





1171264

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

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

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

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

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

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

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

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

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

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

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

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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# LITHOLOGY STRIP LOG

## WellSight Systems

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

Well Name: Theda Rose "A" #1-13  
Location: 160' FNL & 1875' FWL, Sec. 13-T27S-R20W, Kiowa Co., KS.  
Licence Number: 15-097-21777-0000 Region: Wildcat  
Spud Date: 11/22/2013 Drilling Completed: 12/1/2013  
Surface Coordinates: 160' FNL & 1875' FWL, Sec. 13-T27S-R20W

Bottom Hole Same as Above  
Coordinates:  
Ground Elevation (ft): 2263' K.B. Elevation (ft): 2274'  
Logged Interval (ft): 3350' To: 4923' Total Depth (ft): 4923'  
Formation: Mississippian at Total Depth  
Type of Drilling Fluid: Freshwater/Gel to 3038'; Chemical Gel 3038' to 4923'

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

### OPERATOR

Company: Strata Exploration, Inc.  
Address: P.O. Box 401  
Fairfield, IL. 62839-0401

### 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(Lansing 'A') 4213' - 4229'(Corrected Depth to Log) Test Times 15"-45"-30"-60" IFP Weak Blow built to 1.5", FFP Weak Surface Blow throughout, no Blowback on SI's; REC: 15' Watery Mud(20%W, 80%M), no Shows of oil or gas, CI 76,000, Mud 4000; IFP 15-20#, ISIP 1336#, FFP 25-33#, FSIP 1341#, IHP 2009#, FHP 1855#, BHT 112 Deg. F.

DST #2(Lansing "B") 4237' - 4256'(Corrected Depths to Log) Test Times 15"-45"-45"-90" IFP Weak Blow built to 5", FFP Fair to Good 8" Blow, no Blowback on SI's; REC: 275' Gsy SOCMW(3%G, Trc O, 70%W, 27%M) CI 82,000, Mud 4600; IFP 16-66#, ISIP 1443#, FFP 70-153#, FSIP 1438#, IHP 2065#, FHP 2035#, BHT 115 Deg. F.

DST #3(Cherokee/Miss.) 4774' - 4857'(Corrected Depths to Log) Test Times 15"-45"-30"-60" IFP Weak 0.5" Blow, FFP No Blow, no Blowback on SI's; REC: 20' SOCM(2%O, 98%M), no Water; IFP 19-22#, ISIP 181#, FFP 24-25#, FSIP 92#, IHP 2391#, FHP 2224#, BHT 118 Deg. F.

## Comments

11/21/13 MIRU Sterling Drilling Rig #2; 11/22/13 Spud at 1:45 AM., Drilling at 410'; 11/23/13 TD. 606' - Nipple up BOB; 11/24/13 Drilling at 1740'; 11/25/13 Drilling at 2830'; 11/26/13 Drilling at 3497'; 11/27/13 Drilling at 4072'; 11/28/13 TD. 4225' - DST #1; 11/29/30 Drilling at 4260'; 11/30/13 Drilling at 4646'; 12/1/13 TD. 4853' - TIH for DST #3, Reached TD. of 4923' at 8:55 PM; 12/2/13 RTD. 4923', LTD. 4920' - P & A.

Set new 8 5/8"(24#) Surface Casing at 601' with 350 sacks cement(Basic Energy Services). Cement did not Circulate. PD. 9:15 PM. 11/23/13. Use 75 Sx. through 1" to fill cement to cellar.

Surveys: 0.75 Deg. at 606'(Surface Casing); 1 Deg. at 4225'(DST #1); 0.5 Deg. at 4853'(DST #3).


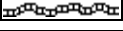
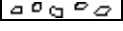

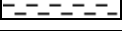







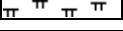

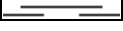
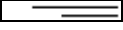
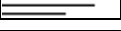

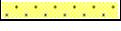

Pipe Strap at 4225'(DST #1): Strap 0.40' Long to the Board, no correction made to the Board.

LOG TOPS: Stotler Lmst. 3424(-1150), Howard 3626(-1352), Queen Hill Shale 3930(-1656), Heebner Shale 4064(-1790), Toronto 4086(-1812), Brown Lmst. 4201(-1927), Lansing 'A' 4210(-1936), Lansing 'B' 4233(-1959), Lansing/KC 'H' 4382(-2108), KC 'I' 4439(-2165), Stark Shale 4531(-2257), Swope 4542(-2268), Hertha 4576(-2302), Base Kansas City 4610(-2336), Marmaton 4652(-2378), Pawnee 4696(-2422), Cherokee Shale 4746(-2472), Miss. Chert 4822(-2548), Miss. Osage Marker 4860(-2586).








































































NOTE: This log was shifted downward by 4' to 5' for correlation purposes with the Halliburton Logs.

After review of the Halliburton Logs, DST data, structural position and lack of commercial amounts of hydrocarbons, the operator elected to Plug and Abandon the Theda Rose 'A' #1-13 at RTD. 4923' on 12/2/13.

## 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  Wackst
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**OTHER SYMBOLS**

- POROSITY**
- E Earthy
  - F Fenest
  - X Fracture
  - Inter
  - Moldic
  - Organic
  - P Pinpoint

V Vuggy

- SORTING**
- W Well
  - M Moderate
  - P Poor

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

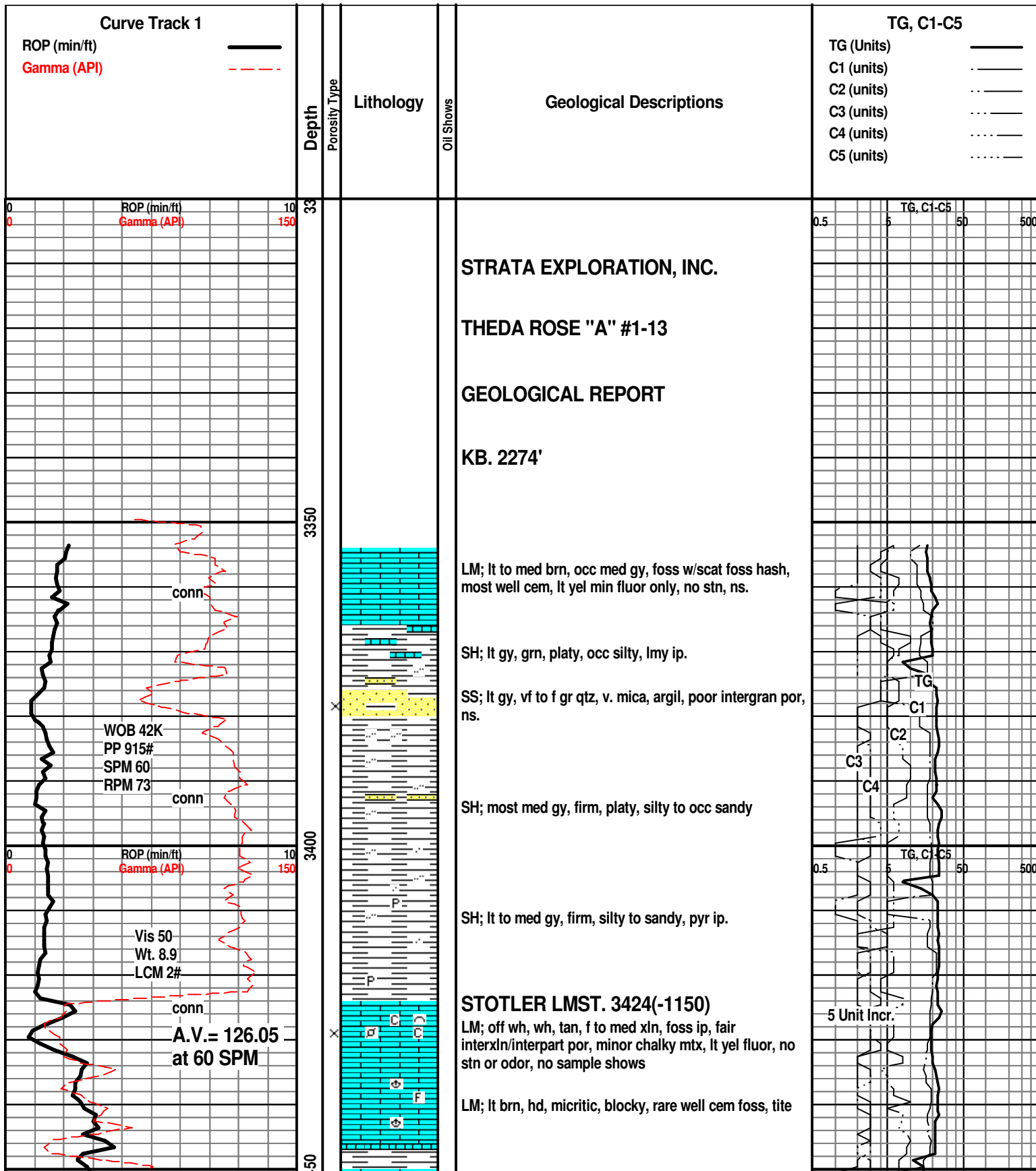
**OIL SHOW**

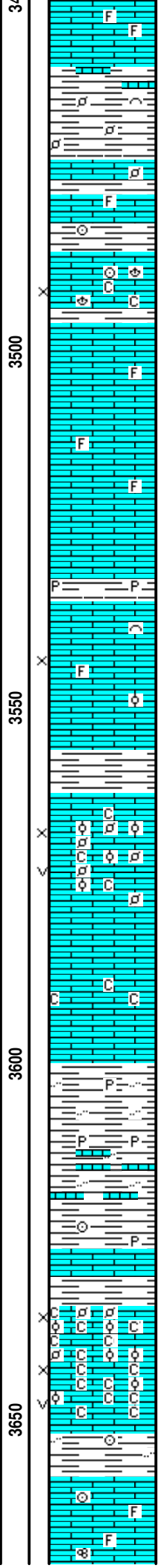
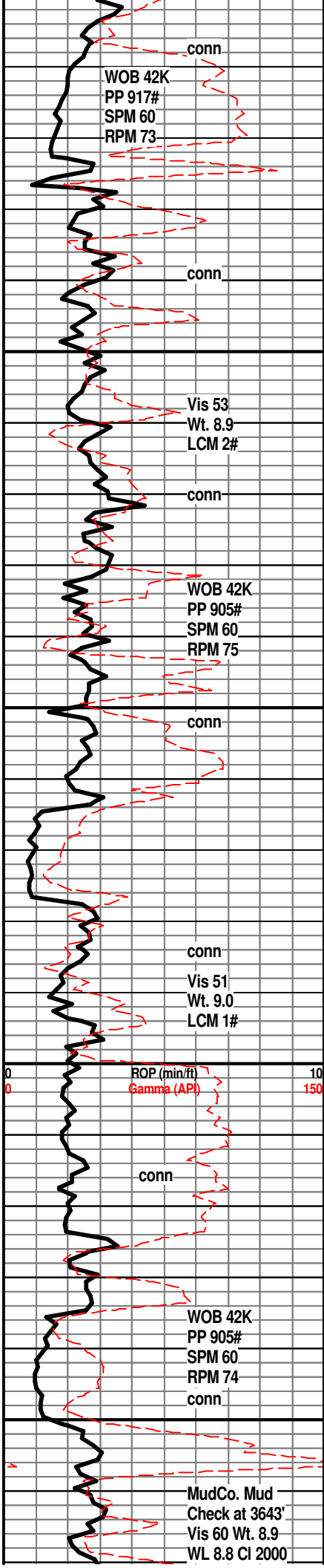
- Even

- Spotted
- Ques
- Dead

- INTERVAL**
- Core
  - Dst

- EVENT**
- Rft
  - Sidewall





LM; off wh, buff, fxln ip, most well cem, scat lt yel min fluor, no vis por, no stn or odor, ns.

SH; grn, gy grn, v. foss ip, scat pellets, interbdd lmy sh

LM; lt brn, tan, dense, rarely foss, no vis por, ns.

LM; tan to cream, buff, foss w/scat crin/bracs, scat poor interpart por - most well cem, minor soft chalky mtx, lt yel min fluor, no stn/odor, ns.

LM; tan to lt brn, buff, foss ip, most dense - blocky, interbdd hd micrite, no vis por, no fluor, ns.

LM; lt gy to lt gy brn, dense, micritic, tite

SH; med to dk gy, platy, occ pyr

LM; lt to med brn, occ med gy, fxln w/rare foss mat, trc poor interpart por, dull yel to no fluor, no stn, ns.

SH; med to dk gy, platy, calc

LM; tan to cream, buff, off wh, foss w/scat pellets and ooids, weakly cem - fair interpart w/scat vug por, some chalky mtx, lt yel min fluor, no stn or odor, no gas kick, barren, ns.

LM; off wh, wh, buff, fxln w/some sucrosic text, fair interxln por, partly chalky, soft ip, dull yel to no fluor, ns.

SH; lt gy, grn, platy to flakey

SH; grn, gy grn, maroon, varic ip, scat silty sh, occ pyr, firm, interbdd hd lmy sh strngs.

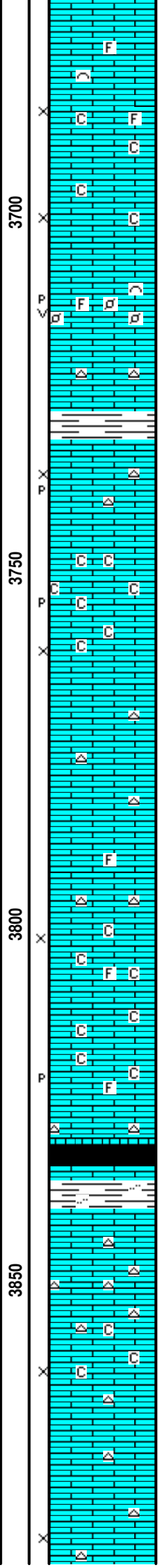
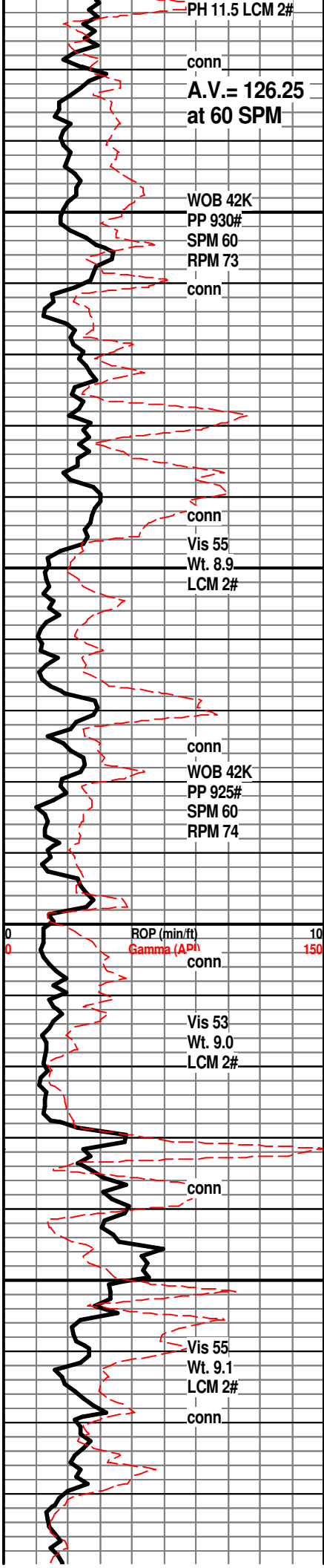
**HOWARD 3626(-1352)**  
LM; med/dk brn, dense, pyr ip.  
LM; lt brn, tan, foss - oolitic/pelletal, well cem at top, bcm oolitic and very chalky - soft, fair interpart por, lt yel min fluor, no stn or odor, no gas kick, barren, ns.

LM; wh, off wh, buff, f to med xln, scat cse spar calc, v. chalky - soft, poor interxln w/scat small vug por, lt yel min fluor, ns.

SH; med gy, silty, foss ip.

LM; tan to buff, cream, f to med xln, scat foss mat, most well cem, no vis por, no fluor, ns.





LM; off wh, wh, buff, fxln, rare poor interxln por, occ chalky mtx, no fluor, ns.

LM; tan to lt brn, buff, foss w/scat pellets and foss hash, fair small p-p and vug por, lt yel min fluor, no stn, no gas kick, ns.

LM; lt brn, tan, dense, scat tan to gy foss/spicular cht, tite

SH; med gy, gy brn, platy, firm

LM; tan to buff, lt brn, fxln w/trc poor interxln/p-p por, dull yel fluor, rare amber to tan cht, dull yel min fluor, no stn, ns.

LM; tan to lt brn, fxln, fair to gd interxln w/scat p-p por, soft ip, abnt chalky mtx, no fluor, no stn or odor, ns.

Gas Test at  
Extractor

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

LM; off wh, buff, cream, f to med xln, some gran text, rarely foss, fair interxln w/rare p-p por, chalky ip, soft, no fluor, no stn or odor, ns.

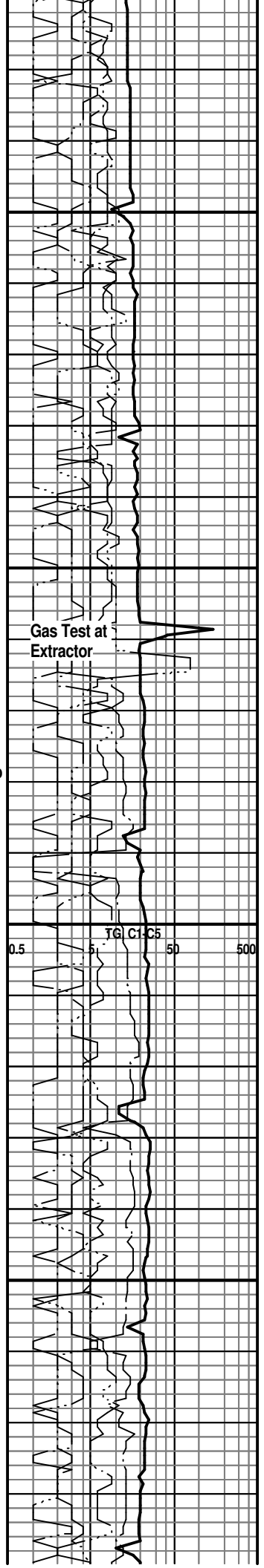
SH; dk gy/blk, fiss

SH; med gy to gy grn, silty ip

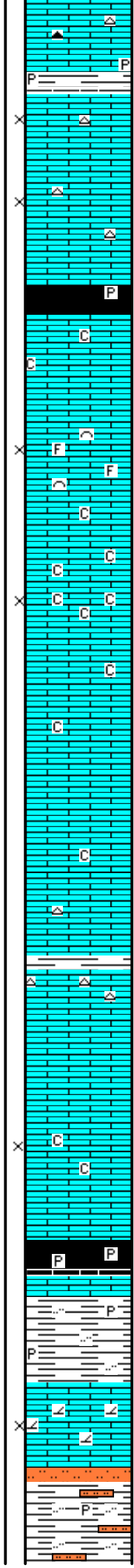
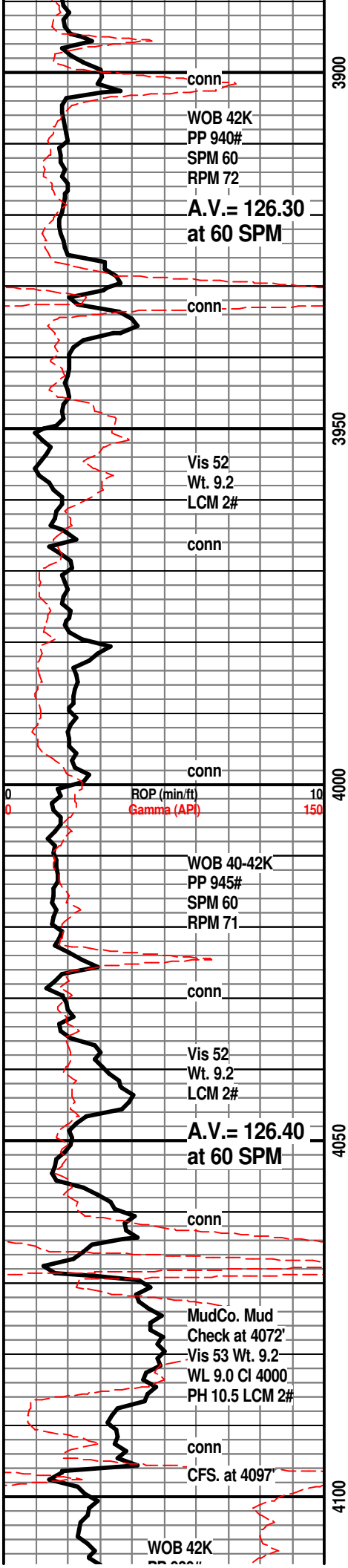
LM; off wh, tan - buff, fxln w/abnt wh fresh cht, dense, blocky ip, lt yel min fluor, ns.

LM; off wh, tan, fxln w/rare gy cht, chalky mtx ip, soft, fair interxln por, no fluor, ns.

LM; off wh, wh, tan, f to med xln, fair interxln por, scat off wh to gy cht, occ spar calc xtals, no fluor, no stn or odor, ns.







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

LM; tan to off wh, buff, f to med xln, poor to fair interxln por, occ chalky, interbdd off wh to wh cht, dull yel min fluor, no stn or odor, no gas kick, ns.

**QUEEN HILL SHALE 3930(-1656)**  
SH; blk, carb ip, platy, rarely pyr  
LM; tan to off wh, buff, fxln w/scat chalky mtx, firm, no vis por, ns.

LM; lt brn, foss w/occ cse xln lmst, fair to gd interxln/interpart por, dull yel min fluor, no stn or odor, ns.

LM; off wh, tan, fxln, poor to fair interxln por, incr. chalky mtx, dull yel fluor, ns.

LM; tan to off wh, lt brn, foss w/scat fxln lmst, incr. in shales w/some varic sh(sloughing), trc blk sh, scat lt yel fluor, no stn or odor, no sample shows

LM; off wh, tan, lt brn, f to med xln, rare cse xln w/spar calc, interbdd wh to off wh cht, dull yel min fluor, no stn or odor, ns.

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

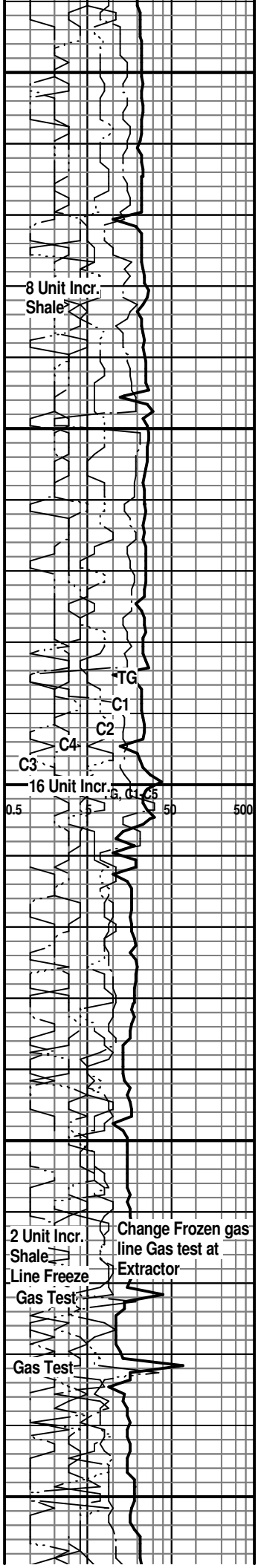
LM; tan to lt brn, f to med xln, scat cse opaque spar calc xtals, fair interxln por, trc soft chalky mtx, lt yel min fluor, no stn, ns.

**HEEBNER SHALE 4064(-1790)**  
SH; blk, carb ip, scat pyr, trc gas  
LM; med to dk brn, dense, hd

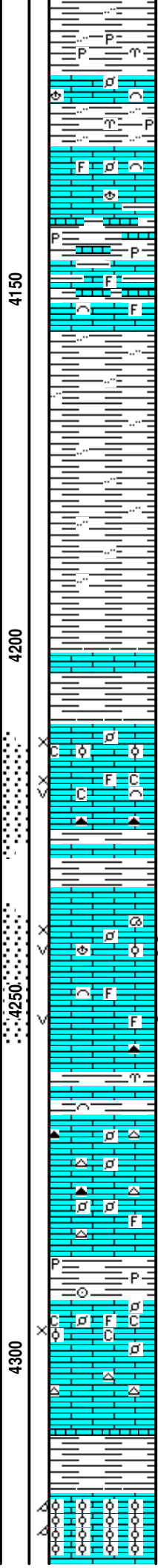
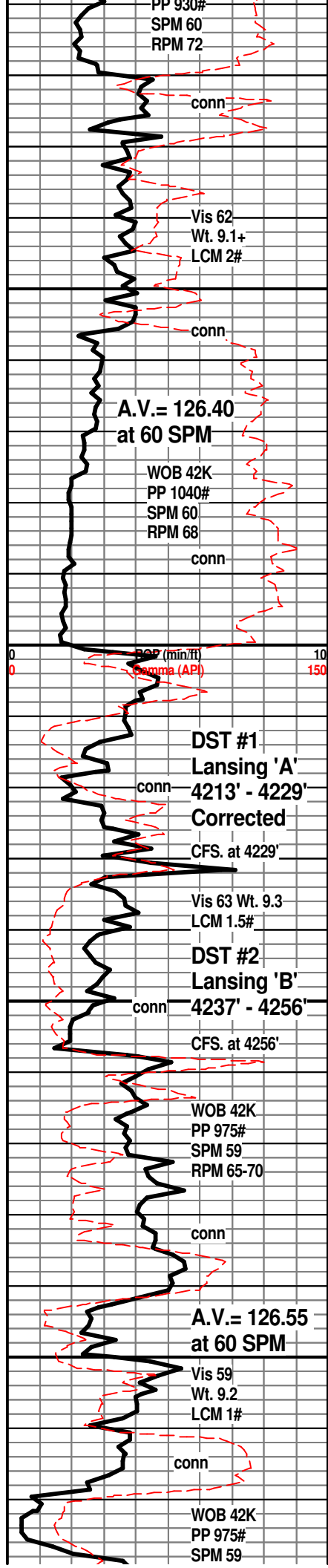
SH; grn, gy grn, firm, rarely silty, occ dissem pyr.

**TORONTO 4086(-1812)**  
LM; off wh, buff, wh, sucrosic text, partly dolomitic, poor interxln por, lt yel fluor, quest. gas bubbles, no stn/odor, no gas kick, looks tite

**DOUGLAS SHALE 4096(-1822)**  
SH; lt gy, silty w/interbdd soft sltst, mica ip,







SH; med gy, firm, silty ip, scat pyr

LM; med/dk brn, blocky, scat well cem foss, tite

SH; lt gy, gy grn, silty, fiss.

LM; med brn, rare gy brn, most micritic, rare foss mat, no vis por, no fluor, ns.

SH; med gy brn, firm, interbdd hd shaly lmst, pyr ip.

LM; med to dk brn, scat cse foss frags, well cem, rare lt yel fluor, no stn, ns.

SH; lt to med gy, fiss, silty ip, some sticky

SH; lt to med gy, fiss, some v. soft - sticky, occ silty

**BROWN LMST. 4201(-1927)**  
LM; med brn, hd, foss ip, well cem, trc pyr

**LANSING 'A' 4210(-1936)**  
LM; off wh, tan, cream, foss w/some ooids, scat wh cht, minor soft chalky mtz, lt yel fluor  
LM; off wh, buff, fxln w/scat foss mat, poor/fair interxln w/trc vug por, partly chalky mtz, lt yel fluor, few gas bubbles, no odor, no vis oil stn, no cut, gas show only

**DST #1: Lansing 'A' 4213' - 4229'**  
**LANSING 'B' 4233(-1959)**  
LM; off wh, buff, foss ip, scat vug por, sev. pcs. w/spotted w/even stn on few pcs, lt brn stn, faint to fair odor, fair vug and interxln por, occ med/brite yel fluor, gd cut, trc gas bubbles  
LM; tan to lt gy brn, foss w/scat spar calc xtals, minor chalky mtz, trc spotted lt brn oil stn, no odor, fair vug por, dull/lt yel fluor  
**DST #2: Lansing 'B' 4237' - 4256'**  
**Corrected Depths to Log**  
SH; med gy, grn, platy, occ foss.  
LM; med brn, some mottled text, occ foss w/scat pellets and hash, well cem, cherty ip, no vis por, no fluor, ns.

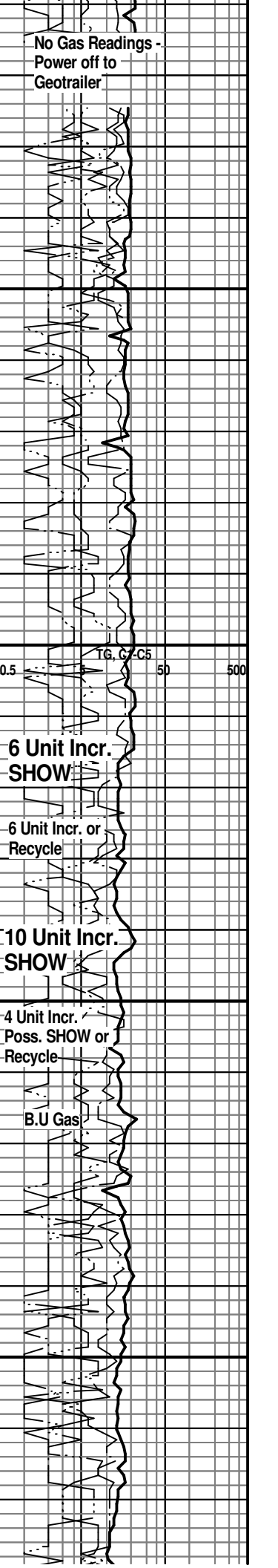
LM; tan to lt brn, dense, most micritic, blocky, occ cherty, tite

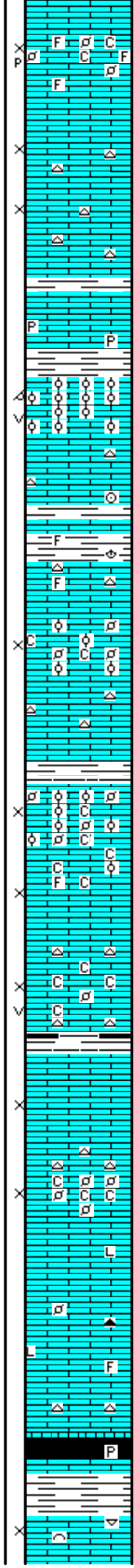
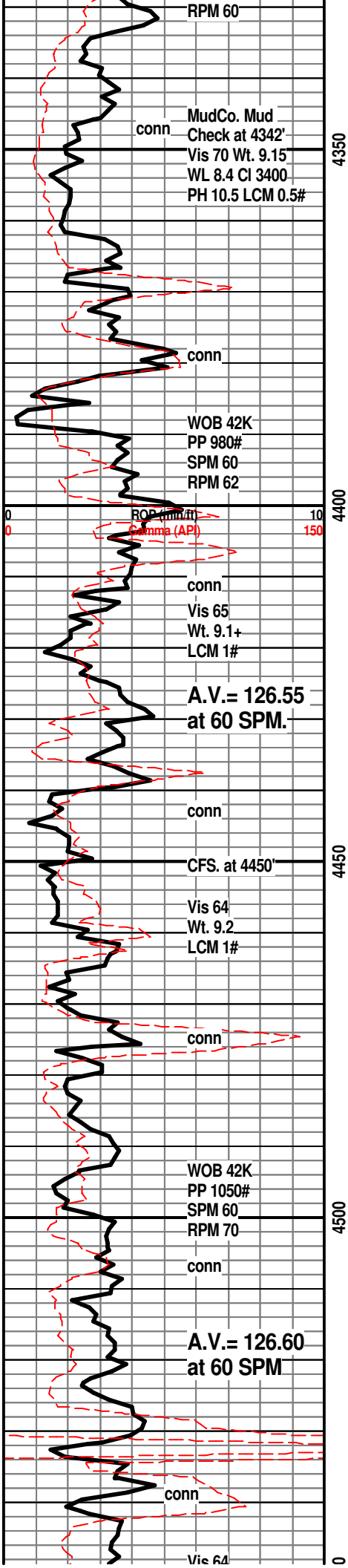
SH; grn, gy grn, platy, occ pyr

**LANSING 'E' ZONE 4292(-2018)**  
LM; off wh, buff, tan, fxln w/scat foss mat, occ finely pelletal, poor interpart por, chalky mtz, lt yel min fluor, no stn or odor, no gas kick

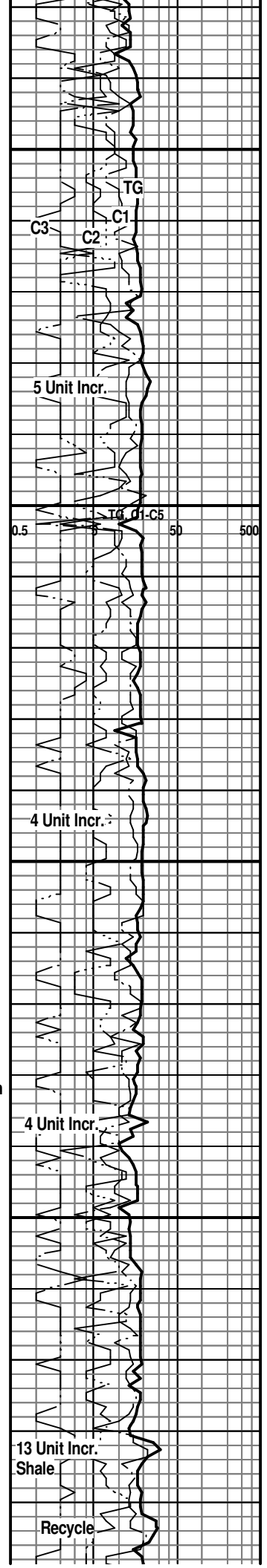
SH; med gy, grn, fiss

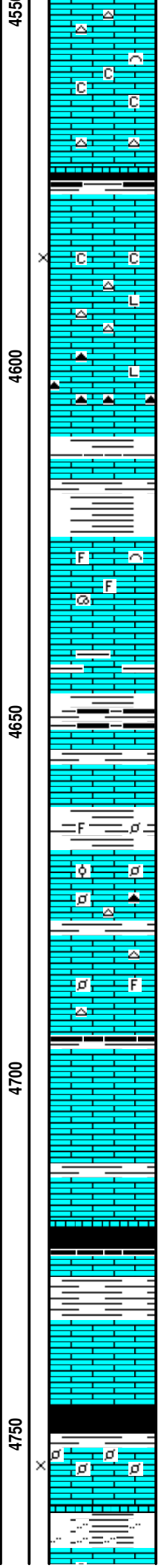
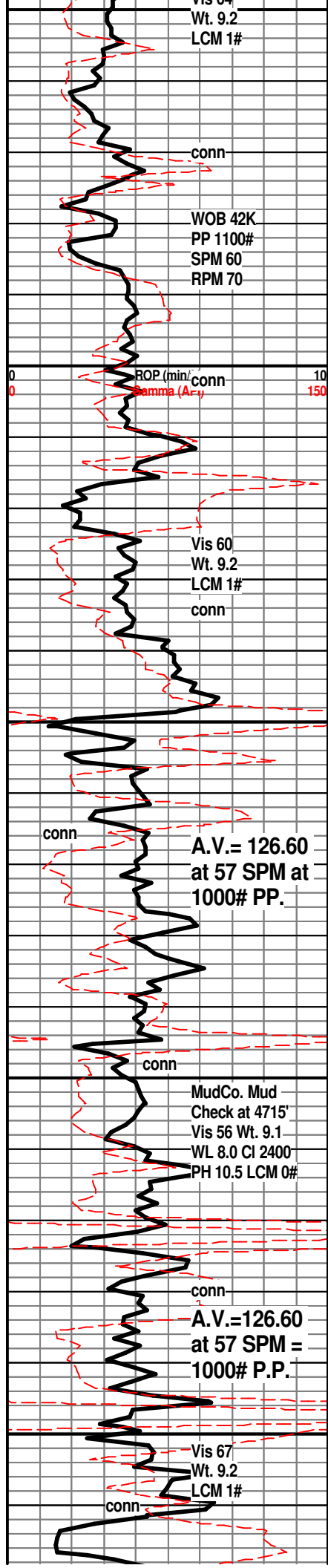
**LANSING 'G' PORO. 4319(-2045)**  
LM; lt to med brn, oolitic, med to occ lrg molds, v. gd oomoldic por, brittle ip, some rextalized, dull yel fluor, no stn or odor, no gas kick





LM; tan to lt brn, foss ip, scat small pellets w/poor p-p/interpart por, minor chalky mtx, no fluor, ns.  
 LM; tan to buff, f to med xln w/scat cse spar calc xtals, poor to fair interxln por, dull to occ lt yel min fluor, no stn or odor, no gas kick, scat off wh to wh cht  
 LM; med to dk brn, foss ip, tite  
 SH; med gy, gy grn, fiss, occ pyr  
**LANSING/K.C. 'H' 4382(-2108)**  
 LM; lt brn, tan, oolitic, med size molds, v. gd oomoldic w/scat vug por, lt/med yel min fluor only, brittle ip, no vis stn, no odor, no sample shows  
 LM; tan to cream, buff, fxln to micritic, scat tan cht, no vis por, ns.  
 SH; grn, gy grn, fiss, occ foss  
 LM; tan to buff, lt brn, dense, scat off wh cht, rare well cem foss, tite  
 LM; tan to cream, buff, foss w/scat ooids and pellets/hash, fair interpart por, minor chalky mtx, dull yel fluor, no vis oil stn, no gas kick, ns.  
**KANSAS CITY 'I' 4439(-2165)**  
 LM; lt brn, oolitic/pelletal, trc poor interpart por - most well cem, spotted med yel min fluor, no stn or odor, ns.  
 LM; tan to off wh, wh, foss w/scat ooids/pellets, fair interpart por, occ soft chalk and chalky mtx, rare lt yel min fluor, no stn/odor, no sample shows  
 LM; off wh, buff, fxln w/occ foss mat, much soft chalky mtx, no fluor, fair to poor interxln por, no stn, ns.  
 SH; dk gy, trc blk, platy  
**KANSAS CITY 'J' 4477(-2203)**  
 LM; tan to cream, buff, med xln to gran text, fair interxln w/occ vug por, dull yel to no fluor, scat cse spar calc xtals, scat lt gy cht, no stn, no gas kick  
 LM; tan to buff, off wh, fxln w/scat foss mat. occ small pellets, interbdd soft chalky mtx, dull yel min fluor, no stn or odor, ns.  
 LM; tan to lt brn, rarely foss, most dense - some litho, scat tan/rare amber cht, tite  
**STARK SHALE 4531(-2257)**  
 SH; blk, carb ip, trc gas, rare pyr  
**SWOPE 4542(-2268)**  
 LM; tan to lt gy brn, foss ip, well cem, trc poor interpart





por, no fluor, no stn, ns.

LM; tan to lt brn, buff, most dense, micritic, scat gy to tan foss cht, occ off wh chalky lmst interbdd, no fluor, no stn or odor, ns.

SH; dy gy, some blk, platy, carb ip.  
**HERTHA 4576(-2302)**  
LM; off wh, tan, f to med xln, poor to fair interxln por, minor chalky mtz, no fluor, no stn or odor, ns.

LM; tan to lt brn, rare med brn, dense, scat gy to brn cht, hd, litho ip, ns.

LM; med to dk brn, hd, scat smoky/brn cht, litho, dense

**BASE KANSAS CITY 4610(-2336)**  
SH; grn, gy grn, some varic, platy, interbdd brn shaly lmst.

**PLEASANTON 4624(-2350)**  
LM; tan to lt brn, foss ip, well cem, no vis por, no fluor, ns.

LM; lt brn, gy brn, some argil, hd, blocky, no vis por, ns.

SH; grn, gy, blk, rust red, platy, occ foss

**MARMATON 4652(-2378)**  
LM; lt brn, buff, rare pale grn tint(argil), dense, no vis por, no fluor, ns.

SH; med gy, gy grn, some varic, foss ip.

LM; tan to lt brn, occ foss w/small pellets/ooids, well cem, no vis por, scat amber to tan cht, no stn or odor, no sample shows

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

SH; med gy, trc blk, occ pyr

**PAWNEE 4696(-2422)**  
LM; tan to cream, foss(corals), most well cem, occ cse spar calc xtals, v. dull yel to no fluor, no stn, no gas kick, ns.

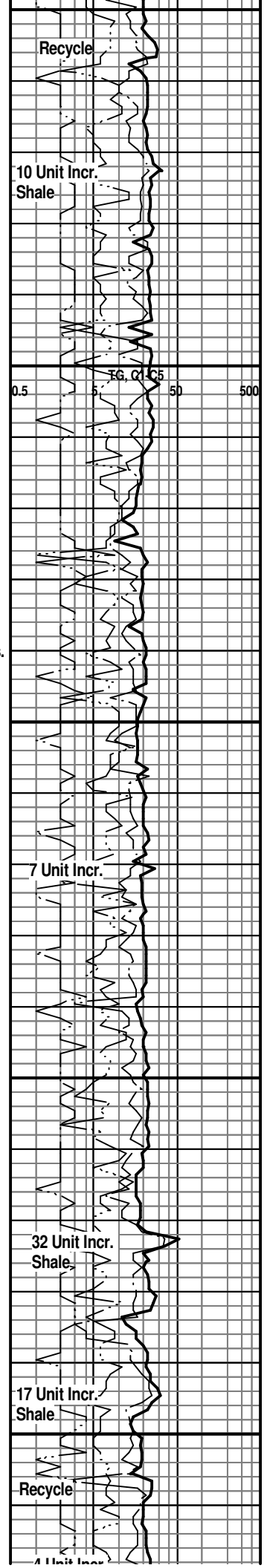
LM; tan to lt gy brn, dense, blocky, no vis por, ns.

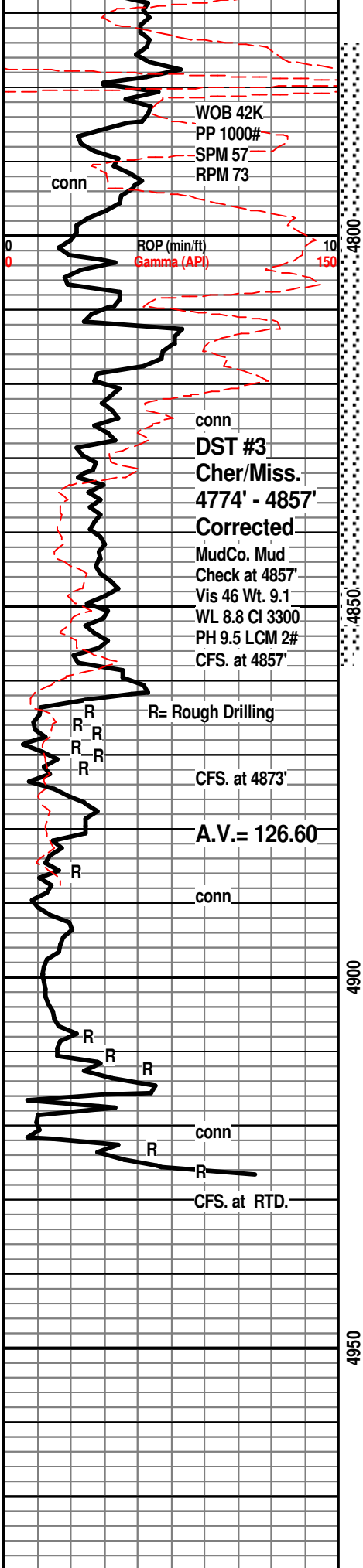
**LABETTE SHALE 4721(-2447)**  
SH; blk, carb, blocky, gassy ip.

SH; grn, gy grn, fiss

LM; tan to buff, fxln w/cse spar calc xtals, lt yel min fluor, no vis por, no stn, ns.

**CHEROKEE SHALE 4746(-2472)**  
SH; dk gy - blk, carb ip, platy  
LM; lt to med brn, most dense, interbdd compact pelletal lmst, trc interpart por, dull/lt yel fluor, no vis stn, no odor, no gas kick  
SH; varic, much rust red, soft, occ silty





WOB 42K  
PP 1000#  
SPM 57  
RPM 73

ROP (min/ft)  
Gamma (API)

conn  
**DST #3**  
**Cher/Miss.**  
**4774' - 4857'**  
**Corrected**  
MudCo. Mud  
Check at 4857'  
Vis 46 Wt. 9.1  
WL 8.8 CI 3300  
PH 9.5 LCM 2#  
CFS. at 4857'

R= Rough Drilling

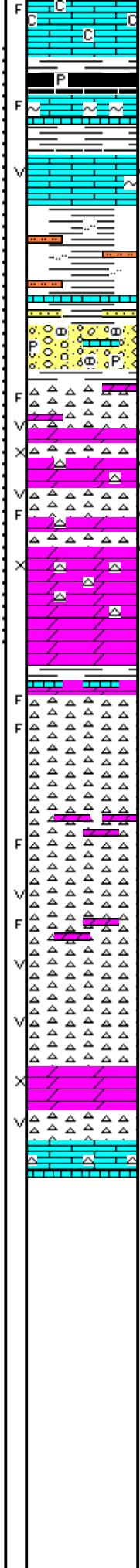
CFS. at 4873'

A.V.= 126.60

conn

conn

CFS. at RTD.



LM; off wh, wh, buff, fxln w/occ soft chalky mtx, tew fracs, most dense, trc lt yel fluor, no vis stn/odor, no shows of gas  
SH; dk gy, blk, pyr ip, fiss  
LM; lt gy, lt brn, fxln w/grn clay(glau) incl, trc fracs, trc blk tar/dead oil, no odor, no live show  
LM; lt brn, med xln, scat calc. xtals w/med/dk brn oil stn, occ vug por, lt yel fluor, instant milky cut, no odor

**BASE CHEROKEE LMST. 4796(-2522)**  
SH; varic, pred grn, gy, maroon, platy, trc soft sltst.

CONGL; weath nodular grn lmst, scat vf/f gr qtz argil ss, much sh, pyr ip, no stn or odor

**MISSISSIPPI CHERT 4822(-2548)**  
CHT; wh, lt gy, opaque, pale yel, fresh, occ dk specks, no vis stn, some grainy dolo.  
CHTY DOL; pale grn, off wh, grainy dolo w/fresh cht, weathered edges on chert w/scat vug por, scat live oil stn, gd odor, spotted/occ even med brn stn, fracs, occ cse qtz xtals w/live brn oil stn, med/brite yel fluor, gd cut  
DOL; wh, sucrosic, poor to fair interxln por, lt to med yel fluor, occ oil stn, some barren, fair odor  
CHTY DOL; off wh, wh, sucrosic, v. rare med brn stn, fair/gd odor, med yel fluor

**DST #3: Cher/Miss. 4774' - 4857'**  
**MISS. OSAGE MARKER 4860(-2586)**  
CHT; wh, lt gy, most fresh, rare weathered edges, fracs evident, rare lrg vug por, dull yel to no fluor, no vis oil stn, very faint odor, no cut, no vis oil stn, some lt brn sucrosic dolo w/med yel min fluor

CHT; wh, fresh, interbdd lt brn gritty dolomitic cht, some v. hd, scat fracs, no fluor, no stn, no gas kick, ns.

CHT; wh, lt gy, partly dolomitic, scat cse qtz xtals, occ fracs w/rare vug por, no fluor, ns.

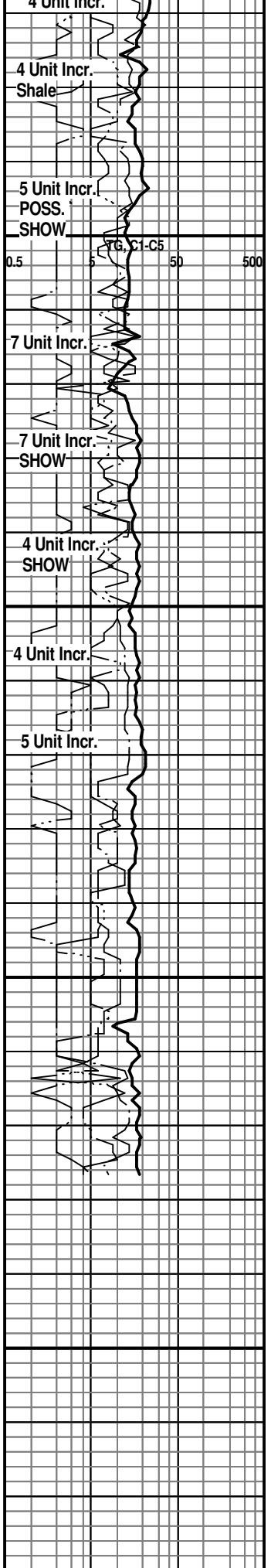
DOL; tan, buff, sucrosic, fair interxln por, med yel min fluor, no vis stn, no odor, no gas kick  
CHT; wh, lt gy, fresh, occ vug por, ns.  
LM; tan, dense, cherty ip, tite

**RTD. 4923' at 8:55 PM. 12/1/13**

**LTD. 4920'**

**Halliburton "Triple Combo" ACRT, NEU/DEN w/PE, Microlog**

**NOTE: This log was shifted downward by 4' to 5' for correlation purposes with the Halliburton Logs.**





PREPAY



PAGE 1 of 1	CUST NO 1004072	INVOICE DATE 11/26/2013
INVOICE NUMBER <b>1718 - 91348093</b>		

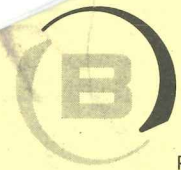
Pratt (620) 672-1201  
 B STRATA EXPLORATION  
 I PO Box: 401  
 L FAIRFIELD  
 L IL US 62837  
 T  
 O ATTN: ACCOUNTS PAYABLE

J LEASE NAME Theda Rose A 1-13  
 O LOCATION  
 B COUNTY Kiowa  
 S STATE KS  
 I JOB DESCRIPTION Cement-New Well Casing/Pi  
 T  
 E JOB CONTACT

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE	
40666458	27463		Net - 30 days	12/26/2013	
<b>For Service Dates: 11/23/2013 to 11/23/2013</b>					
0040666458					
171809538A Cement-New Well Casing/Pi 11/23/2013 Cement 8 5/8" Surface					
A-Con Blend Common		175.00	EA	13.50	2,362.57 T
Common Cement		250.00	EA	12.00	3,000.09 T
Celloflake		88.00	EA	2.78	244.21 T
Calcium Chloride		951.00	EA	0.79	748.93 T
"Top Rubber Cmt Plug, 8 5/8""		1.00	EA	168.75	168.75
"8 5/8"" Guide Shoe (Red)"		1.00	EA	412.51	412.51
"Baffle Plate Alum., 8 5/8"" (Blue)"		1.00	EA	127.50	127.50
"8 5/8"" Basket (Blue)"		1.00	EA	236.26	236.26
"Unit Mileage Chg (PU, cars one way)"		45.00	MI	3.19	143.44
Heavy Equipment Mileage		90.00	MI	5.25	472.51
"Proppant & Bulk Del. Chgs., per ton mil		884.00	EA	1.20	1,060.83
Depth Charge; 501'-1000'		1.00	EA	900.03	900.03
Blending & Mixing Service Charge		425.00	BAG	1.05	446.26
Plug Container Util. Chg.		1.00	EA	187.51	187.51
"Service Supervisor, first 8 hrs on loc.		1.00	EA	131.25	131.25

QTY	U of M	UNIT PRICE	INVOICE AMOUNT
18005			
LEASE		LEV 5 P/P 12/5	
12/3 THEDA ROSE A	1-13		
DES		A/P 12/10	
CEMENT SURE CASING 14 Hrs			
DRL COM LOE G/L		D/D	
X		71730 / 11097.09	

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	10,642.65
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	454.44
PO BOX 841903	801 CHERRY ST, STE 2100	INVOICE TOTAL	11,097.09
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 09538 A

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

DATE OF JOB 11-23-13	DISTRICT PRATT KC	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 STRATA-EXPLORATION		LEASE The A Rose A 1-13		WELL NO.					
ADDRESS		COUNTY KIDWA		STATE KS					
CITY		STATE		SERVICE CREW Sullivan, Anthony, Rye, Kevin					
AUTHORIZED BY		JOB TYPE: CNW 8 5/8 Surface							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME
22463	1.0						11-23-13	PM	3:00
19960-21010	1.0					ARRIVED AT JOB		PM	5:00
37900						START OPERATION		AM	8:30
						FINISH OPERATION	11-23-13	AM	1:50
						RELEASED	11-23-13	AM	2:30
						MILES FROM STATION TO WELL			45

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 101	A-CO2-BLEND cement	SK	175		3,150.00
CP 100-C	Common cement	SK	175		2,800.00
CP 100-c	Common cement	SK	75		1,200.00
CC 102	Coll/Ake	lb	88		325.60
CC 109	Calcium chloride	lb	951		998.55
CF 105	TOP Rubber Plug 8 5/8	SA	1		225.00
CF 203	Slide Shoe	SA	1		550.00
CF 753	Baffle Plate	SA	1		170.00
CF 1903	BASKET	SA	1		315.00
E 100	Pickup mp	md	45		191.25
E 101	Wedge spot	md	90		630.00
E 113	Bulk Adhes	TRV	389		1414.80
CE 201	Depth chafe 500-1000'	SA	1		1,200.00
CE 240	Blend Dry mix	SK	425		595.00
CE 504	Plug Control Portal	SA	1		250.00
5003	Serum Separator	SA	1		175.00
SUB TOTAL					10642.65

CHEMICAL / ACID DATA:			

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

SERVICE REPRESENTATIVE: Robert Sullivan  
THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: \_\_\_\_\_  
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

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



Customer <i>STRATA EXPLORATION</i>		Lease No.		Date <i>11-23-13</i>	
Lease <i>Theba Rose A</i>		Well # <i>1-13</i>			
Field Order # <i>9538</i>	Station <i>PRATT KS</i>	Casing <i>8 5/8</i>	Depth <i>606</i>	County <i>KIOWA</i>	State <i>KS</i>
Type Job <i>CONV 8 5/8 Surface</i>			Formation	Legal Description <i>13-27-20</i>	

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
<i>8 5/8</i>							Max	5 Min.
Depth <i>606</i>	Depth	From	To	Pre Pad	Min		10 Min.	
Volume <i>36</i>	Volume	From	To	Pad	Avg		15 Min.	
Max Press <i>300</i>	Max Press	From	To	Frac	HHP Used		Annulus Pressure	
Well Connection <i>1-2</i>	Annulus Vol.	From	To		Gas Volume		Total Load	
Plug Depth <i>503</i>	Packer Depth	From	To	Flush				

Customer Representative			Station Manager <i>DAVE SCOTT</i>			Treater <i>Robert Sullivan</i>		
Service Units	<i>37900</i>	<i>27463</i>	<i>19960</i>	<i>21010</i>	<i>19960</i>	<i>21010</i>		
Driver Names	<i>Sullivan</i>	<i>Anthony</i>	<i>Phye</i>		<i>Kueman</i>			

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>5:00</i>					<i>on loc safety meeting</i>
					<i>Run 14 JTS 8 5/8 csg.</i>
<i>8:05</i>					<i>CASING ON BOTTOM</i>
<i>8:15</i>					<i>Hook Rig To circ csg.</i>
<i>8:30</i>			<i>3</i>	<i>3</i>	<i>AT SPACER</i>
			<i>77</i>	<i>4.5</i>	<i>Mix A-Low - Blend out 175 gal 3%acc 1/4CF</i>
			<i>37</i>		<i>Mix Tail out 175 com 2%acc 1/4CF</i>
					<i>cont mixed shut down</i>
					<i>Release Plug</i>
				<i>4.5</i>	<i>At Disp</i>
<i>9:10</i>	<i>400</i>		<i>36</i>		<i>plug down</i>
					<i>DID NOT circ out ONE JACK TAP</i>
					<i>Run 2 JTS 1"</i>
<i>1:30</i>					<i>At mixing out</i>
<i>1:50</i>					<i>cont circulation 75 gal 2%acc</i>
					<i>30B Complete</i>
					<i>THANK YOU</i>





PAGE 1 of 1	CUST NO 1004072	INVOICE DATE 12/04/2013
INVOICE NUMBER <b>1718 - 91353268</b>		

Pratt (620) 672-1201  
 B STRATA EXPLORATION  
 I PO Box: 401  
 L FAIRFIELD  
 L IL US 62837  
 T  
 O ATTN: ACCOUNTS PAYABLE

J LEASE NAME Theda Rose A 1-13  
 O LOCATION  
 B COUNTY Kiowa  
 S STATE KS  
 I JOB DESCRIPTION Cement-New Well Casing/Pi  
 T  
 E JOB CONTACT

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
40668551	19843		Net - 30 days	01/03/2014

**For Service Dates: 12/02/2013 to 12/02/2013**

0040668551

171809557A Cement-New Well Casing/Pi 12/02/2013  
 Cement P.T.A.

LEASE 12/5	LEV 5	P/P 12/5
DES PLUG NEW WELL	A/P 12/10	
DRL X	COM	D/D
71890/4146 09		

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
60/40 POZ	170.00	EA	9.00	1,529.88 T
Cement Gel	294.00	EA	0.19	55.12 T
"Unit Mileage Chg (PU, cars one way)"	45.00	MI	3.19	143.43
Heavy Equipment Mileage	90.00	MI	5.25	472.46
"Proppant & Bulk Del. Chgs., per ton mil	331.00	EA	1.20	397.17
Depth Charge; 1001'-2000'	1.00	EA	1,124.92	1,124.92
Blending & Mixing Service Charge	170.00	BAG	1.05	178.49
"Service Supervisor, first 8 hrs on loc.	1.00	EA	131.24	131.24

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	4,032.71
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	113.33
PO BOX 841903	801 CHERRY ST, STE 2100	INVOICE TOTAL	4,146.04
DALLAS, TX 75284-1903	FORT WORTH, TX 76102		



Customer STATA EXPLORATION INC	Lease No.	Date 12-2-13	
Lease The DA ROSA A	Well # 1-13		
Field Order # 4557	Station Pratt	Casing	Depth 1120
Type Job CAW PTA		Formation	County Kiowa
			State KS
			Legal Description 13-27-20

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
1120				170 gal 60/40 P02	40-50		5 Min.	
Depth 1120	Depth	From	To	Pre Pad	Max		10 Min.	
Volume	Volume	From	To	Pad	Min		15 Min.	
Max Press 300	Max Press	From	To	Frac	Avg		Annulus Pressure	
Well Connection	Annulus Vol.	From	To		HHP Used		Total Load	
Plug Depth 1120	Packer Depth	From	To	Flush	Gas Volume			

Customer Representative SANDRA PAVIC	Station Manager Kevin Goulet	Treater M. Ke Matta
---	---------------------------------	------------------------

Service Units	37580	19584	19573	19831	19862				
Driver Names	Matta	Matta		Pavic					

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
1:30					On Location / Safety Meeting
					1st Plug @ 1120
3:37		200	22	4	Pump 22 BBL H2O
3:45		150	9	4	✓ mix 50 SKS 60/40 P02
3:48		100	8	4	Pump 8 BBL H2O DISC
3:52		100	4	4	Pump 4 BBL MUD
3:55					Pull drill rig
					2nd Plug @ 630
4:15		150	15	5	Pump 15 H2O
4:18		100	7	4	mix 50 SKS conc
4:21		100	5	4	Pump 5 BBL H2O P02
4:23					Pull drill rig
					3rd Plug @ 60'
4:44			10	4	Mix Cement until thickened
5:15			7/4		Plug RAT hole + house hole
					JOB COMPLETE
					THANK YOU
					M. Ke MATTIA



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Strata Expl. Inc.  
P.O. Box 401  
Fairfield, IL 62837-0401  
ATTN: Jon Christensen

**13-27s.-20w. Kiowa Co. Ks**

**Theda Rose A 1-13**

Job Ticket: 51855 **DST#: 1**

Test Start: 2013.11.28 @ 02:43:06

## GENERAL INFORMATION:

Formation: **Lansing A**  
 Deviated: No Whipstock: 0.00 ft (KB)  
 Time Tool Opened: 05:12:36  
 Time Test Ended: 10:03:36  
 Interval: **4209.00 ft (KB) To 4225.00 ft (KB) (TVD)**  
 Total Depth: 4225.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Ryan Reynolds  
 Unit No: 48  
 Reference Elevations: 2274.00 ft (KB)  
 2263.00 ft (CF)  
 KB to GR/CF: 11.00 ft

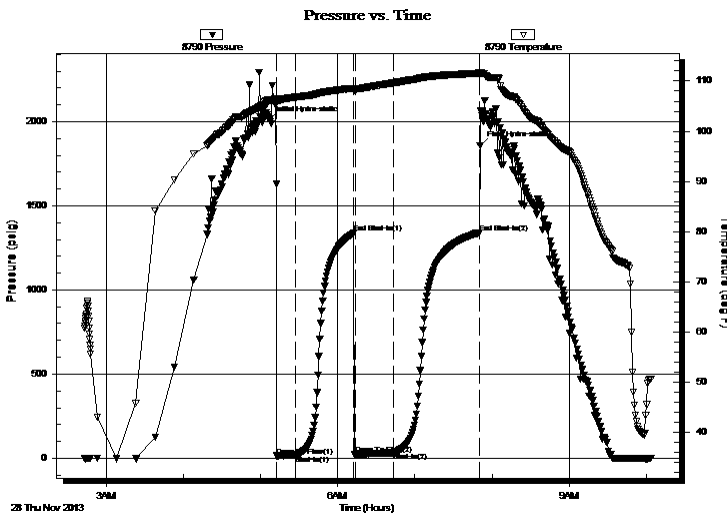
## Serial #: 8790

Inside

Press @ Run Depth: 32.53 psig @ 4210.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2013.11.28 End Date: 2013.11.28 Last Calib.: 2013.11.28  
 Start Time: 02:43:11 End Time: 10:03:35 Time On Btm: 2013.11.28 @ 05:07:06  
 Time Off Btm: 2013.11.28 @ 07:50:36

TEST COMMENT: IF: Weak blow . 1/4" - 1 1/2"  
 IS: No blow  
 FF: Weak surf. blow .  
 FS: No blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2008.49	106.19	Initial Hydro-static
6	14.51	105.85	Open To Flow (1)
21	19.94	106.80	Shut-In(1)
66	1336.49	108.57	End Shut-In(1)
67	24.94	108.30	Open To Flow (2)
97	32.53	109.65	Shut-In(2)
163	1340.64	111.57	End Shut-In(2)
164	1855.34	111.72	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
15.00	WCM 20%w tr, 80% mud	0.07

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Strata Expl. Inc.

**13-27s.-20w. Kiowa Co. Ks**

P.O. Box 401  
Fairfield, IL 62837-0401

**Theda Rose A 1-13**

Job Ticket: 51855      **DST#: 1**

ATTN: Jon Christensen

Test Start: 2013.11.28 @ 02:43:06

## 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:	76000 ppm
Viscosity: 53.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.99 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4000.00 ppm			
Filter Cake: 0.02 inches			

## Recovery Information

Recovery Table

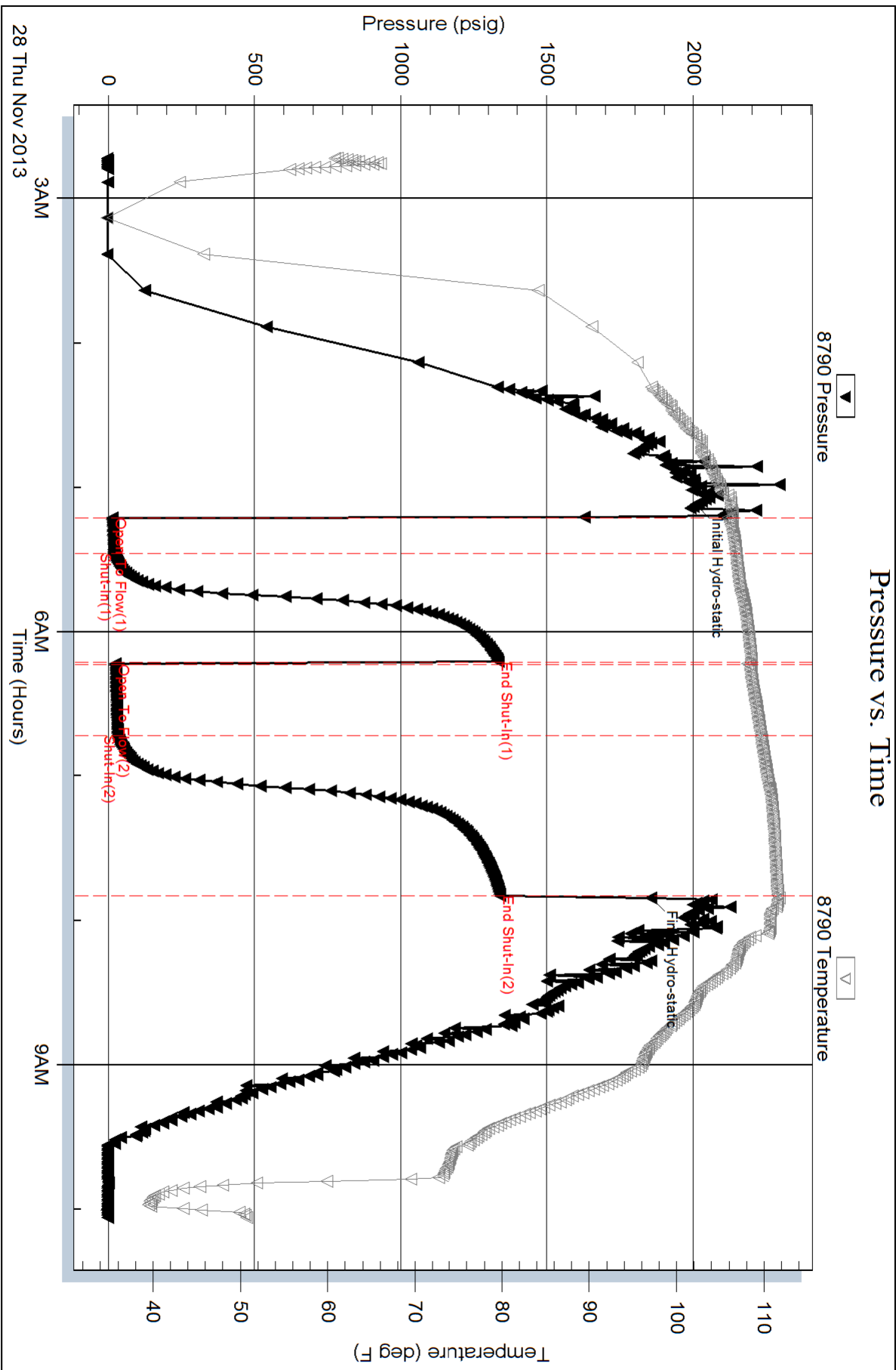
Length ft	Description	Volume bbl
15.00	WCM 20%w tr, 80%mud	0.074

Total Length: 15.00 ft      Total Volume: 0.074 bbl

Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #: none

Laboratory Name:      Laboratory Location:

Recovery Comments:







**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Strata Expl. Inc.  
 P.O. Box 401  
 Fairfield, IL 62837-0401  
 ATTN: Jon Christensen

**13-27s.-20w. Kiowa Co. Ks**  
**Theda Rose A 1-13**  
 Job Ticket: 51856 **DST#: 2**  
 Test Start: 2013.11.28 @ 19:07:09

## GENERAL INFORMATION:

Formation: **Lansing B**  
 Deviated: No Whipstock: 0.00 ft (KB)  
 Time Tool Opened: 21:53:09  
 Time Test Ended: 03:31:54  
 Interval: **4233.00 ft (KB) To 4252.00 ft (KB) (TVD)**  
 Total Depth: 4252.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Ryan Reynolds  
 Unit No: 48  
 Reference Elevations: 2274.00 ft (KB)  
 2263.00 ft (CF)  
 KB to GR/CF: 11.00 ft

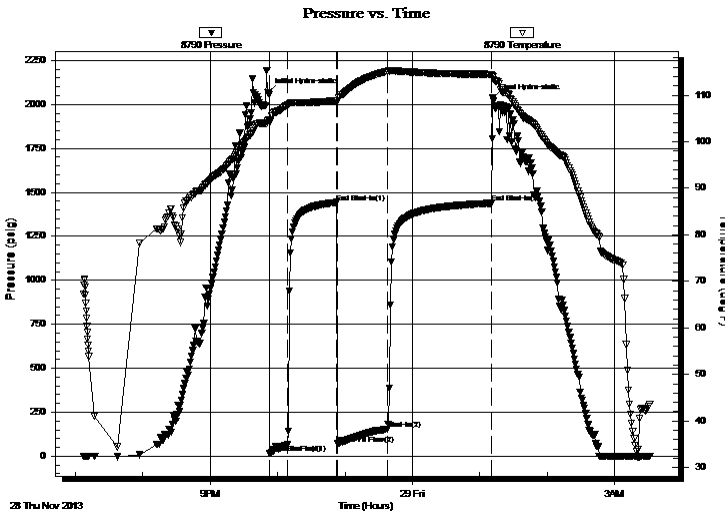
## Serial #: 8790

Inside

Press @ Run Depth: 153.11 psig @ 4234.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2013.11.28 End Date: 2013.11.29 Last Calib.: 2013.11.29  
 Start Time: 19:07:14 End Time: 03:31:53 Time On Btm: 2013.11.28 @ 21:51:24  
 Time Off Btm: 2013.11.29 @ 01:11:39

TEST COMMENT: IF: Fair blow . 1/2" - 5"  
 IS: No blow  
 FF: Good blow . 1/2" - 8"  
 FS: No blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2065.00	104.40	Initial Hydro-static
2	15.80	104.17	Open To Flow (1)
18	66.22	107.81	Shut-In(1)
62	1443.13	108.81	End Shut-In(1)
62	69.88	108.71	Open To Flow (2)
107	153.11	115.05	Shut-In(2)
200	1438.35	114.48	End Shut-In(2)
201	2035.23	113.86	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
275.00	SLI OGCMW trc%oil, 3%gas, 27%mud,	7(1.35 tr

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Strata Expl. Inc.

**13-27s.-20w. Kiowa Co. Ks**

P.O. Box 401  
Fairfield, IL 62837-0401

**Theda Rose A 1-13**

Job Ticket: 51856

**DST#: 2**

ATTN: Jon Christensen

Test Start: 2013.11.28 @ 19:07:09

**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:

82000 ppm

Viscosity: 63.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.19 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4600.00 ppm

Filter Cake: 0.02 inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
275.00	SLI OGCMW trc%oil, 3%gas, 27%mud, 70%w	1.352

Total Length: 275.00 ft

Total Volume: 1.352 bbl

Num Fluid Samples: 0

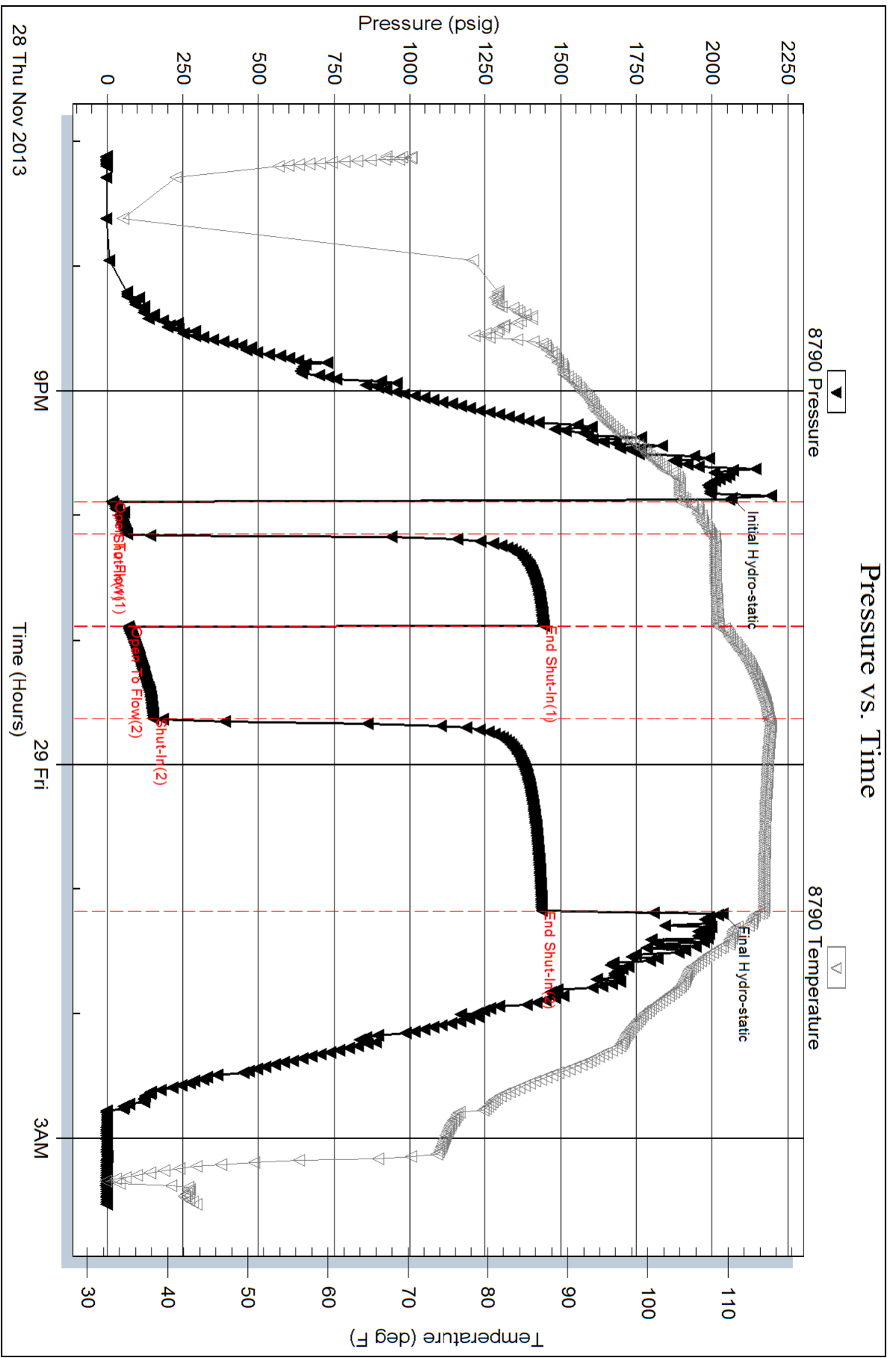
Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Strata Expl. Inc.  
P.O. Box 401  
Fairfield, IL 62837-0401  
ATTN: Jon Christensen

**13-27s.-20w. Kiowa Co. Ks**  
**Theda Rose A 1-13**  
Job Ticket: 51857      **DST#: 3**  
Test Start: 2013.12.01 @ 04:44:06

## GENERAL INFORMATION:

Formation: **Cherokee / Miss.**  
Deviated: No Whipstock: 0.00 ft (KB)  
Time Tool Opened: 07:51:51  
Time Test Ended: 12:45:21  
Interval: **4770.00 ft (KB) To 4853.00 ft (KB) (TVD)**  
Total Depth: 4853.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Ryan Reynolds  
Unit No: 48  
Reference Elevations: 2274.00 ft (KB)  
2263.00 ft (CF)  
KB to GR/CF: 11.00 ft

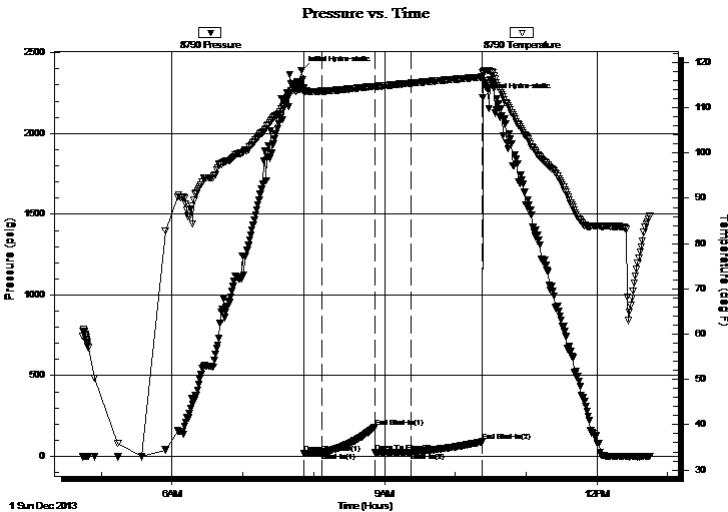
## Serial #: 8790

Inside

Press@RunDepth: 25.48 psig @ 4771.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2013.12.01      End Date: 2013.12.01      Last Calib.: 2013.12.01  
Start Time: 04:44:11      End Time: 12:45:20      Time On Btm: 2013.12.01 @ 07:49:36  
Time Off Btm: 2013.12.01 @ 10:23:06

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

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2390.77	114.03	Initial Hydro-static
3	18.76	113.52	Open To Flow (1)
18	22.08	113.65	Shut-In(1)
62	180.87	114.74	End Shut-In(1)
63	23.82	114.65	Open To Flow (2)
93	25.48	115.43	Shut-In(2)
154	91.56	116.77	End Shut-In(2)
154	2223.87	117.66	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
20.00	OCM 2%oil, 98%mud	0.10

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Strata Expl. Inc.

**13-27s.-20w. Kiowa Co. Ks**

P.O. Box 401  
Fairfield, IL 62837-0401

**Theda Rose A 1-13**

Job Ticket: 51857

**DST#: 3**

ATTN: Jon Christensen

Test Start: 2013.12.01 @ 04:44:06

## 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:

2400 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.99 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2400.00 ppm

Filter Cake: 0.02 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbf
20.00	OCM 2%oil, 98%mud	0.098

Total Length: 20.00 ft      Total Volume: 0.098 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

