



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1191374
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: _____

1191374

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
--	---

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: _____ _____
--	--	---

Form	ACO1 - Well Completion
Operator	HERMAN L. LOEB, LLC
Well Name	Forsyth 'B' 2-17
Doc ID	1191374

Tops

Name	Top	Datum
Elgin Sand	3556	-1956
Toronto	3680	-2080
Lansing	3829	-2229
Base Kansas City	4284	-2684
Marmaton	4292	-2692
Miss. Chert	4354	-2754
Kinderhook Shale	4546	-2946
Woodford Shale	4614	-3014
Viola	4646	-3046
Simpson Sand	4770	-3170
Arbuckle	4856	-3256

Form	ACO1 - Well Completion
Operator	HERMAN L. LOEB, LLC
Well Name	Forsyth 'B' 2-17
Doc ID	1191374

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
1	8 foot interval, 9 holes	Shot	4496 - 4504
		Acid; 1000g 15% MCA	4496 - 4504
	CIBP Set	CIBP w/ 2 sxs	4486
1	46 foot interval; 47 holes	Shot	4380 - 4426
		Acid; 2500g 15% MCA	4380 - 4426
		Frac; 10993 BBL SlkWtr	4380 - 4426

Barber

Quality Well Service, Inc.

Invoice

324 Simpson St.
Pratt, KS 67124

Date	Invoice #
1/13/2014	C-1016

Bill To
Herman Loeb Box 524 Lawrenceville, IL 62439-0524

1725
701 FORSY
6438

P.O. No.	Terms	Lease Name
		Forsyth B #2-17

Description	Qty	Rate	Amount
Common	300	15.50	4,650.00T
Gel	6	20.50	123.00T
Calcium	11	53.00	583.00T
Flo-Seal	75	3.70	277.50T
SFC 0-500'	1	600.00	600.00
Handling	317	2.10	665.70
.08 * sacks * miles	3,750	0.08	300.00
LMV	10	3.75	37.50
Heavy Equipment Mileage	10	8.00	80.00
Discount	1,126.7	-1.00	-1,126.70T
Discount	336.64	-1.00	-336.64
Discount Expires after 30 days from the date of the invoice		0.00	0.00
Forsyth B #2-17 Barber Co.			

PAID
46794
JAN 23 2014
SCANNED

Have a great New Year! Thanks for your business!	Subtotal	\$5,853.36
	Sales Tax (7.15%)	\$322.24
	Total	\$6,175.60

QUALITY WELL SERVICE, INC.

6067

Federal Tax I.D. # 481187368

Home Office 324 Simpson St., Pratt, KS 67124

Office 620-727-3410
Fax 620-672-3663

Rich's Cell 620-727-3409
Brady's Cell 620-727-6964

Date	1-10-14	Sec.	17	Twp.	32	Range	12	County	BARBER	State	Ks	On Location	3:00A.M	Finish	6:00
Lease	FORSYTH		Well No.	B 2-17		Location MEDLodge KJ W to GYP Hill Rd									
Contractor	STERLING Dalg #4				Owner LS to Red Rock Rd E! n into To Quality Well Service, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.										
Type Job	Cord				Charge To HERMAN LOEB										
Hole Size	17 1/2		T.D.	265'											
Csg.	13 3/8 55#		Depth	262											
Tbg. Size					Street										
Tool					City State										
Cement Left in Csg.					The above was done to satisfaction and supervision of owner agent or contractor.										
Meas Line					Cement Amount Ordered 300 sx Common										
EQUIPMENT													2% GEL 3% CC 1/4" CF		
Pumptrk	No.	8		MIKE		Common 300									
Bulktrk	No.	9		B		Poz. Mix									
Bulktrk	No.					Gel. 6									
Pickup	No.					Calcium 11									
JOB SERVICES & REMARKS													Hulls		
Rat Hole													Salt		
Mouse Hole													Flowseal 75#		
Centralizers													Kol-Seal		
Baskets													Mud CLR 48		
D/V or Port Collar													CFL-117 or CD110 CAF 38		
Run 6 st's 13 3/8 55# CSG SET @ 262'													Sand		
													Handling 317		
													Mileage 5		
Hook up to csg & Break Circ w/ rig													FLOAT EQUIPMENT		
													Guide Shoe		
													Centralizer		
Mix & Pump 300 sx Common													Baskets		
2% GEL 3% CC 1/4" CF. 15#/gal													AFU Inserts		
													Float Shoe		
O'so 38 bbls total													Latch Down		
Close valve on CSG 200* S:45															
O'200 Circ thru JO3													LMV 5		
Circ CMT TO P.t													Pumptrk Charge 13 3/8		
													Mileage 5 x 2		
Thanks													Tax		
TODD M. KE BEARD													Discount		
Signature <i>Todd M. Ke Beard</i>													Total Charge		

PLEASE CALL AGAIN



6076
701 FORSYTH
60438

PAGE 1 of 1	CUST NO 1007589	INVOICE DATE 01/27/2014
INVOICE NUMBER 1718 - 91396169		

Pratt (620) 672-1201

B HERMAN L LOEB LLC
I PO Box: 838
L LAWRENCEVILLE
L IL US 62439
T
O ATTN: ACCOUNTS PAYABLE

J LEASE NAME Forsyth B 2-17
O LOCATION
B COUNTY Barber
S STATE KS
I JOB DESCRIPTION Cement-New Well Casing/Pi
T JOB CONTACT
E

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
40685816	19905		Net - 30 days	02/26/2014

For Service Dates: 01/22/2014 to 01/22/2014	PAID	UNIT PRICE	INVOICE AMOUNT
0040685816	47196 FEB 06 2014		
171809648A Cement-New Well Casing/Pi 01/22/2014	SCANNED		
Cement 5 1/2" Longstring			
50/50 POZ	250.00 EA	8.25	2,062.49 T
Celloflake	63.00 EA	2.78	174.83 T
Gypsum	1,050.00 EA	0.56	590.63 T
FLA-322	105.00 EA	5.63	590.63 T
Gilsonite	1,500.00 EA	0.50	753.75 T
KCL, Potassium Chloride	566.00 EA	1.13	636.75 T
Claymax KCL Substitute	5.00 EA	26.25	131.25 T
Mud Flush	1,000.00 EA	0.65	645.00 T
"Latch Down Plug & Baffle, 5 1/2" (Blue)"	1.00 EA	300.00	300.00
"Auto Fill Float Shoe 5 1/2" (Blue)"	1.00 EA	270.00	270.00
"Turbolizer, 5 1/2" (Blue)"	12.00 EA	82.50	990.00
"5 1/2" Basket (Blue)"	2.00 EA	217.50	435.00
"Cement Scratchers Cable Type, 5 1/2" "	12.00 EA	56.25	675.00
"Unit Mileage Chg (PU, cars one way)"	40.00 MI	3.19	127.50
Heavy Equipment Mileage	80.00 MI	5.25	420.00
"Proppant & Bulk Del. Chgs., per ton mil	420.00 EA	1.20	504.00
Depth Charge; 4001'-5000'	1.00 EA	1,890.00	1,890.00
Blending & Mixing Service Charge	250.00 BAG	1.05	262.50
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

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	11,778.08
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	399.35
PO BOX 841903	801 CHERRY ST, STE 2100	INVOICE TOTAL	12,177.43
DALLAS, TX 75284-1903	FORT WORTH, TX 76102		

BASICSM

ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

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

FIELD SERVICE TICKET
1718 0000 A

DATE _____ TICKET NO. _____

DATE OF JOB: 1-22-14 DISTRICT: Pratt		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: [Handwritten]		LEASE: [Handwritten]		WELL NO.: 477						
ADDRESS:		COUNTY: BAILO		STATE: KS						
CITY: STATE:		SERVICE CREW: [Handwritten]								
AUTHORIZED BY:		JOB TYPE: [Handwritten]								
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	PM	TIME
3758	1						1-22-14			
						ARRIVED AT JOB				
77636/19905	1					START OPERATION	1-22-14			
						FINISH OPERATION				
70955/19918	1					RELEASED				
						MILES FROM STATION TO WELL				4

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: [Signature] (WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP 104	50/50 PUC	SR	2.00		2,200.00
CF 10	50/50 PUC	SR	5.00		550.00
CC 101	[Handwritten]	13	65		255.10
CC 112	[Handwritten]	13	1050		787.50
CC 120	[Handwritten]	13	105		787.50
CC 20	[Handwritten]	13	15.00		1,005.00
C 700	[Handwritten]	13	500		849.00
CF 607	[Handwritten]	SR	1		400.00
CF 1000	[Handwritten]	SR	1		360.00
CF 105	[Handwritten]	SR	12		1,320.00
CF 111	[Handwritten]	SR	2		580.00
CF 2005	[Handwritten]	SR	12		900.00
C 700	[Handwritten]	SR	5		175.00
CC 151	[Handwritten]	SR	1000		860.00

CHEMICAL / ACID DATA:			

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

SERVICE REPRESENTATIVE: [Handwritten]	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: [Signature]
---------------------------------------	---

FIELD SERVICE ORDER NO.

(WELL OWNER OPERATOR CONTRACTOR OR AGENT)



BASICSM
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

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

FIELD SERVICE TICKET

1718-5000 A

DATE _____ TICKET NO. _____

DATE OF JOB		DISTRICT		NEW WELL <input type="checkbox"/>	OLD WELL <input type="checkbox"/>	PROD <input type="checkbox"/>	INJ <input type="checkbox"/>	WDW <input type="checkbox"/>	CUSTOMER ORDER NO.:
CUSTOMER		ADDRESS		LEASE				WELL NO. 17	
CITY		STATE		COUNTY				STATE	
AUTHORIZED BY				SERVICE CREW					
				JOB TYPE:					
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME
						ARRIVED AT JOB		PM	
						START OPERATION		AM	
						FINISH OPERATION		PM	
						RELEASED		AM	
						MILES FROM STATION TO WELL		PM	

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: _____
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
E 10'	40		170 00
E 10'	80		560 00
E 11'	42		672 00
C 200	400		2,520 00
C 240	200		350 00
C 300	1		250 00
S 000	1		175 00

CHEMICAL / ACID DATA:			

SUB TOTAL		11,778 00
SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
TOTAL		

SERVICE REPRESENTATIVE	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: X
------------------------	---

FIELD SERVICE ORDER NO.

(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

PAID
4/7/96
FEB 06 2013

TREATMENT REPORT

Customer Herman Luvu LLC	Lease No. SCANNEL	Date 1-22-14
Lease F01571n B	Well # 2-17	
Field Order # 9648	Station Pratt	Casing 5 1/2
		Depth 4880
Type Job CRW L S	Formation	County Baird
		State KS
		Legal Description 17-32-12

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size 5 1/2	Tubing Size	Shots/Ft		Actl 250 50/50	Rate 5 GPM	PRESS 570 PSI	ISIP 570 PSI	
Depth 4880	Depth	From	To	Pre Pad	Max 6 # 911			5 Min. 570 PSI
Volume 116.1	Volume	From	To	Pad	Min			10 Min.
Max Press 1500	Max Press	From	To	Frac	Avg			15 Min.
Well Connection PC	Annulus Vol.	From	To		HHP Used			Annulus Pressure
Plug Depth 4865	Packer Depth	From	To	Flush 118	Gas Volume			Total Load

Customer Representative	Station Manager	Treater
Service Units 27556	77656	19905
Driver Names MATTIA	McGRAN	Pygling

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
8:50 AM					ON LOCATION / SAFETY Meeting
10:25					RUN 5 1/2 15.5 # casing
					CON ON 1, 2, 3, 7, 10, 11, 12, 13, 17, 21, 25, 24
					Blister on 2, 13
11:40					Circulate 30 minutes 60 psi
1:15					Casing on bottom
1:20					Work on to casing / Break circ w key
2:51	100		5	5	PUMP 5 BBL H2O
2:53	200		24	5	PUMP 24 BBL mud flush
2:57	300		5	5	PUMP 5 BBL H2O
2:58	400		48	5	MIX 200 SB 50/50 Puz
3:10			4	3	WASH PUMP + LINES
3:13	200			6	Release Plug / Start 270 KCL displacement
3:28	400		75	5.5	Lift pressure
3:35	500		105	4	slow rate
3:40	800/1500		118		Plug down. PSE TO 1500. (release) + hold
			7/3		Plug RPT + Monitor hole
					Circ thru job
					Job complete
					THANK YOU!
					MIKE MATTIA

LITHOLOGY STRIP LOG

WellSight Systems

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

Well Name: Forsyth 'B' #2-17
Location: 2300' FSL & 900' FEL, Sec. 17-T32S-R12W, Barber Co., KS.
Licence Number: 15-007-24123-00-00
Spud Date: 1/9/2014
Surface Coordinates: 2300' FSL & 900' FEL, Sec. 17-T32S-R12W
Region: Medicine Lodge North
Drilling Completed: 1/20/2014

Bottom Hole Same as above
Coordinates:
Ground Elevation (ft): 1591' K.B. Elevation (ft): 1600'
Logged Interval (ft): 3150' To: 4890' Total Depth (ft): 4890'
Formation: Arbuckle at Total Depth
Type of Drilling Fluid: Freshwater/Gel to 3089'; Chemical Gel 3089' to 4890'

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

OPERATOR

Company: Herman L. Loeb, LLC.
Address: P.O. Box 838
Lawrenceville, IL. 62439-0838

GEOLOGIST

Name: Jon D. Christensen
Company: Consulting Petroleum Geologist
Address: 9002 W. Silver Hollow St.
Wichita, KS. 67205-8856

Cores

None Taken

DSTs

DST #1(Snyderville Sand/Toronto) 3634' - 3682'(Corrected Depths to Log) Test Times 15"-45"-30"-60" IFP Weak Blow built to 1", FFP Weak Surface Blow throughout, no Blowback on SI's; REC: 5' Drlg. Mud, no shows of oil or gas; IFP 12-12#, ISIP 85#, FFP 13-14#, FSIP 48#, IHP 1773#, FHP 1702#, BHT 106 Deg. F.

DST #2("Upper" Miss. Chert) 4359' - 4384'(Corrected Depths to Log) Test Times 15"-45"-30"-60" IFP Weak 1" Blow, FFP Weak 0.25" Blow, no Blowback on SI's; REC: 10' Drlg. Mud, no shows of oil or gas; IPF 13-19#, ISIP 58#, FFP 17-22#, FSIP 49#, IHP 2181#, FHP 2156#, BHT 117 Deg. F.

DST #3("Lower" Miss. Chert) 4384' - 4424'(Corrected Depths to Log) Test Times 15"-45"-30"-60" IFP Weak 1" Blow, FFP Weak 1.5" Blow, no Blowback on SI's; REC: 10' Drlg. Mud, no shows of oil or gas; IFP 17-26#, ISIP 70#, FFP 22-24#, FSIP 66#, IHP 2220#, FHP 2196#, BHT 115 Deg. F.

DST #4(Basal Miss. Chert) 4483' - 4511'(Corrected Depths to Log) Test Times 15"-45"-30"-60" IFP Weak 0.5" Blow, FFP Weak 1" Blow, no Blowback on SI's; REC: 20' SL Oil Specked Mud, no gas, no water; IFP 14-20#, ISIP 86#, FFP 20-22#, FSIP 67#, IHP 2235#, FHP 2268#, BHT 119 Deg. F.

Comments

1/9/14 MIRU Sterling Drilling Rig #4, Spud at 5:30 PM; 1/10/14 TD. 265' - WOC; 1/11/14 Drilling at 1178'; 1/12/14 TD. 2160' -Circ. for Plugged Bit; 1/13/14 Drilling at 2565'; 1/14/14 Drilling at 3395'; 1/15/14 TD. 3680' - TOH with DST #1; 1/16/14 Drilling at 4204'; 1/17/14 TD. 4380' - TIH after DST #2; 1/18/14 TD. 4420' - Rig Repairs; 1/19/14 TD. 4508' - DST #4; 1/20/14 Drilling at 4704' - reached TD. 4890' at PM.; 1/21/14 RTD. 4890', LTD. 4894' - Logging(Nabors, Co.),

Set new 13 3/8"(55#) Surface Casing at 262' with 300 sacks cement(Quality Cementing). Cement did Circulate. PD. 5:45 AM. 1/10/14.

Set new 5 1/2"(15.5#) Production Casing at 4880' with 200 sacks of "Loeb Blend" cement(Basic Energy Services). PD. 3:45 AM. on 1/22/14.

Surveys: 0.75 Deg. at 265'(Surface Casing); 0.50 Deg. at 1146'(Wireline Survey); 0.50 Deg. at 2160'(Bit Trip); 1.25 Deg. at 3249'(Wireline Survey); 0.50 Deg. at 3680'(DST #1); 0.50 Deg. at 4380'(DST #2); 0.75 Deg. at 4890'(RTD).


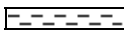

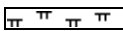
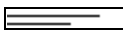
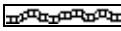


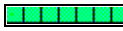

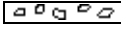


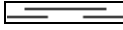

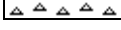


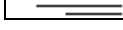

Pipe Strap at 3680'(DST #1): Strap 0.15' Long to the Board, no correction made to the Board.

After review of the Nabors Co. Logs, structural position and positive indications of commercial amounts of hydrocarbons, the operator elected to set new 5 1/2" Production Casing for completion in the Miss. Chert section. Prior to Abandonment, the Simpson Sand should be perforated and tested from 4787' - 4790'(log depths).








































































LOG TOPS: Howard 3166(-1566), Elgin Sand 3556(-1956), Heebner Shale 3660(-2060), Snyderville Sand 3672(-2072), Toronto 3680(-2080), Lower Douglas Sand 3812(-2212), Brown Lmst. 3824(-2224), Lansing 3829(-2229), K.C. Drum 4062(-2462), Stark Shale 4192(-2592), Base Kansas City 4284(-2684), Marmaton 4292(-2692), Miss. Chert 4354(-2754), Kinderhook Shale 4546(-2946), Woodford Shale 4614(-3014), Viola 4646(-3046), Simpson Shale 4756(-3156), Simpson Sand 4770(-3170), Arbuckle 4856(-3256).

NOTE: This log was shifted downward by 2' to 4' for correlation purposes with the Nabors Co. Logs.

ROCK TYPES

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

ACCESSORIES

MINERAL		FOSSIL	
 Anhy	 Gyp	 Algae	 Ostra
 Arggrn	 Hvymin	 Amph	 Pelec
 Arg	 Kaol	 Belm	 Pellet
 Bent	 Marl	 Bioclst	 Pisolite
 Bit	 Minxl	 Brach	 Plant
 Brecfrag	 Nodule	 Bryozoa	 Strom
 Calc	 Phos	 Cephal	
 Carb	 Pyr	 Coral	STRINGER
 Chtdk	 Salt	 Crin	 Anhy
 Chtlt	 Sandy	 Echin	 Arg
 Dol	 Silt	 Fish	 Bent
 Feldspar	 Sil	 Foram	 Coal
 Ferrpel	 Sulphur	 Fossil	 Dol
 Ferr	 Tuff	 Gastro	 Gyp
 Glau		 Oolite	 Ls
			 Mrst
			TEXTURE
			 Sltstrg
			 Ssstrg
			 Boundst
			 Chalky
			 Cryxln
			 Earthy
			 Finexln
			 Grainst
			 Lithogr
			 Microxln
			 Mudst
			 Packst
			 Wackest

OTHER SYMBOLS

- POROSITY**
- Earthy
 - Fenest
 - Fracture
 - Inter
 - Moldic
 - Organic
 - Pinpoint

Vuggy

- SORTING**
- Well
 - Moderate
 - Poor

- ROUNDING**
- Rounded
 - Subrnd
 - Subang
 - Angular

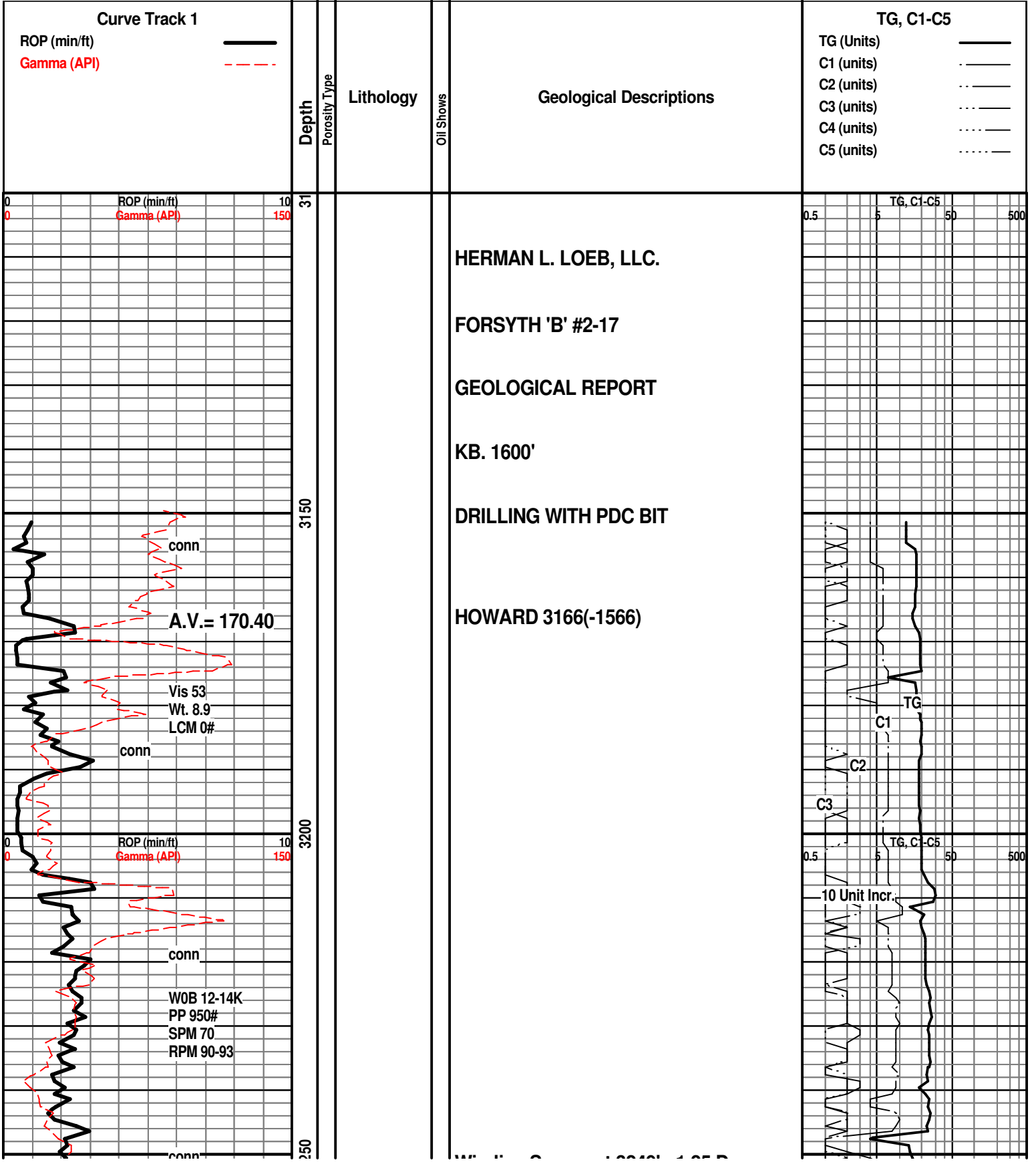
OIL SHOW

- Even

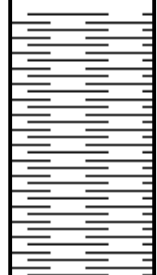
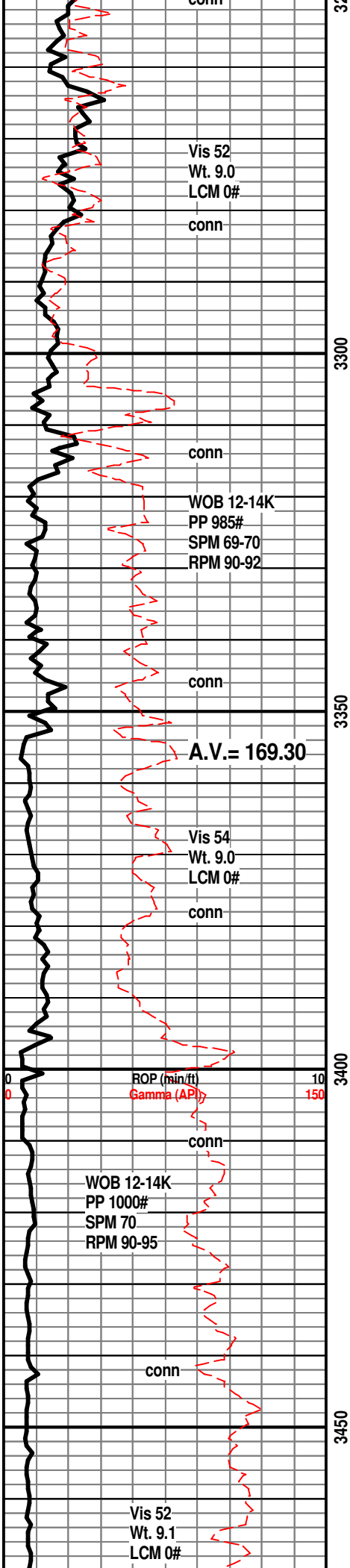
- Spotted
- Ques
- Dead

- INTERVAL**
- Core
 - Dst

- EVENT**
- Rft
 - Sidewall

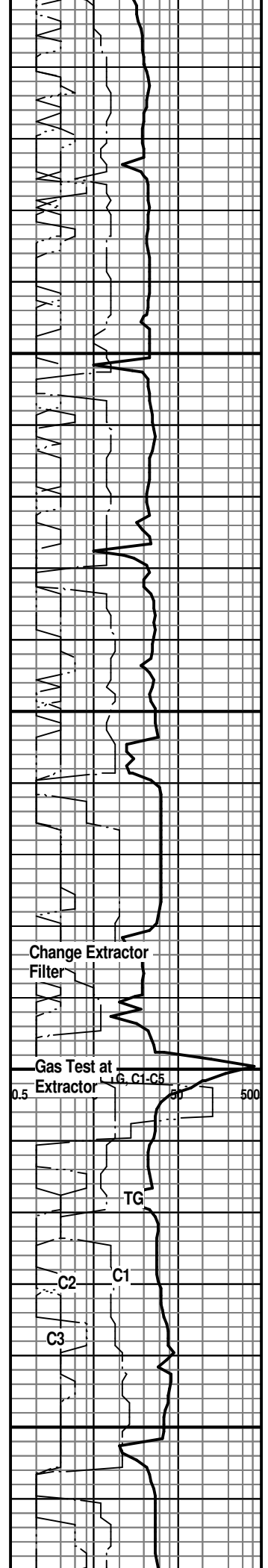


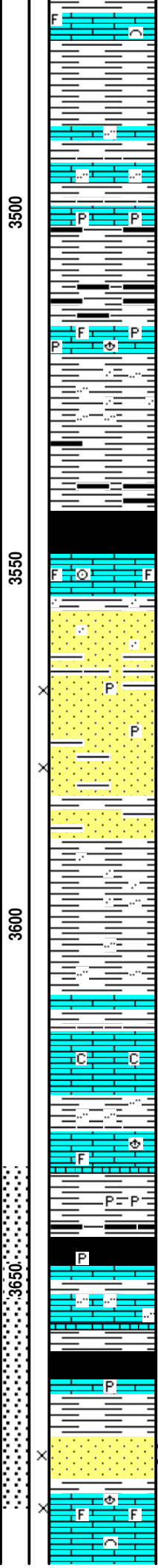
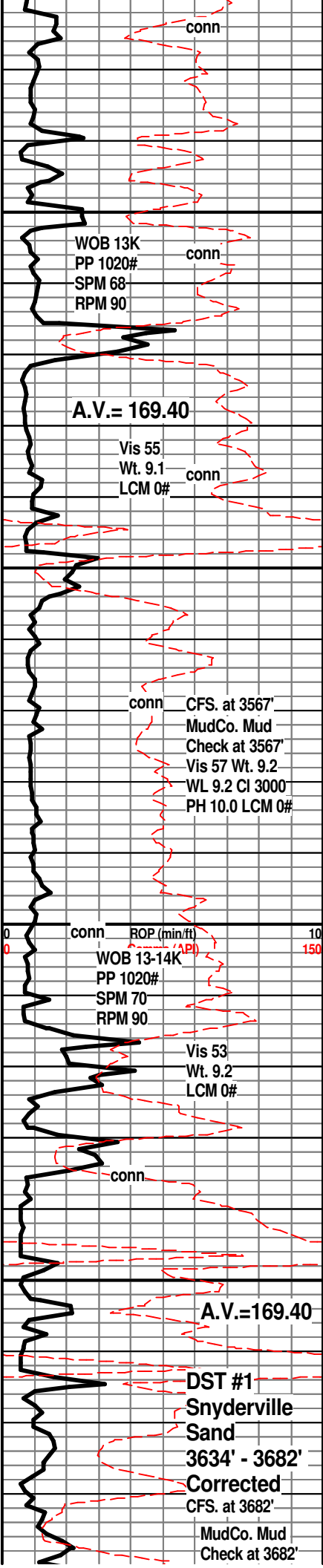
Wireline Survey at 3249' = 1.25 Degree deviation



SH; med to dk gy, platy, rarely silty

20' Wet and Dry Samples at 3460'





LM; med to dk brn, hd, micritic, occ foss

SH; med to dk gy, platy

LM; med to dk brn, some gritty text - silty ip, most dense

LM; med to dk gy, gy brn, dense, pyr ip.

SH; dk gy - blk, carb ip, platy

LM; med brn, dense, foss ip, hd, scat pyr

SH; med gy, silty to occ sandy, soft ip.

SH/COAL; dk brn, blk, carb ip, trc gas bubbles

SH/COAL; blk, v. dk brn, carb, gassy ip.

LM; lt to med brn/gy brn, foss, occ cse xln, most well cem, dull yel fluor, no stn or odor, ns.

ELGIN SAND 3556(-1956)

SS; lt gy, most f gr qtz, clusters, argil ip, mica, poor to gd intergran por, subrnd gr, rare pyr, no fluor, no stn or odor, no gas kick

SS; lt gy, vf to fgr qtz, clusters, fri ip, fair to occ gd intergran por, interbdd v. mica-argil ss, grading into sandy sh, no fluor, ns.

SH; lt gy, silty to occ sandy, platy

LM; med to dk brn, hd, micritic, blocky, interbdd tan/lt brn fxltn partly chalky lmst, no vis por, ns.

SH; med gy, gy grn, silty ip.

LM; lt to med brn, tan, foss ip, most well cem, dull yel min fluor, ns.

SH; dk gy - blk, platy, scat pyr, trc gas, soft ip.

LM; med to dk brn, hd, foss ip, trc gritty text lmst, no vis por, no fluor, ns.

HEEBNER SHALE 3660(-2060)

SH; blk, carb, soft to blocky, trc gas

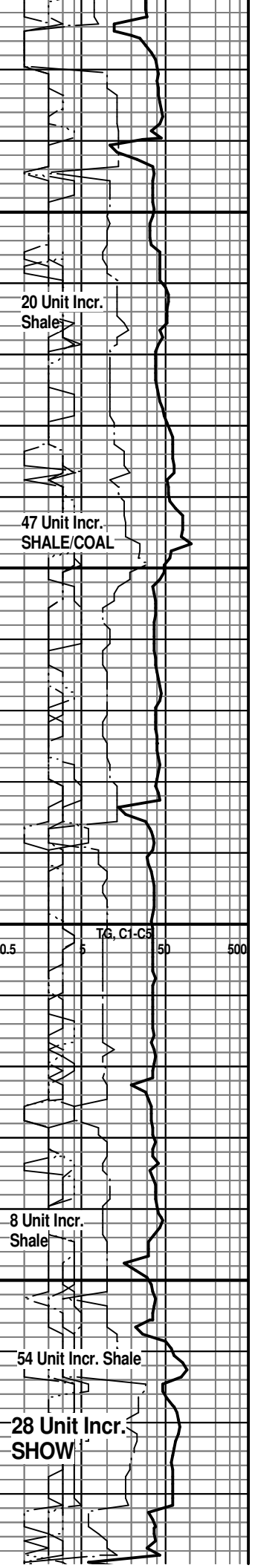
SNYDERVILLE SAND 3672(-2072)

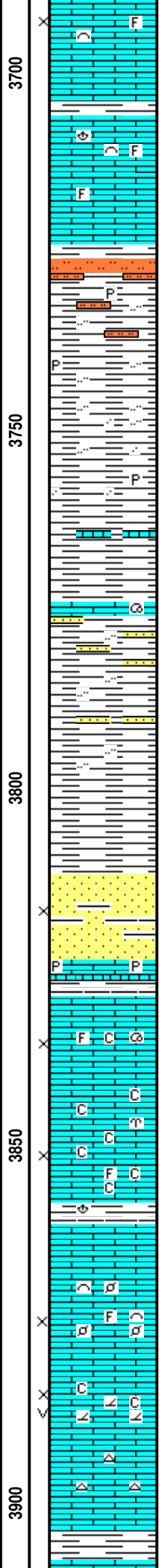
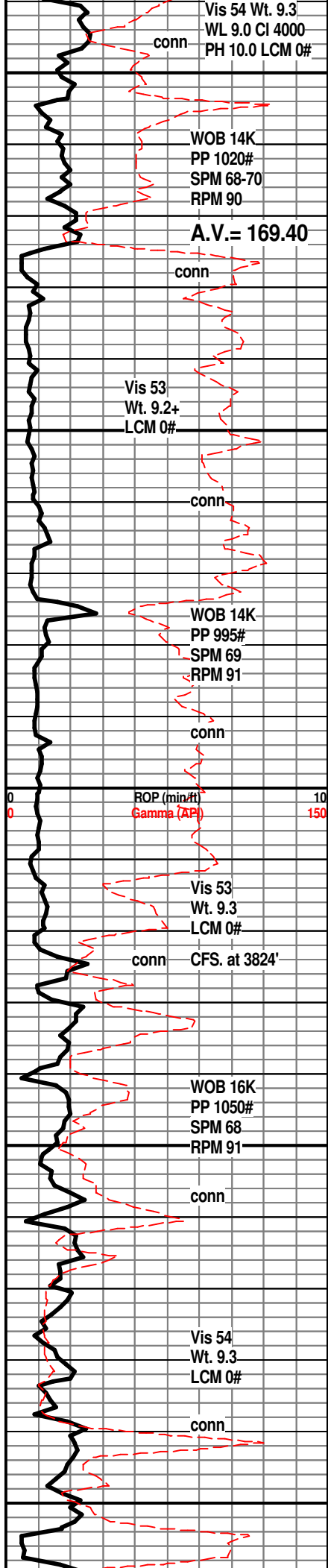
SS; lt gy, lt brn(oil stn), pred. vf gr qtz, clusters, few clusters w/spotted lt brn oil stn, few gas bubbles, SSFO, v. faint odor, instant cut when crushed(10-15% of sample with show)

TORONTO 3680(-2080)

DST #1: Snyderville SS. 3634' - 3682'

LM; tan to lt brn, foss, scat poor interpart por, lt yel min





fluor only, no vis stn, no odor, ns.

LM; tan to buff, cream, foss ip, trc poor interpart por, occ cse spar calc, med/brite yel min fluor, no stn or odor, no gas kick

LM; off wh, buff, lt gy, foss ip, most dense, blocky, v. dull yel to no fluor, no vis por, ns.

DOUGLAS SHALE 3724(-2124)

SH; lt to med gy, silty w/interbdd mica sltst, occ pyr

SH; med gy, platy, silty to occ sandy, rare pyr

LM; med brn, gy brn, dense, foss ip.

SH; med gy, silty to occ sandy, interbdd lt gy vf gr qtz ss strngs, tite

LOWER DOUGLAS SS 3812(-2212)

SS; lt/med gy, vf. to f gr qtz, clusters, abnt mica, fair/gd intergran por, fri, no fluor, no vis oil stn, no odor, no sample shows, some argil

BROWN LMST. 3824(-2224)

LANSING 'A' 3829(-2229)

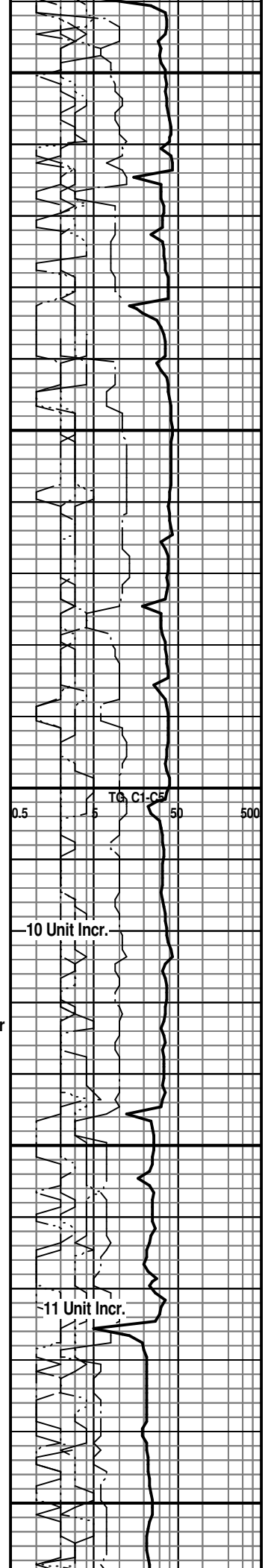
LM; off wh, tan, buff, f to med xln ip, scat foss mat, poor interxln por, dull to lt yel min fluor, ns.

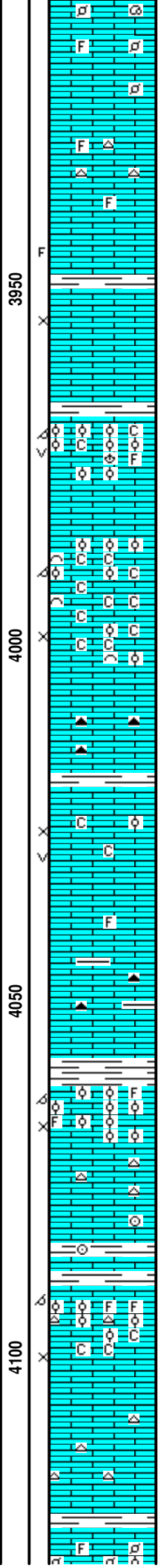
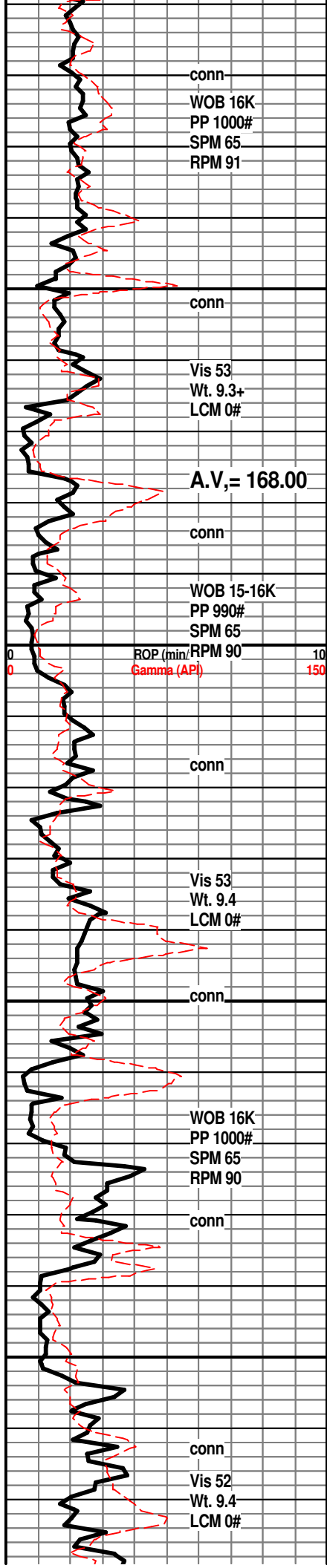
LM; off wh, lt gy, tan, f to med xln w/occ foss mat, interbdd soft chalk and chalky mtx, dull yel min fluor, no vis stn, no odor, ns.

LM; lt brn, buff, tan, f to med xln, scat well cem foss mat/occ foss hash w/pellets, interbdd med xln chalky lmst w/poor interxln por, dull yel fluor, no vis stn, no odor, no sample shows

LM; tan to lt brn, buff, foss ip w/some sucrosic text, partly dolomitic, chalky mtx, gd interpart w/scat vug por, lt yel min fluor, no stn, ns.

SH; med to dk gy, fiss, soft





LM; tan to buff, lt brn, fxln w/scat foss mat, most well cem, no vis por, no stn, ns.

LM; tan to lt brn, foss ip, most dense, interbdd gy to off wh cht, no vis por, no fluor, ns.

LM; tan to med brn, scat cse spar calc xtals, poss frags, med yel min fluor, no odor, ns.

LM; tan, off wh, lt brn, f to med xln w/scat spar calc xtals, fair interxln por, lt yel min fluor, no stn or odor, ns.

LM; lt brn, buff, foss - oolitic, well dev. oomoldic w/vug por, lt yel min fluor, minor chalky mtx, no stn or odor, ns.

LM; tan to buff, cream, highly foss w/scat oolitic lm, poor to fair interpart/scat moldic por, abnt soft chalk and chalky mtx, med yel min fluor, no stn or odor, no gas kick

LM; med brn, hd, blocky, scat smoky cht, tite

LM; tan to buff, gran to med xln, fair to gd interxln w/occ vug por, lt yel fluor, rare chalky mtx, no stn or odor, ns.

LM; med brn, occ dk gy brn, argil ip, hd, scat dk gy cht, tite

K.C. DRUM 'H' 4062(-2462)

LM; lt brn, tan, oolitic, small to occ med size moldic por, abnt compact "stacked" ooids w/fair interpart/moldic por, lt yel min fluor, no stn or odor, no gas kick

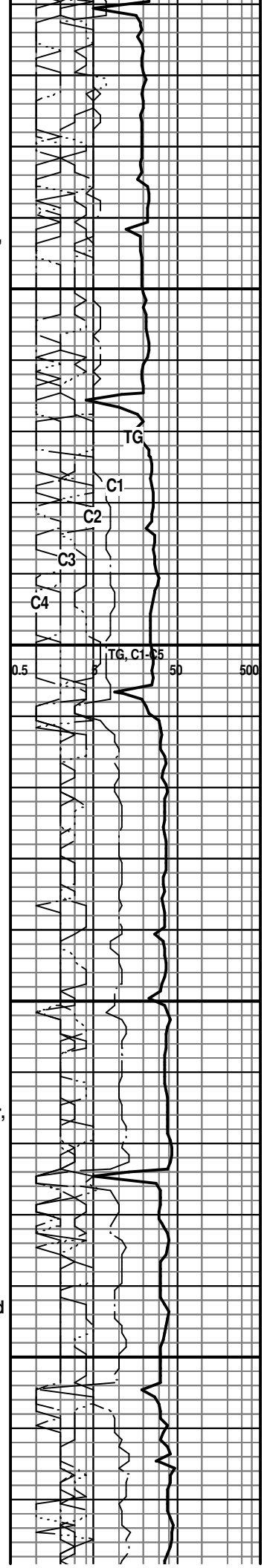
LM; dk brn, mottled text, hd, scat gy cht

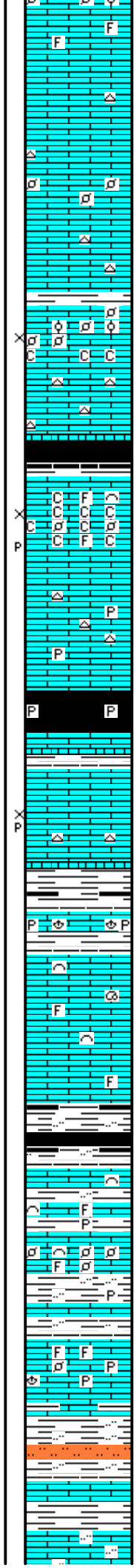
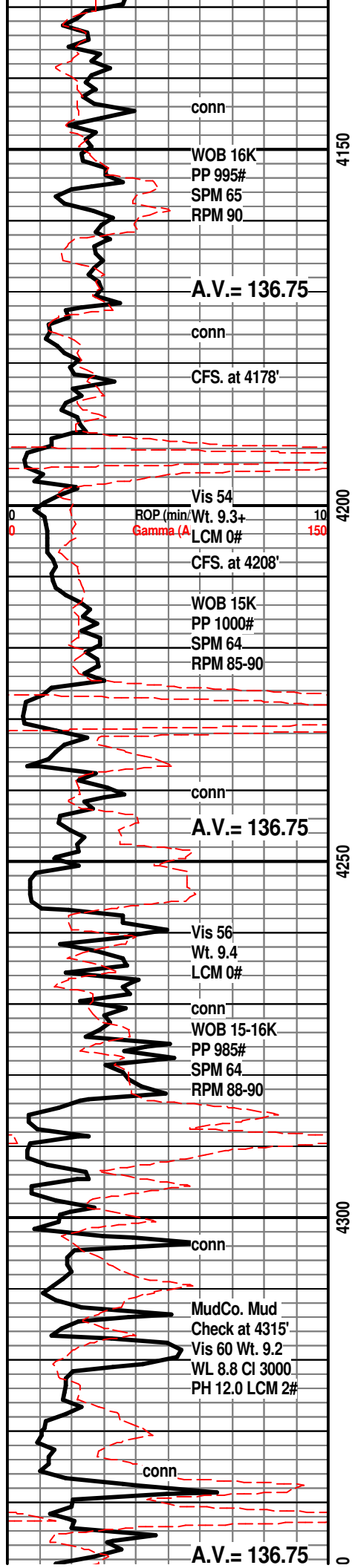
SH; dk gy, platy, foss ip.

LM; lt brn, highly foss - partly oolitic, most small to med size oolites, fair oomoldic por, scat gy oolitic cht, interbdd gran to cse xln lmst w/partly chalky mtx, dull yel fluor, no stn or odor, no gas kick

LM; lt to med brn, hd, most micritic, scat off wh to gy cht, no vis por, ns.

SH; med gy, gy grn, platy





LM; tan to cream, lt brn, foss w/scat pellets/ooids w/scat foss hash, most well cem,

LM; tan to lt brn, foss ip, scat small pellets, much dense micrite, no vis por, v. dull yel min fluor, no stn or odor, ns.

LM; tan to lt brn, foss - finely pelletal, rare ooids, poor to fair interpart por, partly chalky mtx, no fluor, no stn or odor, no sample shows

STARK SHALE 4192(-2592)
SH; blk, carb ip, trc gas bubbles

SWOPE 4196(-2596)
LM; tan to off wh, buff, foss w/poor to fair interpart por, occ p-p por, abnt wh soft chalky and chalky mtx, dull to lt yel min fluor, no stn or odor, no gas kick

LM; tan to lt brn, hd, most micritic, scat pyr, minor off wh/gy cht, no vis por, ns.

HUSHPUCKNEY SHALE 4226(-2626)
SH; blk, carb, gassy, occ pyr, blocky

HERTHA 4232(-2632)
LM; tan to lt brn, f to med xln ip w/fair interxln and p-p por, interbdd hd lt/med brn dense micrite, scat lt yel min fluor, no stn, no apparent gas kick, occ gy spicular cht, ns.

SH; gy grn, dk gy - blk, platy

LM; dk brn, pyr, v. hd, scat well cem foss, tite

LM; tan to lt brn, foss ip, most well cem, rare gy cht, interbdd hd brn micrite, no vis por, dull yel min fluor, no stn or odor, ns.

BASE KANSAS CITY 4284(-2684)
SH; grn, gy grn, blk, pyr ip, occ silty

MARMATON 4292(-2692)
LM; lt to med brn, foss ip, thinly bdd, interbdd w/grn to gy grn fiss sh, occ pyr

LM; tan to lt brn, foss w/well cem hash/pelletal mat, lt yel min fluor, no vis stn, no odor, ns.

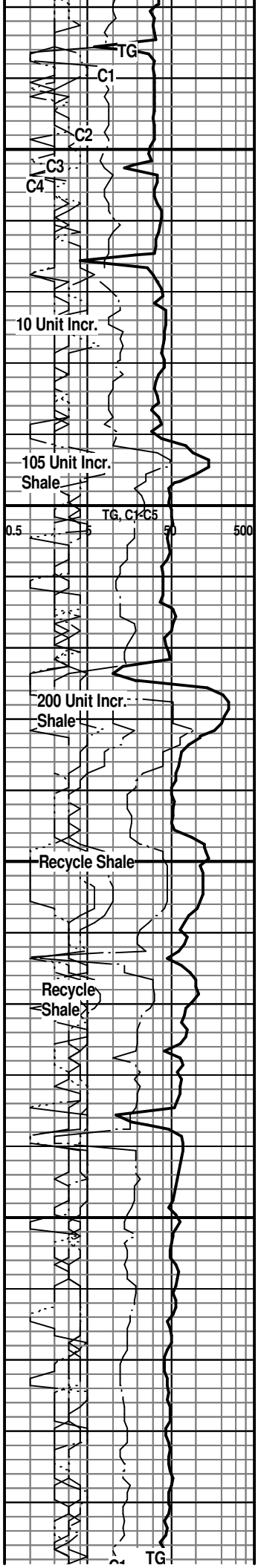
SH; grn, silty ip, platy, occ pyr

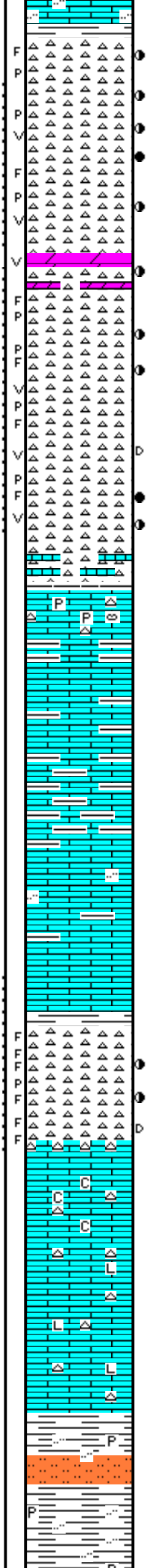
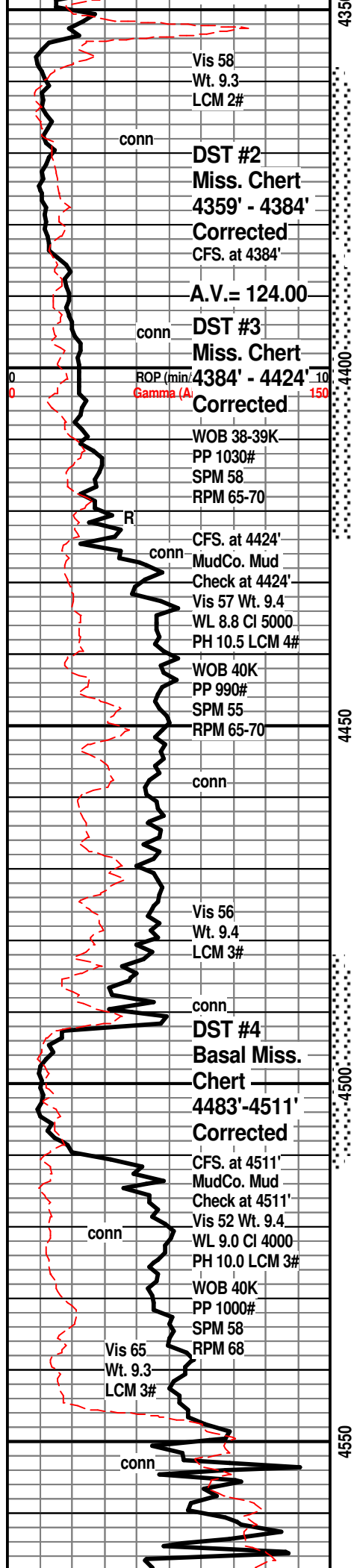
LM; tan to buff, lt brn fxln w/scat foss mat, blocky, occ pyr, no vis por, dull to lt yel fluor, no stn or odor, no gas kick, interbdd grn foss to argil lmy sh

SH; grn, gy grn, brn, silty w/interbdd sltst.

LM; tan to lt brn, rare lt gy brn, hd, micritic, tite

LM; lt to med brn, occ gritty text - silty to sandy ip, hd,





no vis por, no fluor, ns.

MISS. CHERT 4354(-2754)
CHT; wh, opaque to transl, fresh and tripolite, frags evident w/p-p por, sev. pcs. w/med brn oil stn, SFO & gas bubbles, fair odor, med yel fluor

CHT; wh, lt/med brn(oil stained) tripolite, fair vug and p-p por, spotted to even brn stn, SFO, gas bubbles, med yel fluor, fair gassy odor, gd cut

CHT; wh/med brn, most tripolite(80% trip, 20% fresh), much even oil stn, gd odor, med/brite yel fluor, SSFO, few pcs. bleeding oil drops

DST #2: Miss. Chert 4359' - 4384'
DOL; tan, med rhombic, scat vug por, lt brn oil stn, brite yel fluor, gd cut, fair odor, cherty

CHT; wh, lt brn, spotted med brn stn, trip and fresh(est 25% trip, 75% fresh), SSFO, few gas bubbles, vis frags, occ p-p por, fair odor

CHT; wh, opaque, trip and fresh, dk brn spotted live oil stn, rare blk stn, fair odor, med/brite yel fluor, sev. pcs bldg oil/gas, frags w/occ vug por

CHT; wh, opaque, most fresh(90%), frags w/scat live and dead tar/gils, sev. pcs bleeding oil/gas, occ vug por, fair odor, med/brite yel fluor

CHT; wh, med brn, pale grn, fresh and trip, incr. oil stn, sev. gas bubbles, gd odor, SFO, scat vugs/fracs, med/brite yel fluor, gd cut, lmy ip.

DST #3: Miss. Chert 4384' - 4424'
MISSISSIPPI LMST. 4431(-2831)
LM; lt to med brn, pale grn, dense, scat pyr, occ cherty w/sponge spicules, no vis por, no fluor, ns.

NOTE: Switched to Button Bit after DST #2 and drilled to TD. with Button Bit

LM; red, red brn, occ pink, argil, dense ip, interbdd lmy sh, no fluor, no stn, ns.

LM; off wh, tan, f to med xln, hd, blocky, no vis por, no fluor, ns.

BASAL MISS. CHERT 4492(-2892)
CHT; wh, lt gy, tan, nearly all fresh cht, sev. frags w/live oil stn on few frac faces, weath edges w/p-p por/live lt brn oil stn, trc gas bubbles, lt yel fluor, some blk tar/gils also, no odor

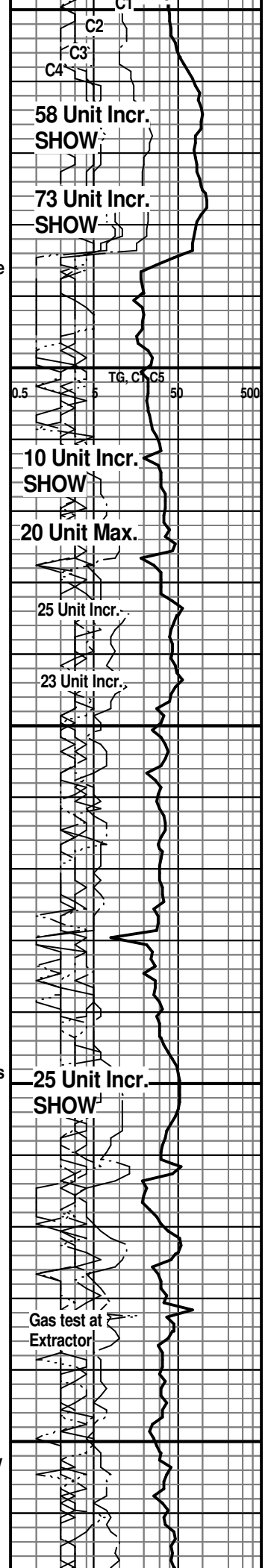
CHT; wh, off wh, trip and fresh(15% trip), v. spotted lt brn oil stn, trc gas bubbles, frags vis, dull yel to no fluor, questionable odor

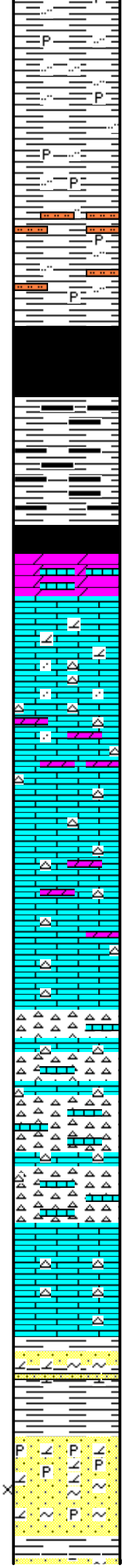
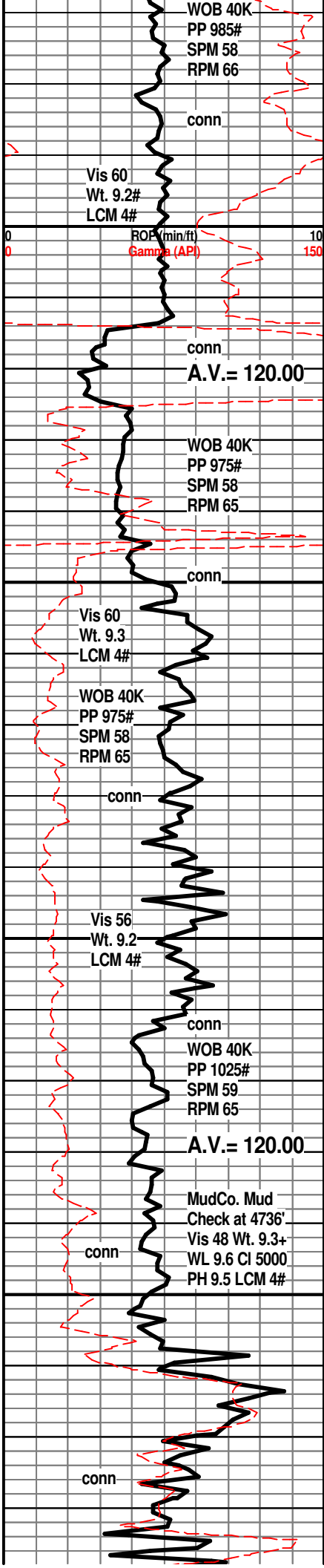
DST #4: Basal Miss. Chert 4483'-4511' Corrected Depths to Log

LM; tan to lt brn, buff, fxln ip, scat soft chalky mtx, no vis por, cherty ip, tite

LM; tan to med brn, dense, litho, occ wh/gy cht

KINDERHOOK SHALE 4546(-2946)
SH; med gy, gy grn, silty ip, firm, rare pyr, interbdd lt gy sltst.





SH; med gy, gy grn, silty, occ pyr

SH; med gy, occ dk gy, silty, platy, scat pyr

WOODFORD SHALE 4614(-3014)

SH; v. dk brn - blk, carb, hydrocarbon odor, occ "speckled" yel fluor, trc gas when broken

SH; dk brn, occ dk gy brn, scat carb strks, most soft

SH; v. dk brn - blk, carb, gas odor

VIOLA 4646(-3046)

LMY DOL; lt gy, cse xln, partly dolomitic, most dense - blocky, no vis por, no fluor, ns.

LM; lt gy, tan, lt brn, sandy/gritty text, well cem, trc lt brn sucrosic dolo, no vis por, no fluor, scat tan to dove gy cht, ns.

LM; tan to lt gy, lt brn, med to cse xln, well cem, interbdd dolomitic lmst, rare lt gy/tan fresh cht, no vis por, no fluor, ns.

CHT & CHTY LM; med gy, cse xln, very cherty w/abnt brn and gy fresh cht, blocky, some speckled cht, no vis por, no fluor, ns.

CHT; med brn, rare lt gy, fresh, blocky, hd, interbdd cherty lmst.

LM; med brn, some cse xln to micritic, hd, no vis por, cherty ip, no fluor, ns.

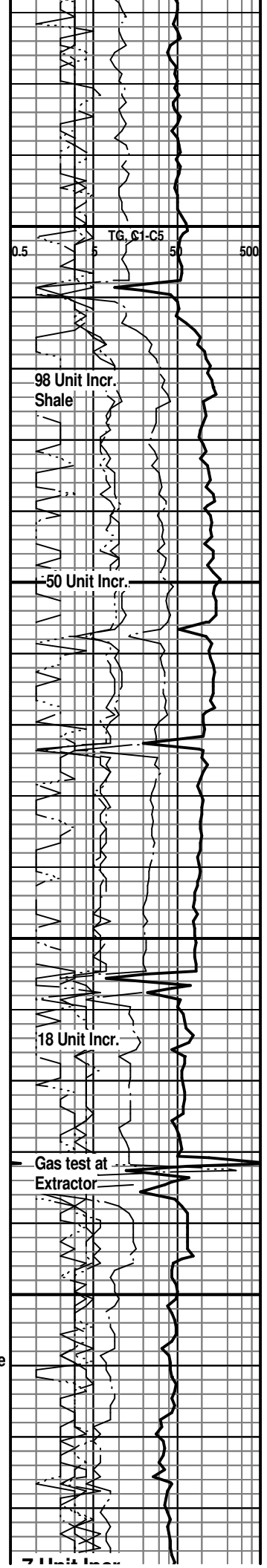
SIMPSON SHALE 4756(-3156)

SS; lt gy, f gr qtz, dolomitic, hd, scat grn glau incl, some qtzitic, trc poor intergran por, lt yel fluor, no stn or odor, no gas kick, ns.

SIMPSON SAND 4770(-3170)

SS; clr, lt gy, f to med gr, some v. dolomitic, pyr, hd, interbdd med gr glau ss w/poor intergran por, no fluor, no stn or odor, no gas kick, ns.

SS; clr, lt brn, f to med gr qtz, clusters, some v. hd -



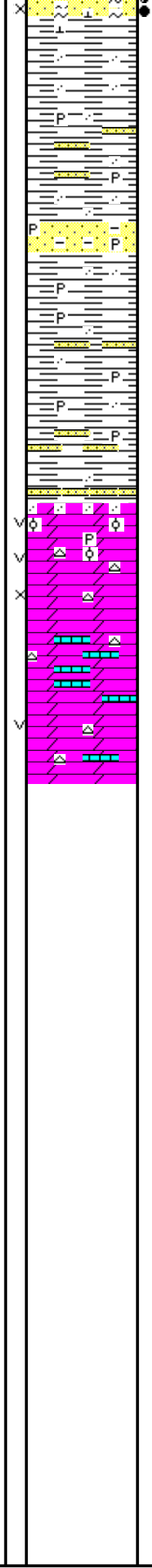
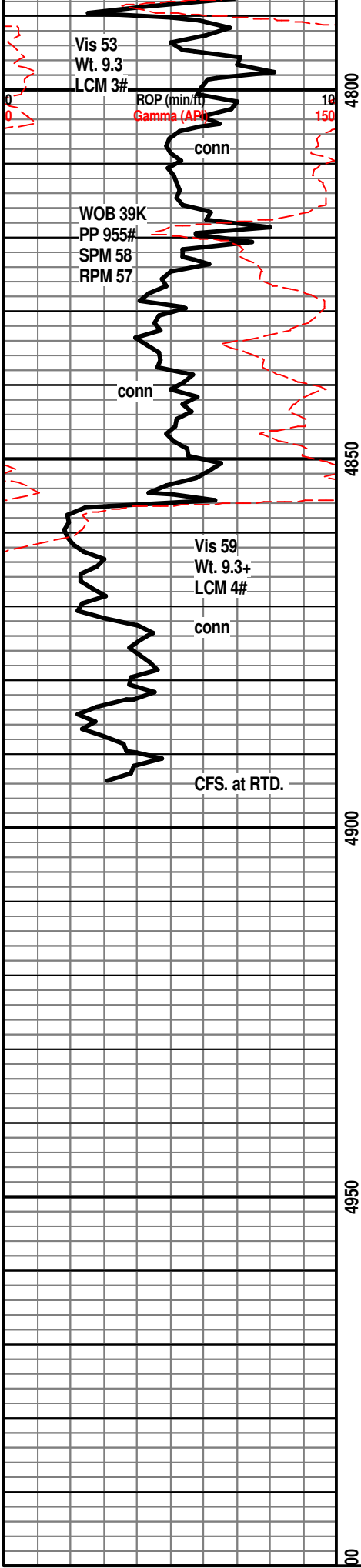
98 Unit Incr. Shale

50 Unit Incr.

18 Unit Incr.

Gas test at Extractor

7 Unit Incr.



SS; sh, lt brn, f to med gr qtz, clusters, some v. rd qtzitic, sev. fri clusters w/fair intergran por w/lt brn fair to gd cut, glau ip, calc cement

SH; med grn, some sea grn, sandy ip, scat pyr, interbdd thin gy vf to f gr qtz strngs, tite

SS; wh, med gr qtz, hd, well cem to qtzitic, pyr, tite, scat dk gy to blk clay incl.

SH; med grn, gy grn, sandy w/rare interbdd hd ss strngs, occ pyr

SH; grn, gy grn, some med to cse gr qtz ss clusters/loose gr, scat dk gy/blk clay incl., rare pyr, no fluor, no stn or odor, ns.

ARBUCKLE 4856(-3256)

DOL; tan to lt brn, sucrosic to finely rhombic, well dev. vug por at top, scat oolitic dolo, uniform med yel min fluor, occ sandy, no stn or odor, ns.

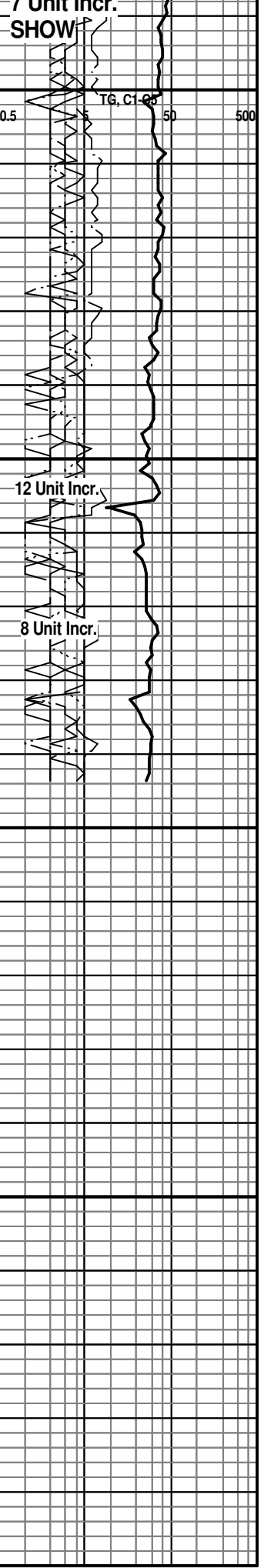
DOL; tan to lt brn, sucrosic to finely rhombic, some lmy - tite, uniform med yel min fluor, trc oolitic cht, occ fair vug por, no stn or odor, ns.

RTD. 4890' at 11:15 PM. 1/20/14

LTD. 4894'

Nabors, Co. DIL, NEU/DEN with PE, Microlog

NOTE: This log was shifted downward by 2' to 4' for correlation purposes with the Nabors Co. Logs.





DRILL STEM TEST REPORT

Prepared For: **Herman L Loeb, LLC**

PO Box 838
Lawrenceville, IL 62439

ATTN: Jon Christensen

Forsyth B #1-17

17-32s-12w Barber,KS

Start Date: 2014.01.14 @ 23:05:32

End Date: 2014.01.15 @ 07:34:17

Job Ticket #: 51866 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.01.23 @ 10:17:29



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Herman L Loeb, LLC
 PO Box 838
 Lawrenceville, IL 62439
 ATTN: Jon Christensen

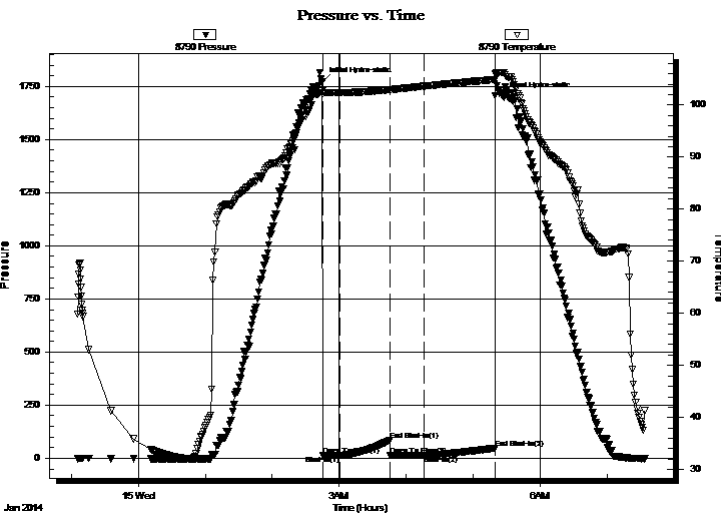
17-32s-12w Barber, KS
Forsyth B #1-17
 Job Ticket: 51866 **DST#: 1**
 Test Start: 2014.01.14 @ 23:05:32

GENERAL INFORMATION:

Formation: **Snyderville Sand**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 02:45:47 Tester: Jimmy Ricketts
 Time Test Ended: 07:34:17 Unit No: 48
 Interval: **3632.00 ft (KB) To 3680.00 ft (KB) (TVD)** Reference Elevations: 1600.00 ft (KB)
 Total Depth: 3680.00 ft (KB) (TVD) 1591.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 9.00 ft

Serial #: 8790 Inside
 Press@RunDepth: 13.78 psig @ 3641.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.01.14 End Date: 2014.01.15 Last Calib.: 2014.01.14
 Start Time: 23:05:37 End Time: 07:34:16 Time On Btm: 2014.01.15 @ 02:45:02
 Time Off Btm: 2014.01.15 @ 05:27:02

TEST COMMENT: Weak blow building to 1 inch initial flow period.
 Weak surface blow throughout final flow period.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1773.27	102.71	Initial Hydro-static
1	12.47	102.13	Open To Flow (1)
16	12.02	102.32	Shut-In(1)
61	85.26	102.93	End Shut-In(1)
61	13.06	102.90	Open To Flow (2)
91	13.78	103.60	Shut-In(2)
155	47.65	104.87	End Shut-In(2)
162	1701.99	106.24	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	Drilling Mud 100% M	0.01

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (m ³ /d)



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Herman L Loeb, LLC
PO Box 838
Lawrenceville, IL 62439
ATTN: Jon Christensen

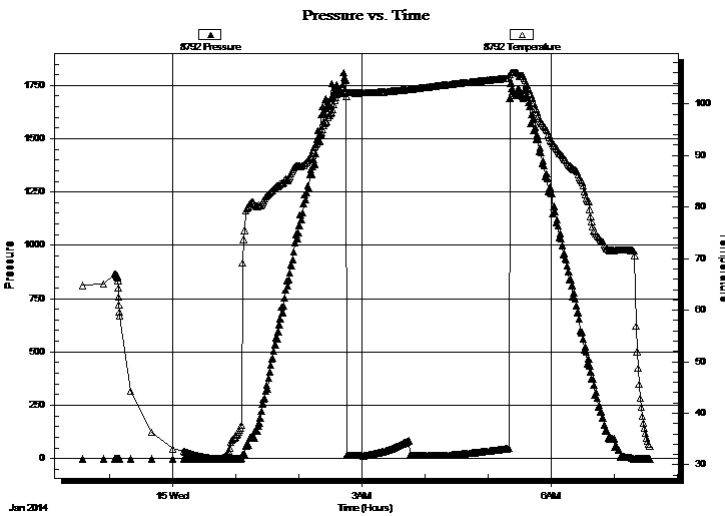
17-32s-12w Barber,KS
Forsyth B #1-17
Job Ticket: 51866 **DST#: 1**
Test Start: 2014.01.14 @ 23:05:32

GENERAL INFORMATION:

Formation: **Snyderville Sand**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 02:45:47
Time Test Ended: 07:34:17
Interval: **3632.00 ft (KB) To 3680.00 ft (KB) (TVD)**
Total Depth: 3680.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Reference Elevations: 1600.00 ft (KB)
1591.00 ft (CF)
KB to GR/CF: 9.00 ft

Serial #: 8792 **Outside**
Press@RunDepth: psig @ 3641.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.01.14 End Date: 2014.01.15 Last Calib.: 1899.12.30
Start Time: 22:34:29 End Time: 07:34:01 Time On Btm:
Time Off Btm:

TEST COMMENT: Weak blow building to 1 inch initial flow period.
Weak surface blow throughout final flow period.



PRESSURE SUMMARY

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

Recovery

Gas Rates

Length (ft)	Description	Volume (bbl)
2.00	Drilling Mud 100% M	0.01

Choke (inches)	Pressure (psig)	Gas Rate (m ³ /d)



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Herman L Loeb, LLC
 PO Box 838
 Lawrenceville, IL 62439
 ATTN: Jon Christensen

17-32s-12w Barber,KS
Forsyth B #1-17
 Job Ticket: 51866 **DST#: 1**
 Test Start: 2014.01.14 @ 23:05:32

Tool Information

Drill Pipe:	Length: 3408.00 ft	Diameter: 3.80 inches	Volume: 47.81 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 21000.00 lb
Drill Collar:	Length: 218.00 ft	Diameter: 2.25 inches	Volume: 1.07 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 48.88 bbl</u>	Tool Chased 1.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 81000.00 lb
Depth to Top Packer:	3632.00 ft			Final 82000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	48.00 ft			
Tool Length:	70.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
-------------------------	--------------------	-------------------	-----------------	-------------------	-----------------------

Change Over Sub	1.00			3611.00	
Shut In Tool	5.00			3616.00	
Hydraulic tool	5.00			3621.00	
Safety Joint	2.00			3623.00	
Packer	5.00			3628.00	22.00 Bottom Of Top Packer
Packer	4.00			3632.00	
Stubb	1.00			3633.00	
Perforations	7.00			3640.00	
Change Over Sub	1.00			3641.00	
Recorder	0.00	8790	Inside	3641.00	
Recorder	0.00	8792	Outside	3641.00	
Drill Pipe	31.00			3672.00	
Change Over Sub	1.00			3673.00	
Perforations	4.00			3677.00	
Bullnose	3.00			3680.00	48.00 Bottom Packers & Anchor

Total Tool Length: 70.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Herman L Loeb, LLC
 PO Box 838
 Lawrenceville, IL 62439
 ATTN: Jon Christensen

17-32s-12w Barber,KS
Forsyth B #1-17
 Job Ticket: 51866 **DST#: 1**
 Test Start: 2014.01.14 @ 23:05:32

Mud and Cushion Information

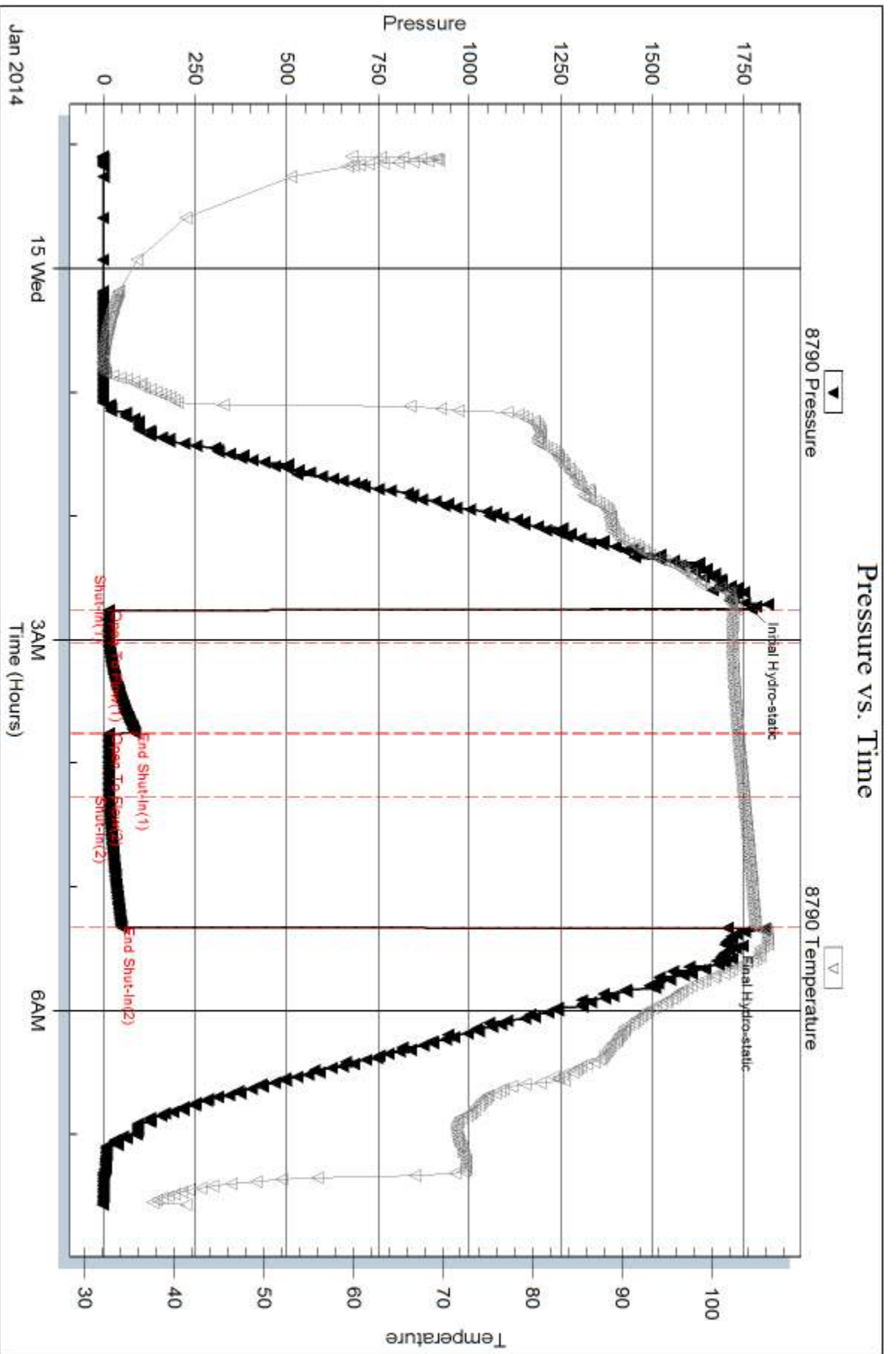
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 57.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.08 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3000.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	Drilling Mud 100% M	0.010

Total Length: 2.00 ft Total Volume: 0.010 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

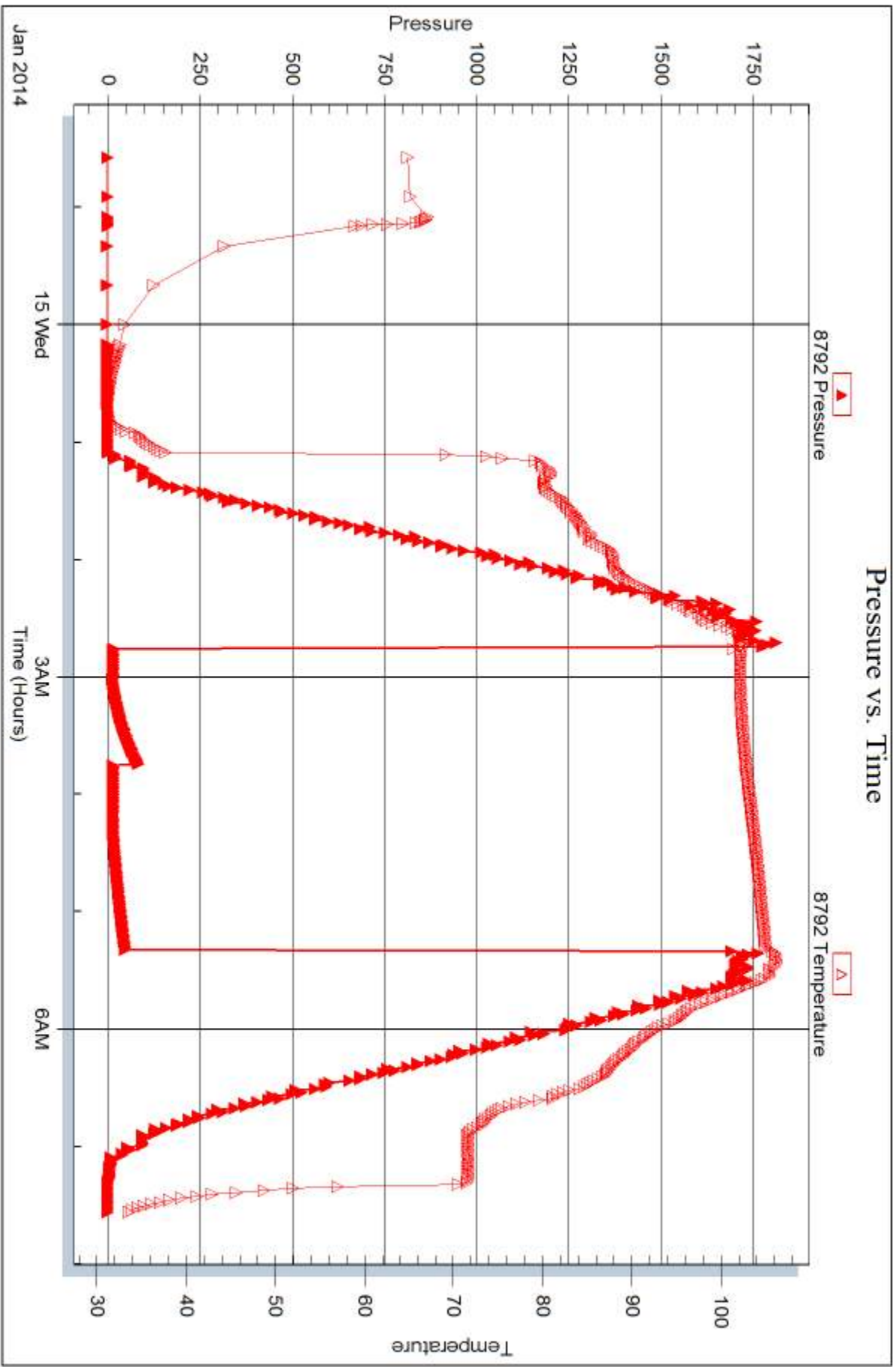


Serial #: 8792

Outside Herman L Loeb, LLC

Forsyth B #1-17

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Herman L Loeb, LLC**

PO Box 838
Lawrenceville, IL 62439

ATTN: Jon Christensen

Forsyth B #1-17

17-32s-12w Barber,KS

Start Date: 2014.01.16 @ 20:22:45

End Date: 2014.01.17 @ 04:10:15

Job Ticket #: 51845 DST #: 2

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.01.23 @ 10:16:59

Herman L Loeb, LLC
17-32s-12w Barber,KS
Forsyth B #1-17
DST # 2
Miss.Chert
2014.01.16



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Herman L Loeb, LLC
 PO Box 838
 Lawrenceville, IL 62439
 ATTN: Jon Christensen

17-32s-12w Barber,KS
Forsyth B #1-17
 Job Ticket: 51845 **DST#: 2**
 Test Start: 2014.01.16 @ 20:22:45

GENERAL INFORMATION:

Formation: **Miss.Chert**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 22:55:00 Tester: Gary Pevoteaux
 Time Test Ended: 04:10:15 Unit No: 53
 Interval: **4355.00 ft (KB) To 4380.00 ft (KB) (TVD)** Reference Elevations: 1600.00 ft (KB)
 Total Depth: 4380.00 ft (KB) (TVD) 1591.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 9.00 ft

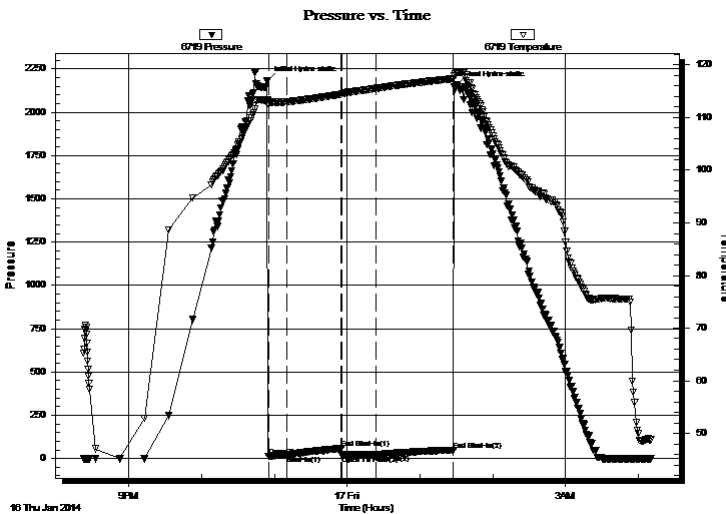
Serial #: 6719

Outside

Press@RunDepth: 21.98 psig @ 4356.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.01.16 End Date: 2014.01.17 Last Calib.: 2014.01.17
 Start Time: 20:22:50 End Time: 04:10:14 Time On Btm: 2014.01.16 @ 22:54:15
 Time Off Btm: 2014.01.17 @ 01:30:30

TEST COMMENT: IF: Weak blow . 3/4" to 1".
 IS: No blow .
 FF: Very weak blow . 1/4".
 FS: No blow .

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2180.99	113.37	Initial Hydro-static
1	13.48	112.75	Open To Flow (1)
17	18.82	113.01	Shut-In(1)
61	58.01	114.43	End Shut-In(1)
62	17.17	114.52	Open To Flow (2)
90	21.98	115.56	Shut-In(2)
154	49.24	117.39	End Shut-In(2)
157	2156.15	118.59	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Drig. mud	0.05

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (m ³ /d)



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Herman L Loeb, LLC
 PO Box 838
 Lawrenceville, IL 62439
 ATTN: Jon Christensen

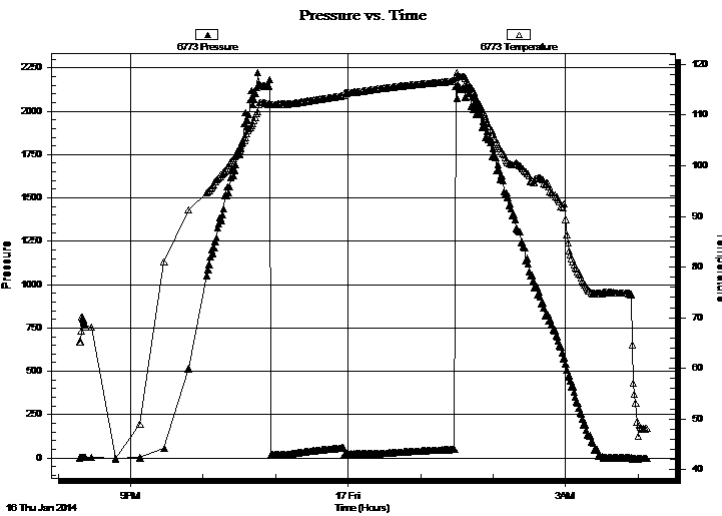
17-32s-12w Barber, KS
Forsyth B #1-17
 Job Ticket: 51845 **DST#: 2**
 Test Start: 2014.01.16 @ 20:22:45

GENERAL INFORMATION:

Formation: **Miss.Chert**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 22:55:00
 Tester: Gary Pevoteaux
 Time Test Ended: 04:10:15
 Unit No: 53
 Interval: **4355.00 ft (KB) To 4380.00 ft (KB) (TVD)**
 Reference Elevations: 1600.00 ft (KB)
 Total Depth: 4380.00 ft (KB) (TVD)
 1591.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Fair
 KB to GR/CF: 9.00 ft

Serial #: 6773 **Inside**
 Press@RunDepth: psig @ 4356.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.01.16 End Date: 2014.01.17 Last Calib.: 2014.01.17
 Start Time: 20:17:57 End Time: 04:07:36 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: Weak blow . 3/4" to 1".
 IS: No blow .
 FF: Very weak blow . 1/4".
 FS: No blow .



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Drig. mud	0.05

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (m ³ /d)



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Herman L Loeb, LLC
 PO Box 838
 Lawrenceville, IL 62439
 ATTN: Jon Christensen

17-32s-12w Barber,KS
Forsyth B #1-17
 Job Ticket: 51845 **DST#: 2**
 Test Start: 2014.01.16 @ 20:22:45

Tool Information

Drill Pipe:	Length: 4148.00 ft	Diameter: 3.80 inches	Volume: 58.19 bbl	Tool Weight: 2400.00 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: 210.00 ft	Diameter: 2.25 inches	Volume: 1.03 bbl	Weight to Pull Loose: 101000.0 lb
			<u>Total Volume: 59.22 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 90000.00 lb
Depth to Top Packer:	4355.00 ft			Final 90000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	25.00 ft			
Tool Length:	48.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
-------------------------	--------------------	-------------------	-----------------	-------------------	-----------------------

Change Over Sub	1.00			4333.00	
Shut In Tool	5.00			4338.00	
Hydraulic tool	5.00			4343.00	
Safety Joint	3.00			4346.00	
Packer	4.00			4350.00	23.00 Bottom Of Top Packer
Packer	5.00			4355.00	
Stubb	1.00			4356.00	
Recorder	0.00	6719	Outside	4356.00	
Recorder	0.00	6773	Inside	4356.00	
Perforations	21.00			4377.00	
Bullnose	3.00			4380.00	25.00 Bottom Packers & Anchor

Total Tool Length: 48.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Herman L Loeb, LLC
 PO Box 838
 Lawrenceville, IL 62439
 ATTN: Jon Christensen

17-32s-12w Barber,KS
Forsyth B #1-17
 Job Ticket: 51845 **DST#: 2**
 Test Start: 2014.01.16 @ 20:22:45

Mud and Cushion Information

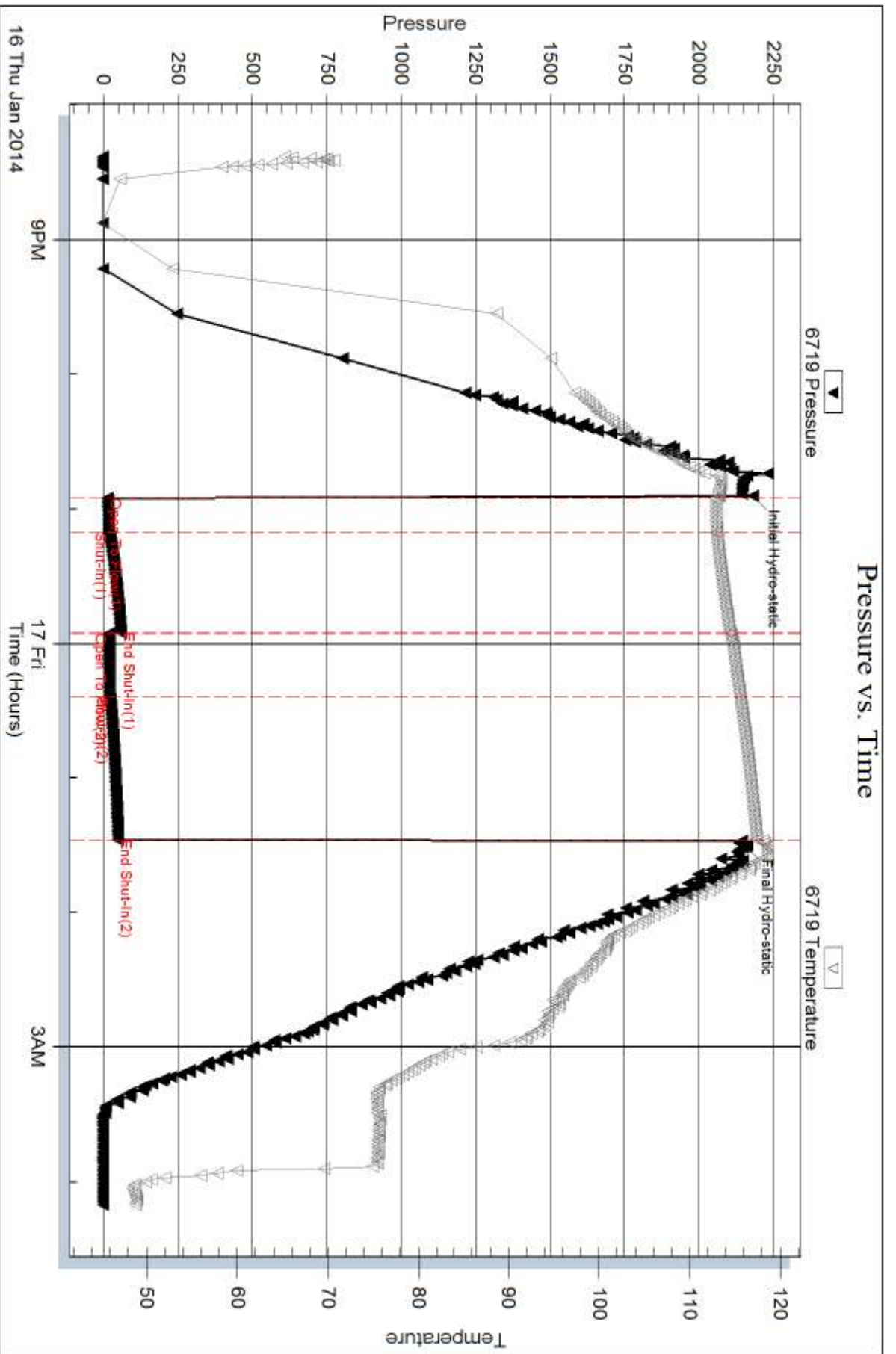
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	3000 ppm
Viscosity: 55.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.78 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 3000.00 ppm			
Filter Cake: 0.20 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Drig. mud	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:



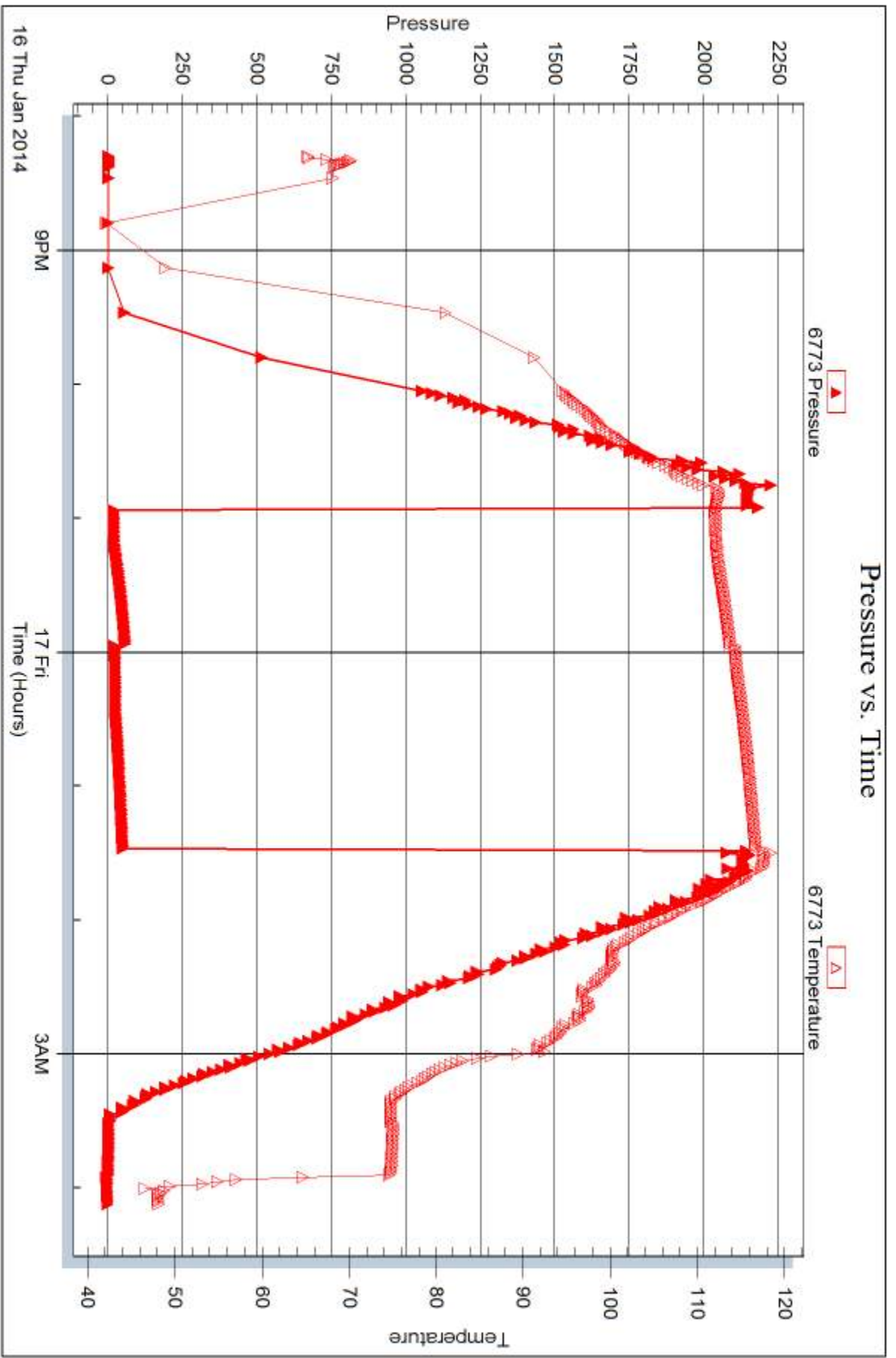
Serial #: 6773

Inside

Herman L Loeb, LLC

Forsyth B #1-17

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Herman L Loeb, LLC**

PO Box 838
Lawrenceville, IL 62439

ATTN: Jon Christensen

Forsyth B #1-17

17-32s-12w Barber,KS

Start Date: 2014.01.17 @ 14:33:21

End Date: 2014.01.17 @ 23:45:36

Job Ticket #: 51846 DST #: 3

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.01.23 @ 10:13:04

Herman L Loeb, LLC
17-32s-12w Barber,KS
Forsyth B #1-17
DST # 3
Miss. Chert
2014.01.17



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Herman L Loeb, LLC
 PO Box 838
 Lawrenceville, IL 62439
 ATTN: Jon Christensen

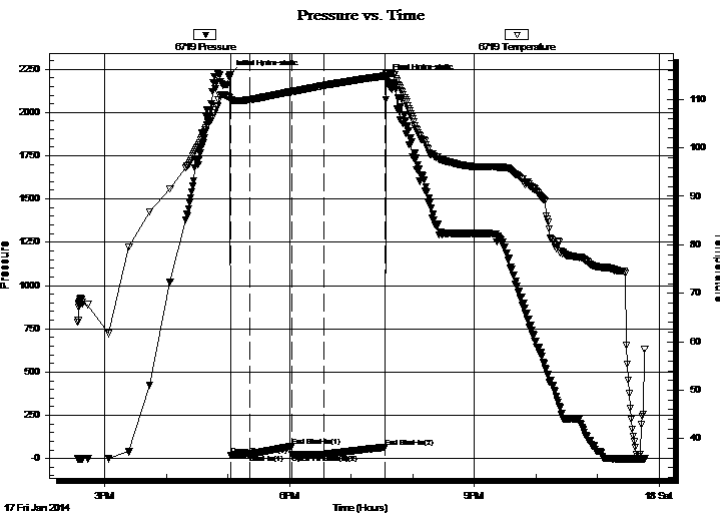
17-32s-12w Barber,KS
Forsyth B #1-17
 Job Ticket: 51846 **DST#: 3**
 Test Start: 2014.01.17 @ 14:33:21

GENERAL INFORMATION:

Formation: **Miss. Chert**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 17:02:36
 Time Test Ended: 23:45:36
 Interval: **4380.00 ft (KB) To 4420.00 ft (KB) (TVD)**
 Total Depth: 4420.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Ryan Reynolds
 Unit No: 53
 Reference Elevations: 1600.00 ft (KB)
 1591.00 ft (CF)
 KB to GR/CF: 9.00 ft

Serial #: 6719 Outside
 Press@RunDepth: 23.95 psig @ 4381.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.01.17 End Date: 2014.01.17 Last Calib.: 2014.01.17
 Start Time: 14:33:26 End Time: 23:45:36 Time On Btm: 2014.01.17 @ 17:01:51
 Time Off Btm: 2014.01.17 @ 19:34:06

TEST COMMENT: IF: Weak blow . Surf. - 1".
 IS: No blow .
 FF: Weak blow . Surf. - 1 1/2".
 FS: No blow .



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2219.53	110.34	Initial Hydro-static
1	17.40	109.89	Open To Flow (1)
20	25.64	109.95	Shut-In(1)
61	70.11	111.61	End Shut-In(1)
61	22.22	111.60	Open To Flow (2)
92	23.95	112.85	Shut-In(2)
152	65.90	114.86	End Shut-In(2)
153	2195.86	115.25	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Drig mud 100%	0.05

* Recovery from multiple tests

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (m ³ /d)



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Herman L Loeb, LLC
PO Box 838
Lawrenceville, IL 62439
ATTN: Jon Christensen

17-32s-12w Barber, KS

Forsyth B #1-17

Job Ticket: 51846

DST#: 3

Test Start: 2014.01.17 @ 14:33:21

GENERAL INFORMATION:

Formation: **Miss. Chert**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:02:36

Time Test Ended: 23:45:36

Test Type: Conventional Bottom Hole (Reset)

Tester: Ryan Reynolds

Unit No: 53

Interval: **4380.00 ft (KB) To 4420.00 ft (KB) (TVD)**

Total Depth: 4420.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1600.00 ft (KB)

1591.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 6773 Inside

Press@RunDepth: psig @ 4381.00 ft (KB)

Start Date: 2014.01.17

End Date: 2014.01.17

Capacity: 8000.00 psig

Last Calib.: 2014.01.17

Start Time: 14:29:10

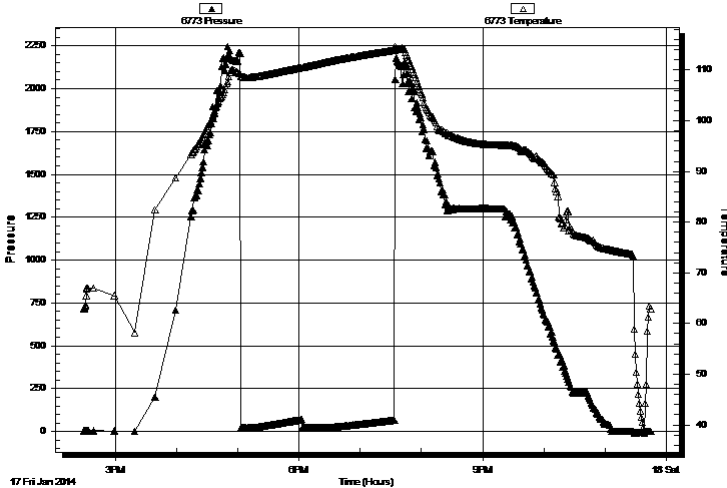
End Time: 23:44:20

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: Weak blow . Surf. - 1".
IS: No blow .
FF: Weak blow . Surf. - 1 1/2".
FS: No blow .

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Drig mud 100%	0.05

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (m³/d)

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Herman L Loeb, LLC
 PO Box 838
 Lawrenceville, IL 62439
 ATTN: Jon Christensen

17-32s-12w Barber,KS
Forsyth B #1-17
 Job Ticket: 51846 **DST#: 3**
 Test Start: 2014.01.17 @ 14:33:21

Tool Information

Drill Pipe:	Length: 4173.00 ft	Diameter: 3.80 inches	Volume: 58.54 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 218.00 ft	Diameter: 2.25 inches	Volume: 1.07 bbl	Weight to Pull Loose: 95000.00 lb
			<u>Total Volume: 59.61 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	34.00 ft			String Weight: Initial 90000.00 lb
Depth to Top Packer:	4380.00 ft			Final 90000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	40.00 ft			
Tool Length:	63.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
-------------------------	--------------------	-------------------	-----------------	-------------------	-----------------------

Change Over Sub	1.00			4358.00	
Shut In Tool	5.00			4363.00	
Hydraulic tool	5.00			4368.00	
Safety Joint	3.00			4371.00	
Packer	4.00			4375.00	23.00 Bottom Of Top Packer
Packer	5.00			4380.00	
Stubb	1.00			4381.00	
Recorder	0.00	6719	Outside	4381.00	
Recorder	0.00	6773	Inside	4381.00	
Perforations	36.00			4417.00	
Bullnose	3.00			4420.00	40.00 Bottom Packers & Anchor

Total Tool Length: 63.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Herman L Loeb, LLC
 PO Box 838
 Lawrenceville, IL 62439
 ATTN: Jon Christensen

17-32s-12w Barber,KS
Forsyth B #1-17
 Job Ticket: 51846 **DST#: 3**
 Test Start: 2014.01.17 @ 14:33:21

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:	5000 ppm
Viscosity: 57.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.79 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 5000.00 ppm			
Filter Cake: 0.20 inches			

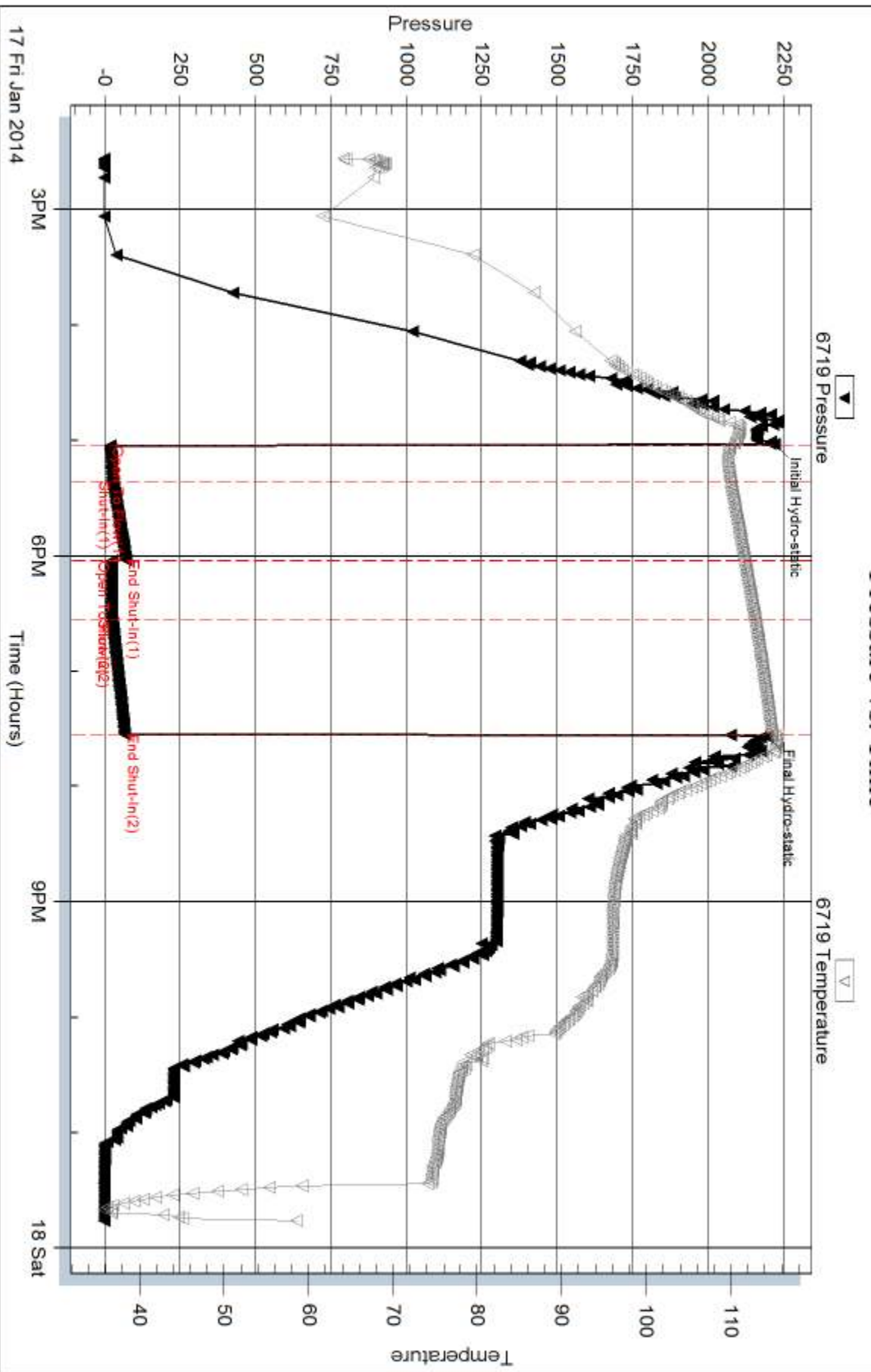
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Drig mud 100%	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: none
 Laboratory Name: Laboratory Location:
 Recovery Comments:

Pressure vs. Time



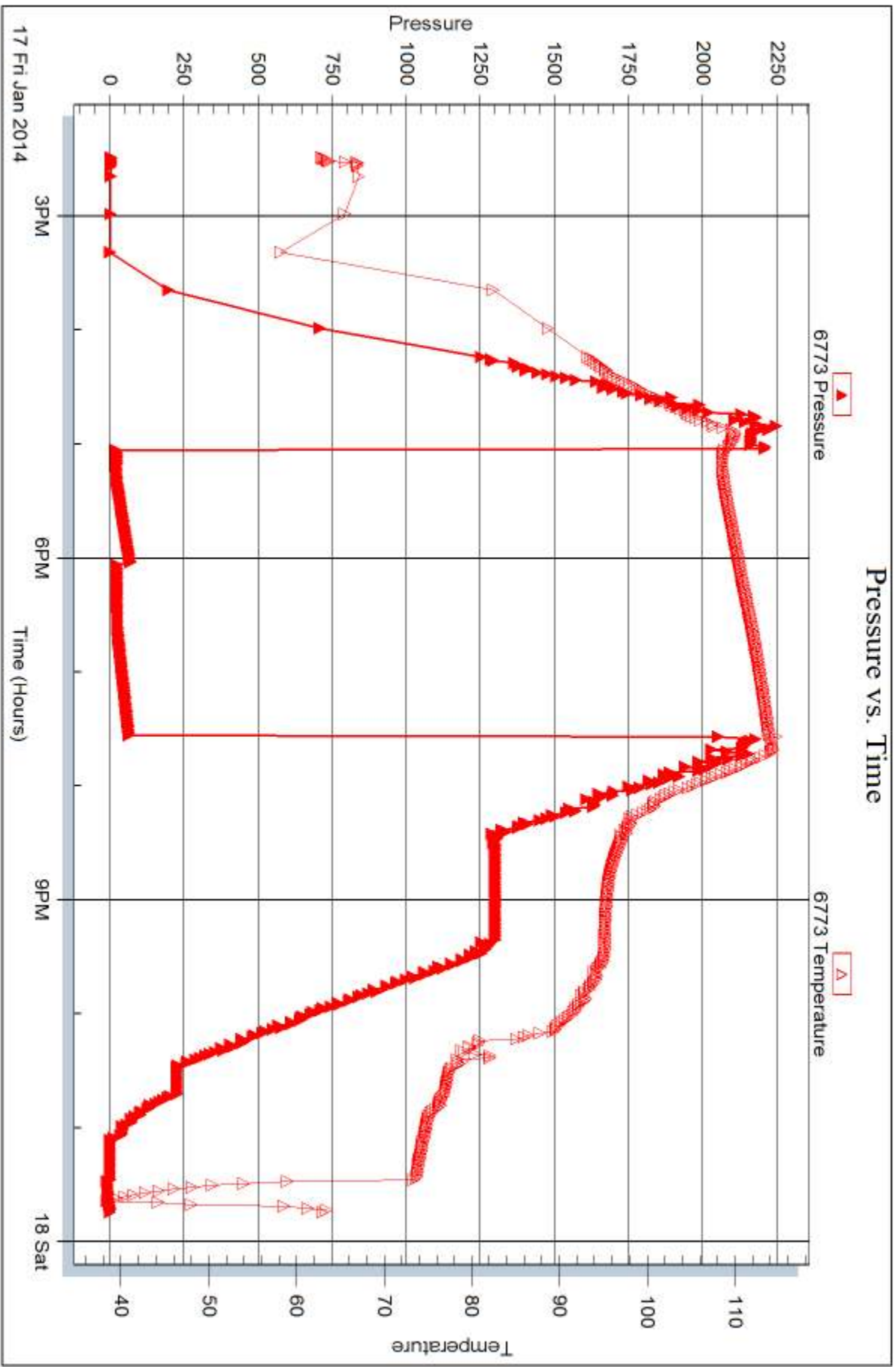
Serial #: 6773

Inside

Herman L Loeb, LLC

Forsyth B #1-17

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 51846

Printed: 2014.01.23 @ 10:13:06



DRILL STEM TEST REPORT

Prepared For: **Herman L Loeb, LLC**

PO Box 838
Lawrenceville, IL 62439

ATTN: Jon Christensen

Forsyth B #1-17

17-32s-12w Barber,KS

Start Date: 2014.01.19 @ 02:12:24

End Date: 2014.01.19 @ 10:42:09

Job Ticket #: 51847 DST #: 4

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.01.23 @ 10:12:26



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Herman L Loeb, LLC
 PO Box 838
 Lawrenceville, IL 62439
 ATTN: Jon Christensen

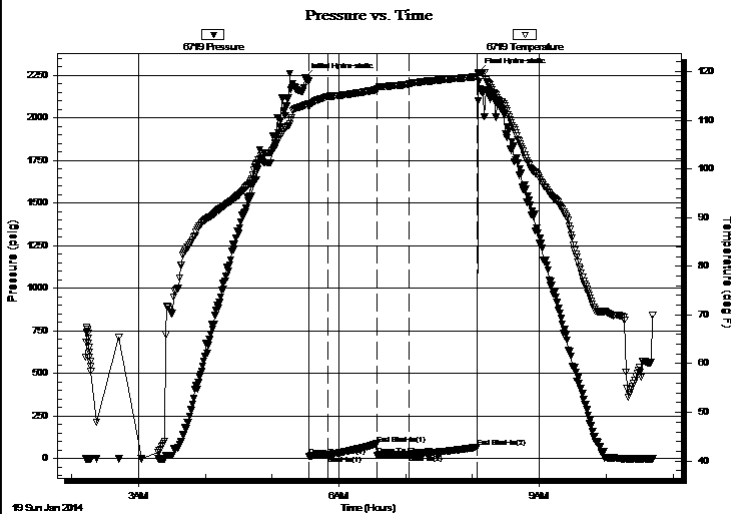
17-32s-12w Barber, KS
Forsyth B #1-17
 Job Ticket: 51847 **DST#: 4**
 Test Start: 2014.01.19 @ 02:12:24

GENERAL INFORMATION:

Formation: **Basal Miss. Chert**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 05:32:54
 Time Test Ended: 10:42:09
 Interval: **4480.00 ft (KB) To 4508.00 ft (KB) (TVD)**
 Total Depth: 4508.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Ryan Reynolds
 Unit No: 53
 Reference Elevations: 1600.00 ft (KB)
 1591.00 ft (CF)
 KB to GR/CF: 9.00 ft

Serial #: 6719 Outside
 Press@RunDepth: 21.87 psig @ 4481.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.01.19 End Date: 2014.01.19 Last Calib.: 2014.01.19
 Start Time: 02:12:29 End Time: 10:42:08 Time On Btm: 2014.01.19 @ 05:29:39
 Time Off Btm: 2014.01.19 @ 08:04:54

TEST COMMENT: IF: Weak blow . surf. - 1/2".
 IS: No blow .
 FF: Weak blow . surf. - 1"
 FS: No blow .



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2235.18	113.08	Initial Hydro-static
4	14.02	112.68	Open To Flow (1)
21	20.38	114.87	Shut-In(1)
65	85.93	116.21	End Shut-In(1)
65	19.76	116.24	Open To Flow (2)
93	21.87	117.47	Shut-In(2)
155	66.63	118.92	End Shut-In(2)
156	2267.61	119.66	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	V SLI O Spkd M trc%Oil, 100%m	0.10

* Recovery from multiple tests

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (m ³ /d)



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Herman L Loeb, LLC
 PO Box 838
 Lawrenceville, IL 62439
 ATTN: Jon Christensen

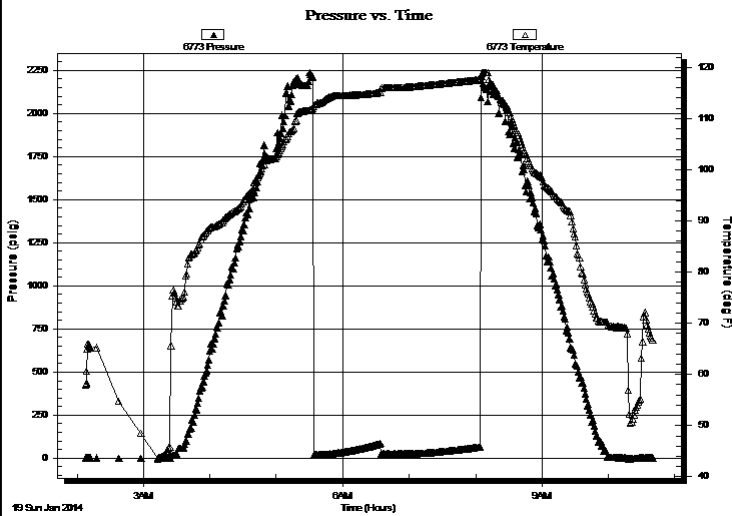
17-32s-12w Barber,KS
Forsyth B #1-17
 Job Ticket: 51847 **DST#: 4**
 Test Start: 2014.01.19 @ 02:12:24

GENERAL INFORMATION:

Formation: **Basal Miss. Chert**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 05:32:54 Tester: Ryan Reynolds
 Time Test Ended: 10:42:09 Unit No: 53
Interval: 4480.00 ft (KB) To 4508.00 ft (KB) (TVD)
 Reference Elevations: 1600.00 ft (KB)
 Total Depth: 4508.00 ft (KB) (TVD) 1591.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 9.00 ft

Serial #: 6773 **Inside**
 Press@RunDepth: psig @ 4481.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.01.19 End Date: 2014.01.19 Last Calib.: 2014.01.19
 Start Time: 02:07:44 End Time: 10:39:54 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: Weak blow . surf. - 1/2".
 IS: No blow .
 FF: Weak blow . surf. - 1"
 FS: No blow .



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
20.00	V SLI O Spkd M trc%Oil, 100%m	0.10

* Recovery from multiple tests

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (m ³ /d)



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Herman L Loeb, LLC
 PO Box 838
 Lawrenceville, IL 62439
 ATTN: Jon Christensen

17-32s-12w Barber,KS
Forsyth B #1-17
 Job Ticket: 51847 **DST#: 4**
 Test Start: 2014.01.19 @ 02:12:24

Tool Information

Drill Pipe:	Length: 4269.00 ft	Diameter: 3.80 inches	Volume: 59.88 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 218.00 ft	Diameter: 2.25 inches	Volume: 1.07 bbl	Weight to Pull Loose: 100000.0 lb
			<u>Total Volume: 60.95 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 92000.00 lb
Depth to Top Packer:	4480.00 ft			Final 92000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	28.00 ft			
Tool Length:	51.00 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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Change Over Sub	1.00			4458.00	
Shut In Tool	5.00			4463.00	
Hydraulic tool	5.00			4468.00	
Safety Joint	3.00			4471.00	
Packer	4.00			4475.00	23.00 Bottom Of Top Packer
Packer	5.00			4480.00	
Stubb	1.00			4481.00	
Recorder	0.00	6719	Outside	4481.00	
Recorder	0.00	6773	Inside	4481.00	
Perforations	24.00			4505.00	
Bullnose	3.00			4508.00	28.00 Bottom Packers & Anchor

Total Tool Length: 51.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Herman L Loeb, LLC
 PO Box 838
 Lawrenceville, IL 62439
 ATTN: Jon Christensen

17-32s-12w Barber,KS
Forsyth B #1-17
 Job Ticket: 51847 **DST#: 4**
 Test Start: 2014.01.19 @ 02:12:24

Mud and Cushion Information

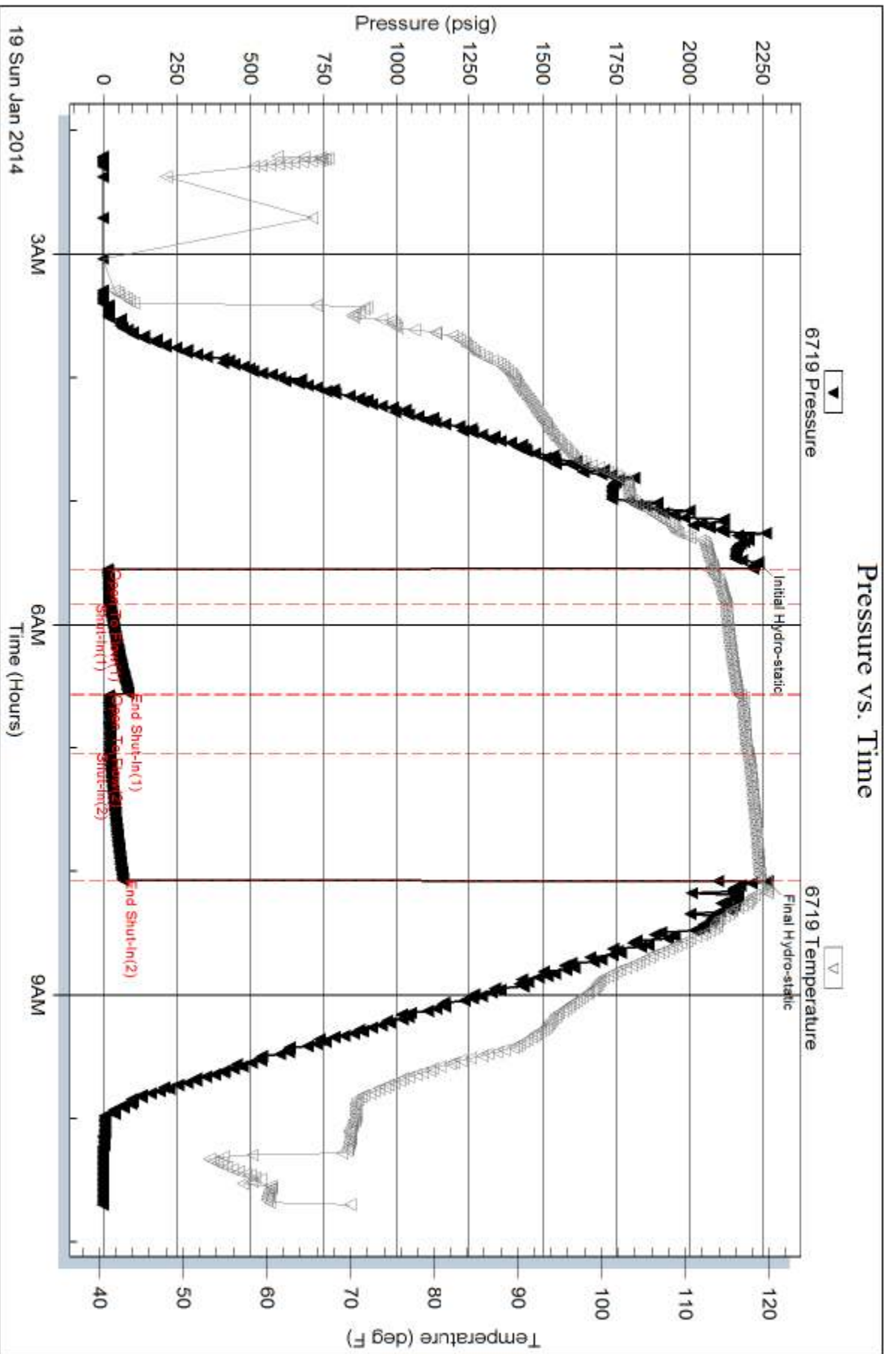
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	5000 ppm
Viscosity: 43.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.19 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 5000.00 ppm			
Filter Cake: 0.20 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	V SLI O Spkd M trc%Oil, 100%m	0.098

Total Length: 20.00 ft Total Volume: 0.098 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: none
 Laboratory Name: Laboratory Location:
 Recovery Comments:



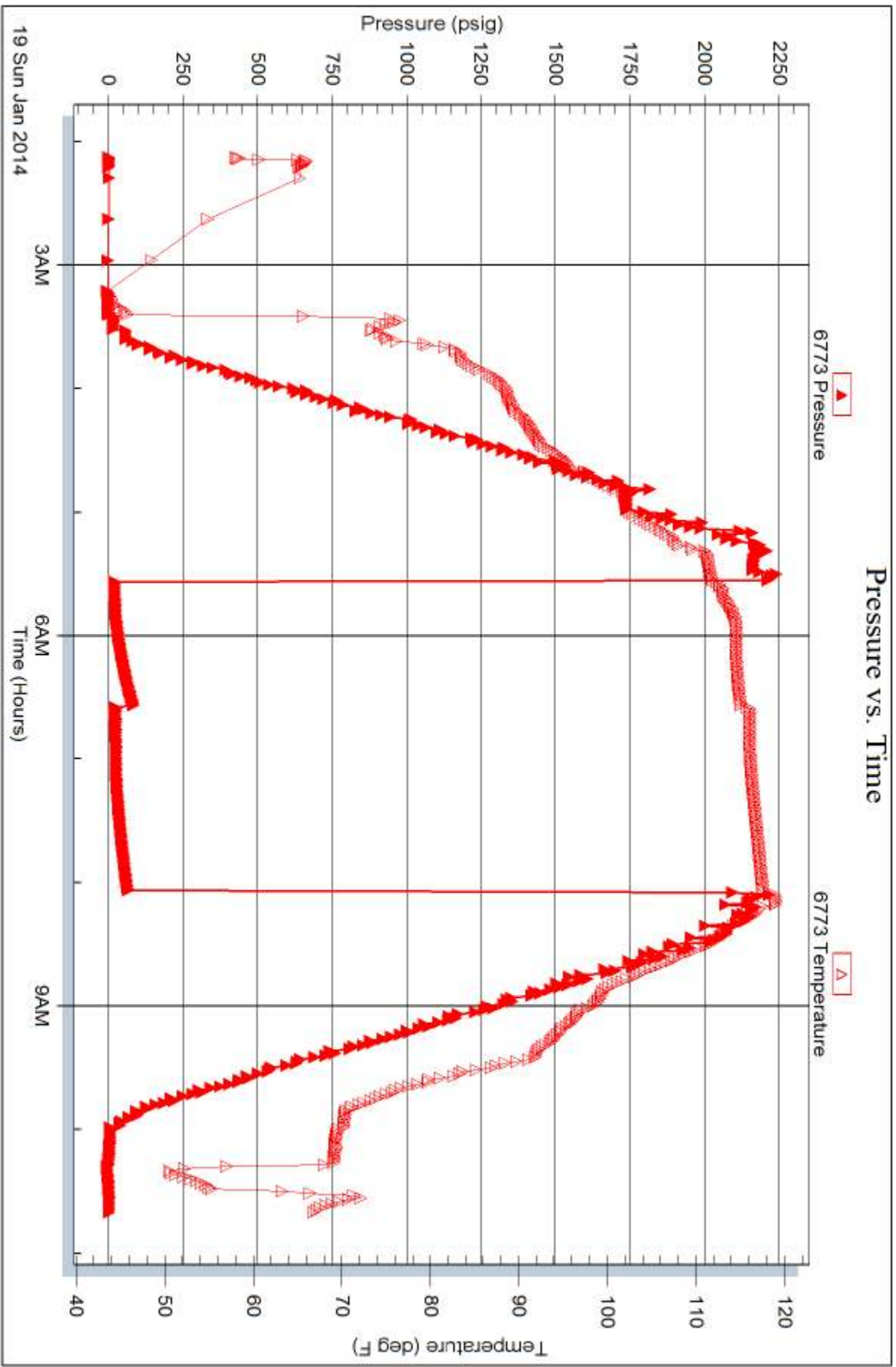
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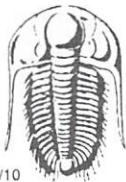
Inside

Herman L Loeb, LLC

Forsyth B #1-17

DST Test Number: 4





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Forsyth "B" # ~~2-17~~ 2-17

Test Ticket

NO. 51866

Well Name & No. Herman L Loeb, LLC Test No. 1 Date 1-15-14
 Company ↓ Elevation 1598 KB 1589 GL
 Address P.O. Box 838 Lawrenceville, IL 62439
 Co. Rep / Geo. Jon Christensen Rig Sterling #4
 Location: Sec. 17 Twp. 32 S Rge. 12 W Co. Barber State KS

Interval Tested 3632 - 3680 Zone Tested Snyderville Sand
 Anchor Length 48 Drill Pipe Run 3408 Mud Wt. 9.1
 Top Packer Depth 3627 Drill Collars Run 218 Vis 57
 Bottom Packer Depth 3632 Wt. Pipe Run 0 WL 9.1
 Total Depth 3680 Chlorides 3000 ppm System LCM
 Blow Description weak blow building to 1 inch IFP
weak surface blow throughout FFP

Rec	Feet of	%gas	%oil	%water	%mud
<u>2</u>	<u>Drilling 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 2 BHT 106 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>1773</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>2030</u>
(B) First Initial Flow <u>12</u>	<input type="checkbox"/> Jars _____	T-Started <u>0045</u>
(C) First Final Flow <u>12</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>0246</u>
(D) Initial Shut-In <u>85</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>0520</u>
(E) Second Initial Flow <u>13</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>0730</u>
(F) Second Final Flow <u>14</u>	<input checked="" type="checkbox"/> Mileage <u>RT 80 124</u>	Comments <u>8792-2304:06</u>
(G) Final Shut-In <u>48</u>	<input type="checkbox"/> Sampler _____	<u>8790-2305:32</u>
(H) Final Hydrostatic <u>1702</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
Initial Open <u>15</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby _____	Total <u>1349</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1349</u>	

Approved By [Signature] 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. 51845

Well Name & No. Forsyth B # 2-17 Test No. 2 Date 01-16-2014
 Company Herman L. Loeb, LLC. Elevation 1600 KB 1591 GL
 Address P.O. Box 838 Lawrenceville, IL. 62439
 Co. Rep / Geo. Jon Christensen Rig Sterling Drilling Rig #4
 Location: Sec. 17 Twp. 32s Rge. 12w Co. BARBER State KS

Interval Tested 4355 - 4380 Zone Tested Miss. Chert
 Anchor Length 25' Drill Pipe Run 4140 Mud Wt. 9.3
 Top Packer Depth 4350 Drill Collars Run 210 Vis 55
 Bottom Packer Depth 4355 Wt. Pipe Run 6 WL 8.8
 Total Depth 4380 Chlorides 3,000 ppm System LCM 2#

Blow Description IF: Weak blow, 3/4" to 1".
ISI: NO blow.
FF: Very weak blow, 1/4". FSI: NO blow.

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>Drig. mud</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 10 BHT 117° Gravity N/A API RW N.C. @ —° F Chlorides 3,000 ppm

(A) Initial Hydrostatic <u>281</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>1900</u>
(B) First Initial Flow <u>13</u>	<input type="checkbox"/> Jars	T-Started <u>2022</u>
(C) First Final Flow <u>19</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>2255</u>
(D) Initial Shut-In <u>58</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>0110 0127</u>
(E) Second Initial Flow <u>17</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>0410</u>
(F) Second Final Flow <u>22</u>	<input checked="" type="checkbox"/> Mileage <u>78</u> <u>120.90</u>	Comments
(G) Final Shut-In <u>49</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2156</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Open <u>15</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Flow <u>30</u>	<input type="checkbox"/> Day Standby	Total <u>1445.90</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1445.90</u>	

Approved By [Signature] 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.

MATT SMITH 50⁰⁰



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 51846

Well Name & No. Forsyth B# 2-17 Test No. 3 Date 1-17-2014
 Company Herman L. Loeb, LLC Elevation 1600 KB 1591 GL
 Address P.O. Box 838 Lawrenceville, IL. 62439
 Co. Rep / Geo. Jon Christensen Rig Sterling Drilling Rig # 4
 Location: Sec. 17 Twp. 32s Rge. 12w Co. Barber State KS.

Interval Tested 4380 - 4420 Zone Tested Miss. Chert
 Anchor Length 40' Drill Pipe Run ~~4173~~ 4173 Mud Wt. 9.4
 Top Packer Depth 4375 Drill Collars Run 218 Vis 57
 Bottom Packer Depth 4380 Wt. Pipe Run 2 WL 8-8
 Total Depth 4420 Chlorides 5,000 ppm System LCM 4#

Blow Description IF: Weak blow, Surf. to 1'
ISI: No blow.
FF: Weak blow, Surf. to 1 1/2". FSI: No blow.

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>DRlg 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 16' BHT 115° Gravity N/A API RW N.C. @ — °F Chlorides 5,000 ppm

(A) Initial Hydrostatic	<u>2220</u>	<input checked="" type="checkbox"/> Test	<u>1250</u>	T-On Location	<u>1400</u>
(B) First Initial Flow	<u>17</u>	<input type="checkbox"/> Jars		T-Started	<u>1433</u>
(C) First Final Flow	<u>26</u>	<input checked="" type="checkbox"/> Safety Joint	<u>75</u>	T-Open	<u>1703</u>
(D) Initial Shut-In	<u>70</u>	<input type="checkbox"/> Circ Sub		T-Pulled	<u>1930</u>
(E) Second Initial Flow	<u>22</u>	<input checked="" type="checkbox"/> Hourly Standby	<u>1 3/4</u>	T-Out	<u>2346</u>
(F) Second Final Flow	<u>24</u>	<input checked="" type="checkbox"/> Mileage	<u>92 124</u>	Comments	
(G) Final Shut-In	<u>66</u>	<input type="checkbox"/> Sampler		<u>TRN Matt Smith - 50</u>	
(H) Final Hydrostatic	<u>2196</u>	<input type="checkbox"/> Straddle		<input type="checkbox"/> Ruined Shale Packer	
		<input type="checkbox"/> Shale Packer		<input type="checkbox"/> Ruined Packer	
		<input type="checkbox"/> Extra Packer		<input type="checkbox"/> Extra Copies	

Initial Open 15
 Initial Shut-In 45
 Final Flow 30
 Final Shut-In 60

Extra Recorder 1d 1.25h Sub Total 41.67
 Day Standby DST#3 - DST#4/1-Day Total 1490.67
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1449

Approved By [Signature] Our Representative Ryan Reynolds
 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. 51847

Well Name & No. Forsyth B# 2-17 Test No. 4 Date 1-19-2014
 Company HERMAN L. LOEB, LLC. Elevation 1600 KB 1591 GL
 Address P.O. Box 838 Lawrenceville, IL. 62439
 Co. Rep / Geo. Jon Christensen Rig Sterling Drilling Rig #4
 Location: Sec. 17 Twp. 32s Rge. 12w Co. BARBER State KS.

Interval Tested 4480 - 4508 Zone Tested Basal Miss. Chert
 Anchor Length 28' Drill Pipe Run 4269 Mud Wt. 9.3
 Top Packer Depth 4475 Drill Collars Run 218 Vis 43
 Bottom Packer Depth 4480 Wt. Pipe Run 2 WL 9.2
 Total Depth 4508 Chlorides 5,000 ppm System LCM 3#

Blow Description IF: Weak blow, surf. - 1/2".
ISI: NO blow;
FF: Weak blow, Surf. - 1".
FSI: No blow.

Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>VSLIOS ptd m</u>	<u>TRC</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 20 BHT 119° Gravity N/A API RW N/C @ ~ °F Chlorides 5,000 ppm
 (A) Initial Hydrostatic 2235 Test 1250 T-On Location 0106
 (B) First Initial Flow 14 Jars _____ T-Started 0212
 (C) First Final Flow 20 Safety Joint 75 T-Open 0533
 (D) Initial Shut-In 86 Circ Sub _____ T-Pulled 0805
 (E) Second Initial Flow 20 Hourly Standby _____ T-Out 1042
 (F) Second Final Flow 22 Mileage 248 DST 4 Pick Tools 92+92 Comments _____
 (G) Final Shut-In 67 Sampler _____ TRW MATH Smooth - 50
 (H) Final Hydrostatic 2268 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____

Initial Open 15 Extra Recorder 1d 5.25h Sub Total 800
 Initial Shut-In 45 Day Standby 1 day DST 4-1600 Total 2373
 Final Flow 30 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 60 Sub Total 1573

Approved By [Signature] Our Representative [Signature]
 Trilobite Testing Inc. shall not be liable for damaged or destroyed 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.

HYDRAULIC FRACTURING FLUID PRODUCT COMPONENT INFORMATION DISCLOSURE



Last Fracture Date:	3/20/2014
County:	Barber
API Number (14 Digits):	15-007-24123-00-00
Operator Name:	Herman L. Loeb LLC
Well Name and Number:	Forsyth 'B' 2-17
Latitude:	N37 15' 43.774
Longitude:	W98 38' 42.689
Datum:	NAD83
Production Type:	Oil
True Vertical Depth (TVD):	4890
Total Base Fluid Volume (gal)*:	470610

Hydraulic Fracturing Fluid Composition:

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS#)	Maximum Ingredient Concentration in Additive (% by mass)**	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Authorized Representative's Name, Address and Phone Number
Plexslick 957	Chemplex	Friction Reducer	Petroleum Hydrotreated Light Distillate	64742-47-8	25%	0.0175163%	
Plexsurf 580 ME	Chemplex	Product Stabilizer	Methyl Alcohol	67-56-1	10%	0.0025163%	
Plexsurf 580 ME	Chemplex	Product Stabilizer	2-Butoxyethanol	111-76-2	50%	0.0125813%	
Claymax	Chemplex	Clay Stabilizer	No hazardous ingredient	N/A	0%	0.0000000%	
AMA-398	Chemplex	Biocide	Dazomet	533-74-4	98%	0.0011737%	
Plexgel Breaker XPA	Chemplex	Breaker/Slickwater	Hydrogen Peroxide	7722-84-1	7%	0.0014063%	
Plexset 730	Chemplex	Activator	Methanol	67-56-1	50%	0.6000000%	
Plexset 730	Chemplex	Activator	Alcohol Ethoxylates	Mixture	60.00%	0.7200000%	
Frac Sand	Uniman	Propan	Crystalline Silica in the form of Quartz	14808-60-7	100.00%	19.3000000%	

Ingredients shown above are subject to 29 CFR 1910.1200(i) and appear on Material Safety Data Sheets (MSDS). Ingredients shown below are Non-MSDS.

*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%.
Ingredient information for chemicals subject to 29 CFR 1910.1200(i) and Appendix D are obtained from suppliers' Material Safety Data Sheets (MSDS).