

Confidentiality Requested:

Yes  No

**KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION**

Form ACO-1

January 2018

**Form must be Typed**

**Form must be Signed**

**All blanks must be Filled**

**WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE**

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

New Well  Re-Entry  Workover

Oil  WSW  SWD

Gas  DH  EOR

OG  GSW

CM (Coal Bed Methane)

Cathodic  Other (Core, Expl., etc.): \_\_\_\_\_

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

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

Deepening  Re-perf.  Conv. to EOR  Conv. to SWD  
 Plug Back  Liner  Conv. to GSW  Conv. to Producer

Commingled Permit #: \_\_\_\_\_

Dual Completion Permit #: \_\_\_\_\_

SWD Permit #: \_\_\_\_\_

EOR Permit #: \_\_\_\_\_

GSW Permit #: \_\_\_\_\_

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE  NW  SE  SW

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

Datum:  NAD27  NAD83  WGS84

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Vertical Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

**Drilling Fluid Management Plan**

*(Data must be collected from the Reserve Pit)*

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite:

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

**AFFIDAVIT**

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

Submitted Electronically

**KCC Office Use ONLY**

Confidentiality Requested

Date: \_\_\_\_\_

Confidential Release Date: \_\_\_\_\_

Wireline Log Received  Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

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

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to [kcc-well-logs@kcc.ks.gov](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 Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No  List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

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

1. Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No *(If No, fill out Page Three of the ACO-1)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	HERMAN L. LOEB, LLC
Well Name	LIL SPICY 1-16
Doc ID	1418998

All Electric Logs Run

Dual Induction
NEU/DEN w/PE
Microlog
Sonic

Form	ACO1 - Well Completion
Operator	HERMAN L. LOEB, LLC
Well Name	LIL SPICY 1-16
Doc ID	1418998

Tops

Name	Top	Datum
Anhydrite	1179	+1018
Chase	2434	-237
Heebner Shale	4026	-1829
Lansing 'A'	4186	-1989
Lansing/KC 'H'	4345	-2148
Kansas City 'I'	4391	-2194
Kansas City 'J'	4434	-2237
BKC	4564	-2367
Reworked Miss	4749	-2552
Miss Chert	4763	-2566
Kinderhook Shale	4804	-2607



# LITHOLOGY STRIP LOG

## WellSight Systems

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

Well Name: Lil Spicy #1-16  
Location: 1896' FNL & 2225' FWL, Sec. 16-T27S-R18W, Kiowa Co., KS.  
Licence Number: 15-097-21840-00-00 Region: Wildcat  
Spud Date: 6/9/2018 Drilling Completed: 6/17/2018  
Surface Coordinates: 1896' FNL & 2225' FWL, Sec. 16-T27S-R18W

Bottom Hole Same as Above  
Coordinates:  
Ground Elevation (ft): 2186' K.B. Elevation (ft): 2197'  
Logged Interval (ft): 3200' To: 4820' Total Depth (ft): 4820'  
Formation: Kinderhook at Total Depth  
Type of Drilling Fluid: Freshwater/Gel to 3432'; Chemical Gel 3432' to TD.

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: 277 S. Maple Dunes Ct.  
Wichita, KS. 67235-7500

### Cores

None Taken

### DSTs

DST #1(Lansing 'A' zone) 4189' - 4205'(Corrected Depths to Log) Test Times 30"-45"-30"-60" IFP Weak Blow built to 0.5", FFP Weak Surface blow, no Blowback on SI's; REC: 30' OCMSW(3%O, 43%M, 54%W) CI 23,000, Mud 7000; IFP 10-18#, ISIP 1146#, FFP 20-26#, FSIP 1079#, IHP 1959#, FHP 1954#, BHT 120 Deg. F.

DST #2(Miss. Chert) 4754' - 4773'(Corrected Depths to Log) Test Times 15"-45"-45"-90" IFP Strong Blow BOB/20 Sec., Gas to surface in 10 Min., FFP Gas to Surface throughout Stabilized Rate of 147 MCFGPD in 45 Min., Gas burns bright orange flame; no Blowback on SI's; REC: 5' Drlg. Mud with oil specks, no water; IFP 37-49#, ISIP 1533#, FFP 30-39#, FSIP 1467# and building, IHP 2269#, FHP 2261#, BHT 139 Deg. F.

DST #3(Miss. Chert) 4773' - 4788'(Corrected Depths to Log) Test Times 30"-45"-30"-60" IFP Weak Blow building to 5.3", FFP Weak Blow building to 3.7", No Blowback on SI's; REC: 85' Gas in Pipe, 40' Drilling Mud, no oil or water; IFP 12-21#, ISIP 803#, FFP 24-28#, FSIP 827#, IHP 2274#, FHP 2273#, BHT 125 Deg. F.

## Comments

6/9/18 MIRU Sterling Drilling Co. Rig #4, Spud at 7:00 PM. , 6/10/18 TD. 656' - Wiper Trip prior to setting 8 5/8" Casing; 6/11/18 Drilling at 1400'; 6/12/18 Drilling at 3000'; 6/13/18 TD. 3941' - Bit Trip; 6/14/18 TD. 4207' - DST #1; 6/15/18 Drilling at 4465'; 6/16/18 TD. 4775' - DST #2; 6/17/18 TD. 4790' - DST #3 - Reached TD. 4820' at 12:45 PM. LTD. 4818'; 6/18/18 RTD. 4820' - LDDP for setting 5 1/2" Production Casing.

Set new 8 5/8"(24#) Surface Casing at 652' KB. with 350 sacks cement(Basic Energy Services). Cement did Circulate. PD. at 11:00 AM. 6/10/18.

Set used 5 1/2"(15.5# and 17#) Production Casing at 4819' with 200 sacks of Cement(Basic Energy Services). PD. at 3:40 PM. on 6/18/18.

Surveys: 1.25 Deg. at 656'(Surface Casing); 0.25 Deg. at 3941'(Bit Trip); 1.50 Deg. at 4207'(DST #1); 1.0 Deg. at 4775'(DST #2); 0.75 Deg. at 4820' RTD.


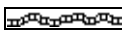
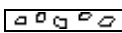
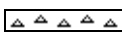
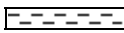







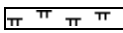
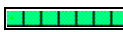
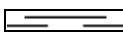
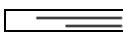
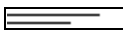



Pipe Strap at 3941'(Bit Trip): Strap 1.69' Short to the Board, no correction made to the Board.

After review of the Halliburton logs, DST data and sample shows, the operator elected to set 5 1/2" Production Casing for completion in the Mississippi Chert.








































































LOG TOPS: Blaine Anhy. 1179(+1018), Chase 2434(-237), Stotler Lmst. 3394(-1197), Howard 3596(-1399), Queen Hill Shale 3892(-1695), Heebner Shale 4026(-1829), Toronto 4044(-1847), Brown Lmst. 4178(-1981), Lansing 'A' 4186(-1989), Lansing/KC 'H' 4345(-2148), KC 'I' 4391(-2194), KC 'J' 4434(-2237), Stark Shale 4474(-2277), Hertha 4524(-2327), BKC 4564(-2367), Marmaton 4610(-2413), Pawnee 4660(-2463), Cherokee Shale 4695(-2498), Reworked Miss. 4749(-2552), Clean Miss. Chert 4763(-2566), Kinderhook Shale 4804(-2607).

NOTE: Portions of this log were shifted upward by 2' for correlation purposes with the Halliburton logs. The correction occurred after the Bit Trip at 3941' on to Total Depth.

## 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**  
 Earthy  
 Fenest  
 Fracture  
 Inter  
 Moldic  
 Organic  
 Pinpoint

Vuggy

**SORTING**  
 Well  
 Moderate  
 Poor

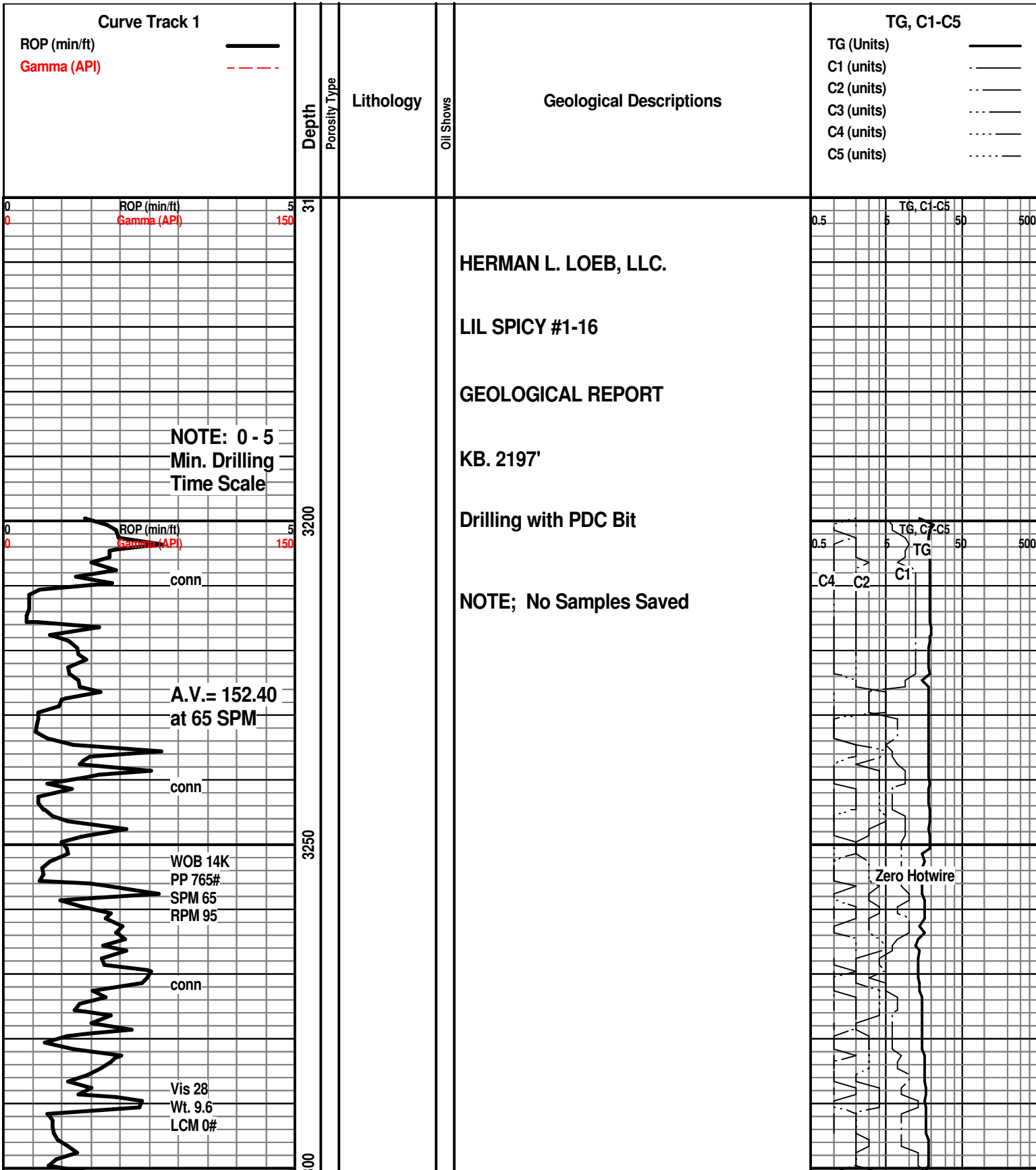
**ROUNDING**  
 Rounded  
 Subrnd  
 Subang  
 Angular

Spotted  
 Ques  
 Dead

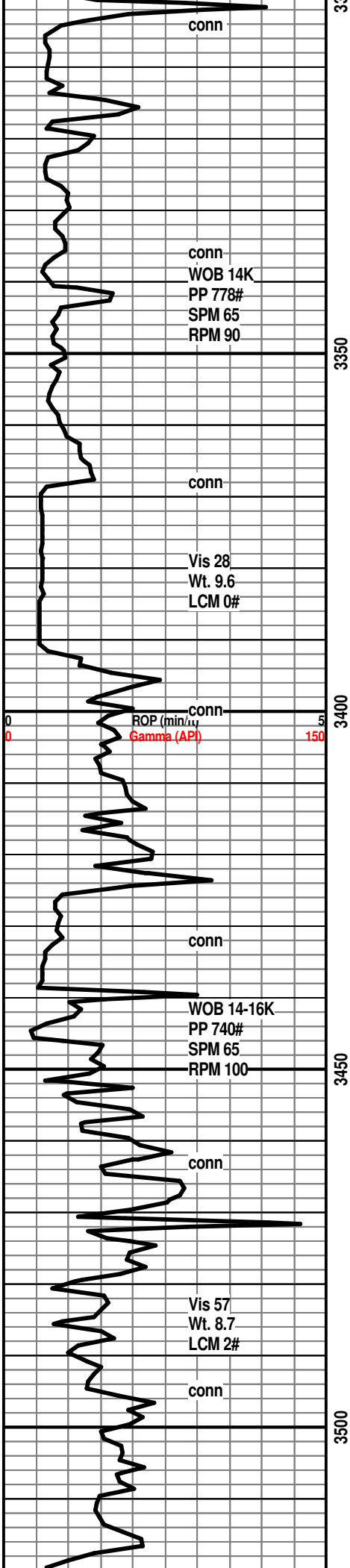
**EVENT**  
 Rft  
 Sidewall

**OIL SHOW**  
 Even

**INTERVAL**  
 Core  
 Dst

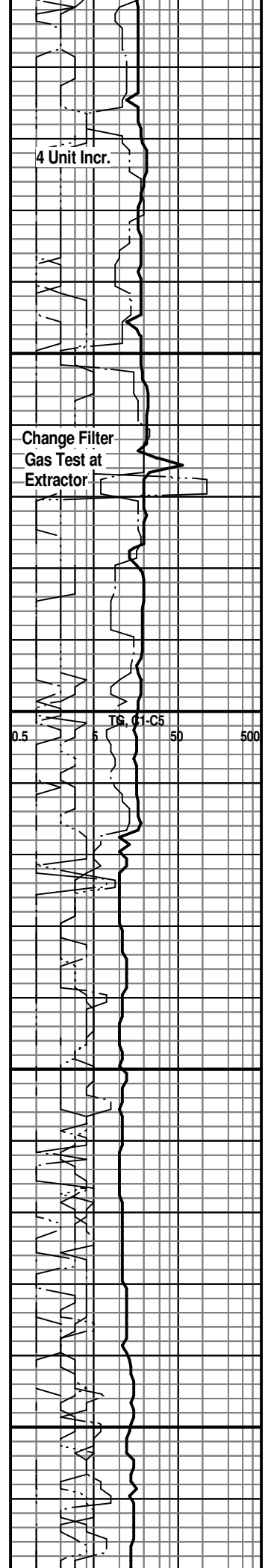


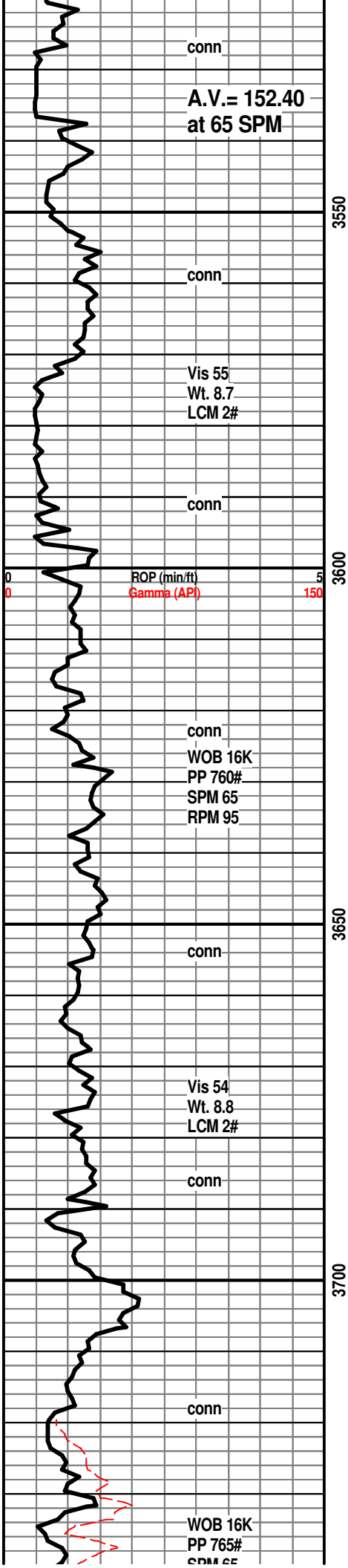




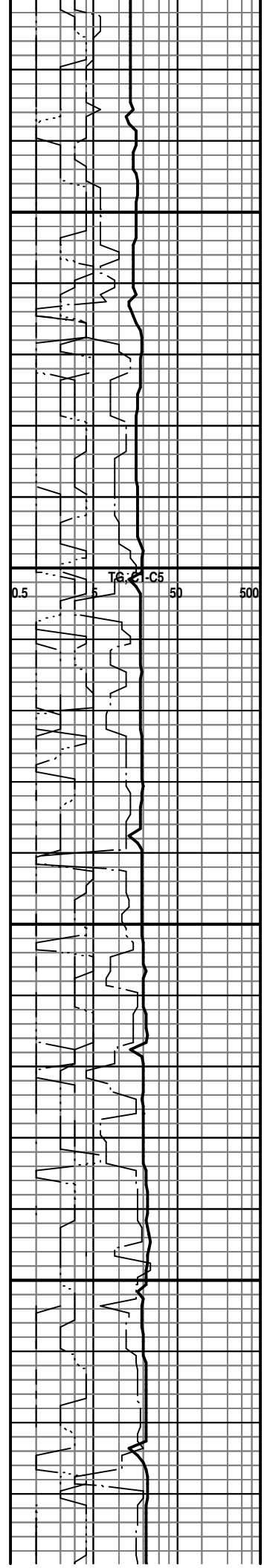
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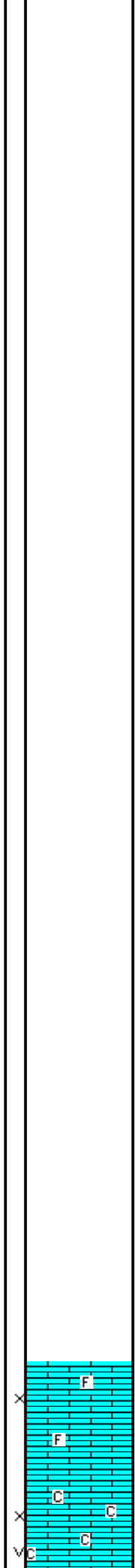
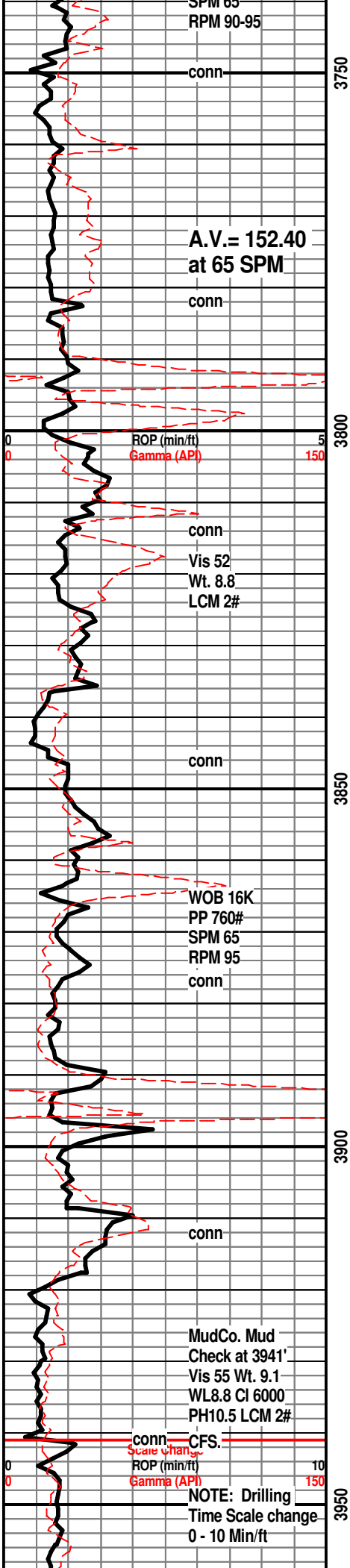
DISPLACE MUD SYSTEM AT 3432'





HOWARD 3596(-1399)



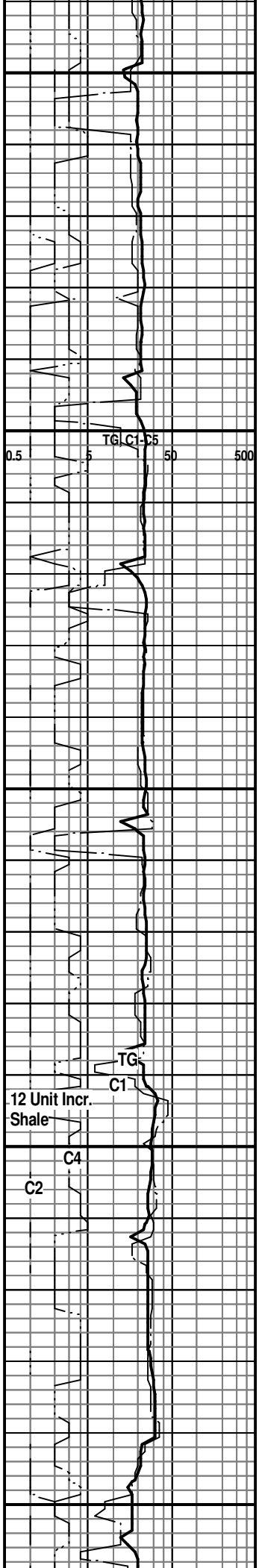


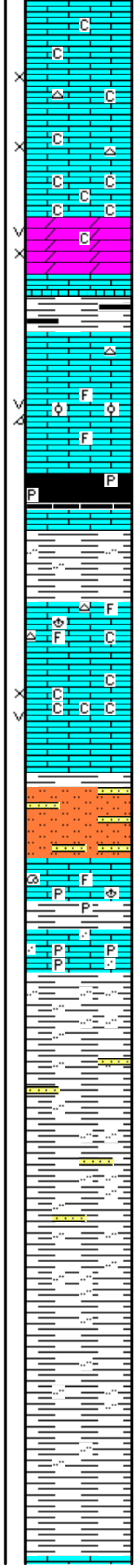
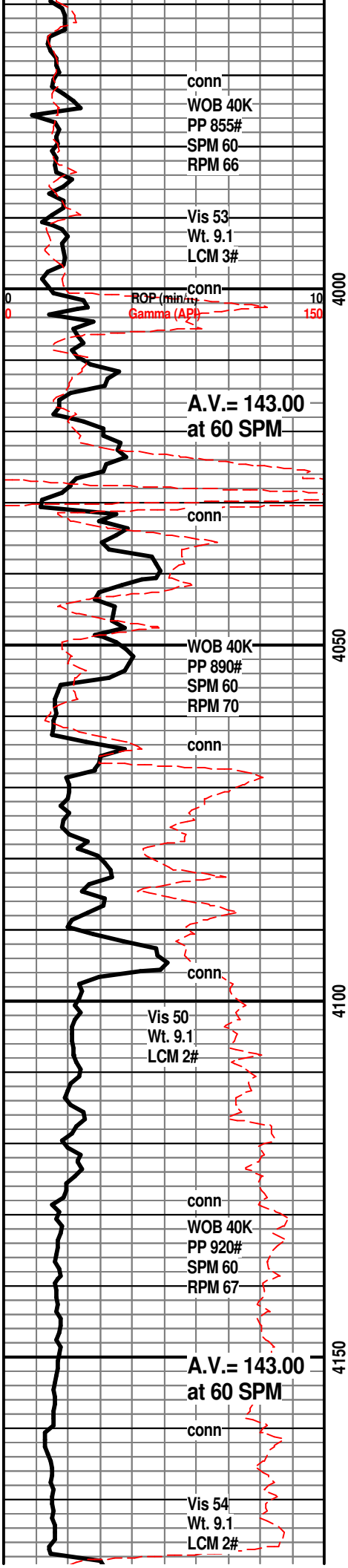
**QUEEN HILL SHALE 3892(-1695)**

LM; tan to lt brn, f to med xln, scat foss mat, spotty lt to med yel min fluor, poor to fair interxln por, no stn or odor, ns.

**BIT TRIP AT 3941'**  
Strap Pipe, Survey and Pull PDC Bit  
Drilling with Button Bit - Start 10' Wet  
and Dry Samples 3950'

LM; tan to buff, wh, f to med xln, gd interxln w/scat vug por, interbedd chalk and chalky lmst. lt vel min fluor, ns.





LM; off wh, tan/lt brn, f to med xln, scat spar calc xtals, fair interxln por, chalky ip, minor wh/lt gy cht, lt yel fluor, ns.

LM; lt to med brn, rare tan, fxln to sucrosic text - partly dolomitic, some lmy tite dolo, lt yel min fluor, no stn or odor, interbdd v. chalky soft lmst.

SH; dk gy, rare blk, platy

LM; tan to lt gy, gy brn, fxln, most dense - blocky, rare lt gy cht, no vis por, no stn or odor, ns.

LM; tan to lt brn, foss, some partly oolitic, fair vug w/some moldic por, no fluor, no stn, ns.

**HEEBNER SHALE 4026(-1829)**  
SH; blk, carb, blocky, trc gas, pyr ip.  
LM; med brn, v. hd, blocky, tite

SH; grn, gy grn, sticky, rarely silty

**TORONTO 4044(-1847)**  
LM; tan to buff, off wh, fxln w/scat foss mat, most well cem, minor chalky mtx, dull yel min fluor, cherty ip, no stn or odor, ns.

LM; off wh, med to occ cse xln, chalky mtx, soft ip, fair interxln w/vug por, dull to lt yel min fluor, no stn or odor, no gas kick, ns.

**DOUGLAS SHALE 4068(-1871)**  
SLTST; lt gy, sandy/mica ip, firm

LM; med brn, gy brn, hd, occ pyr, interbdd highly foss well cem lmst, no vis por, ns.

LM; lt to med brn, pyr, sandy ip, tite

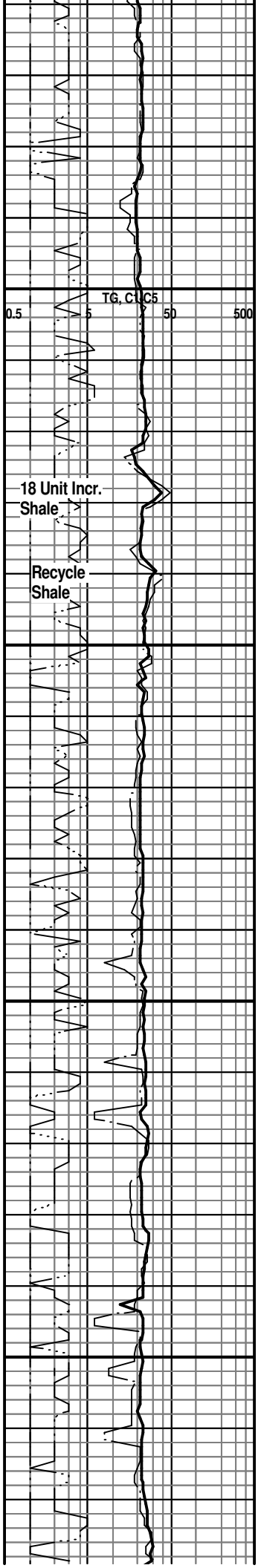
SH; lt gy, rare gy grn, silty, platy, some smooth

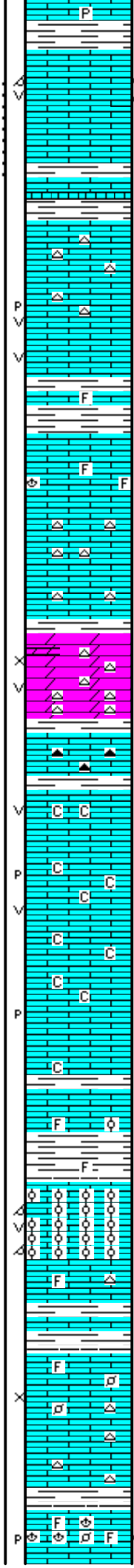
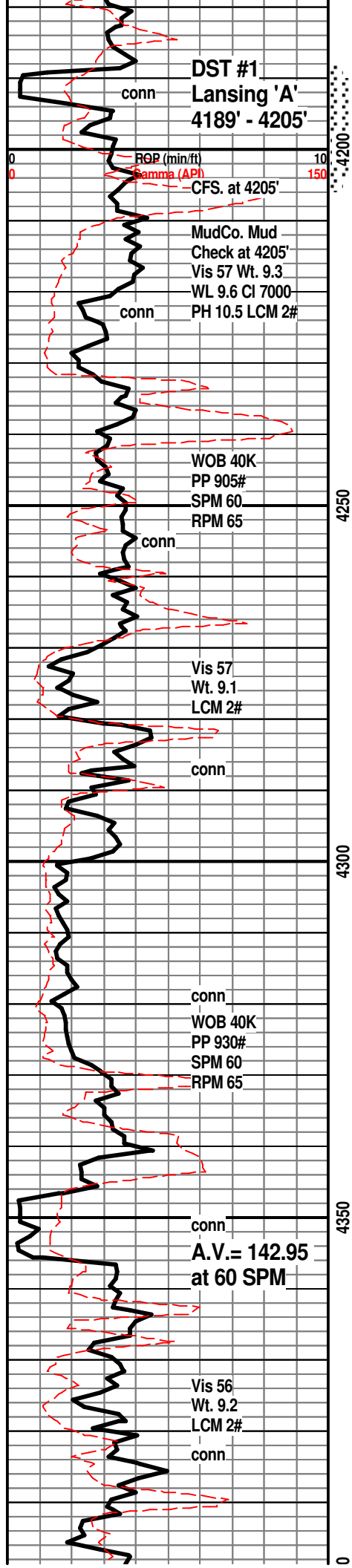
SH; lt to med gy, silty to sandy, interbdd mica ss strngs

SH; lt to med gy, platy, smooth, less silty

SH; lt to med gy, most smooth, platy

**BROWN MST 4178(-1981)**





LM; med brn, dense, trc pyr, tite

**LANSING 'A' 4186(-1989)**  
 LM; lt brn, tan, oolitic, gd oomoldic with some vug por, med to occ brite yel fluor, sev. gas bubbles vis, sev. pcs w/spotted to even lt to med brn oil stn, fair to gd odor, SFO, fair/gd cut

**DST #1: Lansing 'A' 4189' - 4205' - Corrected Depths to Log**

**LANSING 'B' 4210(-2013)**  
 LM; tan to lt gy, off wh, fxln, most dense - micritic, scat off wh to wh cht, no vis por, ns.

LM; off wh, tan, lt gy, fxln w/occ p-p and small vug por, minor wh cht, no vis stn, no odor, ns.

LM; off wh, lt gy, fxln, scat small vug por, no fluor, no stn or odor, no gas kick, ns.

LM; med brn, gy brn, hd, foss ip  
 SH; med gy, gy grn, platy

LM; med to dk brn, foss ip, dense, blocky

LM; tan to lt brn, dense, cherty ip, tite, no vis por, ns.

DOL; off wh, sucrosic text, scat vug and fair interxln por, lt yel min fluor, cherty ip, ns.

LM; tan to med brn, most dense, cherty ip w/scat dk gy cht, tite, ns.

LM; off wh, tan, buff, fxln, soft ip w/occ chalky mtx, occ small vug por, no fluor, ns.

LM; off wh, tan, buff, f to med xln, some partly dolomitic, scat vug and p-p por, no fluor, no stn or odor, chalky ip.

LM; tan to cream, f to med xln, fair interxln w/scat p-p por, no fluor, no stn or odor, minor chalky mtx, ns.

LM; med to dk brn, foss, hd, tite  
 SH; dk gy, platy, foss ip.

**LANSING/K.C. 'H' 4345(-2148)**  
 LM; tan to lt brn, oolitic, well dev. oomoldic por, occ vug por, brittle ip, v. dull yel min fluor, no stn or odor, no sample shows

LM; tan to lt brn, hd, rarely foss, trc gy cht, tite

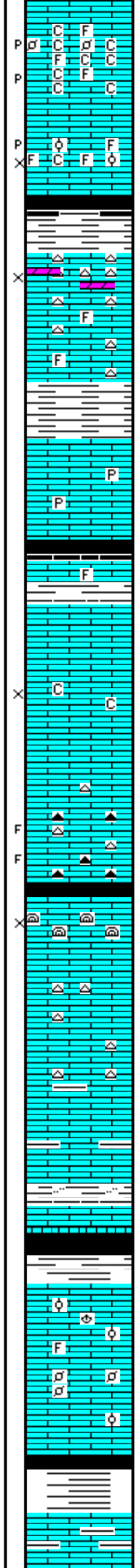
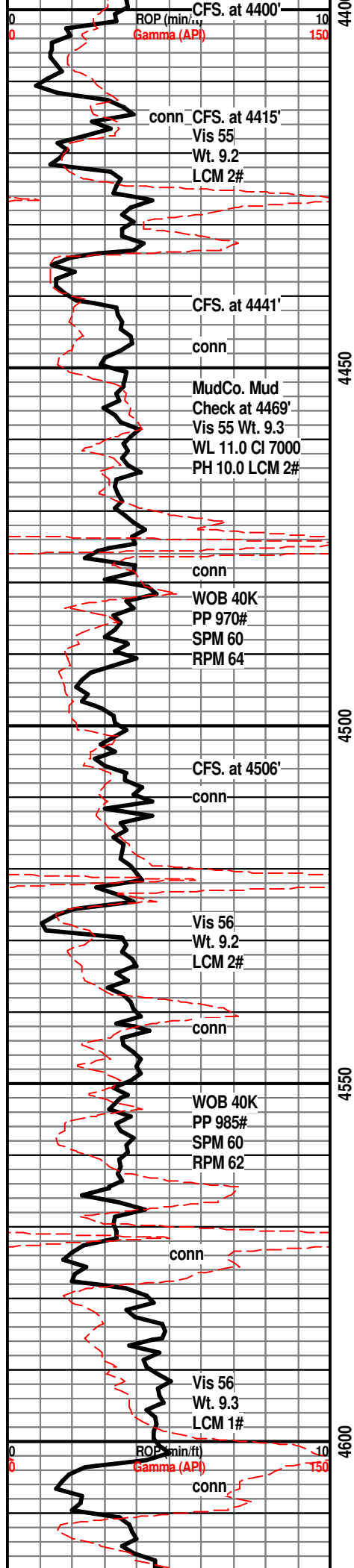
SH; grn, gy grn, platy

LM; tan to lt brn, foss w/scat frags and small pellets, most well cem, scat gy cht, poor interpart por, no fluor, no stn, ns.

LM; lt brn, most dense - micritic, blocky, scat amber cht, no vis por, ns.

**KANSAS CITY 'I' 4391(-2194)**  
 LM; tan, buff, foss w/scat small pellets/ooids, only a few pcs. w/lt brn spotted to even oil stn w/gd p-p por, SSFO, gd odor when broken, brite yel fluor - not seen until





ga odor when broken, brn/yel hor - not seen until CFS. at 4417' (maybe a 1' zone?), most of zone has no show

LM; tan to off wh, foss w/well dev. p-p por, much pure wh chalk and chalky mtz, no fluor, no stn or odor, ns.

LM; tan to buff, off wh, foss w/few scat oolites and foss mat, fair interpart w/occ p-p por, no fluor, minor chalky mtz, no stn or odor, ns.

SH; dk gy, blk, platy

**KANSAS CITY 'J' 4434(-2237)**  
LM; tan to cream, off wh, f to med xln w/abnt wh fresh cht, fair interxln por, some sucrosic text - partly dolomitic, v. dull yel min fluor, no stn or odor, no gas kick, ns.

LM; tan to lt brn, foss ip, dense, scat wh cht, no vis por, ns.

SH; dk gy, gy brn, lmy ip, v. firm

LM; med brn, micritic, occ pyr, dense, interbdd gy to gy brn cht

**STARK SHALE 4474(-2277)**  
SH; blk, carb ip, blocky  
LM; lt to med brn, gy brn, rare foss mat, tite

**SWOPE 4483(-2286)**  
LM; off wh, buff, fxln, most dense, trc sucrosic text, no vis por, no fluor, ns.

LM; off wh, buff, fxln w/scat spar calc xtals, sev. pcs. w/sucrosic text, fair interxln por, minor chalk and chalky mtz, no fluor, no stn or odor, no sample shows

LM; med brn, occ dk brn, most dense - micritic, blocky, scat dk gy to blk cht, occ frac w/spar calc on frac faces, tite

SH; blk, carb, gassy

**HERTHA 4524(-2327)**  
LM; med gy brn, algal reef mat, brittle ip, gd interpart por, v. dull yel fluor, no stn or odor, ns.

LM; med brn, most dense, micritic, occ cherty w/med to dk gy cht, tite

LM; med brn, occ dk brn, hd, some argil, tite

**BASE KANSAS CITY 4564(-2367)**  
LM; rust red, red brn, oxidized, nodular

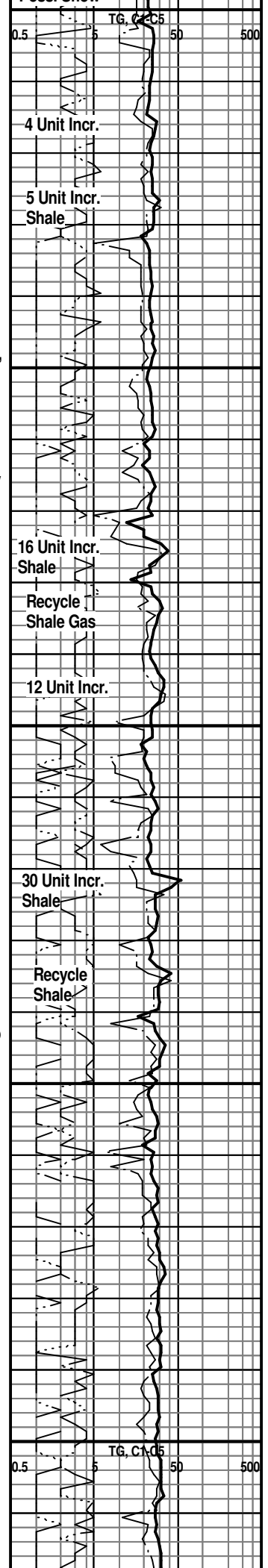
SH; grn, gy grn, trc blk, some varic. rust red

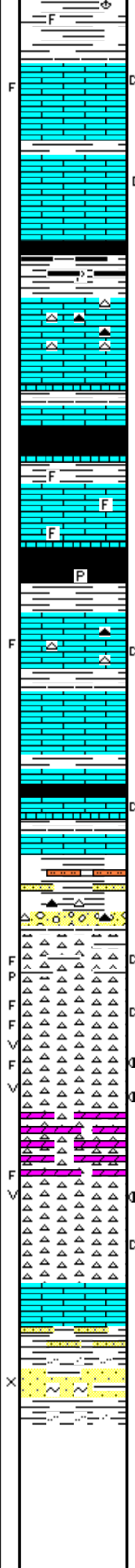
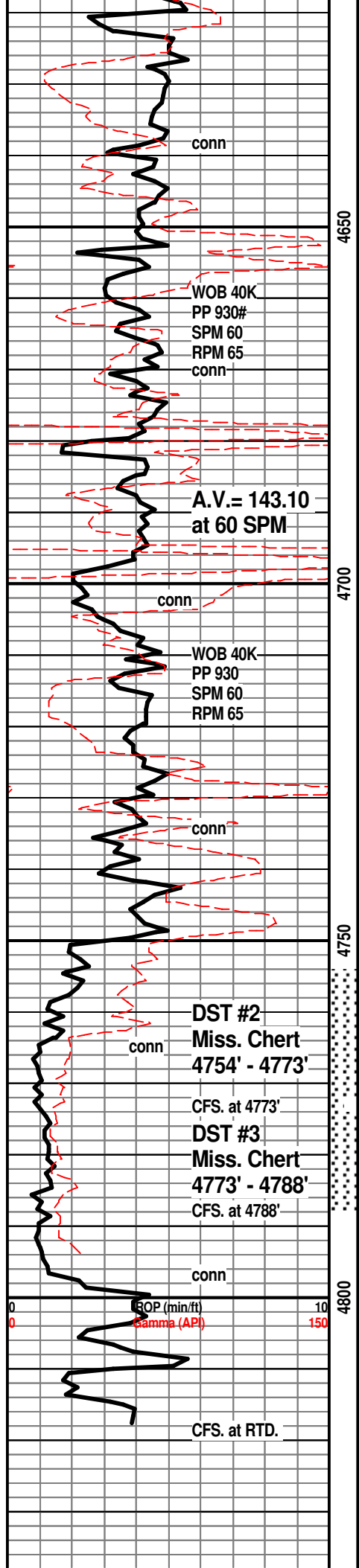
**PLEASANTON 4578(-2381)**  
LM; lt gy, lt brn, some off wh, foss ip, well cem, no vis por, no fluor, ns.

LM; lt brn, foss - finely pelletal, scat well cem oolites, no vis por, dull yel min fluor, no stn, ns.

SH; varic, grn, rust red, brn, blk, platy

**MARMATON 4610(-2413)**  
LM; med brn, occ grn tint, argil ip, tite





SH; med gy, gy grn, platy, foss ip, trc varic

LM; lt brn, dense, scat fracs w/dk brn/blk dead oil stn, calc. xtals on frac faces, no odor, no live show, med to brite yel fluor

LM; tan to lt brn, foss ip, most dense - blocky, no vis por, dull yel spotty fluor, few pcs w/blk to dk brn dead oil stn, tite

SH; dk gy, blk, platy, trc pyr

**PAWNEE 4660(-2463)**

LM; lt to med brn, fxln to micritic, blocky, scat amber to lt gy cht, no vis por, no stn or odor, ns.

LM; dk brn, hd, tite

SH; blk, carb, gassy ip.

LM; lt gy to lt brn, hd, rarely foss, most well cem, blocky, scat lt yel fluor, ns.

**CHEROKEE SHALE 4695(-2498)**

SH; blk, carb ip, platy, minor pyr

LM; tan to lt brn, fxln, interbdd amber to org fresh cht, few pcs w/fracs and blk tar/gils, no vis por, no fluor

LM; tan to lt brn, buff, fxln to micritic, most dense, massive bdd lmst, no vis por, no fluor, ns.

LM; lt to med brn, some nodular hd lmst, rare blk dead oil/gils, no vis por, no fluor, ns.

**BASE CHEROKEE LM. 4738(-2541)**

SH; varic, platy, interbdd rust red sltst, some grn vf gr qtz argil ss, washes red, scat dk cht

**REWORKED MISS. 4749(-2552)**

CHT; wh, brn, org, most fresh, fracs w/p-p por, much blk tar/gilsonite, dull/lt yel fluor, no odor

CHT; most wh, fresh and trip, much blk dead tar/gils, fracs, faint gas odor, trip chert has scat med brn live oil stn, dull to lt yel fluor

CHT; wh, off wh, fresh and trip, sev. fracs and weath. edges, occ vug por, spotted live med brn oil stn, SSFO, faint gas odor, occ brite yel fluor

**DST #2: Miss. Chert 4754' - 4773'**

DOL CHT; brn, gy, dense, no por, no fluor, tite

CHT; wh, trip and fresh, fracs, spotted live oil stn, med to occ brite yel fluor, trc FO, gas bubbles, scat vug por, very faint odor

**DST #3: Miss. Chert 4773' - 4788' - Corrected Depth to Log**

CHT; wh, scat blk tar/gils, lt yel fluor, looks tite

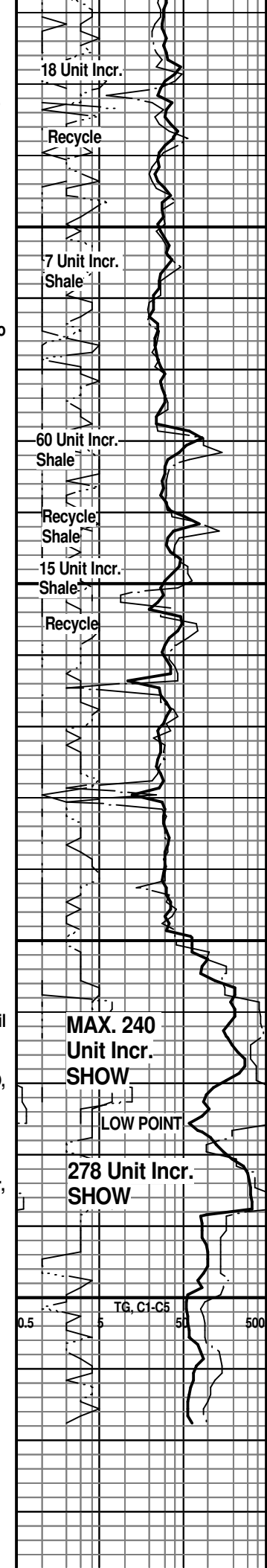
LM; red/brn, silty - gritty text, oxidized, tite

**KINDERHOOK SHALE 4804(-2607)**

SH; med gy, gy grn, firm, occ ss strngs - glau

SS; lt gy, grn, vf. to f gr qtz, poor intergran por, scat glau, some argil

SH; grn, gy grn, silty to sandy, firm



RTD. 4820' at 12:45 PM. 6/17/18

LTD. 4616

Halliburton DIL, NEU/DEN w/PE,  
Microlog, Sonic

**NOTE:** The lower portion of this log  
(below the Bit Trip at 3941' to TD.) was  
shifted upward by 2' for correlation  
purposes with the Halliburton logs.

4850

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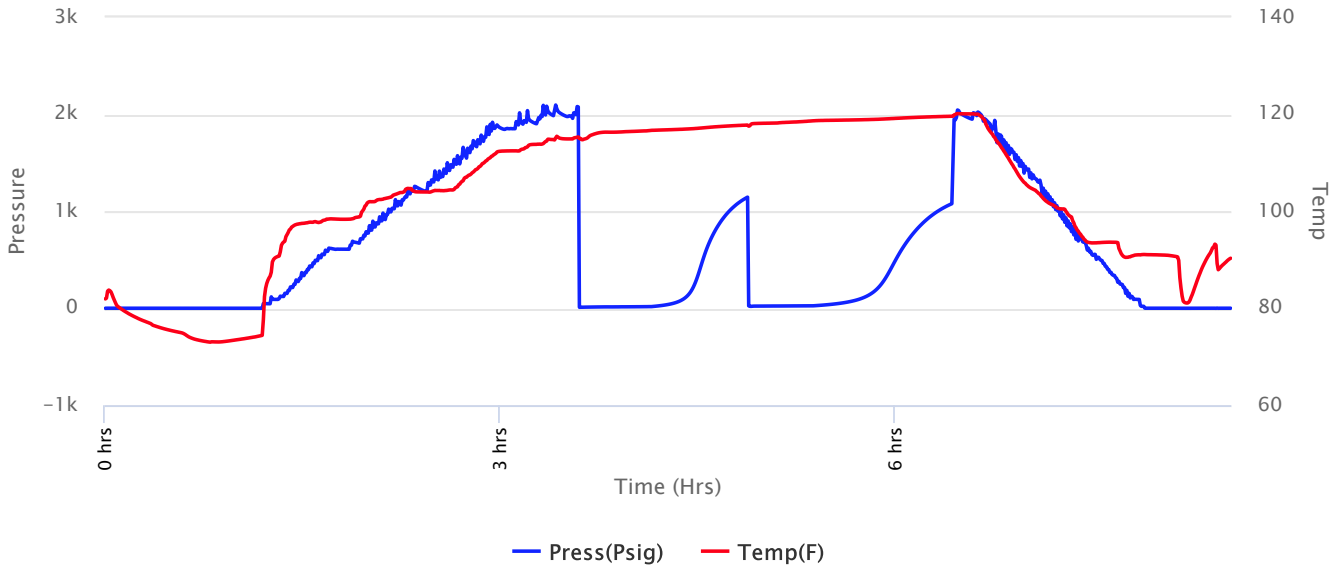
**Company: Herman L Loeb, LLC**  
**Lease: LIL SPICY #1-16**

SEC: 16 TWN: 27S RNG: 18W  
 County: KIOWA  
 State: Kansas  
 Drilling Contractor: Sterling Drilling  
 Company - Rig 4  
 Elevation: 2186 GL  
 Field Name: Wildcat  
 Pool: WILDCAT  
 Job Number: 171

**DATE**  
 June  
**14**  
 2018

**DST #1 Formation: Lansing "A" Test Interval: 4191 - 4207' Total Depth: 4207'**  
 Time On: 03:55 06/14 Time Off: 12:13 06/14  
 Time On Bottom: 07:24 06/14 Time Off Bottom: 10:09 06/14

Electronic Volume Estimate: 14'	<u>1st Open</u> Minutes: 30 .7" at 30 min	<u>1st Close</u> Minutes: 45 0" at 45 min	<u>2nd Open</u> Minutes: 30 0" at 30 min	<u>2nd Close</u> Minutes: 60 0" at 60 min
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**Company: Herman L Loeb, LLC**  
**Lease: LIL SPICY #1-16**

SEC: 16 TWN: 27S RNG: 18W  
 County: KIOWA  
 State: Kansas  
 Drilling Contractor: Sterling Drilling  
 Company - Rig 4  
 Elevation: 2186 GL  
 Field Name: Wildcat  
 Pool: WILDCAT  
 Job Number: 171

**DATE**  
 June  
**14**  
 2018

**DST #1**      **Formation: Lansing "A"**      **Test Interval: 4191 - 4207'**      **Total Depth: 4207'**  
 Time On: 03:55 06/14      Time Off: 12:13 06/14  
 Time On Bottom: 07:24 06/14      Time Off Bottom: 10:09 06/14

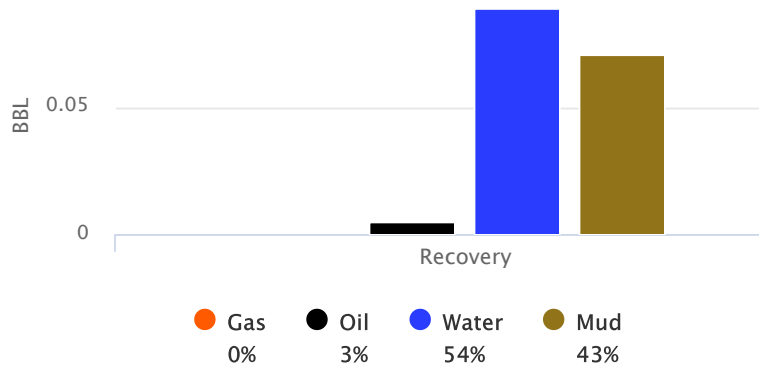
Recovered

Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
30	0.1644	SLOCHMCW	0	3	54	43

Total Recovered: 30 ft  
 Total Barrels Recovered: 0.1644

Reversed Out  
 NO

Recovery at a glance



Initial Hydrostatic Pressure	1959	PSI
Initial Flow	10 to 18	PSI
<b>Initial Closed in Pressure</b>	<b>1146</b>	<b>PSI</b>
Final Flow Pressure	20 to 26	PSI
<b>Final Closed in Pressure</b>	<b>1079</b>	<b>PSI</b>
Final Hydrostatic Pressure	1954	PSI
Temperature	120	°F
Pressure Change Initial Close / Final Close	5.9	%



**Company: Herman L Loeb, LLC**  
**Lease: LIL SPICY #1-16**

SEC: 16 TWN: 27S RNG: 18W  
County: KIOWA  
State: Kansas  
Drilling Contractor: Sterling Drilling  
Company - Rig 4  
Elevation: 2186 GL  
Field Name: Wildcat  
Pool: WILDCAT  
Job Number: 171

<p><b>DATE</b> June <b>14</b> 2018</p>
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<b>DST #1</b>	<b>Formation: Lansing "A"</b>	<b>Test Interval: 4191 - 4207'</b>	<b>Total Depth: 4207'</b>
	Time On: 03:55 06/14	Time Off: 12:13 06/14	
	Time On Bottom: 07:24 06/14	Time Off Bottom: 10:09 06/14	

**REMARKS:**

IF: Surface to 1/2" blow  
ISI: No BB  
FF: Weak surface blow  
FSI: No BB

TOOL SAMPLE: TRACE OIL, 50% WATER, 50% MUD

Ph: 8.0

RW: .24 @ 80 degrees F

Chlorides: 23,000 ppm









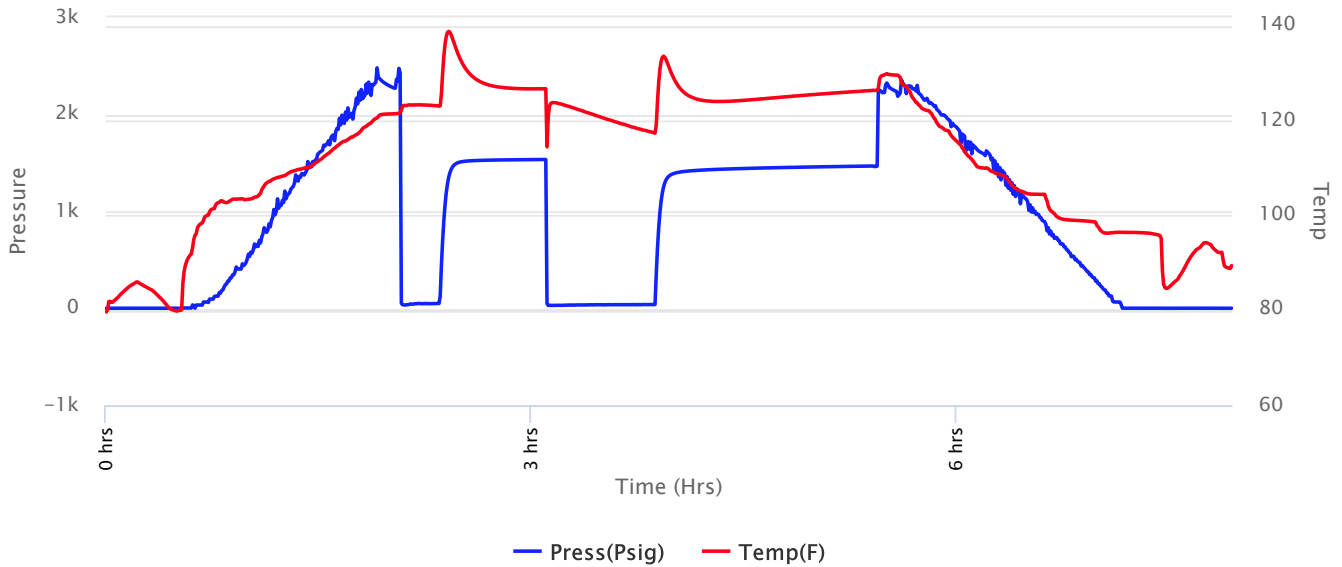
**Company: Herman L Loeb, LLC**  
**Lease: Lil Spicy #1-16**

SEC: 16 TWN: 27S RNG: 18W  
 County: KIOWA  
 State: Kansas  
 Drilling Contractor: Sterling Drilling  
 Company - Rig 4  
 Elevation: 2186 GL  
 Field Name: Wildcat  
 Pool: WILDCAT  
 Job Number: 171

<b>DATE</b>
June
<b>16</b>
2018

<b>DST #2</b>	<b>Formation:</b> Mississippi	<b>Test Interval: 4756 - 4775'</b>	<b>Total Depth: 4775'</b>
	Time On: 08:52 06/16	Time Off: 16:36 06/16	
	Time On Bottom: 10:53 06/16	Time Off Bottom: 14:08 06/16	

Electronic Volume Estimate: N/A	<u>1st Open</u> Minutes: 15 Gauging gas" at 15 min	<u>1st Close</u> Minutes: 45 0" at 45 min	<u>2nd Open</u> Minutes: 45 Gauging Gas" at 45 min	<u>2nd Close</u> Minutes: 90 0" at 90 min
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**Company: Herman L Loeb, LLC**  
**Lease: Lil Spicy #1-16**

SEC: 16 TWN: 27S RNG: 18W  
 County: KIOWA  
 State: Kansas  
 Drilling Contractor: Sterling Drilling  
 Company - Rig 4  
 Elevation: 2186 GL  
 Field Name: Wildcat  
 Pool: WILDCAT  
 Job Number: 171

**DATE**  
 June  
**16**  
 2018

**DST #2**      **Formation: Mississippi**      **Test Interval: 4756 - 4775'**      **Total Depth: 4775'**  
 Time On: 08:52 06/16      Time Off: 16:36 06/16  
 Time On Bottom: 10:53 06/16      Time Off Bottom: 14:08 06/16

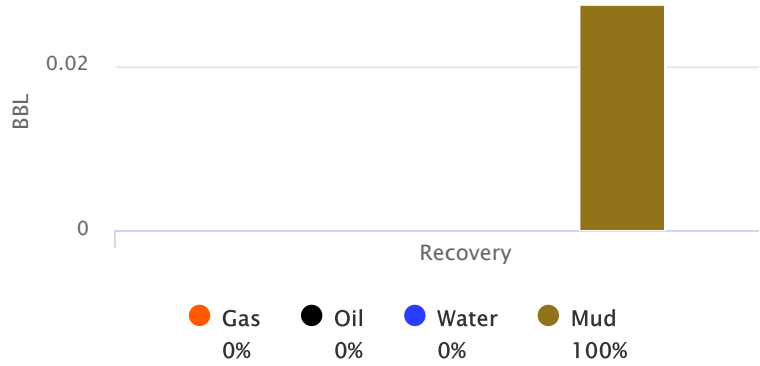
Recovered

Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
5	0.0274	M	0	0	0	100

Total Recovered: 5 ft  
 Total Barrels Recovered: 0.0274

**Reversed Out**  
 NO

**Recovery at a glance**



Initial Hydrostatic Pressure	2269	PSI
Initial Flow	37 to 49	PSI
<b>Initial Closed in Pressure</b>	<b>1533</b>	<b>PSI</b>
Final Flow Pressure	30 to 39	PSI
<b>Final Closed in Pressure</b>	<b>1467</b>	<b>PSI</b>
Final Hydrostatic Pressure	2261	PSI
Temperature	139	°F
Pressure Change Initial Close / Final Close	4.3	%





**Company: Herman L Loeb, LLC**  
**Lease: Lil Spicy #1-16**

SEC: 16 TWN: 27S RNG: 18W  
County: KIOWA  
State: Kansas  
Drilling Contractor: Sterling Drilling  
Company - Rig 4  
Elevation: 2186 GL  
Field Name: Wildcat  
Pool: WILDCAT  
Job Number: 171

<b>DATE</b> June <b>16</b> 2018
--

<b>DST #2</b>	<b>Formation:</b> Mississippi	<b>Test Interval: 4756 -</b> 4775'	<b>Total Depth: 4775'</b>
	Time On: 08:52 06/16	Time Off: 16:36 06/16	
	Time On Bottom: 10:53 06/16	Time Off Bottom: 14:08 06/16	

**REMARKS:**

IF: BOB 20 sec. GTS 10 min.  
ISI: No BB  
FF: BOB inst. GTS inst.  
FSI: No BB

TOOL SAMPLE: TRACE OIL, 100% MUD



**Company: Herman L Loeb, LLC**  
**Lease: Lil Spicy #1-16**

SEC: 16 TWN: 27S RNG: 18W  
County: KIOWA  
State: Kansas  
Drilling Contractor: Sterling Drilling  
Company - Rig 4  
Elevation: 2186 GL  
Field Name: Wildcat  
Pool: WILDCAT  
Job Number: 171

<b>DATE</b> June <b>16</b> 2018
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**DST #2**      **Formation:**      **Test Interval: 4756 -**      **Total Depth: 4775'**  
**Mississippi**      **4775'**  
Time On: 08:52 06/16      Time Off: 16:36 06/16  
Time On Bottom: 10:53 06/16      Time Off Bottom: 14:08 06/16

**Down Hole Makeup**

<b>Heads Up:</b> 10.76 FT	<b>Packer 1:</b> 4751 FT
<b>Drill Pipe:</b> 4523.74 FT <i>ID-3 1/4</i>	<b>Packer 2:</b> 4756 FT
<b>Weight Pipe:</b> 0 FT <i>ID-2 7/8</i>	<b>Top Recorder:</b> 4740.42 FT
<b>Collars:</b> 215.28 FT <i>ID-2 3/8</i>	<b>Bottom Recorder:</b> 4758 FT
<b>Test Tool:</b> 28.74 FT <i>ID-3 1/2-FH</i> <i>Safety Joint</i>	<b>Well Bore Size:</b> 7 7/8
<b>Total Anchor:</b> 19	<b>Surface Choke:</b> 1"
<b>Anchor Makeup</b>	
<b>Packer Sub:</b> 1 FT	<b>Bottom Choke:</b> 5/8"
<b>Perforations: (top):</b> 0 FT <i>4 1/2-FH</i>	
<b>Change Over:</b> 0 FT	
<b>Drill Pipe: (in anchor):</b> 0 FT <i>ID-3 1/4</i>	
<b>Change Over:</b> 0 FT	
<b>Perforations: (below):</b> 18 FT <i>4 1/2-FH</i>	



**Company: Herman L Loeb, LLC**  
**Lease: Lil Spicy #1-16**

SEC: 16 TWN: 27S RNG: 18W  
County: KIOWA  
State: Kansas  
Drilling Contractor: Sterling Drilling  
Company - Rig 4  
Elevation: 2186 GL  
Field Name: Wildcat  
Pool: WILDCAT  
Job Number: 171

<p><b>DATE</b> June <b>16</b> 2018</p>
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**DST #2**      **Formation:**      **Test Interval: 4756 -**      **Total Depth: 4775'**  
**Mississippi**      **4775'**  
Time On: 08:52 06/16      Time Off: 16:36 06/16  
Time On Bottom: 10:53 06/16      Time Off Bottom: 14:08 06/16

**Mud Properties**

**Mud Type:** Chemical      **Weight:** 9.2      **Viscosity:** 49      **Filtrate:** 10.4      **Chlorides:** 8,000 ppm



**Company: Herman L Loeb, LLC**  
**Lease: Lil Spicy #1-16**

SEC: 16 TWN: 27S RNG: 18W  
 County: KIOWA  
 State: Kansas  
 Drilling Contractor: Sterling Drilling  
 Company - Rig 4  
 Elevation: 2186 GL  
 Field Name: Wildcat  
 Pool: WILDCAT  
 Job Number: 171

<b>DATE</b>
June
<b>16</b>
2018

**DST #2**      **Formation: Mississippi**      **Test Interval: 4756 - 4775'**      **Total Depth: 4775'**

Time On: 08:52 06/16      Time Off: 16:36 06/16  
 Time On Bottom: 10:53 06/16      Time Off Bottom: 14:08 06/16

**Gas Volume Report**

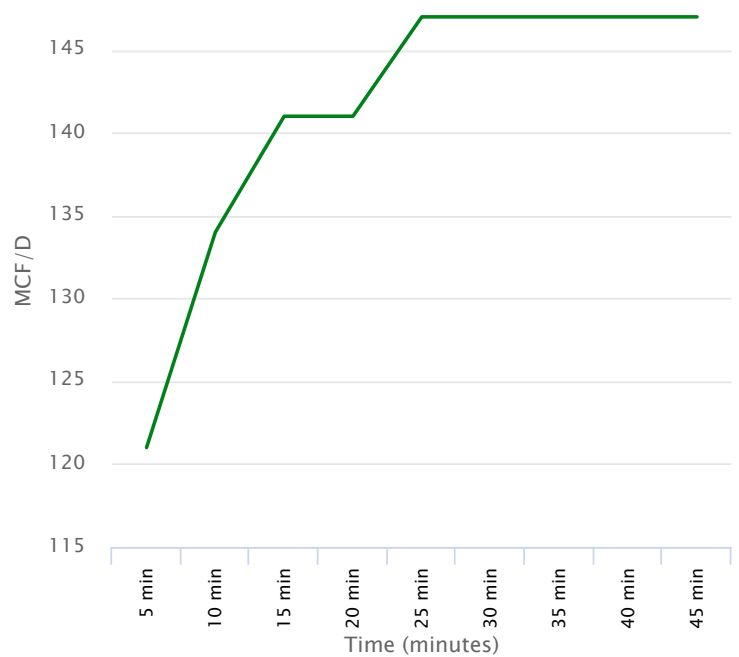
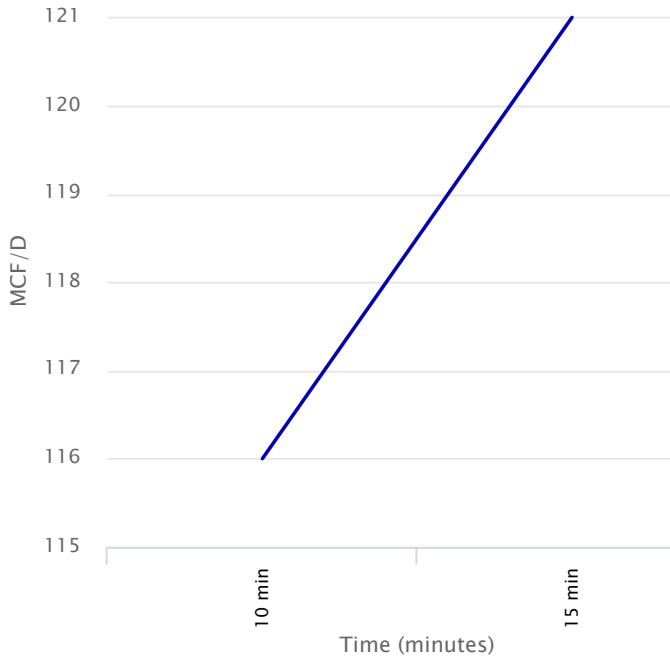
Remarks: GTS 10 mini, to initial flow period Took Gas Sample 5 min. into final flow period

1st Open

Time	Orifice	PSI	MCF/D
10	0.50	10	116
15	0.50	11	121

2nd Open

Time	Orifice	PSI	MCF/D
5	0.50	11	121
10	0.50	13	134
15	0.50	14	141
20	0.50	14	141
25	0.50	15	147
30	0.50	15	147
35	0.50	15	147
40	0.50	15	147
45	0.50	15	147





**Company: Herman L Loeb, LLC**  
**Lease: Lil Spicy #1-16**

SEC: 16 TWN: 27S RNG: 18W  
 County: KIOWA  
 State: Kansas  
 Drilling Contractor: Sterling Drilling  
 Company - Rig 4  
 Elevation: 2186 GL  
 Field Name: Wildcat  
 Pool: WILDCAT  
 Job Number: 171

<b>DATE</b>
June
<b>17</b>
2018

<b>DST #3</b>	<b>Formation:</b> Mississippi	<b>Test Interval: 4775 - 4790'</b>	<b>Total Depth: 4790'</b>
	Time On: 23:39 06/16	Time Off: 07:50 06/17	
	Time On Bottom: 02:30 06/17	Time Off Bottom: 05:15 06/17	

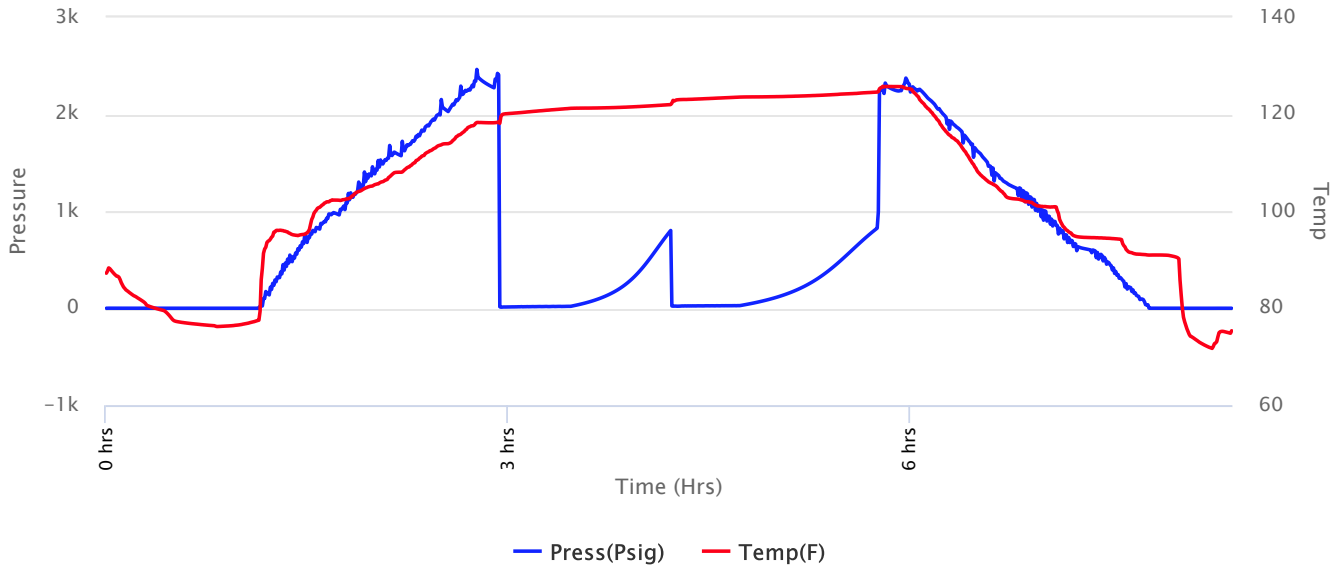
Electronic Volume Estimate:  
208'

1st Open  
Minutes: 30  
5.3" at 30 min

1st Close  
Minutes: 45  
0" at 45 min

2nd Open  
Minutes: 30  
3.7" at 30 min

2nd Close  
Minutes: 60  
0" at 60 min





**Company: Herman L Loeb, LLC**  
**Lease: Lil Spicy #1-16**

SEC: 16 TWN: 27S RNG: 18W  
 County: KIOWA  
 State: Kansas  
 Drilling Contractor: Sterling Drilling  
 Company - Rig 4  
 Elevation: 2186 GL  
 Field Name: Wildcat  
 Pool: WILDCAT  
 Job Number: 171

**DATE**  
 June  
**17**  
 2018

**DST #3**      **Formation: Mississippi**      **Test Interval: 4775 - 4790'**      **Total Depth: 4790'**  
 Time On: 23:39 06/16      Time Off: 07:50 06/17  
 Time On Bottom: 02:30 06/17      Time Off Bottom: 05:15 06/17

Recovered

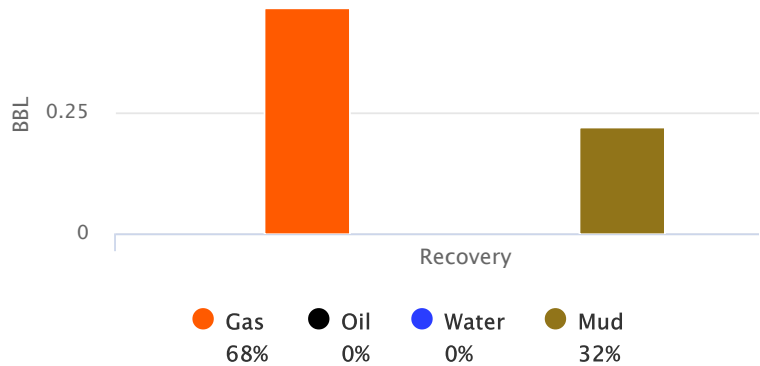
Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
85	0.4658	G	100	0	0	0
40	0.2192	M	0	0	0	100

Total Recovered: 125 ft  
 Total Barrels Recovered: 0.685

Reversed Out  
 NO

Initial Hydrostatic Pressure	2274	PSI
Initial Flow	12 to 21	PSI
<b>Initial Closed in Pressure</b>	<b>803</b>	<b>PSI</b>
Final Flow Pressure	24 to 28	PSI
<b>Final Closed in Pressure</b>	<b>827</b>	<b>PSI</b>
Final Hydrostatic Pressure	2273	PSI
Temperature	125	°F
Pressure Change Initial Close / Final Close	0.0	%

**Recovery at a glance**





**Company: Herman L Loeb, LLC**  
**Lease: Lil Spicy #1-16**

SEC: 16 TWN: 27S RNG: 18W  
County: KIOWA  
State: Kansas  
Drilling Contractor: Sterling Drilling  
Company - Rig 4  
Elevation: 2186 GL  
Field Name: Wildcat  
Pool: WILDCAT  
Job Number: 171

<b>DATE</b> June <b>17</b> 2018
--

<b>DST #3</b>	<b>Formation:</b> Mississippi	<b>Test Interval: 4775 -</b> <b>4790'</b>	<b>Total Depth: 4790'</b>
	Time On: 23:39 06/16	Time Off: 07:50 06/17	
	Time On Bottom: 02:30 06/17	Time Off Bottom: 05:15 06/17	

**REMARKS:**

IF: 1/4" building to 5" blow  
ISI: No BB  
FF: 1" building to 3 1/2" blow  
FSI: No BB

TOOL SAMPLE: 100% MUD



**Company: Herman L Loeb, LLC**  
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 Company - Rig 4  
 Elevation: 2186 GL  
 Field Name: Wildcat  
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<p><b>DATE</b>          June  <b>17</b>          2018</p>
---

**DST #3**      **Formation:**      **Test Interval: 4775 -**      **Total Depth: 4790'**  
**Mississippi**      **4790'**  
 Time On: 23:39 06/16      Time Off: 07:50 06/17  
 Time On Bottom: 02:30 06/17      Time Off Bottom: 05:15 06/17

**Down Hole Makeup**

<b>Heads Up:</b> 23.66 FT	<b>Packer 1:</b> 4770 FT
<b>Drill Pipe:</b> 4555.64 FT <i>ID-3 1/4</i>	<b>Packer 2:</b> 4775 FT
<b>Weight Pipe:</b> 0 FT <i>ID-2 7/8</i>	<b>Top Recorder:</b> 4759.42 FT
<b>Collars:</b> 215.28 FT <i>ID-2 3/8</i>	<b>Bottom Recorder:</b> 4777 FT
<b>Test Tool:</b> 28.74 FT <i>ID-3 1/2-FH</i> <i>Safety Joint</i>	<b>Well Bore Size:</b> 7 7/8
<b>Total Anchor:</b> 15	<b>Surface Choke:</b> 1"
<u><b>Anchor Makeup</b></u>	<b>Bottom Choke:</b> 5/8"
<b>Packer Sub:</b> 1 FT	
<b>Perforations: (top):</b> 0 FT <i>4 1/2-FH</i>	
<b>Change Over:</b> 0 FT	
<b>Drill Pipe: (in anchor):</b> 0 FT <i>ID-3 1/4</i>	
<b>Change Over:</b> 0 FT	
<b>Perforations: (below):</b> 14 FT <i>4 1/2-FH</i>	





**Company: Herman L Loeb, LLC**  
**Lease: Lil Spicy #1-16**

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State: Kansas  
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Company - Rig 4  
Elevation: 2186 GL  
Field Name: Wildcat  
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<b>DATE</b> June <b>17</b> 2018
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**DST #3**      **Formation:**      **Test Interval: 4775 -**      **Total Depth: 4790'**  
**Mississippi**      **4790'**  
Time On: 23:39 06/16      Time Off: 07:50 06/17  
Time On Bottom: 02:30 06/17      Time Off Bottom: 05:15 06/17

**Mud Properties**

**Mud Type:** Chemical      **Weight:** 9.2      **Viscosity:** 49      **Filtrate:** 10.4      **Chlorides:** 8,000 ppm



**Company: Herman L Loeb, LLC**  
**Lease: Lil Spicy #1-16**

SEC: 16 TWN: 27S RNG: 18W  
 County: KIOWA  
 State: Kansas  
 Drilling Contractor: Sterling Drilling  
 Company - Rig 4  
 Elevation: 2186 GL  
 Field Name: Wildcat  
 Pool: WILDCAT  
 Job Number: 171

<b>DATE</b>
June
<b>17</b>
2018

**DST #3**      **Formation:**      **Test Interval: 4775 -**      **Total Depth: 4790'**  
**Mississippi**      **4790'**  
 Time On: 23:39 06/16      Time Off: 07:50 06/17  
 Time On Bottom: 02:30 06/17      Time Off Bottom: 05:15 06/17

**Gas Volume Report**

1st Open

2nd Open

Time	Orifice	PSI	MCF/D
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Time	Orifice	PSI	MCF/D
------	---------	-----	-------

6/15 ✓



PAGE	CUST NO	YARD #	INVOICE DATE
1 of 1	1007589	1718	06/11/2018
<b>INVOICE NUMBER</b>			
<b>92728483</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 Lil Spicy 1-16  
**O** LOCATION  
**B** COUNTY Kiowa  
**S** STATE KS  
**I** JOB DESCRIPTION Cement-New Well Casing/Pi  
**T** JOB CONTACT  
**E**

6076-6420 - LIT SPICY

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
41112906	20920		Net - 30 days	07/11/2018

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
<b>For Service Dates: 06/10/2018 to 06/10/2018</b>				
0041112906				
171816496A Cement-New Well Casing/Pi 06/10/2018 Cement/Surface				
A-Con' Blend	175.00	EA	10.84	1,896.93 T
60/40 POZ	175.00	EA	7.23	1,264.62 T
Celloflake	88.00	EA	2.23	196.08 T
Calcium Chloride	948.00	EA	0.63	599.43 T
"Top Rubber Cmt Plug, 8 5/8""	1.00	EA	135.49	135.49
"Guide Shoe - Regular, 8 5/8"" (Blue)"	1.00	EA	228.84	228.84
"Baffle Plate Alum., 8 5/8"" (Blue)"	1.00	EA	102.37	102.37
"8 5/8"" Basket (Blue)"	1.00	EA	189.69	189.69
"Unit Mileage Chg (PU, cars one way)"	40.00	MI	2.71	108.40
Heavy Equipment Mileage	80.00	MI	4.52	361.32
632---Propp & Bulk Del Chgs per ton mil	1.00	EA	950.92	950.92
Depth Charge; 501'-1000'	1.00	EA	722.64	722.64
Blending & Mixing Service Charge	350.00	BAG	0.84	295.08
Plug Container Util. Chg.	1.00	EA	150.55	150.55
"Service Supervisor, first 8 hrs on loc.	1.00	EA	105.38	105.38

PAID  
 93301  
 JUN 26 2018  
 SCANNED

<b>PLEASE REMIT TO:</b>	<b>SEND OTHER CORRESPONDENCE TO:</b>	<b>SUB TOTAL</b>	7,307.74
<b>BASIC ENERGY SERVICES,LP</b>	<b>BASIC ENERGY SERVICES,LP</b>	<b>TAX</b>	296.78
<b>PO BOX 841903</b>	<b>801 CHERRY ST, STE 2100</b>	<b>INVOICE TOTAL</b>	7,604.52
<b>DALLAS, TX 75284-1903</b>	<b>FORT WORTH, TX 76102</b>		







PAGE	CUST NO	YARD #	INVOICE DATE
1 of 1	1007589	1718	06/19/2018
INVOICE NUMBER			
92735609			

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 Lil Spicy 1-16  
 O LOCATION  
 B COUNTY Kiowa  
 S STATE KS  
 I JOB DESCRIPTION Cement-New Well Casing/Pi  
 T JOB CONTACT  
 E

6076 6420 LIL SPICY

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
41114493	19843		Net - 30 days	07/19/2018

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
<b>For Service Dates: 06/18/2018 to 06/18/2018</b>				
0041114493				
171816584A Cement-New Well Casing/Pi 06/18/2018 Cement/Longstring				
50/50 POZ	200.00	EA	6.49	1,298.00 T
60/40 POZ	50.00	EA	7.08	354.00 T
Celloflake	51.00	EA	2.18	111.33 T
KCL	453.00	EA	0.88	400.90 T
C-41P	84.00	EA	2.36	198.24 T
C-17	84.00	LB	11.80	991.20 T
Gypsum	840.00	EA	0.44	371.70 T
Gilsonite	1,201.00	EA	0.40	474.76 T
"Auto Fill Float Shoe 5 1/2" (Blue)"	1.00	EA	212.40	212.40
"Latch Down Plug & Baffle, 5 1/2" (Blu	1.00	EA	236.00	236.00
"5 1/2" Basket (Blue)"	1.00	EA	171.10	171.10
"Cmt Scratchers Cable Type, 5 1/2"	2.00	EA	44.25	88.50
"Turbolizer, 5 1/2" (Blue)"	10.00	EA	64.90	649.00
Mud Flush	1,000.00	EA	0.89	885.00 T
Claymax KCL Substitute	5.00	EA	20.65	103.25 T
"Unit Mileage Chg (PU, cars one way)"	40.00	MI	2.66	106.20
Heavy Equipment Mileage	80.00	MI	4.43	354.00
Proppant & Bulk Del. Chgs., per ton mil	420.00	EA	1.48	619.50
Depth Charge; 4001'-5000'	1.00	EA	1,486.80	1,486.80
Blending & Mixing Service Charge	250.00	BAG	0.83	206.50
Plug Container Util. Chg.	1.00	EA	147.50	147.50
"Service Supervisor, first 8 hrs on loc.	1.00	EA	103.25	103.25

PAID  
 83569  
 JUL 10 2018  
 SCANNED

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	9,569.13
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	389.13
PO BOX 841903	801 CHERRY ST, STE 2100	INVOICE TOTAL	9,958.26
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

FIELD SERVICE TICKET

1718 16584 A

16-275-18w

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

DATE OF JOB: 6/18/2018		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: Helmsen Loeb				LEASE: L. J. Spicy				WELL NO. 1-16	
ADDRESS:				COUNTY: Kiowa		STATE: KS			
CITY:				STATE:		SERVICE CREW: D. Green, F. D., D. V. K.			
AUTHORIZED BY:				JOB TYPE: 242/5 1/2 Lonsdorfs					
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME
19843	1 1/4						6/18	AM	7:00
19860	1/2					ARRIVED AT JOB	6/18	AM	10:00
						START OPERATION	6/18	AM	2:45
						FINISH OPERATION	6/18	AM	4:00
						RELEASED	6/18	AM	5:30
						MILES FROM STATION TO WELL	44		

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	200		2,200 00
CP103	60/40 P02	SK	50		600 00
CC102	Cellulose	Lb	51		188 70
CC100	KCL	Lb	453		679 50
CC105	C-41P	Lb	84		336 00
CC148	C-17	Lb	84		1680 00
CC113	Gypsum	Lb	840		630 00
CC201	Gilsonite	Lb	1201		804 67
CF1251	Auto Fill Flost + Stoc, 5 1/2 (Blue)	ES	1		360 00
CF607	Latch Down Plug + Baffle, 5 1/2 (Blue)	ES	1		400 00
CF1901	5 1/2 Basket (Blue)	ES	1		290 00
CF2001	Cement + Screenshot Cable Type, 5 1/2	ES	2		150 00
CF1651	Turbolizers, 5 1/2 (Blue)	ES	10		1,100 00
CC151	Mud Flush	Gal	11000		1,500 00
C7041	Claymax KCL Substitute	Gal	5		175 00
E100	Unit + mileage Chgs. - pickups, small USGA CCIS 0.00	m.	40		180 00
E101	Heavy Equipment + Mileage	m.	80		600 00
E113	Proppant + gas Bulk Delivery Chgs. Per ton mile	Ton	420		4,050 00

CHEMICAL / ACID DATA:			

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

SERVICE REPRESENTATIVE: 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>Hercules Leach</i>	Lease No.	Date <i>6/18/2018</i>
Lease <i>L.1 SPICER</i>	Well # <i>1-16</i>	
Field Order # <i>16384</i>	Station <i>Prattville</i>	Casing <i>5 1/2</i>
Type Job <i>242/5 1/2 Lanes</i>	Formation <i>TD-4820</i>	Depth <i>4820</i>
		County <i>K.C.W.S</i>
		State <i>KS</i>
		Legal Description <i>16-27-18w</i>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
<i>5 1/2</i>								
Depth <i>4226</i>	Depth	From	To	Pre Pad	Max		5 Min.	
Volume <i>119.8</i>	Volume	From	To	Pad	Min		10 Min.	
Max Press <i>1500</i>	Max Press	From	To	Frac	Avg...		15 Min.	
Well Connection	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Plug Depth <i>4808</i>	Packer Depth	From	To	Flush <i>KCL Water</i>	Gas Volume		Total Load	

Customer Representative <i>Geoise Reno</i>	Station Manager <i>Justin Wesserman</i>	Treater <i>Darin Franklin</i>
--	---	-------------------------------

Service Units	<i>92911</i>	<i>84981</i>	<i>19843</i>	<i>19960</i>	<i>19860</i>				
Driver Names	<i>Drew</i>	<i>Ed</i>	<i>Ed</i>	<i>Drew</i>	<i>Drew</i>				

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>10:00am</i>					<i>on location / 59/100 meters</i>
					<i>J-1, 3, 9, 13, 17, 21, 25, 29, 33 B-15</i>
					<i>200SK 50/50 Poz, 5% gum, 6.25 bbls Cellulose</i>
					<i>0.5% Fine Loss, 5% KCL, 6 pos Gilsen for</i>
					<i>14.00 ps, 1.36 yd. in, 5.42 water</i>
					<i>50SK 60/40 Poz, 4% 6-1</i>
					<i>13.78 pos, 1.43 yd. in, 6.92 water</i>
<i>2:45pm</i>	<i>200</i>		<i>3</i>	<i>5</i>	<i>Pump 3 bbls water</i>
	<i>200</i>		<i>24</i>	<i>5</i>	<i>24 bbls flush</i>
	<i>200</i>		<i>3</i>	<i>5</i>	<i>3 bbls water</i>
	<i>200</i>		<i>48</i>	<i>5</i>	<i>mix 200SK cement</i>
					<i>Shut down</i>
					<i>Wash pump &amp; line &amp; Release Plug</i>
	<i>100</i>		<i>0</i>	<i>6</i>	<i>Start displacement</i>
	<i>500</i>		<i>90</i>	<i>6</i>	<i>L.P. Pressure</i>
	<i>600</i>		<i>104</i>	<i>3</i>	<i>Slow psie</i>
	<i>1500</i>		<i>110</i>	<i>3</i>	<i>Bump Plus</i>
					<i>Float - Here</i>
	<i>50</i>		<i>7</i>	<i>3</i>	<i>Plus Reg here - 30SK</i>
	<i>50</i>		<i>5</i>	<i>3</i>	<i>Plus main hole - 20SK</i>
					<i>Job complete / Darin &amp; crew</i>