



KANSAS CORPORATION COMMISSION 1085589  
OIL & GAS CONSERVATION DIVISION

Form ACO-1  
June 2009  
Form Must Be Typed  
Form must be Signed  
All blanks must be Filled

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 3273  
Name: HERMAN L. LOEB, LLC  
Address 1: PO BOX 838  
Address 2: \_\_\_\_\_  
City: LAWRENCEVILLE State: IL Zip: 62439 + \_\_\_\_\_  
Contact Person: Jesse R. Middagh  
Phone: ( 618 ) 943-2227  
CONTRACTOR: License # 5142  
Name: Sterling Drilling Company  
Wellsite Geologist: Jon Christensen  
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  
 Conv. to GSW  
 Plug Back: \_\_\_\_\_ Plug Back Total Depth  
 Commingled    Permit #: \_\_\_\_\_  
 Dual Completion    Permit #: \_\_\_\_\_  
 SWD    Permit #: \_\_\_\_\_  
 ENHR    Permit #: \_\_\_\_\_  
 GSW    Permit #: \_\_\_\_\_

<u>06/07/2012</u>	<u>06/17/2012</u>	<u>07/21/2012</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-135-25390-00-00  
Spot Description: \_\_\_\_\_  
SE NW SE SW Sec. 10 Twp. 16 S. R. 26  East  West  
950 Feet from  North /  South Line of Section  
1940 Feet from  East /  West Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
 NE     NW     SE     SW  
County: Ness  
Lease Name: PETERS 'D' Well #: 3-10  
Field Name: \_\_\_\_\_  
Producing Formation: Mississippi Warsaw Dolomite  
Elevation: Ground: 2621 Kelly Bushing: 2632  
Total Depth: 4625 Plug Back Total Depth: 4612  
Amount of Surface Pipe Set and Cemented at: 352 Feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set: 2049 Feet  
If Alternate II completion, cement circulated from: 2049  
feet depth to: 0 w/ 575 sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: 2100 ppm Fluid volume: 738 bbls  
Dewatering method used: Evaporated  
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

- Letter of Confidentiality Received  
Date: \_\_\_\_\_  
 Confidential Release Date: \_\_\_\_\_  
 Wireline Log Received  
 Geologist Report Received  
 UIC Distribution  
ALT  I  II  III Approved by: Deanna Gertzel Date: 10/01/2012



1085589

Operator Name: HERMAN L. LOEB, LLC Lease Name: PETERS 'D' Well #: 3-10  
 Sec. 10 Twp. 16 S. R. 26  East  West County: Ness

**INSTRUCTIONS:** Show important tops and base 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. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken (Attach Additional Sheets)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Name Attached	Top Attached Datum Attached
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Electric Log Run	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Electric Log Submitted Electronically (If no, Submit Copy)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
List All E. Logs Run:			
Microlog Dual Induction Log Neutron Density w/PE			

CASING RECORD <input checked="" 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
Surface	12.25	8.625	24.0	352	60/40 Poz	215	Ticket #06503
Production	7.875	5.5	15.5	4623	50/50 Poz	150	Ticket #05927A

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
— Perforate				
— Protect Casing	768-2049	60/40	375	
— Plug Back TD				
— Plug Off Zone	0-768	60/40	200	

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
3	14 foot perf interval (42 shots)	Shot	4554 - 4568
	Bridge Plug	CIBP	4612
	Acid Job	500 gal 15% MCA/Fe	4554 - 4568
	Acid Job	2000 gal MOD 202	4554 - 4568

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
Date of First, Resumed Production, SWD or ENHR. 07/25/2012	Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____			
Estimated Production Per 24 Hours	Oil Bbls. 10	Gas Mcf	Water Bbls. 70	Gas-Oil Ratio Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease (If vented, Submit ACO-18.)	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled (Submit ACO-5) (Submit ACO-4) <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: 4554 - 4568
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Form	ACO1 - Well Completion
Operator	HERMAN L. LOEB, LLC
Well Name	PETERS 'D' 3-10
Doc ID	1085589

Tops

Anhydrite	2065	+567
Base Anhydrite	2104	+528
Heebner Shale	3905	-1273
Toronto	3921	-1289
Lansing 'A'	3946	-1314
Lansing/KC 'H'	4114	-1482
KC 'I'	4138	-1506
Stark Shale	4191	-1559
Base Kansas City	4244	-1612
Marmaton	4288	-1656
Pawnee	4385	-1753
Fort Scott	4449	-1817
Cherokee Shale	4474	-1842
Miss. Unconformity	4537	-1905
Miss. Warsaw	4544	-1912

## LITHOLOGY STRIP LOG

WellSight Systems

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

Well Name: Peters "D" #3-10  
Location: 950' FSL & 1940' FWL, Sec. 10-T16S-R26W, Ness Co., KS.  
Licence Number: 15-135-25390-0000 Region: Unice NE  
Spud Date: 6/7/2012 Drilling Completed: 6/17/2012  
Surface Coordinates: 950' FSL & 1940' FWL, Sec. 10-T16S-R26W, Ness Co.

Bottom Hole Same as above

Coordinates:

Ground Elevation (ft): 2621' K.B. Elevation (ft): 2632'

Logged Interval (ft): 3800' To: 4625' Total Depth (ft): 4625'

Formation: Mississippian at Total Depth

Type of Drilling Fluid: Freshwater/Gel to 3359'; Chemical Gel 3359' to 4625'

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(L/KC. 'H' + 'I' zones) 4104' - 4154'(Corrected Depths to Log) Test Times 15"-45"-45"-90" IFP Weak Blow built to 4.5", FFP Fair Blow built to 8", no Blowback on SI's; REC: 15' Drilling mud w/rainbow SO, 280' SW(CI 95,000, Mud 2400); IFP 24-78#, ISIP 1214#, FFP 86-155#, FSIP 1192#, IHP 2020#, FHP 1953#, BHT 119 Deg. F.

DST #2(Fort Scott/Upper Cherokee Lmst). 4434' - 4482'(Corrected Depth to Log) Test Times 15"-45"-30"-60" IFP Weak surface Blow died in 11", FFP no Blow, no Blowback on SI's; REC: 30' Drlg mud, no shows; IFP 17-18#, ISIP 272#, FFP 18-20#, FSIP 75#, IHP 2276#, FHP 2133#, BHT 119 Deg. F.

DST #3(Miss. Dolomite) 4543' - 4564'(Corrected Depths to Log) Test Times 30"-60"-30"-60" IFP Weak Blow built to 4", FFP Dead at open, after 15" had Weak Surface Blow that built to 1/8" in 30"; no Blowback on SI's; REC: 15' CGO(5%G, 95%O - 37 Deg. API), 60' OCM(10%O, 90%M), 75' GHOCWM(25%G, 55%O, 10%W, 10%M) not enough water to determine CI; IFP 20-60#, ISIP 973#, FFP 101-100#, FSIP 877# and Building; IHP 2337#, FHP 2165#, BHT 124 Deg. F.

### Comments

6/6/12 MIRU Sterling Drilling Rig #2; 6/7/12 Spud at 1:00 AM., TD. 352' - W/O welder to weld Surface Casing straps; 6/8/12 Drilling at 1269'; 6/9/12 Drilling at 2033'; 6/10/12 Drilling at 2804'; 6/11/12 Drilling at 3305'; 6/12/12 Drilling at 3525'; 6/13/12 Drilling at 3990'; 6/14/12 TD. 4156' - DST #1; 6/15/12 Drilling at 4391'; 6/16/12 Drilling at 4495'; 6/17/12 RTD. 4625' at 6:15 AM., CCH for Logs, LTD. 4625'; 6/18/12 RTD. 4625', LTD. 4625' - Cementing Production Casing.

Set new 8 5/8" 23# Surface casing at 352' with 215 sx. of Cement(Basic Energy Services). Cement did Circulate. PD. 10:00 AM. 6/7/12.

Set new 5 1/2"(15.5#) Production Casing at 4623' with 150 sx. of "Loeb Blend"(Basic Energy Services). Port Collar at 2080'. PD. 7:45 AM. 6/18/12.

Surveys: 1 Deg. at 352'(Surface Casing); 0.25 Deg. at 4156'(DST #1); 0.75 Deg. at 4484'(DST #2); 0.50 Deg. at 4625' RTD.

After review of the Superior Logs, DST data and positive indications of commercial amounts of hydrocarbons, the operator elected to set new 5 1/2" (15.5#) Production Casing for completion in the Mississippi Warsaw dolomite.

LOG TOPS: Anhydrite 2065(+567), Base Anhydrite 2104(+528), Heebner Shale 3905(-1273), Toronto 3921(-1289), Lansing 'A' 3946(-1314), Lansing/KC 'H' 4114(-1482), KC 'I' 4138(-1506), Stark Shale 4191(-1559), Base Kansas City 4244(-1612), Marmaton 4288(-1656), Pawnee 4385(-1753), Fort Scott 4449(-1817), Cherokee Shale 4474(-1842), Miss. Unconformity 4537(-1905), Miss. Warsaw dolomite 4544(-1912).

NOTE: This log was shifted upward by 1' to 2' for correlation purposes with the Superior Well Service Logs.

### ROCK TYPES

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

### ACCESSORIES

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

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

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

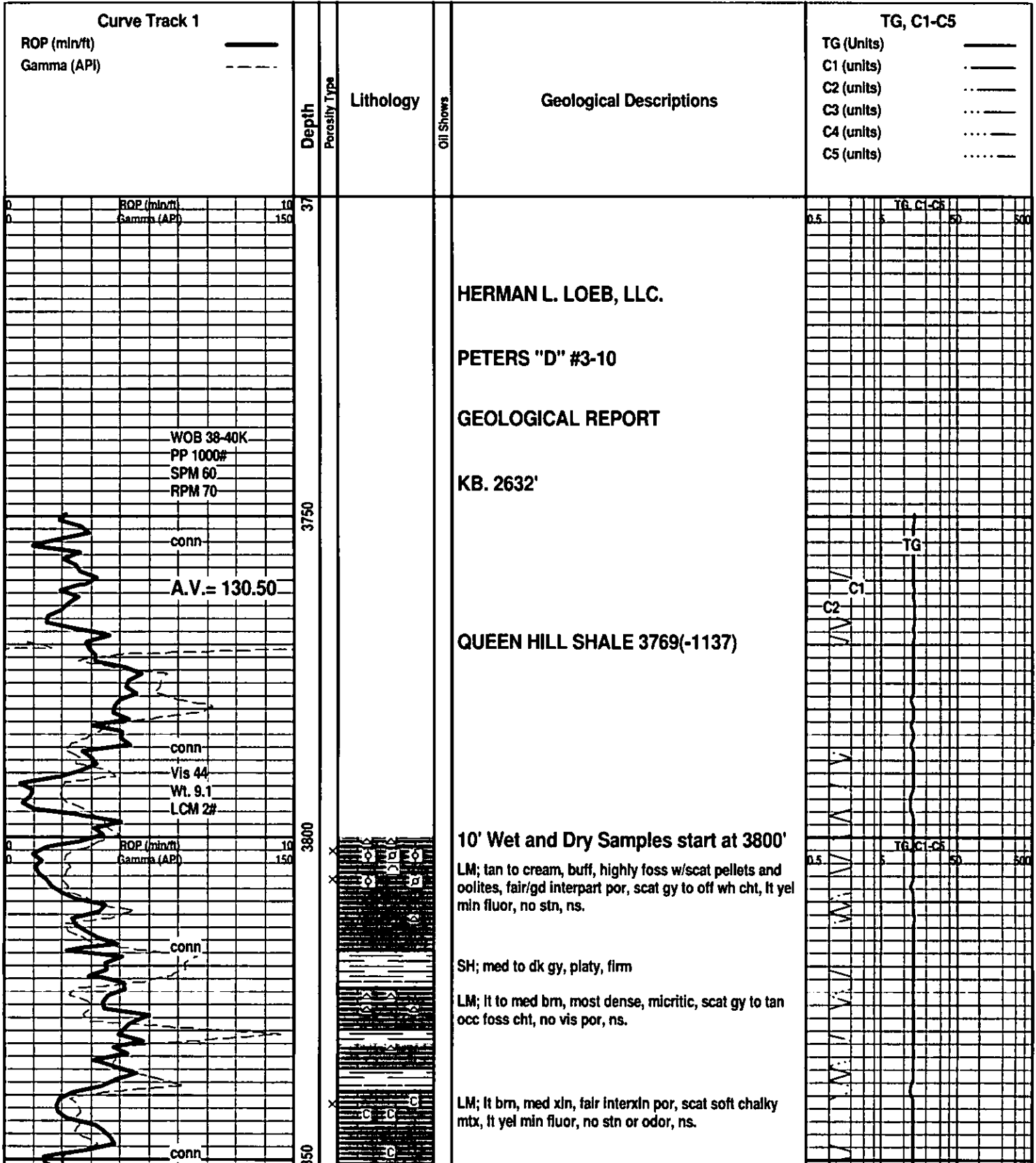
- ROUNDING**  
 [R] Rounded  
 [r] Subrnd  
 [a] Subang  
 [A] Angular

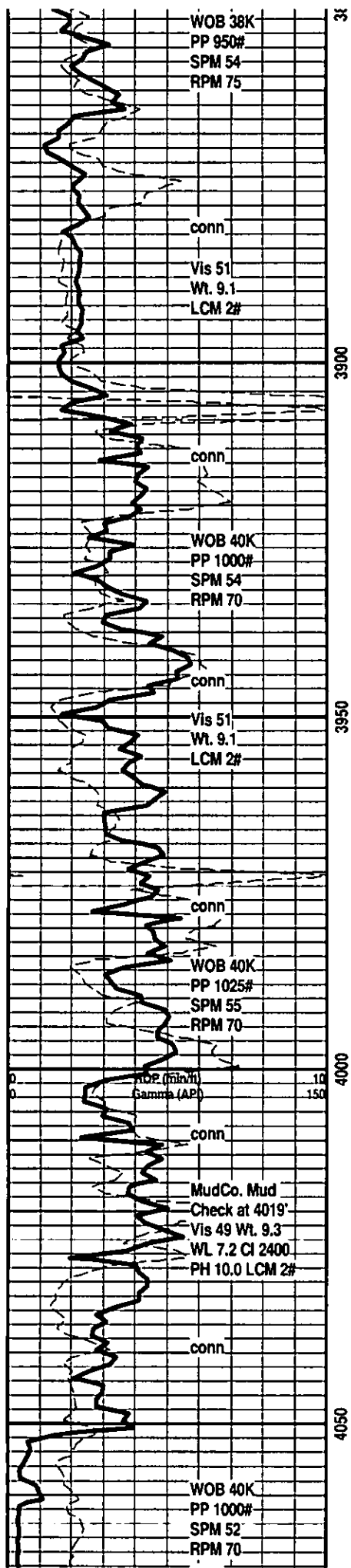
- [9] Spotted  
 [Q] Ques  
 [D] Dead

- EVENT**  
 [V] Rft  
 [▲] Sidewall

- INTERVAL**  
 [■] Core  
 [□] Dst

- OIL SHOW**  
 [●] Even





LM; off wh, tan, buff, fxln w/fair interxn and scat p-p por, occ chalky mtx, dull yel fluor, no stn or odor, ns.

LM; tan to off wh, med xln w/scat cse xln, occ spar calc xtals, minor foss mat, fair to occ gd interxn por, chalky ip, lt yel fluor, ns.

LM; wh, off wh, tan, med xln w/abnt soft chalk and chalky mtx, med yel min fluor, poor to fair interxn por, no stn or odor, ns.

**HEEBNER SHALE 3905(-1273)**  
SH; blk, v. dk gy, soft to blocky, carb ip.  
LM; med brn, blocky, dense

SH; med gm, silty ip, firm, rarely pyr

**TORONTO 3921(-1289)**  
LM; lt gy, wh, off wh, med xln, scat sucrosic text, partly dolomitic, interbdd wh to off wh fresh cht, scat lt yel fluor, poor to fair interxn w/occ small vug por, no stn or odor, ns.

SH; gm, gy, rust red, platy, occ silty

**LANSING 'A' 3946(-1314)**  
LM; off wh, tan, buff, highly foss/partly oolitic at top w/gd interpart por, most dense, blocky, scat off wh to wh cht, dull yel fluor, no vis stn, no odor, no gas kick, ns.

LM; tan to lt brn, hd, blocky, scat off wh cht, tite

SH; dk gy, blk, platy  
LM; med to dk brn, blocky, hd

SH; med gy, gm, platy, silty ip.

LM; tan to off wh, foss - partly oolitic/pelletal, fair interpart por, minor soft chalky mtx, lt yel min fluor, no stn or odor, scat tan/wh cht, ns.

LM; tan to lt brn, buff, med xln, scat foss mat, fair interxn w/poor p-p por also, dull to occ lt yel fluor, no vis stn, interbdd wh to org cht, no gas kick, ns.

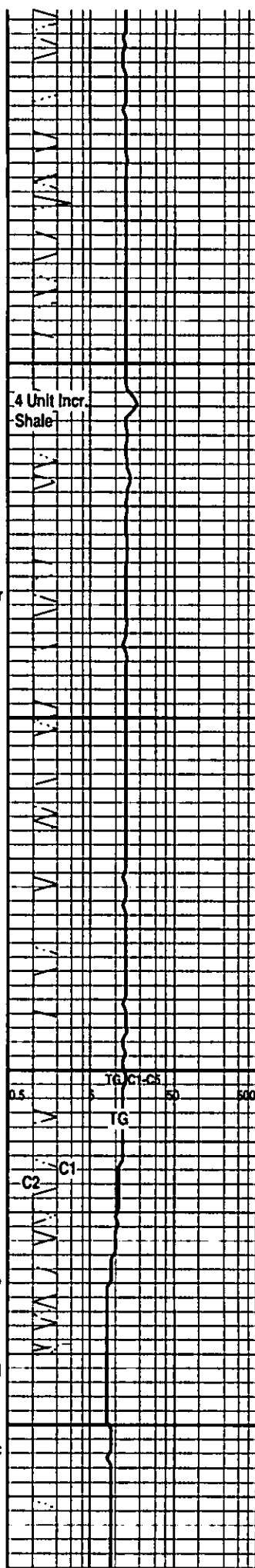
SH; dk gy, trc blk, platy  
LM; med gy, hd, blocky, dense

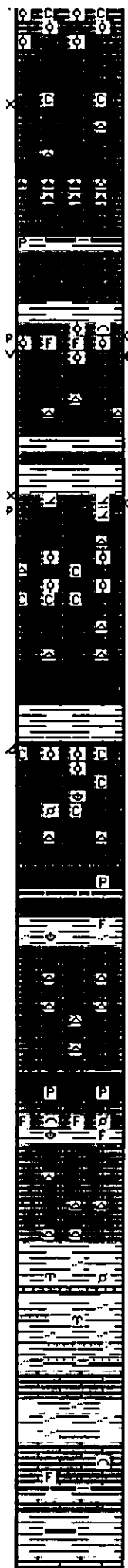
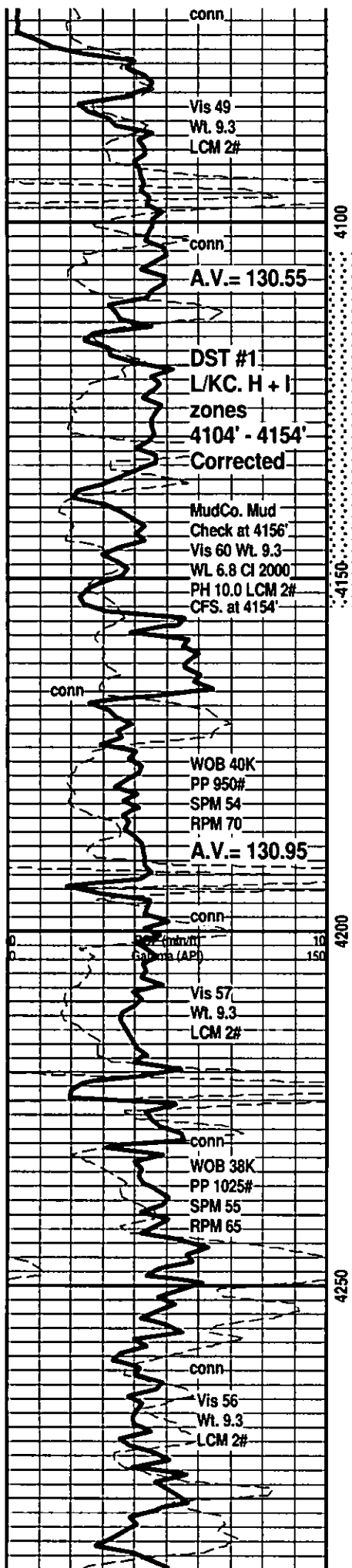
LM; off wh, tan, f to med xln, interbdd dense micrite, hd, no vis por, cherty ip, ns.

LM; tan to buff, off wh, fxln to sucrosic text, partly dolomitic, gd interxn por, occ soft chalky mtx, lt to med yel fluor, no stn or odor, ns.

LM; lt to med brn, oolitic, most small to med size moldic por, brittle ip, most w/gd oomoldic and occ vug por, med yel min fluor, no stn or odor, barren, no gas kick, ns.

LM; lt to med brn, oolitic, med to occ lrg moldic por,





scat chalky mtx, med to occ brite yel min fluor, no stn or odor, ns.

LM; tan to cream, buff, fxln to micritic, scat poor interxln por, minor soft chalky mtx, most dense, occ wh cht, no fluor, ns.

LM; med brn, hd, micritic to litho, dense, scat amber to tan cht, tite

SH; blk, dk gy, platy, pyr ip.

**LANSING/KC. 'H' 4114(-1482)**

LM; tan to lt brn, foss - partly oolitic, occ med xln/gran text, spotted to even golden brn oil stn, fair p-p and occ small vug por, Trc. FO droplets, fair/gd odor, brite yel fluor, fair/gd cut

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

**KC. 'I' 4138(-1506)**

LM; off wh, fxdn w/sucrosic text, partly dolomitic, spotted med brn stn, faint odor, poor to fair interxln/p-p por, some very tite, med to brite yel fluor, poor/ fair cut

LM; off wh, finely oolitic ip, chalky, no stn, ns.

**DST #1: L/KC. 'H' + 'I' 4104' - 4154' Corrected Depths to Log**

LM; tan to lt brn, buff, most dense, occ cherty, tite

SH; med gy gm, firm

LM; off wh, tan, buff, oolitic ip w/gd oomoldic por, much soft chalky mtx, med yel min fluor, no stn or odor, no gas kick, barren, ns.

LM; off wh, tan, lt gy, f to med xln, scat foss mat, most well cem, occ gy/off wh cht, minor soft chalky mtx, lt yel min fluor, ns.

**STARK SHALE 4191(-1559)**

SH; blk, carb ip, soft to blocky, pyr ip.

SH; gm, gy, silty ip, foss

LM; tan to cream, buff, off wh, most hd, micritic, dense, interbdd wh/off wh cht, no vis por, no fluor, ns.

LM; med brn, hd, blocky, tite

SH; blk, v. dk gy, platy, carb ip, scat pyr

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

LM; lt gy, lt gy brn, fxln, sucrosic to gritty text, v. hd, blocky, no vis por, scat gy to off wh cht, no fluor, no stn or odor, ns.

**BASE KANSAS CITY 4244(-1612)**

SH; med gy, gm, occ varic, silty ip, thin shaly ss strngs, firm to soft

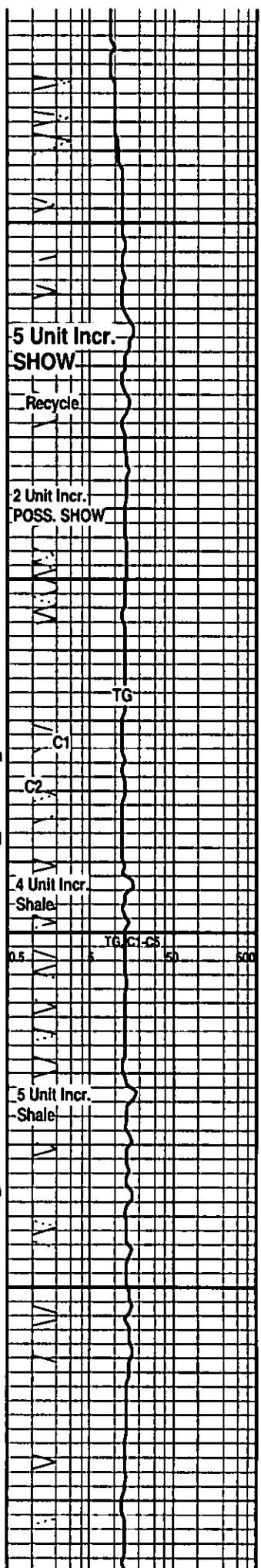
LM; med brn, hd, micritic, blocky, tite

SH; gy, gm, some varic, firm, silty ip.

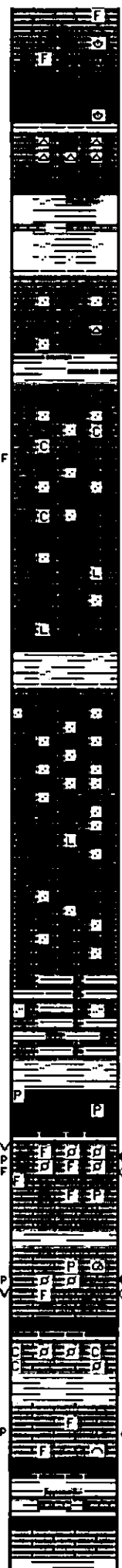
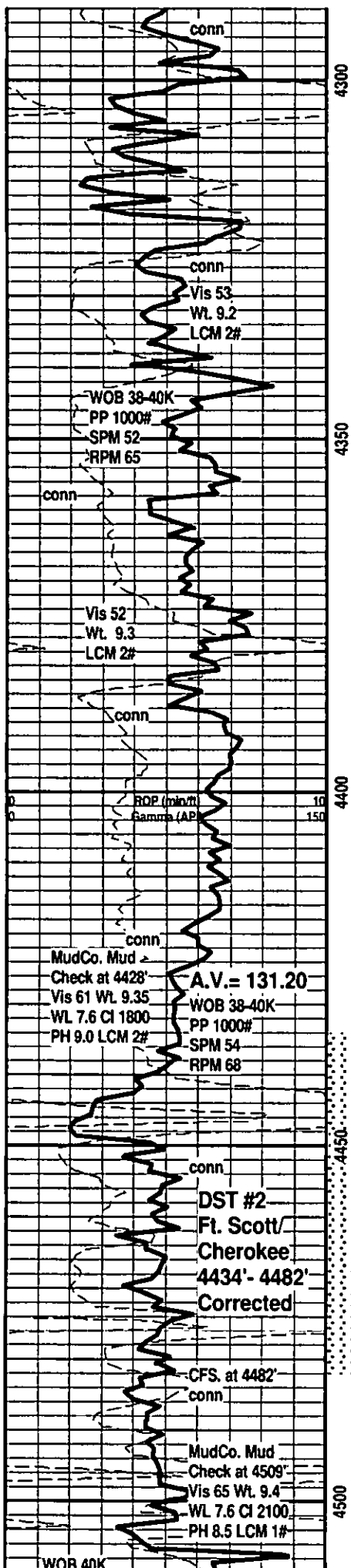
LM; lt gy, gy brn, fxln, scat well cem foss mat, no vis por, no fluor, ns.

SH; med to dk gy, rare blk, platy

**MARMATON 4288(-1656)**







LM; tan to lt brn, occ red/brn tint, foss ip, most well cem, hd, no vis por, dull yel min fluor, no stn or odor, no gas kick, ns.

SH; blk, varic, foss ip, platy

LM; tan to off wh, buff, fxln to micritic, some litho, dense, blocky, scat off wh cht, no vis por, dull yel fluor, ns.

SH; varic, soft red siltst, interbdd lt brn shaly lmst strngs.

LM; tan to off wh, dense, blocky, most micritic, tite, some sandy text

SH; maroon, varic, trc blk, platy

LM; off wh, buff, sandy text/siliceous w/interbdd f gr tzt in lmst mtz, most dense, minor chalky mtz, lt yel mln fluor only, trc fracs, faint odor, no vis stn, no gas kick, ns.

LM; med brn, occ gy brn, sandy ip, most dense, blocky, litho ip, hd, no vis por, no stn, ns.

SH; med gy grn, blk, platy, silty ip.

**PAWNEE 4385(-1753)**  
LM; med brn, rare dk brn, sandy - gritty text ip, hd, no vis por, no fluor, ns.

LM; lt brn, tan, rare off wh, sandy ip, hd, most micritic to litho, no fluor, ns.

LM; med brn, gy brn, rare tan, gritty text, sandy ip, dense, no vis por, ns.

LM; med to dk gy, occ gy brn, argil, gritty text ip.

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

**FORT SCOTT 4449(-1817)**  
LM; lt brn, foss - scat pellets, fair p-p w/scat gd vug por, trc fracs w/edge stn, sev. pcs. w/live even med golden brn stn, SSFO, few gas bubbles, med/ brite yel fluor, gd oil odor, instant cut, many pcs. tite - bleeding oil/rainbow

LM; lt brn, foss, med xln, fair p-p and small vug por, fair oil odor, med/brite yel fluor, spotted to even lt brn stn, SSFO, fair/ad cut, some tite

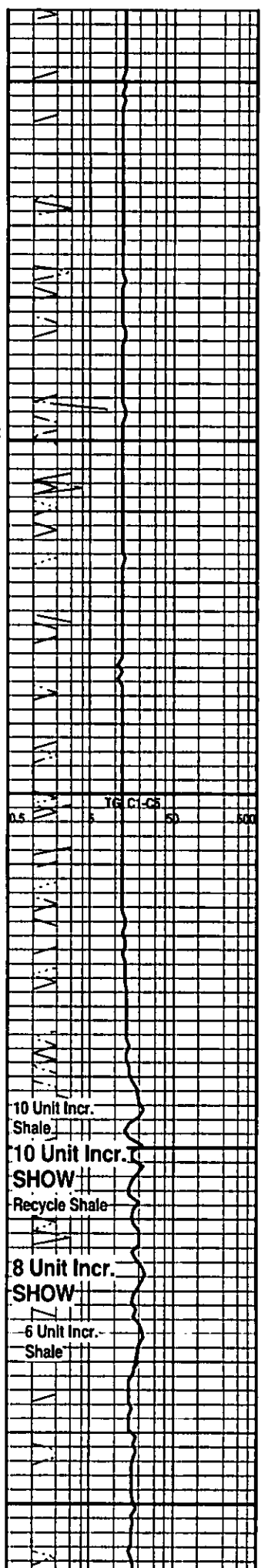
**CHEROKEE SHALE 4474(-1842)**  
SH; blk, carb ip, platy

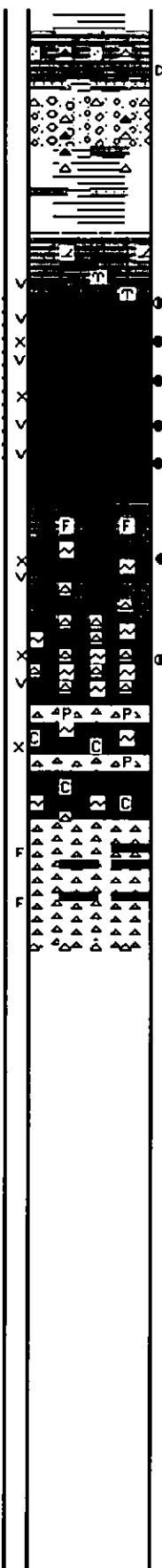
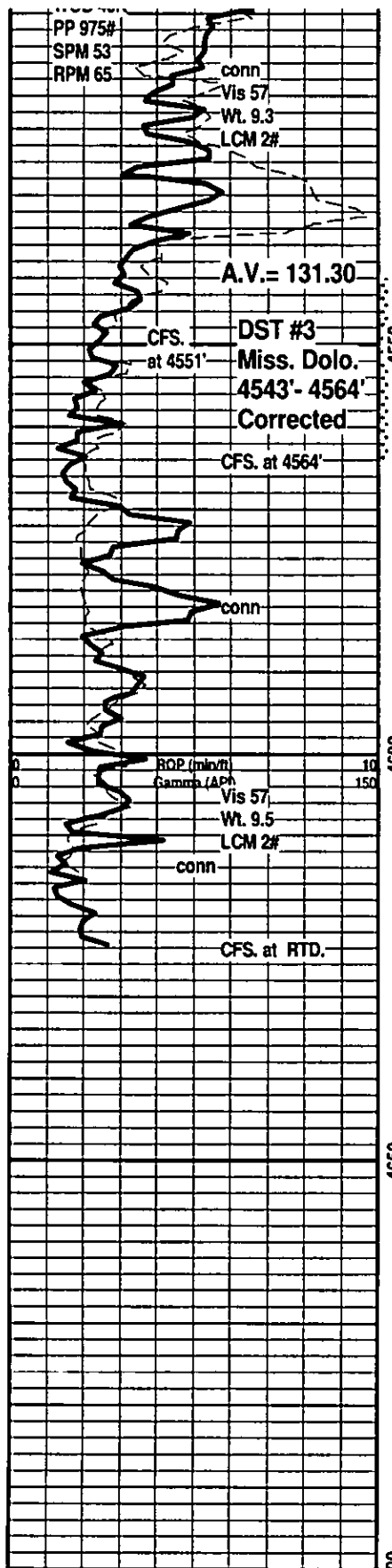
LM; off wh, tan, foss ip, finely pelletal, soft chalky mtz ip, lt yel fluor, no vis stn, no odor

**DST #2: Ft. Scott/Cher. 4434' - 4482' Corrected**  
LM; tan to lt brn, foss ip, scat poor p-p por, v. spotted dk brn oil stn, faint odor, med yel fluor, looks tite, no gas kick

SH; gm, gy grn, some blk, platy, interbdd argil lmst strng.

LM; off wh, tan, med xln w/scat cse opaque spar calc xtals, most dense, no vis por, ns.





LM; off wh, sandy w/embdd med to cse md qtz gr in mtz, hd, trc blk tar/glls, looks tite, occ dk brn/off wh cht

SH; varic, mustard yel, sandy ip w/varic cherts - org, yel, wh, some conglom. weath lmst, unconsol. f gr qtz ss

**MISS. UNCONFORMITY 4537(-1905)**

**MISS. DOLOMITE 4544(-1912)**  
 DOL; off wh, med brn(oil stn), lmy dolo/dolo lmst at top, foss ip, sucrosic to med rhombic, much gd vug por, SFO, gd odor, med golden brn spotted to even stn, med yel fluor, some lrg vug por w/oil sat, cse calc. xtals w/v. gd interpart por

CFS. at 4565': DOL; lt to med brn, sucrosic to med rhombic, well dev. vug and interxln por, GSFO, gd odor, med/brite yel fluor, streaming cut, even med brn oil stn w/some gd oil sat.

**DST #3: Miss. Dolomite 4543' - 4564' Corrected Depth to Log**

DOL; tan to lt gr, sucrosic, gd interxln w/vug por, occ gm glau, lt brn even stn, SFO, gd odor

LM; off wh, wh, tan, fxdn, scat off wh cht, tite

DOL; wh, off wh, sucrosic, abnt wh to gy fresh cht, gm glau common, fair interxln/scat small vug por, trc v. spotted lt brn stn, most barren, dull yel fluor, no odor

DOL; wh, off wh, tan, gy, sucrosic, occ chalky - soft, interbdd off wh to gy occ pyr cht, poor to fair interxln por, no stn, lt yel fluor, no odor, glau ip.

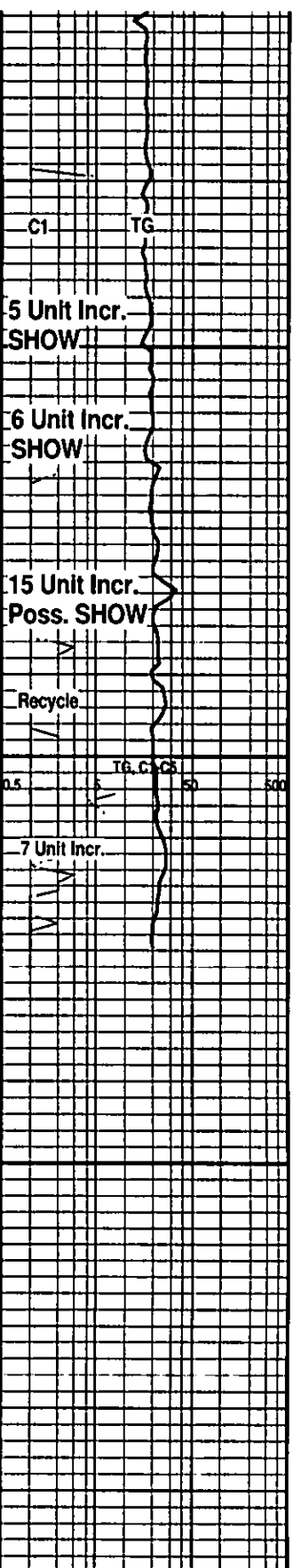
CHT; lt gy, off wh, fresh, fracs ip, partly dolomitic with interbdd wh sucrosic dolo, no fluor, no stn or odor, no sample shows

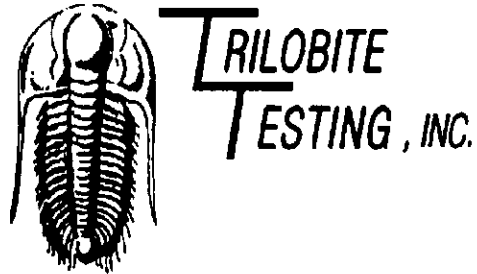
RTD. 4625' at 6:15 AM. 6/17/12

LTD. 4625'

Superior Well Services DIL, NEU/DEN with PE, Microlog

**NOTE: This log was shifted 1' to 2' for correlation purposes with the Superior Well Service logs.**





## DRILL STEM TEST REPORT

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

PO Box 838  
Lawrenceville IL 62439

ATTN: Jon Christensen

**Peters D #3-10**

**10-16s-26w Ness,KS**

Start Date: 2012.06.13 @ 21:30:30

End Date: 2012.06.14 @ 07:13:30

Job Ticket #: 49251                      DST #: 1

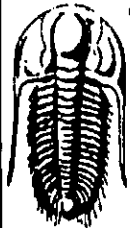
Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.06.20 @ 11:05:58

Herman L. Loeb, LLC  
10-16s-26w Ness,KS  
Peters D #3-10  
DST # 1  
KC "H-I"  
2012.06.13



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

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

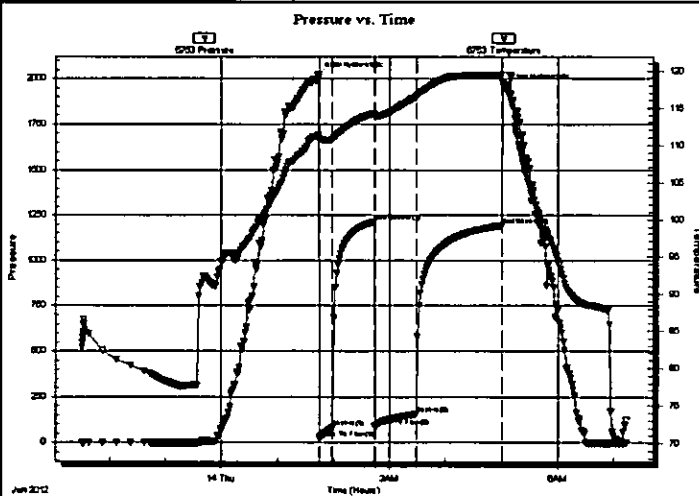
**10-16s-26w Ness,KS**  
**Peters D #3-10**  
 Job Ticket: 49251      **DST#: 1**  
 Test Start: 2012.06.13 @ 21:30:30

### GENERAL INFORMATION:

Formation: **KC "H-I"**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 01:44:30  
 Tester: Brett Dickinson  
 Time Test Ended: 07:13:30  
 Unit No: 59  
 Interval: **4106.00 ft (KB) To 4156.00 ft (KB) (TVD)**  
 Reference Elevations: 2632.00 ft (KB)  
 Total Depth: 4156.00 ft (KB) (TVD)  
 2621.00 ft (CF)  
 Hole Diameter: 7.88 inches  
 Hole Condition: Fair  
 KB to GR/CF: 11.00 ft

**Serial #: 6753**      **Inside**  
 Press@RunDepth: 155.11 psig @ 4107.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2012.06.13      End Date: 2012.06.14      Last Calib.: 2012.06.14  
 Start Time: 21:30:35      End Time: 07:13:30      Time On Btm: 2012.06.14 @ 01:43:00  
 Time Off Btm: 2012.06.14 @ 05:03:00

**TEST COMMENT:** F-4.5" blow  
 IS-No blow  
 FF-8" blow  
 FSI-No blow



### PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	2019.68	111.17	Initial Hydro-static
2	23.54	110.84	Open To Flow (1)
16	78.06	110.72	Shut-In(1)
60	1213.97	114.23	End Shut-In(1)
61	85.82	113.76	Open To Flow (2)
106	155.11	116.44	Shut-In(2)
197	1192.18	119.45	End Shut-In(2)
200	1953.33	118.16	Final Hydro-static

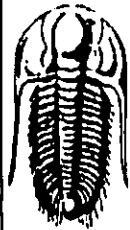
### Recovery

Length (ft)	Description	Volume (bbl)
15.00	mud	0.07
280.00	Water	2.15

### Gas Rates

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





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

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

**10-16s-26w Ness, KS**  
**Peters D #3-10**  
Job Ticket: 49251      **DST#: 1**  
Test Start: 2012.06.13 @ 21:30:30

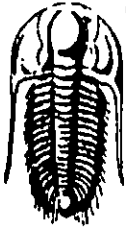
### Tool Information

Drill Pipe:	Length: 3892.00 ft	Diameter: 3.80 inches	Volume: 54.59 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 210.00 ft	Diameter: 2.25 inches	Volume: 1.03 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial 80000.00 lb
Depth to Top Packer:	4106.00 ft			Final 80000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	50.00 ft			
Tool Length:	73.00 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			4084.00	
Shut In Tool	5.00			4089.00	
Hydraulic tool	5.00			4094.00	
Safety Joint	2.00			4096.00	
Packer	5.00			4101.00	23.00      Bottom Of Top Packer
Packer	5.00			4106.00	
Stubb	1.00			4107.00	
Recorder	0.00	6753	Inside	4107.00	
Recorder	0.00	8369	Outside	4107.00	
Perforations	2.00			4109.00	
Change Over Sub	1.00			4110.00	
Drill Pipe	32.00			4142.00	
Change Over Sub	1.00			4143.00	
Perforations	10.00			4153.00	
Bullnose	3.00			4156.00	50.00      Bottom Packers & Anchor

**Total Tool Length: 73.00**



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

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

**10-16s-26w Ness,KS**  
**Peters D #3-10**  
 Job Ticket: 49251      **DST#: 1**  
 Test Start: 2012.06.13 @ 21:30:30

**Mud and Cushion Information**

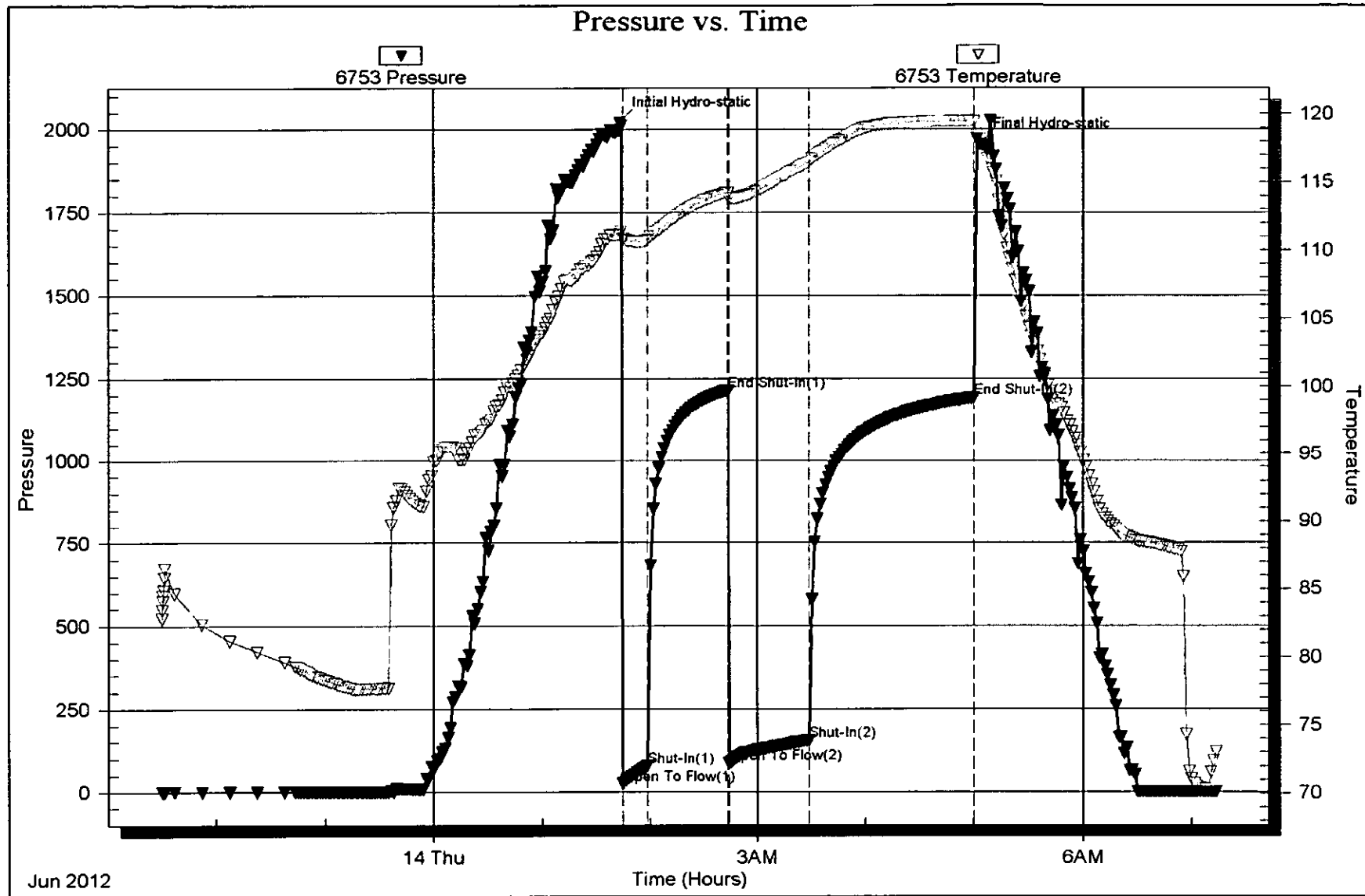
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Saffinity:	95000 ppm
Viscosity: 49.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.19 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2400.00 ppm			
Filter Cake: inches			

**Recovery Information**

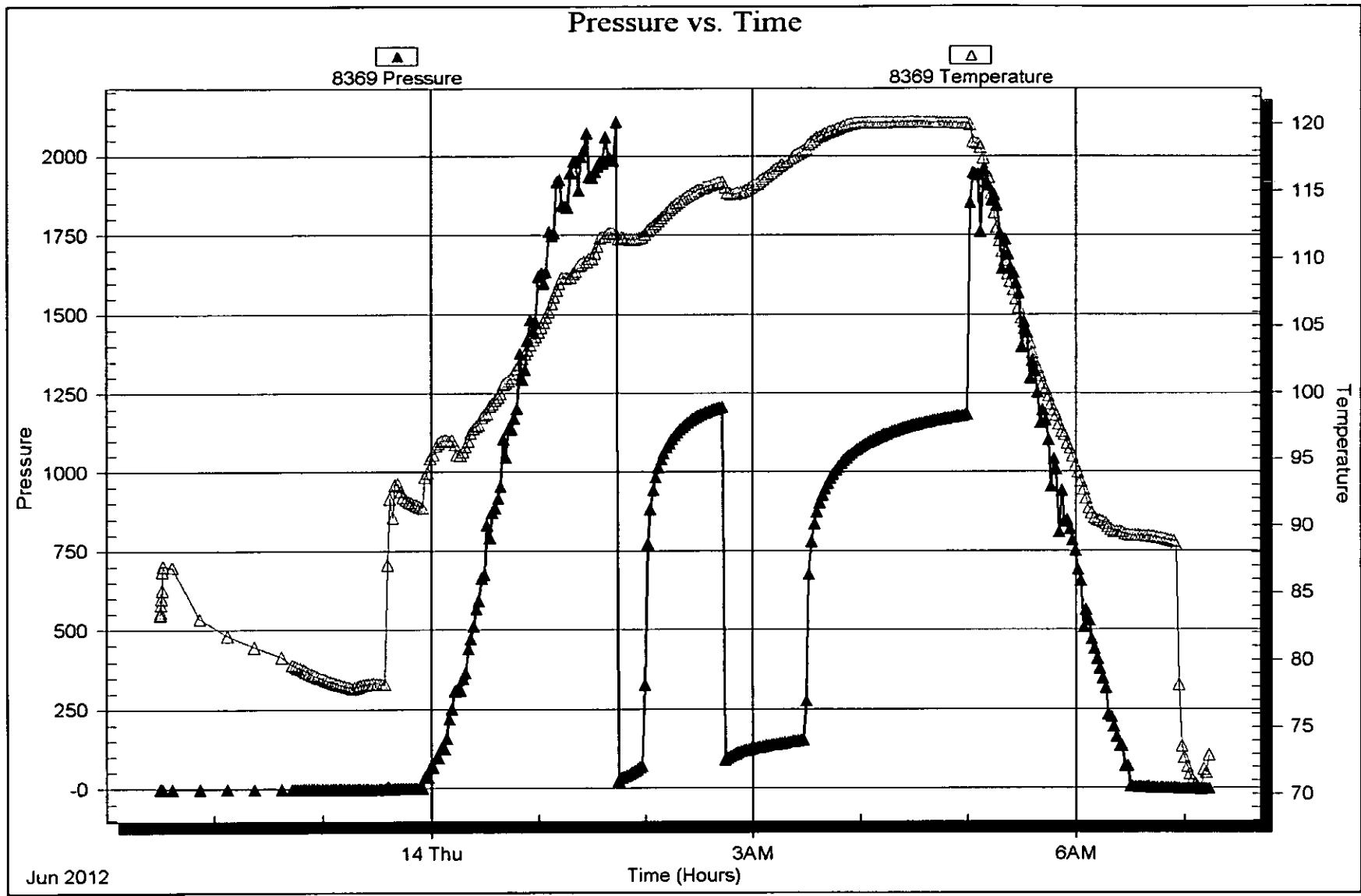
Recovery Table

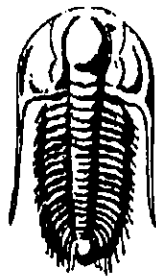
Length ft	Description	Volume bbl
15.00	mud	0.074
280.00	Water	2.151

Total Length: 295.00 ft      Total Volume: 2.225 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments: RW.09@ 65









**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

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

PO Box 838  
Lawrenceville IL 62439

ATTN: Jon Christensen

**Peters D #3-10**

**10-16s-26w Ness,KS**

Start Date: 2012.06.15 @ 19:35:02

End Date: 2012.06.16 @ 03:36:02

Job Ticket #: 49252                      DST #: 2

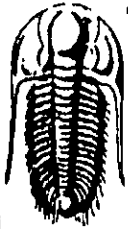
Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.06.20 @ 11:04:56

Herman L. Loeb, LLC    10-16s-26w Ness,KS    Peters D #3-10    DST # 2    Fort Scott/Cherokee    2012.06.15



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

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

**10-16s-26w Ness, KS**  
**Peters D #3-10**  
Job Ticket: 49252      **DST#: 2**  
Test Start: 2012.06.15 @ 19:35:02

### GENERAL INFORMATION:

Formation: **Fort Scott/Cherokee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:02:32

Time Test Ended: 03:36:02

Interval: **4436.00 ft (KB) To 4484.00 ft (KB) (TVD)**

Total Depth: 4484.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Reset)

Tester: Brett Dickinson

Unit No: 59

Reference Elevations: 2632.00 ft (KB)

2621.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: **6753**

Inside

Press@RunDepth: 20.23 psig @ 4437.00 ft (KB)

Start Date: 2012.06.15

End Date:

2012.06.16

Start Time: 19:35:07

End Time:

03:36:01

Capacity: 8000.00 psig

Last Calib.: 2012.06.16

Time On Btm: 2012.06.15 @ 23:00:32

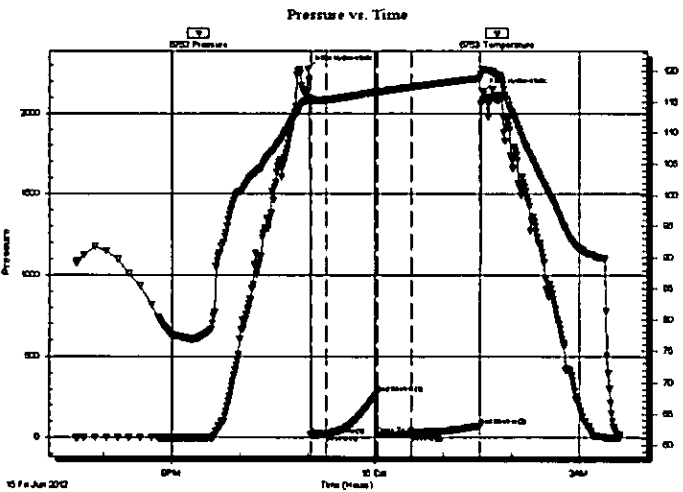
Time Off Btm: 2012.06.16 @ 01:35:02

TEST COMMENT: IF-Very weak surface blow died in 11min

IS-No blow

FF-No blow

FSL-No blow



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2275.76	115.47	Initial Hydro-static
2	17.25	115.29	Open To Flow (1)
16	18.20	115.36	Shut-In(1)
61	272.07	116.72	End Shut-In(1)
62	17.93	116.66	Open To Flow (2)
92	20.23	117.45	Shut-In(2)
152	75.04	118.88	End Shut-In(2)
155	2133.13	120.33	Final Hydro-static

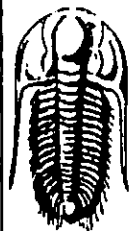
### Recovery

Length (ft)	Description	Volume (bbl)
30.00	mud	0.15

\* Recovery from multiple tests

### Gas Rates

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



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

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

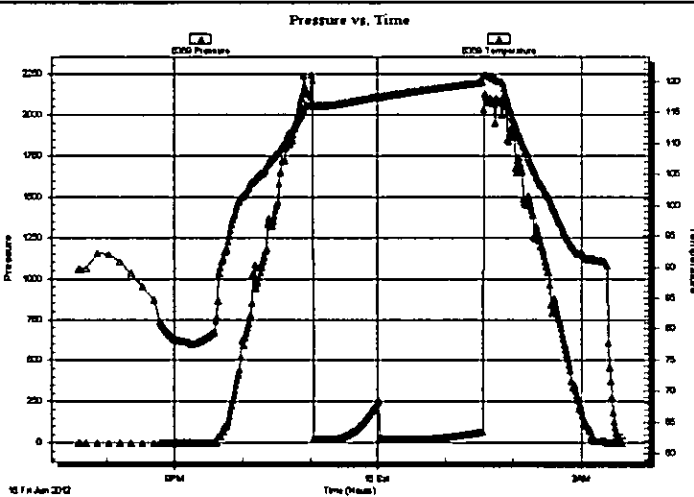
**10-16s-26w Ness, KS**  
**Peters D #3-10**  
Job Ticket: 49252      **DST#: 2**  
Test Start: 2012.06.15 @ 19:35:02

### GENERAL INFORMATION:

Formation: <b>Fort Scott/Cherokee</b>	Test Type: Conventional Bottom Hole (Reset)
Deviated: No Whipstock      ft (KB)	Tester: Brett Dickinson
Time Tool Opened: 23:02:32	Unit No: 59
Time Test Ended: 03:36:02	Reference Elevations: 2632.00 ft (KB)
Interval: <b>4436.00 ft (KB) To 4484.00 ft (KB) (TVD)</b>	2621.00 ft (CF)
Total Depth: 4484.00 ft (KB) (TVD)	KB to GR/CF: 11.00 ft
Hole Diameter: 7.88 inchesHole Condition: Fair	

<b>Serial #: 8369</b>	<b>Outside</b>			
Press@RunDepth:      psig @ 4437.00 ft (KB)	Capacity: 8000.00 psig			
Start Date: 2012.06.15      End Date: 2012.06.16	Last Calib.: 2012.06.16			
Start Time: 19:34:37      End Time: 03:36:01	Time On Btm:			
	Time Off Btm:			

**TEST COMMENT:** IF-Very weak surface blow died in 11min  
 IS- No blow  
 FF- No blow  
 FS- No blow



### PRESSURE SUMMARY

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

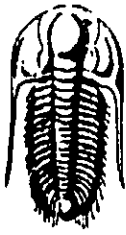
### Recovery

Length (ft)	Description	Volume (bbl)
30.00	mud	0.15

\* Recovery from multiple tests

### Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

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

**10-16s-26w Ness,KS**  
**Peters D #3-10**  
 Job Ticket: 49252      **DST#: 2**  
 Test Start: 2012.06.15 @ 19:35:02

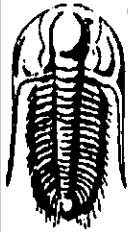
**Tool Information**

Drill Pipe:	Length: 4210.00 ft	Diameter: 3.80 inches	Volume: 59.06 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 210.00 ft	Diameter: 2.25 inches	Volume: 1.03 bbl	Weight to Pull Loose:	85000.00 lb
		Total Volume: - bbl		Tool Chased	0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial	82000.00 lb
Depth to Top Packer:	4436.00 ft			Final	82000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	48.00 ft				
Tool Length:	71.00 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			4414.00	
Shut In Tool	5.00			4419.00	
Hydraulic tool	5.00			4424.00	
Safety Joint	2.00			4426.00	
Packer	5.00			4431.00	23.00      Bottom Of Top Packer
Packer	5.00			4436.00	
Stubb	1.00			4437.00	
Recorder	0.00	6753	Inside	4437.00	
Recorder	0.00	8369	Outside	4437.00	
Perforations	2.00			4439.00	
Change Over Sub	1.00			4440.00	
Drill Pipe	32.00			4472.00	
Change Over Sub	1.00			4473.00	
Perforations	8.00			4481.00	
Bullnose	3.00			4484.00	48.00      Bottom Packers & Anchor

**Total Tool Length: 71.00**



**TRILOBITE**  
**TESTING, INC.**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

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

**10-16s-26w Ness,KS**  
**Peters D #3-10**  
Job Ticket: 49252      **DST#: 2**  
Test Start: 2012.06.15 @ 19:35:02

**Mud and Cushion Information**

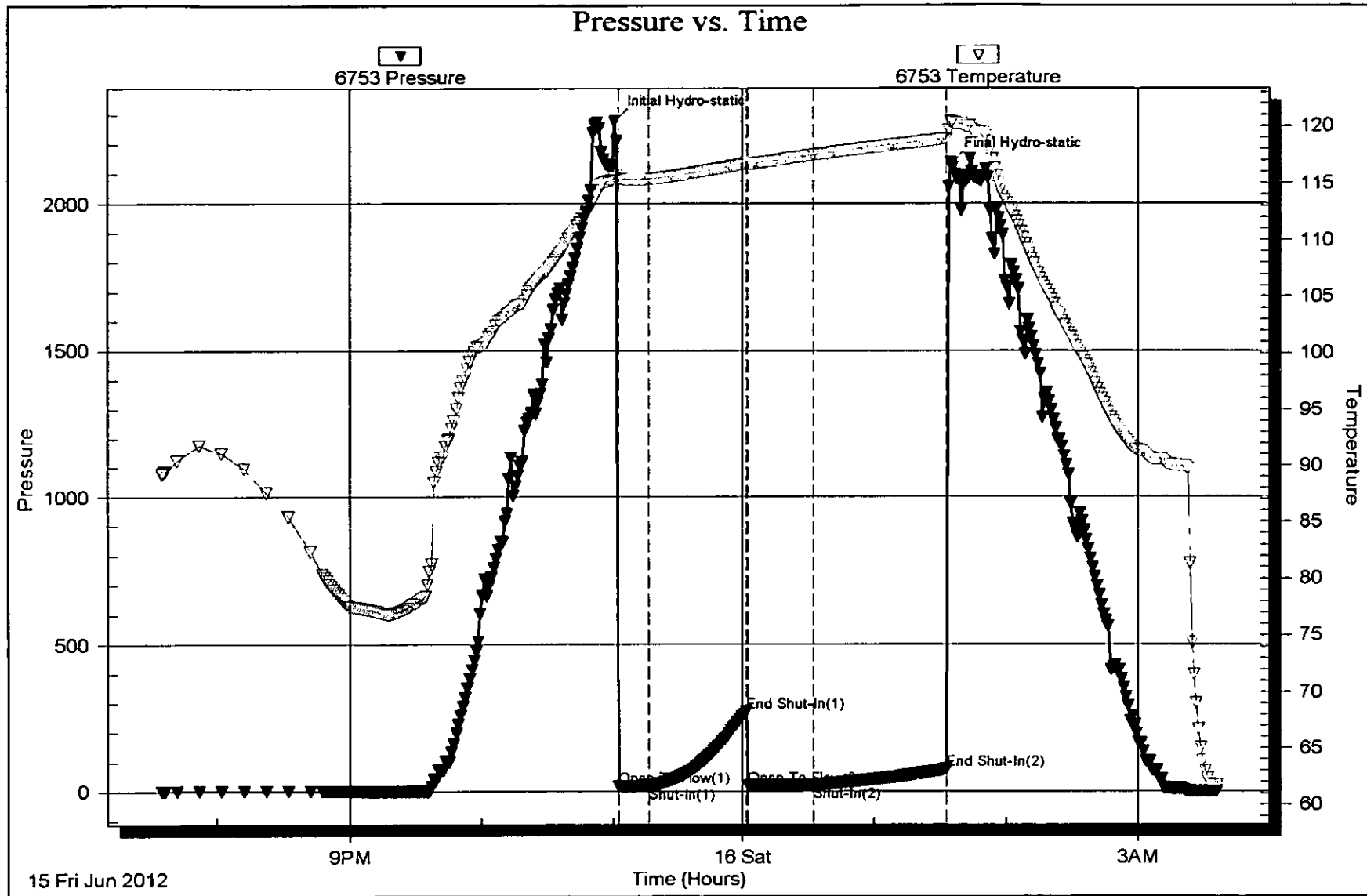
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 61.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.59 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1800.00 ppm			
Filter Cake: inches			

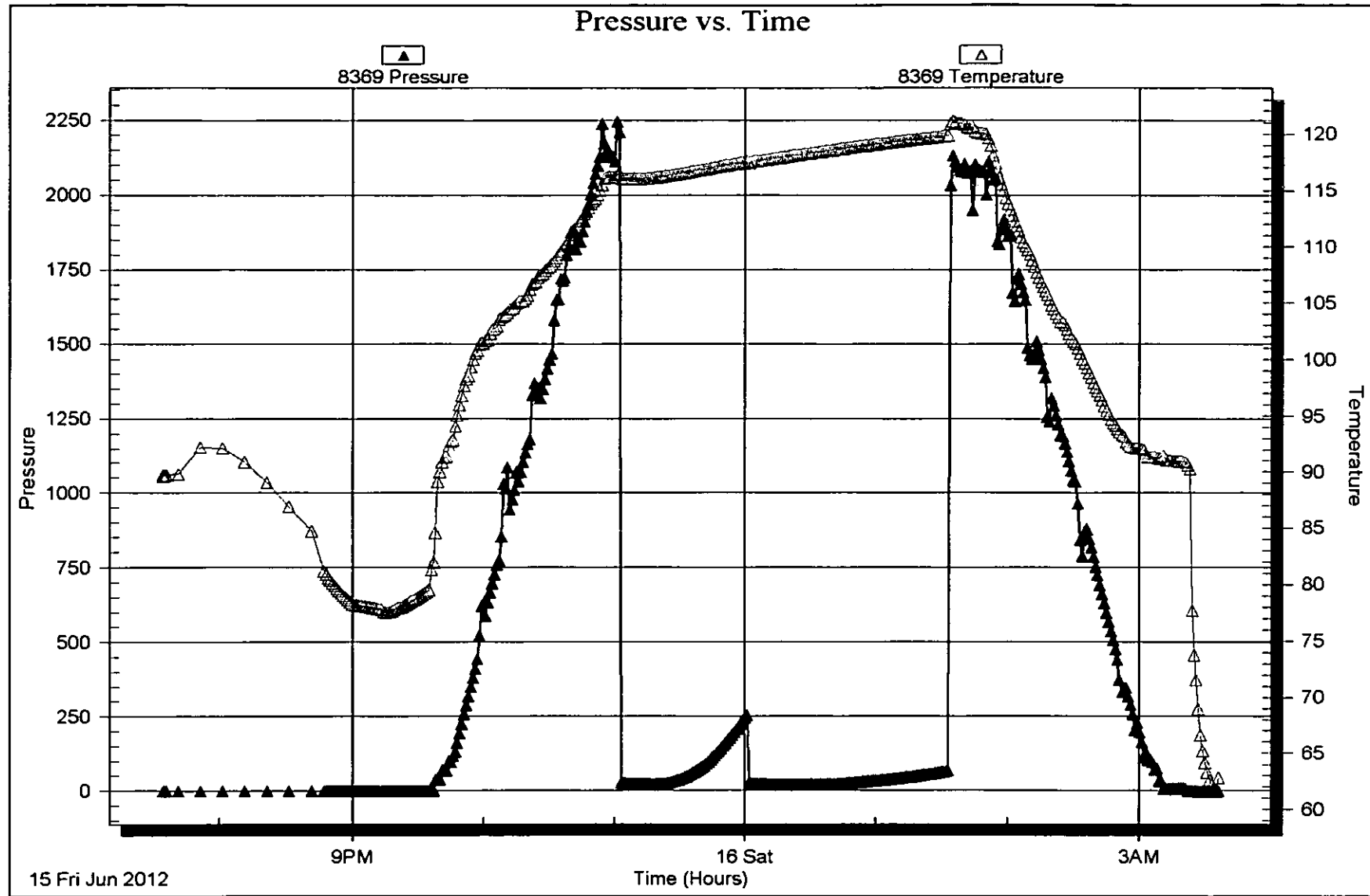
**Recovery Information**

Recovery Table

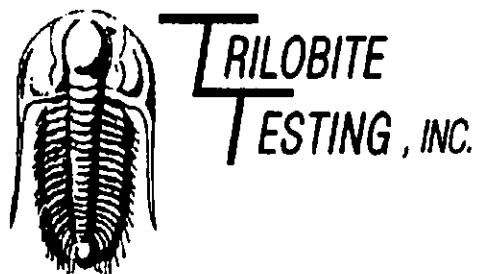
Length ft	Description	Volume bbl
30.00	mud	0.148

Total Length: 30.00 ft      Total Volume: 0.148 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments:









## DRILL STEM TEST REPORT

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

PO Box 838  
Lawrenceville IL 62439

ATTN: Jon Christensen

**Peters D #3-10**

**10-16s-26w Ness,KS**

Start Date: 2012.06.16 @ 15:35:15

End Date: 2012.06.17 @ 00:13:45

Job Ticket #: 49253                      DST #: 3

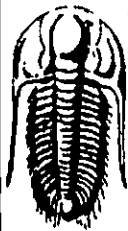
Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.06.20 @ 11:04:11

Herman L. Loeb, LLC    10-16s-26w Ness,KS    Peters D #3-10    DST # 3    Miss.    2012.06.16



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

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

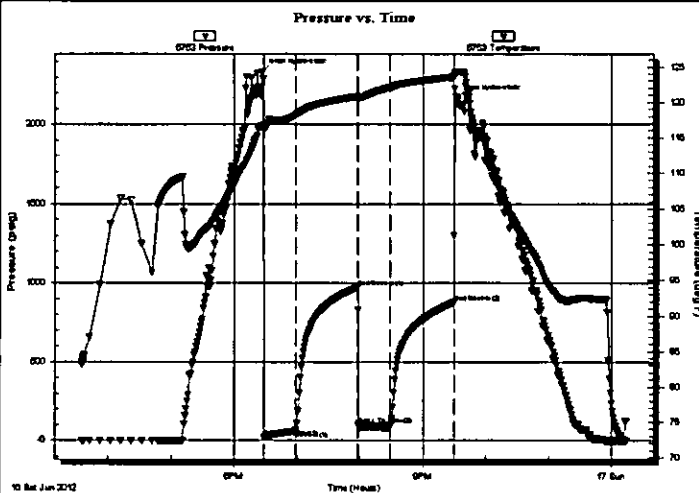
**10-16s-26w Ness,KS**  
**Peters D #3-10**  
Job Ticket: 49253      **DST#: 3**  
Test Start: 2012.06.16 @ 15:35:15

### GENERAL INFORMATION:

Formation: **Miss.**  
Deviated: **No** Whipstock:                      ft (KB)  
Time Tool Opened: 18:28:45  
Time Test Ended: 00:13:45  
Interval: **4544.00 ft (KB) To 4565.00 ft (KB) (TVD)**  
Total Depth: **4565.00 ft (KB) (TVD)**  
Hole Diameter: **7.88 inches** Hole Condition: **Fair**  
Test Type: **Conventional Bottom Hole (Reset)**  
Tester: **Brett Dickinson**  
Unit No: **59**  
Reference Elevations: **2632.00 ft (KB)**  
**2621.00 ft (CF)**  
**KB to GR/CF: 11.00 ft**

**Serial #: 6753**      **Inside**  
Press@RunDepth: **99.77 psig @ 4545.00 ft (KB)**      Capacity: **8000.00 psig**  
Start Date: **2012.06.16**      End Date: **2012.06.17**      Last Calib.: **2012.06.17**  
Start Time: **15:35:20**      End Time: **00:13:45**      Time On Btm: **2012.06.16 @ 18:26:45**  
Time Off Btm: **2012.06.16 @ 21:32:15**

**TEST COMMENT:** IF-4" blow  
IS-No blow  
FF-No blow for 15 min 1/8" blow  
FSI-No blow



### PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	2337.05	116.54	Initial Hydro-static
2	20.39	116.11	Open To Flow (1)
32	60.13	118.10	Shut-In(1)
91	972.96	120.80	End Shut-In(1)
92	100.61	120.61	Open To Flow (2)
122	99.77	122.02	Shut-In(2)
183	877.29	123.54	End Shut-In(2)
186	2164.55	124.24	Final Hydro-static

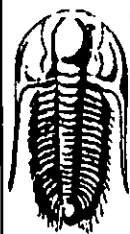
### Recovery

Length (ft)	Description	Volume (bbl)
75.00	GSMWCO 25%G 55%O 10%W 10%M	0.37
60.00	SOCM 10%O 90%M	0.30
15.00	VSGO 5%G 95%O	0.07

\* Recovery from multiple tests

### Gas Rates

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



**TRILLOBITE  
TESTING, INC**

### DRILL STEM TEST REPORT

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

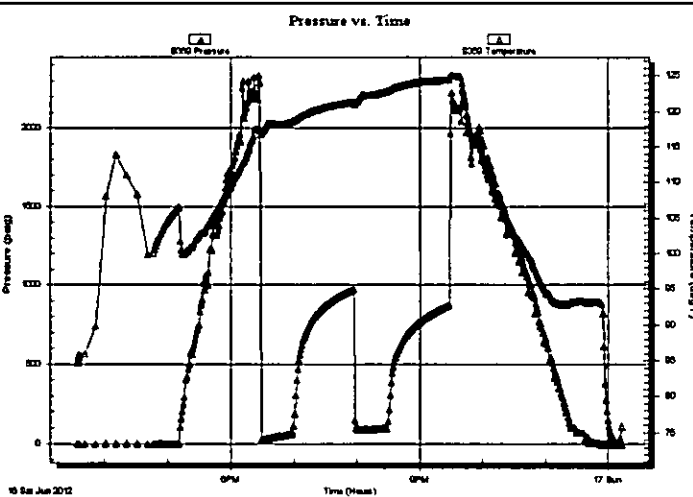
**10-16s-26w Ness,KS**  
**Peters D #3-10**  
Job Ticket: 49253      **DST#: 3**  
Test Start: 2012.06.16 @ 15:35:15

**GENERAL INFORMATION:**

Formation: **Miss.**  
Deviated: **No** Whipstock: **ft (KB)**  
Time Tool Opened: 18:28:45  
Time Test Ended: 00:13:45  
Interval: **4544.00 ft (KB) To 4565.00 ft (KB) (TVD)**  
Total Depth: **4565.00 ft (KB) (TVD)**  
Hole Diameter: **7.88 inches** Hole Condition: **Fair**  
Test Type: **Conventional Bottom Hole (Reset)**  
Tester: **Brett Dickinson**  
Unit No: **59**  
Reference Elevations: **2632.00 ft (KB)**  
**2621.00 ft (CF)**  
KB to GR/CF: **11.00 ft**

**Serial #: 8369**      **Outside**  
Press@RunDepth: **psig @ 4545.00 ft (KB)**      Capacity: **8000.00 psig**  
Start Date: **2012.06.16**      End Date: **2012.06.17**      Last Calib.: **2012.06.17**  
Start Time: **15:34:20**      End Time: **00:13:15**      Time On Btm:   
Time Off Btm:

**TEST COMMENT:** IF-4" blow  
IS-No blow  
FF-No blow for 15 min 1/8" blow  
FS-No blow



**PRESSURE SUMMARY**

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

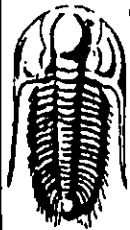
**Recovery**

Length (ft)	Description	Volume (bbl)
75.00	GSMWCO 25%G 55%O 10%W 10%M	0.37
60.00	SOCM 10%O 90%M	0.30
15.00	VSGO 5%G 95%O	0.07

\* Recovery from multiple tests

**Gas Rates**

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

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

**10-16s-26w Ness,KS**  
**Peters D #3-10**  
 Job Ticket: 49253      **DST#: 3**  
 Test Start: 2012.06.16 @ 15:35:15

### Tool Information

Drill Pipe:	Length: 4337.00 ft	Diameter: 3.80 inches	Volume: 60.84 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 210.00 ft	Diameter: 2.25 inches	Volume: 1.03 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 85000.00 lb
Depth to Top Packer:	4544.00 ft			Final 85000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	21.00 ft			
Tool Length:	44.00 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			4522.00	
Shut In Tool	5.00			4527.00	
Hydraulic tool	5.00			4532.00	
Safety Joint	2.00			4534.00	
Packer	5.00			4539.00	23.00      Bottom Of Top Packer
Packer	5.00			4544.00	
Stubb	1.00			4545.00	
Recorder	0.00	6753	Inside	4545.00	
Recorder	0.00	8369	Outside	4545.00	
Perforations	2.00			4547.00	
Perforations	15.00			4562.00	
Bullnose	3.00			4565.00	21.00      Bottom Packers & Anchor

**Total Tool Length: 44.00**



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

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

**10-16s-26w Ness,KS**  
**Peters D #3-10**  
 Job Ticket: 49253      **DST#: 3**  
 Test Start: 2012.06.16 @ 15:35:15

**Mud and Cushion Information**

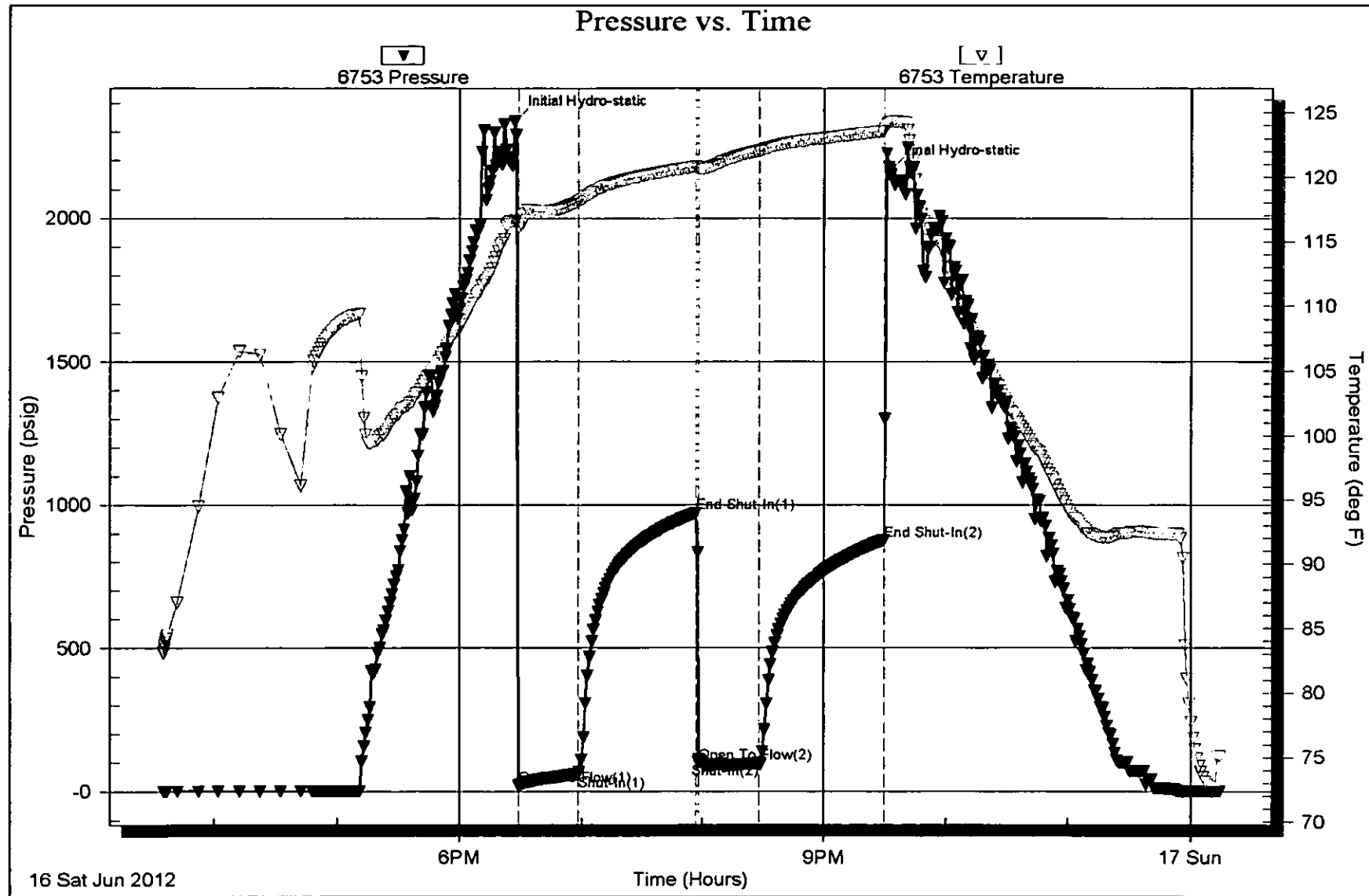
Mud Type: Gel Chem	Cushion Type:	Oil API:	37 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 65.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.59 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2100.00 ppm			
Filter Cake: inches			

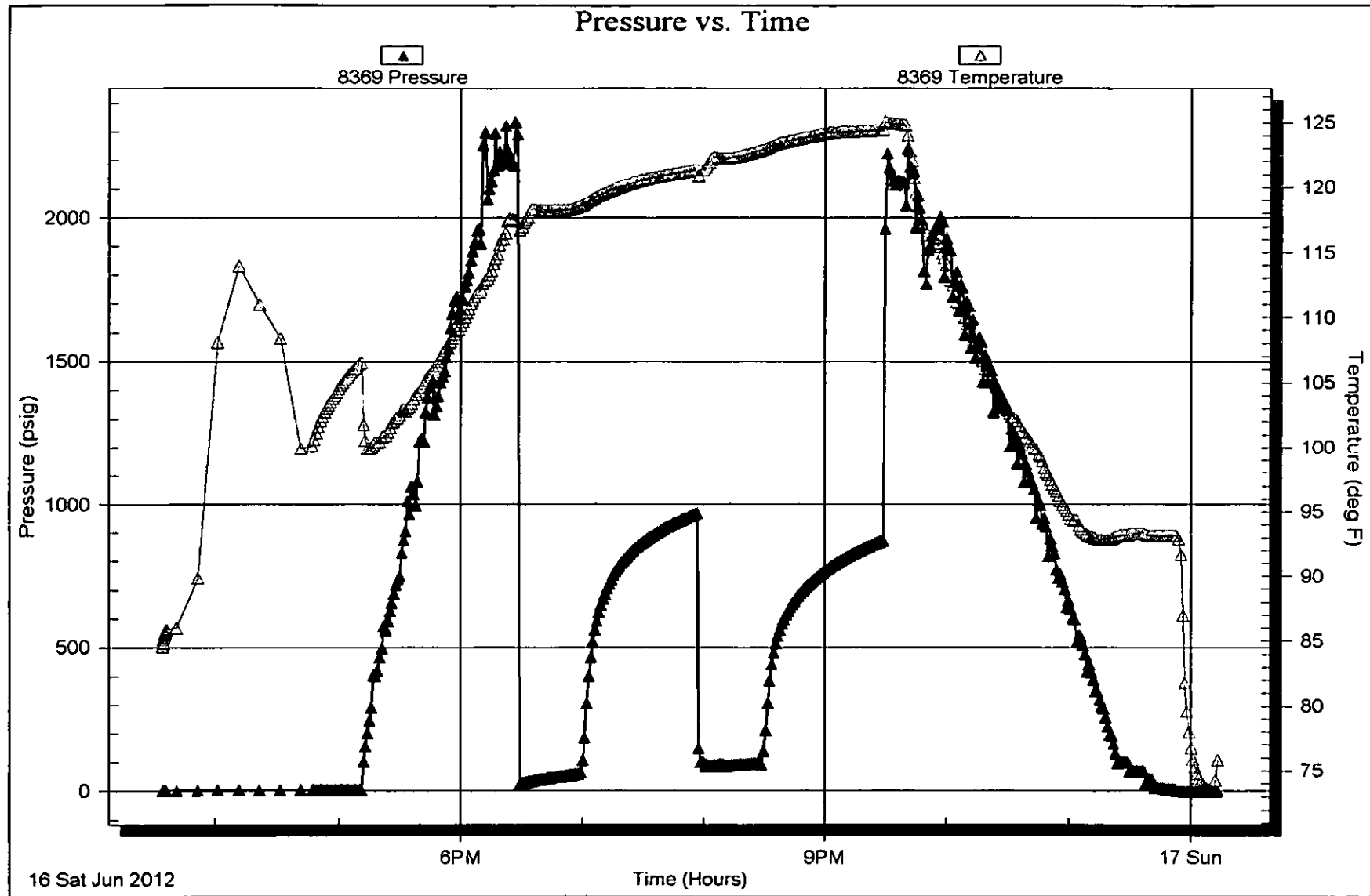
**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
75.00	GSMWCO 25%G 55%O 10%W 10%M	0.369
60.00	SOCM 10%O 90%M	0.295
15.00	VSGO 5%G 95%O	0.074

Total Length: 150.00 ft      Total Volume: 0.738 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:







**BASIC**  
ENERGY SERVICES  
PRESSURE PUMPING & WIRELINE

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

FIELD SERVICE TICKET  
1718 05927 A

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

DATE OF JOB <u>6-18-12</u> DISTRICT <u>KANSAS</u>		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 <u>Heriman L.L.C. LLC</u>		LEASE <u>Pct. 0 #3-10</u> WELL NO.:								
ADDRESS		COUNTY <u>Neos 10-16-26</u> STATE <u>Ks</u>								
CITY STATE		SERVICE CREW <u>Allen, Joe Dale</u>								
AUTHORIZED BY		JOB TYPE: <u>5/8 Loss of Pot. collar</u> <u>CONV</u>								
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	<u>6-17-12</u>	AM	PM	TIME
<u>28443 P.U</u>	<u>1 1/2</u>					ARRIVED AT JOB	<u>6-17-12</u>	AM	PM	<u>11:00</u>
<u>33738-709.0</u>	<u>1 1/2</u>					START OPERATION	<u>6-18-12</u>	AM	PM	<u>6:00</u>
<u>19826-1998</u>	<u>1 1/2</u>					FINISH OPERATION	<u>6-18-12</u>	AM	PM	<u>8:30</u>
						RELEASED	<u>6-18-12</u>	AM	PM	
						MILES FROM STATION TO WELL	<u>100-10.1 miles</u>			

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
CP104	50/50 P02	SK	150		
CP103	60/40 P02	SK	50		
CC102	CC11 FIAK	16	30		
CC113	Gypsum	16	840		
CC129	PIA 322	16	89		
CC201	Gilsonite	16	1200		
CC200	KEL Potassium Chloride	16	453		
CF461	5/8 P.C. Blue	EA	1		
CF627	Catch down Plug + Baffle	EA	1		
CF1251	Auto Fill Float Valve 5/2	EA	1		
CF1651	Turbolizer 5/8" Blue	EA	10		
CF1901	Basket Blue	EA	2		
CF2001	Connect scratch cable type 1/2	EA	5		
CC151	M10 Flush	gal	1000		

CHEMICAL / ACID DATA			

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

SERVICE REPRESENTATIVE Allen, Joe Dale

THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: \_\_\_\_\_

FIELD SERVICE ORDER NO. \_\_\_\_\_

(WELL OWNER OPERATOR CONTRACTOR OR AGENT)



# BASIC

energy services, L.P.

## TREATMENT REPORT

Customer <i>Acme Oil Co</i>	Lease No. <i>Peters O'</i>	Date <i>6-18-12</i>
Lease <i>Peters O'</i>	Well # <i>7-10</i>	
Field Order # <i>5-1927A</i>	Station <i>Plant</i>	Casing <i>5 1/2</i>
Type Job <i>5 1/2" 150' w/ Part Collar</i>	Formation <i>CNW</i>	Depth <i>4623</i>
		County <i>Wes</i>
		State <i>KS-16-12</i>
		Legal Description <i>10-11-26</i>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
<i>5 1/2</i>			<i>24-60</i>	<i>150' 1500 Fluash</i>				
Depth <i>4623</i>	Depth	From	To	Pre Pad	Max		5 Min.	
Volume <i>110</i>	Volume	From	To	Pad	Min		10 Min.	
Max Press <i>1500</i>	Max Press	From	To	Frac	Avg		15 Min.	
Well Connection <i>P.L.</i>	Annulus Vol.	From	To	Flush	HHP Used		Annulus Pressure	
Plug Depth <i>4613</i>	Packer Depth	From	To		Gas Volume		Total Load	

Customer Representative <i>W. J. ...</i>	Station Manager <i>Seating</i>	Treater <i>Allen</i>
Service Units <i>12443 3304</i>	<i>19826 19918</i>	
Driver Names <i>Allen</i>	<i>Joe</i>	

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>1100 AM</i>	<i>6-18-12</i>				<i>on loc. D. ... Setup ...</i>
<i>240 AM</i>	<i>6-18-12</i>				<i>Rig ... Start 5 1/2 ...</i>
					<i>Shut ... 10.17' ...</i>
					<i>+ L.O. ...</i>
					<i>cont - 2-3-4-9-14-19-23 ...</i>
					<i>Basket + 14-94 ...</i>
					<i>6 2080 - Run 35 JTs ...</i>
					<i>for 15 min Run 70-JTs ...</i>
					<i>circ for 30 min.</i>
<i>600</i>					<i>This Bottom ...</i>
					<i>4623 hook up ...</i>
<i>700</i>	<i>200'</i>		<i>24</i>		<i>Pump 24 bbls ...</i>
			<i>5</i>		<i>Pump 5 bbls ...</i>
			<i>36</i>		<i>110' ...</i>
<i>710</i>				<i>6</i>	<i>Drop Lid. Plug ...</i>
	<i>500'</i>			<i>6</i>	<i>Chase ...</i>
<i>730</i>	<i>1000'</i>		<i>110</i>	<i>4</i>	<i>Plug ...</i>
	<i>0'</i>				<i>R ...</i>
					<i>Plug ...</i>
<i>830</i>					<i>Wash ...</i>



PAGE 1 of 1	CUST NO 1007589	INVOICE DATE 06/08/2012
INVOICE NUMBER 1718 - 90924745		

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 Peters D 3-10  
 O LOCATION  
 B COUNTY Ness  
 S STATE KS  
 I JOB DESCRIPTION Cement-New Well Casing/Pi  
 T  
 E JOB CONTACT

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
40472783	19843		Net - 30 days	07/08/2012

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
<i>For Service Dates: 06/07/2012 to 06/07/2012</i>				
0040472783				
171806503A Cement-New Well Casing/Pi 06/07/2012				
Cement 8 5/8" Surface				
60/40 POZ	215.00	EA	9.60	2,064.00 T
Celloflake	54.00	EA	2.96	159.84 T
Calcium Chloride	555.00	EA	0.84	468.20 T
"Wooden Cmt Plug, 8 5/8""	1.00	EA	128.00	128.00
"Unit Mileage Chg (PU, cars one way)"	100.00	MI	3.40	340.00
Heavy Equipment Mileage	200.00	MI	5.60	1,120.00
"Proppant & Bulk Del. Chgs., per ton mil	925.00	EA	1.28	1,184.00
Depth Charge; 0-500'	1.00	EA	800.00	800.00
Blending & Mixing Service Charge	215.00	BAG	1.12	240.80
Plug Container Util. Chg.	1.00	EA	200.00	200.00
*Service Supervisor, first 8 hrs on loc.	1.00	EA	140.00	140.00

*761 Peters D  
6420*

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	6,842.84
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	169.47
PO BOX 841903	PO BOX 10460	INVOICE TOTAL	7,012.31
DALLAS, TX 75284-1903	MIDLAND, TX 79702		



**BASIC**  
ENERGY SERVICES  
PRESSURE PUMPING & WIRELINE

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

1744775  
FIELD SERVICE TICKET  
1718 06503 A

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

DATE OF JOB 06-07-12 DISTRICT PRATT KS		NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/> CUSTOMER ORDER NO.:							
CUSTOMER HERMAN LOEB		LEASE POTTS D 310 WELL NO.							
ADDRESS		COUNTY NESS STATE KS							
CITY STATE		SERVICE CREW Sullivan, Edward, Phye							
AUTHORIZED BY		JOB TYPE: CW 8 3/4 Surface							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM/PM	TIME
19884-19843	25	413					6-7-12		1:00
19859-7860	25								5:00
37900									9:35
									10:00
									10:30
									MILES FROM STATION TO WELL 100

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
CP 103	Copier cat	SK	215		2,580.00
CC 102	Collate	16	54		199.80
PC 109	Calcium chloride	16	555		542.75
CP 153	Rm 8 3/4	SA	1		160.00
E 100	Ridge one	mi	100		425.00
E 101	Heavy Spant cu	mi	200		1,400.00
E 113	Ruck Delay	mi	925		1,480.00
CE 200	Depth change 0-200'	SA	1		1,000.00
CE 240	Blending - mix	SK	215		301.00
CE 304	Blur cut - 1/2" dia	SA	1		250.00
5003	Schwin Service	SA	1		175.00

CHEMICAL / ACID DATA:			

SUB TOTAL	DL5 6,842.84
SERVICE & EQUIPMENT	%TAX ON \$
MATERIALS	%TAX ON \$
TOTAL	

SERVICE REPRESENTATIVE Robert [Signature]	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY [Signature]
FIELD SERVICE ORDER NO.	(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

# BASIC

energy services, L.P.

## TREATMENT REPORT

Customer <i>McMinn Loeb</i>	Lease No.	Date <i>06-07-12</i>
Lease <i>Peter's D</i>	Well # <i>3-10</i>	
Field Order # <i>4503</i>	Station <i>PRATT KS</i>	Casing <i>8 5/8</i>
Type Job <i>CNW 8 5/8 Surface</i>	Formation	Depth <i>350</i>
		County <i>NESS</i>
		State <i>KS</i>
		Legal Description <i>10-16-24</i>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
<i>8 5/8</i>								
Depth	Depth	From	To	Pre Pad	Max		5 Min.	
<i>350</i>								
Volume	Volume	From	To	Pad	Min		10 Min.	
<i>20</i>								
Max Press	Max Press	From	To	Frac	Avg		15 Min.	
<i>3000</i>								
Well Connection	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
<i>P.C</i>								
Plug Depth	Packer Depth	From	To	Flush	Gas Volume		Total Load	
<i>320</i>								

Customer Representative	Station Manager <i>DAVE SCOTT</i>	Treater <i>Kolbert Jellison</i>
-------------------------	-----------------------------------	---------------------------------

Service Units	<i>37900</i>	<i>198801</i>	<i>19843</i>	<i>19959</i>	<i>19860</i>				
Driver Names	<i>Sullivan</i>	<i>Edman</i>	<i>Phye</i>						

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>0500 Am</i>					<i>on loc safety meeting</i>
					<i>Run 85 lbs 8 5/8 23 csg</i>
<i>9:20</i>					<i>circulate on bottom</i>
<i>9:30</i>					<i>Work Cap to circ of rig</i>
<i>9:35</i>	<i>150</i>		<i>3</i>	<i>3</i>	<i>at surface</i>
<i>10:00</i>	<i>170</i>		<i>46</i>	<i>4.5</i>	<i>mix cont 2.5 sk 60/40/40 @ 14.5.1000</i>
					<i>cont mix 1.5</i>
				<i>4</i>	<i>at pump</i>
			<i>20</i>		<i>plug (down)</i>
					<i>circ 10 min to pit</i>
					<i>JOB complete</i>
					<i>Thank you</i>