



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1262665  
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: \_\_\_\_\_



1262665

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:  
 Flowing  Pumping  Gas Lift  Other *(Explain)* \_\_\_\_\_

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> _____ _____
--------------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------

Form	ACO1 - Well Completion
Operator	Culbreath Oil & Gas Company, Inc.
Well Name	Golden Bear 2-33
Doc ID	1262665

All Electric Logs Run

CND
DIL
Micro
Dev

# ALLIED OIL & GAS SERVICES, LLC 064716

Federal Tax I.D. # 20-8651475

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

SERVICE POINT:  
Dakota, KS

DATE <u>5-26-15</u>	SEC <u>33</u>	TWP <u>11</u>	RANGE <u>32</u>	CALLED OUT	ON LOCATION <u>9:00 AM</u>	JOB START <u>12:00 PM</u>	JOB FINISH <u>10:30 PM</u>
LEASE <u>Calahan Bear</u>	WELL # <u>2-33</u>	LOCATION <u>Dakota 55, 10, 10, 10</u>		COUNTY <u>Logan</u>	STATE <u>KS</u>		
OLD OR NEW (Circle one) <u>NEW</u>				<u>admits</u>			

CONTRACTOR CW 2

TYPE OF JOB Surface

HOLE SIZE 12 1/4" T.D. 302'

CASING SIZE 8 7/8" DEPTH 307.52

TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_

DRILL PIPE \_\_\_\_\_ DEPTH \_\_\_\_\_

TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_

PRES. MAX \_\_\_\_\_ MINIMUM \_\_\_\_\_

MEAS. LINE \_\_\_\_\_ SHOE JOINT \_\_\_\_\_

CEMENT LEFT IN CSG. 15'

PERFS. \_\_\_\_\_

DISPLACEMENT 10,346 gal

OWNER Same

CEMENT AMOUNT ORDERED 200 SB cement 3850

EQUIPMENT

PUMP TRUCK CEMENTER Lafone Ewens

# 4122 HELPER Wayne McElghy

BULK TRUCK # 829341 DRIVER Narren Rickett

BULK TRUCK # \_\_\_\_\_ DRIVER \_\_\_\_\_

COMMON	<u>2005 lb</u>	@ <u>17.90</u>	<u>3580.00</u>
POZMIX		@	
GEL		@	
CHLORIDE	<u>364#</u>	@ <u>1.10</u>	<u>620.40</u>
ASC		@	
Material Total			<u>4200.40</u>
<u>(1784.17 / 42%)</u>			
HANDLING	<u>210 ft<sup>3</sup></u>	@ <u>2.48</u>	<u>520.80</u>
MILEAGE	<u>9.68 hrs x 10 x 2.75</u>		<u>266.20</u>
TOTAL			

REMARKS:

Mix 200 SB cement

Displace with water

Cement did circulate

4661 to pit

Thank you

SERVICE

DEPTH OF JOB 307.52

PUMP TRUCK CHARGE 1512.25

EXTRA FOOTAGE @ \_\_\_\_\_

MILEAGE MFLD 10 @ 7.70 77.00

MANIFOLD Swage @ \_\_\_\_\_ 225.00

MFLD 10 @ 4.90 49.00

TOTAL (1132.80 / 42%) 2,695.25

CHARGE TO: Calbreath

STREET \_\_\_\_\_

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

PLUG & FLOAT EQUIPMENT

_____	@ _____
_____	@ _____
_____	@ _____
_____	@ _____
_____	@ _____
TOTAL _____	

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.

SALES TAX (If Any) \_\_\_\_\_

TOTAL CHARGES 6,895.65

DISCOUNT 2,896.17 (42%) IF PAID IN 30 DAYS

3,999.47 Net.

PRINTED NAME \_\_\_\_\_

SIGNATURE Paul Bellier

# ALLIED OIL & GAS SERVICES, LLC 064738

Federal Tax I.D. # 20-8651475

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

SERVICE POINT:  
Oakley

DATE <u>6-3-15</u>	SEC. <u>33</u>	TWP. <u>11S</u>	RANGE <u>92W</u>	CALLED OUT	ON LOCATION <u>5:00 pm</u>	JOB START <u>7:00 pm</u>	JOB FINISH <u>8:00 pm</u>
LEASE <u>Golden Bear</u>	WELL# <u>2-33</u>	LOCATION <u>Oakley 55 1/2 W 1/4 N 11 S</u>		COUNTY <u>Garland</u>	STATE <u>TX</u>		
OLD OR NEW (Circle one) <u>NEW</u>							

CONTRACTOR <u>WTW 2</u>	OWNER <u>Same</u>
TYPE OF JOB <u>PTA</u>	
HOLE SIZE <u>7 7/8</u>	T.D. <u>4830'</u>
CASING SIZE	DEPTH
TUBING SIZE	DEPTH
DRILL PIPE <u>4 1/2</u>	DEPTH <u>2610'</u>
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT
CEMENT LEFT IN CSG.	
PERFS.	
DISPLACEMENT	

CEMENT	
AMOUNT ORDERED <u>240 sks 6940 4% gel</u>	
<u>1/4 Flo-seal</u>	
COMMON	@
POZMIX	@
GEL	@
CHLORIDE	@
ASC	@
<u>6940 4% gel 240 sks</u>	@ <u>18.92 4540.80</u>
<u>Flo-seal 60#</u>	@ <u>2.97 178.20</u>
<u>Material total</u>	@ <u>4719.00</u>
<u>(1981.98/42%)</u>	@
HANDLING <u>257.26 cu/ft</u>	@ <u>2.48 639.24</u>
MILEAGE <u>2.25 Trip/mile 10.2 ton</u>	@ <u>295.90</u>
TOTAL	

EQUIPMENT

PUMP TRUCK # <u>495-281</u>	CEMENTER <u>Andrew Fauslund</u>
BULK TRUCK # <u>818</u>	HELPER <u>Kevin Ryan</u>
BULK TRUCK #	DRIVER <u>Alan Ryan</u>
BULK TRUCK #	DRIVER

REMARKS:

50 sks @ 2610'  
100 sks @ 1660'  
50 sks @ 350'  
10 sks @ 40'  
30 sks Rathole

*Thank you*

CHARGE TO: Culbreath Oil & Gas

STREET \_\_\_\_\_

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

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 Lemmi Kang

SIGNATURE Lemmi Kang

SERVICE

DEPTH OF JOB <u>2610'</u>	
PUMP TRUCK CHARGE	<u>2483.59</u>
EXTRA FOOTAGE	@
MILEAGE <u>10 miles</u>	@ <u>2.20 22.00</u>
MANIFOLD	@
<u>Light vehicle</u>	@ <u>4.40 44.00</u>
<u>(1486.68/42%)</u>	
TOTAL	<u>3,539.73</u>

PLUG & FLOAT EQUIPMENT

<u>8 5/8</u>	
<u>1 Dry hole plug</u>	@ <u>110.00</u>
	@
	@
	@
	@
TOTAL	<u>110.00</u>

SALES TAX (If Any) \_\_\_\_\_

TOTAL CHARGES 8,368.73

DISCOUNT 3,468.66 (42%) IF PAID IN 30 DAYS

4,900.06 Net



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Culbreath Oil & Gas Company, Inc.

**33-11s-32w, Logan Co, KS**

3501 S Yale AVE  
Tusla, OK 74135 - 8015

**Golden Bear 2-33**

Job Ticket: 61581

**DST#: 1**

ATTN: Steve Murphy

Test Start: 2015.06.02 @ 07:25:00

## GENERAL INFORMATION:

Formation: **Johnson Zone**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:29:30

Time Test Ended: 13:00:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Jace McKinney

Unit No: 75

Interval: **4630.00 ft (KB) To 4674.00 ft (KB) (TVD)**

Reference Elevations: 3062.00 ft (KB)

Total Depth: 4674.00 ft (KB) (TVD)

3057.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 5.00 ft

**Serial #: 8675** Inside

Press@RunDepth: 27.99 psig @ 4635.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.06.02

End Date:

2015.06.02

Last Calib.:

2015.06.02

Start Time:

07:27:15

End Time:

13:00:30

Time On Btm:

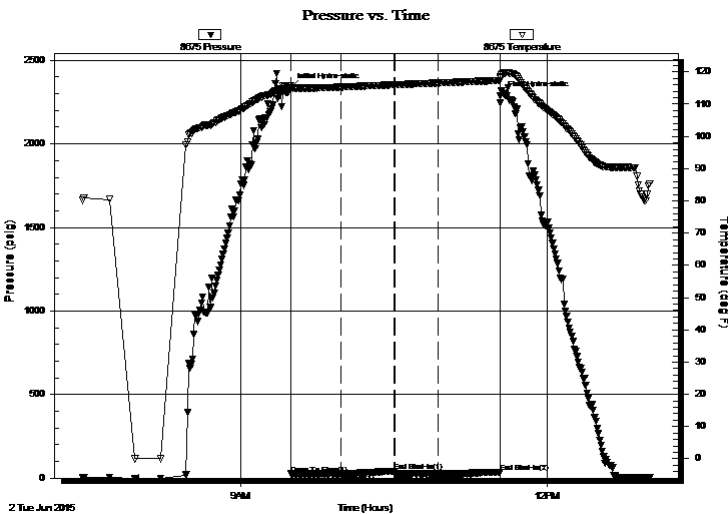
2015.06.02 @ 09:29:15

Time Off Btm:

2015.06.02 @ 11:32:45

TEST COMMENT: Built to 1/4" blow  
No return blow  
No blow  
No return blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2336.43	115.77	Initial Hydro-static
1	24.81	114.89	Open To Flow (1)
30	26.11	115.31	Shut-In(1)
61	42.76	116.02	End Shut-In(1)
62	26.15	116.01	Open To Flow (2)
87	27.99	116.58	Shut-In(2)
123	36.09	117.37	End Shut-In(2)
124	2288.50	118.44	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	100% Mud w with few oil spots	0.02

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Culbreath Oil & Gas Company, Inc.

**33-11s-32w, Logan Co, KS**

3501 S Yale AVE  
Tusla, OK 74135 - 8015

**Golden Bear 2-33**

Job Ticket: 61581

**DST#: 1**

ATTN: Steve Murphy

Test Start: 2015.06.02 @ 07:25:00

### 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:

ppm

Viscosity: 59.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.60 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	100% Mud w ith few oil spots	0.025

Total Length: 5.00 ft      Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8675

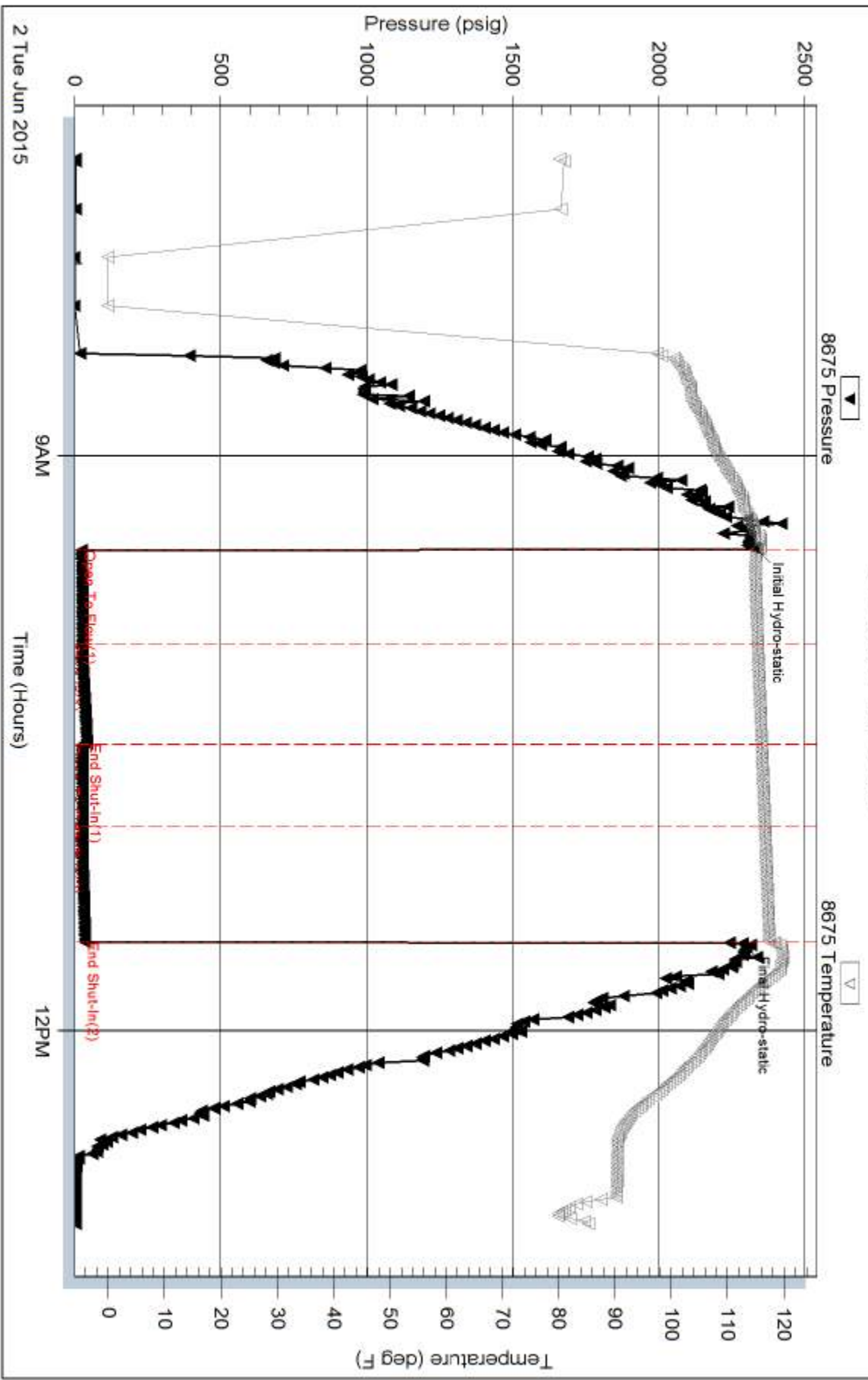
Inside

Culbreath Oil & Gas Company, Inc.

Golden Bear 2-33

DST Test Number: 1

### Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 61581

Printed: 2015.06.02 @ 13:15:18





# STEVEN P. MURPHY, P.G.

*Petroleum Geologist (KS #228)*

Cell 620.639.3030

Fax 785.387.2400

RR#1, Box 69

Otis, Kansas 67565

geomurphy@gbta.net

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

Well Name: Golden Bear #2-33

API: 15-109-21412-00-00

Location: Logan County

License Number: 34344

Spud Date: 5/26/15

Surface Coordinates: 788' FSL & 385' FEL (SW NE SE SE)

33-T11S-R32W

Region: Kansas

Drilling Completed: 6/3/15

Bottom Hole Coordinates: Same as above (Vertical well w/minimal deviation)

Ground Elevation (ft): 3057'

K.B. Elevation (ft): 3062'

Logged Interval (ft): 3500 To: TD

Total Depth (ft): RTD - 4830'/LTD - 4821'

Formation: Topeka through Mississippian

Type of Drilling Fluid: Chemical/Polymer/Gel (KDT- Ken Rupp, Mud Engineer)

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

## OPERATOR

Company: Culbreath Oi & Gas

Address: 1532 S. Peoria Ave.  
Tulsa, OK 74120

## GEOLOGIST

Name: Steven P. Murphy, PG

Company: Consulting Petroleum Geologist (License #228)

Address: 3365 County Rd 390  
Otis, KS 67565  
Cell: 620-639-3030

## REMARKS

Halliburton performed the open-hole wireline logging with a stacked Dual Compensated Porosity, Dual Induction, Microresistivity & Borehole Compensated Sonic Logs.

The following are log tops of formations with associated datums (in parentheses) referenced to sea level:

Anhydrite Top - 2598 (+464)  
Anhydrite Base - 2622 (+440)  
Topeka - 3819 (-757)  
Heebner - 4044 (-982)  
Lansing - 4087 (-1025)  
Muncie Creek - 4232 (-1170)  
Stark - 4315 (-1253)  
Hushpuckney - 4350 (-1288)  
Base KC - 4381 (-1319)  
Marmaton - 4440 (-1378)  
Myrick Station - 4552 (-1490)  
Fort Scott - 4583 (-1521)  
Cherokee - 4610 (-1548)  
Johnson Zone - 4648 (-1586)  
Mississippian - 4528 (-1662)

## ROCK TYPES

### LITHOLOGY

	Anhy
	Bent
	Brec
	Cht
	Clyst
	Coal
	Congl
	Dol
	Gyp
	Igne
	Lmst
	Meta
	Mrst
	Salt
	Shale
	Shcol
	Shgy
	Sltst
	Ss
	Till
	Sltstn
	Shale
	Sandylms
	Lms
	Gry sh
	Dtd
	Dol
	Carb sh
	pipesymbol
	unknown lith
	Red shale

### FOSSIL

	Oomoldic
	Fuss
	Algae


### MINERAL

	Sltly
	Sand
	Dol
	Chlorite
	Anhy
	Arggrn
	Arg
	Bent
	Bit
	Brecfrag
	Calc
	Carb
	Chtdk
	Chtlt
	Dol

Amph
Belm
Bioclst
Brach
Bryozoa
Cephal
Coral
Crin
Echin
Fish
Foram
Fossil
Gastro
Oolite
Ostra
Pelec
Pellet
Pisolite
Plant
Strom

### STRINGER

	Red shale
	Sh
	Sandylms
	Lms
	Gryslt
	Grysh
	Dol
	Clystn
	Carbsh
	Anhy
	Arg
	Bent
	Coal
	Dol
	Gyp
	Ls
	Mrst

Feldspar
Ferrpel
Ferr
Glau
Gyp
Hvymin
Kaol
Marl
Minxl
Nodule
Phos
Pyr
Salt
Sandy
Silt
Sil
Sulphur
Tuff


Sltstrg
Ssstrg

### TEXTURE

	Boundst
	Chalky
	Cryxln
	Earthy
	Finexln
	Grainst
	Lithogr
	Microxln
	Mudst
	Packst
	Wackest

### OIL SHOW

	Gas show
	Good
	Fair
	Poor
	Dead

### INTERVAL

	Dst
	Core
	Dst
	Straddle test tail pip

### EVENT

	Rft
	Sidewall
	Dst
	Open hole
	Perforations

## DSTs

Drillstem testing was performed by Jace McKinney w/Trilobite Testing, Inc (Scott City shop):

DST #1 4630-4674 (Johnson Zone)

30:30:30:30

IF: 1/4" blow, NR

FF: NB, NR

Recovery: 5' Mud w/oil spots

IHP: 2336 FHP: 2289

IFP: 25-26 ISIP: 43

FFP: 26-28 FSIP: 36

BHT - 117 F

**COMMENTS**

WW Drilling Co - Rig #2 (Toolpusher - Lonnie Lang)

Deviation surveys were taken at the following depths:

- 1029' - 1.25 deg
- 1501' - 1 deg
- 2006' - 3/4 deg
- 2510' - 1 deg
- 3015' - 1 deg
- 3489' - 3/4 deg
- 3995' - 3/4 deg
- 4562' - 1/2 deg
- 4674' - 1 deg
- 4830' - 1 3/4 deg

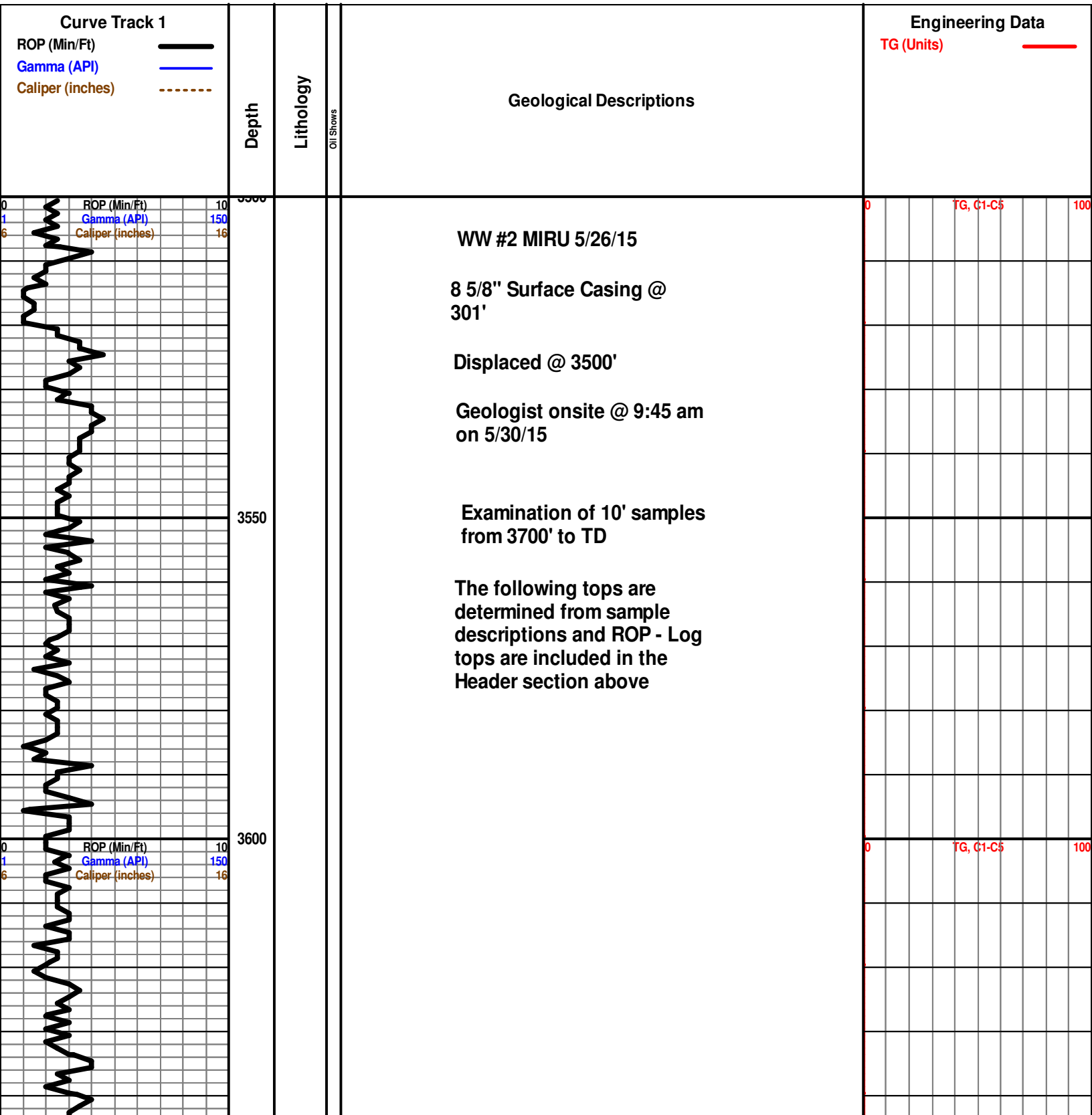
Pipe was strapped @ 4674' (DST #1) - 3.08' long to board. No corrections were made to the geolograph and/or the mudlog.

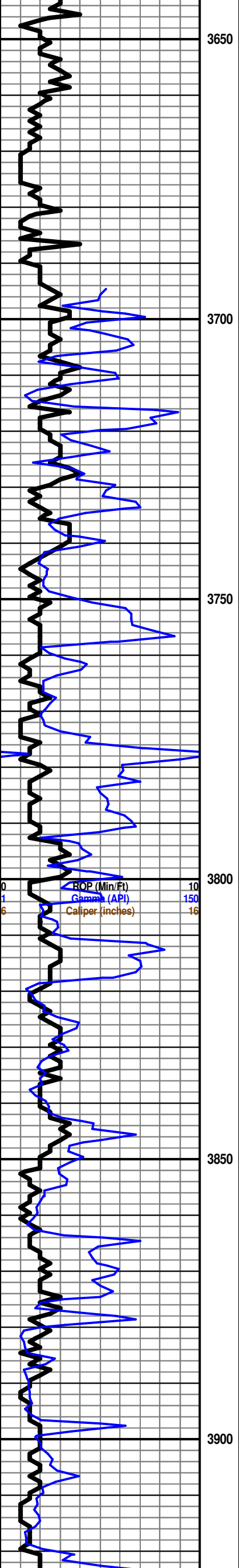
Based on negative structural position, and log & sample analysis, it was determined that this well should be plugged.

Well samples were collected for the Kansas Well Sample Library.

Respectfully submitted,

Steven P. Murphy, PG





3650  
3700  
3750  
3800  
3850  
3900

Poor sample quality, mainly gry shale

LS: tan-gry, vfxln, dense, foss, chalky, NS

SH: blk-gry-red

SH: as above

LS: wht-gry-red, vfxln, dense, sl foss, NS (w/abund red-gry siltstn)

LS: wht-gry, vfxln, dense, pelletal in pt, NS

SH: gry-blk-grn-red .

**TOPEKA 3823 (-761)**

LS: crm-tan-gry, vfxln, dense, sl foss, sl chalky, NS

LS: as above

LS: as above, very chalky

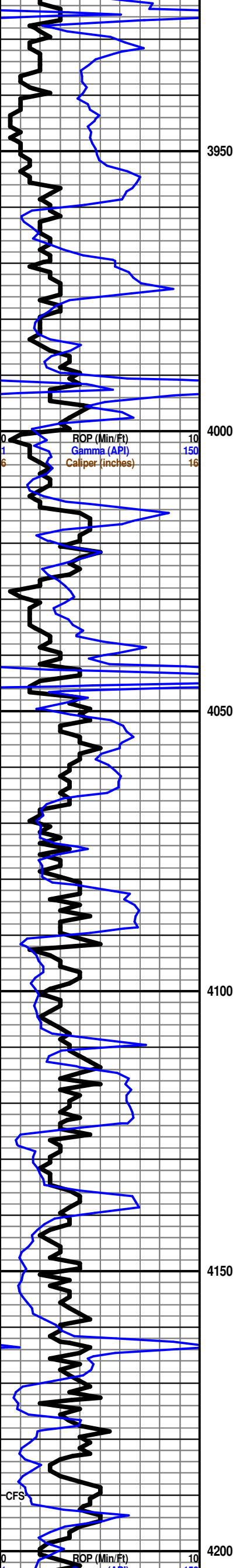
LS: crm-gry, vfxln, sl foss, chalky, dense, NS

LS: wht-tan-gry, vfxln, sl foss, chalky, dense, NS (shaley)

LS: crm-tan-gry, vfxln, sl foss, chalky, sl pelletal, NS

LS: as above

0 100 TG, C1-C5



SH: blk, carb

LS: crm-gry, vfxln, v chalky, oolitic in pt, NS w/abund red, sticky shale

SH & LS: as above

LS: crm-tan, fxlIn, dense, sl chalky, w/abund red-gry-grn-blk shale

LS & SH: as above

SH: blk, carb

Survey @ 3995' - 3/4 deg

LS: crm-tan-brn, vfxln, sl foss, dense, NS

LS: crm-brn, vfxln, sl foss, dense, NS

LS: crm-brn-gry, vfxln, sl oolitic, sl chalky, dense, NS

LS: as above

**HEEBNER 4045 (-983)**

SH: blk, carb

SH: SH: gry-grn-red

SH: as above

LS: wht-tan-gry, vfxln, dense, chalky, NS

SH: gry-grn-red

**LANSING 4087 (-1025)**

LS: crm-tan-gry, vfxln, chalky, dense, NS

LS: as above

SH: gry-red

LS: wht-crm, vfxln, dense, chalky, minor chert, NS

LS: as above

SH: gry-grn-red

LS: wht-tan, vfxln, dense, chalky, NS

LS: as above

LS: crm-tan, vfxln, dense, chalky, minor cht, NS

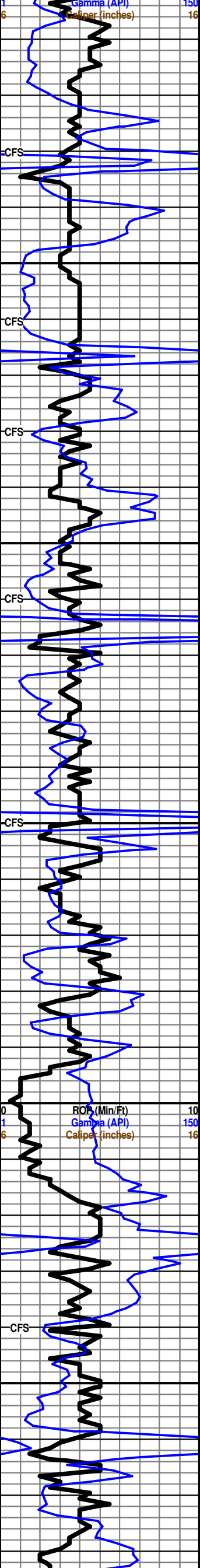
LS: as above

SH: gry-blk-brn

0 TG, C1-C5 100

0 Scale Change TG, C1-C5 100

0 TG, C1-C5 100



LS: wht-tan-gry, vfxln, dense, minor  
cht, sl chalky, NS

LS: as above

**MUNCIE CRK 4233 (-1171)**

SH: blk, carb

LS: crm-brn, vfxln, dense, mottled  
w/abund multicol shales, NS

LS: wht-brn-gry, vfxln, dense, chalky,  
cherty, NS

SH: blk-gry-grn-red

LS: crm-brn-gry, vfxln, dense, sl cht, sl  
chalky, NS

SH: gry-red-grn-blk

LS: crm-brn-gry, vfxln, chalky, mostly  
dense, mottled, NS

**STARK 4315 (-1253)**

SH: blk, carb

LS: wht-brn-gry, vfxln, dense, sl foss,  
chalky, NS

LS: crm-tan-gry, vfxln, dense, sl foss,  
chalky, NS

**HUSHPUCKNEY 4350** —Short trip @ 4350'  
**(-1288)**

SH: blk, carb

LS: crm-tan-gry, vfxln, dense, chalky,  
NS

LS: as above

**BKC 4381 (-1319)**

SH: blk-red-grn

LS: wht-gry w/abund red shale & gry  
slst, NS (wash red)

as above

**MARMATON 4418 (-1356)**

LS: crm-tan-gry, vfxln, dense, chalky,  
NS

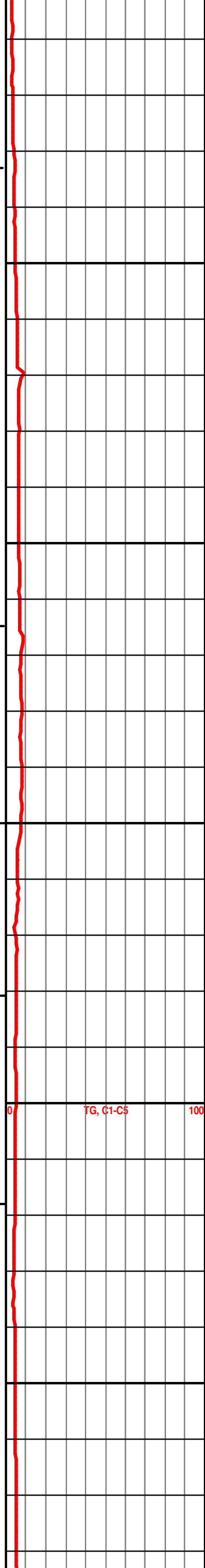
SH: red-blk-gry-grn

LS: wht-gry, vfxln, dense, sl chalky, NS

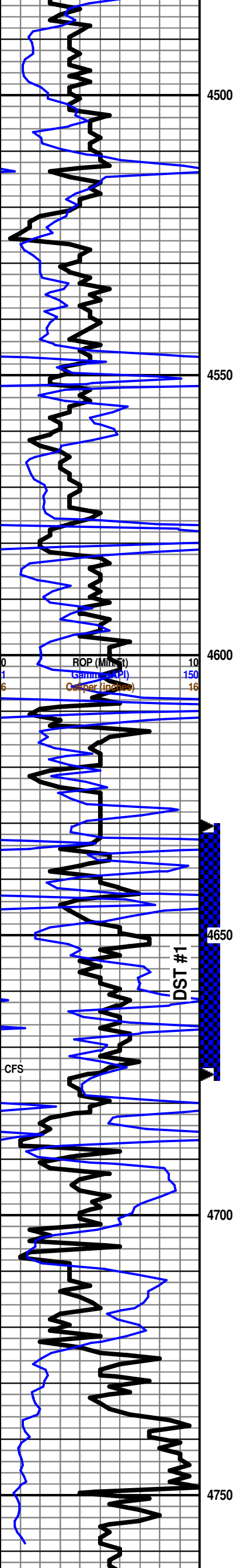
LS: as above

SH: blk-gry-grn

LS: crm-tan-gry, vfxln, dense, sl  
chalky, NS



TG, C1-C5 100



LS: wht-tan-gry, vfxln, dense, sl chalky,  
NS (w/blk shale)

LS: crm-tan-brn, vfxln, dense, chalky,  
NS

LS: as above

SH: blk-gry-grn

LS: wht-tan-gry, vfxln, v. dense, chalky,  
cherty, NS

MYRICK STA 4552 (-1490)

SH: blk-gry-grn

LS: wht-tan-gry, vfxln, v. dense, chalky,  
cherty, NS

SH: blk-gry-red-brn

FT SCOTT 4583 (-1521)

LS: wht-tan, vfxln, dense, chalky, NS

LS: as above

CHEROKEE 4609 (-1547)

SH: blk, carb

LS: crm-tan-brn-gry, vfxln, dense, sl  
chalky, NS

LS: as above

SH: blk-gry-brn-grn

JOHNSON 4641 (-1579)

LS: crm-tan, vfxln, dense, sl chalky,  
cherty, NS

DST #1 4630-4674 (Johnson Zone)

30:30:30:30

IF: 1/4" blow, NR

FF: NB, NR

Recovery: 5' Mud w/oil spots

IHP: 2336 FHP: 2289

IFP: 25-26 ISIP: 43

FFP: 26-28 FSIP: 36

BHT - 117 F

LS: crm-tan-brn, vfxln, dense, cherty,  
NS

LS: as above w/tr lite str, nsfo, sl odor

LS: crm-tan-brn, vfxln, dense, chalky,  
NS

LS: as above

SH: gry-blk-grn-red

Sst: clr, v fgr, mostly friable, well-std,  
sub-rd, NS (w/abund shale as above)

SST & SH: as above

SST & SH: as above

SH: blk-grn-brn-yel-red

MISS 4726 (-1664)

LS: wht-tan, vfxln, dense, chalky,  
pelletal, NS

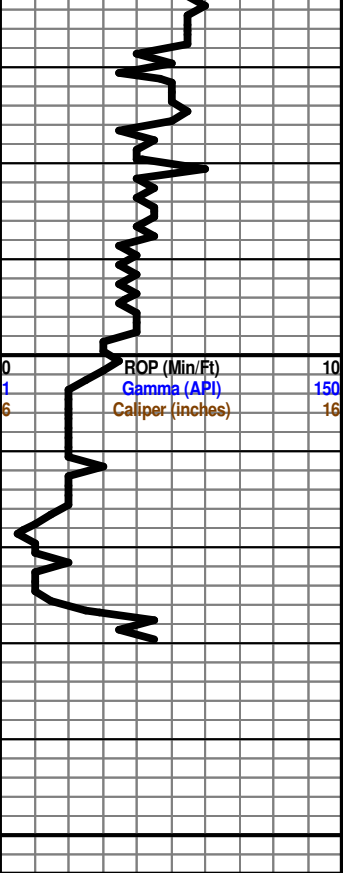
LS: wht-tan, vfxln, v. dense, cherty,  
chalky, pelletal, NS

LS: wht-tan, vfxln, v. dense, cherty,  
chalky, pelletal, NS

0 100 TG, C1-C5

DST #1

CFS



4800

4850

LS: wht-tan, vfxln, v. dense, cherty, chalky, pelletal, NS

LS: wht-gry, vfxln, dense, chalky, NS

LS: as above

DOL: brn, vfxln, sucrosic, dense, NS

DOL: brn, vfxln, sucrosic, dense, NS

DOL: brn, vfxln, sucrosic, dense, NS

RTD - 4830'

LTD - 4831'

