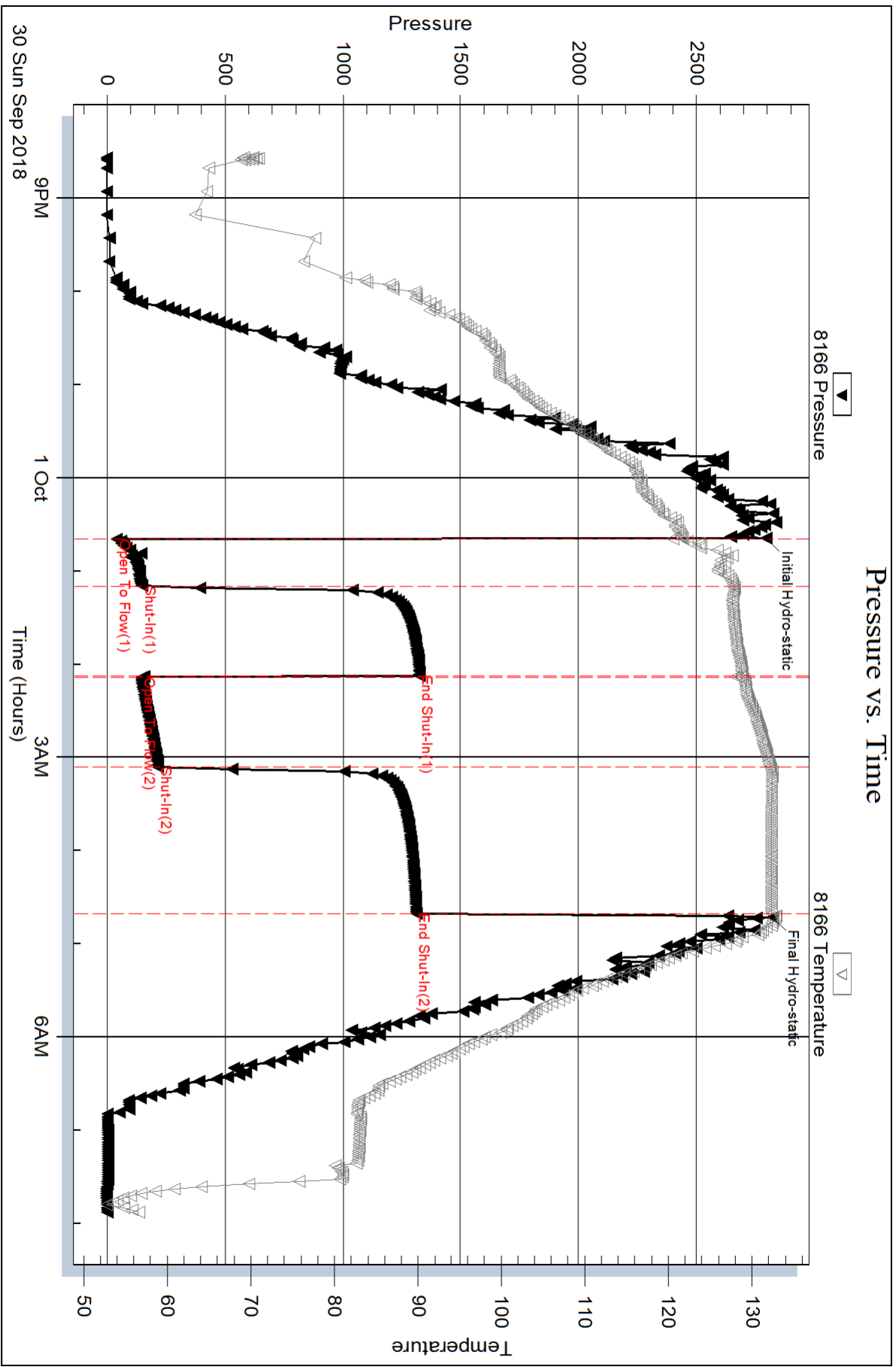
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .36@51=26000



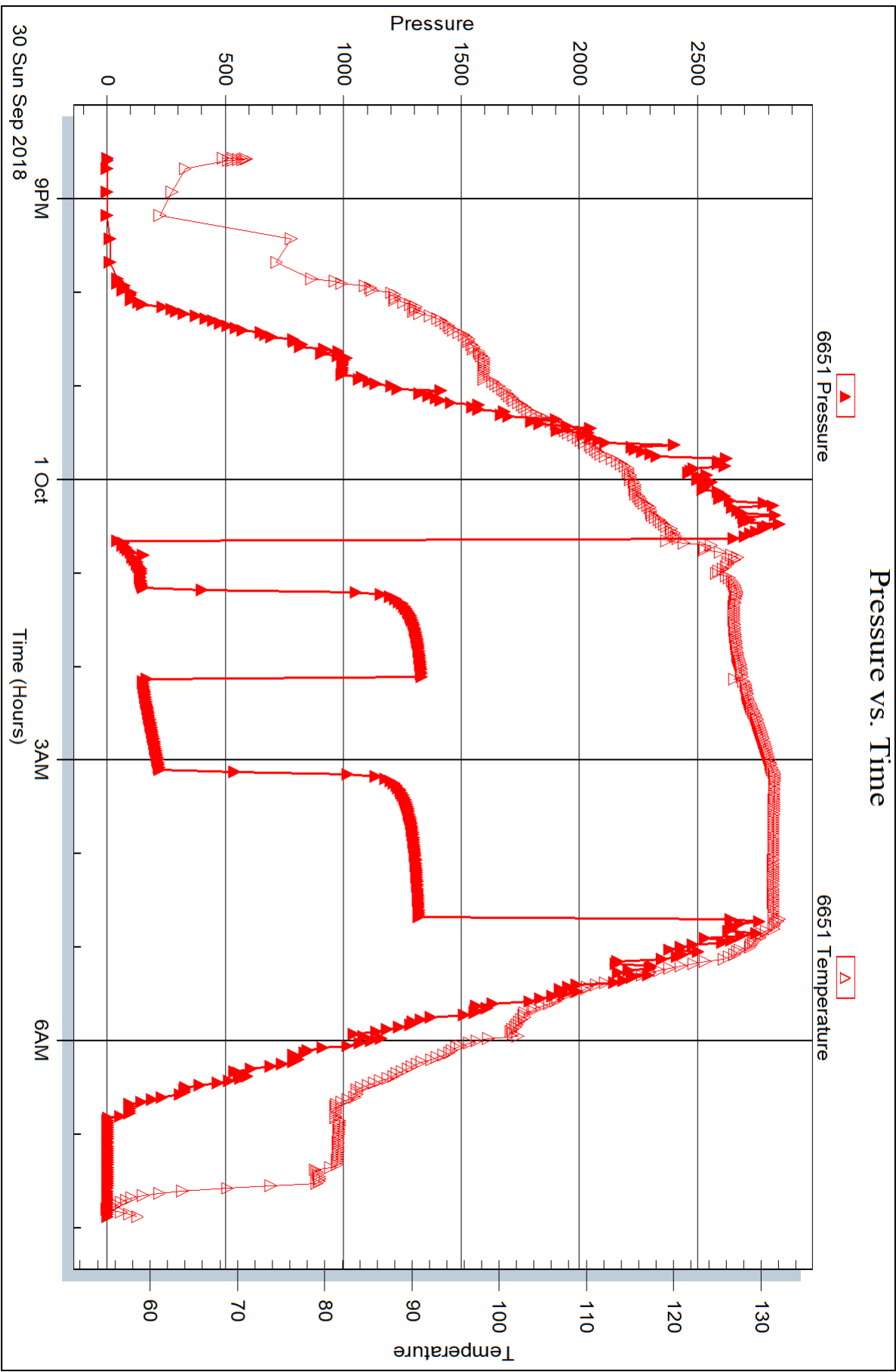
Serial #: 6651

Inside

Murfin Drilling Co

Pumper #1-25

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co**

250 N Water Ste 300
Wichita, KS 67202

ATTN: Keith Reavis

Plummer #1-25

25-28s-41w Stanton,KS

Start Date: 2018.10.02 @ 17:38:01

End Date: 2018.10.03 @ 03:24:01

Job Ticket #: 64256 DST #: 2

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2018.10.04 @ 09:52:10



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co
 250 N Water Ste 300
 Wichita, KS 67202
 ATTN: Keith Reavis

25-28s-41w Stanton, KS

Plummer #1-25

Job Ticket: 64256

DST#: 2

Test Start: 2018.10.02 @ 17:38:01

GENERAL INFORMATION:

Formation: **Lower Morrow**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 21:12:31
 Time Test Ended: 03:24:01
 Interval: **5509.00 ft (KB) To 5530.00 ft (KB) (TVD)**
 Total Depth: 5795.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Brandon Turley
 Unit No: 79
 Reference Elevations: 3342.00 ft (KB)
 3332.00 ft (CF)
 KB to GR/CF: 10.00 ft

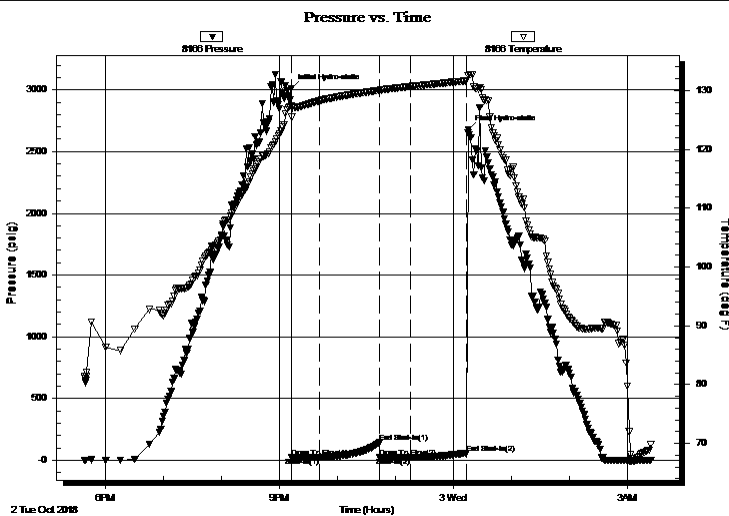
Serial #: 8166

Outside

Press@RunDepth: 24.38 psig @ 5514.00 ft (KB)
 Start Date: 2018.10.02 End Date: 2018.10.03
 Start Time: 17:38:06 End Time: 03:24:01
 Capacity: 8000.00 psig
 Last Calib.: 2018.10.03
 Time On Btm: 2018.10.02 @ 21:12:01
 Time Off Btm: 2018.10.03 @ 00:15:31

TEST COMMENT: IF: 1/4" blow died in 30 min.
 IS: No return.
 FF: No blow.
 FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	3008.09	127.45	Initial Hydro-static
1	26.62	125.46	Open To Flow (1)
30	26.60	128.27	Shut-In(1)
91	143.56	130.05	End Shut-In(1)
92	25.72	130.01	Open To Flow (2)
124	24.38	130.69	Shut-In(2)
181	60.02	131.64	End Shut-In(2)
184	2676.32	132.63	Final Hydro-static

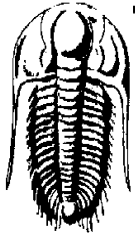
Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud 100%m	0.02

Gas Rates

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

* Recovery from multiple tests



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co
250 N Water Ste 300
Wichita, KS 67202
ATTN: Keith Reavis

25-28s-41w Stanton, KS

Plummer #1-25

Job Ticket: 64256

DST#: 2

Test Start: 2018.10.02 @ 17:38:01

GENERAL INFORMATION:

Formation: **Lower Morrow**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:12:31

Time Test Ended: 03:24:01

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 79

Interval: **5509.00 ft (KB) To 5530.00 ft (KB) (TVD)**

Total Depth: 5795.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3342.00 ft (KB)

3332.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: **6651** Inside

Press@RunDepth: psig @ 5514.00 ft (KB)

Start Date: 2018.10.02

End Date: 2018.10.03

Start Time: 17:38:37

End Time: 03:23:32

Capacity: 8000.00 psig

Last Calib.: 2018.10.03

Time On Btm:

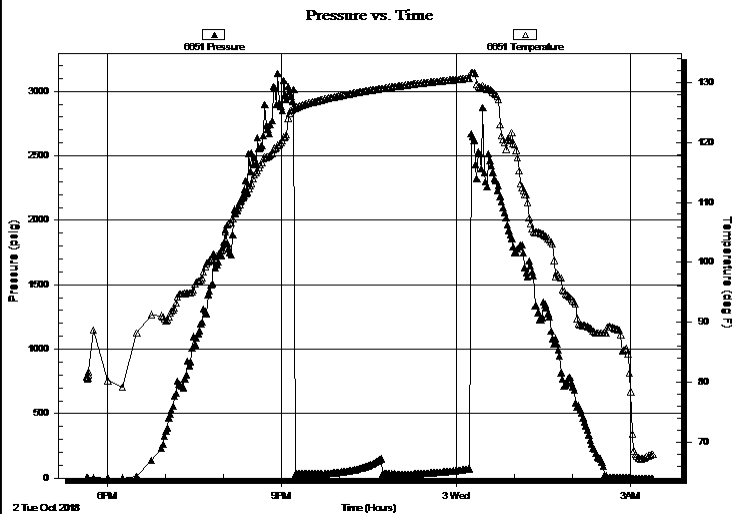
Time Off Btm:

TEST COMMENT: IF: 1/4" blow died in 30 min.

IS: No return.

FF: No blow .

FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud 100% m	0.02

Gas Rates

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

* Recovery from multiple tests



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co
250 N Water Ste 300
Wichita, KS 67202
ATTN: Keith Reavis

25-28s-41w Stanton,KS

Plummer #1-25

Job Ticket: 64256 **DST#: 2**

Test Start: 2018.10.02 @ 17:38:01

GENERAL INFORMATION:

Formation: **Lower Morrow**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:12:31

Time Test Ended: 03:24:01

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 79

Interval: **5509.00 ft (KB) To 5530.00 ft (KB) (TVD)**

Total Depth: 5795.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3342.00 ft (KB)

3332.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8650 Below (Straddle)

Press@RunDepth: psig @ 5542.00 ft (KB)

Start Date: 2018.10.02

End Date:

2018.10.03

Start Time: 17:38:16

End Time:

03:23:41

Capacity: 8000.00 psig

Last Calib.: 2018.10.03

Time On Btm:

Time Off Btm:

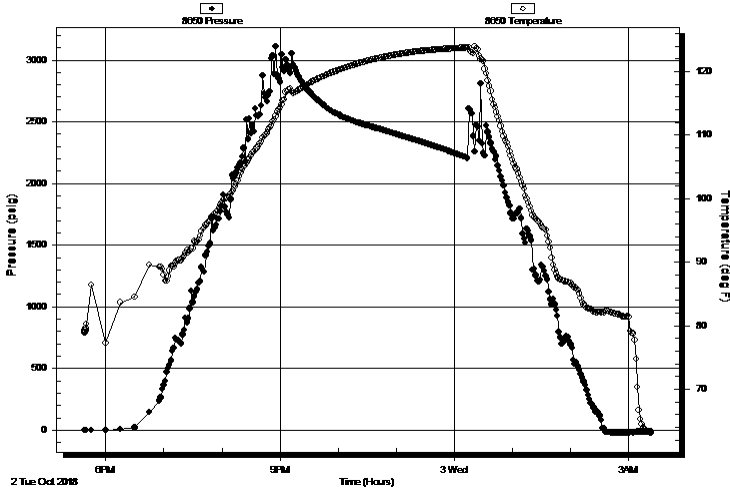
TEST COMMENT: IF: 1/4" blow died in 30 min.

IS: No return.

FF: No blow.

FS: No return.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud 100% _m	0.02

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co
250 N Water Ste 300
Wichita, KS 67202
ATTN: Keith Reavis

25-28s-41w Stanton,KS
Plummer #1-25
Job Ticket: 64256 **DST#: 2**
Test Start: 2018.10.02 @ 17:38:01

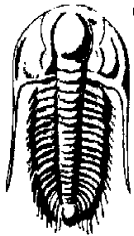
Tool Information

Drill Pipe:	Length: 5339.00 ft	Diameter: 3.80 inches	Volume: 74.89 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 177.00 ft	Diameter: 2.25 inches	Volume: 0.87 bbl	Weight to Pull Loose: 950000.0 lb
			<u>Total Volume: 75.76 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 80000.00 lb
Depth to Top Packer:	5509.00 ft			Final 80000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	290.00 ft			
Tool Length:	313.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			5487.00	
Shut In Tool	5.00			5492.00	
Hydraulic tool	5.00			5497.00	
Jars	5.00			5502.00	
Safety Joint	2.00			5504.00	
Packer	5.00			5509.00	23.00 Bottom Of Top Packer
Packer - Shale	4.00			5513.00	
Stubb	1.00			5514.00	
Recorder	0.00	6651	Inside	5514.00	
Recorder	0.00	8166	Outside	5514.00	
Perforations	15.00			5529.00	
Blank Off Sub	1.00			5530.00	
Packer - Shale	4.00			5534.00	
Stubb	1.00			5535.00	
Perforations	7.00			5542.00	
Recorder	0.00	8650	Below	5542.00	
Change Over Sub	1.00			5543.00	
Drill Pipe	250.00			5793.00	
Change Over Sub	1.00			5794.00	
Bullnose	5.00			5799.00	290.00 Anchor Tool

Total Tool Length: 313.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co

25-28s-41w Stanton, KS

250 N Water Ste 300
Wichita, KS 67202

Plummer #1-25

Job Ticket: 64256

DST#: 2

ATTN: Keith Reavis

Test Start: 2018.10.02 @ 17:38:01

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 69.00 sec/qt

Cushion Volume:

bbf

Water Loss: 8.39 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1300.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
5.00	mud 100%m	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbf

Num Fluid Samples: 0

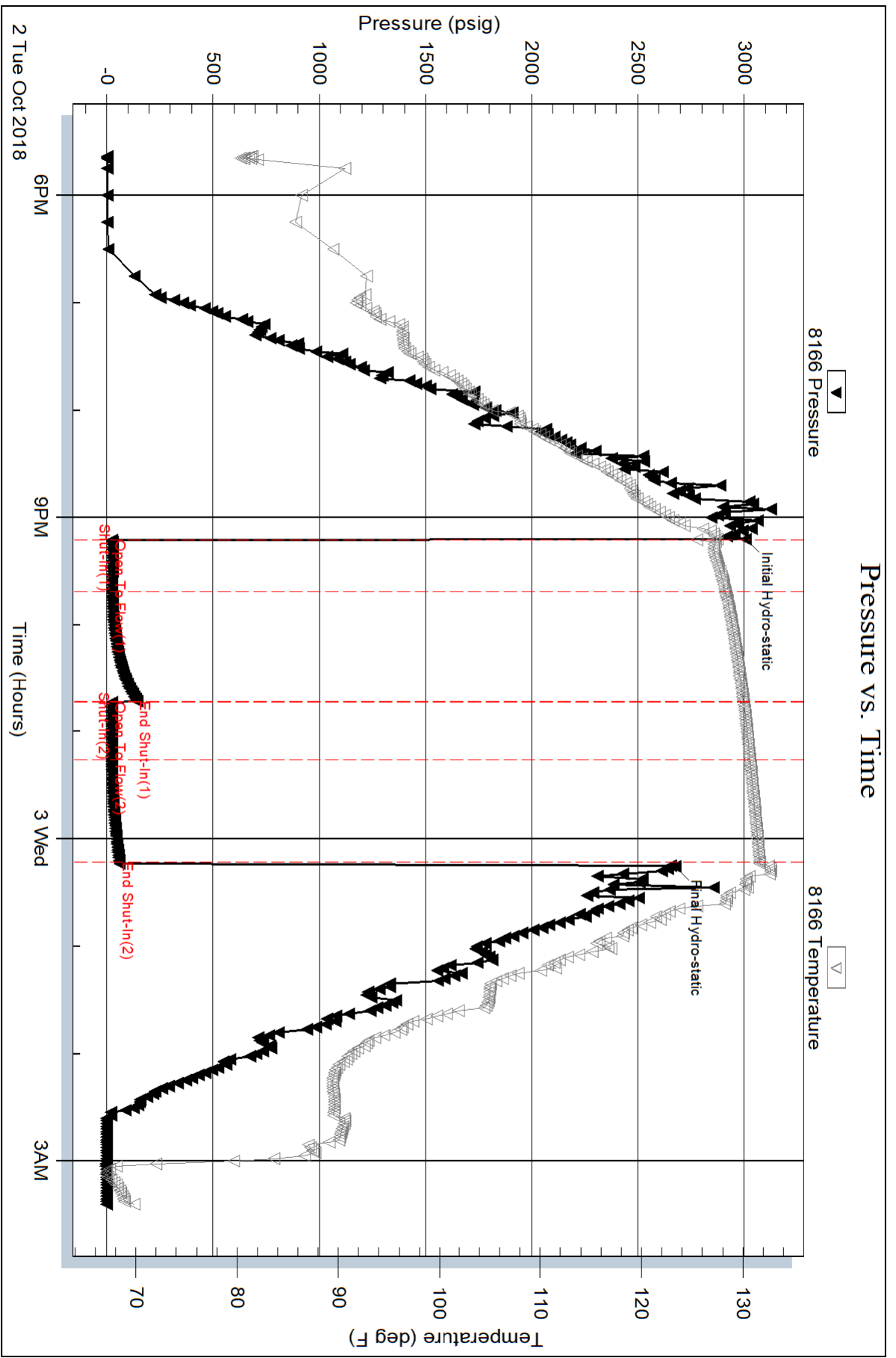
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



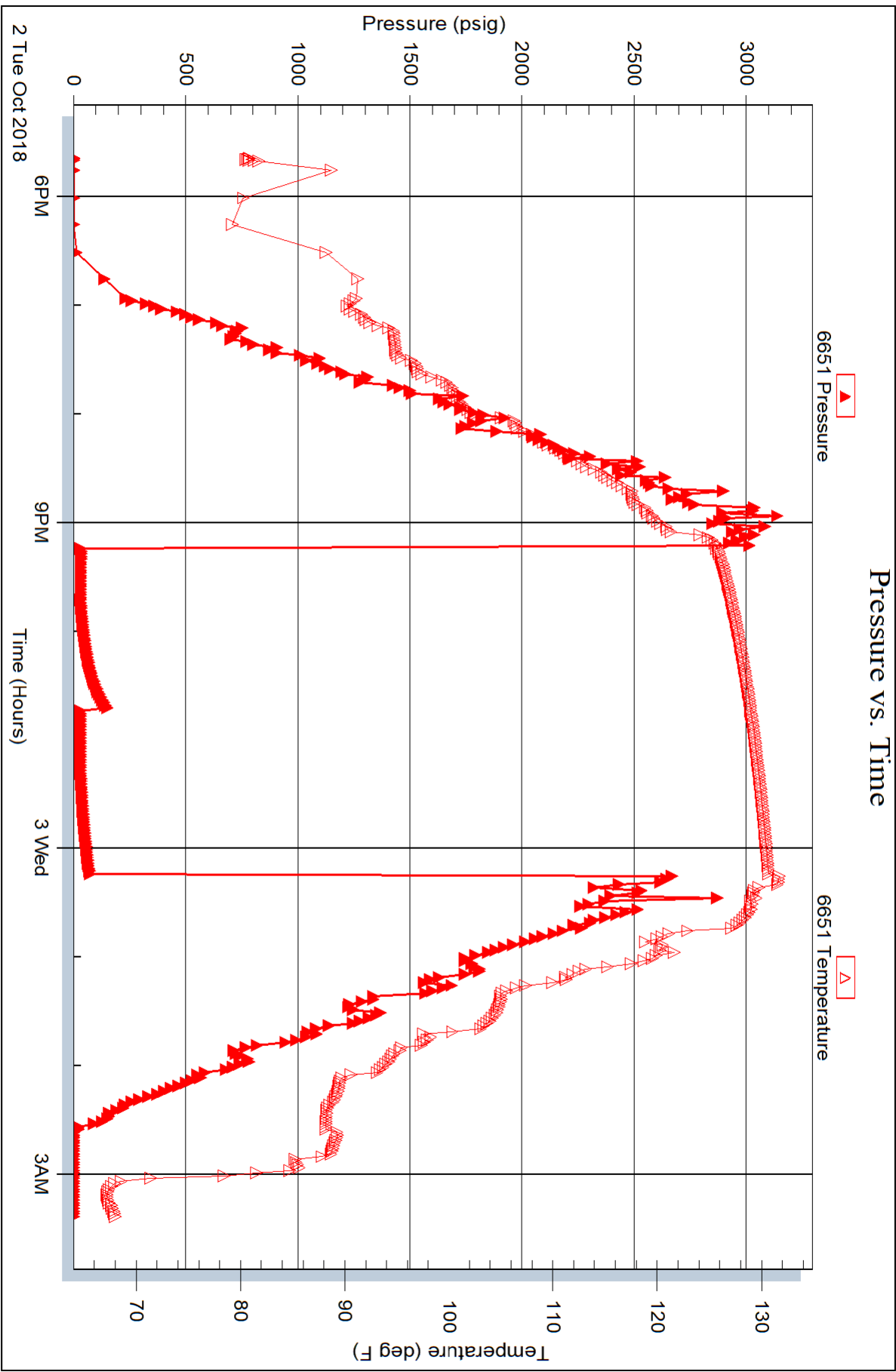
Serial #: 6651

Inside

Murfin Drilling Co

Pumper #1-25

DST Test Number: 2

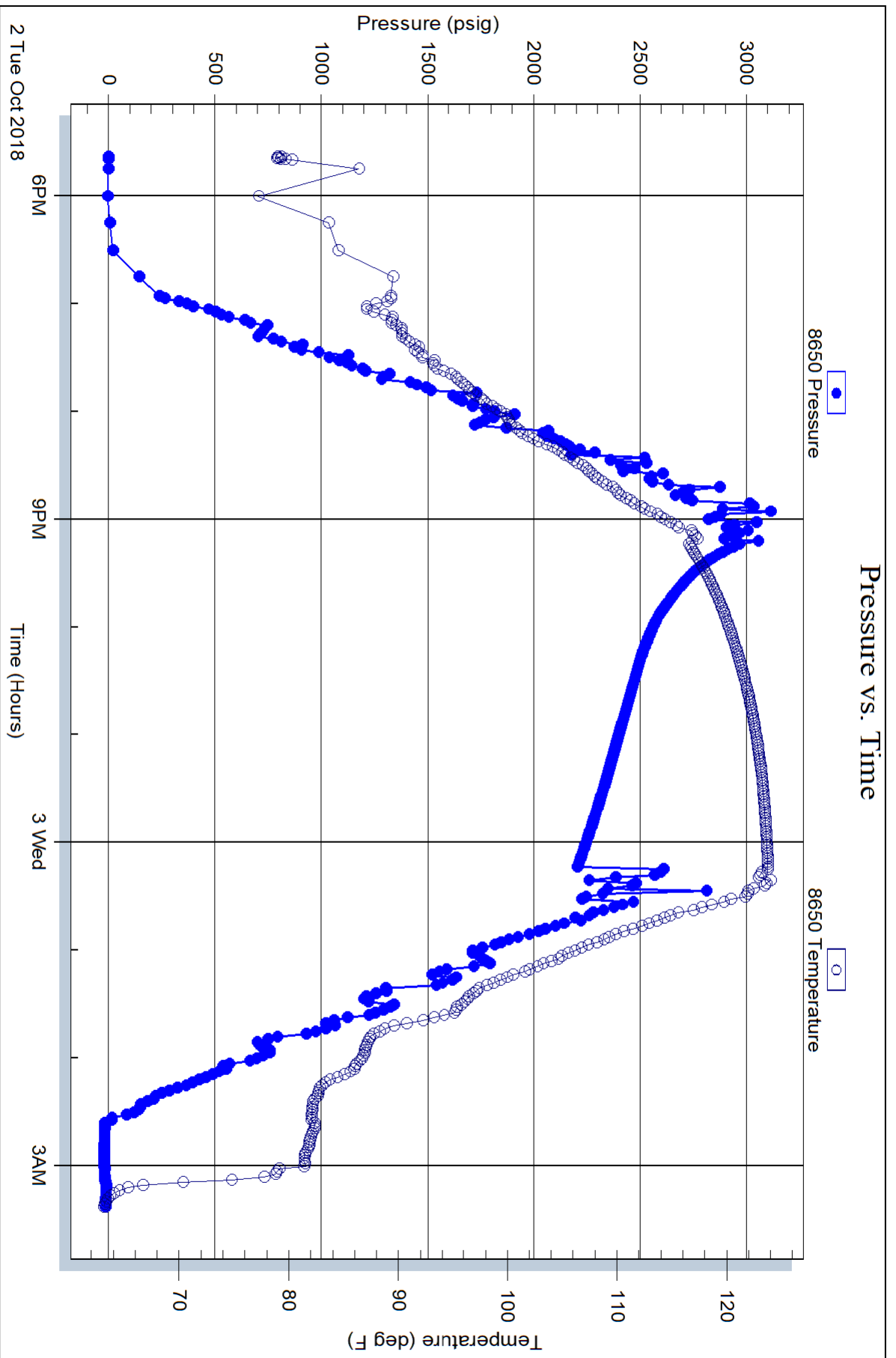


Serial #: 8650

Below (Straddler) Drilling Co

Pumper #1-25

DST Test Number: 2





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 64256

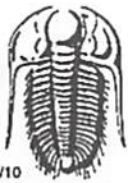
Well Name & No. Plummer 1-25 Test No. 1 Date 9-30-18
 Company Murfin Drilling Co Elevation 3342 KB 3332 GL
 Address 250 N Water St. 300 Wichita, KS 67202
 Co. Rep / Geo. Keith Reavis Rig Murfin 22
 Location: Sec. 25 Twp 28S Rge. 41W Co. Stanton State KS

Interval Tested 5415 5503 Zone Tested Morrow / Keyes
 Anchor Length 88 Drill Pipe Run 5215 Mud Wt. 9.45
 Top Packer Depth 5410 Drill Collars Run 177 Vis 53
 Bottom Packer Depth 5415 Wt. Pipe Run — WL 7.6
 Total Depth 5503 Chlorides 750 ppm System LCM 9
 Blow Description #F! #4 blow built to 8 1/2.
IS No returns
#F! BoB in 50 min. //
FS! No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>126</u>	<u>Mud</u>			<u>100</u>	
<u>126</u>	<u>WCM</u>		<u>30</u>	<u>70</u>	
<u>189</u>	<u>MCW</u>		<u>90</u>	<u>10</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 441 BHT 132 Gravity — API RW .36 @ 51 °F Chlorides 26,000 ppm
 (A) Initial Hydrostatic 2794 Test 1250 T-On Location 19:00
 (B) First Initial Flow 39 Jars 250 T-Started 20:33
 (C) First Final Flow 146 Safety Joint 75 T-Open 00:38
 (D) Initial Shut-In 1322 Circ Sub T-Pulled 41:38
 (E) Second Initial Flow 144 Hourly Standby 2-160.00 5h T-Out 8:05
 (F) Second Final Flow 215 Mileage 226 - 226 Comments out of town
 (G) Final Shut-In 1309 Sampler
 (H) Final Hydrostatic 2822 Straddle
 Shale Packer 250 Ruined Shale Packer
 Extra Packer Ruined Packer
 Extra Recorder Extra Copies
 Initial Open 30 Day Standby
 Initial Shut-In 60 Accessibility
 Final Flow 60 Sub Total 2091
 Final Shut-In 90 Total 2091 MP/DST Disc't

Approved By Keith Reavis 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.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 64257

Well Name & No. Plummer 1-25 Test No. 2 Date 10-2-18
 Company Murfin Drilling Co Elevation 3342 KB 3332 GL
 Address _____
 Co. Rep / Geo. Keith Reavis Rig Murfin 27
 Location: Sec. 25 Twp 28S Rge. 4W Co. Stanton State KS

Interval Tested 5509 5530 Zone Tested Lower Morrow
 Anchor Length 21 Drill Pipe Run 5339 Mud Wt. 9.3
 Top Packer Depth 5509 Drill Collars Run 301 Vis 69
 Bottom Packer Depth 5530 Wt. Pipe Run _____ WL 8.4
 Total Depth 5795 Chlorides 1300 ppm System LCM 8
 Blow Description FF! 1/4 blow that died in 30 min.
IS! No return.
FF! No blow.
FS! No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>Mud</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 5 BHT 131 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>3008</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>12:00</u>
(B) First Initial Flow <u>26</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>17:38</u>
(C) First Final Flow <u>26</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>21:12</u>
(D) Initial Shut-In <u>143</u>	<input checked="" type="checkbox"/> Circ Sub _____	T-Pulled <u>00:12</u>
(E) Second Initial Flow <u>25</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>3:30</u>
(F) Second Final Flow <u>24</u>	<input checked="" type="checkbox"/> Mileage <u>226-226</u>	Comments <u>Loggers done</u>
(G) Final Shut-In <u>60</u>	<input type="checkbox"/> Sampler _____	<u>at 5.</u>
(H) Final Hydrostatic <u>2676</u>	<input checked="" type="checkbox"/> Straddle <u>600</u>	<u>out of town</u>
Initial Open <u>30</u>	<input checked="" type="checkbox"/> Shale Packer <u>x2</u> <u>500</u>	<input checked="" type="checkbox"/> Ruined Shale Packer <u>350</u>
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Ruined Packer _____
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>350</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby _____	Total <u>3251</u>
	<input type="checkbox"/> Accessibility _____	MP/DST(Disc't) _____
	Sub Total <u>2901</u>	

Approved By _____

Our Representative _____

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