

Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

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

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

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

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

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

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

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

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

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

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

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

Designate Type of Completion:

New Well  Re-Entry  Workover

Oil  WSW  SWD

Gas  DH  EOR

OG  GSW

CM (Coal Bed Methane)

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

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

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

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

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

Deepening  Re-perf.  Conv. to EOR  Conv. to SWD

Plug Back  Liner  Conv. to GSW  Conv. to Producer

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

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

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

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

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

Spud Date or Date Reached TD Completion Date or Recompletion Date

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

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

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

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

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

Footages Calculated from Nearest Outside Section Corner:

NE  NW  SE  SW

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

Datum:  NAD27  NAD83  WGS84

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

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

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

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

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

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

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

Multiple Stage Cementing Collar Used?  Yes  No

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

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

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

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

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

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

Location of fluid disposal if hauled offsite:

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

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

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

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

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

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

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

Wireline Log Received  Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

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

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

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

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

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

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

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

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

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

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

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	White Exploration, Inc.
Well Name	JEWELL UNIT 1
Doc ID	1461396

All Electric Logs Run

Compensated Density/Neutron
Dual Induction Log
Sonic Log
Micro Log





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

**Well Name:** Jewel Unit #1  
**API:** 15-187-21343  
**Location:** 6-29S-40W  
**License Number:**  
**Spud Date:** 03/06/19  
**Surface Coordinates:** 1235' FNL, 2640' FEL

**Region:** Stanton Co., KS  
**Drilling Completed:** 03/17/19

**Bottom Hole  
Coordinates:**  
**Ground Elevation (ft):** 3319                      **K.B. Elevation (ft):** 3330  
**Logged Interval (ft):** 4200              **To:** 5700              **Total Depth (ft):** 5700  
**Formation:** Mississippian  
**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 Exploration, Inc.  
**Address:** 1635 N. Waterfront Pkwy  
Ste. 100  
Wichita, KS, 67206

**GEOLOGIST**

**Name:** Andrew White  
**Company:** White Exploration, Inc.  
**Address:**

**Remarks**

**Due to possitive DST results and log analysis, the decision was made to run casing on the Jewell Unit #1**

**General Info**

**Drilling Contractor:** Murfin Rig 22

**Logs:** ELI Wireline Services  
**Compensated Density/Neutron, Dual, Micro, Sonic**

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

**DST:** Trilobite

**Surveys:** 500'-.1, 1116'-.3, 1500'-.2, 1734'-.6, 4018'-.4, 4858'-.1, 5470'-.5, 5700'-.1.5

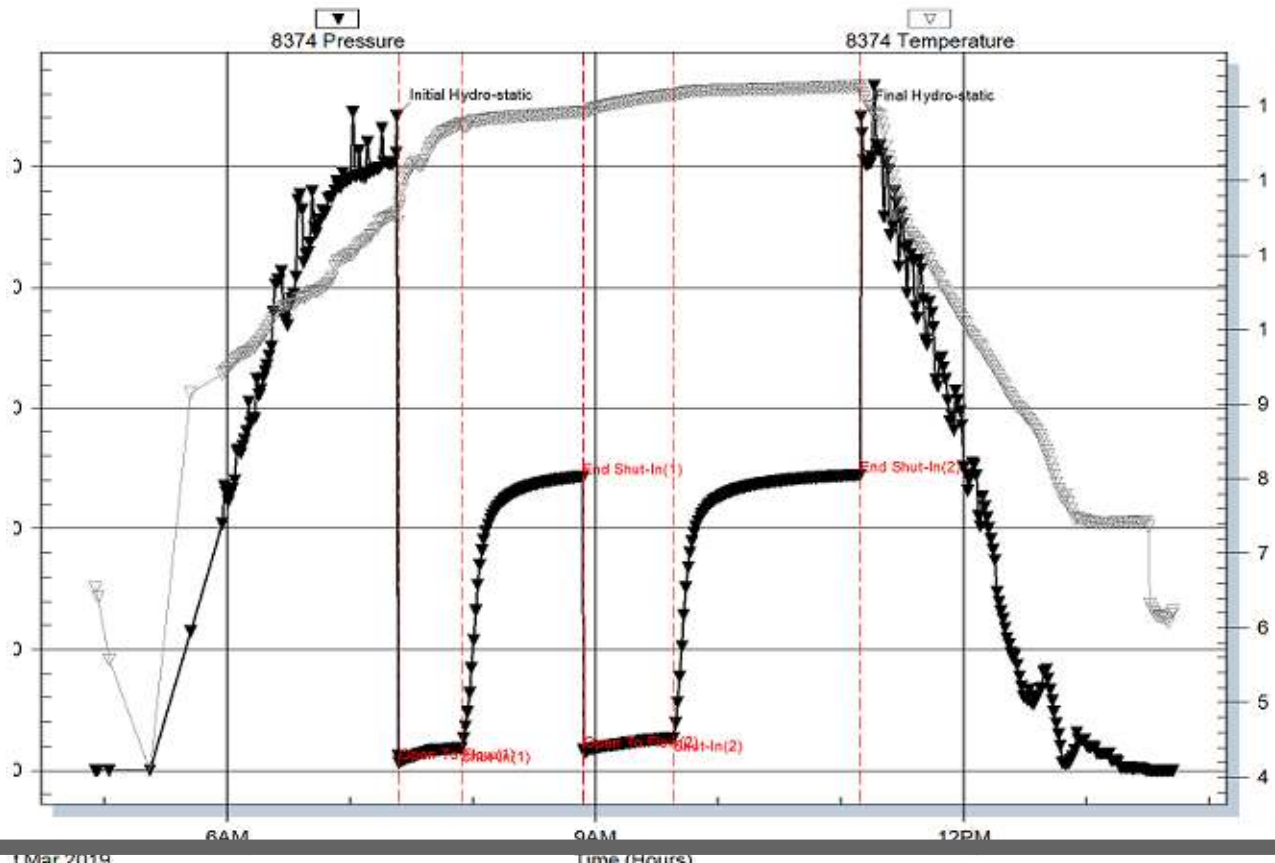
## Daily Status

03/06/19: Spud @ 9:45 a.m.  
 03/07/19: Drilling ahead @ 1285'  
 03/08/19: Lost Returns, ran 41 jts 8-5/8" 24# casing @ 1734, 450 sacks Multi-Density Cement with 3% CC and 1/2# Flo-Seal and 200 sacks Common w/ 2% gel, 3% CC and 1/2# Flo-Seal  
 03/09/19: waiting on cement, topping off  
 03/10/19: Drilling ahead @ 1960'  
 03/11/19: Drilling ahead @ 2892'  
 03/12/19: Drilling ahead @ 3860'  
 03/13/19: Drilling ahead @ 4751'  
 03/14/19: Drilling ahead @ 4947'  
 03/15/19: Drilling ahead @ 5198'  
 03/16/19: Running DST #1 @ 5470'  
 03/17/19: Tripping out for logs

White Ex				White		Berexco		White		Ste bar	
Jewel Unit				Plummer Unit		RA 1-6		Arnold #2		Plummer 1-31	
6-29S-40W				6-29S-41W		6-29S-40W		6-29S-40W		31-28S-40W	
1235' FNL, 2640' FEL				225' FNL, 3810' FEL		800' FSL, 2975' FEL		1285' FSL, 2240' FEL		1310' FSL, 1300' FEL	
KB: 3330				KB: 3330		KB: 3330		KB: 3325		KB: 3321	
Sample	Log	Datum	Relationship		Relationship		Relationship		Relationship		
Heebner		3695	-365	-8	+4	-5	+2				
Lansing		3755	-425	-9	+12	-4	-4				
Cherokee	4545	4549	-1219	-8	-5	-9	+3				
Morrow	5025	5030	-1700	-5	-9	-15	-3				
LMM	5361	5348	-2018	-6	-4	-9	-14				
Miss	5560	5535	-2205	+11	6	-22	+30				

8374      Inside      White Exploration      Jewel Unit #1      DST Test Number: 1

### Pressure vs. Time



### ROCK TYPES

### LITHOLOGY

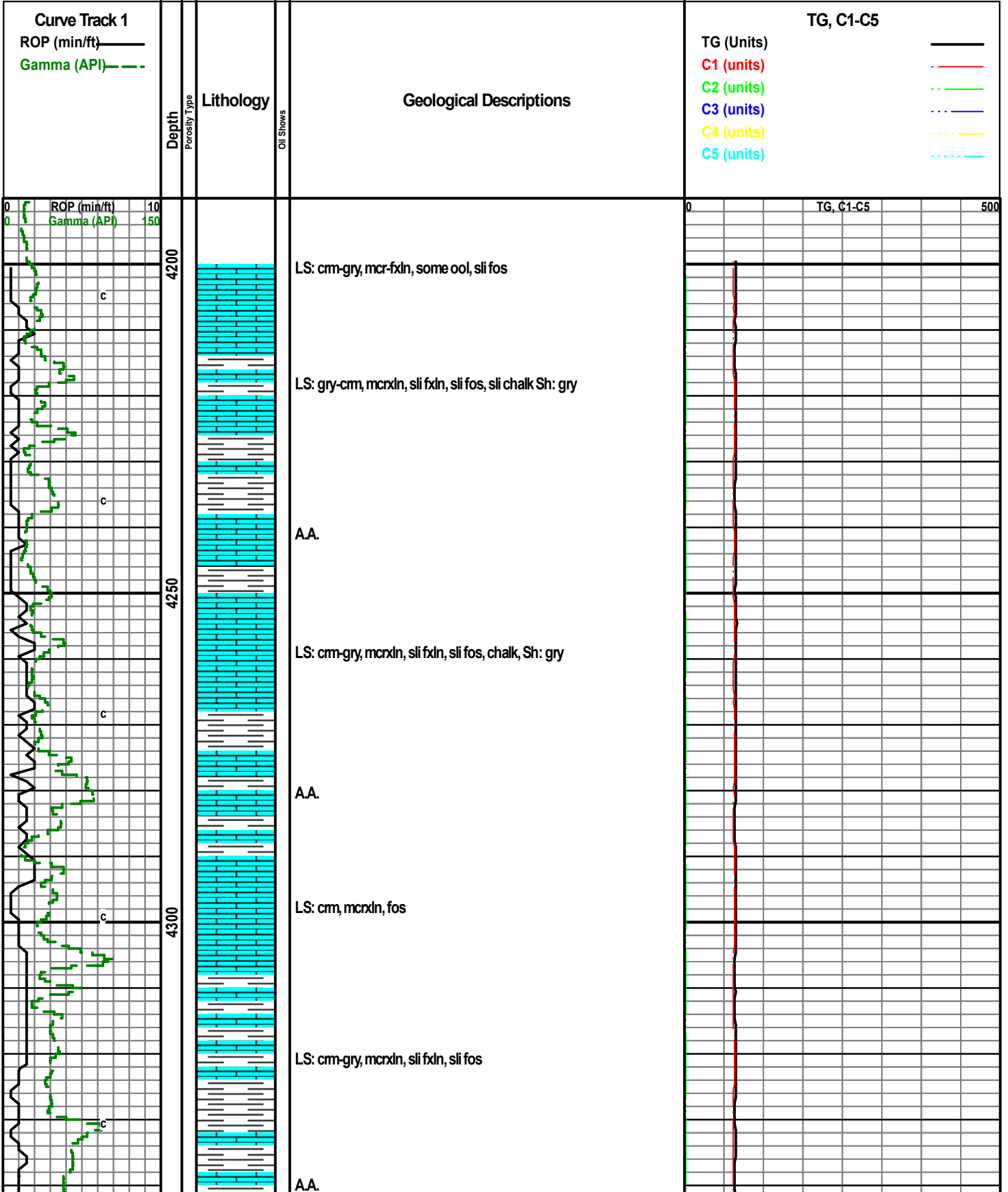
- Anhy
- Bent
- Brec
- Cht
- Clyst
- Coal
- Congl

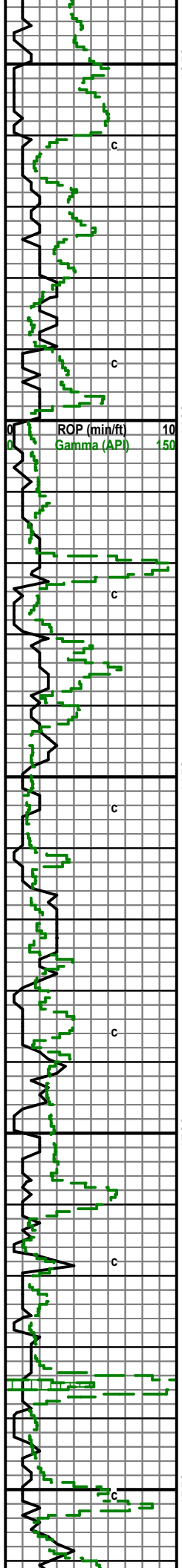
- Dol
- Gyp
- Igne
- Lmst
- Meta
- Mrlst
- Salt
- Shale

- Shcol
  - Shgy
  - Slstst
  - Ss
  - Till
- STRINGER**
- Anhy

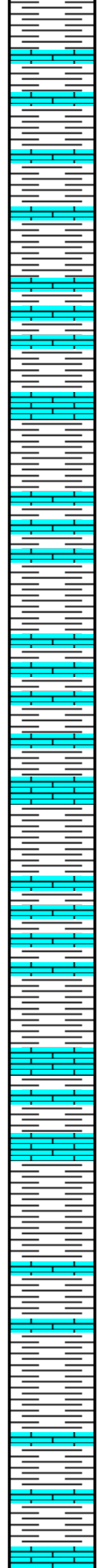
- Arg
- Bent
- Coal
- Dol
- Gyp
- Ls
- Mrst
- Slststrg

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





4350  
4400  
4450  
4500  
4550



A.A.

LS: cm, mcrxn, chalk

LS: cm, sli tan, mcrxn, chalk, Sh: gry-lt gry

A.A.

LS: cm, sli tan, mcrxn, sli fxn, chalk, Sh: gry

A.A. (poor sample)

LS: cm-gry, mcr-fxn, sli fos, chalk, Sh: gry

LS: tan-cm, sli gry, mcrxn, sli fxn, sli fos, few ool Sh: gry

Sh: gry-drk gry, LS: gry, mcrxn

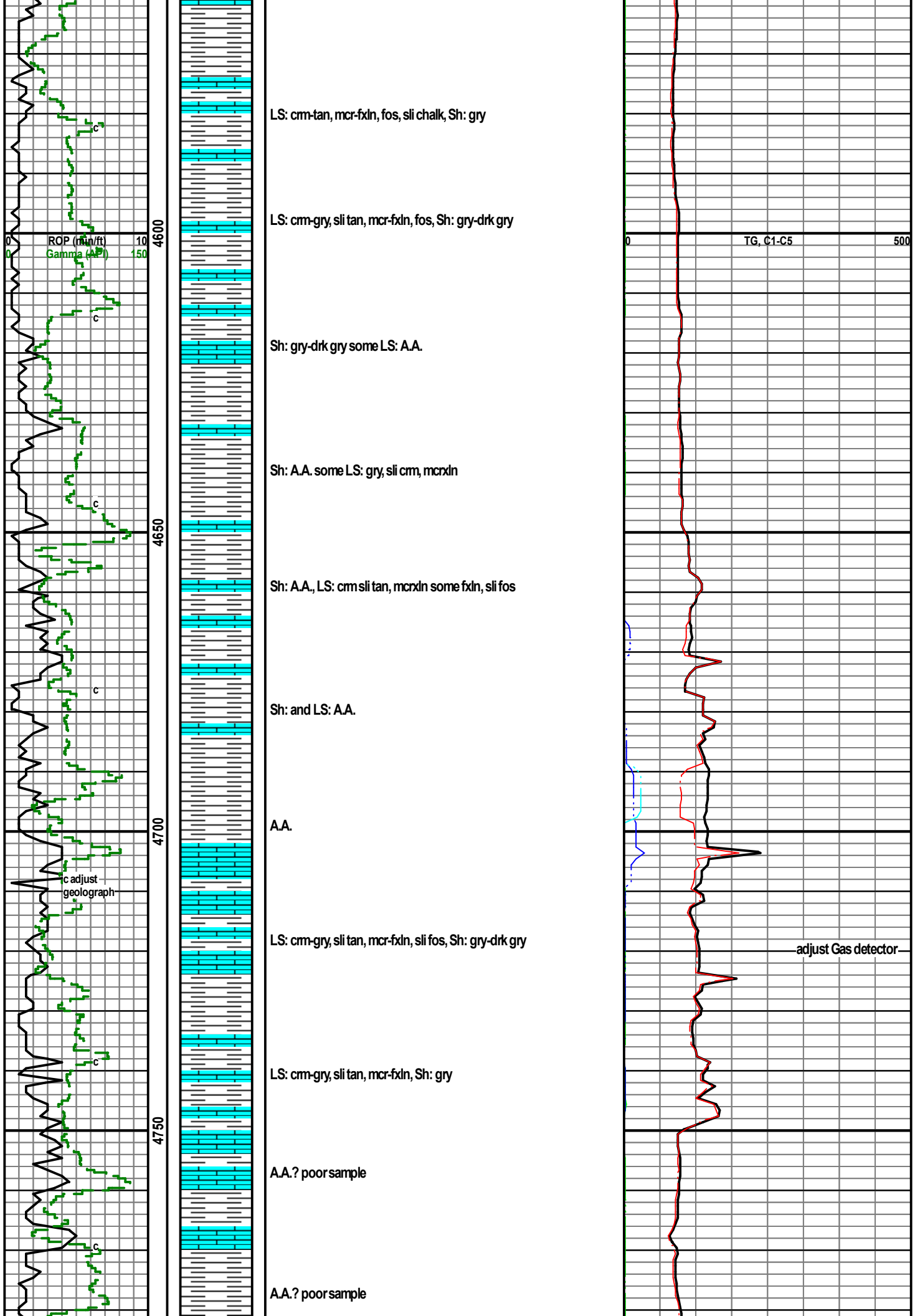
Sh: A.A. LS: gry-cm, sli tan, mcrxn

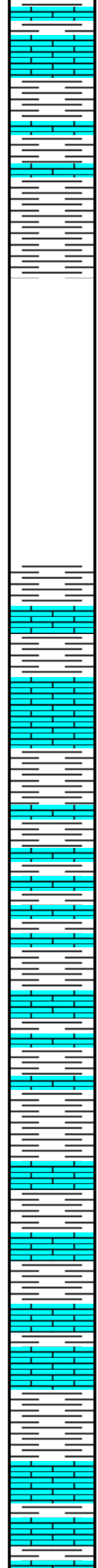
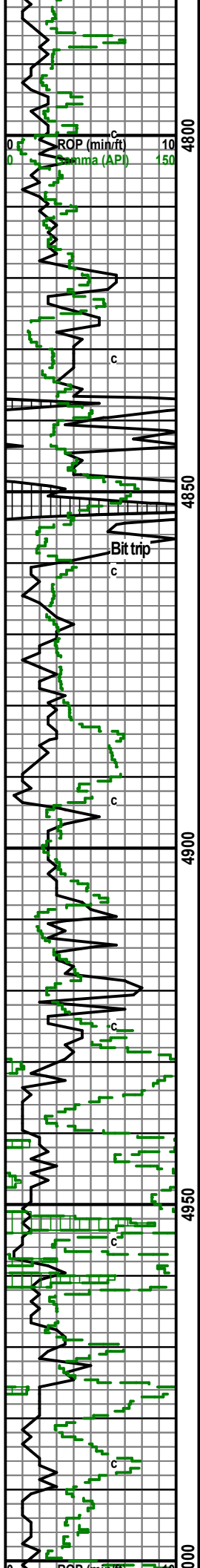
LS: cm-gry, mcrxn, sli fxn, sli fos, Sh: gry

0 TG, C1-C5 500

Cherokee Shale: 4545 (-1215)







LS: cm-gry, sli tan, mcr-fxl, sli fos, sli chalk, Sh: gry-drk gry (poor sample)

Poor sample

LS: gry, sli cm, mcrxl, Sh: gry-drk gry

LS: gry-cm, mcrxl, sli fos, Sh: gry-drk gry

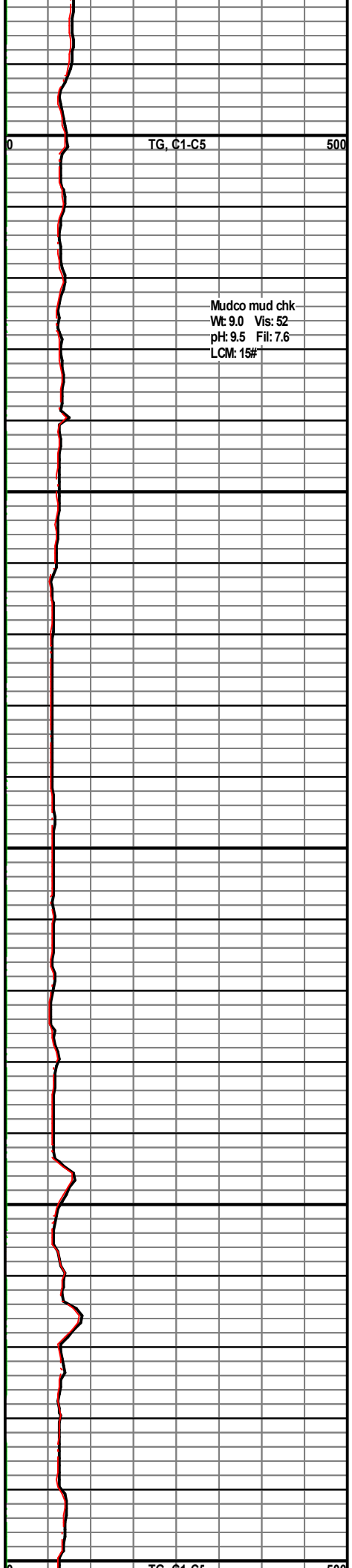
LS and Sh: A.A.

Sh: gry-drk gry-lt gry-bck, some LS: gry, sli cm, mcrxl

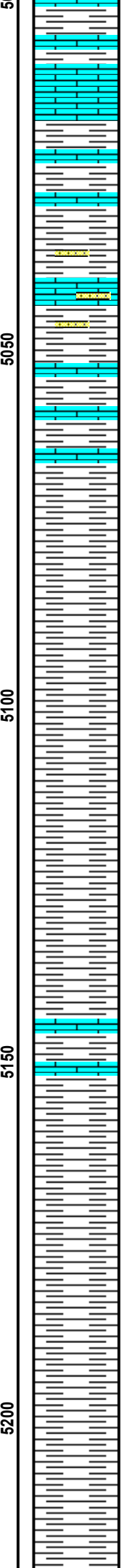
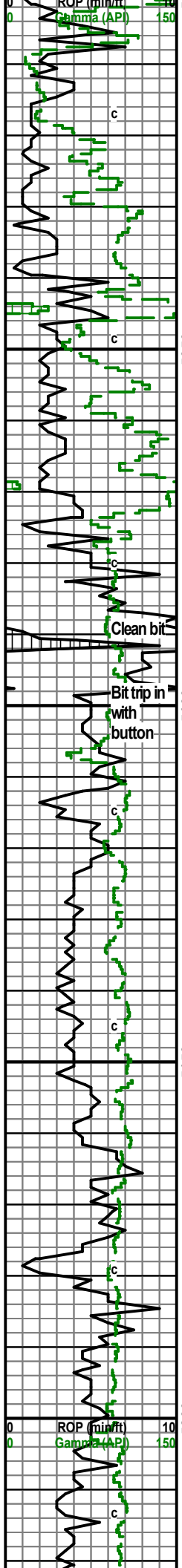
LS: cm-gry, mcrxl, some fxln, sli fos, some sli sandy, Sh: A.A.

LS: gry-cm mcrxl, some fxln, few sli sandy, Sh: gry-lt gry, some drk gry

A.A.



Mudco mud chk  
 Wt: 9.0 Vis: 52  
 pH: 9.5 Fil: 7.6  
 LCM: 15#



LS: gry-cm f-mcrxn, sli sandy, Sh: gry

Sh: gry-drk gry, some LS: A.A. few pieces SS: f-vfgm, sub md, well sort, limey

Sh: gry-drk gry, some LS: gry-cm, mcr-fxn, sli sandy

Sh: gry

Sh: gry-drk gry

Sh: A.A. flush of LS: gry-cm, mcrxn

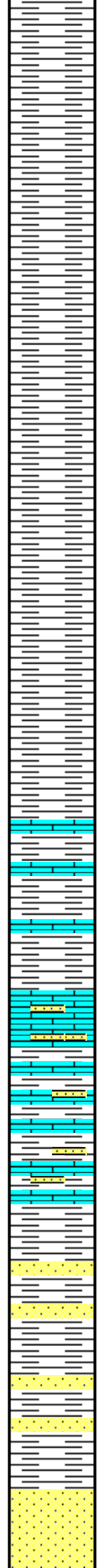
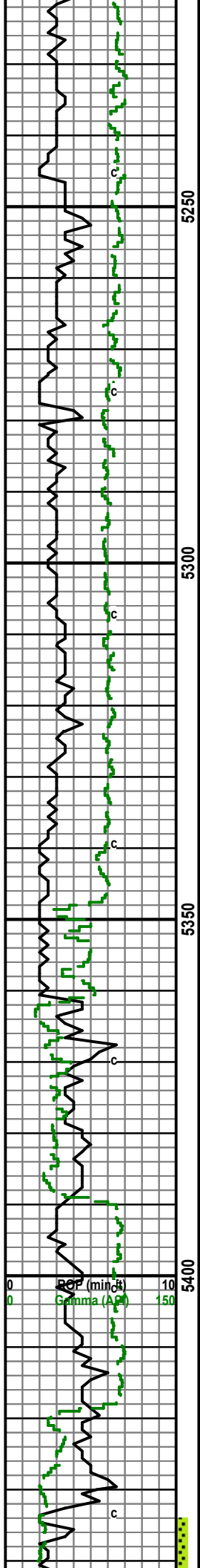
Sh: gry-drk gry, some lt gry

Sh: A.A.

Morrow Shale: 5025 (-1695)

Mudco mdchk  
 Wt: 9.15 Vis: 59  
 pH: 9.5 Fil: 6.0  
 LCM: 16#

TG, C1-C5 500



Sh: gry-lt gry-drk gry

Sh: A.A.

Sh: gry-lt gry

Sh: A.A.

Sh: A.A. with some LS: cm, mcrxn, sli sandy

A.A. with flush of Sh: rd/bwn

Sh: gry-lt gry, LS: cm, m-fxn, sandy, some grains

Sh: gry, LS: cm, m-fxn, sandy, SS: opaque, f-mgm, pr sort, sub round, limey

SS: opaque-clear, pr sort, sub round, limey

A.A. flush of Sh: gry-drk gry

Sh: gry-drk gry-lt gry, some SS: opaque-clear, m-fgm, sub round, pr sort, limey

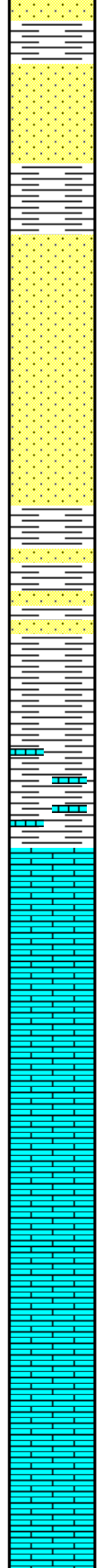
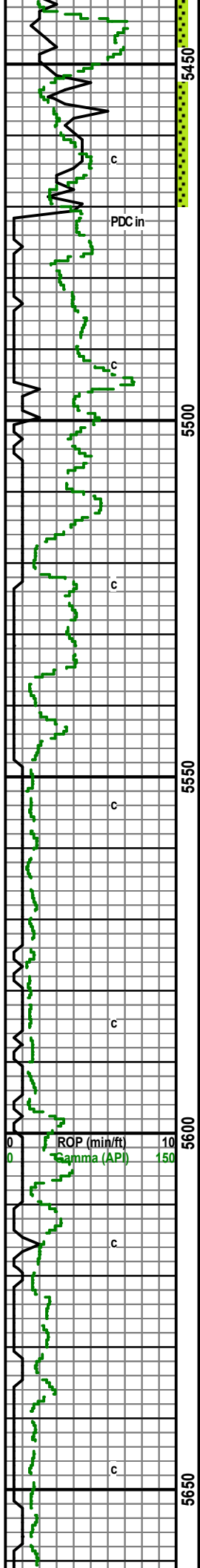
Mudco mdchk  
 Wt: 9.1 Vis: 51  
 pH: 9.0 Fil: 7.2  
 LCM: 17#

LMM: 5061 (-2031)

DST #1 5435-5470  
 30-60-45-90  
 IF: BOB 7" built to 45"  
 FF: BOB 30 sec built to 118", 2" blowback  
 Rec: 124' GCSOCM (25% G, 15% O, 60%M)  
 181' GCSOCMW (30% G, 10%O, 40%W, 20%M)  
 2604' GIP  
 IFP: 31-92 ISIP: 1211  
 FFP: 84-134 FSIP: 1221

RF (min-ft) 10  
 Gamma (API) 150

TG, C1-C5 500



SS: opaque, sub clear, sub ang, well sort, pos stain, pos sli SG, no odor, pos dull yell fluor dead oil

SS: opaque-clear, sub round, well sort, sli stain, SFO, sli odor, sli dull yellow fluor, pos gas bubble

Sh: gry-drk gry, few pieces of SS: A.A.

SS: opaque, f gm-vf gm, well sort, sub round, no stain, no odor, yell fluor, pos sli SFO, SG in some

SS: opaque, sli blue/gm, vf-fgm, well sort, sub round, pos sli stain in few, yell fluor, sli odor, pos sli SFO, SG in some

SS: opaque-gm-brwn, vf-f gm, well sort, sub md, some limey, no show, no odor, Sh: gry-drk gry, sli red silty

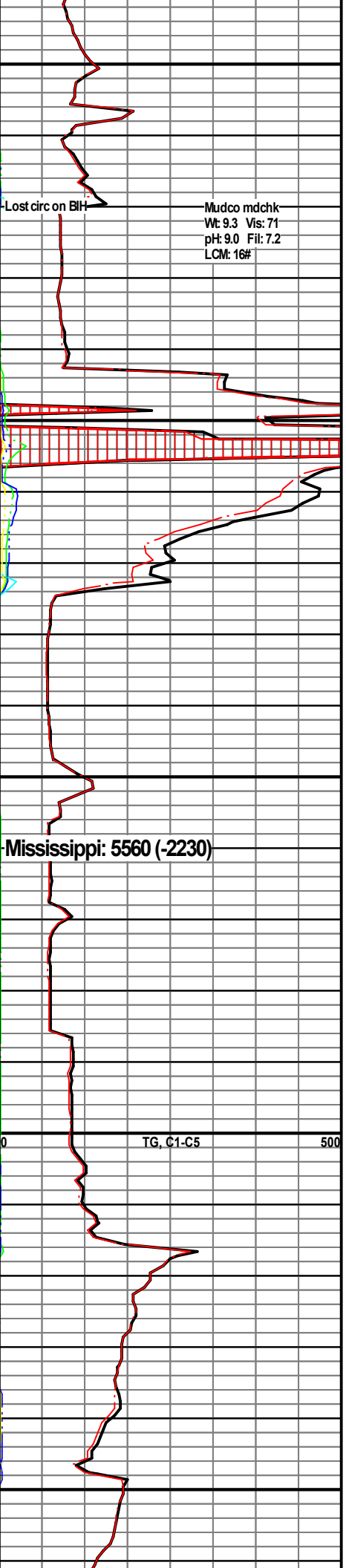
A.A.

A.A. with LS: cm, f-mxn, sandy

LS: cm, fxln, some mxln, sandy

LS: A.A.

LS: A.A.



Mudco mdchk:  
 Wt: 9.3 Vis: 71  
 pH: 9.0 Fil: 7.2  
 LCM: 16#

Lost circ on BIH

Mississippi: 5560 (-2230)

TG, C1-C5

ROP (min/ft)  
 Gamma (API)

10  
 150

0

500

5450

5500

5550

5600

5650

c.

PDC in

c.

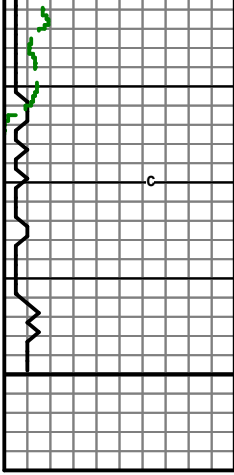
c.

c.

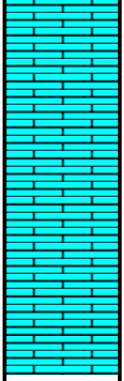
c.

c.

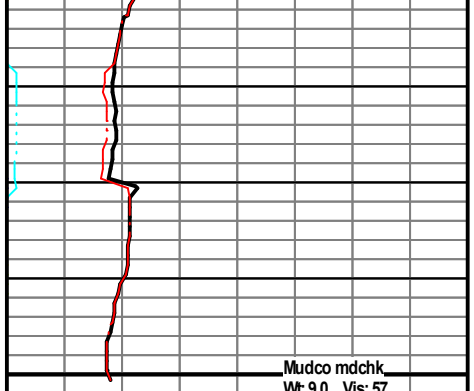
c.



5700



LTD: 5690  
RTD 5700



Mudco mdchk  
WE: 9.0 Vis: 57  
pH: 9.5 Fil: 8.4  
LCM: 22#



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

White Exploration  
 1635 N. Waterfront PKWY  
 STE 100  
 Wichita KS 67206  
 ATTN: Andy White

**2-29s-40w**

**Jewell Unit #1**

Job Ticket: 64871

**DST#: 1**

Test Start: 2019.03.16 @ 04:55:15

## GENERAL INFORMATION:

Formation: **Keys**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:23:45

Time Test Ended: 13:42:30

Test Type: (Initial)

Tester: Mike Roberts

Unit No: 81

**Interval: 5435.00 ft (KB) To 5470.00 ft (KB) (TVD)**

Reference Elevations: 3330.00 ft (KB)

Total Depth: 5470.00 ft (KB) (TVD)

3319.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

**Serial #: 8374 Inside**

Press@RunDepth: 134.13 psig @ 5436.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.03.16

End Date:

2019.03.16

Last Calib.:

2019.03.16

Start Time: 04:55:15

End Time:

13:42:30

Time On Btm:

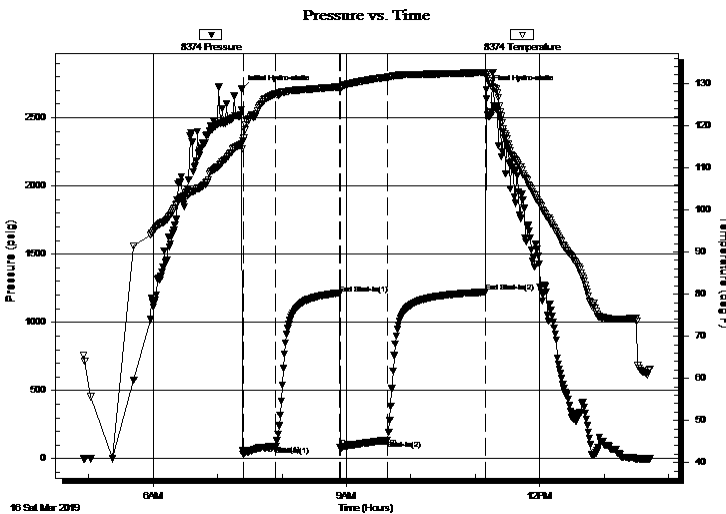
2019.03.16 @ 07:22:30

Time Off Btm:

2019.03.16 @ 11:10:00

**TEST COMMENT:** IF: Built to 45" blow BOB in 7 min  
 IS: No return blow  
 FF: Built to 118" blow BOB in 30 sec.  
 FS: No return blow

## PRESSURE SUMMARY



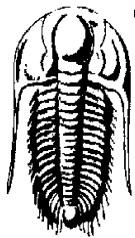
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2708.42	115.75	Initial Hydro-static
2	31.96	116.45	Open To Flow (1)
32	92.10	127.59	Shut-In(1)
91	1211.25	129.17	End Shut-In(1)
92	84.27	128.85	Open To Flow (2)
136	134.13	131.49	Shut-In(2)
227	1221.34	132.60	End Shut-In(2)
228	2704.35	132.17	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
181.00	gcsocmw 10%o 20%m 30%g 40%w	0.89
124.00	gcsocm 15%o 25%g 60%m	1.74
0.00	GIP= 2604	0.00

## 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

**2-29s-40w**  
**Jewell Unit #1**  
Job Ticket: 64871      **DST#: 1**  
Test Start: 2019.03.16 @ 04:55:15

## GENERAL INFORMATION:

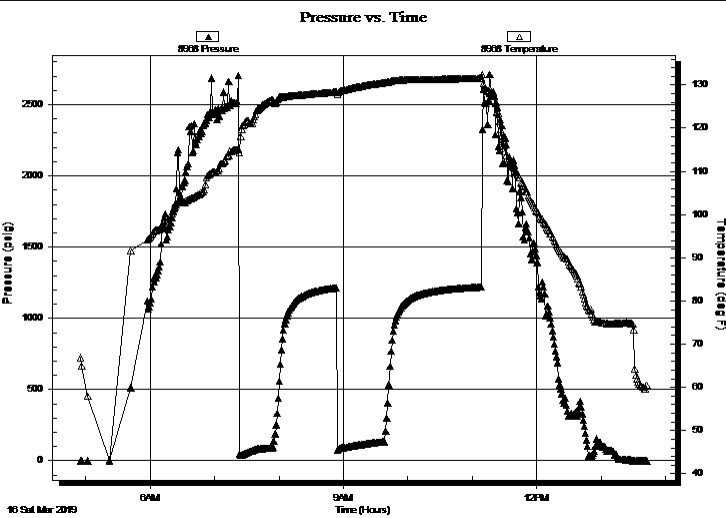
Formation: **Keys**  
Deviated: No Whipstock: ft (KB)      Test Type: (Initial)  
Time Tool Opened: 07:23:45      Tester: Mike Roberts  
Time Test Ended: 13:42:30      Unit No: 81

**Interval: 5435.00 ft (KB) To 5470.00 ft (KB) (TVD)**      Reference Elevations: 3330.00 ft (KB)  
Total Depth: 5470.00 ft (KB) (TVD)      3319.00 ft (CF)  
Hole Diameter: 7.88 inches      Hole Condition: Fair      KB to GR/CF: 11.00 ft

**Serial #: 8968      Outside**

Press@RunDepth:      psig @ 5436.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2019.03.16      End Date: 2019.03.16      Last Calib.: 2019.03.16  
Start Time: 04:55:15      End Time: 13:42:30      Time On Btm:  
Time Off Btm:

**TEST COMMENT:** IF: Built to 45" blow BOB in 7 min  
IS: No return blow  
FF: Built to 118" blow BOB in 30 sec.  
FS: No return blow



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
181.00	gcsocmw 10%o 20%m 30%g 40%w	0.89
124.00	gcsocm 15%o 25%g 60%m	1.74
0.00	GIP= 2604	0.00

## Gas Rates

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





**TRILOBITE**  
TESTING, INC.

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

White Exploration

**2-29s-40w**

1635 N. Waterfront PKWY  
STE 100  
Wichita KS 67206  
ATTN: Andy White

**Jewell Unit #1**

Job Ticket: 64871

**DST#: 1**

Test Start: 2019.03.16 @ 04:55:15

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

45000 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 500.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
181.00	gcsocmw 10%o 20%m 30%g 40%w	0.890
124.00	gcsocm 15%o 25%g 60%m	1.739
0.00	GIP= 2604	0.000

Total Length: 305.00 ft      Total Volume: 2.629 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW= .194@65.1= 45000 ppm

Serial #: 8374

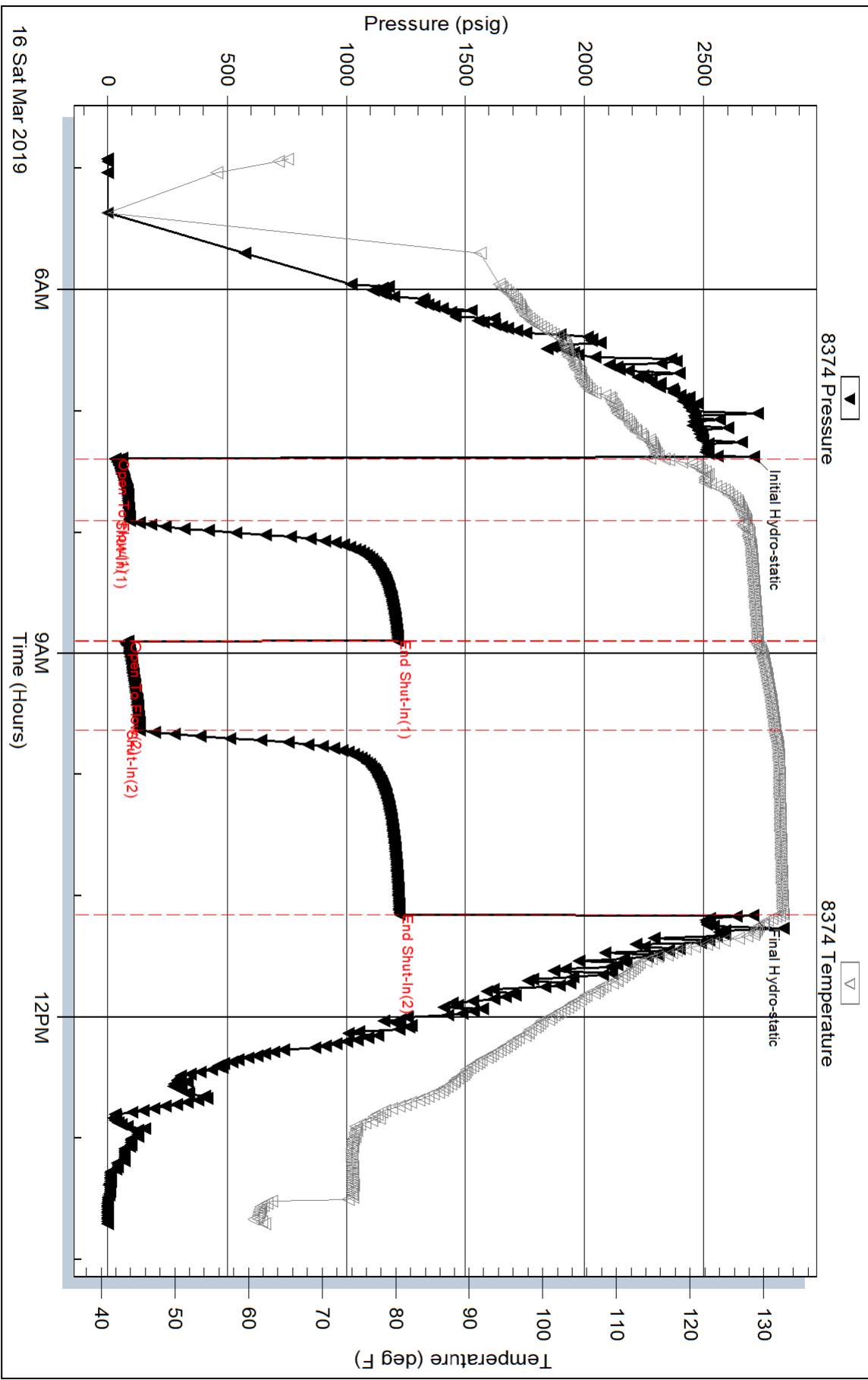
Inside

White Exploration

Jewell Unit #1

DST Test Number: 1

### Pressure vs. Time



Triobite Testing, Inc

Ref. No: 64871

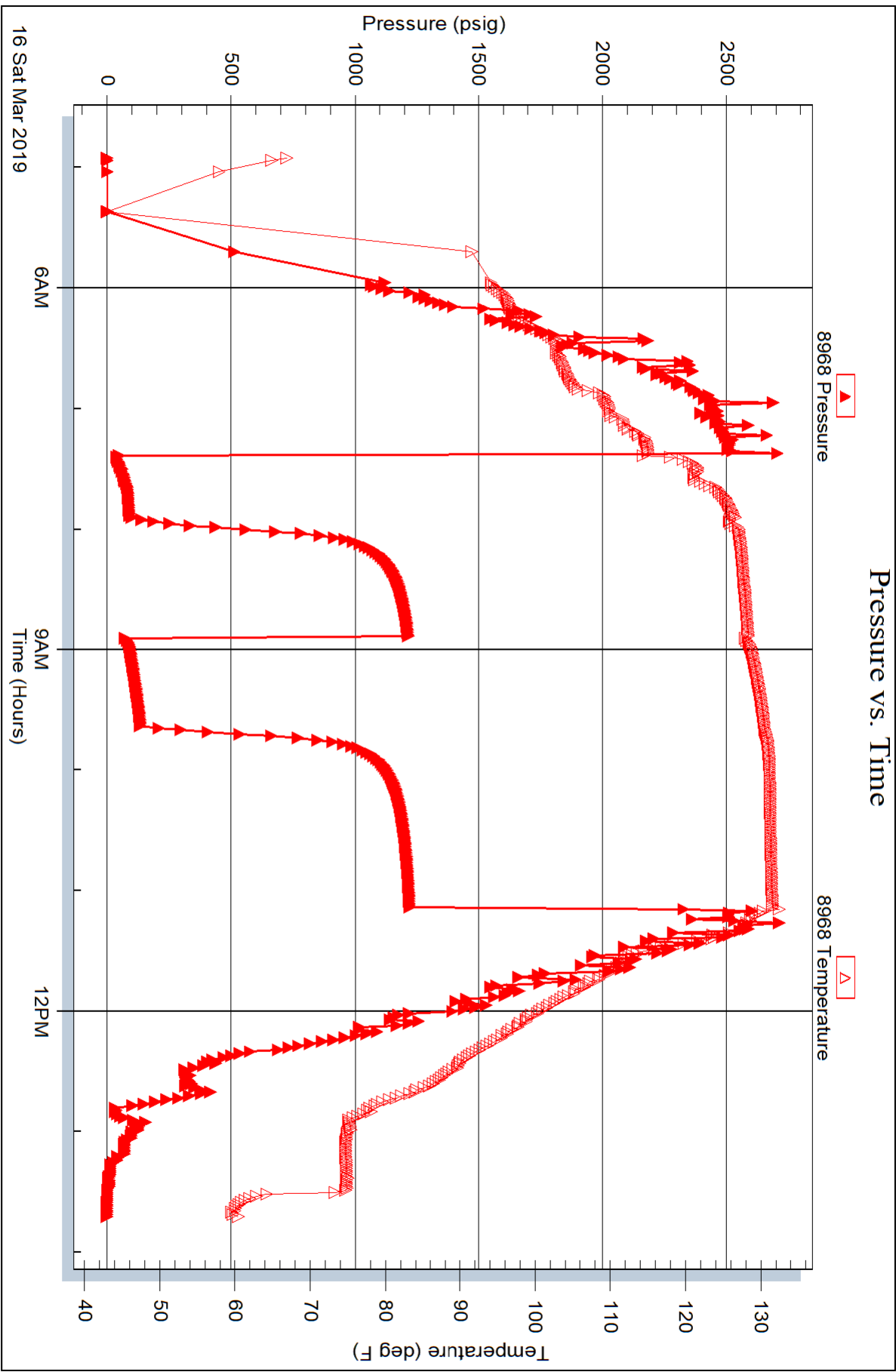
Printed: 2019.03.16 @ 15:40:32

Serial #: 8968

Outside White Exploration

Jewell Unit #1

DST Test Number: 1



# Quality Well Service, Inc.

# Invoice

**PO Box 468  
Pratt, KS 67124**

Date	Invoice #
3/11/2019	C-1980

Bill To
White Exploration Inc 1635 N. Waterfront Pkwy, Ste. 100 Wichita, KS 67206

*well filed*

P.O. No.	Terms	Lease Name
		Jewel Unit #1

Description	Qty	Rate	Amount
MDC	450	18.00	8,100.00T
Common	280	15.50	4,340.00T
Gel	4	22.00	88.00T
Calcium	23	60.00	1,380.00T
Flo-Seal	325	3.70	1,202.50T
8 5/8 AFU Insert	1	255.00	255.00T
8 5/8 Basket	1	280.00	280.00T
8 5/8 Centralizer	3	90.00	270.00T
8 5/8 Rubber Plug	1	140.00	140.00T
SFC 1501-3000'	1	950.00	950.00
Handling	677	2.10	1,421.70
.08 * sacks * miles	25,000	0.08	2,000.00
Service Supervisor	1	150.00	150.00
LMV	75	3.75	281.25
Heavy Equipment Mileage	225	8.00	1,800.00
Additional Hours	6	250.00	1,500.00
Customer Discount		-4,816.65	-4,816.65
Customer Discount		-2,430.89	-2,430.89
Discount Expires after 30 days from the date of the invoice		0.00	0.00
Jewel Unit #1 Stanton Co.			

Thank You for your business!	<b>Subtotal</b>	\$16,910.91
	<b>Sales Tax (7.5%)</b>	\$964.08
	<b>Total</b>	\$17,874.99



# QUALITY WELL SERVICE, INC.

7076

Federal Tax I.D. # 481187368

Home Office 30060 N. Hwy 281, Pratt, KS 67124

Mailing Address P.O. Box 468

Office 620-727-3410  
Fax 620-672-3663

Rich's Cell 620-727-3409  
Brady's Cell 620-727-6964

Date	Sec.	Twp.	Range	County	State	On Location	Finish
8-8-19	6	29S	40W	STANTON	Ks		
Lease	JEWEL Unit		Well No.	"1			
Contractor	MURFIN Rig # 22			Location Johnson Ck, Ks. Highway 15 1/2 E Sinto			
Type Job	SURFACE			Owner To Quality Well Service, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.			
Hole Size	12 1/4	T.D.	1734'				
Csg.	8 5/8 24"	Depth	1733				
Tbg. Size		Depth	Charge To White Exploration Inc.				
Tool		Depth	Street				
Cement Left in Csg.	42.63	Shoe Joint	42.63				
Meas Line		Displace	107.51				
EQUIPMENT			200 ea Common 2 1/2" 21.6EL 3 1/2" CC 1/2" PS				
Pumptrk	8	No.	TS				
Bulktrk	7	No.	JAKE				
Bulktrk	10	No.	J.M				
Pickup		No.	Calcium 235				
JOB SERVICES & REMARKS			Hulls				
Rat Hole	Salt						
Mouse Hole	Flowseal 325 lbs						
Centralizers	1-30-35						
Baskets	30						
D/V or Port Collar	CFL-117 or CD110 CAF 38						
Ran 41 H's 8 5/8 24" Csg sel 1733'			Sand				
Csg on Bottom Hook up to Csg & Break circ w/leg csg crew Rig down			Handling 677				
DROD Ball BREAK circ w/leg			Mileage 75				
START Pumping 5 table H <sub>2</sub> O			8 5/8 FLOAT EQUIPMENT				
START Mix & Pump 450 ea MDC			Guide Shoe				
3 1/2" CC 1/2" PS @ 12" / gal			Centralizer 3 EA				
START Mix & Pump 200 ea Common			Baskets 1 EA				
2 1/2" EL 3 1/2" CC 1/2" PS			AFU Inserts 1 EA				
SHOT DOWN RELEASE 2 7/8 TR Plug			Float-Shoe 1 RUBBER Plug				
START Disp & LOST CIRC			Latch-Down 6 EA				
10 Bbls out Pump All CAT & Disp			SERVICE Sps 1 EA				
3 BPM			LNV 75				
Plug down 600' RELEASE & HELD			Pumptrk Charge CFL-1500-3000				
WOC 2 HRS			Mileage 225				
4.15 lag 125' 150'			Tax				
X Signature			Discount				
			Total Charge				



# QUALITY WELL SERVICE, INC.

Federal Tax I.D. # 481187368  
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 Mailing Address P.O. Box 468

Office 620-727-3410  
 Fax 620-672-3663

Rich's Cell 620-727-3409  
 Brady's Cell 620-727-6964

Date	3-8-19	Sec.	6	Twp.	29S	Range	40W	County	STANTON	State	Ks	On Location	Finish
Lease	JEWEL UNIT		Well No.		*1		Location						
Contractor	Mux Fin Drlg Rtg #22						Owner						
Type Job	SURFACE						To Quality Well Service, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.						
Hole Size	12 1/4		T.D.		1734'		Charge To						
Csg.	8 5/8 24"		Depth		1733'		To						
Tbg. Size			Depth				Street						
Tool			Depth				City		State				
Cement Left in Csg.	42.63		Shoe Joint		42.63		The above was done to satisfaction and supervision of owner agent or contractor.						
Meas Line			Displace		107.51		Cement Amount Ordered						

Mix: Pump 35 cc Common 2% GEL 3/4 CC 1/2" PS  
 SHOT DOWN WOC 2 HRS 30' ↓  
 Mix: Pump 20 cc Common 2% GEL 3/4 CC 1/2" PS.  
 SHOT DOWN WOC 3 HRS 6' ↓  
 TOP OFF 25 cc Common  
 WOC 1 HR  
 DROPT FALL BACK  
 RELEASED

THANK YOU  
 PLEASE CALL AGAIN  
 TOWN TO JAKE JIM

LEAD 450 cc WOC 3/4 CC 1/2" PS  
 TAIL 20 cc Common 2% GEL 3/4 CC 1/2" PS  
 TOP OFF 55 cc Common 2% GEL 3/4 CC 1/2" PS  
 TOP OFF 25 cc Common

# Quality Well Service, Inc.

# Invoice

**PO Box 468  
Pratt, KS 67124**

Date	Invoice #
3/21/2019	C-1988

Bill To
White Exploration Inc 1635 N. Waterfront Pkwy, Ste. 100 Wichita, KS 67206

*well file*  
*(C)*

P.O. No.	Terms	Lease Name
		Jewel Unit #1

Description	Qty	Rate	Amount
Pro-C	200	18.00	3,600.00T
MDC	375	18.00	6,750.00T
Common	150	15.50	2,325.00T
Gel	7	22.00	154.00T
Calcium	16	60.00	960.00T
Salt	20	13.00	260.00T
Flo-Seal	262.5	3.70	971.25T
Kol-Seal	1,000	0.75	750.00T
Mud Flush	500	1.00	500.00T
CC-1	8	35.00	280.00T
Fluid Loss	113	7.50	847.50T
Cement Defoamer	47	6.00	282.00T
5 1/2 Centralizer	12	50.00	600.00T
5 1/2" Rotating Scratchers	17	45.00	765.00T
5 1/2 Basket	3	190.00	570.00T
5 1/2 DV Tool	1	5,000.00	5,000.00T
5 1/2 AFU Float Shoe	1	275.00	275.00T
5 1/2 LD Plug & Baffle	1	225.00	225.00T
Rotating Head	1	200.00	200.00T
Longstring	1	1,750.00	1,750.00
Handling	778	2.10	1,633.80
.08 * sacks * miles	20,000	0.08	1,600.00
Service Supervisor	1	150.00	150.00
Additional hours	6	250.00	1,500.00
LMV	75	3.75	281.25
Heavy Equipment Mileage	300	8.00	2,400.00
Plug Container	1	150.00	150.00
Customer Discount		-16,346.50	-16,346.50

Thank You for your business!	<b>Subtotal</b>
	<b>Sales Tax (7.5%)</b>
	<b>Total</b>



# QUALITY WELL SERVICE, INC.

7080

Federal Tax I.D. # 481187368

Home Office 30060 N. Hwy 281, Pratt, KS 67124

Mailing Address P.O. Box 468

Office 620-727-3410  
Fax 620-672-3663

Rich's Cell 620-727-3409  
Brady's Cell 620-727-6964

Date	3-18-19	Sec.	6	Twp.	29S	Range	40W	County	STANTON	State	Ks	On Location		Finish	
Lease	JEWEL Unit		Well No. #1			Location Johnson City, Ks Truck STOP S to									
Contractor	Murfin Drilling Rig 22							Owner ACROSS KIRTRACK 1/2 E Sinto							
Type Job	5 1/2 2 Stage LS							To Quality Well Service, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.							
Hole Size	7 7/8		T.D.		5690'		Charge To White Expl. Inc								
Csg.	5 1/2 15.5"		Depth		5689		Street								
Tbg. Size			Depth				City								
Tool			Depth				State								
Cement Left in Csg.	20.92		Shoe Joint		20.92		The above was done to satisfaction and supervision of owner agent or contractor.								
Meas Line			Displace		134.89		Cement Amount Ordered 375 sx MOC 3 1/2 CC 1/2' PS								

**EQUIPMENT**

Pumptrk	8	No.	TJ	Common	150 sx
Bulktrk	7	No.	JAKE	Poz. Mix	375 sx MOC
Bulktrk	10	No.	Jim	Gel.	7 sx
Pickup	15	No.	Dillon	Calcium	16 sx

**JOB SERVICES & REMARKS**

Rat Hole	30 sx	scratchers 5-6-7	Hulls	200 sx PROCL
Mouse Hole	20 sx		Salt	20
Centralizers	2-4-5-6-7-9-11-15-18-21-59-61		Flowseal	262.5 #
Baskets	Bottom, 2-60		Kol-Seal	1000 #
D/V or Port Collar	Bottom 61 = 3193		Mud CLR 48	500 gal
Run 136 #1's 5 1/2 15.5' csg SET @ 5639'			CFL-117 or CD110 CAF 38	8 gal CC-1
6 #1's in hit something pull out			Sand C16A 113" C-91P 47"	
2 #1's take off cont couldn't go back in			Handling	778
PRECISE Lay down csg; Rig go in			Mileage	75

**FLOAT EQUIPMENT**

with Drill PIPE go to head of surface	Guide Shoe	Rotate HEAD
Pull up in csg; circ H2O laydown D.P.	Centralizer	12 EA 17 EA ROTATE SCRATCHERS
START csg 62 #1's in circ w/leg 10 min	Baskets	3 EA
Drop Ball; circ 10 min Run 20 #1's = 82	AFU Inserts	DV tool 1 EA
circ w/leg Run 20 #1's 102 circ w/leg	Float Shoe	1 EA 6 add H2s
Run 136 #1's in tag Bottom	Latch Down	1 EA
Hook up to csg; Break circ w/leg	SERVICE Spv - 1	Plug Cont - 1
Rotate H2s	LHV 75	
START Pumping PREFLUSHES	Pumptrk Charge	longstring
5 Bbls H2O 12 Bbls MF 5 Bbls H2O	Mileage	300

START Mix 60 sx MOC 3 1/2 CC 1/2' PS LEAD  
START Mix 200 sx PROCL TAIL

X Signature *[Handwritten Signature]*

Tax	
Discount	
Total Charge	



# QUALITY WELL SERVICE, INC.

Federal Tax I.D. # 481187368  
 Home Office 30060 N. Hwy 281, Pratt, KS 67124  
 Mailing Address P.O. Box 468

Office 620-727-3410  
 Fax 620-672-3663

Rich's Cell 620-727-3409  
 Brady's Cell 620-727-6964

Date	3-18-19	Sec.	6	Twp.	29S	Range	40W	County	STANTON	State	Ks	On Location		Finish	
Lease	JEWEL Unit		Well No.		#1		Location								
Contractor	MURFIN Delg Rig #22							Owner							
Type Job	5 1/2 2 Stage LS							To Quality Well Service, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.							
Hole Size	7 7/8		T.D.		5695'		Charge To								
Csg.	5 1/2 15.5 #		Depth		5639		White Expl. Inc.								
Tbg. Size			Depth				Street								
Tool			Depth				City				State				
Cement Left in Csg.	20.92		Shoe Joint		20.92		The above was done to satisfaction and supervision of owner agent or contractor.								
Meas Line			Displace		134.39		Cement Amount Ordered								

SHUT down washup tek Lines Release LD Plug

START disp w/ 2% RCL

100 lift psi 650#

136 out plug down 1000# psi up csg 1500#

RELEASE & HELD 3/4 Bbls BACK

DROP OPEN tool LEAD Closing Plug

OPEN tool 1600# + circ w/ H2S on Pump tek 5 Bbls

Hook up to Rig & circ 1 1/2 hrs

Plug R M HOLEC 50% mac 3/4 CC 1/2" PS

Mix: Pump 265 & down csg 12" gal

Mix: Pump 150 st Common 2% FEL 3/4 CC 1/2" PS

SHUT down washup tek Release Closing Plug

START disp

25 out circ cur to pt

Plug down 77 out 1000'

psi up csg 1700#

RELEASE & HELD

1/2 Bbl BACK

Good circ thro both JOBS

1ST STAGE

12" gal LEAD 60% mac 3/4 CC 1/2" PS

14 B" gal TAIL 20% mac

2% FEL 10% SALT 5% KOLSEAL

6% C16A .25% C-91P

2ND STAGE

12" gal LEAD 315% mac 3/4 CC 1/2" PS

14 B" gal TAIL 150% Common

2% FEL 3/4 CC 1/2" PS

Thank you  
 PLEASE Call AGAIN  
 TODD TJ JAKE  
 Dillon Jim

300