



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1249301
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: _____



1249301

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
--	---

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> _____
---	--

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: _____ _____
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Form	ACO1 - Well Completion
Operator	Culbreath Oil & Gas Company, Inc.
Well Name	Baalman 1-32
Doc ID	1249301

All Electric Logs Run

CND
DIL
Micro
Sonic

Form	ACO1 - Well Completion
Operator	Culbreath Oil & Gas Company, Inc.
Well Name	Baalman 1-32
Doc ID	1249301

Tops

Name	Top	Datum
Anhydrite	2512	+470
Base Anhydrite	2539	+443
Topeka	3757	-775
Heebner	3981	-999
Lansing	4017	-1035
BKC	4292	-1310
Pawnee	4419	-1437
Fort Scott	4493	-1512
Miss	4616	-1634



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Culbreath oil & gas company Inc

32-10s-30w Sheridan County

1532 S Peoria Ave
Tulsa Ok, 74120

Baalman 1-32

Job Ticket: 58635

DST#: 1

ATTN: Anthery Luna

Test Start: 2014.11.30 @ 00:23:00

GENERAL INFORMATION:

Formation: **LKC "D"**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 04:00:00

Time Test Ended: 11:42:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Justin Harris

Unit No: 58

Interval: 4065.00 ft (KB) To 4096.00 ft (KB) (TVD)

Reference Elevations: 2981.00 ft (KB)

Total Depth: 4096.00 ft (KB) (TVD)

2971.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 10.00 ft

Serial #: 6625 Outside

Press @ RunDepth: 146.81 psig @ 4092.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.11.30

End Date: 2014.11.30

Last Calib.: 2014.11.30

Start Time: 00:23:01

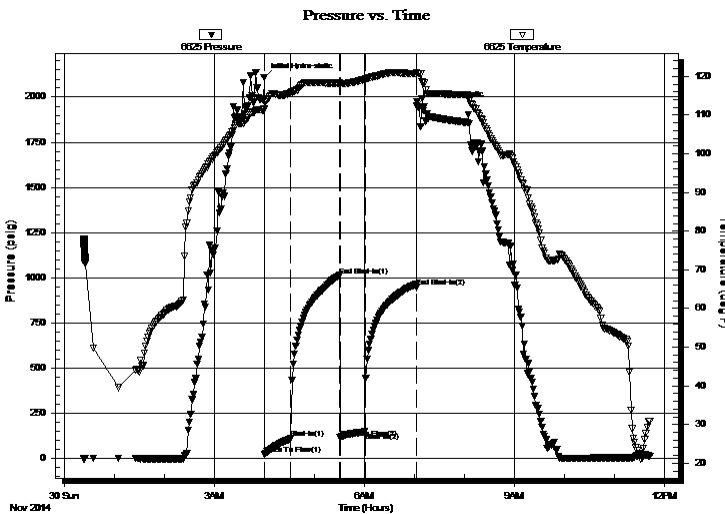
End Time: 11:42:00

Time On Btm: 2014.11.30 @ 03:59:30

Time Off Btm: 2014.11.30 @ 07:02:30

TEST COMMENT: 30: Weak Surface blow build to 5".
60: No Return.
30: Weak surface blow build to 4".
60: No Return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2107.08	111.54	Initial Hydro-static
1	19.59	111.37	Open To Flow (1)
32	109.57	115.73	Shut-In(1)
91	1011.89	118.29	End Shut-In(1)
91	113.25	117.90	Open To Flow (2)
121	146.81	119.22	Shut-In(2)
183	946.38	120.65	End Shut-In(2)
183	1953.79	120.85	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
252.00	mcw	1.27
15.00	mocw	0.21
1.00	clean oil	0.01

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Culbreath oil & gas company Inc

32-10s-30w Sheridan County

1532 S Peoria Ave
Tulsa Ok, 74120

Baalman 1-32

Job Ticket: 58635

DST#: 1

ATTN: Anthery Luna

Test Start: 2014.11.30 @ 00:23:00

GENERAL INFORMATION:

Formation: **LKC "D"**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 04:00:00

Time Test Ended: 11:42:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Justin Harris

Unit No: 58

Interval: 4065.00 ft (KB) To 4096.00 ft (KB) (TVD)

Reference Elevations: 2981.00 ft (KB)

Total Depth: 4096.00 ft (KB) (TVD)

2971.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 10.00 ft

Serial #: 8319

Press @ Run Depth: psig @ ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.11.30 End Date: 2014.11.30

Last Calib.: 2014.11.30

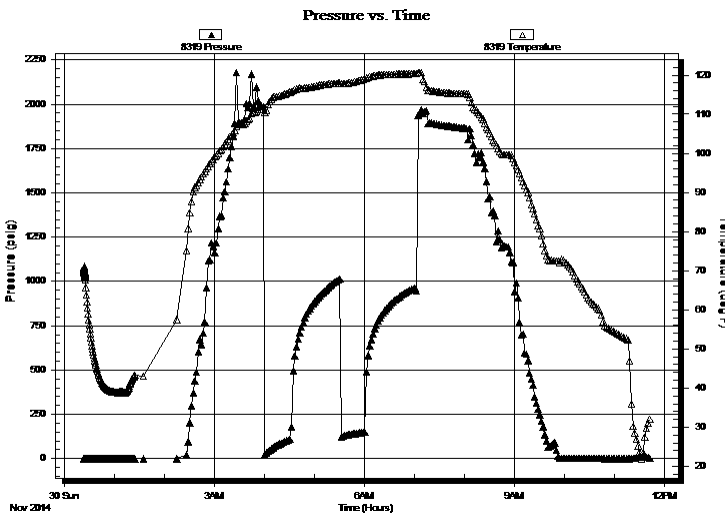
Start Time: 00:23:01 End Time: 11:42:30

Time On Btm:

Time Off Btm:

TEST COMMENT: 30: Weak Surface blow build to 5".
60: No Return.
30: Weak surface blow build to 4".
60: No Return.

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
252.00	mcw	1.27
15.00	mocw	0.21
1.00	clean oil	0.01

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Culbreath oil & gas company Inc

32-10s-30w Sheridan County

1532 S Peoria Ave
Tulsa Ok, 74120

Baalman 1-32

Job Ticket: 58635

DST#: 1

ATTN: Anthery Luna

Test Start: 2014.11.30 @ 00:23:00

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:

50000 ppm

Viscosity: 59.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
252.00	mcw	1.271
15.00	mocw	0.210
1.00	clean oil	0.014

Total Length: 268.00 ft Total Volume: 1.495 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

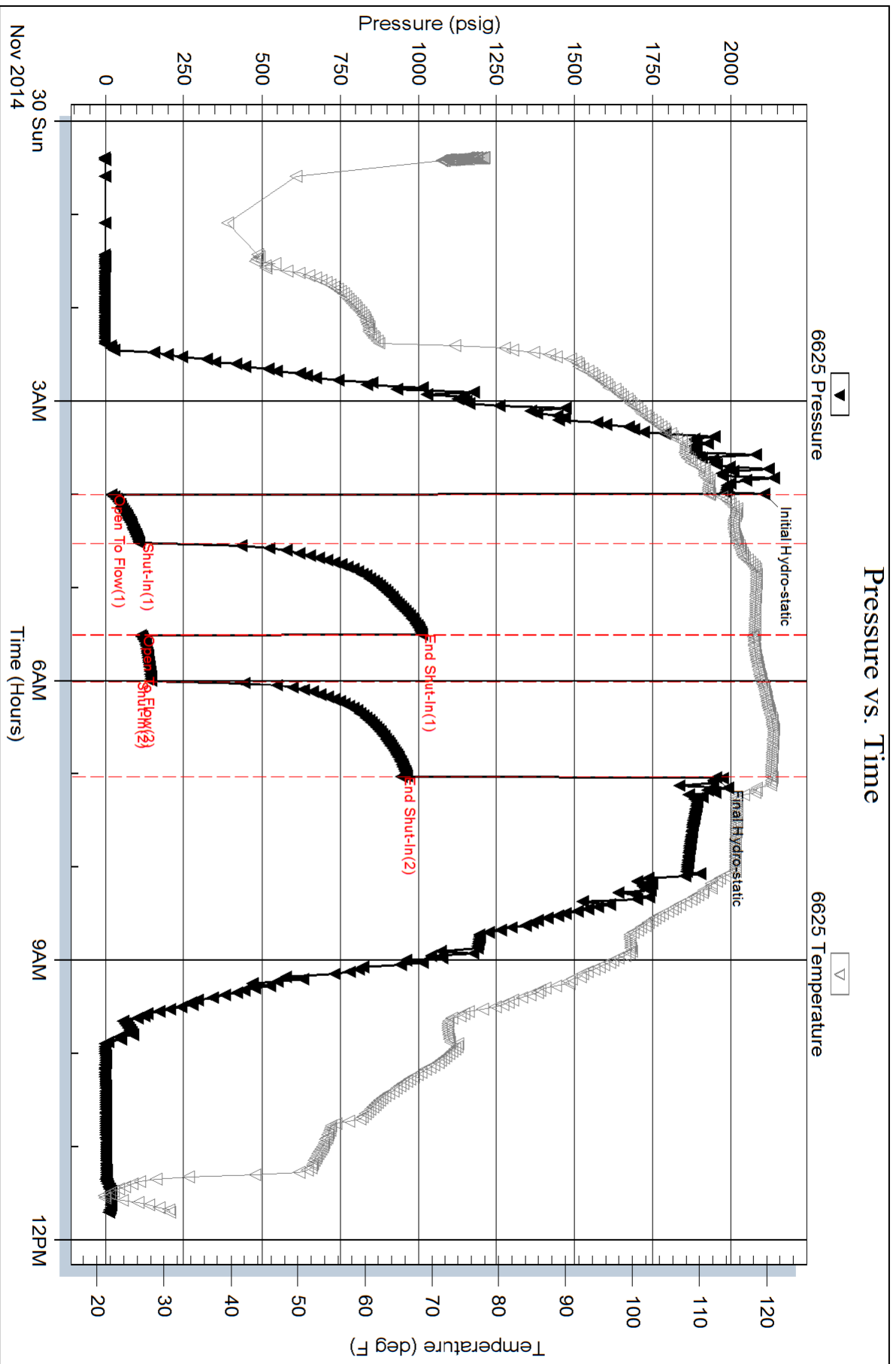
Serial #:

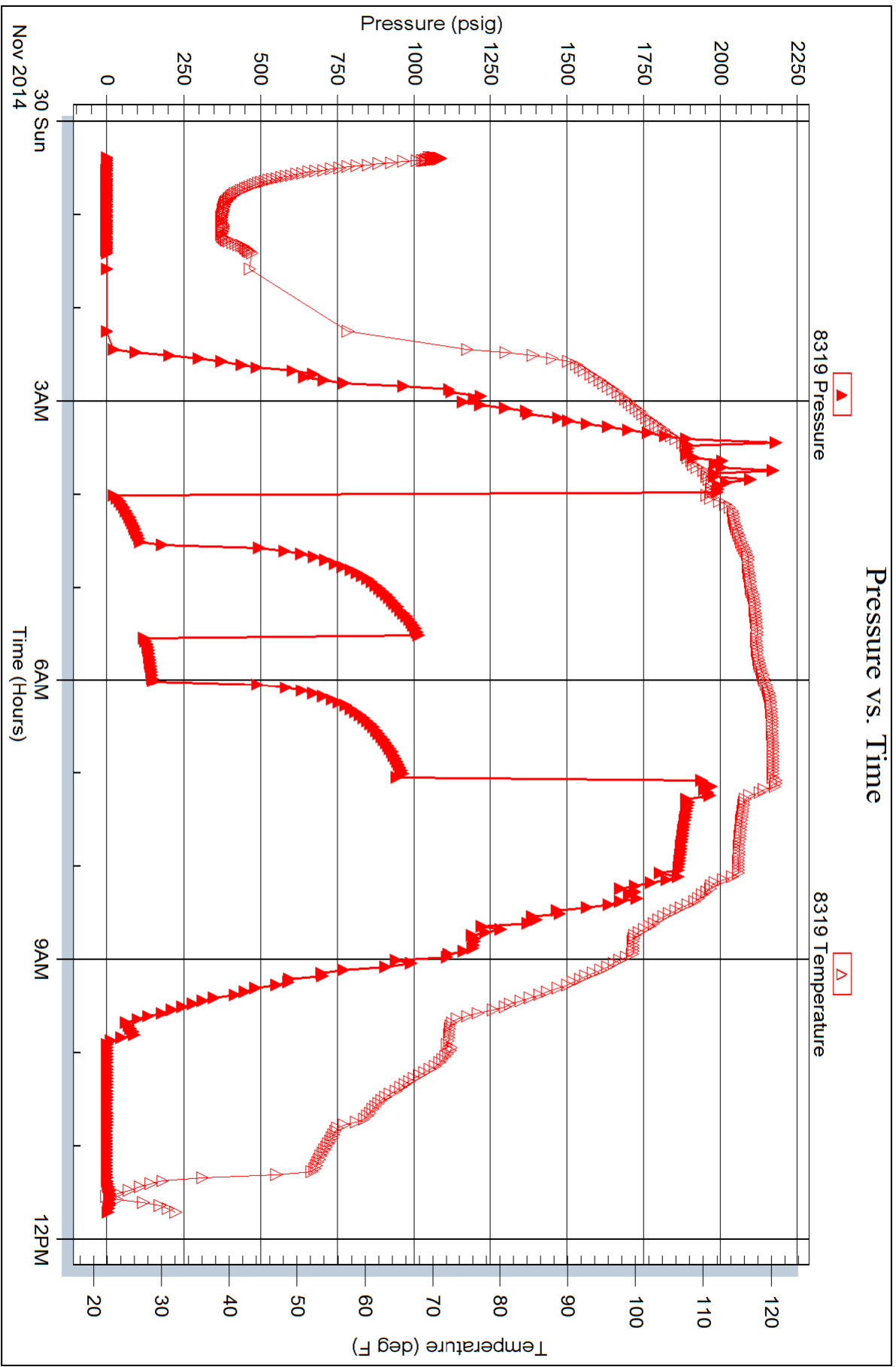
Laboratory Name:

Laboratory Location:

Recovery Comments: API .26 @ 33 F = 50000 chlorides

Pressure vs. Time







TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Culbreath oil & gas company Inc

32-10s-30w Sheridan County

1532 S Peoria Ave
Tulsa Ok, 74120

Baalman 1-32

Job Ticket: 58636

DST#: 2

ATTN: Anthery Luna

Test Start: 2014.12.01 @ 02:08:00

GENERAL INFORMATION:

Formation: **LKC "E,F"**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 07:01:30

Time Test Ended: 12:35:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Justin Harris

Unit No: 58

Interval: 4090.00 ft (KB) To 4114.00 ft (KB) (TVD)

Reference Elevations: 2981.00 ft (KB)

Total Depth: 4114.00 ft (KB) (TVD)

2971.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 10.00 ft

Serial #: 6625 Outside

Press@RunDepth: 30.27 psig @ 4110.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.12.01

End Date:

2014.12.01

Last Calib.:

2014.12.01

Start Time: 02:08:01

End Time:

12:35:30

Time On Btm:

2014.12.01 @ 07:01:00

Time Off Btm:

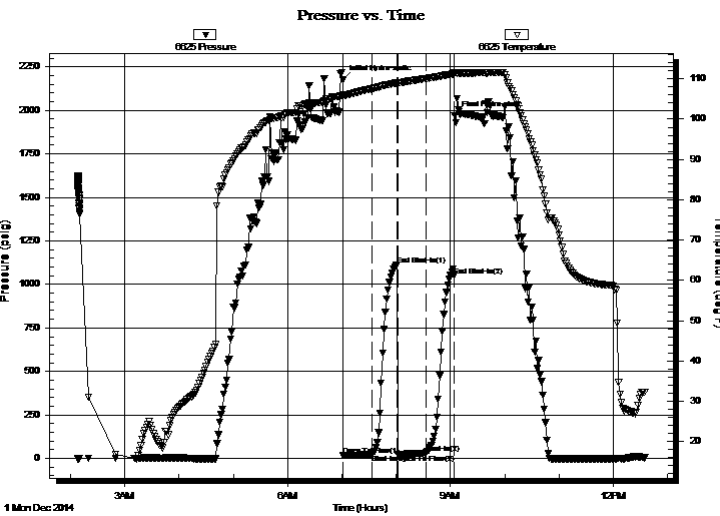
2014.12.01 @ 09:04:30

TEST COMMENT: 30:Weak surface blow died in 10 mins".

30: No Return.

30: No Blow .

30: No Return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2175.50	105.97	Initial Hydro-static
1	19.05	105.86	Open To Flow (1)
33	22.93	107.59	Shut-In(1)
60	1111.61	109.02	End Shut-In(1)
61	25.39	108.96	Open To Flow (2)
92	30.27	110.06	Shut-In(2)
123	1050.95	111.21	End Shut-In(2)
124	1970.21	111.46	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	mco 30m 70o	0.05

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Culbreath oil & gas company Inc

32-10s-30w Sheridan County

1532 S Peoria Ave
Tulsa Ok, 74120

Baalman 1-32

Job Ticket: 58636

DST#: 2

ATTN: Anthery Luna

Test Start: 2014.12.01 @ 02:08:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

29 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 59.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.00 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	mco 30m 70o	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

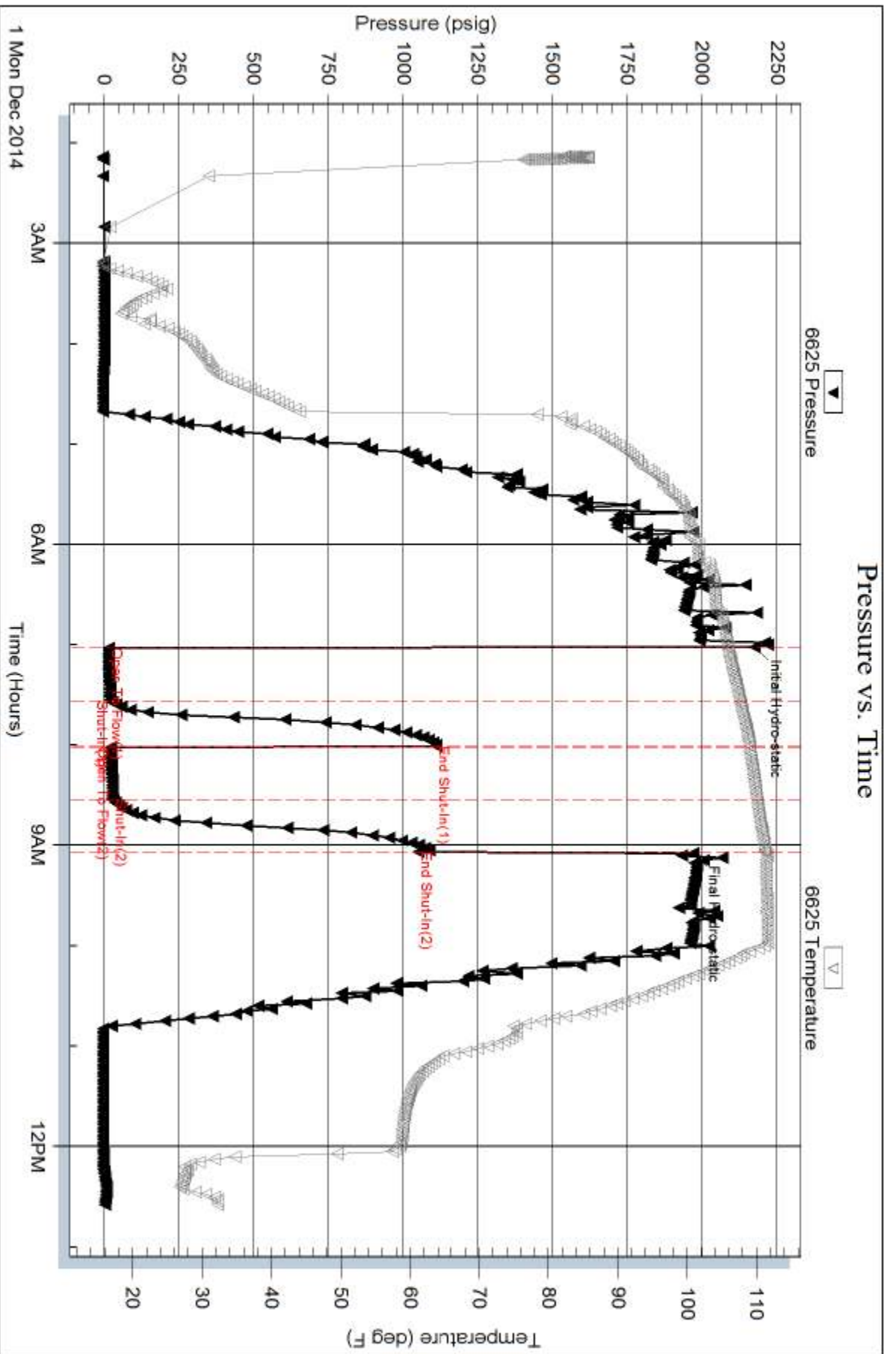
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Culbreath oil & gas company Inc

32-10s-30w Sheridan,KS

1532 S Peoria Ave
Tulsa OK 74120

Baalman #1-32

Job Ticket: 60221

DST#: 3

ATTN: Anthery Luna

Test Start: 2014.12.03 @ 17:37:00

GENERAL INFORMATION:

Formation: **Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:01:30

Time Test Ended: 03:34:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Kevin Mack

Unit No: 66

Interval: 4420.00 ft (KB) To 4448.00 ft (KB) (TVD)

Reference Elevations: 2981.00 ft (KB)

Total Depth: 4448.00 ft (KB) (TVD)

2971.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8874 Inside

Press@RunDepth: 65.43 psig @ 4421.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.12.03

End Date:

2014.12.04

Last Calib.: 2014.12.04

Start Time: 17:38:00

End Time:

03:34:30

Time On Btm: 2014.12.03 @ 22:00:30

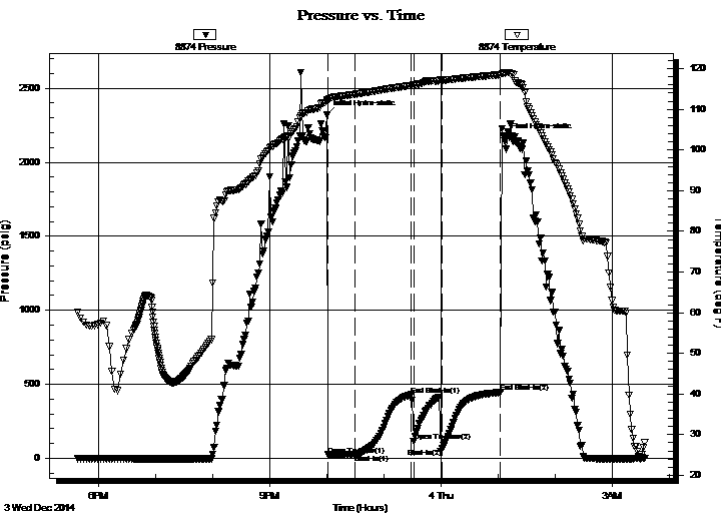
Time Off Btm: 2014.12.04 @ 01:06:30

TEST COMMENT: 30 - IF- 1/4" Blow built to 1"

60 - IS- No Return

30 - FF- No Blow

60 - FS- No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2319.11	112.48	Initial Hydro-static
1	22.99	111.91	Open To Flow (1)
30	27.11	113.72	Shut-In(1)
88	428.97	115.85	End Shut-In(1)
91	116.20	116.11	Open To Flow (2)
121	65.43	117.20	Shut-In(2)
183	445.89	118.53	End Shut-In(2)
186	2167.48	118.93	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	OSM 100M (oil spots)	0.05

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Culbreath oil & gas company Inc

32-10s-30w Sheridan,KS

1532 S Peoria Ave
Tulsa OK 74120

Baalman #1-32

Job Ticket: 60221

DST#: 3

ATTN: Anthery Luna

Test Start: 2014.12.03 @ 17:37:00

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: 73.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
10.00	OSM 100M (oil spots)	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8874

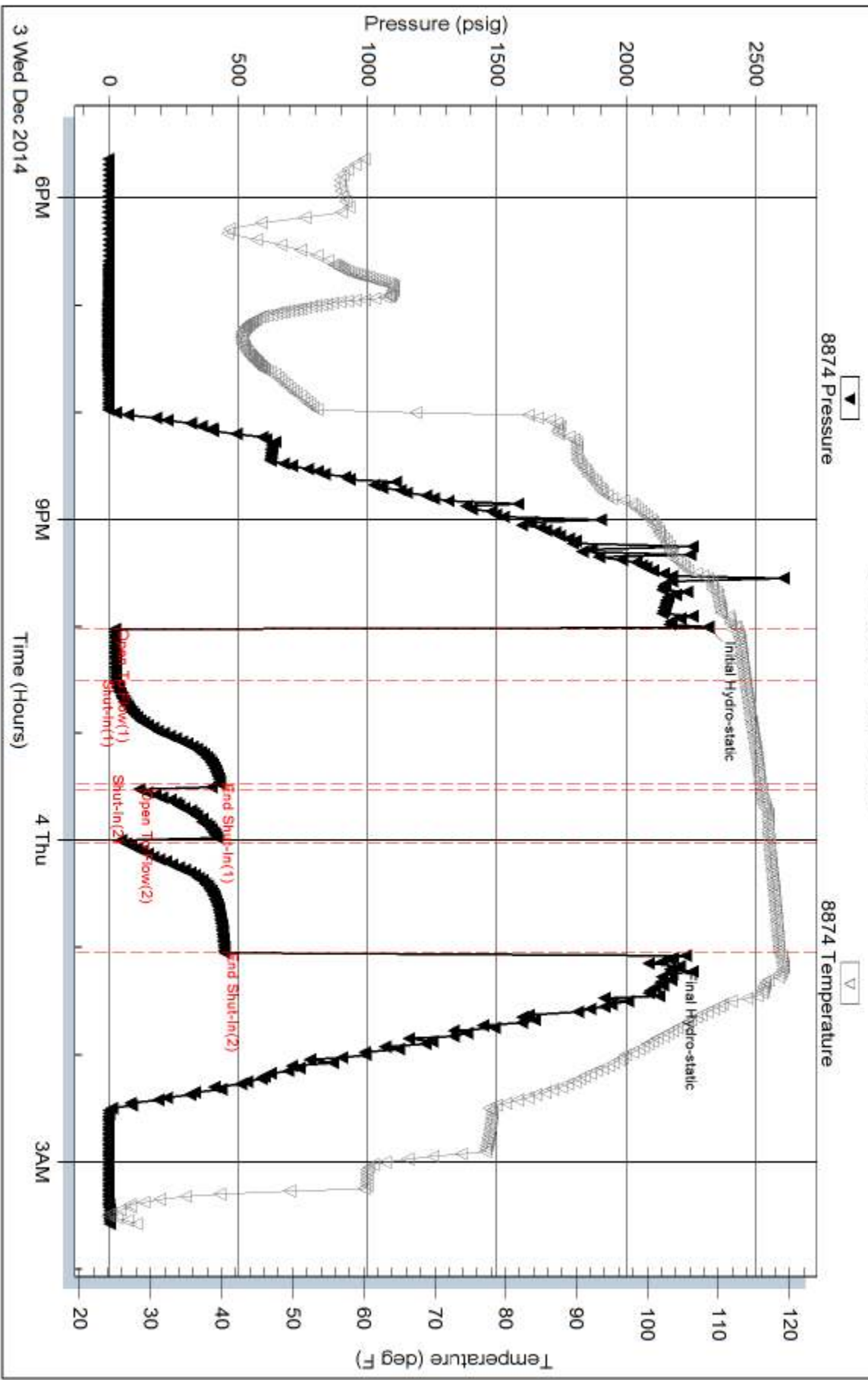
Inside

Culbreath oil & gas company inc

Baalinan #1-32

DST Test Number: 3

Pressure vs. Time



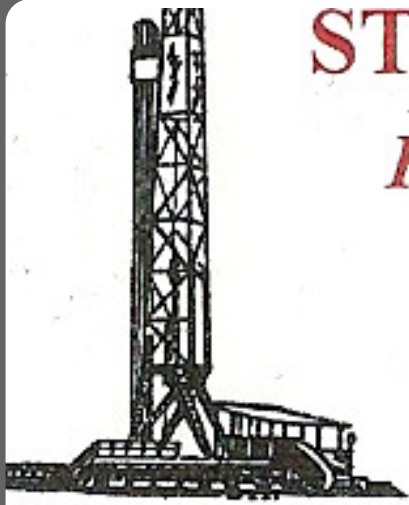
Trilobite Testing, Inc

Ref. No: 60221

Printed: 2014, 12, 04 @ 08:22:47

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: Baalman #1-32

API: 15-179-21382-00-00

Location: Sheridan County

License Number: 34344

Spud Date: 11/23/2014

Region: Kansas

Drilling Completed: 12/5/2014

Surface Coordinates: 2310' FSL & 1050' FWL (Approx. E/2 NE NW SW)

Section 32-T10S-R30W

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

Ground Elevation (ft): 2969'

K.B. Elevation (ft): 2982'

Logged Interval (ft): 3600' To: TD

Total Depth (ft): LTD -4684'

Formation: Topeka through Miss

Type of Drilling Fluid: Chemical (Andy's Mud)

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

OPERATOR

Company: Culbreath Oil & Gas, LLC

Address: 1532 S. Peoria Ave

Tulsa, OK 74120-6202

GEOLOGIST

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

Company: Consulting Petroleum Geologist

Address: 3365 CR 390

Otis, KS 67565

LogTops (Datum)

Open-hole logging was performed by Halliburton. The following are formation tops w/associated datums:

Anhydrite Top - 2512(+470)

Anhydrite Base - 2539 (+443)

Topeka - 3757 (-775)

Heebner - 3981 (-999)

Toronto - 3997 (-1015)

Lansing - 4017 (-1035)

Muncie Creek - 4149 (-1167)

Stark - 4235 (-1253)

Hushpuckney 4270 (-1288)

Base KC - 4292 (-1310)

Marmaton - 4330 (-1348)

Pawnee - 4419 (-1437)

Myrick Station - 4457 (-1475)

Fort Scott - 4493 (-1511)

Cherokee - 4521 (-1539)

Miss - 4616 (-1634)

DSTs

Drillstem testing was performed by Trilobite Testing (Scott City + Oberlin shop):

DST #1 4065-4096 (LKC "D")

30:60:30:60

IF: Built to 5in, no return

FF: no blow, no return (head manifold was unscrewed)

Recovery: 1' CO, 15' MOCW (2%O, 80%W, 18%M), 252' MCW (80%W, 20%M)

IHP: 2107 FHP: 1954

IFP: 20-113 ISIP: 1012

FFP: 110-147 FSIP: 946

BHT - 121 F

Chlorides - 50,000 ppm

DST #2 4090-4114 (LKC "EF")

30:30:30:30

IF: surface blow, no return

FF: no blow, no return

Recovery: 10' MCO (70%O, 30%M)

IHP: 2175 FHP: 1970

IFP: 19-25 ISIP: 1112

FFP: 23-30 FSIP: 1051

BHT - 111 F

Oil Gravity - 29 API

DST #3 4420-4448 (Pawnee)

30:60:30:60

IF: Built to 1/4in, no return

FF: no blow, no return

Recovery: 10' Mud w/oil spots

IHP: 2319 FHP: 2167

IFP: 22-116 ISIP: 428

FFP: 27-65 FSIP: 445

BHT - 119 F

COMMENTS

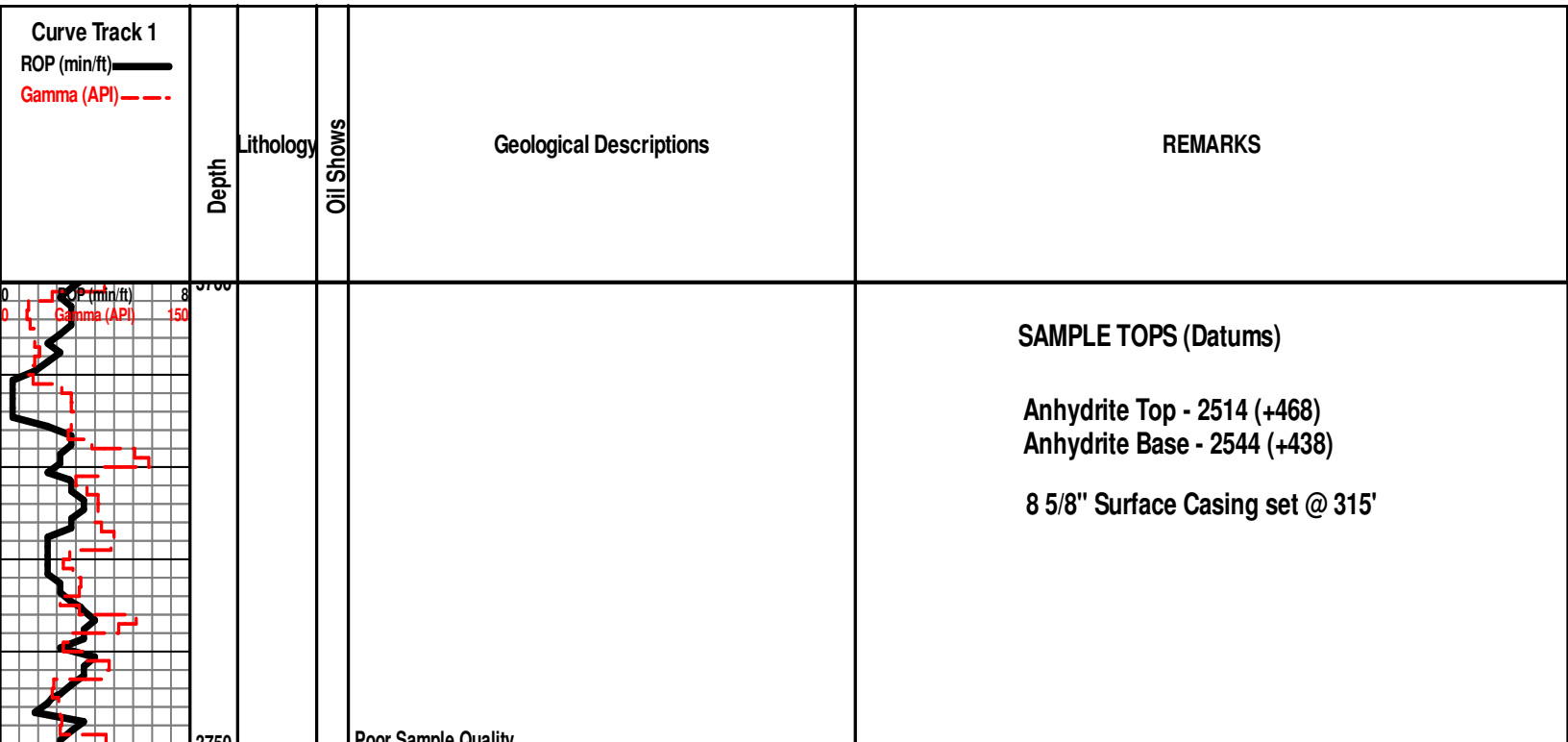
Based on the results of DSTs and log & sample analysis, this well was determined to be non-commercial and should be plugged & abandoned.

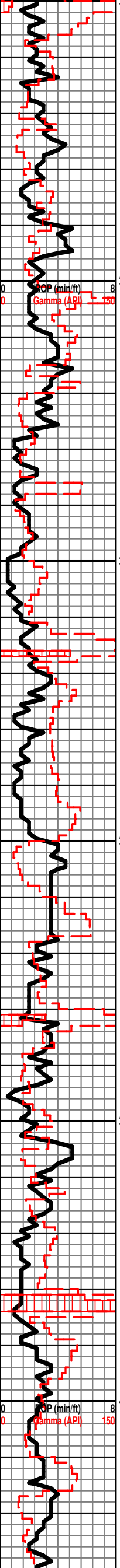
ROCK TYPES

 Anhy  Bent  Brec  Cht  Clyst	 Coal  Congl  Dol  Gyp  Igne	 Lmst  Meta  Mrlst  Salt  Shale	 Shcol  Shgy  Slstst  Ss  Till
---	---	--	---

OTHER SYMBOLS

OIL SHOW  Even  Spotted  Ques	 Dead  Gas	INTERVAL  Core  Dst	EVENT  Conn  Rft  Sidewall
--	---	--	---





For Sample Quality

SH: gry-grn-brn (wash red)

LS: wht-tan-gry, fxln, sl fos, sl chalky, NS

LS: same as above

LS: wht-crm-gry, vfxln, dense, sl fos, NS

LS: wht-crm-gry, vfxln, sl cherty, sl fos, NS

SH: gry-grn-brn

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

SH: gry-grn-brn

LS: wht-crm-gry, vfxln, sl fos, sl chalky, NS

LS: wht-crm-gry, vfxln, sl fos, chalky, NS

LS: wht-tan-gry, fxln, sl fos, sl cherty, NS

SH: blk, carb

LS: wht-crm-tan, fxln, sl chalky, NS

LS: wht-tan-gry, fxln, sl fos, sl chalky, NS

SH: gry-grn-brn (wash red)

LS: tan-crm-gry, fxln, sl fos, NS

SH: gry-grn-brn

LS: wht-tan-gry, vfxln, sl cherty, NS

SH: blk

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

LS: wht-tan-gry, fxln, sl cherty, sl chalky, NS

no sample

LS: wht-crm-gry, vfxln, sl fos, NS

SH: blk, carb

SH: gry-grn-brn-blk

LS: crm-tan-gry, vfxln, sl cherty, sl ool, NS

SH: gry-grn-brn

LS: wht-crm-gry, vfxln, dense, sl ool, sl fos, NS

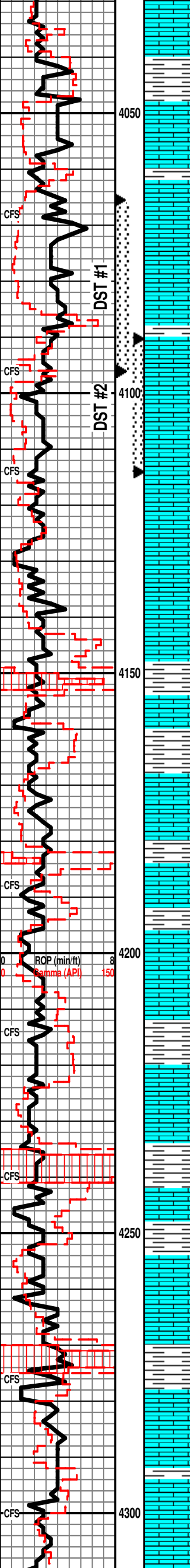
Topeka 3764 (-782)

Strap Pipe - 2.35 short
Survey @ 3952' - 3/4 deg

Heebner 3988 (-1006)

Toronto 4003 (-1021)

Lansing 4023 (-1041)



LS: wht-crm-gry, vfxln, sl ool, sl fos, NS

SH: gry-grn-brn

4050

LS: wht-crm-gry, vfxln, sl cherty, sl ool, NS

SH: gry-grn-brn

LS: wht-crm-tan, vfxln, dense, sl cherty, sl ool, NS

LS: wht-crm-gry, vfxln, tight, pr-fr intr-xln por, few vug, ssfo, wk odor

LS: same as above

SH: gry-grn-brn

LS: wht-crm-tan, vfxln, oolitic, pr-fr por, sl vug, fsfo, sl odor

LS: wht-crm-tan, vfxln, oolitic, pr por, tight, vss fb, wk odor

4100

LS: wht-crm-gry, vfxln, dense, sl ool, NS

LS: wht-crm-gry, vfxln, dense, sl ool, sl fos, NS

LS: same as above

4150

SH: blk, carb

LS: wht-crm-gry, vfxln, sl ool, sl fos, NS

SH: gry-grn-brn-blk

LS: wht-crm-tan, fxln, sl fos, NS

LS: same as above

SH: gry-grn-brn

4200

LS: wht-crm-gry, fxln, sl cherty, sl ool, NS

LS: same as above

SH: gry-grn-brn

LS: wht-crm-tan, vfxln, sl fos, NS

SH: blk, carb

4250

LS: wht-crm-gry, vfxln, sl cherty, sl fos, NS

SH: gry-grn-brn-blk

LS: wht-crm-gry, vfxln, sl ool, sl fos, NS

SH: blk, carb

4300

LS: wht-crm-tan, vfxln, sl ool, sl fos, NS

LS: wht-tan-gry, vfxln, sl ool, sl chalky NS

LS: wht-tan-gry, vfxln, sl cherty, sl ool, sl fos, NS

DST #1 4065-4096 (LKC "D")
 30:60:30:60
 IF: Built to 5in, no return
 FF: no blow, no return (head manifold was unscrewed)
 Recovery: 1' CO, 15' MOCW (2%O, 80%W, 18%M), 252' MCW (80%W, 20%M)
 IHP: 2107 FHP: 1954
 IFP: 20-113 ISIP: 1012
 FFP: 110-147 FSIP: 946
 BHT - 121 F
 Chlorides - 50,000 ppm

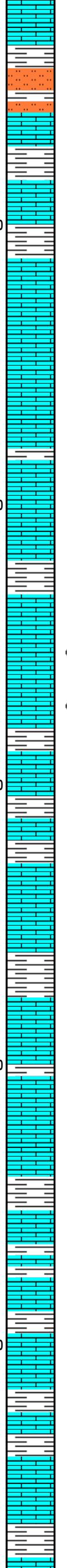
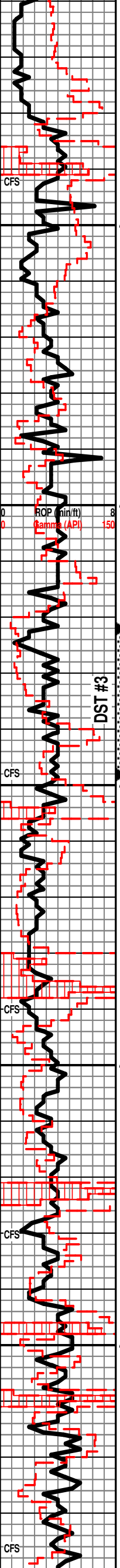
DST #2 4090-4114 (LKC "EF")
 30:30:30:30
 IF: surface blow died in 10min, no return
 FF: no blow, no return
 Recovery: 10' MCO (70%O, 30%M)
 IHP: 2175 FHP: 1970
 IFP: 19-25 ISIP: 1112
 FFP: 23-30 FSIP: 1051
 BHT - 111 F
 Oil Gravity - 29 API

Muncie Creek 4157 (-1175)

Stark 4243 (-1261)

Hushpuckney 4276 (-1294)

BKC 4300 (-1318)



SH: gry-grn-brn-blk

LS: red, sub rd, fr w-std, friable, NS

LS: wht-tan-gry, vfxln, cherty, sl ool, sl fos, NS

SH: gry-grn-brn-blk

LS: wht-crm-gry, vfxln, sl cherty, sl ool, NS

SH: gry-grn-brn-blk

LS: wht-tan-gry, vfxln, sl cherty, sl ool, NS

LS: same as above

LS: same as above w/abundant shale

LS: wht-tan-gry, fxl, sl cherty, sl ool, sl fos, NS

LS: same as above

SH: gry-grn-brn-blk

LS: wht-tan-gry, vfxln, dense, sl cherty, sl ool, NS

LS: wht-crm-tan, vfxln, pr-fr intr-ool por, vssfo, sl odor

LS: wht-crm-tan, vfxln, pr-fr intr-ool por, sl vug, ssfo, fr odor

SH: gry-grn-brn

LS: wht-crm-gry, vfxln, sl ool, sl fos, NS

SH: blk

SH: gry-grn-brn-blk

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

LS: same as above

SH: blk, carb

LS: wht-crm-gry, vfxln, sl cherty, sl ool, sl fos, NS

LS: same as above

LS: same as above

SH: blk, carb

LS: wht-tan-gry, vfxln, sl cherty, sl ool, NS

SH: gry-grn-blk

SH: same as above

LS: wht-tan-gry, vfxln, sl cherty, sl fos, NS

SH: gry-grn-brn-blk

LS: wht-tan-gry, vfxln, sl cherty, sl ool, sl fos, NS

SH: gry-grn-brn-blk

Marmaton 4333 (-1351)

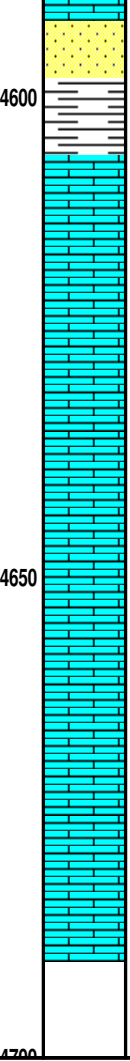
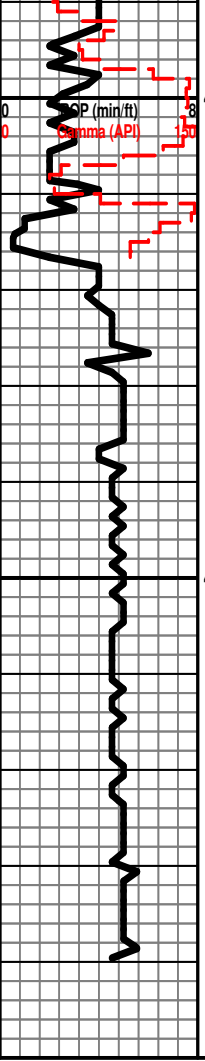
Pawnee 4426 (-1444)

DST #3 4420-4448 (Pawnee)
 30:60:30:60
 IF: Built to 1/4in, no return
 FF: no blow, no return
 Recovery: 10' Mud w/oil spots
 IHP: 2319 FHP: 2167
 IFP: 22-116 ISIP: 428
 FFP: 27-65 FSIP: 445
 BHT - 119 F

Myrick Station 4466 (-1489)

Fort Scott 4500 (-1521)

Cherokee 4527 (-1545)



Sst: clr-wht, vfg, pr-fr srt, sub-rd, friable, NS

SH: gry-grn-brn

LS: wht-tan-gry, vfxln, sl cherty, sl fos, NS

LS: wht-crm, vfxln, dense, sl ool, sl fos, NS

LS: wht-crm, vfxln, dense, pelletal, sl cherty, sl ool, sl fos, NS

LS: same as above

LS: wht-crm, vfxln, dense, pelletal, sl ool, NS

LS: wht-crm, vfxln, dense, pelletal, sl cherty, sl ool, sl fos, NS

LS: same as above

LS: same as above

LTD - 4684'

RTD - 4690'

Miss 4615 (-1633)

Survey @ TD - 1 1/4 deg

Global Cementing LLC

1958 E HWY 40
Russell, KS 67665

Invoice

Date	Invoice #
11/23/2014	1522

Bill To
CULBREATH OIL & GAS CO INC 1532 S PEORIA AVE TULSA,OK 74120

P.O. No.	Terms	Project
BAALMAN#1-32	Net 30	

Quantity	Description	Rate	Amount
225	COMMON	16.75	3,768.75
8	CALCIUM	59.00	472.00
4	GEL	23.50	94.00
237	HANDLING	2.10	497.70
	BULK MILEAGE	663.60	663.60
1	TRI-PLEX PUMP CHARGE FOR SURFACE	1,250.00	1,250.00
56	PUMP TRUCK MILEAGE	6.50	364.00
56	PICKUP	2.50	140.00
DEDUCT 15% FROM TOTAL IF PAID WITHIN 30 DAYS OF INVOICE			

SCANNED

Thank you for your business.

Phone #	Fax #	E-mail
785-324-2658	785-445-4174	globalcementing@gmail.com

Total \$7,250.05

GLOBAL CEMENTING, L.L.C.

1522

REMIT TO 18048 170RD
RUSSELL, KS 67665

SERVICE POINT: _____

DATE <u>11 23-14</u>	SEC. <u>32</u>	TWP. <u>10</u>	RANGE <u>30</u>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
LEASE <u>Boalman</u>	WELL #. <u>1-32</u>	LOCATION			COUNTY <u>Sheridan</u>	STATE <u>Ks</u>	
OLD OR NEW (CIRCLE ONE)							

CONTRACTOR Maverick Drilling

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D. 312

CASING SIZE 8 5/8 DEPTH

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG.

PERFS

DISPLACEMENT

OWNER _____

CEMENT AMOUNT ORDERED 225 SKS COM 3% CC 2% GEL

COMMON @ _____

POZMIX @ _____

GEL @ _____

CHLORIDE @ _____

ASC @ _____

HANDLING @ _____

MILEAGE _____

TOTAL _____

EQUIPMENT

PUMP TRUCK CEMENTER Cody

_____ HELPER Brad

BULK TRUCK DRIVER Bull

_____ DRIVER

REMARKS:

Refrigerated Storage, water is 10 ft East of casing

Hand supplied 225 SKS Cement (Cement Drilled)

12 1/4" Hole 540' casing 2 cased

CHARGE TO: Culbreath Oil + Gas Co

STREET _____

CITY _____ STATE _____ ZIP _____

Global Cementing, L.L.C.,
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 Todd E. Mersah

SIGNATURE Todd E. Mersah

SERVICE

DEPTH OF JOB _____

PUMP TRUCK CHARGE _____

EXTRA FOOTAGE @ _____

MILEAGE 2842 @ _____

MANIFOLD @ _____

TOTAL _____

PLUG & FLOAT EQUIPMENT

@ _____

@ _____

@ _____

@ _____

@ _____

TOTAL _____

SALES TAX (If Any) _____

TOTAL CHARGES _____

DISCOUNT _____ IF PAID IN 30 DAYS