



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1233080
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

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

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

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

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

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

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

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

Spot Description: _____

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

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

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

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

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

County: _____ Permit #: _____

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

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

1233080

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

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

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

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

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

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

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

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

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

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

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	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> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Murfin Drilling Co., Inc.
Well Name	KLS 1-35
Doc ID	1233080

All Electric Logs Run

DIL
DUCP
MEL
BHCS



BASIC
ENERGY SERVICES

PAGE 1 of 1	CUST NO 1002852	YARD # 1718	INVOICE DATE 08/19/2014
INVOICE NUMBER 91570490			

Pratt (620) 672-1201
 B MURFIN DRILLING
 I PO Box: 288
 L RUSSELL
 L KS US 67665
 T
 O ATTN: ACCOUNTS PAYABLE

J LEASE NAME KLS 1-35
 O LOCATION
 B COUNTY Stafford
 S STATE KS
 I JOB DESCRIPTION Cement-New Well Casing/Pi
 T JOB CONTACT
 E

JOB # 40756122	EQUIPMENT # 19905	PURCHASE ORDER NO.	TERMS Net - 30 days	DUE DATE 09/18/2014
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QTY	U of M	UNIT PRICE	INVOICE AMOUNT
<i>For Service Dates: 08/16/2014 to 08/16/2014</i>			
Q040756122			
71811123A Cement-New Well Casing/Pi 08/16/2014			
Cement 8 5/8" Surface			
SEND OTHER CORRESPONDENCE TO:			
A-Con Blend Common	200.00	EA 13.68	2,736.00 T
Common Cement	200.00	EA 12.16	2,432.00 T
Celloflake	100.00	EA 2.81	281.20 T
Calcium Chloride	940.00	EA 0.80	750.12 T
*Top Rubber Cmt Plug, 8 5/8"***	1.00	EA 171.00	171.00
*Baffle Plate Alum., 8 5/8" (Blue)"	1.00	EA 129.20	129.20
Centralizer 8 5/8 x 12 1/4	2.00	EA 110.20	220.40
*Unit Mileage Chg (PU, cars one way)"	35.00	MI 3.23	113.05
Heavy Equipment Mileage	70.00	MI 5.32	372.40
*Proppant & Bulk Del. Chgs., per ton mil	658.00	EA 1.67	1,100.18
Depth Charge; 501'-1000'	1.00	EA 912.00	912.00
Blending & Mixing Service Charge	400.00	BAG 1.06	425.60
Plug Container Util. Chg.	1.00	EA 190.00	190.00
*Service Supervisor, first 8 hrs on loc.	1.00	EA 133.00	133.00
		10409.40	

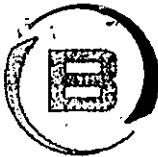
USED FOR ID 203
~~103~~
 APPROVED [Signature]

ID 203 3: 4250.0001

Cement S/Cg
 15-35

PLEASE REMIT TO: BASIC ENERGY SERVICES, LP PO BOX 841903 DALLAS, TX 75284-1903	SEND OTHER CORRESPONDENCE TO: BASIC ENERGY SERVICES, LP 801 CHERRY ST, STE 2100 FORT WORTH, TX 76102	SUB TOTAL TAX INVOICE TOTAL	9,966.15 443.25 10,409.40
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MSR



BASIC
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61
P.O. Box 8613
Pratt, Kansas 67124
Phone 620-672-1201

642756123
FIELD SERVICE TICKET
1718 11123 A

35-22-12

DATE _____ TICKET NO. _____

DATE OF JOB 8-16-14	DISTRICT	NEW WELL <input checked="" type="checkbox"/>	OLD WELL <input type="checkbox"/>	PROD <input type="checkbox"/>	INJ <input type="checkbox"/>	WDW <input type="checkbox"/>	CUSTOMER ORDER NO.:
CUSTOMER Martin Drilling Co Inc	LEASE KLS	WELL NO. 1 JS					
ADDRESS	COUNTY Stafford	STATE Ks					
CITY	STATE	SERVICE CREW Scott, M. Jr., Cole					
AUTHORIZED BY Mark	JOB TYPE: 8 5/8 Surface pipe (NW)						
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE AM PM TIME
38970	.5					ARRIVED AT JOB	8-15-14 AM 8:35
77686 19905	.5					START OPERATION	8-16-14 PM 1:20
19831 19867	.5					FINISH OPERATION	8-16-14 PM 1:55
						RELEASED	8-16-14 AM 2:30
						MILES FROM STATION TO WELL	

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: Juan Torres
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP 101	A-Con Blend Cement	SK	200		3600.00
CP 100C	Common Cement	SK	200		3200.00
CC 102	Celloflure	lb	100		370.00
CC 109	Calcium Chloride	lb	940		987.00
CE 105	Top Rubber Cement plug 8 5/8	ea	1		225.00
CE 753	Baffle Pipe Aluminum 8 5/8	ea	1		170.00
CE 1773	Centralizers 8 5/8 x 12 1/4	ea	2		290.00
F 100	Unitonilug + pickup	M8	35		148.75
E 101	Heavy Equipment M. lug	M1	70		490.00
E 113	Prop + Supp Delivery	TM	658		144.710
CE 201	Depth Charge 501-1000'	4hs	1		1200.00
CE 240	Bleeding + mixing Charge	SK	400		560.00
CE 504	Plug Container Charge	Job	1		250.00
S005	Service Supervisor	ea	1		175.00

SUB TOTAL

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
TOTAL		9,966.15

SERVICE REPRESENTATIVE <u>Scott</u>	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: <u>Juan Torres</u> (WELL OWNER OPERATOR CONTRACTOR OR AGENT)
FIELD SERVICE ORDER NO.	

BASIC

energy services, L.P.

TREATMENT REPORT

Customer <i>Muchia Drilling</i>	Lease No.	Date <i>8-16-14</i>
Lease <i>KLS</i>	Well # <i>1-35</i>	
Field Order # <i>11123</i>	Station	Casing <i>8 5/8</i>
Type Job <i>8 5/8 Surface pipe CIVIL</i>	Formation	Depth <i>647</i>
		County <i>Stullard</i>
		State <i>KS</i>
		Legal Description <i>35 22 12</i>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
<i>8 5/8</i>								
Depth <i>647</i>	Depth	From	To	Pre Pad	Max		5 Min.	
Volume <i>41.666</i>	Volume	From	To	Pad	Min		10 Min.	
Max Press <i>500</i>	Max Press	From	To	Frac	Avg		15 Min.	
Well Connection <i>8 5/8</i>	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Plug Depth	Packer Depth	From	To	Flush	Gas Volume		Total Load	

Customer Representative <i>Mark</i>	Station Manager <i>Kevin Gaudky</i>	Treater <i>SIOTY</i>
Service Units <i>38870</i>	<i>77636</i>	<i>19831</i>
<i>19605</i>	<i>19467</i>	
Driver Names <i>SIOTY</i>	<i>Mike</i>	<i>Colt</i>

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>8:35</i>					<i>On location Safety Meeting</i>
					<i>Rig up</i>
<i>12:10</i>					<i>Rin float equipment</i>
					<i>Bubble on 1 Centralizers on 4+12</i>
<i>1:15</i>					<i>Circulated well</i>
<i>1:20</i>	<i>100</i>		<i>3</i>	<i>5.4</i>	<i>Pump H2O spacer</i>
<i>1:22</i>	<i>200</i>		<i>75.5</i>	<i>6.5</i>	<i>Mix 200 SKS A-Lon 12.6 pp</i>
<i>1:33</i>	<i>300</i>		<i>42.7</i>	<i>6.3</i>	<i>Mix 200 SKS Common 15.6 pp</i>
<i>1:42</i>					<i>Shut Down</i>
					<i>Drop plug</i>
<i>1:44</i>	<i>350</i>			<i>6.2</i>	<i>Start Disp</i>
<i>1:55</i>			<i>39</i>		<i>Disp Complete</i>
<i>1:55</i>	<i>500</i>				<i>Plug landed - C.F.R. CEMENT TO PET</i>
					<i>Job Complete</i>



PAGE	CUST NO	YARD #	INVOICE DATE
1 of 1	1002852	1718	08/26/2014
INVOICE NUMBER			
91577764			

Pratt (620) 672-1201
 B MURFIN DRILLING
 I PO Box: 288
 L RUSSELL
 L KS US 67665
 T
 O ATTN: ACCOUNTS PAYABLE

J LEASE NAME KLS 1-35
 O LOCATION
 B COUNTY Stafford
 S STATE KS
 I JOB DESCRIPTION Cement-New Well Casing/Pi
 T
 R JOB CONTACT

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE	
40758797	27463		Net - 30 days	09/25/2014	
		QTY	U of M	UNIT PRICE	INVOICE AMOUNT
<i>For Service Dates: 08/22/2014 to 08/22/2014</i>					
0040758797					
171811084A Cement-New Well Casing/Pi 08/22/2014					
Cement 5 1/2" Longstring					
USED FOR <i>IC 103</i> APPROVED <i>[Signature]</i>					
AA2-Cement		175.00	EA	12.75	2,231.25
60/40 POZ		50.00	EA	9.00	450.00
C-41P		42.00	EA	3.00	126.00
Salt		869.00	EA	0.37	325.87
Cement Friction Reducer		50.00	EA	4.50	225.00
C-44		165.00	EA	3.86	637.31
FLA-322		83.00	EA	5.62	466.87
Gilsonite		875.00	EA	0.50	439.89
Mud Flush		500.00	EA	1.13	562.50
Claymax KCL Substitute		5.00	EA	26.25	131.25
"Latch Down Plug & Baffle, 5 1/2" (Blue)		1.00	EA	300.00	300.00
"Cmt. Shoe Packer Type, 5 1/2" (Red)"		1.00	EA	2,775.01	2,775.01
"Turbolizer, 5 1/2" (Blue)"		10.00	EA	82.50	825.00
Cement Scratchers Rotating Type		10.00	EA	37.50	375.00
"5 1/2" Basket (Blue)"		1.00	EA	217.50	217.50
"Unit Mileage Chg (PU, cars one way)"		35.00	MI	3.19	111.56
Heavy Equipment Mileage		70.00	MI	5.25	367.50
"Proppant & Bulk Del. Chgs., per ton mil		364.00	EA	1.65	600.60
Depth Charge; 3001-4000'		1.00	EA	1,620.00	1,620.00
Blending & Mixing Service Charge		225.00	BAG	1.05	236.25
Casing Swivel Rental		1.00	EA	150.00	150.00
Plug Container Util. Chg.		1.00	EA	187.50	187.50
"Service Supervisor, first 8 hrs on loc.		1.00	EA	131.25	131.25
CON IC 103		Z 4250.0001.1	13,893.01	Cement Prod Cg	#1-35

PLEASE REMIT TO: SEND OTHER CORRESPONDENCE TO:
 ICES, LP BASIC ENERGY SERVICES, LP SUB TOTAL 13,492.91
 903 801 CHERRY ST, STE 2100 TAX 400.10
 FORT WORTH, TX 76102 INVOICE TOTAL 13,893.01

*Margd
 has
 WF copies*



BASIC
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61
P.O. Box 8613
Pratt, Kansas 67124
Phone 620-672-1201

FIELD SERVICE TICKET

1718 11084 A

35-22-12

DATE _____ TICKET NO. _____

DATE OF JOB: 8-27-2014		DISTRICT: Pratt, KS		NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/>		PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/>		CUSTOMER ORDER NO.:	
CUSTOMER: Murfin Drilling Co., Inc.				LEASE: KLS				WELL NO. 13	
ADDRESS:				COUNTY: Stafford		STATE: KS			
CITY:				SERVICE CREW: Derrin, Shoun, Aaron G, Aaron B		JOB TYPE: C/NW 5/2 Long String			
AUTHORIZED BY:									
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED			
27283	1					DATE: 8-21	ARR: 4:00	TIME: 4:00	
27463	1					ARRIVED AT JOB: 8-21	ARR: 5:00	TIME: 5:00	
19831	1					START OPERATION: 8-22	ARR: 1:30	TIME: 1:30	
19862	1					FINISH OPERATION: 8-22	ARR: 2:30	TIME: 2:30	
						RELEASED: 8-22	ARR: 3:30	TIME: 3:30	
						MILES FROM STATION TO WELL: 410			

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: *Mark Pribble*
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP105	AA2 Cement	SK	175		2,975.00
CP103	60/40 po2	SK	50		600.00
CC105	C-41 P	Lb	42		168.00
CC111	SSI+	Lb	869		434.50
CC112	Cement Friction Reducer	Lb	50		300.00
CC115	C-44	Lb	165		849.75
CC129	FLA-322	Lb	83		622.50
CC201	Gilsonite	Lb	875		586.25
CF607	Latch Down Plus + BSC 1/2 (Blue)	ES	1		400.00
CF1001	Cementing Shoe Picker Type 5/2 (Red)	ES	1		3,700.00
CF1651	Turbolizer 5/2 (Blue)	ES	10		1,100.00
CF2002	Cement Scraper Rotating Type	ES	10		500.00
CF1901	5/2 Besser (Blue)	ES	1		290.00
CC151	Mud Flush	GSI	500		750.00
C704	Claymax KCL Subs + time	GSI	5		175.00
E100	Unit Milasse Chaser Pickup	Mi	35		148.75
E101	Heavy Equipment Milasse	Mi	70		490.00
E113	Bulic Delivery	Tol/m	364		800.80
CE204	Depth Chaser 3001-4000'	Yhis	1		2,160.00

CHEMICAL / ACID DATA:			

SUB TOTAL		
SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
TOTAL		

SERVICE REPRESENTATIVE: *Darin Kirsch* THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: *Mark Pribble*
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.

BASIC

energy services, L.P.

TREATMENT REPORT

Customer MURKIN Drilling Co. Inc	Lease No.	Date 8-22-2014
Lease KLS	Well # 1-35	
Field Order # 11084	Station Pratt, KS	Casing 5 1/2
		Depth 3978
Type Job CNW / 5 1/2 Long Stings	Formation TD-37000	County S & S Polk
		State KS
		Legal Description 35-22-12

PIPE DATA		PERFORATING DATA		FLUID USED	TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP
3 1/2							5 Min.
Depth	Depth	From	To	Pre Pad	Max		10 Min.
Volume	Volume	From	To	Pad	Min		15 Min.
Max Press	Max Press	From	To	Frac	Avg		
Well Connection	Annulus Vol.	From	To		HHP Used		Annulus Pressure
Plug Depth 3778	Packer Depth	From	To	Flush	Gas Volume		Total Load

Customer Representative MGRIC	Station Manager Kevin Goldrey	Treater Darin Frisnick
----------------------------------	----------------------------------	---------------------------

Service Units	27283	27463	19831	19862					
Driver Names	Darin	Shawn	ASION	ASION					

S-21 Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
9:00 am					On location / S&S Polk Meeting
					Run 3978' 5 1/2 Casing 17H
					Bestest H2
					Tubing - 1, 3, 5, 7, 9, 11, 13, 15, 17, 19
					AA2 Cement, 25% Deformex, 10% SSI+, 3% CFR, 1% GSS Block, 5% FLA-322, SA/SC
					Gilsonite, 15.0 PPS, 1.43 wt, 5.54 wt
8:22					
1:30 pm	400		5	6	Pump 5 bbls water
	400		12	6	12 bbls Flush
	400		5	6	5 bbls water
	700		45	7	mix 1755x cement
					Shut down
					Wash pump & lines
					Release plug
	150		0	4	Start displacement
	400		60	4	Light pressure
	600		80	3	Slow Rate
	1500		90	3	bump plug
					Flow - Hold
					Plug Release
2:30 pm					Job complete

KLS #1-35
 Daily Drilling Report
 Page Two

KLS #1-35 330' FSL 330' FWL Sec. 35-22S-12W 1842' KB							Rank OWWO #1-2 4620FSL 330FWL Sec. 2-23S-12W 1836' KB	
Formation	Sample top	Datum	Ref	Log tops	Datum	Ref	Log tops	Datum
Anhydrite	605	+1237	+2	606	+1236	+1	601	+1235
B/Anhydrite	628	+1214	+1	626	+1216	+3	623	+1213
Stotler				2566	-724	-4	2556	-720
Topeka	2809	-967	-12	2805	-963	-8	2791	-955
Heebner	3181	-1339	-10	3178	-1336	-7	3165	-1329
Lansing	3318	-1476	-10	3314	-1472	-6	3302	-1466
Stark	3533	-1691	-7	3533	-1691	-7	3520	-1684
BKC	3587	-1745	-8	3587	-1745	-8	3573	-1737
Viola	3622	-1780	+32	3612	-1770	+42	3648	-1812
Simpson	3703	-1861	+42	3700	-1858	+45	3739	-1903
Arbuckle	3836	-1994	-19	3832	-1990	-15	3811	-1975
Granite Wsh	4473	-2631	----	4428	-2586	----		
Granite	4589	-2747	----	4440	-2598	----	DNR	
RTD	4615						3900	
LTD				4611			3894	

****CELLS WITH BLUE BACKGROUND ARE THE ONLY CELLS TO BE EDITED****

Fracture Start Date/Time:	9/30/14 10:01
Fracture End Date/Time:	9/30/14 12:04
State:	Kansas
County:	Stafford
API Number:	15-185-23879-0000
Operator Name:	MURFIN DRILLING CO. INC.
Well Name:	KLS #1-35
Federal Well:	
Longitude:	-98.6179049
Latitude:	38.087107
Long/Lat Projection:	NAD27
True Vertical Depth (TVD):	0'
Total Clean Fluid Volume* (gall):	376,278

(e.g. XX-XXX-XXXX-0000)

Additive	Specific Gravity	Additive Quantity	Mass (lbs)
Water	1.00	376,278	3,140,040
Sand (Proppant)	2.65	148,700	148,700
Plexside B7	1.33	20	222
Plexside B7	1.33	20	222
Plexgel Breaker XPA	1.03	72	619
Plexset 730	0.90	56	421
Plexset 730	0.90	56	421
Plexsurf 580 ME	0.95	93	737
Plexsurf 580 ME	0.95	93	737
Plexsick 957	1.11	259	2,399
Claymax	1.09	185	1,683
Plexgel 907L-EB	1.04	0	0
Plexgel 907L-EB	1.04	0	0
Plexgel 907L-EB	1.04	0	0
Plexgel 907L-EB	1.04	0	0
Plexgel 907L-EB	1.04	0	0
Plexgel Breaker 10L	1.10	0	0

Total Slurry Mass (Lbs)
3,296,200

Ingredients Section:

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Mass per Component (LBS)	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments
Water	Operator	Carrier Basic Fluid	Water	7732-18-5	100.00%	3,140,040	95.26241%	
Sand (Proppant)	Uniman	Proppant	Crystalline Silica in the form of Quartz	14808-60-7 / 238-878-4	99.90%	148,551	4.50674%	
Plexside B7	Chemplex	Biocide	Sodium Hydroxide	1310-73-2	4.99%	11	0.00034%	
Plexside B7	Chemplex	Biocide	Alkaline Bromide Salts (non-hazardous)	NA	0.00%	0	0.00000%	
Plexgel Breaker XPA	Chemplex	Slickwater Breaker	Hydrogen Peroxide	7722-84-1	7.00%	43	0.00131%	
Plexset 730	Chemplex	Activator	Methanol	67-56-1	50.00%	210	0.00638%	
Plexset 730	Chemplex	Activator	Alcohol Ethoxylates	Mixture	60.00%	252	0.00766%	
Plexsurf 580 ME	Chemplex	Product Stabilizer	Methyl Alcohol	67-56-1	10.00%	74	0.00224%	
Plexsurf 580 ME	Chemplex	Product Stabilizer	2-Butoxyethanol	111-76-2	50.00%	369	0.01118%	
Plexsick 957	Chemplex	Friction Reducer	Petroleum Hydrotreated Light Distillate	64742-47-8	25.00%	600	0.01820%	
Claymax	Chemplex	Clay Stabilizer	No Hazardous Ingredient	NA	0.00%	0	0.00000%	
Plexgel 907L-EB	Chemplex	Gelling Agent	Distillates, Hydrotreated Light	64742-47-8	50.00%	0	0.00000%	
Plexgel 907L-EB	Chemplex	Gelling Agent	Organophilic Clay	NDA	2.00%	0	0.00000%	
Plexgel 907L-EB	Chemplex	Gelling Agent	Crystalline Silica	14808-60-7	0.06%	0	0.00000%	
Plexgel 907L-EB	Chemplex	Gelling Agent	Alcohol Ethoxylates	34398-01-1	1.00%	0	0.00000%	
Plexgel 907L-EB	Chemplex	Gelling Agent	Guar Gum	9000-30-0	50.00%	0	0.00000%	
Plexgel Breaker 10L	Chemplex	Breaker-Gel	No Hazardous Ingredient	NA	0.00%	0	0.00000%	
								Non-MSDS Component
								Non-MSDS Component
								Non-MSDS Component
								Non-MSDS Component
								Non-MSDS Component
								Non-MSDS Component

*Total Water Volume sources may include fresh water, produced water, and/or recycled water
 ** Information is based on the maximum potential for concentration and thus the total may be over 100%

All component information listed was obtained from the supplier's Material Safety Data Sheets (MSDS). As such, the Operator is not responsible for inaccurate and/or incomplete information. Any questions regarding the content of the MSDS should be directed to the supplier who provided it. The Occupational Safety and Health Administration's (OSHA) regulations govern the criteria for the disclosure of this information. Please note that Federal Law protects "proprietary", "trade secret", and "confidential business information" and the criteria for how this information is reported on an MSDS is subject to 29 CFR 1910.1200(i) and Appendix D.



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 North Water Ste 300 Wichita KS 67202

ATTN: Chuck Schmaltz

KLS #1-35

35-22s-12w Stafford,KS

Start Date: 2014.08.19 @ 06:43:00

End Date: 2014.08.19 @ 14:02:30

Job Ticket #: 60309 DST #: 1

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

Printed: 2014.08.21 @ 16:36:04



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co.
250 North Water Ste 300 Wichita KS 67202
ATTN: Chuck Schmalz

35-22s-12w Stafford,KS
KLS #1-35
Job Ticket: 60309 **DST#: 1**
Test Start: 2014.08.19 @ 06:43:00

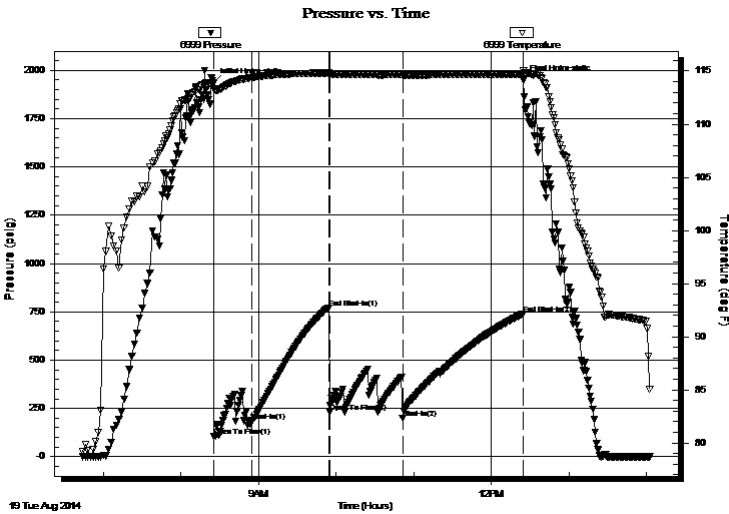
GENERAL INFORMATION:

Formation: **Viola**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 08:25:30
Time Test Ended: 14:02:30
Interval: **3570.00 ft (KB) To 3712.00 ft (KB) (TVD)**
Total Depth: 3712.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Initial)
Tester: Dustin Ellis
Unit No: 3315
Reference Elevations: 1842.00 ft (KB)
1831.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 6999 Inside
Press@RunDepth: 199.41 psig @ 3707.58 ft (KB) Capacity: 5000.00 psig
Start Date: 2014.08.19 End Date: 2014.08.19 Last Calib.: 2014.08.19
Start Time: 06:44:00 End Time: 14:02:30 Time On Btm: 2014.08.19 @ 08:25:00
Time Off Btm: 2014.08.19 @ 12:25:00

TEST COMMENT: IFP 30 Weak building blow built to 2"
ISI 60 No blow back.
FFP 60 Surge that died off.
FSI90 No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1938.35	113.82	Initial Hydro-static
1	103.51	113.34	Open To Flow (1)
30	184.97	114.38	Shut-In(1)
90	768.96	114.81	End Shut-In(1)
90	232.23	114.71	Open To Flow (2)
147	199.41	114.62	Shut-In(2)
240	738.77	114.71	End Shut-In(2)
240	1949.96	115.07	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
65.00	Mud 100%	0.32

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co.
250 North Water Ste 300 Wichita KS 67202
ATTN: Chuck Schmaltz

35-22s-12w Stafford,KS
KLS #1-35
Job Ticket: 60309 **DST#: 1**
Test Start: 2014.08.19 @ 06:43:00

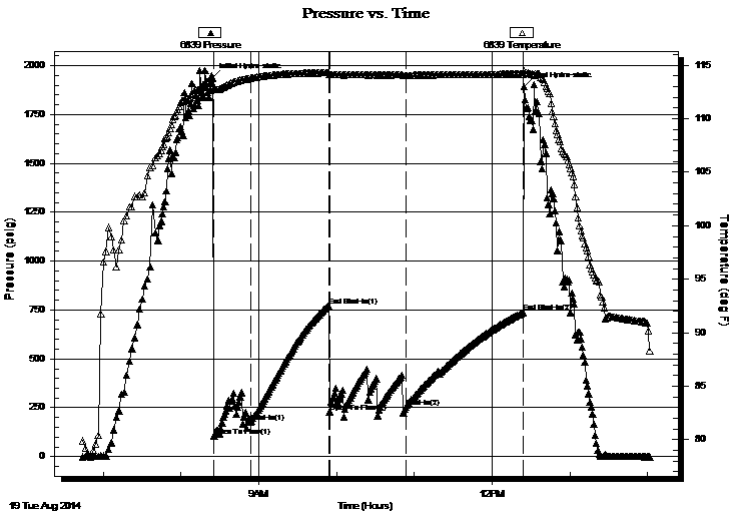
GENERAL INFORMATION:

Formation: **Viola**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 08:25:30
Time Test Ended: 14:02:30
Interval: **3570.00 ft (KB) To 3712.00 ft (KB) (TVD)**
Total Depth: 3712.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Initial)
Tester: Dustin Ellis
Unit No: 3315
Reference Elevations: 1842.00 ft (KB)
1831.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 6839 Outside
Press@RunDepth: 737.63 psig @ 3707.58 ft (KB) Capacity: 5000.00 psig
Start Date: 2014.08.19 End Date: 2014.08.19 Last Calib.: 2014.08.19
Start Time: 06:44:00 End Time: 14:02:00 Time On Btm: 2014.08.19 @ 08:24:30
Time Off Btm: 2014.08.19 @ 12:24:30

TEST COMMENT: IFP 30 Weak building blow built to 2"
ISI 60 No blow back.
FFP 60 Surge that died off.
FSI90 No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1937.89	113.30	Initial Hydro-static
1	103.17	112.81	Open To Flow (1)
29	176.00	113.78	Shut-In(1)
90	769.24	114.28	End Shut-In(1)
90	229.68	114.13	Open To Flow (2)
149	254.06	114.05	Shut-In(2)
240	737.63	114.17	End Shut-In(2)
240	1892.93	114.51	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
65.00	Mud 100%	0.32

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co.
250 North Water Ste 300 Wichita KS 67202
ATTN: Chuck Schmaltz

35-22s-12w Stafford,KS
KLS #1-35
Job Ticket: 60309 **DST#: 1**
Test Start: 2014.08.19 @ 06:43:00

Tool Information

Drill Pipe:	Length: 3299.00 ft	Diameter: 3.80 inches	Volume: 46.28 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: 20000.00 lb
Drill Collar:	Length: 270.16 ft	Diameter: 2.25 inches	Volume: 1.33 bbl	Weight to Pull Loose: 88000.00 lb
			<u>Total Volume: 47.61 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	27.16 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	3570.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	142.58 ft			
Tool Length:	170.58 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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Shut In Tool	5.00			3547.00	
Hydraulic tool	5.00			3552.00	
Jars	6.00			3558.00	
Safety Joint	2.00			3560.00	
Top Packer	5.00			3565.00	
Packer	5.00			3570.00	28.00 Bottom Of Top Packer
Anchor	5.00			3575.00	
Change Over Sub	0.75			3575.75	
Drill Pipe	127.08			3702.83	
Change Over Sub	0.75			3703.58	
Anchor	4.00			3707.58	
Recorder	0.00	6999	Inside	3707.58	
Recorder	0.00	6839	Outside	3707.58	
Bull Plug	5.00			3712.58	142.58 Anchor Tool

Total Tool Length: 170.58



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co.

35-22s-12w Stafford,KS

250 North Water Ste 300 Wichita KS 67202

KLS #1-35

Job Ticket: 60309

DST#: 1

ATTN: Chuck Schmaltz

Test Start: 2014.08.19 @ 06:43:00

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: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 11.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 11300.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
65.00	Mud 100%	0.320

Total Length: 65.00 ft Total Volume: 0.320 bbl

Num Fluid Samples: 0

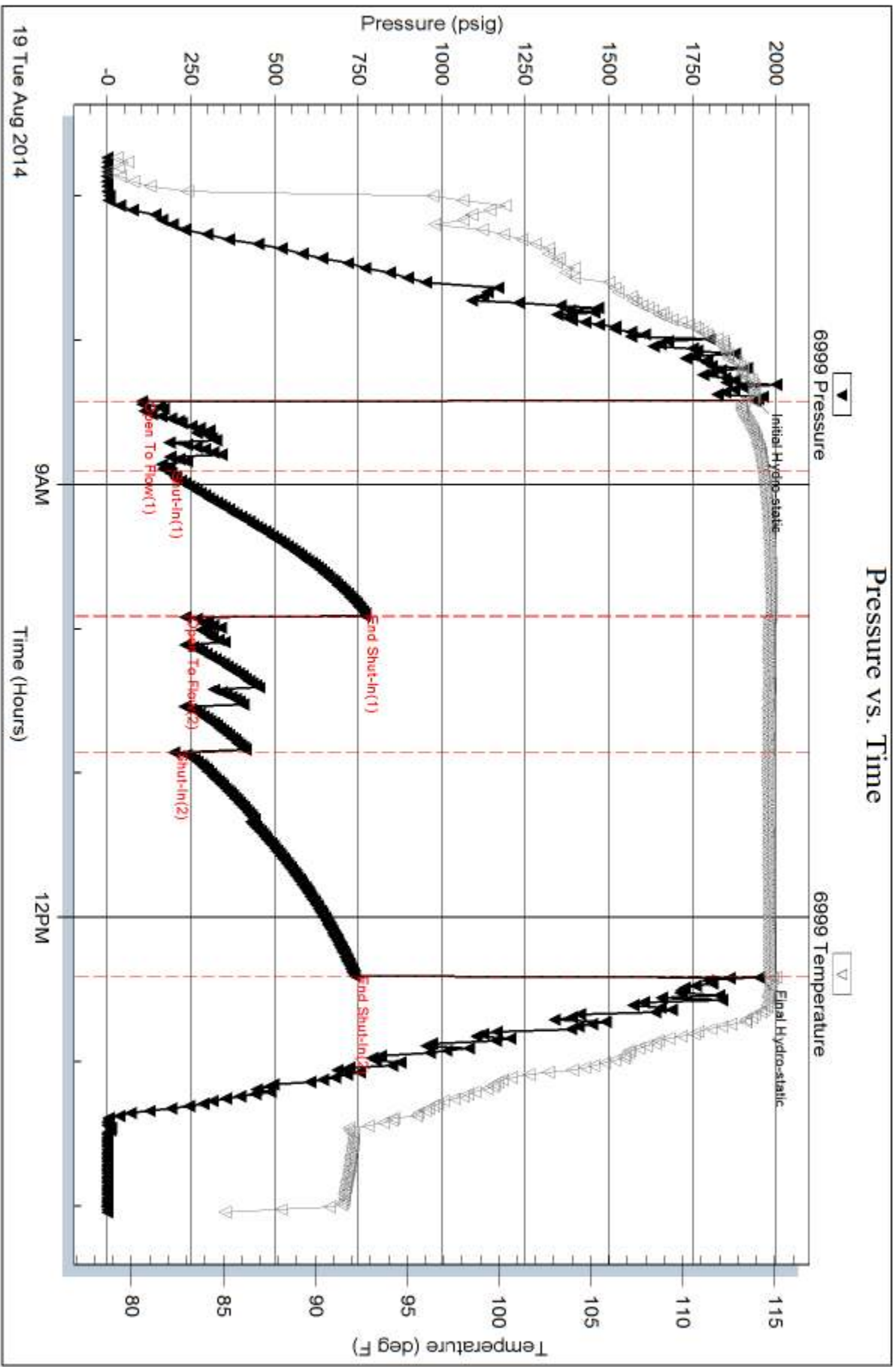
Num Gas Bombs: 0

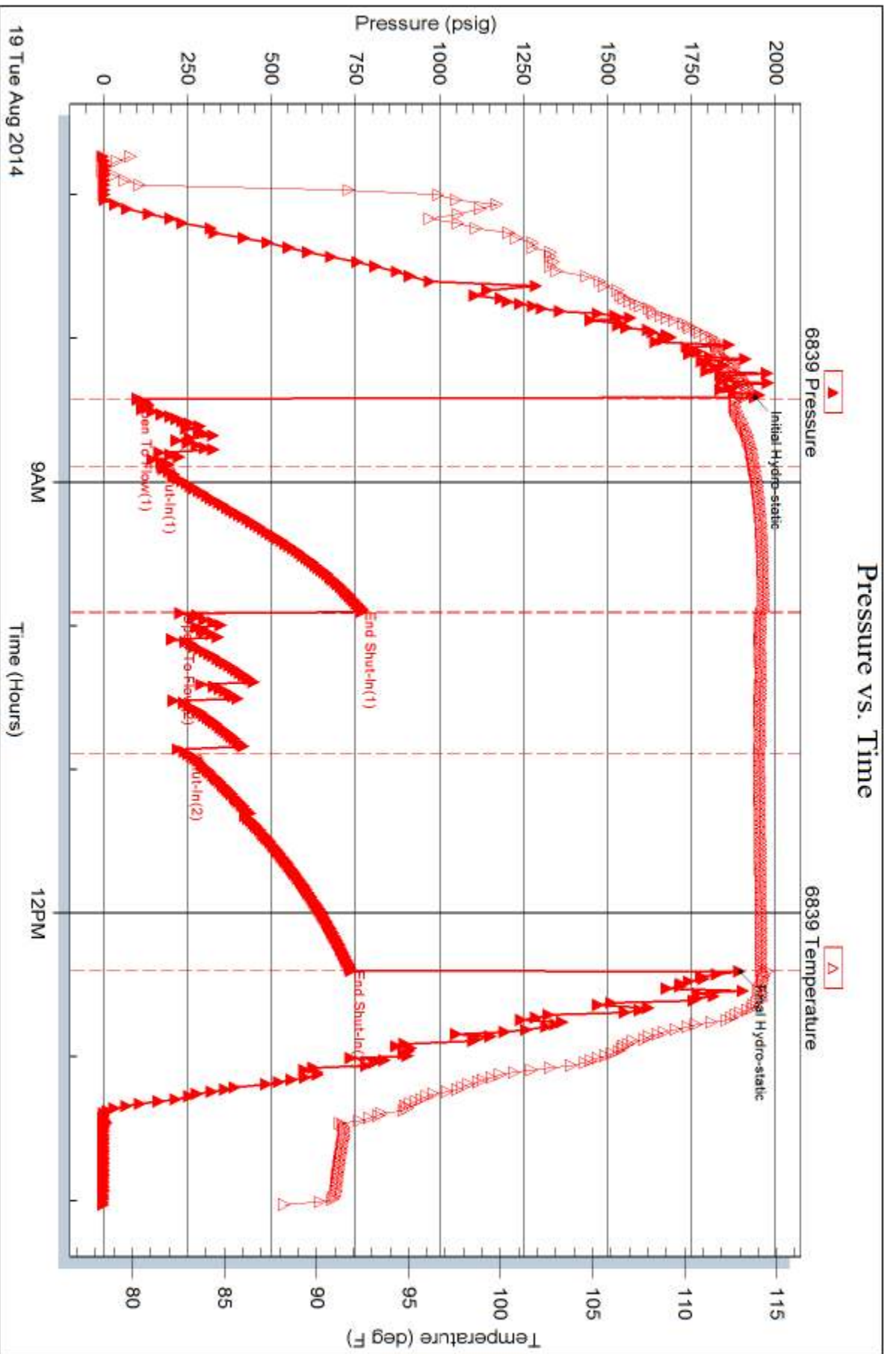
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 60309

Well Name & No. KLS 1-35 Test No. 1 Date 8-19-14
 Company Mulfin Drilling Co Inc Elevation 1842 KB 1831 GL
 Address 250 N Water St 300 Wichita Kansas 67202
 Co. Rep / Geo. Chuck Schmalz Rig Mulfin Rig 21
 Location: Sec. 35 Twp. 22s Rge. 12w Co. Stafford State KS

Interval Tested 3570 3712 Zone Tested Viola
 Anchor Length 142 Drill Pipe Run 3299 Mud Wt. 9.4
 Top Packer Depth 3565 Drill Collars Run 270.16 Vis 53
 Bottom Packer Depth 3570 Wt. Pipe Run 70,000 WL 12.0
 Total Depth 3712 Chlorides 11,300 ppm System LCM 1

Blow Description 1st open weak building blow built to 2 inches.
1st shut in - No blow back
2nd open - surge died off.
2nd shut in - No blow back.

Rec	Feet of	%gas	%oil	%water	%mud
<u>65</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 _____ BHT _____ Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1938 Test 950 T-On Location 6:00am
 (B) First Initial Flow 103 Jars Yes 250 T-Started 6:50am
 (C) First Final Flow 184 Safety Joint Yes 75 T-Open 8:24am
 (D) Initial Shut-In 788 Circ Sub _____ T-Pulled 12:24p
 (E) Second Initial Flow 232 Hourly Standby - T-Out 2:05pm
 (F) Second Final Flow 199 Mileage 60 93 Comments _____
 (G) Final Shut-In 738 Sampler _____
 (H) Final Hydrostatic 1949 Straddle _____

Initial Open 8:24am Shale Packer _____
 Initial Shut-In 8:54am Extra Packer _____
 Final Flow 9:54am Extra Recorder _____
 Final Shut-In 10:54 Day Standby _____
 Accessibility _____
 Sub Total 1368
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Sub Total 0
 Total 1368
 MP/DST Disc't _____

Approved By _____ Our Representative Dustin Ellis

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.

