



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1183741  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

Form must be Typed  
Form must be Signed  
All blanks must be Filled

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

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

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

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

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

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

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

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

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

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

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

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

Designate Type of Completion:

- New Well       Re-Entry       Workover
- Oil       WSW       SWD       SIOW
- Gas       D&A       ENHR       SIGW
- OG       GSW       Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic       Other (Core, Expl., etc.): \_\_\_\_\_

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

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

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

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

- Deepening       Re-perf.       Conv. to ENHR       Conv. to SWD
- Plug Back       Conv. to GSW       Conv. to Producer
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - \_\_\_\_\_

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

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

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

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

Footages Calculated from Nearest Outside Section Corner:

- NE       NW       SE       SW

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

Datum:  NAD27       NAD83       WGS84

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

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

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

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

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

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

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

Multiple Stage Cementing Collar Used?  Yes  No

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

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

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

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

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

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

Location of fluid disposal if hauled offsite:

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

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

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

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

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

- Confidentiality Requested  
Date: \_\_\_\_\_
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

1183741

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: Zimmerman 'A' #1-13  
Location: 2310' FNL & 2284' FEL, Sec. 13-T27S-R20W, Kiowa Co., KS.  
Licence Number: 15-097-21779-00-00  
Spud Date: 11/29/2013  
Surface Coordinates: 2310' FNL & 2284' FEL, Sec. 13-T27S-R20W  
Region: Wildcat  
Drilling Completed: 12/6/2013

Bottom Hole Same as Above  
Coordinates:  
Ground Elevation (ft): 2268' K.B. Elevation (ft): 2281'  
Logged Interval (ft): 3900' To: 4950' Total Depth (ft): 4950'  
Formation: Mississippian at Total Depth  
Type of Drilling Fluid: Freshwater/Gel to 3296'; Chemical Gel 3296' to 4950'

Printed by MUD.LOG from WellSight Systems 1-800-447-1534 [www.WellSight.com](http://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') 4225' - 4242' Test Times 15"-45"-30"-60" IFP Weak Blow built to 4.5", FFP Weak 1" Blow, no Blowback on SI's; REC: 50' Gas in Pipe, 110' MSW(88%W, 12%M) CI 76,000, Mud 4700; IFP 29-40#, ISIP 1445#, FFP 43-69#, FSIP 1438#, IHP 2110#, FHP 2062#, BHT 112 Deg. F.

DST #2(Cherokee Sand/Miss. Chert) 4786' - 4864' Test Times 15"-45"-30"-60" IFP Weak 1.25" Blow, FFP Weak 2" Blow, no Blowback on SI's; REC: 60' Gas in Pipe, 40' GOCM(4%G, 4%O, 92%M), no Water; IFP 25-34#, ISIP 160#, FFP 33-41#, FSIP 102#, IHP 2410#, FHP 2400#, BHT 112 Deg. F.

## Comments

11/29/13 MIRU Sterling Drilling Rig #5 Spud at 7:15 PM., 11/30/13 Drilling at 560'; 12/1/13 Drilling at 1000'; 12/2/13 Drilling at 2800'; 12/3/13 Drilling at 4015'; 12/4/13 TD. 4242' - TIH after DST #1; 12/5/13 Drilling at 4640'; 12/6/13 TD. 4864' - DST #2, reached Total Depth of 4950' at 5:40 PM.; 12/7/13 RTD. 4950', LTD. 4948', Unfreeze Rig - set Production Casing.

Set new 8 5/8"(23#) Surface Casing at 608' with 370 sacks cement(Basic Energy Services). Cement did Circulate. PD. 1:15 PM. 11/30/13.

Surveys: 1.0 Deg. at 613'(Surface Casing); 0.50 Degree at 3997'(Bit Trip); 1.25 Deg. at 4242'(DST #1); 0.75 Deg. at 4864'(DST #2).


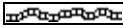
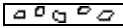










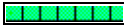

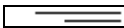
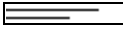



Pipe Strap at 3997'(Bit Trip): Strap 0.18' Short to the Board, no correction made to the Board.

NOTE: Pulled PDC bit at 3997'. Ran in with Conventional "button" bit to drill on to Total Depth.








































































After review of the Halliburton Logs, DST data, and positive shows of hydrocarbons, the operator elected to set new 5 1/2" Production Casing for completion in the Cherokee Sand and Mississippian zones.

LOG TOPS: Chase 2498(-217), Stotler Lmst. 3428(-1147), Howard 3632(-1351), Queen Hill Shale 3941(-1660), Heebner Shale 4069(1788), Toronto 4091(-1810), Brown Lmst. 4212(-1931), Lansing 'A' 4222(-1941), Lans/KC. 'H' 4387(-2106), Stark Shale 4538(-2257), Base Kansas City 4615(-2334), Marmaton 4660(-2379), Pawnee 4707(-2426), Cherokee Shale 4751(-2470), Cheokee Sand 4820(-2539), Miss. Chert 4836(-2555), Miss. Osage Marker 4862(-2581), Basal Miss. Lime 4929(-2648).

## ROCK TYPES

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

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

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

[V] Vuggy

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

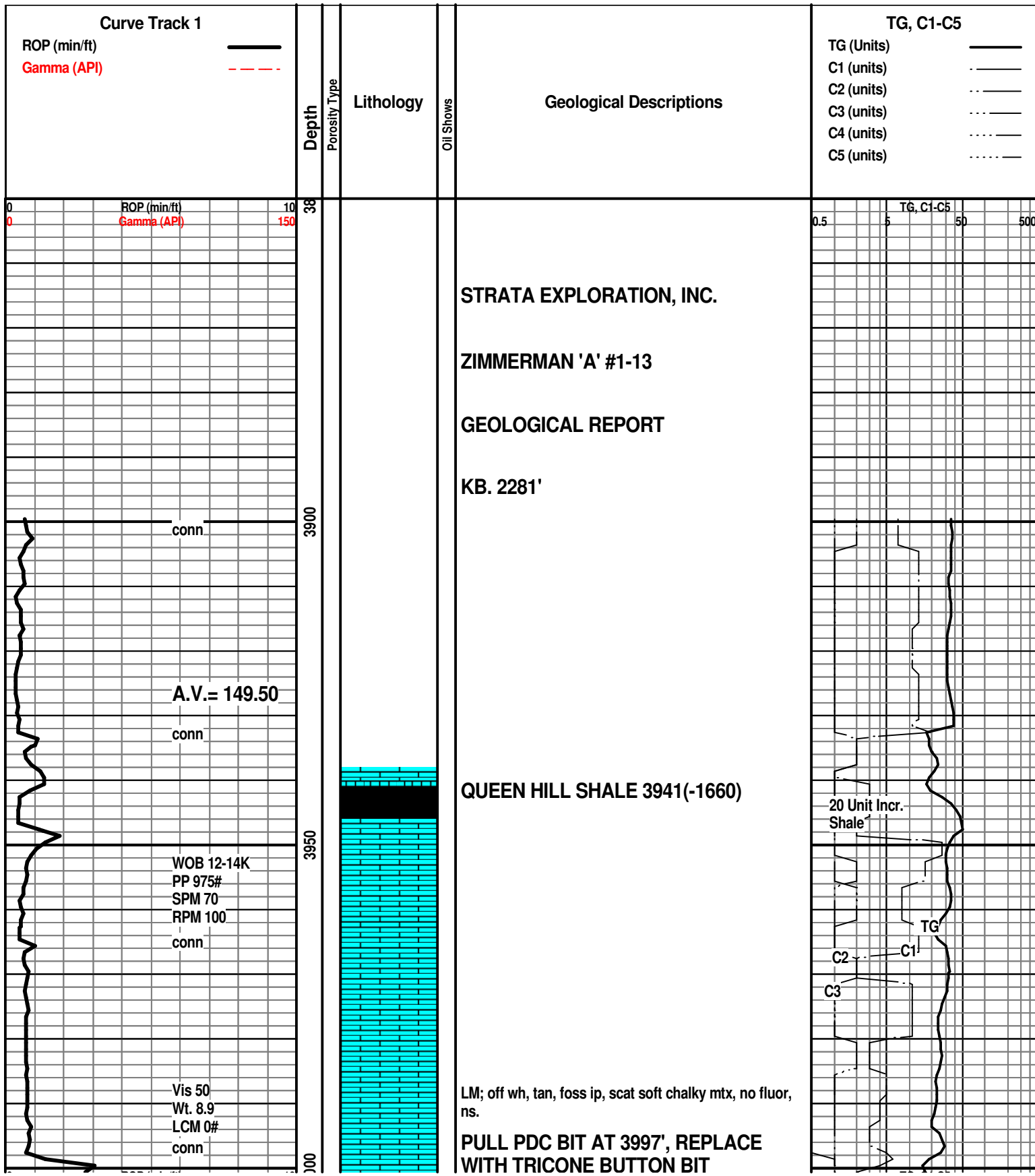
- ROUNDING**  
 [R] Rounded  
 [r] Subrnd  
 [a] Subang  
 [A] Angular

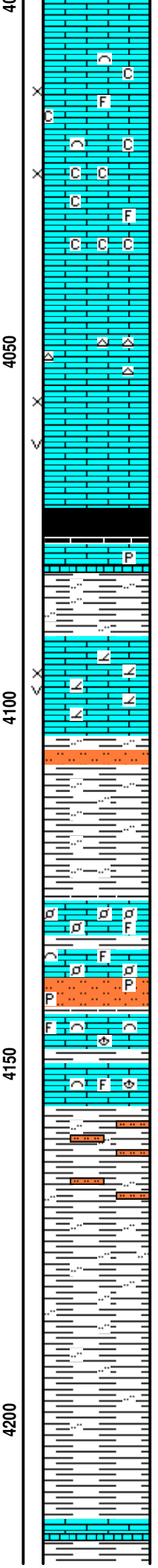
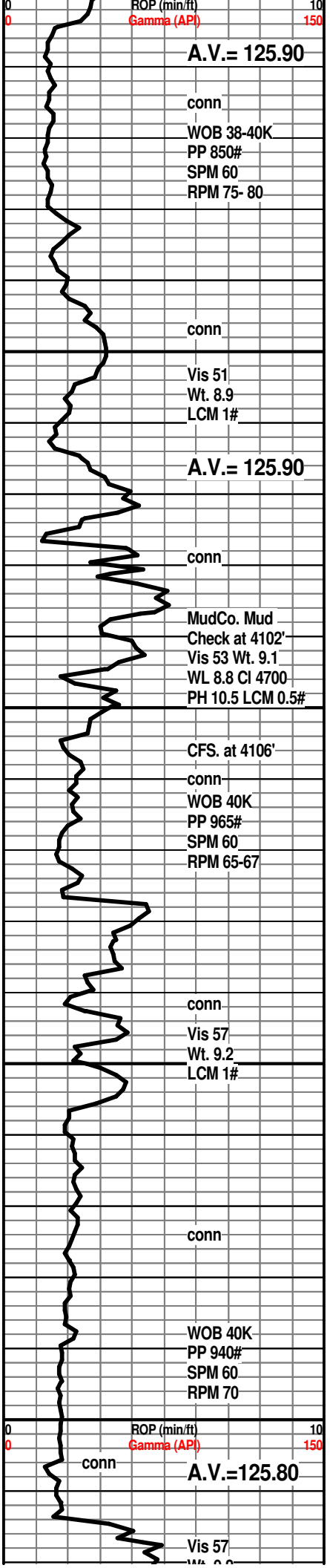
**OIL SHOW**  
 [O] Even

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

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

- EVENT**  
 [R] Rft  
 [S] Sidewall





LM; tan to off wh, foss ip, dense, no vis por, no fluor, ns.

LM; tan to buff, lt brn, foss w/scat med xln lmst, fair interpart/interxln por, abnt soft chalk and occ chalky mtz, dull yel min fluor, no stn, ns.

LM; tan to lt brn, blocky, most micritic, scat gy occ foss cht, no vis por, ns.

LM; tan to off wh, buff, foss w/fair foss-cast por, occ small vug por, dull yel fluor, no stn or odor, ns.

**HEEBNER SHALE 4072(-1791)**  
SH; blk, carb ip, blocky, gassy  
LM; med to dk brn, dense, micritic, rare pyr

SH; grn, gy grn, silty ip, some waxy

**TORONTO 4090(-1809)**  
LM; off wh, sucrosic text - dolo ip, scat fair vug/interxln por, dull to lt yel fluor, occ cse spar calc xtals, no vis gas bubbles, no stn, no apparent gas kick, no oil shows

**DOUGLAS SHALE 4104(-1823)**  
SH; lt gy, silty w/interbdd sltst, soft ip

SH; lt to med gy, gy grn, soft ip, occ silty

LM; med gy, med brn, highly foss, scat pellets and hash, some well cem, no vis por, no fluor, ns.

SLTST; lt gy, mica, platy, occ pyr

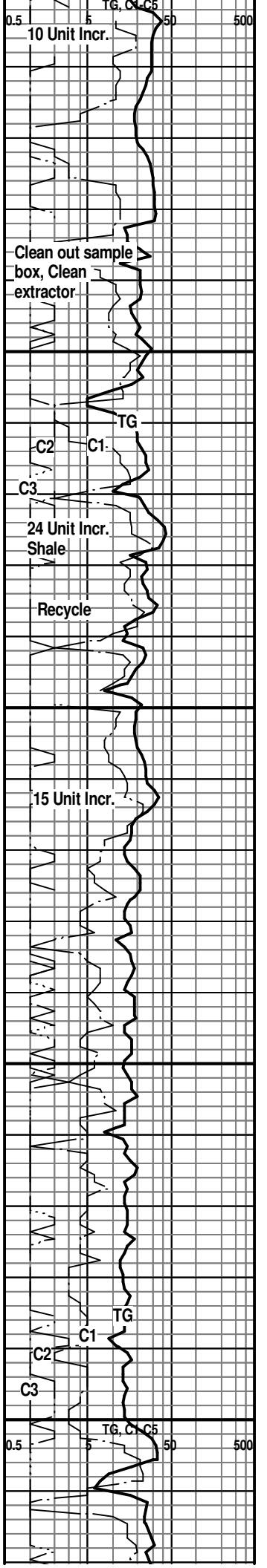
LM; med brn, med gy, foss, some v. hd, blocky, occ soft dk gy shaly lmst interbdd, no vis por, no fluor, ns.

SH; lt to med gy, platy, occ silty w/interbdd sltst.

SH; lt to med gy, firm, occ silty

SH; lt to med gy, platy, most smooth, occ silty

**BROWN LMST. 4214(-1933)**  
LM; med brn, hd, rare well cem foss, blocky



Wt. 9.2  
LCM 0.5#

**DST #1  
Lansing 'A'  
4225' - 4242'**

conn

CFS. at 4242'

MudCo. Mud  
Check at 4268'  
Vis 63 Wt. 9.3  
WL 9.2 Cl 5600  
PH 9.5 LCM 0#

conn

WOB 40K  
PP 975#  
SPM 58  
RPM 75

A.V.= 125.80

conn

Vis 68  
Wt. 9.5  
LCM 0#

conn

WOB 40K  
PP 975#  
SPM 58  
RPM 76

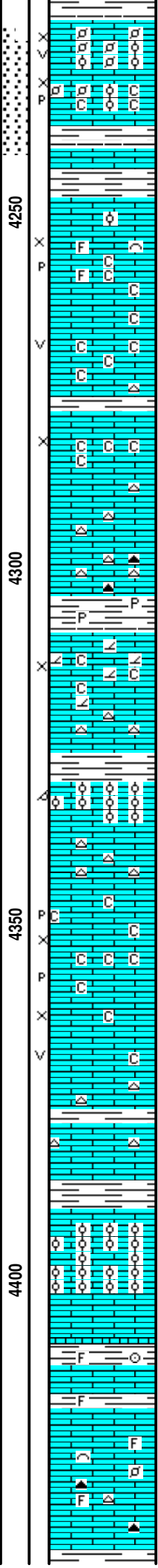
conn

ROP (min/ft)  
Gamma (API)

Vis 60  
Wt. 9.3+  
LCM 0#

conn

WOB 40K  
PP 970#



**LANSING 'A' 4223(-1934)**

LM; lt brn, foss - oolitic, scat ooids and pellets, fair interpart w/small vug por, lt yel fluor, sev. gas bubbles, no vis oil stn, Gas show only

LM; off wh, buff, foss, med xln w/fair interxln and p-p por, chalky ip, lt yel fluor, trc gas bubb.

**DST #1: Lansing 'A' 4225' - 4242'**

**LANSING 'B' 4248(-1967)**

LM; tan to off wh, buff, foss w/occ poor interpart & p-p por, scat soft chalk and chalky mtx, v. dull yel fluor, trc blk tar/gils, no live show

LM; lt gy, lt gy brn, tan, fxln w/occ vug por, v. dull yel min fluor, chalky ip, few pcs w/dead oil stn/gils, no live shows, no odor, no gas kick

LM; tan to cream, buff, f to med xln, scat spar calc xtals, poor interxln por, minor soft chalky mtx, no fluor, no stn or odor, ns.

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

SH; med to dk gy, platy, occ pyr

LM; wh, off wh, fxln to sucrosic text, partly dolomitic, fair interxln por, occ soft chalky mtx, no fluor, no stn or odor, ns.

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

**LANSING 'G' POROSITY 4330(-2049)**

LM; tan to lt brn, oolitic, scat foss hash also, partly oomoldic w/fair oomoldic por, v. dull yel fluor, no stn or odor, ns.

LM; off wh, buff, wh, f to med xln, fair interxln w/occ p-p por, interbdd chalky mtx. v. dull yel to no fluor, no stn, no gas kick, ns.

LM; tan to cream, buff, f to med xln, poor to fair interxln w/scat small vug por, lt yel min fluor, no stn or odor, ns.

LM; med brn, foss, scat gy cht, tite

SH; med gy grn, dk gy, platy

**LANSING/K.C. 'H' 4390(-2109)**

LM; lt brn, oolitic, med size molds, v. gd oomoldic w/occ vug por, lt yel min fluor, brittle ip, rare overgrowths, no stn or odor, no sample shows

LM; tan to lt brn, micritic, scat gy/wh cht, tite

SH; grn, gy grn, foss ip.

LM; tan to off wh, foss to fxln, scat poor interpart por, occ lt brn to amber cht, no fluor, no stn or odor, ns.

**KANSAS CITY 'I' 4440(-2159)**

5 Unit Incr.

8 Unit Incr.  
**SHOW**

3 Unit Incr.

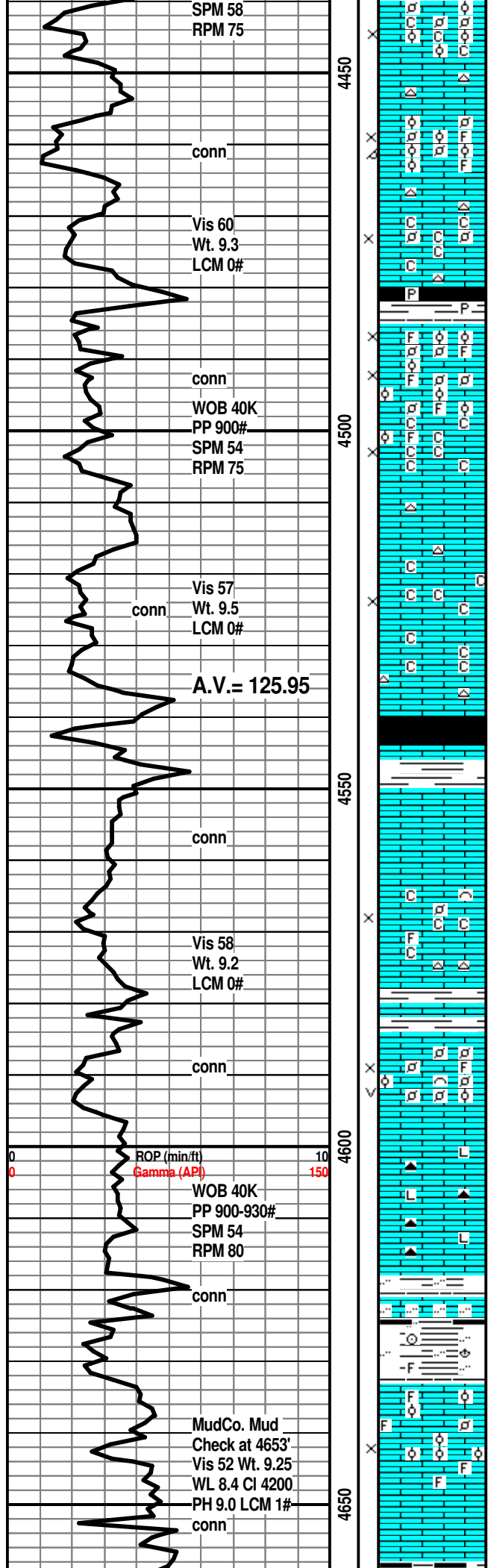
TG  
C1  
C2  
C3

4 Unit Incr.

0.5 50 500 TG C1-C5

3 Unit Incr.





LM; off wh, tan, finely pelletal - oolitic, compact small ooids, loosely cem - fair interpart por, dull yel fluor, minor chalky mtx, no stn or odor, ns.

LM; off wh, lt gy, finely pelletal - abnt compact ooids and foss hash, fair to gd interpart por, trc oomoldic lmst, dull yel min fluor, no vis stn, no odor

LM; off wh, tan, foss - pelletal ip, much soft chalk and chalky mtx, poor interpart por, dull yel fluor, ns.

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

**KANSAS CITY 'J' 4485(-2204)**

LM; tan to lt brn, foss - pelletal to oolitic, poor to fair interpart por, trc oomoldic lmst, dull to lt yel fluor, poss faint odor, no vis stn, no gas kick

LM; wh, off wh, buff, foss ip, much soft chalky and chalky lmst, poor interpart por, no fluor, ns.

LM; lt brn, blocky, micritic, hd, rare gy/wh cht

LM; offwh, lt gy, fxln w/much chalk and chalky mtx, poor interxln por, rare wh cht, soft ip, no fluor, ns.

**STARK SHALE 4540(-2259)**

SH; blk, carb ip, trc gas, blocky ip.

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

**SWOPE 4550(-2269)**

POOR SAMPLES - MUCH SHALE AND ANHYDRITE SLOUGHING

LM; off wh, tan, foss ip, scat small pellets, interbdd soft occ chalky lmst, no fluor, no vis por, ns.

SH; med to dk gy, smooth, platy

**HERTHA 4584(-2303)**

LM; tan to buff, cream, foss w/small pellets and foss hash, trc oolitic, fair interpart w/rare small vug por, no fluor, no stn or odor, ns.

LM; med to dk brn, rare foss, some litho, scat smoky to dk brn, cht, dense, no flour, ns.

**BASE KANSAS CITY 4618(-2337)**

LM; med brn, gritty - silty text, firm

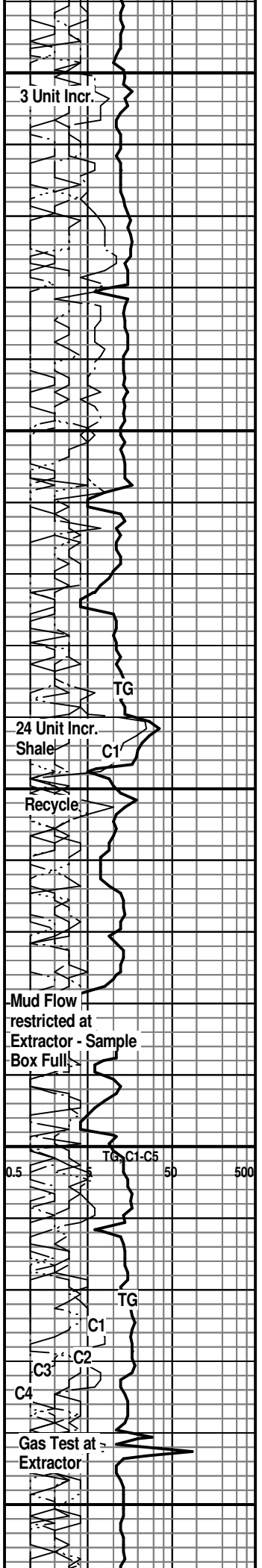
SH; varic, grn, gy, rust red, dk gy - blk, fiss, occ foss, silty

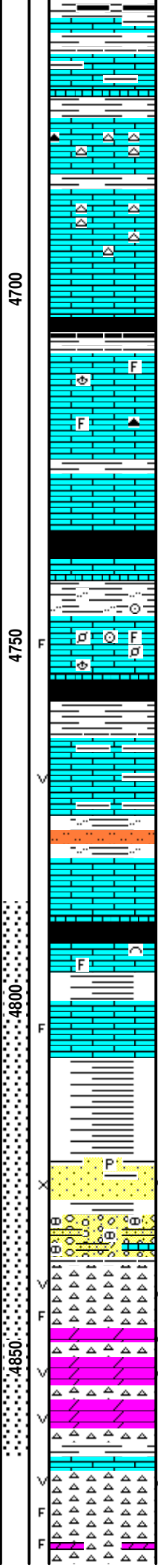
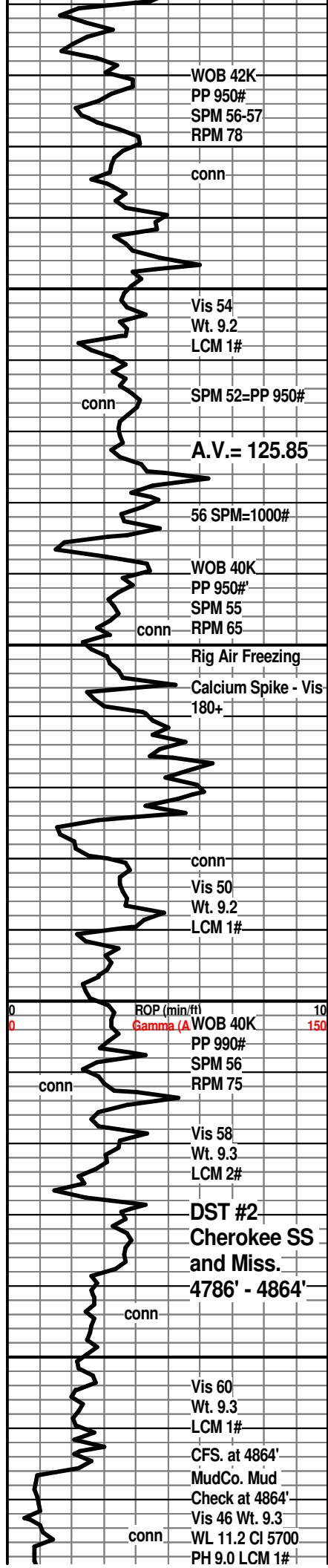
**PLEASANTON 4633(-2352)**

LM; tan, pink, foss w/scat well cem foss pellets /hash, well cem, no vis por, no fluor, ns.

LM; tan to off wh, buff, foss w/interbdd oolitic/pelletal lmst, fair interpart por, dull yel to no fluor, no vis stn, questionable odor

SH; grn, dk av grn, trc dk av/blk, fiss





**MARMATON 4662(-2381)**  
LM; lt brn, gy brn, pale grn tint - argil ip, most dense, rare well cem foss, interbdd grn shales, no fluor, ns.

LM; off wh, tan, buff, most dense - micritic, cherty w/tan to amber cht, no vis por, ns.

LM; tan to lt brn, buff, dense, micritic, blocky, scat gy to off wh cht, no vis por, no stn, ns.

SH; blk, fiss, blocky  
**PAWNEE 4709(-2425)**  
LM; tan to lt brn, blocky, rare well cem foss mat, no vis por, rare smoky/blk cht, no fluor, no stn or odor, ns.

LM; lt to med brn, hd, blocky, no vis por, rare gy/smoky cht, ns.  
**LABETTE SHALE 4734(-2453)**  
SH; blk, carb ip, trc gas, blocky  
SH; grn, gy grn, silty ip.  
LM; lt to med brn, hd, foss ip, occ pyr, no vis por, dull yel fluor, trc frags w/blk tar/gils, no live shows, no odor

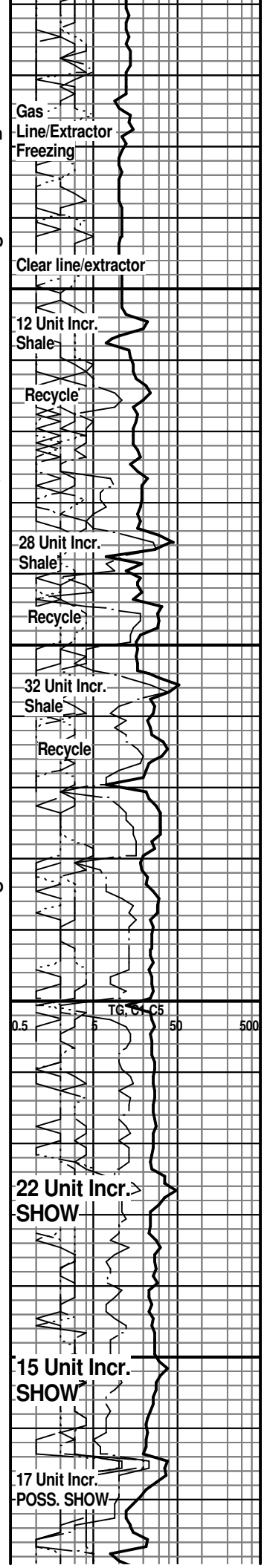
**CHEROKEE SHALE 4755(-2474)**  
SH; blk, carb ip, rare pyr, platy  
LM; tan to lt brn, gy brn, some argil lmst, rare pcs. w/small vug por - dead oil/gils, dull yel fluor, no live shows, no odor, most tite  
SH; varic, grn, rust red, brn, silty ip w/interbdd soft sltst.  
LM; tan to off wh, buff, most dense - micritic, blocky, no vis por, no fluor, much anhy slough  
SH; blk, carb ip, platy  
LM; lt to med brn, hd, rare foss, tite  
LM; tan to lt brn, fxln, few pcs. w/trc frags, rare blk tar/gils dead oil, v. dull yel fluor, no odor, no gas kick

**BASE CHEROKEE LMST. 4808(-2527)**  
SH; varic, grn, brn, gy, rust red(sample washes red), platy to flakey, occ silty

**CHEROKEE SAND 4822(-2541)**  
SS; clr, med gr, qtz, subrnd, clusters, some tite, some w/gd intergran por, argil ip, much even med brn stn, gd oil odor, SFO, med yel fluor, instant cut  
CONGL; weath lmst nodules, shaly ss

**MISSISSIPPI CHERT 4837(-2556)**  
CHT; wh, pale grn, lt brn(scatt. oil stn), fresh w/occ trip cht, partly dolo w/grainy text, dull to occ med yel fluor, fairly strong odor, scat vug por in trip cht w/live oil stn

CHTY DOL; pale grn, gritty, scat lrg qtz xtals w/live oil, sev. pcs. w/well dev. vug por, lt - med brn spotted/even live oil stn, SSO, strong odor  
**DST #2: Cher. SS + Miss. 4786' - 4864'**  
**MISS. OSAGE MARKER 4865(-2584)**  
CHT; lt gy, wh, opaque, fresh, scat vug por w/lt brn live oil stn, occ frags, gd odor, scat brite yel fluor  
CHT; wh, porc, fractured, all fresh, trc off wh to wh



A.V. = 126.15

conn

WOB 40K  
PP 850#  
SPM 56  
RPM 70-75

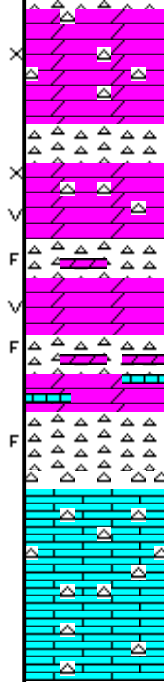
conn

Vis 59  
Wt. 9.2  
LCM 1#  
CFS. at RTD.

4900

4950

00



cherty dolo, no vis stn, no fluor, ns.

DOL; buff, tan, sucrosic, hd to soft, occ fair interxln por, cherty ip, med yel min fluor, faint odor, no vis oil stn, no cut

DOL; off wh, tan, buff, sucrosic, cherty ip, fair to occ gd interxln w/some vug por, med yel min fluor, no stn, v. faint odor, ns.

DOL and CHT; wh fresh cht, fracs ip, w/interbdd off wh to tan sucrosic cherty dolo, rare small vug por, lt yel min fluor, no stn or odor, ns, interbdd hd lmy dolo.

CHT; wh, transl qtz xtals, fresh, some porc, trc fracs, no fluor, ns.

**BASAL MISS. LMST. 4929(-2648)**

LM; lt brn, pred. micritic, scat med spar xtals, cherty ip w/wh to gy occ foss cht, no vis por, no fluor, ns.

RTD. 4950' at 5:40 PM. 12/6/13

LTD. 4948'

Halliburton "Quad Stack" ACRT(DIL),  
NEU/DEN w/PE, Microlog, Sonic

Recycle of B.U.  
Gas - NOT REAL  
GAS KICK

Recycle



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Strata Exploration Inc.

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

P.O.Box 401  
Fairfield Il.62837

**Zimmerman A#1-13**

ATTN: Jon Christensen

Job Ticket: 51789

**DST#: 1**

Test Start: 2013.12.04 @ 00:28:44

## GENERAL INFORMATION:

Formation: **Lans A**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:10:59

Time Test Ended: 06:35:14

Test Type: Conventional Bottom Hole (Initial)

Tester: Gary Pevoteaux

Unit No: 56

**Interval: 4225.00 ft (KB) To 4242.00 ft (KB) (TVD)**

Reference Elevations: 2281.00 ft (KB)

Total Depth: 4242.00 ft (KB) (TVD)

2268.00 ft (CF)

Hole Diameter: 7.79 inches Hole Condition: Fair

KB to GR/CF: 13.00 ft

**Serial #: 8352 Inside**

Press @ Run Depth: 69.09 psig @ 4226.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.12.04

End Date:

2013.12.04

Last Calib.:

2013.12.04

Start Time:

00:28:49

End Time:

06:35:13

Time On Btm:

2013.12.04 @ 02:10:44

Time Off Btm:

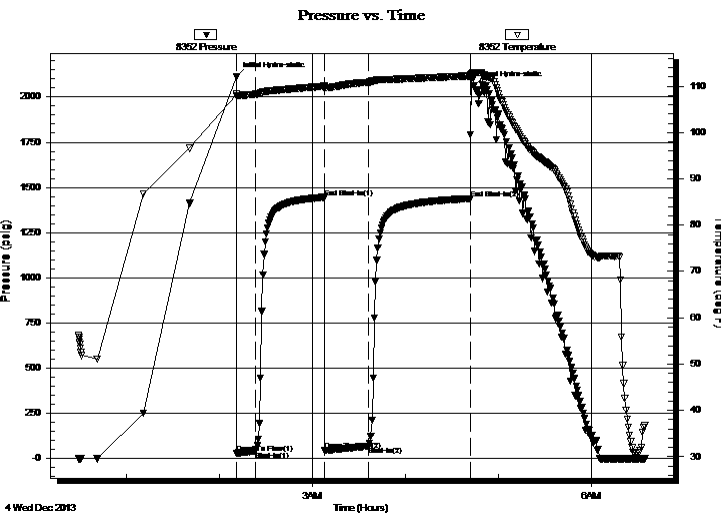
2013.12.04 @ 04:44:29

TEST COMMENT: IF:Weak blow . Increase to 4 1/2".

IS:No blow .

FF:Weak blow . 1/2 - 1".

FS:No blow .



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2110.39	108.27	Initial Hydro-static
1	28.91	107.99	Open To Flow (1)
13	40.07	108.24	Shut-In(1)
57	1445.07	109.98	End Shut-In(1)
57	42.88	109.43	Open To Flow (2)
86	69.09	110.85	Shut-In(2)
152	1438.45	112.23	End Shut-In(2)
154	2062.22	112.97	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
110.00	MW 12% <sup>m</sup> 88% <sup>w</sup> /Rw .18ohms @40deg	0.54
0.00	50 ft.of GIP	0.00

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Strata Exploration Inc.

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

P.O.Box 401  
Fairfield Il.62837

**Zimmerman A#1-13**

Job Ticket: 51789

**DST#: 1**

ATTN: Jon Christensen

Test Start: 2013.12.04 @ 00:28:44

## 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: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4700.00 ppm

Filter Cake: 0.20 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
110.00	MW 12% <sub>m</sub> 88% <sub>w</sub> /Rw .18ohms@40deg	0.541
0.00	50 ft.of GIP	0.000

Total Length: 110.00 ft      Total Volume: 0.541 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

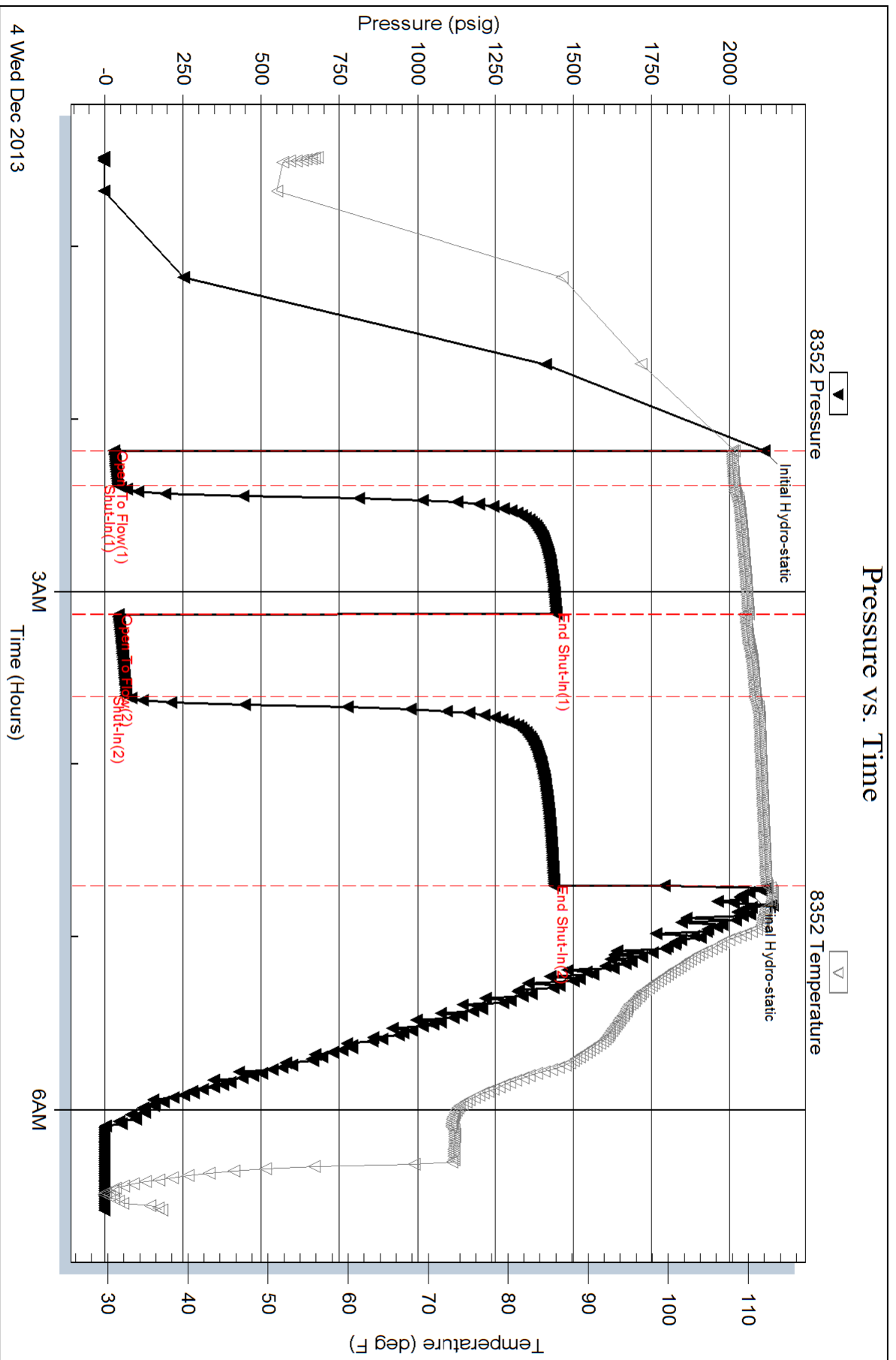
Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

# Pressure vs. Time





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Strata Exploration Inc.

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

P.O.Box 401  
Fairfield Il.62837

**Zimmerman A#1-13**

Job Ticket: 51790

**DST#: 2**

ATTN: Jon Christensen

Test Start: 2013.12.06 @ 04:55:41

## GENERAL INFORMATION:

Formation: **Cherokee / Miss.**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 06:53:26  
 Time Test Ended: 11:50:11  
 Interval: **4786.00 ft (KB) To 4864.00 ft (KB) (TVD)**  
 Total Depth: 4864.00 ft (KB) (TVD)  
 Hole Diameter: 7.79 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Gary Pevoteaux  
 Unit No: 56  
 Reference Elevations: 2281.00 ft (KB)  
 2268.00 ft (CF)  
 KB to GR/CF: 13.00 ft

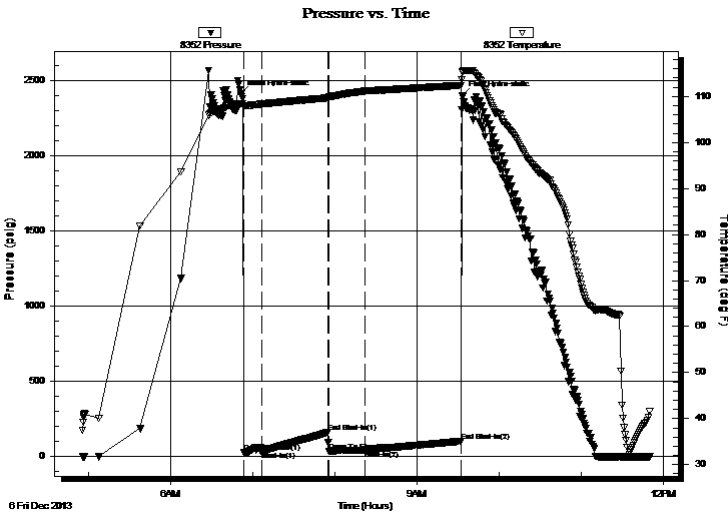
## Serial #: 8352

Inside

Press@RunDepth: 41.32 psig @ 4787.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2013.12.06 End Date: 2013.12.06 Last Calib.: 2013.12.06  
 Start Time: 04:55:46 End Time: 11:50:10 Time On Btm: 2013.12.06 @ 06:51:26  
 Time Off Btm: 2013.12.06 @ 09:32:56

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

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2410.35	108.40	Initial Hydro-static
2	25.39	107.88	Open To Flow (1)
15	34.44	108.34	Shut-In(1)
64	160.19	109.69	End Shut-In(1)
64	32.81	109.82	Open To Flow (2)
91	41.32	111.18	Shut-In(2)
161	101.55	112.42	End Shut-In(2)
162	2400.12	115.29	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
40.00	GOCM 4%g 4%o 92%m	0.20
0.00	60 ft. of GIP	0.00

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Strata Exploration Inc.

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

P.O.Box 401  
Fairfield Il.62837

**Zimmerman A#1-13**

Job Ticket: 51790

**DST#: 2**

ATTN: Jon Christensen

Test Start: 2013.12.06 @ 04:55:41

### 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:

4200 ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.39 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4200.00 ppm

Filter Cake: 0.20 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
40.00	GOCM 4%g 4%o 92%m	0.197
0.00	60 ft. of GIP	0.000

Total Length: 40.00 ft      Total Volume: 0.197 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

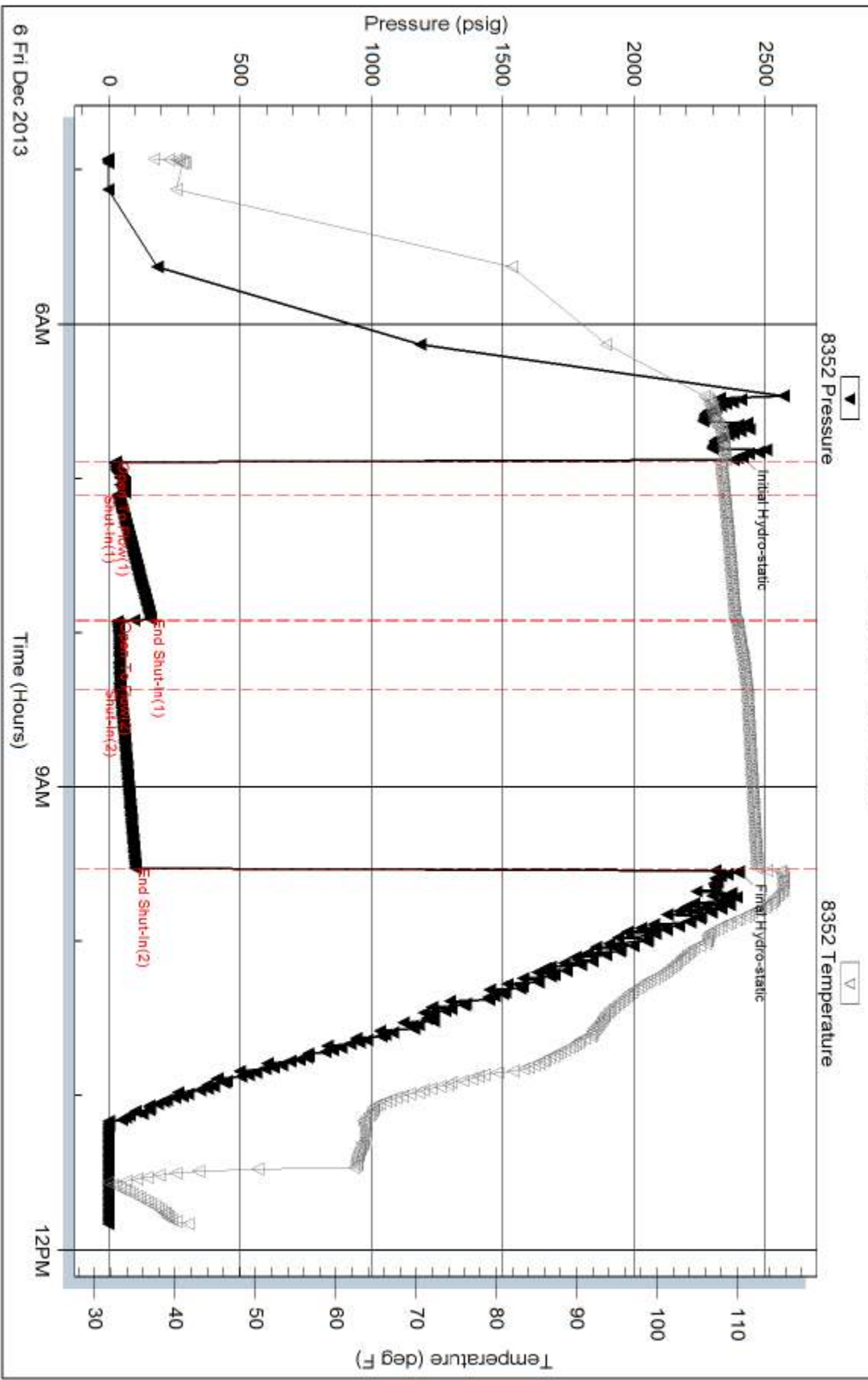
Laboratory Name:

Laboratory Location:

Recovery Comments:



### Pressure vs. Time





PAGE	CUST NO	INVOICE DATE
1 of 1	1004072	12/03/2013
INVOICE NUMBER		
1718 - 91352142		

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

**PAID**  
 12-30-13  
 FNB SA 9819

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
40668072	19905		Net - 30 days	01/02/2014

*For Service Dates: 11/30/2013 to 11/30/2013*

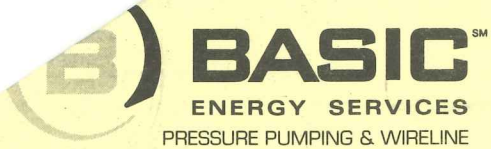
0040668072

171809541A Cement-New Well Casing/Pi 11/30/2013  
 Cement 8 5/8 Surface

LEASE	12/9 C: ZIMMERMAN A H3	LEV	5	P/P	12/10
DES	CEMENT SURFACE	A/P			12/10
DRL	X	COM		LOE	G/L
			71739/10		362 <sup>98</sup>

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
A-Con Blend Common	190.00	EA	13.50	2,564.82 T
Common Cement	180.00	EA	12.00	2,159.87 T
Celloflake	93.00	EA	2.77	258.06 T
Calcium Chloride	877.00	EA	0.79	690.60 T
"Top Rubber Cmt Plug, 8 5/8""	1.00	EA	168.74	168.74
"8 5/8"" Guide Shoe (Red)"	1.00	EA	412.48	412.48
"Baffle Plate Alum., 8 5/8"" (Blue)"	1.00	EA	127.49	127.49
"8 5/8"" Basket (Blue)"	1.00	EA	236.24	236.24
"Unit Mileage Chg (PU, cars one way)"	50.00	MI	3.19	159.37
Heavy Equipment Mileage	100.00	MI	5.25	524.97
"Proppant & Bulk Del. Chgs., per ton mil	873.00	EA	1.20	1,047.54
Depth Charge; 501'-1000'	1.00	EA	899.95	899.95
Blending & Mixing Service Charge	370.00	BAG	1.05	388.48
Plug Container Util. Chg.	1.00	EA	187.49	187.49
"Service Supervisor, first 8 hrs on loc.	1.00	EA	131.24	131.24

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	9,957.34
BASIC ENERGY SERVICES,LP	BASIC ENERGY SERVICES,LP	TAX	405.64
PO BOX 841903	801 CHERRY ST, STE 2100	INVOICE TOTAL	10,362.98
DALLAS, TX 75284-1903	FORT WORTH, TX 76102		



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

FIELD SERVICE TICKET  
1718 09541 A

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

DATE OF JOB <u>11-30-13</u> DISTRICT _____	NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/> CUSTOMER ORDER NO.:		
CUSTOMER <u>STRATA-Exploration</u>	LEASE <u>Zimmerman A 1-13</u> WELL NO.		
ADDRESS _____	COUNTY <u>Kiowa</u> STATE <u>Ks</u>		
CITY _____ STATE _____	SERVICE CREW <u>Sullivan, McPraw, Kueman</u>		
AUTHORIZED BY _____	JOB TYPE: <u>cpw 8 5/8 Surface</u>		
EQUIPMENT# HRS	EQUIPMENT# HRS	EQUIPMENT# HRS	TRUCK CALLED <u>11-30-13</u> DATE <u>AM</u> TIME <u>8:00</u>
<u>27686-19905 40</u>			ARRIVED AT JOB <u>PM</u> <u>10:15</u>
<u>19959-19860 40</u>			START OPERATION <u>AM</u> <u>12:35</u>
<u>37900</u>			FINISH OPERATION <u>PM</u> <u>1:15</u>
			RELEASED <u>AM</u> <u>1:45</u>
			MILES FROM STATION TO WELL <u>50</u>

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

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

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP 101	A-Cond Blend cont	SK	190		3,420.00
CP 100-C	Command cont	SK	180		2,880.00
CC 102	CollFAs	lb	93		344.10
CC 109	Calcium chloride	lb	877		970.85
CF 105	TOP Rubber Ply 8 5/8	SA	1		225.00
CF 203	Guide Shoe	EA	1		350.00
CF 753	BAFFLE Plate	SA	1		170.00
CF 1903	BASKET	SA	1		315.00
E 100	putp m	mi	50		212.50
E 101	Heavy Esat	m	100		700.00
E 113	Bulk Adm	rm	873		1,396.00
CE 201	Depth change 500-1000	SA	1		1,200.00
CE 240	Blending - mixing	SK	370		518.00
CE 304	Ply Contained Rental	SA	1		250.00
S 003	Schum Super	SA	1		175.00

SUB TOTAL KG 9,957.34

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
TOTAL		<u>THANK YOU</u>

SERVICE REPRESENTATIVE <u>Robert Jellard</u>	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: <u>Alan Lott</u> (WELL OWNER OPERATOR CONTRACTOR OR AGENT)
FIELD SERVICE ORDER NO.	



energy services, L.P.

TREATMENT REPORT

Customer <i>STRATA - Exploratory</i>	Lease No.	Date <i>11-30-13</i>
Lease <i>Zimmerman A</i>	Well # <i>1-13</i>	
Field Order # <i>9541</i>	Station <i>PRATT KS</i>	Casing <i>8 3/8</i>
Type Job <i>CNW 8 3/8 Surface</i>	Depth <i>613'</i>	County <i>KLINGA</i>
	Formation	State <i>KS</i>
		Legal Description <i>13-27-20</i>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size <i>8 3/8</i>	Tubing Size	Shots/Ft		Acid		RATE	PRESS	ISIP
Depth <i>613</i>	Depth	From	To	Pre Pad	Max			5 Min.
Volume <i>36.9</i>	Volume	From	To	Pad	Min			10 Min.
Max Press <i>300</i>	Max Press	From	To	Frac	Avg			15 Min.
Well Connection <i>P.C</i>	Annulus Vol.	From	To		HHP Used			Annulus Pressure
Plug Depth <i>571'</i>	Packer Depth	From	To	Flush	Gas Volume			Total Load

Customer Representative	Station Manager <i>DAVE SCOTT</i>	Treater <i>Robert Sullivan</i>
Service Units <i>37900 22686 19905 19959 19860</i>		
Driver Names <i>Sullivan McGraw Korman</i>		

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>10:15 AM</i>					<i>on loc safety meeting</i>
					<i>Run 8 3/8 csg. Guide SHOE BASKET PLUG</i>
					<i>BASKET 290'</i>
<i>12:20</i>					<i>CASING on Bottom</i>
<i>12:30</i>					<i>Hook by circ csg.</i>
<i>12:35</i>	<i>300</i>				<i>81 SPACER</i>
			<i>83</i>	<i>4.5</i>	<i>81 mix. A-cid @ 12ppg</i>
			<i>38</i>		<i>81 mix. Tail cement cont 15.5ppg</i>
					<i>cont mixed shut down Release Plug</i>
<i>1:15</i>	<i>500</i>		<i>36 1/2</i>		<i>81 disp plug down</i>
					<i>circled 15 BBL cont Pit</i>
					<i>JOB Complete</i>
					<i>THANK YOU</i>



PAGE 1 of 1	CUST NO 1004072	INVOICE DATE 12/10/2013
INVOICE NUMBER <b>1718 - 91356379</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 Zimmerman A 1-13  
 O LOCATION  
 B COUNTY Kiowa  
 S STATE KS  
 I JOB DESCRIPTION Cement-New Well Casing/Pi  
 E JOB CONTACT

**PAID**  
 12-30-13  
 FNB SA# 9819

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
40669847	20920		Net - 30 days	01/09/2014

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
<b>For Service Dates: 12/08/2013 to 12/08/2013</b>				
0040669847				
171809588A Cement-New Well Casing/Pi 12/08/2013 Cement 5 1/2" Longstring				
50/50 POZ	250.00	EA	8.25	2,062.48 T
Celloflake	63.00	EA	2.78	174.83 T
Gypsum	1,050.00	EA	0.56	590.63 T
FLA-322	105.00	EA	5.63	590.63 T
Gilsonite	1,500.00	EA	0.50	753.75 T
KCL, Potassium Chloride	566.00	EA	1.13	636.75 T
Claymax KCL Substitute	5.00	EA	26.25	131.25 T
Mud Flush	1,000.00	EA	0.65	645.00 T
"Latch Down Plug & Baffle, 5 1/2" (Blu	1.00	EA	300.00	300.00
"Auto Fill Float Shoe 5 1/2" (Blue)"	1.00	EA	270.00	270.00
"Turbolizer, 5 1/2" (Blue)"	12.00	EA	82.50	990.00
"5 1/2" Basket (Blue)"	1.00	EA	217.50	217.50
"Cement Scratchers Cable Type, 5 1/2" "	9.00	EA	56.25	506.25
"Unit Mileage Chg (PU, cars one way)"	50.00	MI	3.19	159.38
Heavy Equipment Mileage	100.00	MI	5.25	525.00
"Proppant & Bulk Del. Chgs., per ton mil	525.00	EA	1.20	630.00
Depth Charge; 4001'-5000'	1.00	EA	1,890.00	1,890.00
Blending & Mixing Service Charge	250.00	BAG	1.05	262.50
Plug Container Util. Chg.	1.00	EA	187.50	187.50
"Service Supervisor, first 8 hrs on loc.	1.00	EA	131.25	131.25

LEAF	12/13	C. ZIMMERMAN A 1-13	LEV	5	P/P
DES	CEMENT LONG STRING			A/P	
DRL	COM	LOE	G/L	05	D/D
	X		73.551/12054		

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	11,654.70
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	399.35
PO BOX 841903	801 CHERRY ST, STE 2100	INVOICE TOTAL	12,054.05
DALLAS, TX 75284-1903	FORT WORTH, TX 76102		

FIELD SERVICE TICKET

1718 09588 A



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

13-275-20W

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

DATE OF JOB: 12-8-13		DISTRICT: Pratt, Kansas		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, Inc.				LEASE: Zimmerman "A"				WELL NO: 1-13	
ADDRESS:				COUNTY: Kiowa		STATE: Kansas			
CITY:		STATE:		SERVICE CREW: C. Messick, D. Phye, J. Pierson					
AUTHORIZED BY:				JOB TYPE: C.N.W. - Longstring					
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME
37,216	1.75						12-7-13	PM	4:00
						ARRIVED AT JOB	12-7-13	PM	8:30
33,708-20,920	1.75					START OPERATION	12-8-13	PM	4:15
						FINISH OPERATION	12-8-13	PM	6:00
19,831-19,862	1.75					RELEASED	12-8-13	PM	6:15
						MILES FROM STATION TO WELL	50		

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

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

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP 104	50/50 Poz Blend Cement	sh	200	\$	2,200 00
CP 104	50/50 Poz Blend Cement	sh	50	\$	550 00
CC 102	Cellflite	Lb	63	\$	233 10
CC 113	Gypsum	Lb	1050	\$	787 50
CC 129	Fluid Loss	Lb	105	\$	787 50
CC 201	Gilsonite	Lb	1500	\$	1,005 00
C 700	HCL: Potassium Chloride	Lb	566	\$	849 00
CF 607	Latch Down Plug and Baffle, 5 1/2"	ea	1	\$	400 00
CF 1251	Auto Fill Float Shoe, 5 1/2"	ea	1	\$	360 00
CF 1651	Turbolizer, 5 1/2"	ea	12	\$	1,320 00
CF 1901	Basket, 5 1/2"	ea	1	\$	290 00
CF 2001	Recipricating Scratchers, 5 1/2"	ea	9	\$	675 00
C 704	Claymax	Gal	5	\$	175 00
CC 151	Mud Flush	Gal	1000	\$	860 00

SUB TOTAL

16

CHEMICAL / ACID DATA:			

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

SERVICE REPRESENTATIVE: <i>[Signature]</i>	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: <i>[Signature]</i>
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)	

FIELD SERVICE ORDER NO.



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

FIELD SERVICE TICKET

1718 ~~09589~~ A

Continuation of

13-275-20W

DATE TICKET NO. 171809588A

DATE OF JOB 12-8-13		DISTRICT Pratt, Kansas		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, Inc.				LEASE Zimmerman "A"				WELL NO. 1-13	
ADDRESS				COUNTY Kiowa		STATE Kansas			
CITY				STATE		SERVICE CREW C. Messick; D. Phye; J. Pierson			
AUTHORIZED BY				JOB TYPE: C.N.W. - Longstring					
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM PM	TIME
						ARRIVED AT JOB		AM PM	
						START OPERATION		AM PM	
						FINISH OPERATION		AM PM	
						RELEASED		AM PM	
						MILES FROM STATION TO WELL			

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

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

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
E 100	Pick up Mileage	Mi	50	\$	212 50
E 101	Heavy Equipment Mileage	Mi	100	\$	700 00
E 113	Bult Delivery	tm	525	\$	840 00
CE 205	Cement Pump: 4,001 Feet To 5,000 Feet	hrs	4	\$	2,520 00
CE 240	Blending and Mixing Service	St	250	\$	350 00
CE 504	Plug Container	Job	1	\$	250 00
S003	Service Supervisor	hrs	4	\$	175 00

CHEMICAL / ACID DATA:			

SUB TOTAL		\$ 11,654 70
SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
TOTAL		

SERVICE REPRESENTATIVE <i>R. M. [Signature]</i>	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: <i>[Signature]</i>
FIELD SERVICE ORDER NO.	(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

Operator Strata Exploration, Inc.	Lease No. Zimmerman "A"	Well # 1-13	Date 12-8-13
Field Order # 9588	Station Pratt, Kansas	Casing 3/2 15.5Lb	Depth 4,947 Feet
Type Job C.N.W. - Longstring	Formation	County Kiowa	State Kansas
		Legal Description 13-285-20 W	

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
3/2 15.5Lb/ft	1 7/8 15.5Lb/ft			200 sacks 50/50 Poz with 28 total gal.				5.8 Fluid Loss
Depth 4,947 Feet	Depth	From 58 ft	To	Pre Pad 25Lb/st. Cellflats, 6	Max Lb/st. Gilsonite			5 Min.
Volume 117.7 Bbl.	Volume	From	To	Pad 14Lb./Gal., 5	Min 4.3 Gal/st., 1.35			10 Min.
Max Press 2,000 PSI	Max Press	From	To	Frac	Avg			15 Min.
Well Connection Ply Rat	Annulus Vol.	From 50 sacks	To		HHP Used			Annulus Pressure
Plug Depth 4,933 Feet	Packer Depth	From	To	Flush 117.4 Bbl. 28 ft	Gas Volume			Total Load

Customer Representative Mike Polley	Station Manager Kevin Gordley	Treater Clarence R. Messich
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Service Units	37,216	33,708	29,920	19,831	18,862				
Driver Names	Messich	Phye	Pierson						

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
8:30 PM	12-7-13				Trucks on location and hold safety meeting
10:00					Sterling Drilling start to run Auto Fill Guide Shoe, Shoe Joint with Latch Down Baffles screwed into collar and a total of 113 Joints new 15.5 Lb./Ft. 5 1/2" casing. A Basket was installed on Joint #12 A Turbolizer was installed on Collars # 1, 2, 4, 6, 8, 11, 14, 17, 20, 23, 26, and # 29
2:30 AM	12-8-13				Casing in well Circulate and Reciprocate for 1 Hour
4:12	300			5	Start Fresh water spacer.
			15	5	start mud flush
			39	5	Start Fresh water spacer.
4:25	300		59	5	Start mixing 200 sacks 50/50 Poz cement.
	-0-		107		stop pumping. Shut in well. Wash pump and lines. Release Latch Down Plug, Open Well.
4:45	150			6.5	Start 28 ftCL Displacement.
			70	5	start to lift cement
5:15	900		117.4		Plug down.
	2000				Pressure up.
					Release pressure Float Shoe held
			7.5	3	Plug Rat and mouse holes.
					Wash up pump truck.
6:15					Job Complete.
					Thank You.
					Clarence, Dale, Jesse