





1227550

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](mailto: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:  Yes  No

Date of First, Resumed Production, SWD or ENHR: \_\_\_\_\_ Producing Method:  
 Flowing  Pumping  Gas Lift  Other *(Explain)* \_\_\_\_\_

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <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> _____ <i>(Submit ACO-4)</i>	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	HERMAN L. LOEB, LLC
Well Name	ROSENBERGER 3-29
Doc ID	1227550

Tops

Name	Top	Datum
Heebner Shale	4034	-1831
Lansing 'A'	4196	-1993
Lansing/KC 'H'	4357	-2154
K.C. 'I'	4407	-2204
Base Kansas City	4584	-2381
Marmaton	4632	-2429
Miss Chert	4764	-2561
Kinderhook Shale	4804	-2601

# LITHOLOGY STRIP LOG

## WellSight Systems

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

Well Name: Rosenberger #3-29  
Location: 530' FNL & 1865' FEL, Sec. 29-T27S-R18W, Kiowa Co., KS.  
Licence Number: 15-097-21798-00-00  
Spud Date: 7/23/2014  
Surface Coordinates: 530' FNL & 1865' FEL, Sec. 29-T27S-R18W  
Region: Einsel Field  
Drilling Completed: 7/30/2014

Bottom Hole Same as Above  
Coordinates:  
Ground Elevation (ft): 2190' K.B. Elevation (ft): 2203'  
Logged Interval (ft): 3900' To: 4805' Total Depth (ft): 4805'  
Formation: Kinderhook at Total Depth  
Type of Drilling Fluid: Freshwater/Gel to 3295'; Chemical Gel 3295' to 4805'

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(Kansas City 'I' Upper Porosity) 4396' - 4416'(Corrected Depths to Log) Test Times 15"-45"-30"-60" IFP Weak Surface Blow, FFP No Blow, no Blowback on SI's; REC: 10' Drilling mud, no shows; IFP 38-40#, ISIP 824#, FFP 24-26#, FSIP 713#, IHP 2190#, FHP 2162#, BHT 117 Deg. F.

DST #2(Kansas City 'J' zone) 4442' - 4464'(Corrected Depths to Log) Test Times 15"-45"-45"-90" IFP Strong Blow BOB/4 Min., 6" Blowback on ISI, FFP Strong Blow BOB/1 Min., 3" Blowback on FSI, no Gas to Surface; REC: 1765' Rich Gas in Pipe, 150' G&OCWM(23%G, 22%O, 15%W, 40%M), 615' SW, CI 74,000, Mud 6000; IFP 120-176#, ISIP 1235#, FFP 211-373#, FSIP 1215#, IHP 2179#, FHP 2172#, BHT 126 Deg. F.

DST #3(Miss. Chert) 4741' - 4796'(Corrected Depths to Log) Test Times 15"-45"-45"-90" IFP Weak Blow built to 3", FFP Weak 3" Blow, no Blowback on SI's; REC: 60' Gas in Pipe, 10' Drilling Mud, no shows; IFP 28-21#, ISIP 75#, FFP 21-27#, FSIP 102#, IHP 2323#, FHP 2265#, BHT 122 Deg. F.

## Comments

7/23/14 MIRU Sterling Drilling Co. Rig #5, Spud at 5:30 PM., 7/24/14 Drilling at 575'; 7/25/14 Drilling at 1190'; 7/26/14 Drilling at 3230'; 7/27/14 Drilling at 4260'; 7/28/14 Drilling at 4440'; 7/29/14 Drilling at 4625'; 7/30/14 TD. 4790' - TIH after DST #3 - reached RTD. of 4805' at 11:30 AM., LTD.4814'; 7/31/14 RTD. 4805' - P & A.

Set new 8 5/8"(23#) Surface Casing at 626' KB. with 400 sacks cement(Basic Energy Services). Cement did Circulate. PD. at 12:30 PM. on 7/24/14.

Surveys: 2.0 Deg. at 630'(Surface Casing); 0.50 Deg. at 714'(Bit Trip); 0.75 Deg. at 4210'(Bit Trip); 0.75 Deg. at 4410'(DST #1); 1.0 Deg. at 4790'(DST #3).


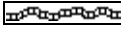
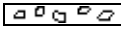
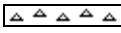
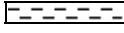







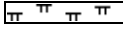

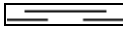
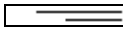
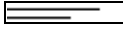



Pipe Strap at 4210'(Bit Trip): Strap 0.65' Short to the Board, no correction made to the Board.

After review of the Halliburton Logs, DST data and apparent lack of commercial amounts of recoverable hydrocarbons, the operator elected to Plug and Abandon the #3-29 Rosenberger at RTD. 4805' on 7/31/14.








































































LOG TOPS: Chase 2440(-237), Stotler Lmst. 3386(-1183), Howard 3590(-1387), Heebner Shale 4034(-1831), Toronto 4051(-1848), Brown Lmst. 4188(-1985), Lansing 'A' 4196(-1993), Lansing/K.C. 'H' 4357(-2154), K.C. 'I' 4407(-2204), Stark Shale 4494(-2291), Hertha 4554(-2351), Base Kansas City 4584(-2381), Marmaton 4632(-2429), Pawnee 4678(-2475), Cherokee Shale 4718(-2515), Miss. Chert 4764(-2561), Kinderhook Shale 4804(-2601).

NOTE: This log was shifted downward by 5' - 6' for correlation purposes with the Halliburton Logs.

### ROCK TYPES

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

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

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

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

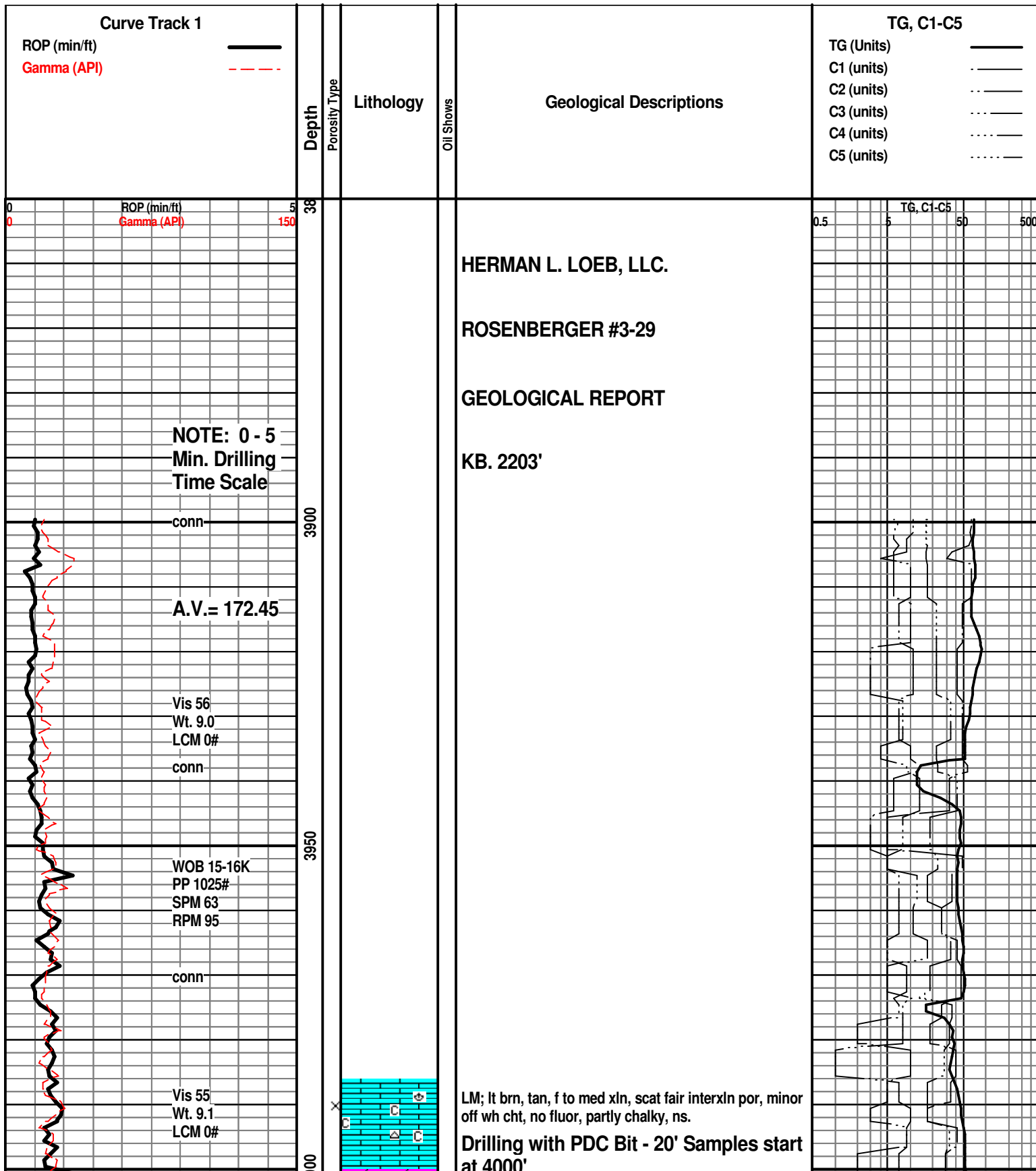
- ROUNDING**  
 [R] Rounded  
 [S] Subrnd  
 [a] Subang  
 [A] Angular

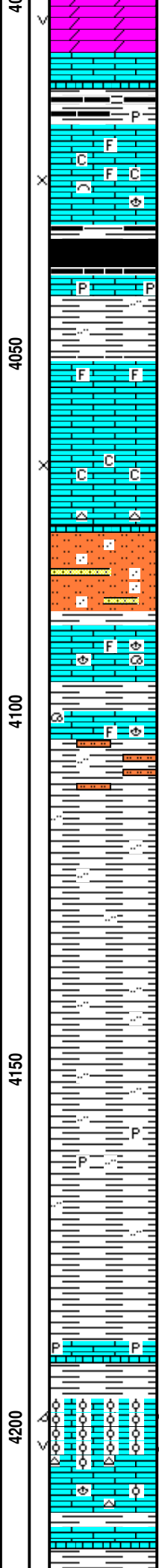
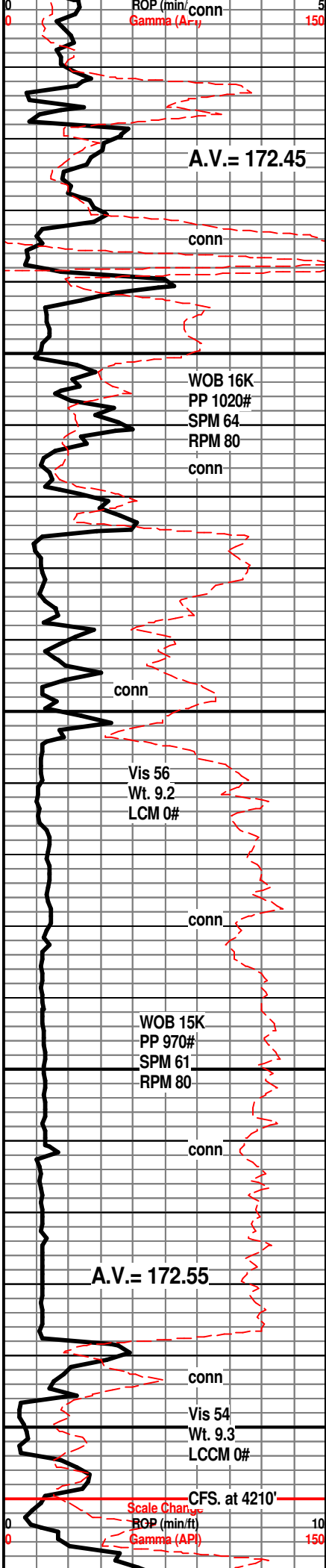
- [S] Spotted  
 [Q] Ques  
 [D] Dead

- EVENT**  
 [Rft] Rft  
 [Sd] Sidewall

- INTERVAL**  
 [C] Core  
 [D] Dst

- OIL SHOW**  
 [E] Even





DOL; lt brn, sucrosic, some lmy, fair vug por, lt yel fluor, ns.

SH; dk gy, blk, carb ip, occ pyr

LM; lt brn, gy brn, foss ip, scat poor interpart por, minor chalky mtx, dull yel fluor, ns.

**HEEBNER SHALE 4034(-1831)**  
SH; blk, carb, trc gas  
LM; med/dk brn, hd, micritic, occ pyr

SH; grn, smooth, rarely silty

**TORONTO 4051(-1848)**  
LM; tan to off wh, foss ip, most well cem, blocky ip, poor to no vis por, dull yel fluor, ns.

LM; lt gy, lt brn, off wh, f xln, fair interxln por w/scat spar calc xtals, minor chalky mtx, dull yel fluor, no vis stn, rare off wh cht, ns.

**DOUGLAS SHALE 4075(-1872)**  
SLTST; lt gy, mica, sandy ip w/occ vf gr qtz ss interbdd

LM; med brn, foss ip, blocky, hd, no vis por, scat lt yel fluor, ns.

SH; med gy grn, smooth

LM; med brn, med gy, gritty - silty text, foss ip, hd, no vis por

SH; lt to med gy, platy, occ silty

SH; lt to med gy, smooth, occ silty

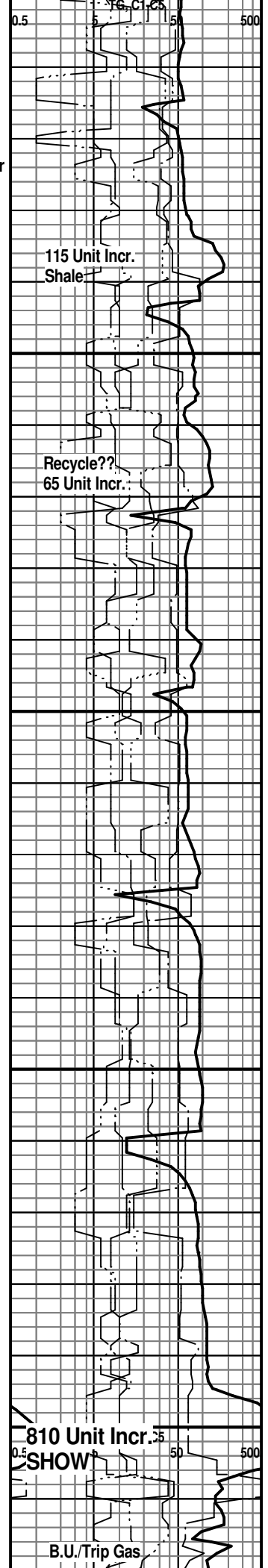
SH; med gy, smooth, platy, occ silty, rare pyr

SH; med gy, smooth, platy

**BROWN LMST. 4188(-1985)**  
LM; med brn, dense, pyr ip, hd

**LANSING 'A' 4196(-1993)**  
LM; med brn, oolitic, med to lrg. moldic por, brittle, trc vug por, sev. gas bubbles, spotted lt brn oil stn, SSFO, fair odor, poor to fair cut, some barren por.

**Bit Trip at 4210' - TIH with Button Bit**



WOB 38-40K  
PP 1020#  
SPM 58  
RPM 75

A.V.= 168.00  
conn

Vis 58  
Wt. 9.3  
LCM 0#

conn

MudCo. Mud  
Check at 4280'  
Vis 60 Wt. 9.7  
WL 10.4 CI 7000  
PH 10.0 LCM 0#

conn

WOB 41K  
PP 960#  
SPM 54  
RPM 85

conn

Vis 52  
Wt. 9.4  
LCM 0#

A.V.= 163.75  
at 54 SPM

conn

WOB 40K  
PP 990#  
SPM 54  
RPM 82

conn

DST #1  
K.C. 'I' Zone  
4396' - 4416'  
Corrected

CFS. at 4416'

conn  
CFS. at 4436'

### LANSING 'B' 4222(-2019)

LM; tan to buff, foss ip, most tite - well cem, no vis por, ns.

LM; off wh, lt gy, flxn w/fair vug por, scat soft chalk and chalky mtx, lt yel fluor, no vis stn, lt yel fluor, ns.

SH; med gy, platy, occ foss

LM; tan to lt brn, med to cse xln, scat foss mat, occ spar calc xtals, fair interxln por, minor chalky mtx, no fluor, no stn or odor, ns.

LM; tan to buff, micritic, cherty ip, tite

SH; med gy, platy, foss ip.

LM; tan to cream, f to med xln, fair interxln por, trc v. spotted med brn stn, v. faint odor, scat lt yel fluor, no apparent gas kick

LM; lt to med brn, hd, cherty ip, interbdd highly foss - pelletal lmst, fair interpart por, lt yel fluor, no stn or odor, ns.

DOL; off wh, tan, sucrosic text, scat small vug por, lt yel min fluor, no stn, ns.

LM; off wh, buff, med xln w/fair p-p and vug por, leached ip, scat cse spar calc xtals, dull yel fluor, no vis stn, poss faint odor, no apparent gas kick

LM; off wh, buff, tan, f to med xln, fair p-p and small vug por, chalky ip, dull yel fluor, ns.

SH; med gy, gy grn, foss ip.

### LANSING/K.C. 'H' 4357(-2154)

LM; tan to lt brn, foss - oolitic, med size molds, brittle, gd oomoldic w/vug por, med yel min fluor, no vis stn, no odor, quest. gas bubbles

LM; lt brn, blocky, dense, scat foss mat.

LM; lt brn, foss ip, most well cem, trc poor interpart por, no fluor, ns.

LM; tan to off wh, buff, rarely foss, most dense, scat off wh cht, no vis por, no fluor, ns.

### KANSAS CITY 'I' 4407(-2204)

LM; tan to lt brn, foss - finely pelletal w/scat ooids, weakly cem - poor/fair interpart por, spotted lt brn stn, faint odor, med yel/rare brite yel fluor, trc F.O. & gas bubbles, chalky mtx ip.

DST #1: Kansas City 'I' 4396' - 4416'  
LM; lt brn, gran - med xln, foss ip w/scat pellets and hash, fair to gd p-p and vug por, strong odor, spotted med/brite yel fluor, spotted lt brn stn, trc FO. w/few gas bubbles, very chalky mtx, barren por in bottom of zone

LM; tan to lt brn, foss ip, scat fair vug por, poss lt brn

20 Unit Incr.

15 Unit Incr.

SHOW

25 Unit Incr.

SHOW

4250

4300

4350

4400

Gamma (A)

0

10

150

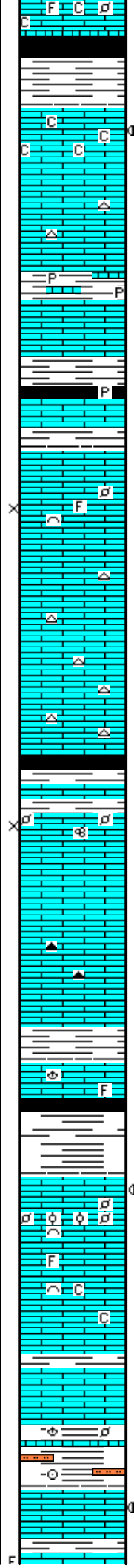
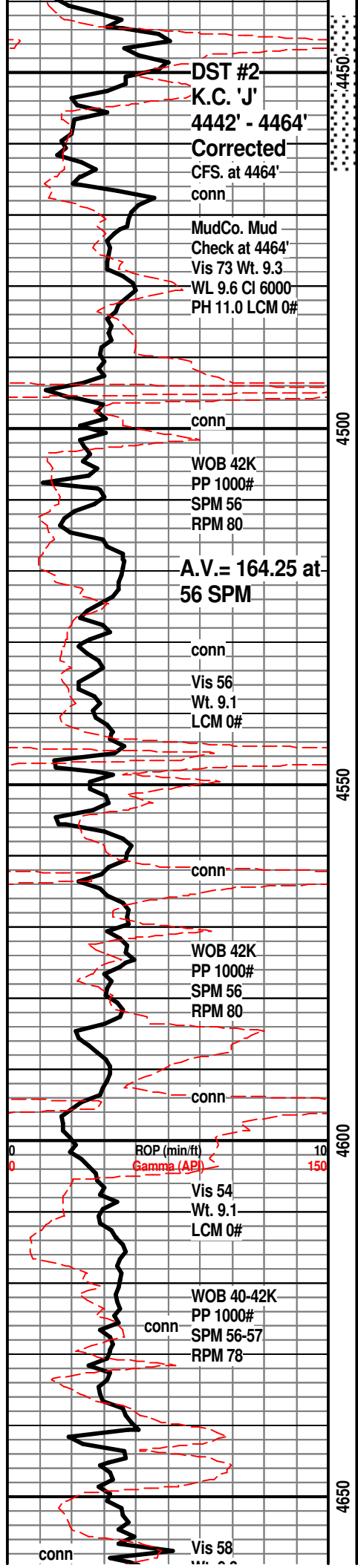
0.5

50

500

FC, C1-C8





stn, v. faint or (poss above), dull yel to no fluor, quest. oil stn, no gas kick, occ chalky

SH; dk gy, blk, platy

**KANSAS CITY 'J' 4455(-2252)**  
 LM; tan, off wh, v. chalky ip, much brite yel fluor, fair p-p and small vug por, foss w/small pellets and ooids, fair oil odor, sev. pcs w/lt brn spotted stn, gas bubbles

**DST #2: Kansas City 'J' 4442' - 4464' Corrected Depths to Log**

SH; med gy, gy grn, pyr ip, lmy

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

**STARK SHALE 4494(-2291)**  
 SH; blk, carb ip, platy, occ pyr

**SWOPE 4503(-2300)**  
 LM; off wh, wh, buff, fxln w/scat foss mat, occ poor interpart/interxln por, dull yel fluor, no stn or odor, ns.

LM; off wh, buff, hd, micritic, scat off wh/gy cht, tite

LM; lt to med brn, most dense, scat tan/off wh foss cht, no vis por, no fluor, ns.

SH; blk, carb, platy

**HERTHA 4554(-2351)**  
 LM; tan to buff, off wh, fxln w/occ sucrosic text, rare foss mat, fair interxln por, lt yel fluor, no vis stn, no odor, no gas kick

LM; tan to off wh, buff, fxln w/interbdd wh cht, no vis por, ns.

LM; med to dk brn, gy brn, hd, litho ip, tite, rare amber/smoky cht

**BASE KANSAS CITY 4584(-2381)**  
 SH; gy grn, platy, some flakey

LM; lt to med brn, foss ip, hd

SH; blk, med gy grn, some varic, silty ip.

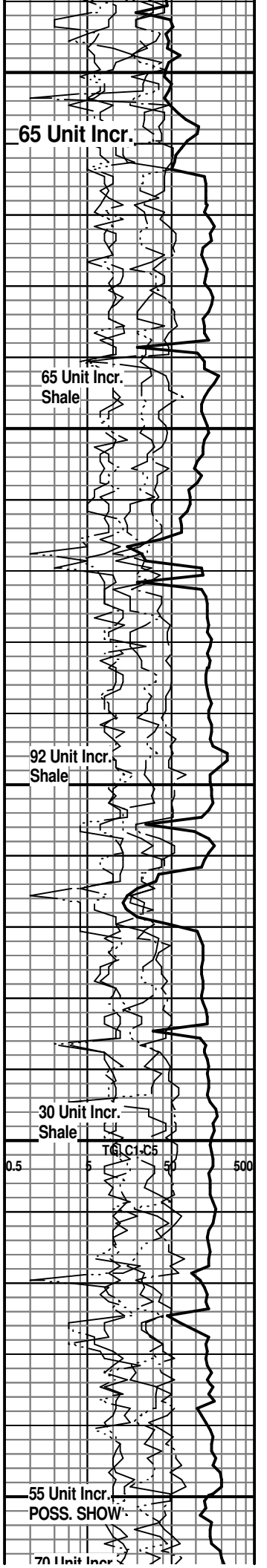
**PLEASANTON 4605(-2402)**  
 LM; tan to lt brn, occ grn argil lmst, foss w/scat well cem foss pellets and oolites, some hash, lt yel min fluor, few pcs w/dk brn spotted oil stn, no live shows

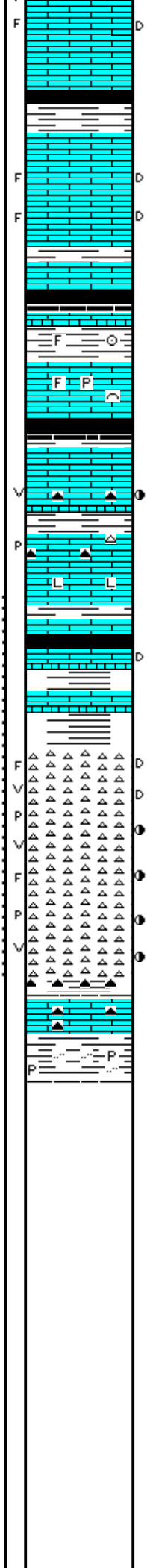
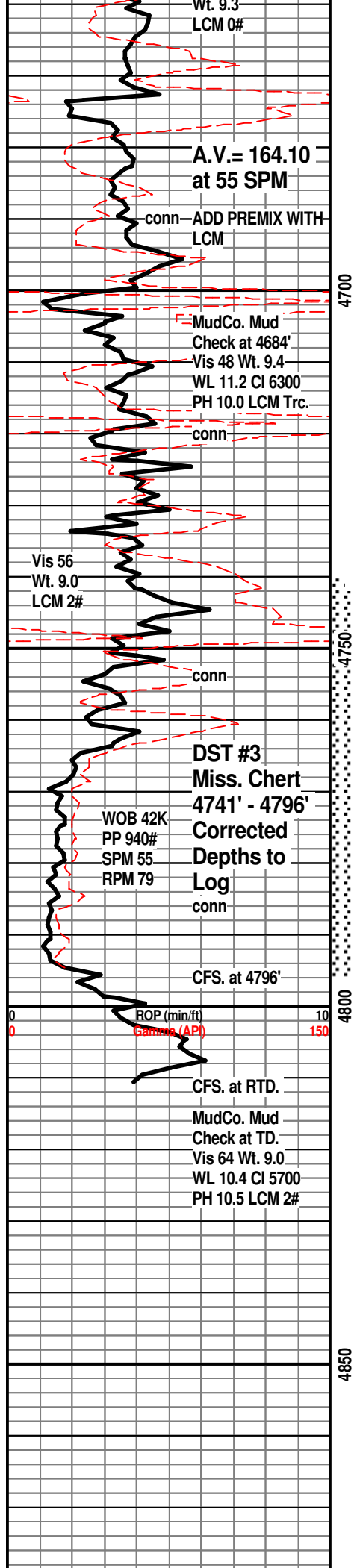
LM; lt brn, tan, foss - fxln, most dense, rare chalky mtx, dull yel min fluor, no stn or odor, ns.

**MARMATON 4632(-2429)**  
 LM; lt brn, pale gy grn, hd, blocky, argil ip, tite

SH; varic, rust red, grn, yel, foss ip, occ silty w/interbdd sltst.

LM; tan to lt brn, fxln, poss frags w/trc edge stn, dull yel fluor, no vis gas, weak/no cut





LM; lt to med brn, most dense - micritic, poss frags, scat amber/brn cht, no vis por, few pcs w/blk tar/gilsonite, no live shows

SH; dk gy, blk, platy

**PAWNEE 4678(-2475)**

LM; tan to lt brn, fxln, most dense, frags w/edge calc xtals and dead oil/tar stn, lt yel fluor, trc oily sheen on few pcs, no odor, no app. gas kick

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

SH; blk, carb, blocky, trc gas

SH; grn, gy grn, foss ip, firm

LM; tan to buff, lt brn, foss ip, most well cem, rare pyr, no vis por, no fluor, ns.

**CHEROKEE SHALE 4718(-2515)**

SH; blk, dk gy, some varic sh, platy

LM; lt gy, lt brn, fxln, most dense, scat lt to med yel fluor, interbdd org/brn cht w/vug por, occ p-p por also, scat dk brn oil stn, faint odor, fair cut

LM; tan to lt brn, hd, blocky, most micritic, some litho, no vis por, no fluor, ns.

SH; blk, carb ip, platy

LM; lt brn, fxln, poor vis interxln por, few pcs w/dk brn - blk stn, looks tite, no fluor, no apparent gas kick

**MISS. CHERT 4764(-2561)**

CHT; wh, off wh, lt gy/blue, pale org, fresh and trip, frags w/edge stn, much blk tar/dead oil, few gas bubbles, v. faint odor

CHT; wh, off wh, most fresh - sharp, weathered edges w/live oil stn, scat med/brite yel fluor, SSFO, few gas bubbles, frags, poor to fair p-p and vug por in weathered areas

CHT; wh, off wh, opaque, fresh and trip, incr. trip cht w/poor to fair p-p and vug por, spotted w/rare even med brn stn, SSFO, gas bubb., med w/v. rare brite yel fluor, faint odor

**DST #3: Miss. Chert 4741' - 4796'**

LM; grn, red, med xln, red/org fresh cht, oxidized - weathered, nodular, red/brn shales

**KINDERHOOK SHALE 4804(-2601)**

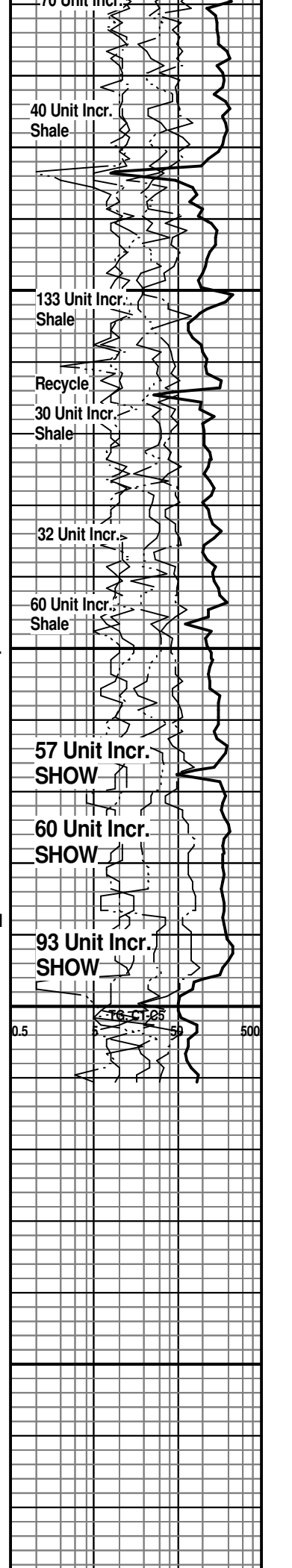
SH; med gy, gy grn, silty, occ pyr

RTD. 4805' at 11:30 AM. 7/30/14

LTD. 4814'

Halliburton ACRT, NEU/DEN w/PE, Microlog

**NOTE: This log was shifted downward by 5' - 6' for correlation purposes with the Halliburton Logs.**







6076 → T11 Rosen 3 → 6438



PAGE	CUST	YARD #	INVOICE DATE
1 of 1	1007589	1718	07/28/2014
<b>INVOICE NUMBER</b>			
<b>91551648</b>			

**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 Rosenburger 3-29  
**O** LOCATION  
**B** COUNTY Kiowa  
**S** STATE KS  
**I** JOB DESCRIPTION Cement-New Well Casing/Pi  
**T** JOB CONTACT  
**E**

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
40748179	27463		Net - 30 days	08/27/2014

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
<b>For Service Dates: 07/24/2014 to 07/24/2014</b>				
0040748179				
171810792A Cement-New Well Casing/Pi 07/24/2014				
Cement Surface				
A-Con Blend Common	200.00	EA	13.14	2,628.00 T
Common Cement	200.00	EA	11.68	2,336.00 T
Celloflake	100.00	EA	2.70	270.10 T
Calcium Chloride	940.00	EA	0.77	720.51 T
"Top Rubber Cmt Plug, 8 5/8""	1.00	EA	164.25	164.25
Flapper Type Insert Float Valves 8 5/8"	1.00	EA	204.40	204.40
"8 5/8"" Guide Shoe (Red)"	1.00	EA	401.50	401.50
"Unit Mileage Chg (PU, cars one way)"	35.00	MI	3.10	108.59
Heavy Equipment Mileage	70.00	MI	5.11	357.70
"Proppant & Bulk Del. Chgs., per ton mil	658.00	EA	1.61	1,056.75
Depth Charge; 501'-1000'	1.00	EA	876.00	876.00
Blending & Mixing Service Charge	400.00	BAG	1.02	408.80
Plug Container Util. Chg.	1.00	EA	182.50	182.50
"Service Supervisor, first 8 hrs on loc.	1.00	EA	127.75	127.75

PAID  
51860  
AUG 07 2014  
SCANNED

<b>PLEASE REMIT TO:</b>	<b>SEND OTHER CORRESPONDENCE TO:</b>	<b>SUB TOTAL</b>	<b>9,842.85</b>
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	<b>TAX</b>	<b>425.75</b>
PO BOX 841903	801 CHERRY ST, STE 2100	<b>INVOICE TOTAL</b>	<b>10,268.60</b>
DALLAS, TX 75284-1903	FORT WORTH, TX 76102		





**BASIC**<sup>SM</sup>  
ENERGY SERVICES  
PRESSURE PUMPING & WIRELINE

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

2014-7451  
**FIELD SERVICE TICKET**  
1718 10792 A

DATE \_\_\_\_\_ TICKET NO. \_\_\_\_\_

DATE OF JOB 7-24-14 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 Heiman 10015 11C		LEASE Rosenbauer WELL NO. 302								
ADDRESS		COUNTY Kiowa STATE KS								
CITY STATE		SERVICE CREW MATTAI, FRANKLIN, COBB								
AUTHORIZED BY		JOB TYPE: CNW Suckers								
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	PM	TIME
37580	.5						7-23-14			9:30
						ARRIVED AT JOB	7-24-14			4:00
27463	.5					START OPERATION				11:55
						FINISH OPERATION				12:30
19831/19862	.5					RELEASED				1:15
						MILES FROM STATION TO WELL				35

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: *X Alan Lott*  
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP 101	A-con Blat	SN	200		3600 00
CP 104C	COMMON CNT	SN	200		3200 00
CC 102	CELLULOSIC	lb	100		370 00
CC 109	calcium chloride	lb	940		987 00
CF 105	TOP RUBBER plug 8 5/8	ea	1		225 00
CF 1453	FLAPPER TYPE INSIDE 8 5/8	ea	1		280 00
CF 203	SHUT SHUT 8 5/8	ea	1		550 00
E 100	P.u. milo	Mi	35		148 75
E 101	heavy eq milo	Mi	70		490 00
E 113	PUMP + BULK OIL	TN	658		1,447 60
CE 201	DEPTH CHARGE 500-1000'	4H'	1		1,200 00
CE 240	Blend FRAX chart	SN	400		560 00
CE 504	plug coil	JOB	1		250 00
500)	SUP. V. SUR.	ea	1		175 00
SUB TOTAL					

CHEMICAL / ACID DATA:			

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

TOTAL *MC* 9,842 85

SERVICE REPRESENTATIVE Mike MATTAI

THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: *X Alan Lott*  
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.



Customer	Heiman 10-13 11c	Lease No.		Date	7-24-14						
Lease	Ross-04-15-11	Well #	3-29								
Field Order #	10492	Station	Pratt	Casing	8 5/8	Depth	630.63	County	Woods	State	KS
Type Job	CAW	Formation	Sulfur Pipe	Legal Description	29-27-18						

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME			
Casing Size	8 5/8	Tubing Size		Acid	200 500	RATE	300 cc	ISIP	
Depth	630.63	Depth		Pre Pad	200	Max	290 cc	5 Min.	
Volume	410.1	Volume		Pad		Min		10 Min.	
Max Press	900	Max Press		Frac		Avg		15 Min.	
Well Connection		Annulus Vol.				HHP Used		Annulus Pressure	
Plug Depth	575.21	Packer Depth		Flush	37.5	Gas Volume		Total Load	

Customer Representative	Mick Polly	Station Manager	Kevin Quinlan	Treater	Mik Matta
-------------------------	------------	-----------------	---------------	---------	-----------

Service Units	37554	27403	19831	19862				
Driver Names	Mama	Frankie	ROBB					

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
3:50 AM					ON location / setting annulus
10:35					run 8 5/8 casing
10:52					casing on bottom
11:40					H2O up to casing / break circ w. H2O
11:55	200		3	5	Pump 3 BBLs H2O
12:09	250		88	6.5	Ann 200 500 Acid
12:16	300		43	6	Mix 200 300 common
12:21	-		-	-	Release plug
12:21	300		-	5	Start Disl
12:30	500		37.5		Plug down, release + hold 20 BBL to pit
					JOB complete
					Thank you!
					Mik Matta



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Herman L. Loeb, LLC.  
 P.O. Box 838  
 Lawrenceville, IL 62439  
 ATTN: Jon Christensen

**29-27s-16w Kiowa Co., KS**  
**Rosenberger 3-29**  
 Job Ticket: 54160      **DST#: 1**  
 Test Start: 2014.07.27 @ 19:12:32

## GENERAL INFORMATION:

Formation: **KC "I"**  
 Deviated: No      Whipstock: 0.00 ft (KB)  
 Time Tool Opened: 21:38:47  
 Time Test Ended: 02:07:32  
 Interval: **4390.00 ft (KB) To 4410.00 ft (KB) (TVD)**  
 Total Depth: 4410.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches      Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Ryan Reynolds  
 Unit No: 68  
 Reference Elevations: 2203.00 ft (KB)  
 2192.00 ft (CF)  
 KB to GR/CF: 11.00 ft

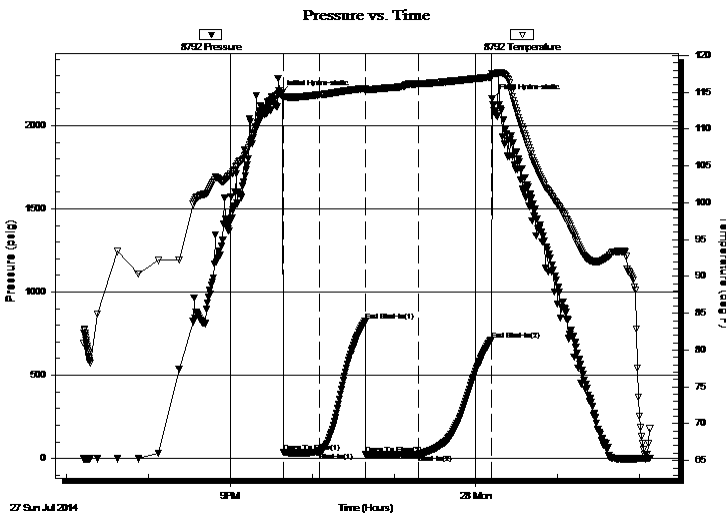
## Serial #: 8792

**Outside**

Press @ Run Depth: 26.30 psig @ 4391.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2014.07.27      End Date: 2014.07.28      Last Calib.: 2014.07.28  
 Start Time: 19:12:37      End Time: 02:07:31      Time On Btm: 2014.07.27 @ 21:36:32  
 Time Off Btm: 2014.07.28 @ 00:11:47

TEST COMMENT: IF: Weak surf. blow throughout.  
 IS: No blow.  
 FF: No blow.  
 FS: No blow.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2189.81	114.89	Initial Hydro-static
3	37.84	114.35	Open To Flow (1)
29	39.87	114.66	Shut-In(1)
63	823.73	115.51	End Shut-In(1)
63	23.69	115.13	Open To Flow (2)
101	26.30	116.16	Shut-In(2)
155	713.28	117.06	End Shut-In(2)
156	2162.03	117.53	Final Hydro-static

## Recovery

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

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Herman L. Loeb, LLC.  
P.O. Box 838  
Lawrenceville, IL 62439  
ATTN: Jon Christensen

**29-27s-16w Kiowa Co., KS**  
**Rosenberger 3-29**  
Job Ticket: 54160      **DST#: 1**  
Test Start: 2014.07.27 @ 19:12:32

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 10.00 lb/gal	Cushion Length: ft	Water Salinity:	7000 ppm
Viscosity: 60.00 sec/qt	Cushion Volume: bbl		
Water Loss: 10.39 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 7000.00 ppm			
Filter Cake: 0.08 inches			

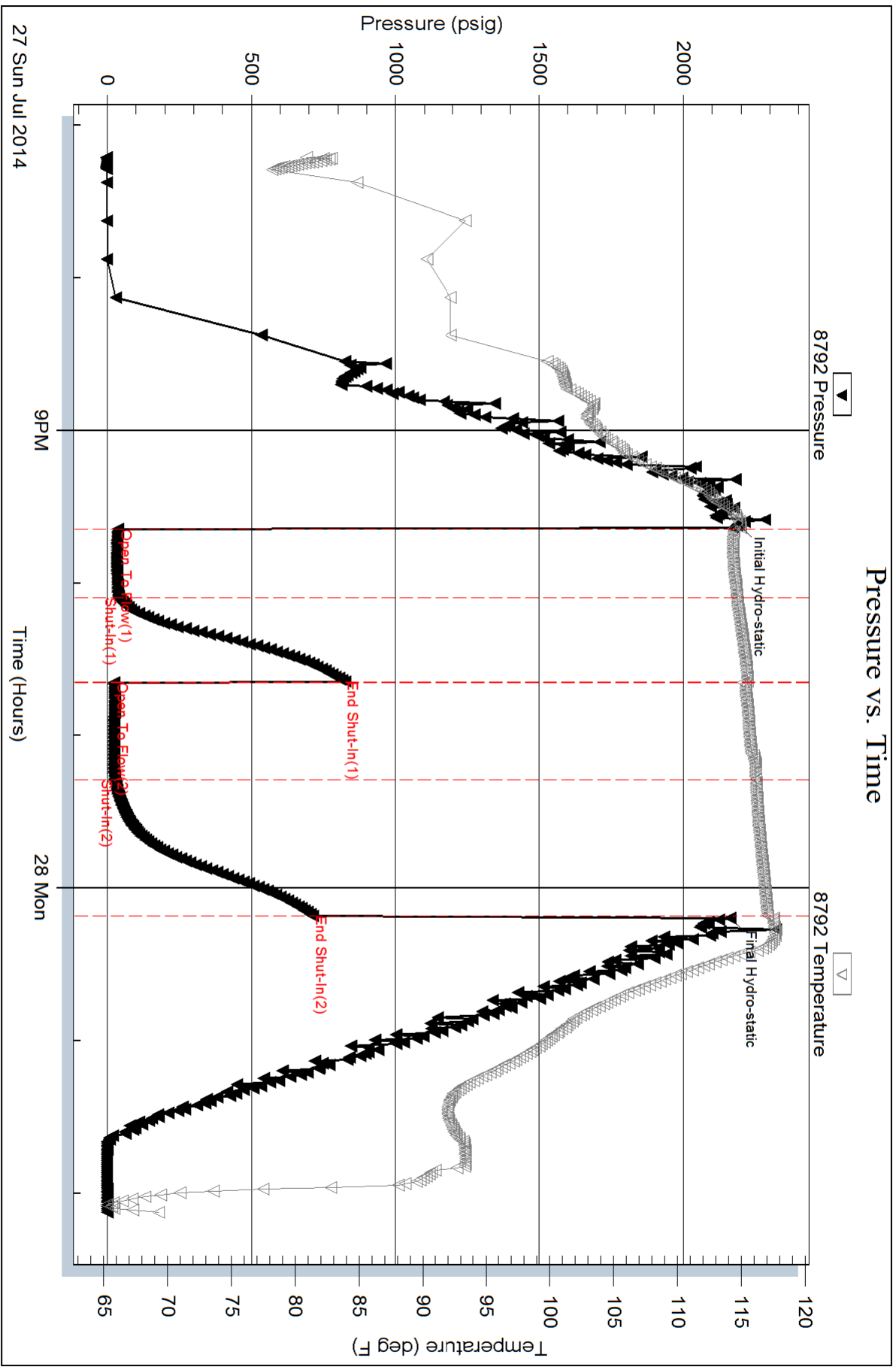
## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Drig mud 100%m	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:







**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Herman L. Loeb, LLC.  
P.O. Box 838  
Lawrenceville, IL 62439  
ATTN: Jon Christensen

**29-27s-16w Kiowa Co., KS**  
**Rosenberger 3-29**  
Job Ticket: 54161      **DST#: 2**  
Test Start: 2014.07.28 @ 10:52:40

## GENERAL INFORMATION:

Formation: **KC "J"**  
Deviated: No    Whipstock: 0.00 ft (KB)  
Time Tool Opened: 12:54:55  
Time Test Ended: 18:43:40  
Interval: **4436.00 ft (KB) To 4458.00 ft (KB) (TVD)**  
Total Depth: 4458.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches    Hole Condition: Fair  
Reference Elevations: 2203.00 ft (KB)  
2192.00 ft (CF)  
KB to GR/CF: 11.00 ft  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Ryan Reynolds  
Unit No: 68

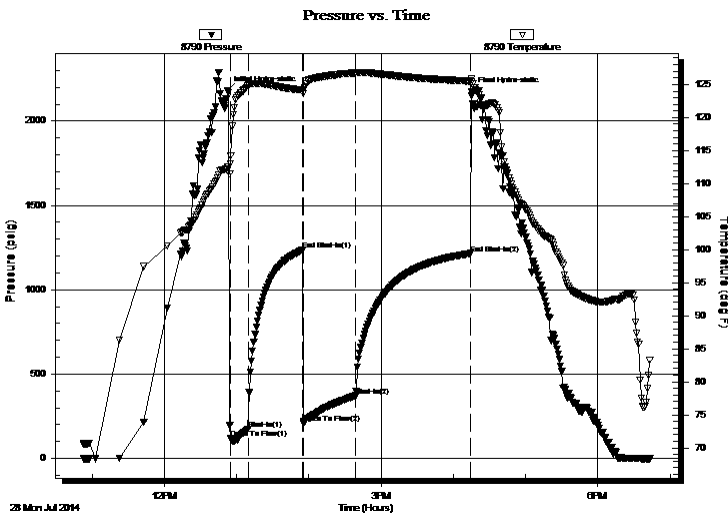
## Serial #: 8790

Inside

Press @ Run Depth: 372.56 psig @ 4437.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2014.07.28      End Date: 2014.07.28      Last Calib.: 2014.07.28  
Start Time: 10:52:45      End Time: 18:43:39      Time On Btm: 2014.07.28 @ 12:52:10  
Time Off Btm: 2014.07.28 @ 16:14:55

TEST COMMENT: IF: Strong blow . BOB @ 1min.  
IS: Good blow . surf. - 6"  
FF: Strong blow . BOB @ 1min. NO GTS.  
FS: Fair blow . surf. - 3"

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2179.45	112.46	Initial Hydro-static
3	119.86	112.96	Open To Flow (1)
18	175.53	124.88	Shut-In(1)
63	1234.82	124.16	End Shut-In(1)
64	210.71	123.64	Open To Flow (2)
107	372.56	126.75	Shut-In(2)
202	1215.19	125.51	End Shut-In(2)
203	2172.32	125.81	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
615.00	GCW 2%g, 98%w	5.63
150.00	WOGCM 15%w, 22%o, 23%g, 40%m	2.10
0.00	1765' GIP	0.00

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Herman L. Loeb, LLC.  
P.O. Box 838  
Lawrenceville, IL 62439  
ATTN: Jon Christensen

**29-27s-16w Kiowa Co., KS**  
**Rosenberger 3-29**  
Job Ticket: 54161      **DST#: 2**  
Test Start: 2014.07.28 @ 10:52:40

## Mud and Cushion Information

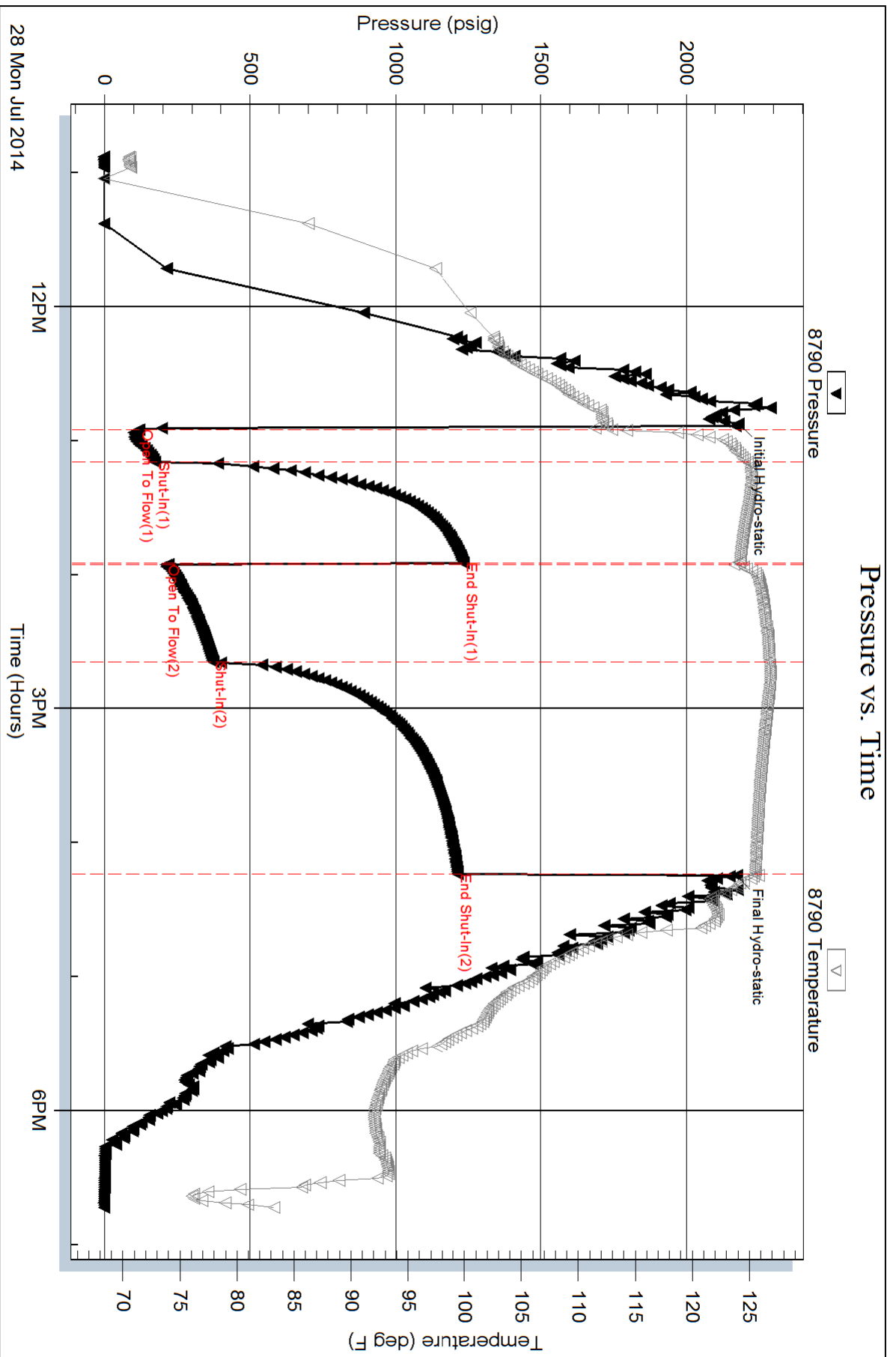
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	74000 ppm
Viscosity: 73.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.59 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 6000.00 ppm			
Filter Cake: 0.08 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
615.00	GCW 2%g, 98%w	5.630
150.00	WOGCM 15%w , 22%o, 23%g, 40%m	2.104
0.00	1765' GIP	0.000

Total Length: 765.00 ft      Total Volume: 7.734 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #: none  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Herman L. Loeb, LLC.  
P.O. Box 838  
Lawrenceville, IL 62439  
ATTN: Jon Christensen

**29-27s-16w Kiowa Co., KS**  
**Rosenberger 3-29**  
Job Ticket: 54162      **DST#: 3**  
Test Start: 2014.07.29 @ 22:46:36

## GENERAL INFORMATION:

Formation: **Miss. Chert**  
Deviated: No Whipstock: 0.00 ft (KB)  
Time Tool Opened: 01:01:06  
Time Test Ended: 06:35:51  
Interval: **4735.00 ft (KB) To 4790.00 ft (KB) (TVD)**  
Total Depth: 4790.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Ryan Reynolds  
Unit No: 68  
Reference Elevations: 2203.00 ft (KB)  
2192.00 ft (CF)  
KB to GR/CF: 11.00 ft

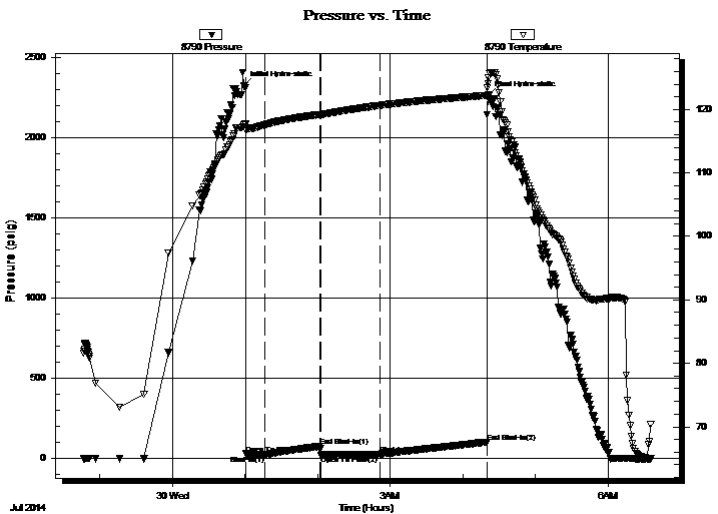
## Serial #: 8790

Inside

Press@RunDepth: 26.79 psig @ 4744.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2014.07.29      End Date: 2014.07.30      Last Calib.: 2014.07.30  
Start Time: 22:46:41      End Time: 06:35:50      Time On Btm: 2014.07.30 @ 00:59:21  
Time Off Btm: 2014.07.30 @ 04:20:51

TEST COMMENT: IF: Weak blow . surf. - 3"  
IS: No blow .  
FF: Weak blow . surf. - 3"  
FS: No blow .

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2322.92	117.63	Initial Hydro-static
2	28.09	116.72	Open To Flow (1)
17	21.32	117.58	Shut-In(1)
63	75.16	119.21	End Shut-In(1)
64	20.93	119.20	Open To Flow (2)
112	26.79	120.63	Shut-In(2)
201	102.31	122.21	End Shut-In(2)
202	2265.36	124.03	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	Drig mud 100% m	0.05
0.00	60' GIP	0.00

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Herman L. Loeb, LLC.  
P.O. Box 838  
Lawrenceville, IL 62439  
ATTN: Jon Christensen

**29-27s-16w Kiowa Co., KS**  
**Rosenberger 3-29**  
Job Ticket: 54162      **DST#: 3**  
Test Start: 2014.07.29 @ 22:46:36

### 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:	6300 ppm
Viscosity: 48.00 sec/qt	Cushion Volume: bbl		
Water Loss: 11.18 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 6300.00 ppm			
Filter Cake: 0.08 inches			

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Drig mud 100%m	0.049
0.00	60' GIP	0.000

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

