



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1229823  
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
-----------------------------------	-----------------	---

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: \_\_\_\_\_

1229823



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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
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:				

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

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

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

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

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

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

TUBING RECORD:      Size: \_\_\_\_\_ Set At: \_\_\_\_\_ Packer At: \_\_\_\_\_ Liner Run:  Yes  No

Date of First, Resumed Production, SWD or ENHR.	Producing Method: <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> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
---	--	--

Form	ACO1 - Well Completion
Operator	White Exploration, Inc.
Well Name	Chain Ranch "A" 3
Doc ID	1229823

All Electric Logs Run

Compensated Density/Neutron Log
Dual Induction Log
Microlog
Sonic Log



# ALLIED OIL & GAS SERVICES, LLC 063671

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999

SOUTHLAKE, TEXAS 76092

SERVICE POINT:

MEDICAL LOGS

DATE / 10-18-14	SEC.	TWP.	RANGE	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
CH 1-10				1030	1145	1235	120
LEASE <u>20064</u>	WELL # <u>A-3</u>	LOCATION <u>291 + 99 SPRINGS F TO R B + S.W.T.D</u>		COUNTY	STATE		
OLD OR NEW (Circle one)				ADAIR	KS		

CONTRACTOR DIGRELL OWNER WHITE EXPLORATION

TYPE OF JOB SURFACE CEMENT

HOLE SIZE 12 1/4 T.D. 308 AMOUNT ORDERED 190 sacks A + 32 cc

CASING SIZE 8 3/8 DEPTH 304

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. 20

PERFS.

DISPLACEMENT 18.5

EQUIPMENT

PUMP TRUCK CEMENTER COB FAIRLIE

510645 HELPER JUSTIN BOWLER

BULK TRUCK

# 362 DRIVER WAYNE RUCKER

BULK TRUCK DRIVER

#

REMARKS: 2500 = 997.65 TOTAL 3990.60

DEPTH OF JOB 308 SERVICE

PUMP TRUCK CHARGE 1512.35

EXTRA FOOTAGE 107 @ 4.40 30.80

MILEAGE 7 @ 7.70 53.90

MANFOLD 200.61 @ 2.48 497.51

100.00 @ 2.75 275.00

2500 = 567.88 TOTAL 2271.52

CHARGE TO: White Exploration

STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

PLUG & FLOAT EQUIPMENT

To: Allied Oil & Gas Services, LLC.  
 You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME Mike Keln

SIGNATURE Mike Keln

SALES TAX (IF ANY) \_\_\_\_\_

TOTAL CHARGES 6262.12

DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS

NET 4696.59

# ALLIED OIL & GAS SERVICES, LLC 063055

Federal Tax ID. # 20-8651475

REMIT TO P.O. BOX 93999  
SOUTH LAKE, TEXAS 76092

SERVICE POINT:

Med Lodge KS

DATE <u>10/24/14</u>	SEC <u>1</u>	TWP. <u>31S</u>	RANGE <u>12W</u>	CALLLED OUT <u>1030 PM</u>	ON LOCATION <u>500 AM</u>	JOB START <u>830 AM</u>	JOB FINISH <u>930 AM</u>
LEASE <u>Chiswick Ranch</u>		WELL # <u>A-3</u>		LOCATION <u>281st 99 springs, town North on hwy 2</u>		COUNTY <u>Barber</u>	STATE <u>KS</u>
OLD OR (NEW) (Circle one)				OWNER <u>White Exploration</u>			

CONTRACTOR Pickrell

TYPE OF JOB Rotary Plug

HOLE SIZE 7 1/2 I.D. 4500

CASING SIZE 8 3/4 DEPTH 304

TUBING SIZE DEPTH

DRILL PIPE 4 1/2 DEPTH 660

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG.

PERFS.

DISPLACEMENT Fresh H<sub>2</sub>O / Mud

EQUIPMENT

PUMP TRUCK CEMENTER Jesseh Thimmesch

# 944/302 HELPER Robert Johnson

BULK TRUCK

# 381/252 DRIVER Kisdel Holiman

BULK TRUCK

# DRIVER

REMARKS:

AMOUNT ORDERED 170 SX 60:40:4% Gel

COMMON @

POZMIX @

GEL @

CHLORIDE @

ASC @

60:40:4% Gel @ 18.92 3216.40

HANDLING @

MILEAGE @

TOTAL 3216.40

DEPTH OF JOB 660

PUMP TRUCK CHARGE 1250.00

EXTRA FOOTAGE LV 7 @ 4.46 30.80

MILEAGE 7 @ 7.70 53.90

MANFOLD NA @

Handling 179.75 @ 2.48 445.78

Drayage 53.22 @ 2.75 146.36

CHARGE TO: White Exploration

STREET

CITY STATE ZIP

TOTAL 1926.84

FLUG & FLOAT EQUIPMENT

NA

SALES TAX (if Any)

TOTAL CHARGES 5143.24

DISCOUNT 3857.43 IF PAID IN 30 DAYS

PRINTED NAME Mike Kern

SIGNATURE Mike Kern

To: Allied Oil & Gas Services, LLC.

You are hereby requested to rent cementing equipment

and furnish cementer and helper(s) to assist owner or

contractor to do work as is listed. The above work was

done to satisfaction and supervision of owner agent or

contractor. I have read and understand the "GENERAL

TERMS AND CONDITIONS" listed on the reverse side.

# ALLIED OIL & GAS SERVICES, LLC

Federal Tax ID. # 20-8651475

REMIT TO P.O. BOX 93999  
SOUTHLAKE, TEXAS 76092

SERVICE POINT:

Med Lodge KS

DATE <u>10/24/14</u>	SEC <u>1</u>	TWP. <u>31S</u>	RANGE <u>12W</u>	CALLLED OUT <u>1030 PM</u>	ON LOCATION <u>500 AM</u>	JOB START <u>830 AM</u>	JOB FINISH <u>930 AM</u>
LEASE <u>Chiswick Ranch</u>		WELL # <u>A-3</u>		LOCATION <u>281st 99 springs, town North on street</u>		COUNTY <u>Barber</u>	STATE <u>KS</u>
OLD OR (NEW) (Circle one)				LOCATION <u>281st 99 springs, town North on street</u>			
<p><u>At town East on Ballacadia Rd, then 2 corners South into @ third corner</u></p>							

CONTRACTOR Pickrell OWNER White Exploration

TYPE OF JOB Rotary Plug

HOLE SIZE 7 1/2 I.D. 4500

CASING SIZE 8 3/4 DEPTH 304

TUBING SIZE DEPTH

DRILL PIPE 4 1/2 DEPTH 660

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG.

PERFS.

DISPLACEMENT Fresh H<sub>2</sub>O / Mud

EQUIPMENT

PUMP TRUCK CEMENTER Jason Thimmesch

# 944 / 302 HELPER Robert Johnson

BULK TRUCK

# 381 / 252 DRIVER Kisdel Holiman

BULK TRUCK

#

COMMON @

POZ MIX @

GEL @

CHLORIDE @

ASC @

60:40:4% Gel @ 18.92 3216.40

HANDLING @

MILEAGE @

TOTAL 3216.40

REMARKS: 2500 = 804.10

DEPTH OF JOB 660

PUMP TRUCK CHARGE 1250.00

EXTRA FOOTAGE LV 7 @ 4.46 30.80

MILEAGE 7 @ 7.70 53.90

MANFOLD NA @

Handling 179.75 cft @ 2.48 445.78

Drayage 53.22 tmi @ 2.75 146.36

TOTAL 1926.84

CHARGE TO: White Exploration

STREET

CITY STATE ZIP

PLUG & FLOAT EQUIPMENT

NA

TOTAL

SALES TAX (if Any)

TOTAL CHARGES 5143.24

DISCOUNT 3857.43 IF PAID IN 30 DAYS

To: Allied Oil & Gas Services, LLC.

You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME Mike Kern

SIGNATURE Mike Kern



**Scale 1:240 (5"=100') Imperial  
Measured Depth Log**

**Well Name:** Chain Ranch 'B' #3  
**Location:** 1-31S-12W  
**License Number:** API: 15-007-24237  
**Spud Date:** 10/17/14  
**Surface Coordinates:** 660' FNL, 1420' FEL

**Region:** Barber Co., KS  
**Drilling Completed:** 10/23/14

**Bottom Hole  
Coordinates:**  
**Ground Elevation (ft):** 1682                      **K.B. Elevation (ft):** 1692  
**Logged Interval (ft):** 3000              **To:** 4505              **Total Depth (ft):** 4500  
**Formation:** Kinderhook  
**Type of Drilling Fluid:** Chemical

Printed by MUD.LOG from WellSight Systems 1-800-447-1534 [www.WellSight.com](http://www.WellSight.com)

**OPERATOR**

**Company:** White Explortation, Inc.  
**Address:** 1635 N. Waterfront Pkwy, St. 100  
Wichita, KS 67206

**GEOLOGIST**

**Name:** Andrew White  
**Company:** White Explortation, Inc.  
**Address:** 1635 N. Waterfront Pkwy, St. 100  
Wichita, KS 67206

**Remarks**

**Due to negative sample shows, DST, and log analysis, the Chain Ranch 'A' #3 will be plugged and abandoned.**

**General Info**

**Drilling Contractor:** Pickrell Rig 1

**Logs:** Pioneer  
Compensated Density/Neutron, Dual Induction, Micro, Sonic

**Drilling Mud:** Mudco/Service Mud, Inc.

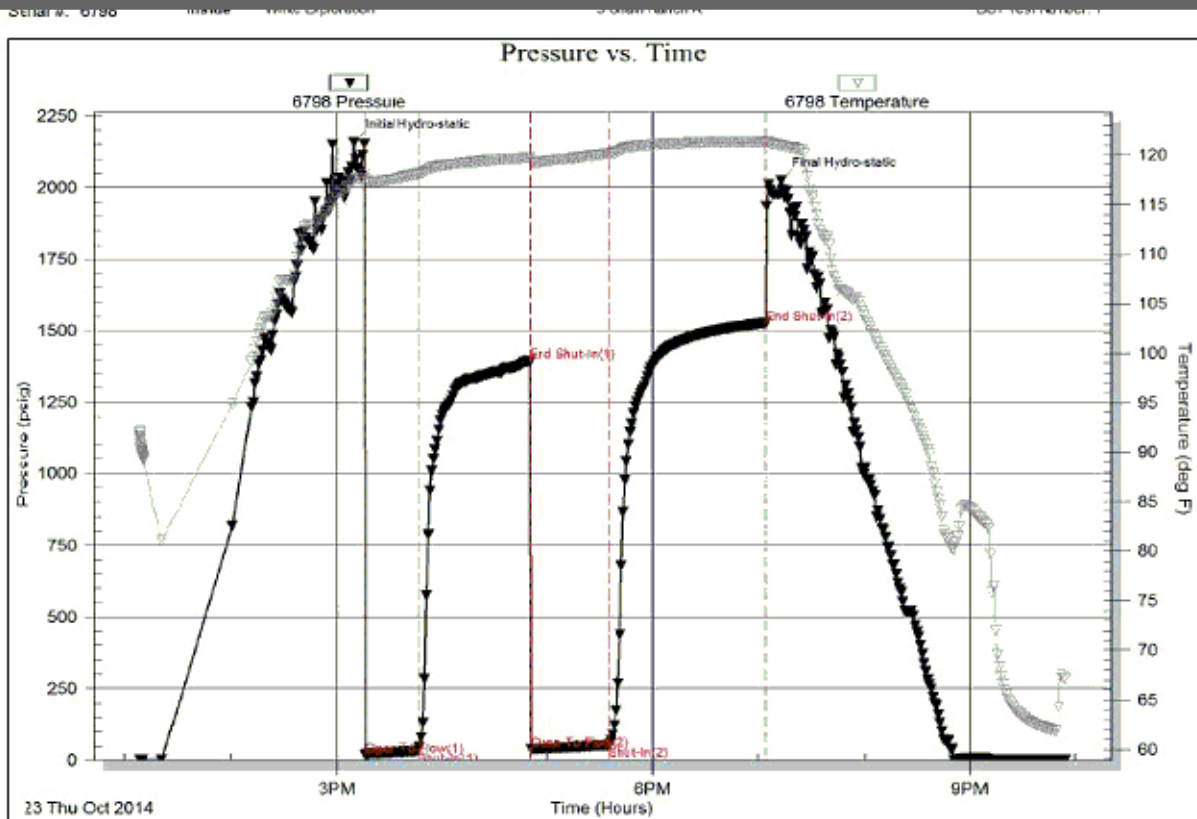
**Surveys:** 308'-3/4; 634'-1/4; 812'-1; 1317'-1; 2108'-1; 2929'-1; 4500' .75



## Daily Status

10/17/14: MIRT, spud @ 4:15pm. Drill 12-1/4" surface hole to 308', ran 7 joints new 8-5/8" 24# L.S. Surface Casing, cemented with 190 sacks Class A Cement with 2%gel, and 3% CC  
 10/18/14: Waiting on cement, drilled out @ 11:15am  
 10/19/14: Drilling @ 1580'  
 10/20/14: Drilling @ 2412'  
 10/21/14: Drilling @ 3278'  
 10/22/14: Drilling @ 4140'  
 10/23/14: Logging Well, run DST #1  
 10/24/14: Plugging Well, 170 sacks 60/40 Poz Mix, 4% gel; 50 sacks @ 660', 50 sacks @ 330', 20 sacks @ 60', 30 sacks in Mouse hole, 20 sacks in Rat hole

White Exploration, Inc.				White Exploration, Inc.		White Exploration, Inc.		R& B Oil	
Chain Ranch A #3				Chain Ranch B #1		Chain Ranch A #2		Chain Ranch #2	
Sec 1-31S-12W				Sec 1-31S-12W		Sec 1-31S-12W		Sec 31-30S-11W	
6600' FNL, 1420' FEL				475' FNL, 1916' FWL		2050' FNL, 330' FEL		660' FSL, 660' FWL	
KB: 1692				KB: 1655		KB: 1630		KB: 1758	
Sample	Log	Datum		Relationship		Relationship		Relationship	
Heebner	3602	3604	-1956	-7		+1		+12	
Brown Lime	3814	3814	-2166	-12		+1		+18	
Stark	4156	4160	-2512	-9		+5		+19	
Mississippian	4350	4364	-2716	-15		-13		+47	
Kinderhook	4426	4426	-2778	-2		+3		+24	



### ROCK TYPES

#### LITHOLOGY

- Anhy
- Bent
- Brec
- Cht
- Clyst
- Black shale
- Congl

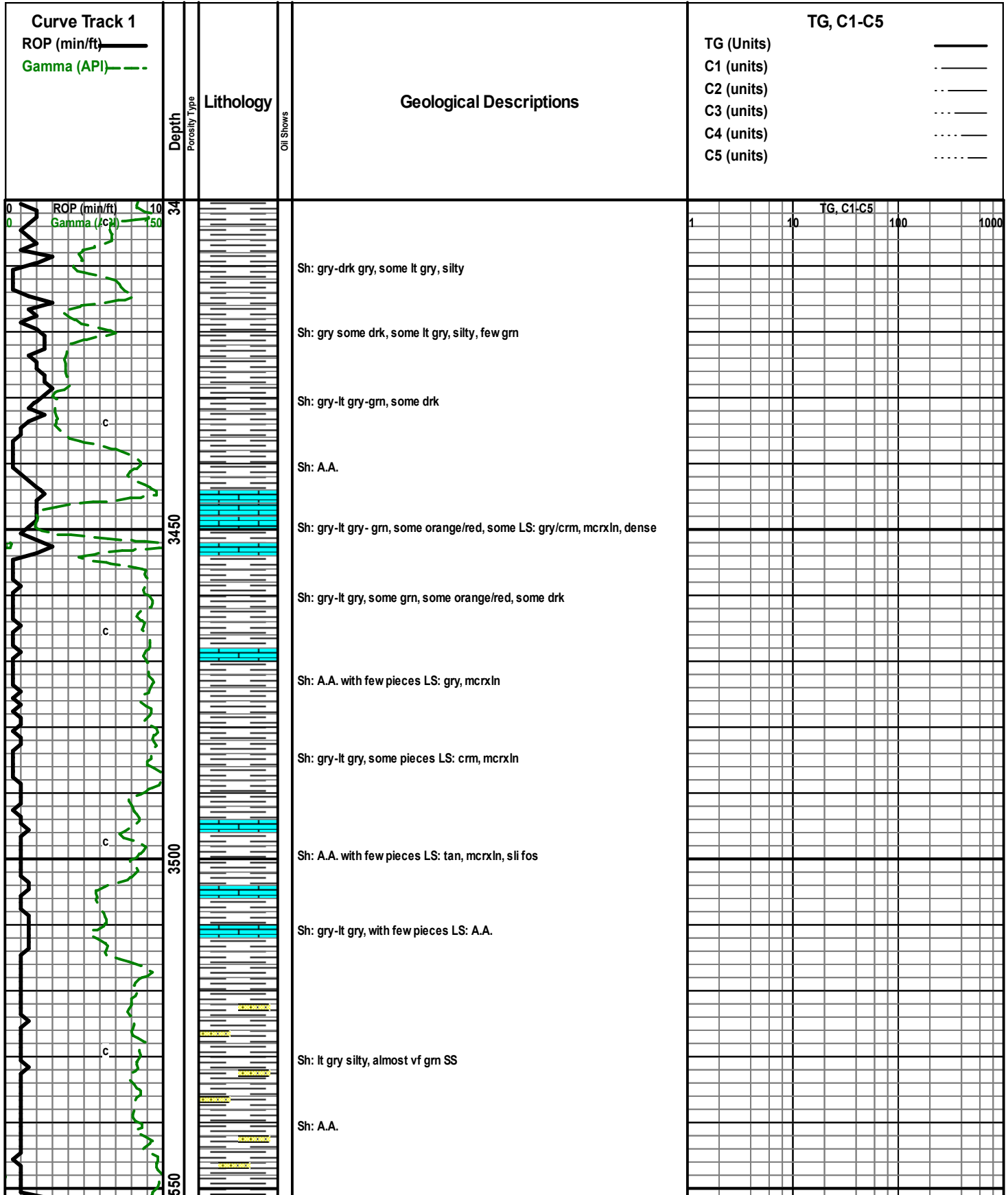
- Dol
- Gyp
- Igne
- Lmst
- Meta
- Mrlst
- Salt
- Shale

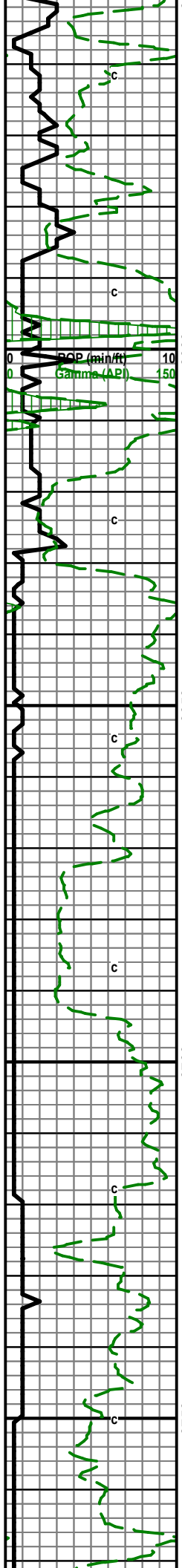
- Shcol
- Shgy
- Slstst
- Ss
- Till

- STRINGER**
- Anhy

- Arg
- Bent
- Coal
- Dol
- Gyp
- Ls
- Mrst
- Slststrg

- Ssstrg
- OIL SHOW**
- Even
  - Spotted
  - Ques
  - Dead





Sh: A.A. with few LS: tan, sli crm, mcrxln

Sh: gry, some dark, some lt gry silty, some LS: crm, mcrxln, sli fos

Sh: gry, some drk some lt gry silty, LS: crm-tan, mcrxln

Sh: gry, some lt gry silty, some drk

Sh: A.A. more dark, and some blk, sli gas, LS: tan, mcrxln, sli fos

Sh: gry, some grn, some blk, some LS: tan-crm, mcrxln, sli fos

Sh: gry, some dark, LS: crm, some tan, mcrxln

Poor Sample

Sh: gry some dark, some LS: tan-crm, mcrxln fos in part

Sh: gry, some lt gry, silty, few pieces LS: crm, mcrxln, sli fos

Poor Samples from here down

Sh: gry, some lt gry silty, some dark, LS: crm-tan, mcrxln, fos

Sh: gry, lt gry silty, some LS: A.A.

Sh: gry, SS: clear-gry, silty in part, vf-f grn

Sh: A.A. and SS: A.A. with some LS: crm, mcrxln, sli fos

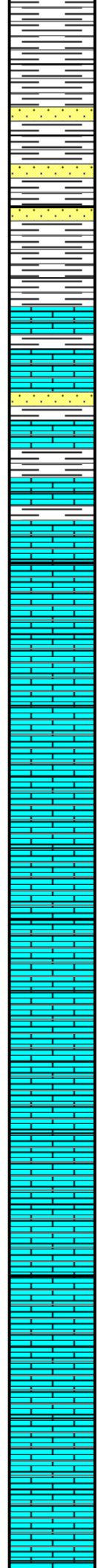
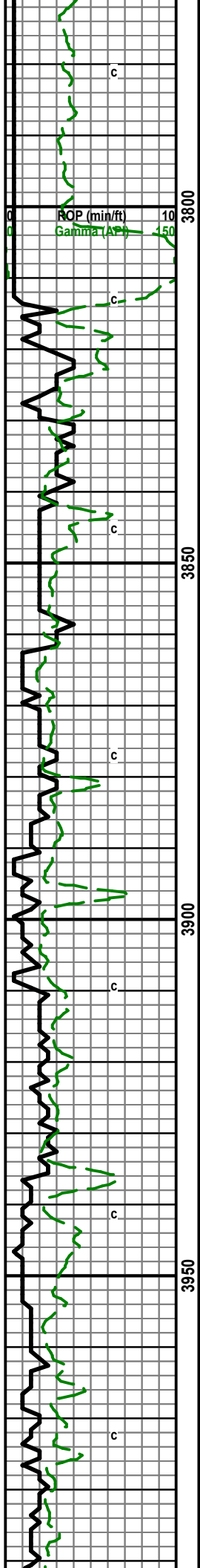
Poor Sample

Sh: gry, SS: clear, vf-f grn, sub ang, well sort some LS: crm-gry, mcrxln, fos

Sh and SS: A.A., LS: crm-gry, some tan, mcrxln, sli fos

Poor Sample

Heebner: 3602 (-1910)<sub>100</sub> 1000



Sh and SS: from above, LS: gry, some tan, mcrxln, fos

Same Sh and SS

Sh and SS, some LS: tan-brn, some crm, mcrxln, few fxln, fos

Poor Sample

Sh: and SS, LS crm, some tan, mcrxln, sli cherty, sli fos

LS: crm-gry, some tan, mcrxln few fxln, sli cherty, sli fos (Sh: gry, and SS: are still in samples)

LS: crm, sli tan, sli gry, mcr-fxln, fos

LS: crm-gry, mcr some fxln, sli cherty, fos

LS: tan, sli gry, mcrxln, sli cherty, fos

LS: tan/crm, some gry, mcrxln, sli chalky, sli fos

LS: crm, sli gry, some tan, mcr-fxln, fos

LS: crm/gry-tan, mcrxln, some f, sli cherty, sli fos

LS: tan, sli crm, mcrxln, sli chalky

LS: A.A. with brn, mcrxln, fos

LS: tan-brn, mcrxln, fos, sli chalky

LS: crm-tan, sli brn, mcr-fxln, sli chalky, sli fos

LS: tan, some crm/gry, mcrxln, sli fos, some chalk

LS: tan, fxln, some mcrxln, sli fos, sli cherty, sli chalky

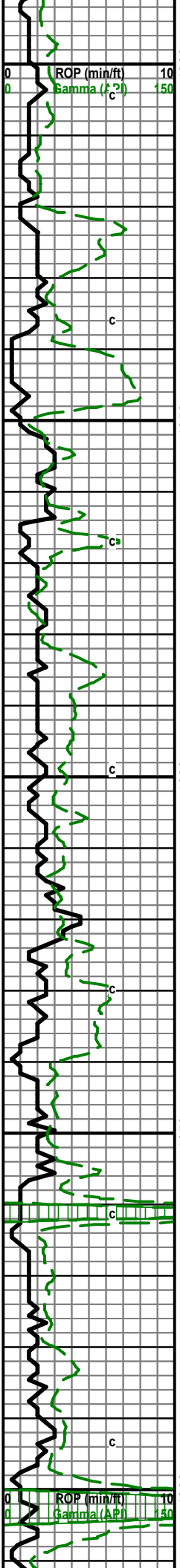
LS: crm/gry and some tan, fxln, some mcr, sli fos, sli chalk

LS: crm/gry, mcr-fxln, sli fos

LS: crm/gry, mcrxln, sli fos, sli chalky

TG, C1-C5  
1 10 100 1000

**Brown Lime: 3814 (-2122)**



4000  
4050  
4100  
4150  
4200

LS: crm/gry, mcrxln, sli fos, sli chalky

LS: gry, mcrxln, sli chalky, few pieces chert

LS: gry-crm, mcrxln, few f, sli fos, some chalk

LS: gry/crm-tan, mcr-fxln, sli fos, some chert

LS: tan, some gry-crm, mcrxln

LS: gry-crm, some tan, fxln, some mcr, chalky, sli fos

LS: crm, some tan/bm, mcrxln, few f, sli fos

LS: crm-gry, mcr-fxln, sli chalky, sli fos

LS: crm-tan, some gry, mcr-fxln, sli chalky, one piece ool

LS: gry-crm, some bm, mcrxln, some f, sli chalky, sli fos

LS: crm-gry, mcrxln, sli chalky, few pieces chert

LS: A.A.

LS: crm, some gry, mcrxln, some fxln, sli fos, few pieces chert, some chalk

LS: gry-crm, mcr-fxln, sli chalky, fos, some ool

LS: gry-crm, some tan, mcrxln, sli fos

LS: crm-tan, mcrxln, some f, sli chalk, sli fos

LS: tan-crm, f-mcrxln, sli chalky sli fos, few friable pieces with questionable dead oil show, some Sh: drk gry-blck

LS: crm, sli gry, mcrxln, sli chalky, sli fos

LS: tan-crm, some gry, mcrxln few fxln, sli chalky, sli fos

LS: A.A.

Sh: drk gry-blck, LS: tan, sli crm, mcrxln, sli chalky, sli fos, ques odor

LS: tan-crm, some gry, fxln, some mcr, few pieces ool, few fos,

TG, C1-C5  
1 10 100 1000

**Stark: 4156 (-2464)**

Mudco mdck  
Wt: 9.4 Vis: 71  
pH: 10.0 Fil: 10.8  
LCM: 0

DST #1 4190-4220' (Straddle)

30-60-45-90-C5

IF: Weak blow, built to 2"

FF: Weak blow, built to 1"

Rec: 65' MCW (90% W, 10% M)

1 10 100 1000

IFP: 19-33 ISIP: 1395  
FFP: 39-53 FSIP: 1527  
Bottom perms were plugged,  
straddle successful

questionable odor, no show

LS: gry-crm, mcrxln, some ool, Sh: gry

LS: gry, some crm, mcrxln, some f, few ool, Sh: gry

LS: crm-gry, some tan, mcrxln, few f, few pieces ool, some Sh: gry-lt gry

Sh: gry-lt gry, some drk, some LS: crm, mcrxln, sli fos, few ool

Sh: gry-drk gry, some lt gry, blk, some LS: crm-tan, mcrxln, sli fos, sli chert

Sh: gry-lt gry, some dark, LS: gry, sli crm, mcrxln, sli fos

Sh: lt gry, some gry, LS: crm, sli tan, mcrxln, sli fos, sli chert

Sh: A.A. LS: gry-crm, mcrxln, some f, fos

LS: gry, mcrxln, sli fos, some Sh: gry-lt gry with some drk

LS: gry-crm, mcrxln sli fos

Sh: gry, some lt, some drk-blck, some LS: crm, sli gry, mcrxln, sli cherty

Sh: A.A. with some gm, LS: crm-gry, mcrxln, sli cherty

LS: and Sh: A.A. with some Chert: trip, pos sli show gas, very faint odor, no fluor

Sample same A.A. with some vrr show oil in chert, sample contains a lot of red shale and gry-drk gry shale

Chert: white, trip, sli odor, sli show gas, dead oil stain, some tan, with no stain or show

Chert: A.A. with more fresh no show no stain, sample contains a good amount of Sh and LS: crm-tan, mcrxln, sli fos

LS: crm-tan, mcr-fxln, sli fos, some Sh: gry-lt gry, some drk

LS: crm-tan-gry, mcrxln-fxln, sli fos, some Sh: gry-drk gry,

Sample mostly LS: A.A. with some Sh: gry-drk gry, some lt gry

Miss: 4350 (-2658)

CFS 60 min

CFS 60 min

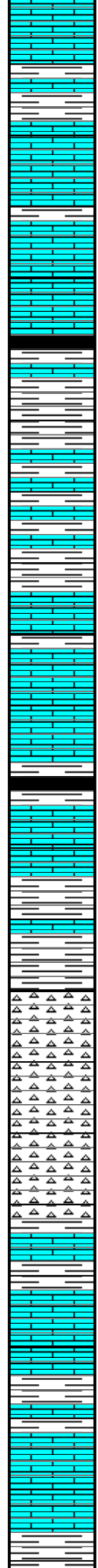
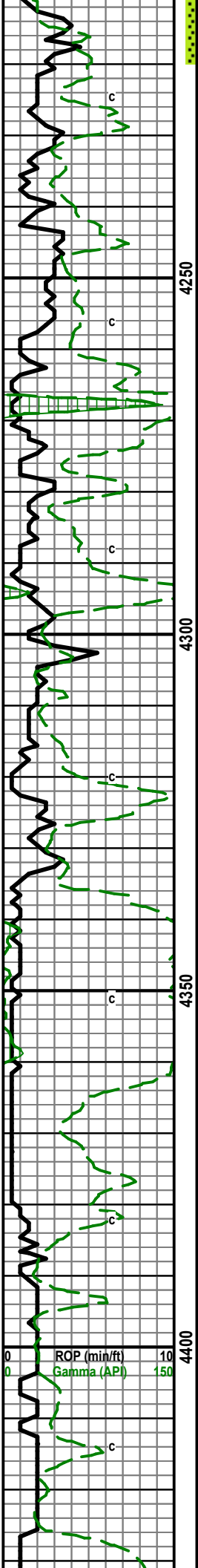
Work on Pump

CFS 60 min

TG. C1-C5

1 10 100 1000

Kinderhook: 4426 (-2734)



questionable odor, no show

LS: gry-crm, mcrxln, some ool, Sh: gry

LS: gry, some crm, mcrxln, some f, few ool, Sh: gry

LS: crm-gry, some tan, mcrxln, few f, few pieces ool, some Sh: gry-lt gry

Sh: gry-lt gry, some drk, some LS: crm, mcrxln, sli fos, few ool

Sh: gry-drk gry, some lt gry, blk, some LS: crm-tan, mcrxln, sli fos, sli chert

Sh: gry-lt gry, some dark, LS: gry, sli crm, mcrxln, sli fos

Sh: lt gry, some gry, LS: crm, sli tan, mcrxln, sli fos, sli chert

Sh: A.A. LS: gry-crm, mcrxln, some f, fos

LS: gry, mcrxln, sli fos, some Sh: gry-lt gry with some drk

LS: gry-crm, mcrxln sli fos

Sh: gry, some lt, some drk-blck, some LS: crm, sli gry, mcrxln, sli cherty

Sh: A.A. with some gm, LS: crm-gry, mcrxln, sli cherty

LS: and Sh: A.A. with some Chert: trip, pos sli show gas, very faint odor, no fluor

Sample same A.A. with some vrr show oil in chert, sample contains a lot of red shale and gry-drk gry shale

Chert: white, trip, sli odor, sli show gas, dead oil stain, some tan, with no stain or show

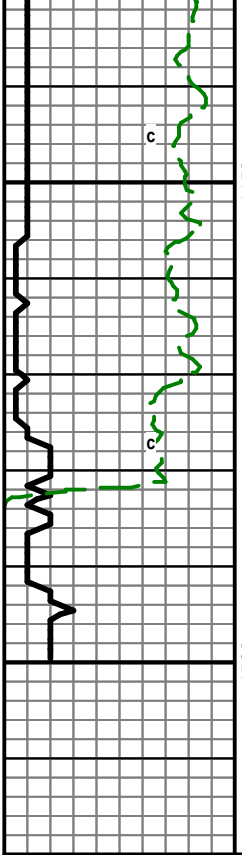
Chert: A.A. with more fresh no show no stain, sample contains a good amount of Sh and LS: crm-tan, mcrxln, sli fos

LS: crm-tan, mcr-fxln, sli fos, some Sh: gry-lt gry, some drk

LS: crm-tan-gry, mcrxln-fxln, sli fos, some Sh: gry-drk gry,

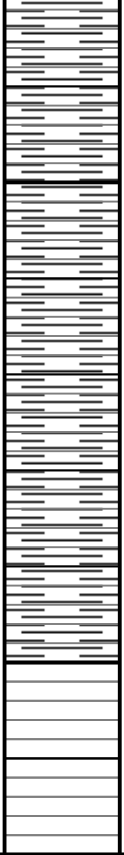
Sample mostly LS: A.A. with some Sh: gry-drk gry, some lt gry

IFP: 19-33 ISIP: 1395 FFP: 39-53 FSIP: 1527 Bottom perms were plugged, straddle successful			
questionable odor, no show			
LS: gry-crm, mcrxln, some ool, Sh: gry			
LS: gry, some crm, mcrxln, some f, few ool, Sh: gry			
LS: crm-gry, some tan, mcrxln, few f, few pieces ool, some Sh: gry-lt gry			
Sh: gry-lt gry, some drk, some LS: crm, mcrxln, sli fos, few ool			
Sh: gry-drk gry, some lt gry, blk, some LS: crm-tan, mcrxln, sli fos, sli chert			
Sh: gry-lt gry, some dark, LS: gry, sli crm, mcrxln, sli fos			
Sh: lt gry, some gry, LS: crm, sli tan, mcrxln, sli fos, sli chert			
Sh: A.A. LS: gry-crm, mcrxln, some f, fos			
LS: gry, mcrxln, sli fos, some Sh: gry-lt gry with some drk			
LS: gry-crm, mcrxln sli fos			
Sh: gry, some lt, some drk-blck, some LS: crm, sli gry, mcrxln, sli cherty			
Sh: A.A. with some gm, LS: crm-gry, mcrxln, sli cherty			
LS: and Sh: A.A. with some Chert: trip, pos sli show gas, very faint odor, no fluor			
Sample same A.A. with some vrr show oil in chert, sample contains a lot of red shale and gry-drk gry shale			
Chert: white, trip, sli odor, sli show gas, dead oil stain, some tan, with no stain or show			
Chert: A.A. with more fresh no show no stain, sample contains a good amount of Sh and LS: crm-tan, mcrxln, sli fos			
LS: crm-tan, mcr-fxln, sli fos, some Sh: gry-lt gry, some drk			
LS: crm-tan-gry, mcrxln-fxln, sli fos, some Sh: gry-drk gry,			
Sample mostly LS: A.A. with some Sh: gry-drk gry, some lt gry			
Miss: 4350 (-2658)			
CFS 60 min			
CFS 60 min			
Work on Pump			
CFS 60 min			
TG. C1-C5			
1 10 100 1000			
Kinderhook: 4426 (-2734)			



4450

4500

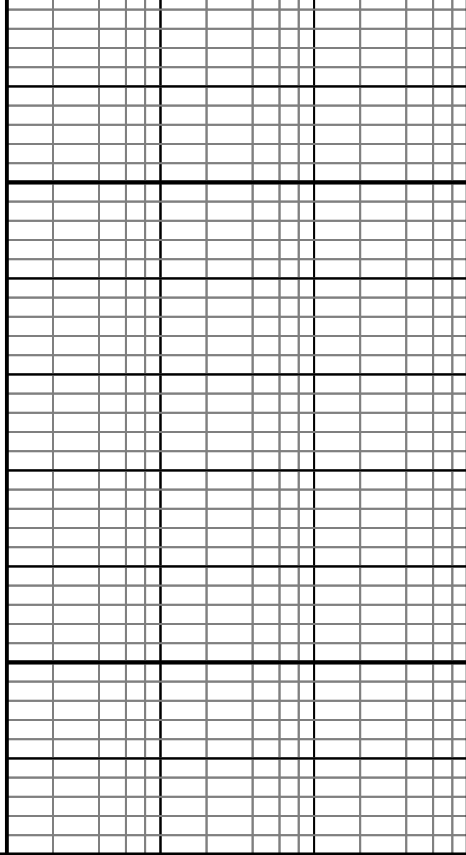


Same A.A.

Sh: gry

RTD: 4500

LTD: 4505





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

White Exploration  
 1635 N Waterfront Pkwy Ste 100  
 Wichita, KS 67206  
 ATTN: Andy White

**1-31S-12WBarber**  
**3 Chain Ranch A**  
 Job Ticket: 57773 **DST#: 1**  
 Test Start: 2014.10.23 @ 13:08:28

## GENERAL INFORMATION:

Formation: **Hertha**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 15:15:43  
 Time Test Ended: 21:54:28  
 Interval: **4190.00 ft (KB) To 4220.00 ft (KB) (TVD)**  
 Total Depth: 4500.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Straddle (Initial)  
 Tester: Leal Cason  
 Unit No: 74  
 Reference Elevations: 1692.00 ft (KB)  
 1682.00 ft (CF)  
 KB to GR/CF: 10.00 ft

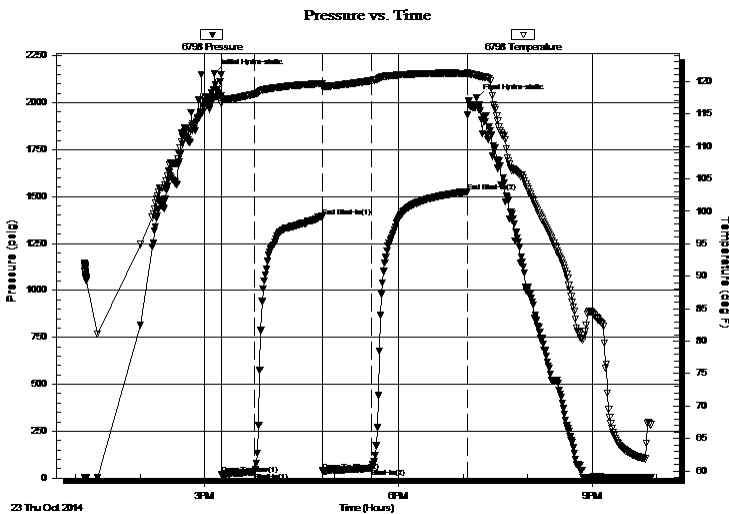
## Serial #: 6798

Inside

Press @ Run Depth: 53.39 psig @ 4191.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2014.10.23 End Date: 2014.10.23 Last Calib.: 2014.10.23  
 Start Time: 13:08:29 End Time: 21:54:28 Time On Btm: 2014.10.23 @ 15:09:13  
 Time Off Btm: 2014.10.23 @ 19:12:13

TEST COMMENT: IF: Weak Blow , Built to 2 inches  
 IS: No Blow Back  
 FF: Weak Blow , Built to 1 inch  
 FS: No Blow Back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2156.90	117.48	Initial Hydro-static
7	18.63	116.64	Open To Flow (1)
38	33.19	118.06	Shut-In(1)
100	1394.99	119.68	End Shut-In(1)
101	38.71	119.14	Open To Flow (2)
146	53.39	120.12	Shut-In(2)
235	1527.16	121.23	End Shut-In(2)
243	2024.26	120.97	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
65.00	MCW 10%M 90%W	0.91

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

White Exploration  
1635 N Waterfront Pkwy Ste 100  
Wichita, KS 67206  
ATTN: Andy White

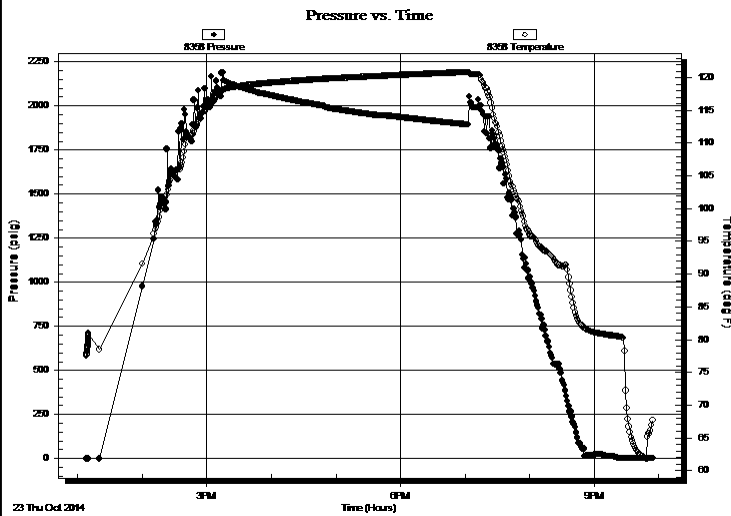
**1-31S-12WBarber**  
**3 Chain Ranch A**  
Job Ticket: 57773 **DST#: 1**  
Test Start: 2014.10.23 @ 13:08:28

## GENERAL INFORMATION:

Formation: <b>Hertha</b>		Test Type: Conventional Straddle (Initial)
Deviated: No Whipstock: ft (KB)		Tester: Leal Cason
Time Tool Opened: 15:15:43		Unit No: 74
Time Test Ended: 21:54:28		
<b>Interval: 4190.00 ft (KB) To 4220.00 ft (KB) (TVD)</b>		Reference Elevations: 1692.00 ft (KB)
Total Depth: 4500.00 ft (KB) (TVD)		1682.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Good		KB to GR/CF: 10.00 ft

<b>Serial #: 8358</b>	<b>Below (Straddle)</b>				
Press @ RunDepth: psig @ 4242.00 ft (KB)		Capacity: 8000.00 psig			
Start Date: 2014.10.23	End Date: 2014.10.23	Last Calib.: 2014.10.23			
Start Time: 13:08:29	End Time: 21:54:13	Time On Btm:			
		Time Off Btm:			

TEST COMMENT: IF: Weak Blow , Built to 2 inches  
IS: No Blow Back  
FF: Weak Blow , Built to 1 inch  
FS: No Blow Back



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
65.00	MCW 10%M 90%W	0.91

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

White Exploration  
1635 N Waterfront Pkwy Ste 100  
Wichita, KS 67206  
ATTN: Andy White

**1-31S-12WBarber**  
**3 Chain Ranch A**  
Job Ticket: 57773      **DST#: 1**  
Test Start: 2014.10.23 @ 13:08:28

## 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:	85000 ppm
Viscosity: 71.00 sec/qt	Cushion Volume: bbl		
Water Loss: 10.79 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 6000.00 ppm			
Filter Cake: inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
65.00	MCW 10%M 90%W	0.912

Total Length: 65.00 ft      Total Volume: 0.912 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments: RW w as .1 @ 65 degrees

