



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1265031
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: _____



1265031

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

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> _____ <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Culbreath Oil & Gas Company, Inc.
Well Name	Baker 1-22
Doc ID	1265031

Tops

Name	Top	Datum
Ahnydrite	2388	+614
Base Anhy	2408	+594
Topeka	3622	-620
Heebner	3852	-850
Toronto	3870	-868
Lansing	3900	-898
Muncie	4061	-1059
Stark	50	-1148
Hushp	4193	-1191
BKC	4227	-1225
Marmaton	4174	1272
Pawnee	4368	-1366
Fort Scott	4422	-1420
Cherokee	4450	-1448
Miss	4609	-1607



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: Baker #1-22

API: 15-109-21426-00-00

Location: Logan County

License Number: 34344

Region: Kansas

Spud Date: 8/9/15

Drilling Completed: 8/19/15

Surface Coordinates: 518' FSL & 220' FEL (Approx. N/2 SE SE SE)

Section 22-T14S-R34W

Bottom Hole Vertical well, same as above

Coordinates:

Ground Elevation (ft): 2997'

K.B. Elevation (ft): 3002'

Logged Interval (ft): 3500'

To: TD

Total Depth (ft): LTD - 4684' RTD - 4680'

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 Oil & Gas Co, LLC

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

GEOLOGIST

Name: Steven P. Murphy, PG (KS License #228)

Company: Consulting Petroleum Geologist

**Address: 3365 CR 390
Otis, KS 67565**

REMARKS

Halliburton performed the open-hole wireline logging with stacked Dual Compensated Porosity, Dual Induction, and Microresistivity Logs.

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

Anhydrite Top - 2388 (+614)
Anhydrite Base - 2408 (+594)
Topeka - 3622 (-620)
Heebner - 3852 (-850)
Toronto - 3870 (-868)
Lansing - 3900 (-898)
Muncie Creek - 4061 (-1059)
Stark - 4150 (-1148)
Hushpuckney - 4193 (-1191)
Base KC - 4227 (-1225)
Marmaton - 4274 (-1272)
Altamont - 4296 (-1294)
Pawnee - 4368 (-1366)
Myrick Station - 4410 (-1408)
Fort Scott - 4422 (-1420)
Cherokee - 4450 (-1448)
Johnson Zone - 4493 (-1491)
Morrow Shale - 4559 (-1557)
Morrow Sst - 4595 (-1593)
Mississippian - 4609 (-1607)

DSTs

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

DST #1 4300-4336 (Altamont)

15:30:15:30

IF: Wk blow died in 12 min, NR

FF: Wk blow died in 3 min, NR

Recovery: 40' M w/oil spots

IHP: 2169 FHP: 2071

IFP: 39-47 ISIP: 58

FFP: 49-48 FSIP: 51

BHT - 105 F

DST #2 4386-4434 (Paw-Myrick Sta)

15:30:15:30

IF: 1/4" blow died 9 min, NR

FF: No blow, NR

Recovery: 2' Mud

IHP: 2193 FHP: 2086

IFP: 24--26 ISIP: 49

FFP: 25-27 FSIP: 36

BHT - 110 F

DST #3 Straddle 4454-4520 (Cher-Johnson)

15:30:15:30

IF: 1/4" blow died back to surf blow, NR

FF: Weak surface blow, NR

Recovery: 120' Mud

IHP: 2341 FHP: 2206

IFP: 60-81 ISIP: 1248

FFP: 85-95 FSIP: 1235

BHT - 115 F

COMMENTS

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

Deviation surveys were taken at the following depths:

- 303' - 1/2 deg
- 1015' - 1/2 deg
- 1485' - 1/2 deg
- 1988' - 1/4 deg
- 2490' - 1/4 deg
- 2991' - 3/4 deg
- 3494' - 3/4 deg
- 3994' - 1 deg
- 4334' - 1 deg
- 4680' - 1 1/4 deg

Pipe was strapped @4336' (DST #1) - 0.15' long to board. No corrections were made to the geolograph and/or the mudlog.

Well samples were collected for the Kansas Well Sample Library.

Based on negative results of DSTs & log/sample analysis, it was recommended that this test be plugged.

Respectfully submitted,

Steven P. Murphy, PG
Kansas License #228

ROCK TYPES

LITHOLOGY

- Anhy
- Bent
- Brec
- Cht
- Clyst
- Coal
- Congl
- Dol
- Gyp
- Igne
- Lmst
- Meta
- Mrlst
- 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

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MINERAL

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

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STRINGER

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

-
-

TEXTURE

- Boundst
- Chalky
- Cryxln
- Earthy
- Finexln
- Grainst
- Lithogr
- Microxln
- Mudst
- Packst
- Wackst

OIL SHOW

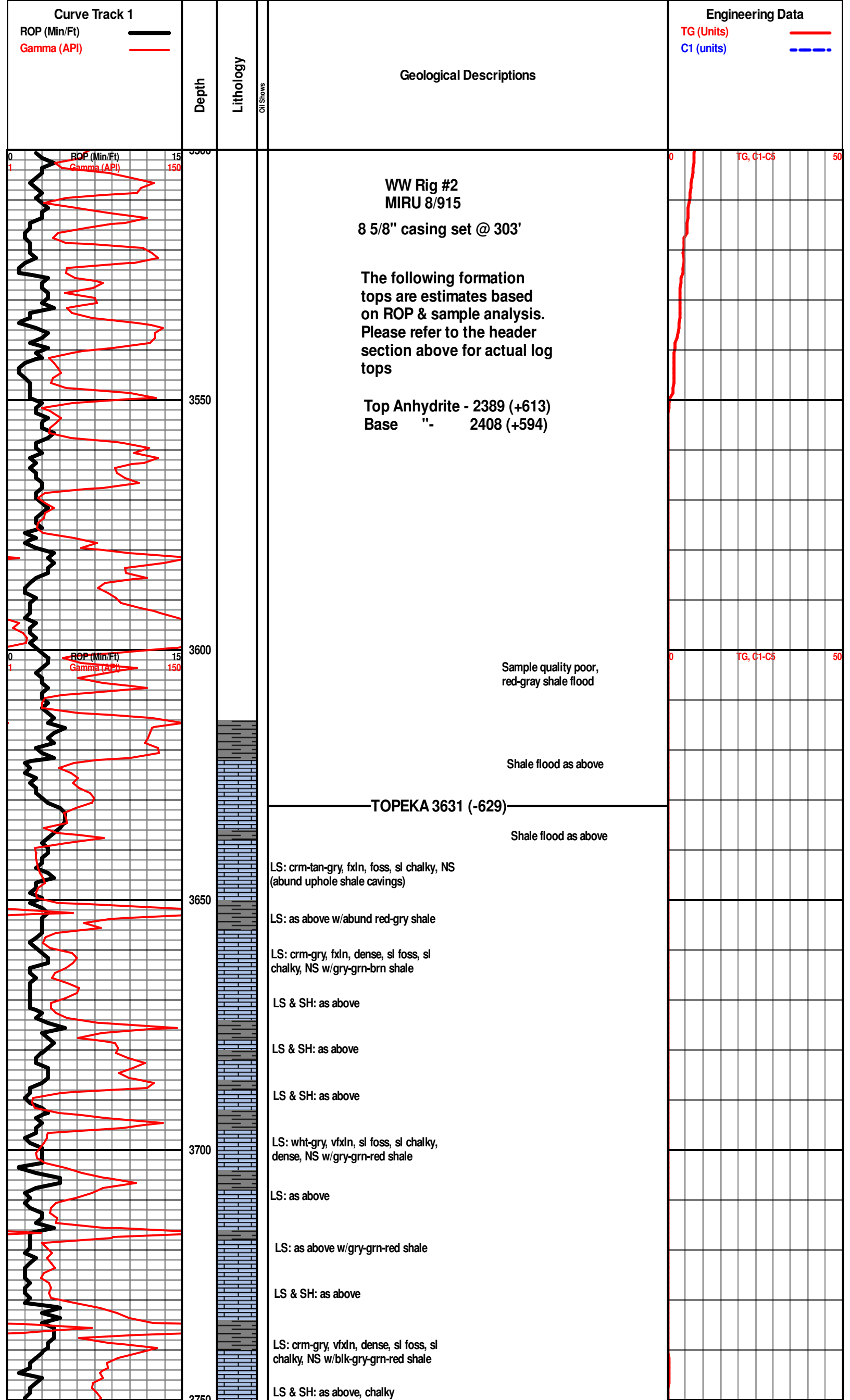
- Gas show
- Good
- Fair
- Poor
- Dead

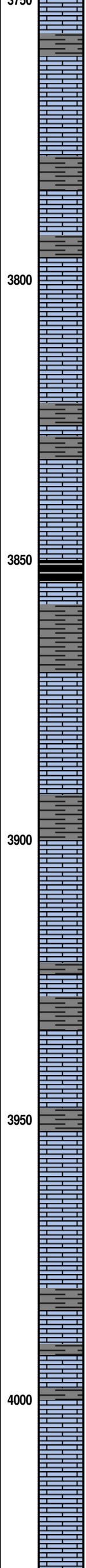
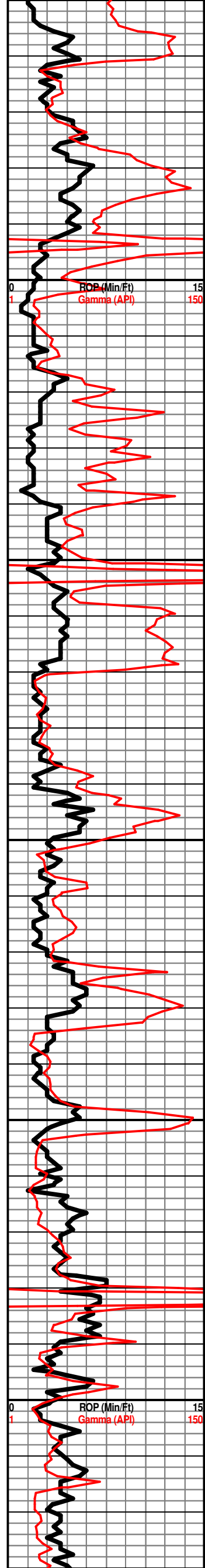
INTERVAL

- Dst
- Core
- Dst
- Straddle test tail pipe

EVENT

- Rft
- Sidewall
- Dst
- Open hole
- Perforations





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

LS & SH: as above

SH: blk-red-gry-grn

LS: crm-gry, vfxln, dense, foss, sl chalky, NS w/shale as above

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

LS: crm-brn-gry, fxln, ool, sl foss, chalky, NS

SH: blk-gry-grn-red

LS: wht-tan-gry, fxln, ool, chalky, NS

LS: wht-tan-gry, vfxln, dense, cherty, chalky, NS w/dk gry-brn-grn sh

LS: as above

HEEBNER 3851 (-849)

SH: blk, carb

SH: gry-grn-red

TORONTO 3871 (-869)

LS: wht-crm-gry, fxln, ool, fr inxln & vug por, sl chalky, NS

LS: as above

SH: blk-gry-red-brn

LANSING 3899 (-897)

LS: wht-brn-gry, fxln, ool in pt, mostly dense, rare fr vug por, chalky, NS

LS: as above

SH: blk-brn-grn-gry-red

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

LS: as above w/some oolitic, NS

SH: blk-brn-grn-red

LS: wht-crm-gry, f-vfxln, mostly dense, rare fr vug por, sl ool, chalky, NS

LS: as above, dense, NS

SH: blk-brn-gry-red

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

LS: crm-gry, fxln, fr vug por, chalky, NS

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

LS: as above w/blk-gry shale, NS

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

Short trip @ 3800'

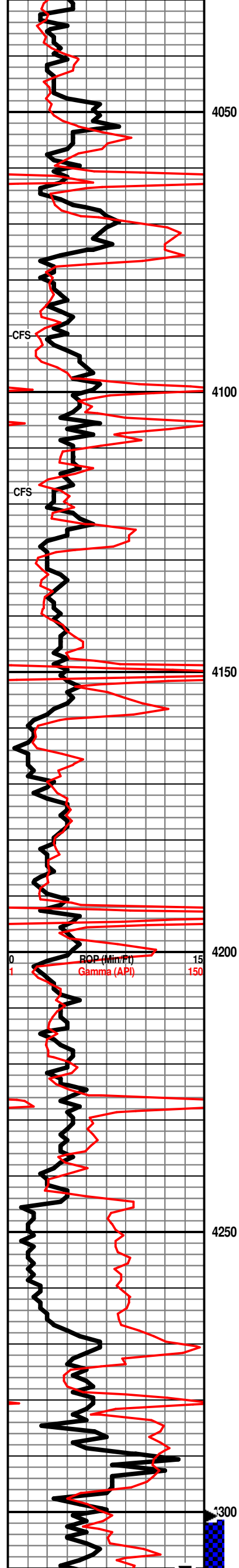
FG, C1-C5

ROP (Min/Ft) 0 15
Gamma (API) 1 150

0 50

ROP (Min/Ft) 0 15
Gamma (API) 1 150

0 50



NS

LS: as above

4050

MUNCIE CRK 4054 (-1052)

SH: blk, carb

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

SH: gry-blk-grn

LS: crm-tan-gry, fxlN, dense, sl ool, chalky, NS

LS: as above

SH: gry-blk-grn-red

CFS

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

4100

LS: crm-brn-gry, vfxln, dense, sl chalky, NS w/blk-gry shale

CFS

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

LS: crm-tan-gry, fxlN, ool, mostly dense, rare fr vug por, chalky, minor chert, NS

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

4150

LS: as above w/abund blk-gry-grn-brn-red

STARK 4163 (-1161)

LS: wht-tan-brn, vfxln, dense, NS w/blk shale

LS: crm-brn-gry, vfxln, dense, sl chalky, NS w/shale as above

LS: wht-tan-gry, fxlN, mostly dense, rare fr-gd inxln & vug por, sl chalky, NS

HUSHPUCKNEY 4189 (-1187)

SH: blk, carb

LS: wht-tan-brn-gry, v-mxln, dense, rare fr inxln por, sl chalky, NS

4200

LS: crm-tagry, f-mxln, mostly dense w/rare fr inxln por, sl chalky, cherty, NS

BKC 4221 (-1219)

SH: blk-gry-brn-grn-red

LS: crm-brn-gry, vfxln, dense, chalky, NS w/shale as above

LS & SH: as above

4250

LS & SH: as above

LS & SH: as above w/red & grn slst

MARMATON 4269 (-1267)

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

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

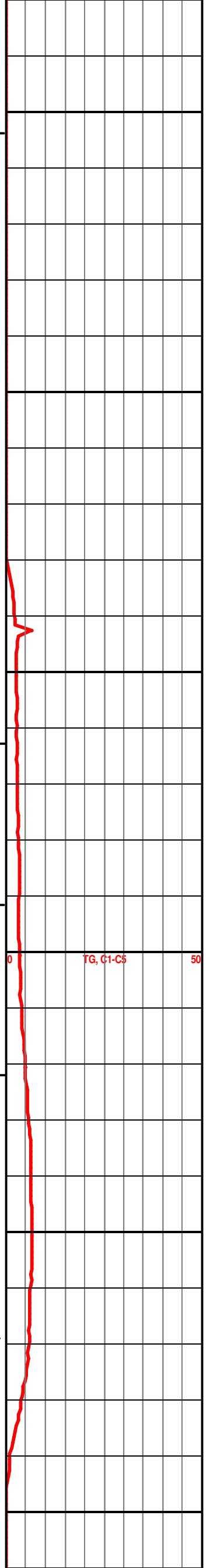
SH: gry-blk-brn-red

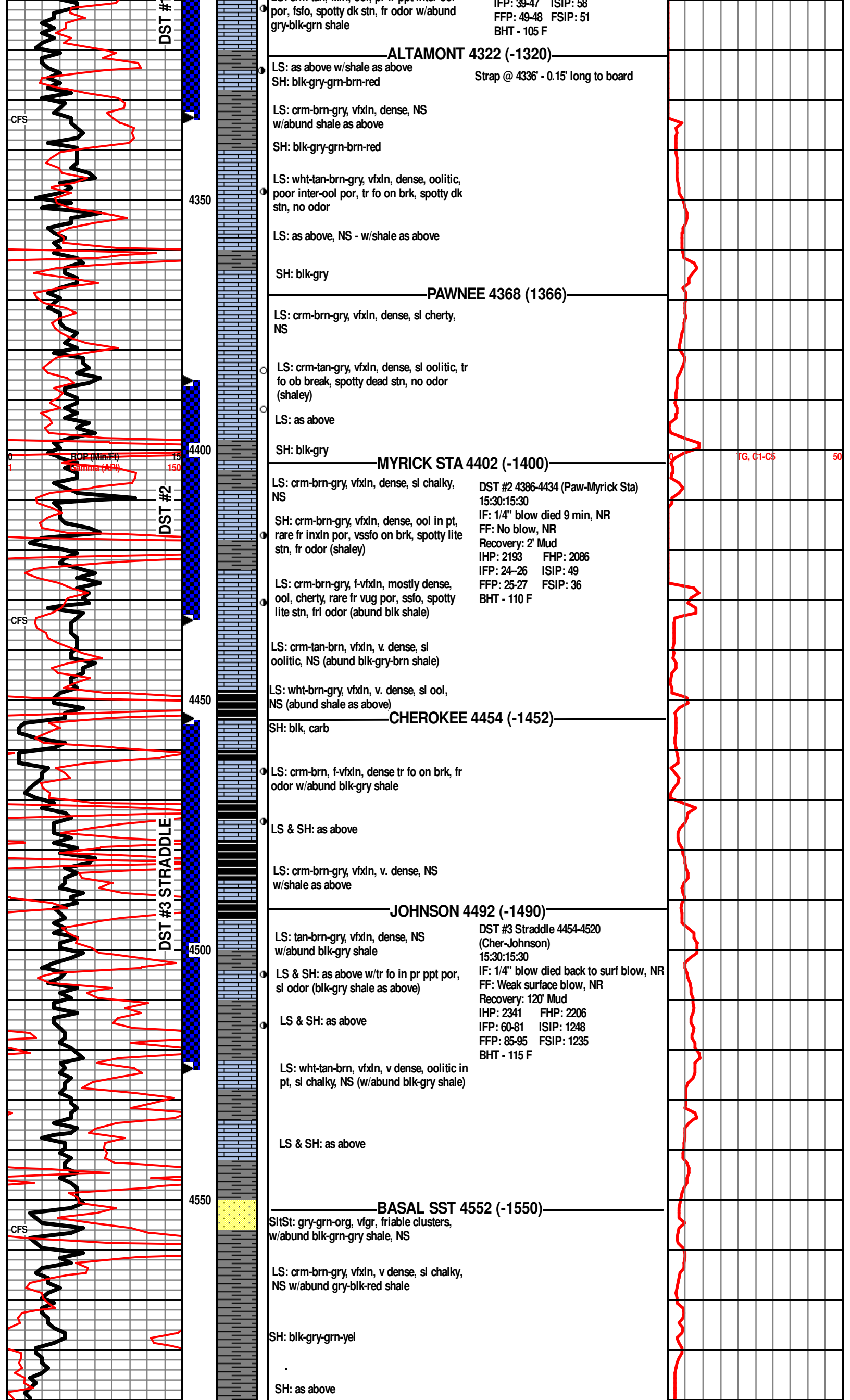
LS: crm-brn-gry, vfxln, dense, sl chalky/cherty, NS

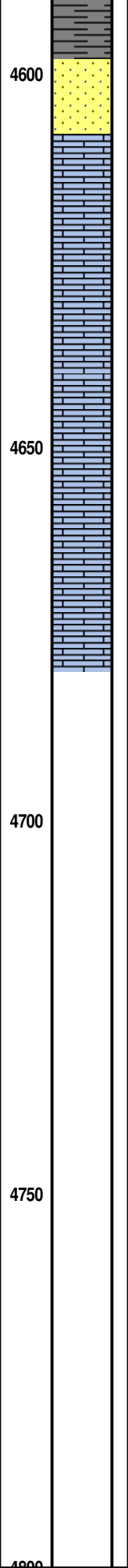
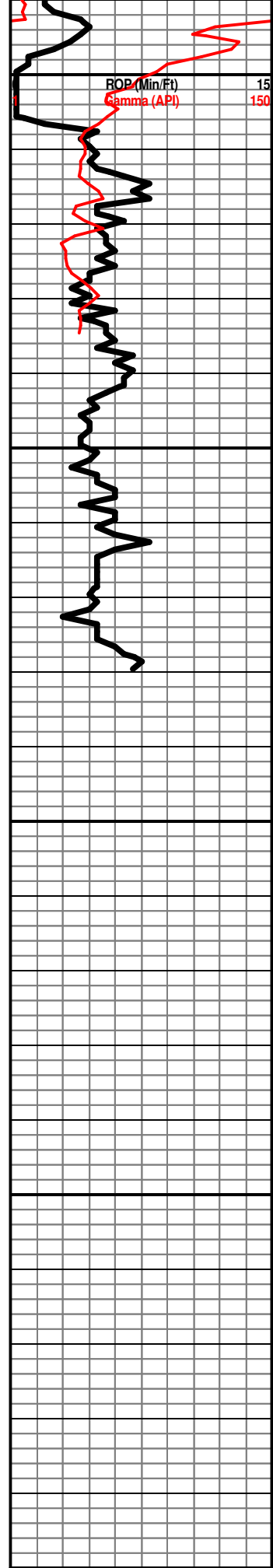
4300

LS: crm-tan, fxlN, ool, pr-fr ool/inter-ool

DST #1 4300-4336 (Altamont)
 15:30:15:30
 IF: Wk blow died in 12 min, NR
 FF: Wk blow died in 3 min, NR
 Recovery: 40' M w/oil spots
 IHP: 2169 FHP: 2071
 IFF: 21.75 IAP: 50







Sst: dr-wht-grn, firm-friable clusters,
fine-coarse gr, abund chert, NS

SH: gry-grn-blk w/interbedded Sst
MISS 4614 (-1612)

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

LS: as above

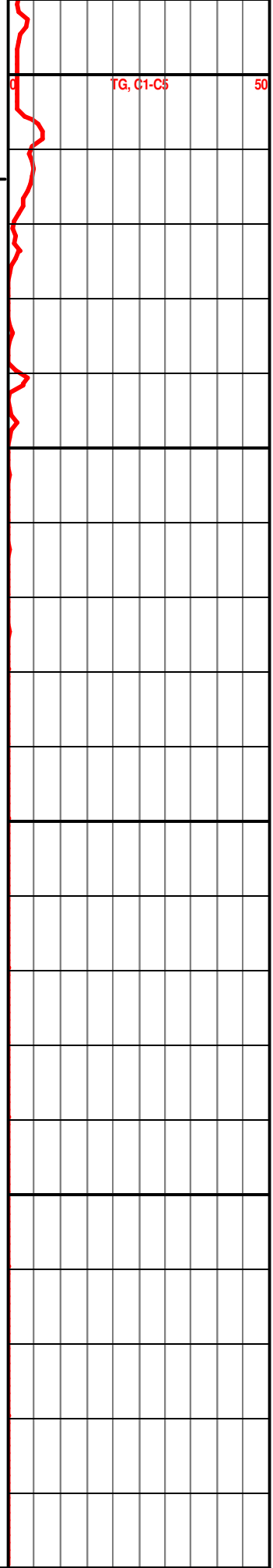
LS: as above

LS: crm-brn-gry, vfxln, v. dense, chalky,
NS

LS: as above

LS: as above

RTD - 4680'
LTD - 4684'





**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Culbreath Oil & Gas

22-14s-34w Logan, Ks

3501 S. Yale Ave
Tulsa, Ok
74135-8014
ATTN: Steve Murphy

Baker #1-22

Job Ticket: 45502

DST#: 1

Test Start: 2015.08.17 @ 05:30:45

GENERAL INFORMATION:

Formation: **Altamont**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 07:23:45

Time Test Ended: 10:55:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Shane McBride

Unit No: 84

Interval: 4300.00 ft (KB) To 4336.00 ft (KB) (TVD)

Reference Elevations: 3002.00 ft (KB)

Total Depth: 4336.00 ft (KB) (TVD)

2997.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8844 Inside

Press@RunDepth: 48.88 psig @ 4305.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.08.17

End Date:

2015.08.17

Last Calib.: 2015.08.17

Start Time: 05:30:45

End Time:

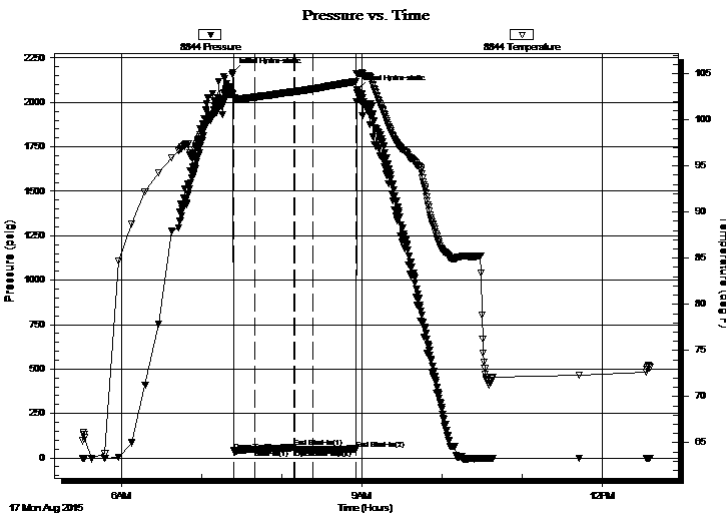
12:35:30

Time On Btm: 2015.08.17 @ 07:23:15

Time Off Btm: 2015.08.17 @ 08:56:30

TEST COMMENT: 1/8" in blow at open, died in 12 min.
No return
Weak surface blow, died in 3 min.
No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2169.37	102.85	Initial Hydro-static
1	39.59	102.38	Open To Flow (1)
16	47.68	102.45	Shut-In(1)
46	58.42	103.06	End Shut-In(1)
46	49.96	103.05	Open To Flow (2)
60	48.88	103.36	Shut-In(2)
93	51.15	104.17	End Shut-In(2)
94	2071.59	105.01	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
40.00	mud 100% m oil spots in tool	0.20

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Culbreath Oil & Gas

22-14s-34w Logan, Ks

3501 S. Yale Ave
Tulsa, Ok
74135-8014

Baker #1-22

Job Ticket: 45502

DST#: 1

ATTN: Steve Murphy

Test Start: 2015.08.17 @ 05:30:45

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:

0 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.78 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 15000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
40.00	mud 100% oil spots in tool	0.197

Total Length: 40.00 ft Total Volume: 0.197 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

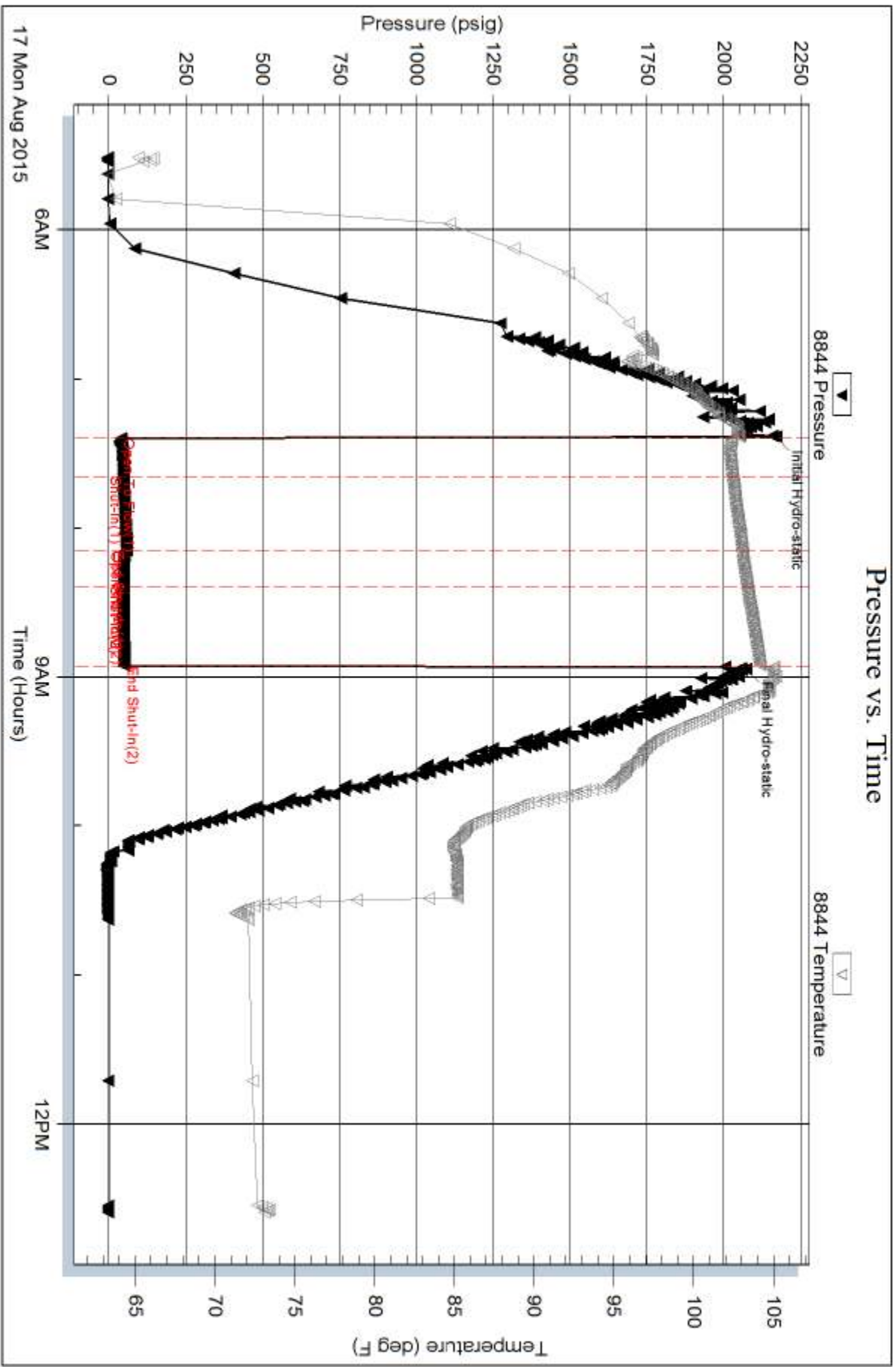
Serial #: 8844

Inside

Culbreath Oil & Gas

Baker #1-22

DST Test Number: 1





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Culbreath Oil & Gas

22-14s-34w Logan, Ks

3501 S. Yale Ave
Tulsa, Ok
74135-8014
ATTN: Steve Murphy

Baker #1-22

Job Ticket: 45503

DST#: 2

Test Start: 2015.08.18 @ 01:35:54

GENERAL INFORMATION:

Formation: **Pawnee-Myrick Sta**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 02:59:39

Time Test Ended: 06:10:09

Test Type: Conventional Bottom Hole (Reset)

Tester: Shane McBride

Unit No: 84

Interval: 4386.00 ft (KB) To 4434.00 ft (KB) (TVD)

Reference Elevations: 3002.00 ft (KB)

Total Depth: 4434.00 ft (KB) (TVD)

2997.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6771 Outside

Press @ Run Depth: 27.21 psig @ 4387.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.08.18

End Date: 2015.08.18

Last Calib.: 2015.08.18

Start Time: 01:35:54

End Time: 06:03:09

Time On Btm: 2015.08.18 @ 02:59:24

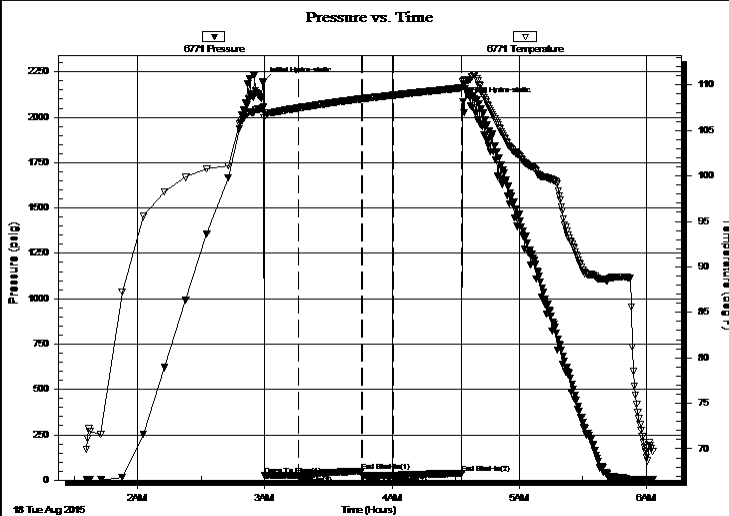
Time Off Btm: 2015.08.18 @ 04:33:24

TEST COMMENT: 1/4" in blow died in 9 min.

No return

No blow

No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2193.87	107.57	Initial Hydro-static
1	24.92	106.40	Open To Flow (1)
17	26.01	107.47	Shut-In(1)
47	49.16	108.49	End Shut-In(1)
47	25.06	108.49	Open To Flow (2)
62	27.21	108.88	Shut-In(2)
94	36.24	109.69	End Shut-In(2)
94	2086.39	110.37	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	mud 100% m	0.01

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Culbreath Oil & Gas

22-14s-34w Logan, Ks

3501 S. Yale Ave
Tulsa, Ok
74135-8014

Baker #1-22

Job Ticket: 45503

DST#: 2

ATTN: Steve Murphy

Test Start: 2015.08.18 @ 01:35:54

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:

0 ppm

Viscosity: 46.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.76 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 10000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	mud 100%m	0.010

Total Length: 2.00 ft Total Volume: 0.010 bbl

Num Fluid Samples: 0

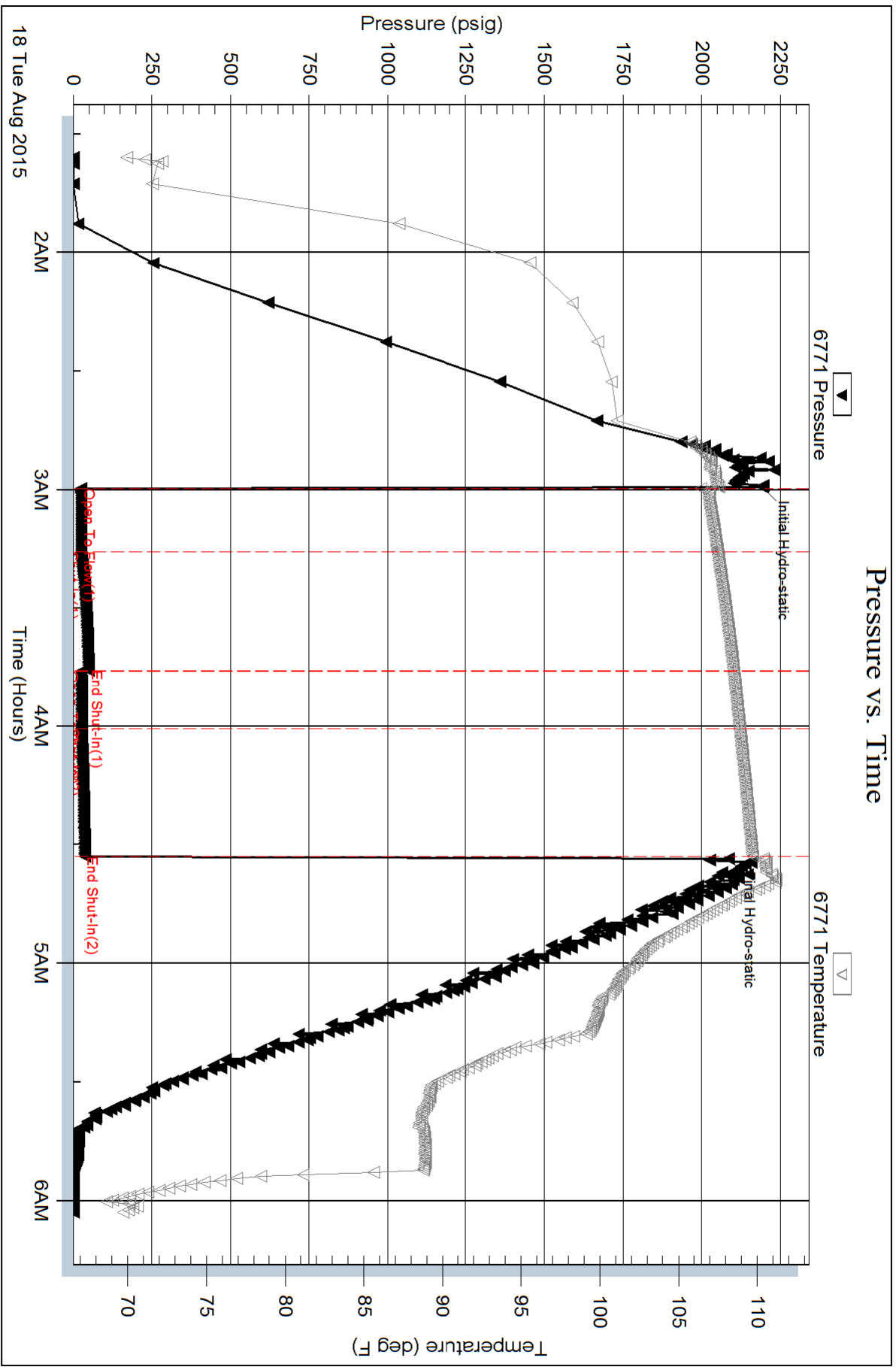
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





REMIT TO
 Consolidated Oil Well Services, LLC
 Dept:970
 P.O.Box 4346
 Houston, TX 77210-4346

MAIN OFFICE

P.O.Box884
 Chanute, KS 66720
 620/431-9210, 1-800/467-8676
 Fax 620/431-0012

Invoice Invoice# 805448

Invoice Date: 08/21/15 Terms: Net 30 Page 1

CULBREATH OIL & GAS CO.INC

3501 South Yale Aveune
 TULSA OK 74135
 USA
 9187493508

BAKER 1-22

Part No	Description	Quantity	Unit Price	Discount(%)	Total
CE0450	Cement Pump Charge 0 - 1500'	1.000	1,500.0000	30.000	1,050.00
CE0002	Equipment Mileage Charge - Heavy Equipment	30.000	7.1500	30.000	150.15
CE0710	Cement Delivery Charge	1.000	541.8000	30.000	379.26
CC5829	Lite-Weight Blend V (60:40:4)	240.000	16.0000	30.000	2,688.00
CC6075	Celloflake	60.000	2.0000	30.000	84.00
CP8228	8 5/8" Wooden Plug	1.000	165.0000	30.000	115.50
Subtotal					6,381.30
Discounted Amount					1,914.39
SubTotal After Discount					4,466.91
Amount Due 6,711.30 If paid after 09/20/15					

Tax: 231.00
 Total: 4,697.91

12A

39172

330A



CONSOLIDATED
Oil Well Services, LLC

PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8676

TICKET NUMBER 49516
LOCATION Oakley, KS
FOREMAN Jeremy Richesin
Jerry Yates
KS

3908
INVOICE #85448

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
8/20/16	2777	Baker 1-22	22	14S	34W	Logan
CUSTOMER			TRUCK #			
MAILING ADDRESS			DRIVER			
CITY			TRUCK #			
STATE			DRIVER			
ZIP CODE			TRUCK #			
			DRIVER			

CULbreath

moment
S to confirm
W to 2032e
N into

TRUCK #	DRIVER	TRUCK #	DRIVER
753	Mike R		
460	Lance R		
714			
703			

JOB TYPE Plug HOLE SIZE 7 1/8 HOLE DEPTH 400680 CASING SIZE & WEIGHT _____
 CASING DEPTH _____ DRILL PIPE 4 1/2 TUBING _____ OTHER _____
 SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT In CASING _____
 DISPLACEMENT _____ DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety meeting Rigged up on WW2 mixed 50 SKS @ 2390
Mixed 100 SKS @ 1300; Mixed 50 SKS @ 353 10 SKS @ 40' mixed 30 SKS in RH
8 5/8 wood plug

Thank You
Jeremy Jerry
& crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0450	1	PUMP CHARGE	1500.00	1500.00
CE0002	30	MILEAGE	7.15	214.50
CE0711	10.32	Tan Mileage	1.75	541.80
CE5829	240	Light weight Blend V (60:40:4)	1600.00	3840.00
CE6075	601b	FLO Seal	2.00	120.00
CP8228	1	8 5/8 Wood plug	165.00	165.00
			Subtotal	61381.30
			- 30% disc	1914.39
			Sub total	4466.91
			SALES TAX	231.00
			ESTIMATED TOTAL	4697.91

Flavin 3737

Logan

AUTHORIZATION _____ TITLE _____ DATE _____

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.



P.O. Box 205803
Dallas, TX 75320-5803

Voice: (832) 482-3742
Fax: (832) 482-3738

INVOICE

Invoice Number: 150527
Invoice Date: Aug 10, 2015
Page: 1

Federal Tax I.D.#: 20-8651475

Bill To:
Culbreath Oil & Gas Co., Inc. 3501 S Yale Ave Tulsa, OK 74135

Baker 1-22 *D15024*

Customer ID	Field Ticket #	Payment Terms	
Cul	67835	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Aug 10, 2015	9/9/15

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Baker #1-22		
190.00	CEMENT MATERIALS	Class A Common	17.90	3,401.00
357.00	CEMENT MATERIALS	Gel	0.50	178.50
536.00	CEMENT MATERIALS	Chloride	1.10	589.60
202.27	CEMENT SERVICE	Cubic Feet Charge	2.48	501.63
281.40	CEMENT SERVICE	Ton Mileage Charge	2.75	773.85
1.00	CEMENT SERVICE	Surface	1,512.25	1,512.25
30.00	CEMENT SERVICE	Pump Truck Mileage	7.70	231.00
30.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	132.00
1.00	JOB DISCOUNT	Job Discount if paid within terms -- Material	2,001.16	-2,001.16
1.00	JOB DISCOUNT	Job Discount if paid within terms -- Cement Service	1,512.36	-1,512.36
1.00	JOB DISCOUNT	Paul Beaver		
1.00	EQUIPMENT OPERATOR	Brandon Wilkinson		
1.00	EQUIPMENT OPERATOR	Wayne McGhghy		

160 Surface

81.5
Li

M

Add Discount to gross amount

SCANNED

Put Discount in in discount box

7493.27

-3513.52 Disc

<p>ALL PRICES ARE NET, PAYABLE 30 DAYS FOLLOWING DATE OF INVOICE. ONLY IF PAID ON OR BEFORE</p> <p>Aug 10, 2015</p> <p>1 1/2% CHARGED THEREAFTER.</p>	Subtotal	3,806.31
	Sales Tax	173.44
	Total Invoice Amount	3,979.75
	Payment/Credit Applied	
	TOTAL	3,979.75



ALLIED OIL & GAS SERVICES, LLC

Federal Tax I.D. #20-5975804

067835

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

SERVICE POINT: Oakley KS

DATE <u>8-10-15</u>	SEC. <u>32</u>	TWP. <u>14</u>	RANGE <u>34</u>	CALLED OUT	ON LOCATION <u>11:00 p.m.</u>	JOB START <u>8:00 p.m.</u>	JOB FINISH <u>8:30 p.m.</u>
LEASE <u>Baker</u>	WELL # <u>1-22</u>	LOCATION <u>Monument S to Indian</u>	COUNTY <u>Logan</u>		STATE <u>KS</u>		
OLD OR <u>NEW</u> (Circle one)			<u>Rd, 3w, Ninto</u>				

CONTRACTOR <u>W.W. 2</u>	OWNER <u>Same</u>
TYPE OF JOB <u>Surface</u>	
HOLE SIZE <u>12 1/4</u>	T.D. <u>303</u>
CASING SIZE <u>8 5/8</u>	DEPTH <u>302.46</u>
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	, SHOE JOINT
CEMENT LEFT IN CSG. <u>15</u>	
PERFS.	
DISPLACEMENT <u>18 bbl H₂O</u>	
EQUIPMENT	
PUMP TRUCK # <u>431</u>	CEMENTER <u>Paul Beaver</u>
	HELPER <u>Brandon Wilkinson</u>
BULK TRUCK # <u>891/287</u>	DRIVER <u>Wanda Maghghy</u>
BULK TRUCK #	DRIVER

CEMENT AMOUNT ORDERED <u>190 sks Com 3/4 CC</u>	
<u>2 1/2 gal</u>	
COMMON <u>190 sks @ 17.90</u>	<u>3401.00</u>
POZMIX @	
GEL <u>357# @ .50</u>	<u>178.50</u>
CHLORIDE <u>536# @ 1.10</u>	<u>589.60</u>
ASC @	
@	
@	
@	
@	
@	
@	
@	
@	
TOTAL	<u>4169.10</u>
DISCOUNT <u>48% 2001.16</u>	

REMARKS:
Mix 190 sks
Displace w/ water
cement did circ
5 bbl to pit
Thank you!
Paul + crew

CHARGE TO: Cul breath
 STREET _____
 CITY _____ STATE _____ ZIP _____

SERVICE	
HANDLING <u>202.27-14</u>	@ <u>2.48</u> <u>501.63</u>
MILEAGE <u>9.38 hrs x 30 mi x 2.75</u>	<u>773.85</u>
DEPTH OF JOB <u>303'</u>	
PUMP TRUCK CHARGE	<u>1512.25</u>
EXTRA FOOTAGE @	
HV MILEAGE <u>30 @ 7.70</u>	<u>231.00</u>
LV MILEAGE <u>30 @ 4.40</u>	<u>132.00</u>
@	
@	
TOTAL	<u>3150.73</u>
DISCOUNT <u>48% 1512.85</u>	

PLUG & FLOAT EQUIPMENT

@	
@	
@	
@	
@	
TOTAL	
DISCOUNT _____%	

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 Janice Kapp
 SIGNATURE [Signature]

SALES TAX (If Any) _____
 TOTAL CHARGES 7,319.83
 DISCOUNT 3,513.51 (48%) IF PAID IN 30 DAYS
 NET TOTAL 3,806.31 IF PAID IN 30 DAYS



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Culbreath Oil & Gas

22-14s-34w Logan, Ks

3501 S. Yale Ave
Tulsa, Ok
74135-8014
ATTN: Steve Murphy

Baker #1-22

Job Ticket: 45504

DST#: 3

Test Start: 2015.08.19 @ 13:33:30

GENERAL INFORMATION:

Formation: **Cherokee-Johnson**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 15:35:15

Time Test Ended: 19:30:00

Test Type: Conventional Straddle (Reset)

Tester: Shane McBride

Unit No: 84

Interval: 4450.00 ft (KB) To 4520.00 ft (KB) (TVD)

Reference Elevations: 3002.00 ft (KB)

Total Depth: 4680.00 ft (KB) (TVD)

2997.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6771 Outside

Press @ Run Depth: 95.44 psig @ 4451.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.08.19

End Date: 2015.08.19

Last Calib.: 2015.08.19

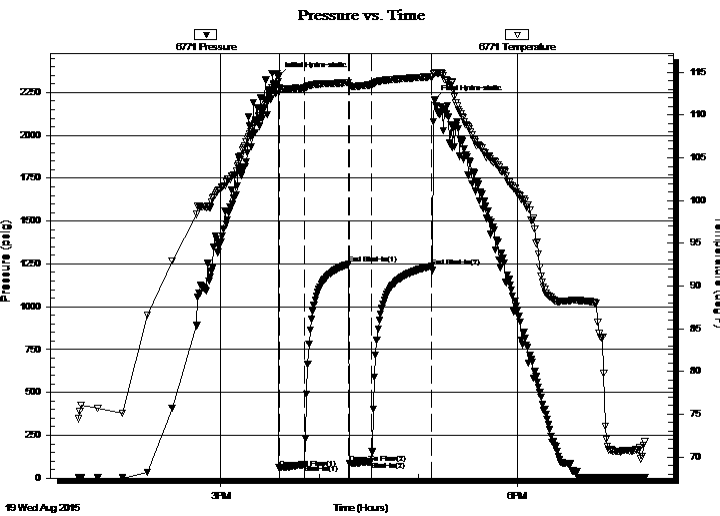
Start Time: 13:33:30

End Time: 19:18:00

Time On Btm: 2015.08.19 @ 15:35:00

Time Off Btm: 2015.08.19 @ 17:10:00

TEST COMMENT: 1/4" in blow died back to a weak surface blow
No return
Weak surface blow
No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2341.16	113.90	Initial Hydro-static
1	60.02	112.87	Open To Flow (1)
16	81.88	113.18	Shut-In(1)
43	1248.22	113.79	End Shut-In(1)
43	85.56	113.41	Open To Flow (2)
57	95.44	113.52	Shut-In(2)
93	1235.35	114.49	End Shut-In(2)
95	2206.62	114.88	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	mud 100% m	0.60

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Culbreath Oil & Gas

22-14s-34w Logan, Ks

3501 S. Yale Ave
Tulsa, Ok
74135-8014
ATTN: Steve Murphy

Baker #1-22

Job Ticket: 45504

DST#: 3

Test Start: 2015.08.19 @ 13:33:30

GENERAL INFORMATION:

Formation: **Cherokee-Johnson**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 15:35:15

Time Test Ended: 19:30:00

Test Type: Conventional Straddle (Reset)

Tester: Shane McBride

Unit No: 84

Interval: 4450.00 ft (KB) To 4520.00 ft (KB) (TVD)

Total Depth: 4680.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3002.00 ft (KB)

2997.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8353 Outside

Press @ Run Depth: psig @ 4525.00 ft (KB)

Start Date: 2015.08.19

End Date: 2015.08.19

Capacity: 8000.00 psig

Last Calib.: 2015.08.19

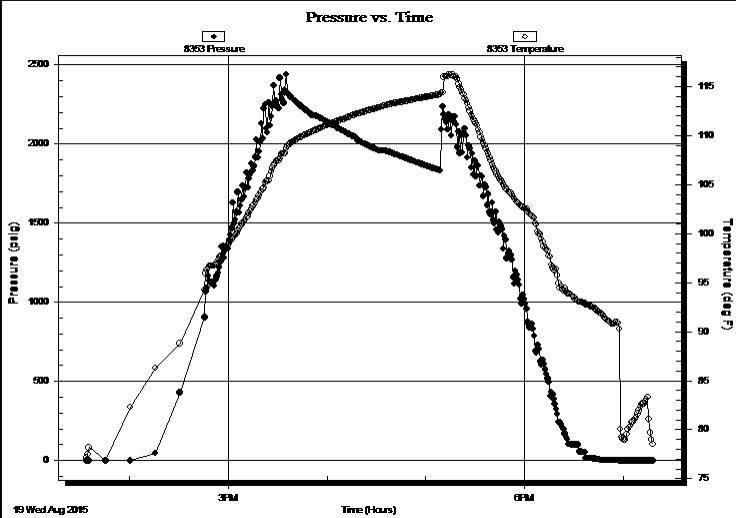
Start Time: 13:33:52

End Time: 19:18:22

Time On Btm:

Time Off Btm:

TEST COMMENT: 1/4" in blow died back to a weak surface blow
No return
Weak surface blow
No return



PRESSURE SUMMARY

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

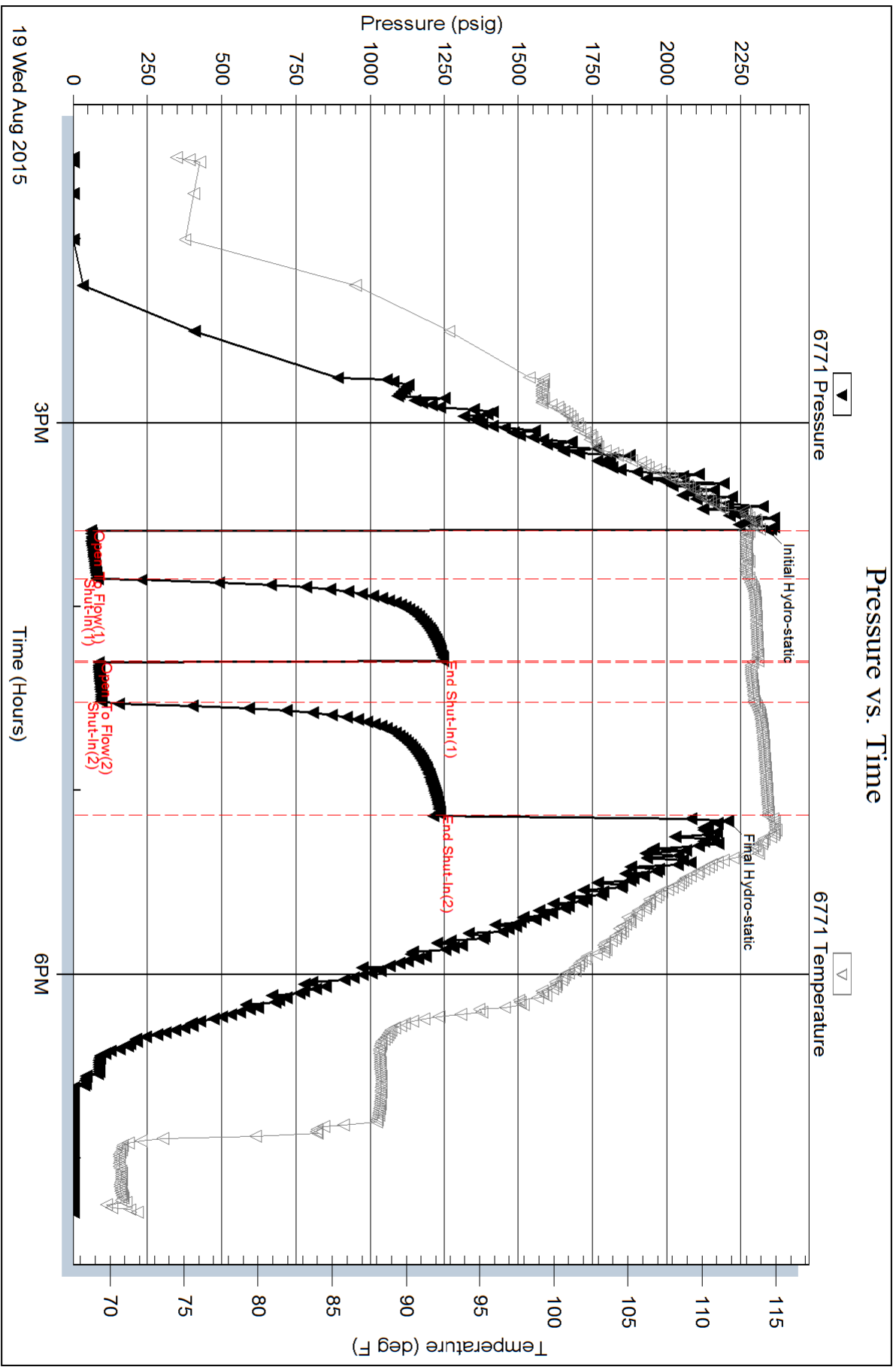
Recovery

Length (ft)	Description	Volume (bbl)
120.00	mud 100% m	0.60

* Recovery from multiple tests

Gas Rates

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



Serial #: 8353

Outside Culbreath Oil & Gas

Baker #1-22

DST Test Number: 3

