



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1210480
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: _____

1210480

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

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> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Tengasco, Inc.
Well Name	Veverka D 4
Doc ID	1210480

Tops

Name	Top	Datum
Anhydrite	1430	+579
Topeka	2955	-946
Heebner	3160	-1151
Toronto	3182	-1173
Lansing	3198	-1189
BKC	3417	-1408
Arbuckle	3448	-1439
TD	3544	-1535



DRILL STEM TEST REPORT

Prepared For: **Tengasco Inc.**

PO Box 458
Hays KS 67601

ATTN: Mike Bair

Veverka D #4

21-2s-19w Rooks KS

Start Date: 2014.04.27 @ 22:38:00

End Date: 2014.04.28 @ 06:46:30

Job Ticket #: 56883 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.05.01 @ 13:14:27



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Tengasco Inc.

21-2s-19w Rooks KS

PO Box 458
Hays KS 67601

Veverka D #4

Job Ticket: 56883

DST#: 1

ATTN: Mike Bair

Test Start: 2014.04.27 @ 22:38:00

GENERAL INFORMATION:

Formation: **LKC "H - J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:10:00

Time Test Ended: 06:46:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Ryan Nichols

Unit No: 58

Interval: 3311.00 ft (KB) To 3385.00 ft (KB) (TVD)

Reference Elevations: 2007.00 ft (KB)

Total Depth: 3385.00 ft (KB) (TVD)

2002.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 6752

Inside

Press@RunDepth: 33.55 psig @ 3312.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.04.27

End Date:

2014.04.28

Last Calib.: 2014.04.28

Start Time: 22:38:01

End Time:

06:46:30

Time On Btm: 2014.04.28 @ 01:09:50

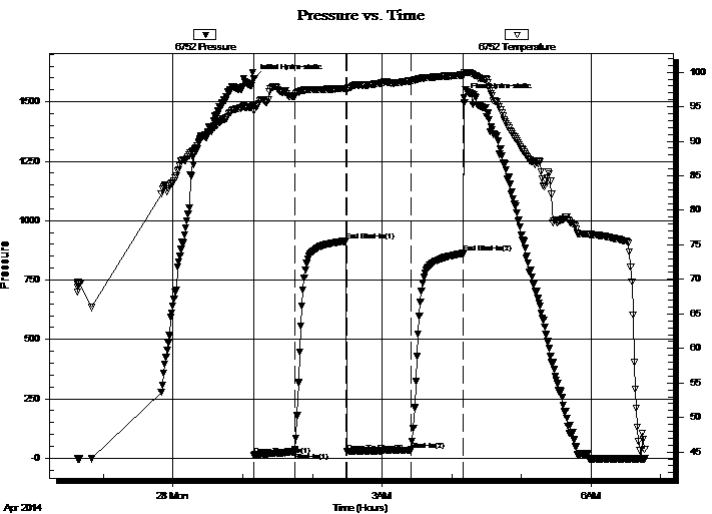
Time Off Btm: 2014.04.28 @ 04:10:50

TEST COMMENT: 35 IF - Surface blow built to 1 1/4"

45 ISI - No return

55 FF - Surface blow

45 FSI - No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1598.53	95.09	Initial Hydro-static
1	12.98	94.38	Open To Flow (1)
35	26.37	96.55	Shut-In(1)
80	913.99	97.64	End Shut-In(1)
80	27.02	97.34	Open To Flow (2)
136	33.55	98.72	Shut-In(2)
181	862.83	99.58	End Shut-In(2)
182	1517.80	99.87	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud 100%	0.02

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Tengasco Inc.

21-2s-19w Rooks KS

PO Box 458
Hays KS 67601

Veverka D #4

Job Ticket: 56883

DST#: 1

ATTN: Mike Bair

Test Start: 2014.04.27 @ 22:38:00

Tool Information

Drill Pipe:	Length: 3269.00 ft	Diameter: 3.80 inches	Volume: 45.86 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 38000.00 lb
			<u>Total Volume: 46.01 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 32000.00 lb
Depth to Top Packer:	3311.00 ft			Final 32000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	74.00 ft			
Tool Length:	101.00 ft			
Number of Packers:	2	Diameter: 6.78 inches		

Tool Comments:

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3285.00	
Shut In Tool	5.00			3290.00	
Hydraulic tool	5.00			3295.00	
Jars	5.00			3300.00	
Safety Joint	2.00			3302.00	
Packer	5.00			3307.00	27.00 Bottom Of Top Packer
Packer	4.00			3311.00	
Stubb	1.00			3312.00	
Recorder	0.00	6752	Inside	3312.00	
Recorder	0.00	8322	Outside	3312.00	
Perforations	5.00			3317.00	
Change Over Sub	1.00			3318.00	
Drill Pipe	63.00			3381.00	
Change Over Sub	1.00			3382.00	
Bullnose	3.00			3385.00	74.00 Bottom Packers & Anchor

Total Tool Length: 101.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Tengasco Inc.

21-2s-19w Rooks KS

PO Box 458
Hays KS 67601

Veverka D #4

Job Ticket: 56883

DST#: 1

ATTN: Mike Bair

Test Start: 2014.04.27 @ 22:38:00

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: 64.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud 100%	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

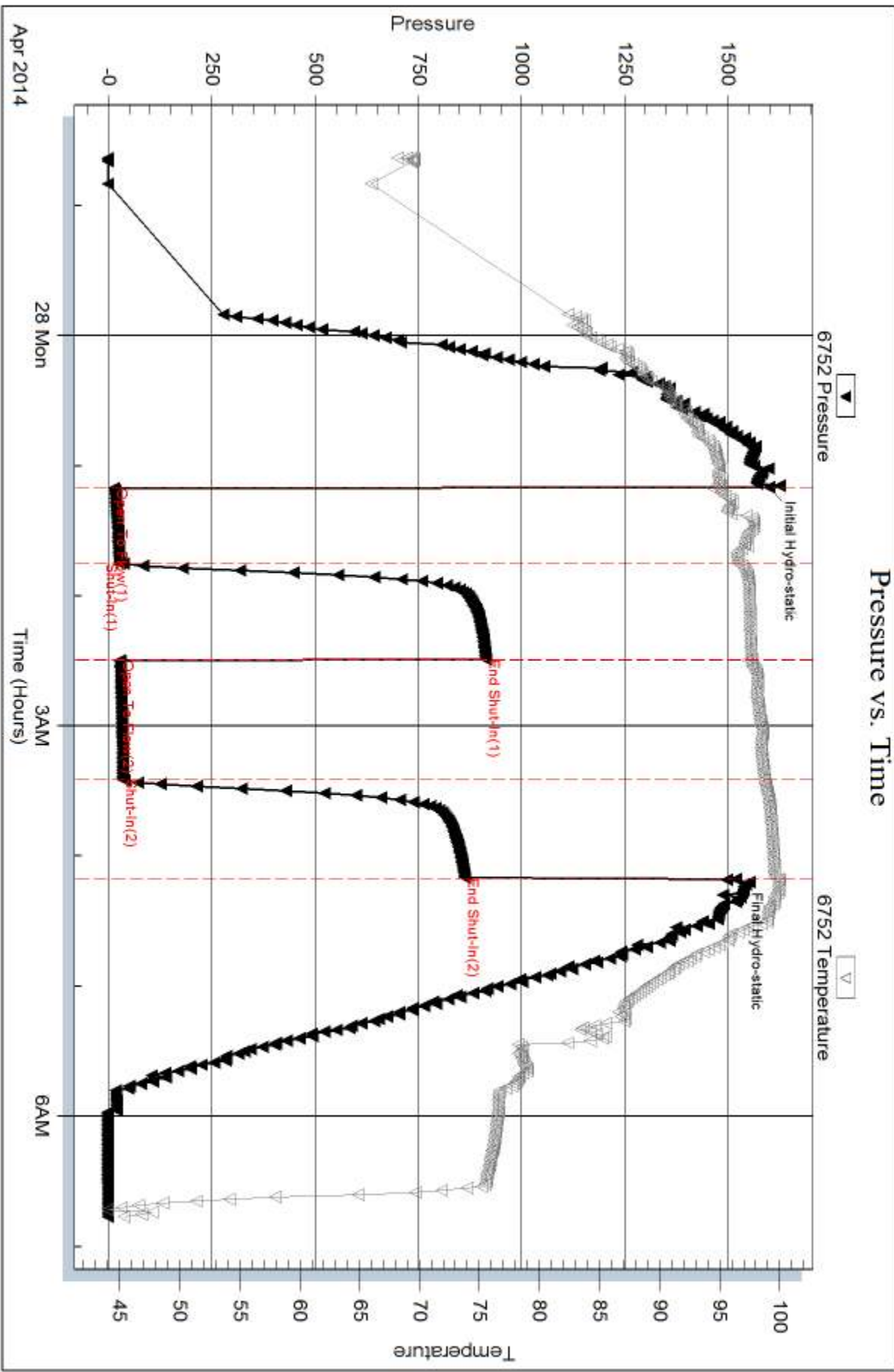
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

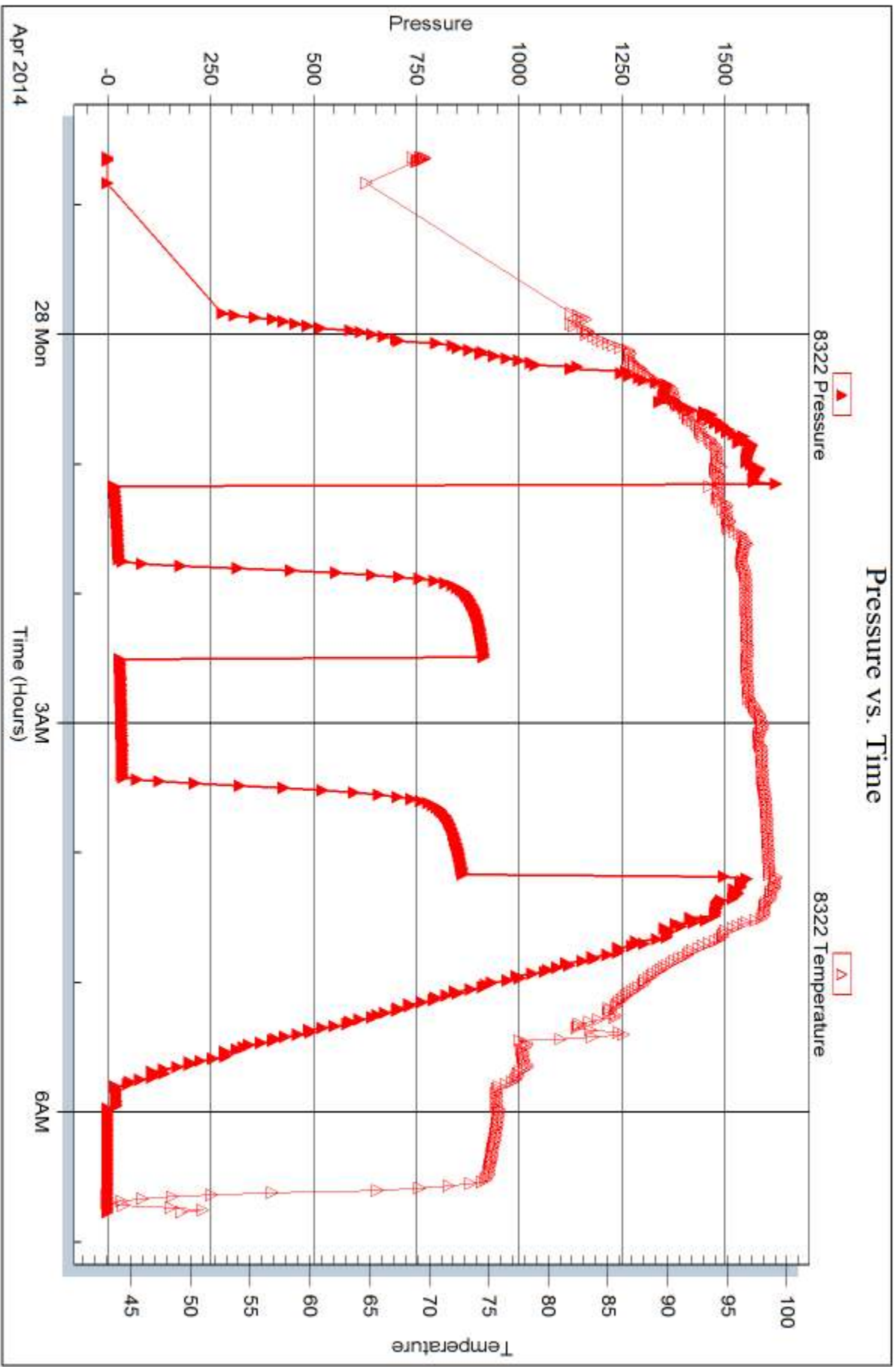


Serial #: 8322

Outside Tengasco Inc.

Veverka D#4

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 56883

Printed: 2014.05.01 @ 13:14:28



DRILL STEM TEST REPORT

Prepared For: **Tengasco Inc.**

PO Box 458
Hays KS 67601

ATTN: Mike Bair

Veverka D #4

21-2s-19w Rooks KS

Start Date: 2014.04.28 @ 17:11:00

End Date: 2014.04.29 @ 03:56:00

Job Ticket #: 56884 DST #: 2

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.05.01 @ 13:12:48

Tengasco Inc.
21-2s-19w Rooks KS
Veverka D #4
DST # 2
Arbuckle
2014.04.28



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Tengasco Inc.

21-2s-19w Rooks KS

PO Box 458
Hays KS 67601

Veverka D #4

Job Ticket: 56884

DST#: 2

ATTN: Mike Bair

Test Start: 2014.04.28 @ 17:11:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:16:10

Time Test Ended: 03:56:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Ryan Nichols

Unit No: 58

Interval: 3378.00 ft (KB) To 3456.00 ft (KB) (TVD)

Reference Elevations: 2007.00 ft (KB)

Total Depth: 3378.00 ft (KB) (TVD)

2002.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 6752 Inside

Press@RunDepth: 721.77 psig @ 3379.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.04.28

End Date:

2014.04.29

Last Calib.:

2014.04.29

Start Time: 17:11:01

End Time:

03:56:00

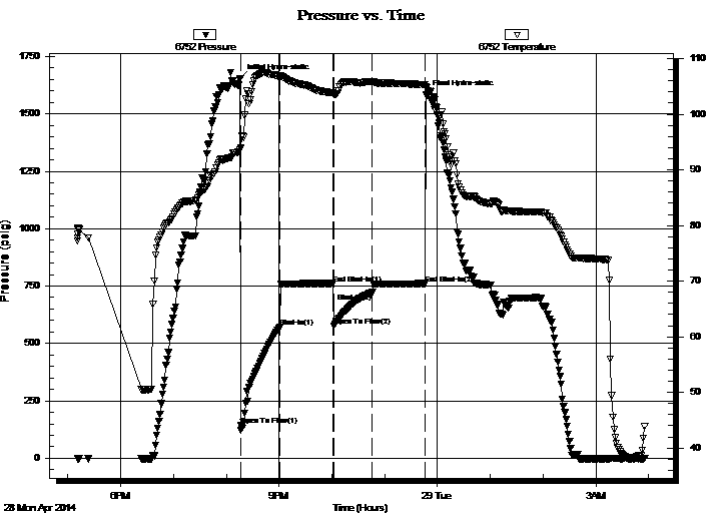
Time On Btm:

2014.04.28 @ 20:15:50

Time Off Btm:

2014.04.28 @ 23:46:39

TEST COMMENT: 45 IF - BoB @ 2 mins
60 ISI - Surface blow built to 3"
45 FF - BoB @ 3 mins
60 FSI - Surface blow built to 3 1/2"



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1652.88	93.62	Initial Hydro-static
1	143.79	93.80	Open To Flow (1)
46	571.17	106.82	Shut-In(1)
105	759.82	103.82	End Shut-In(1)
107	576.84	103.64	Open To Flow (2)
151	721.77	105.83	Shut-In(2)
211	760.60	105.29	End Shut-In(2)
211	1584.33	104.97	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1683.00	GO - 15%G - 85%o	23.33
63.00	MCO - 25%M - 75%o	0.88
0.00	200' GIP	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Tengasco Inc.

21-2s-19w Rooks KS

PO Box 458
Hays KS 67601

Veverka D #4

Job Ticket: 56884

DST#: 2

ATTN: Mike Bair

Test Start: 2014.04.28 @ 17:11:00

Tool Information

Drill Pipe:	Length: 3354.00 ft	Diameter: 3.80 inches	Volume: 47.05 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 40000.00 lb
			<u>Total Volume: 47.20 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial 32000.00 lb
Depth to Top Packer:	3378.00 ft			Final 37000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	78.00 ft			
Tool Length:	105.00 ft			
Number of Packers:	2	Diameter: 6.78 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3352.00	
Shut In Tool	5.00			3357.00	
Hydraulic tool	5.00			3362.00	
Jars	5.00			3367.00	
Safety Joint	2.00			3369.00	
Packer	5.00			3374.00	27.00 Bottom Of Top Packer
Packer	4.00			3378.00	
Stubb	1.00			3379.00	
Recorder	0.00	6752	Inside	3379.00	
Recorder	0.00	8322	Outside	3379.00	
Perforations	9.00			3388.00	
Change Over Sub	1.00			3389.00	
Drill Pipe	63.00			3452.00	
Change Over Sub	1.00			3453.00	
Bullnose	3.00			3456.00	78.00 Bottom Packers & Anchor

Total Tool Length: 105.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Tengasco Inc.

21-2s-19w Rooks KS

PO Box 458
Hays KS 67601

Veverka D #4

Job Ticket: 56884

DST#: 2

ATTN: Mike Bair

Test Start: 2014.04.28 @ 17:11:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

31 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 63.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
1683.00	GO - 15%G - 85%o	23.335
63.00	MCO - 25%M - 75%o	0.884
0.00	200' GIP	0.000

Total Length: 1746.00 ft Total Volume: 24.219 bbl

Num Fluid Samples: 0

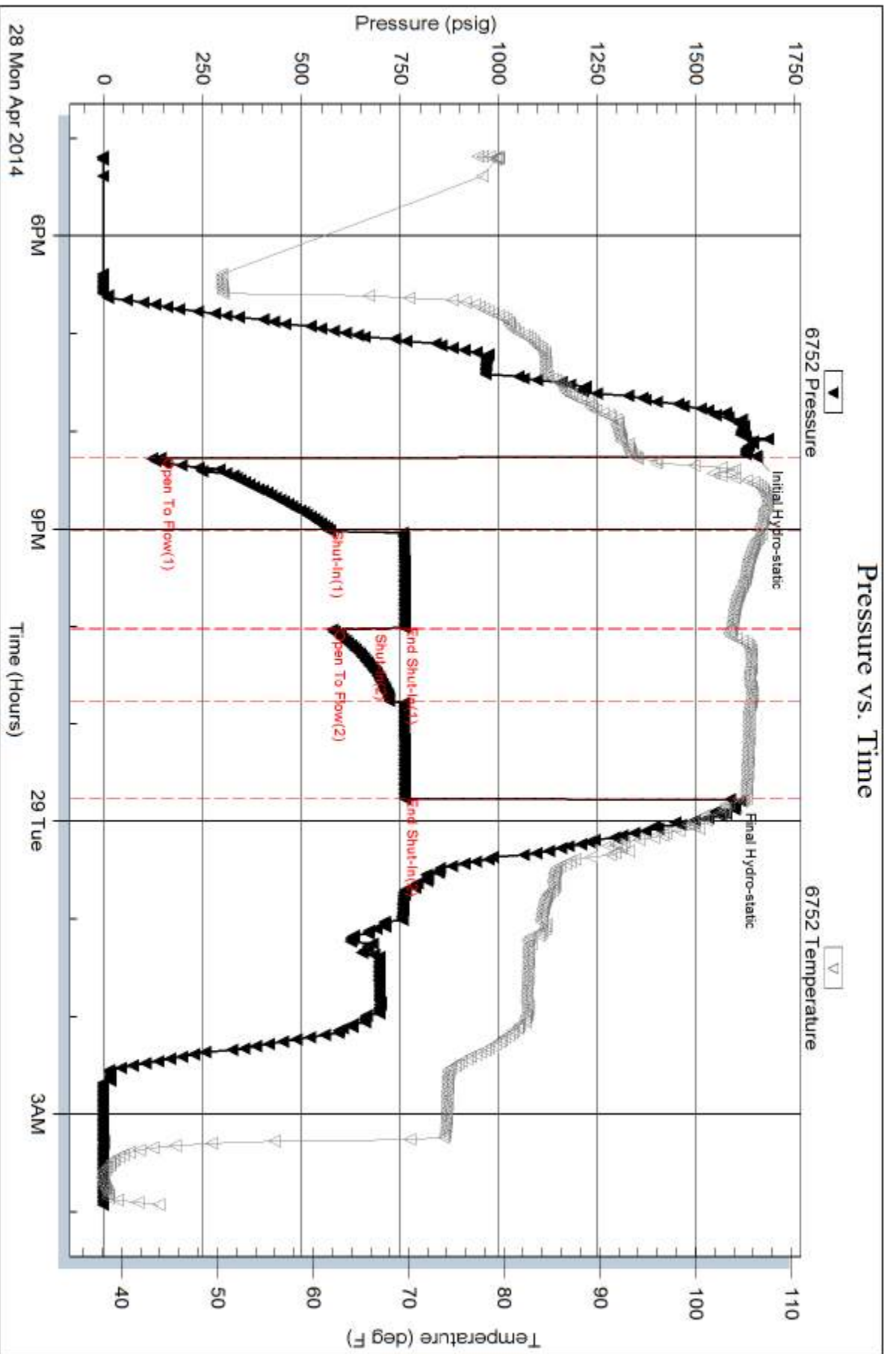
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: OIL API = 32 @ 70 DEG F = 31 COR 60 DEG F

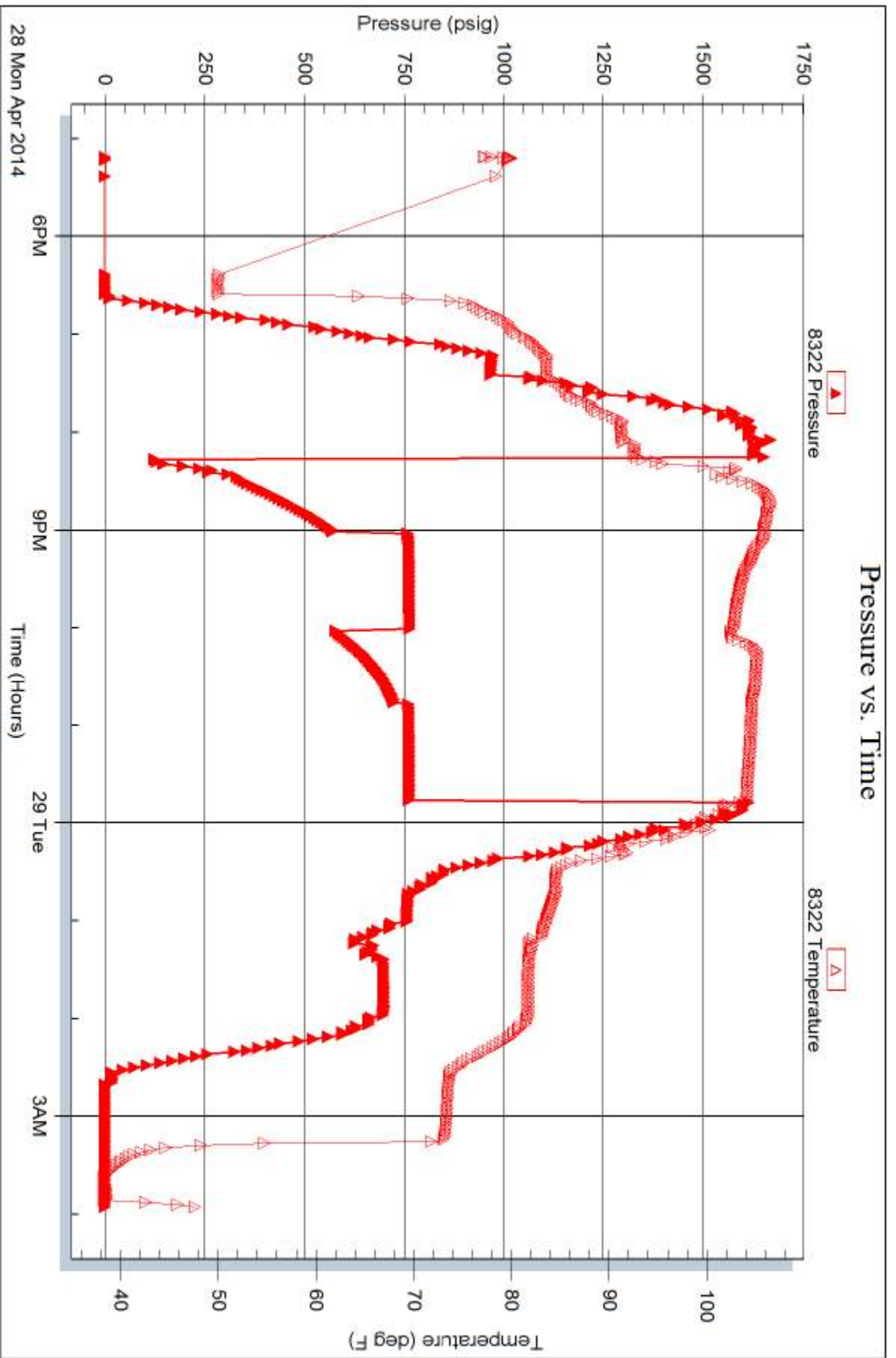


Serial #: 8322

Outside Tengasco Inc.

Veverka D #4

DST Test Number: 2





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 56883

Well Name & No. Veruka D Test No. 1 Date 4/27/14
 Company Tengasco Inc. Elevation 2007 KB 2002 GL
 Address 1327 Nasse RD P.O. Box 458 Hays KS 67601
 Co. Rep / Geo. Mike Bair Rig AM. Eagle #3
 Location: Sec. 21 Twp. 8S Rge. 19W Co. Rooks State KS

Interval Tested 3311-3385 Zone Tested LKC "H-J"
 Anchor Length 74' Drill Pipe Run 3269 Mud Wt. 8.75
 Top Packer Depth 3306 Drill Collars Run 30' Vis 64
 Bottom Packer Depth 3311 Wt. Pipe Run 0' WL 6.8
 Total Depth 3385 Chlorides 2800 ppm System LCM 1

Blow Description IF-Surface blow built to 1 1/4"
ISI-No return
FF-Surface blow
FSI-No return

Rec	Feet of	%gas	%oil	%water	%mud
5'	Mud			100%	

Rec Total 5' BHT 100° Gravity — API RW — @ — ° F Chlorides — ppm

(A) Initial Hydrostatic <u>1599</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>21:30</u>
(B) First Initial Flow <u>13</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>22:38</u>
(C) First Final Flow <u>26</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>01:11</u>
(D) Initial Shut-In <u>914</u>	<input checked="" type="checkbox"/> Circ Sub <u>NC</u>	T-Pulled <u>04:11</u>
(E) Second Initial Flow <u>27</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>06:46</u>
(F) Second Final Flow <u>34</u>	<input checked="" type="checkbox"/> Mileage <u>200 RT</u>	Comments
(G) Final Shut-In <u>863</u>	<input type="checkbox"/> Sampler <u>84rt 130.20</u>	
(H) Final Hydrostatic <u>1518</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer

Initial Open 35 Shale Packer
 Initial Shut-In 45 Extra Packer
 Final Flow 55 Extra Recorder
 Final Shut-In 45 Day Standby
 Accessibility

Sub Total 1605.20 Total 1605.20 MP/DST Disc't

Approved By _____ Our Representative [Signature]

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 56884

Well Name & No. Ververka D Test No. 2 Date 4/28/13
 Company Tengasco Inc Elevation 2007 KB 2002 GL
 Address 1327 Noose Rd P.O. Box 458 Hays KS 67601
 Co. Rep / Geo. Mike Bail Rig A.M. Eagle # 3
 Location: Sec. 21 Twp. 8S Rge. 19W Co. Rooks State KS

Interval Tested 3378 - 3456 Zone Tested Arbuckle
 Anchor Length 78' Drill Pipe Run 3354' Mud Wt. 9.0
 Top Packer Depth 3373 Drill Collars Run 30' Vis 63
 Bottom Packer Depth 3378 Wt. Pipe Run 0' WL 6.4
 Total Depth 3456 Chlorides 2500 ppm System LCM 2

Blow Description IF - BoB @ 2 mins
ISI - Surface blow built to 3"
FF - BoB @ 3 mins
FST Surface blow built to 3 1/2"

Rec	Feet of	%gas	%oil	%water	%mud
<u>63</u>	<u>MLO</u>	<u>75</u>		<u>25</u>	
<u>1683</u>	<u>GO</u>	<u>15</u>	<u>85</u>		

Rec Total 1746 BHT 105 Gravity 31 API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 1653 Test 1150 T-On Location 16:45
 (B) First Initial Flow 144 Jars 250 T-Started 17:11
 (C) First Final Flow 571 Safety Joint 75 T-Open 20:16
 (D) Initial Shut-In 760 Circ Sub used 50 T-Pulled 23:46
 (E) Second Initial Flow 577 Hourly Standby — T-Out 03:56
 (F) Second Final Flow 723 Mileage 200 RT Comments GIP - 200'
 (G) Final Shut-In 761 Sampler 130.20
 (H) Final Hydrostatic 1584 Straddle — Ruined Shale Packer —

Initial Open 45 Shale Packer — Ruined Packer —
 Initial Shut-In 60 Extra Packer — Extra Copies —
 Final Flow 45 Extra Recorder — Sub Total 0
 Final Shut-In 60 Day Standby — Total 1655.20
 Accessibility — MP/DST Disc't —
 Sub Total 1655.20

Approved By — Our Representative —

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

MUD LOG
WellSight Systems
Scale 1:240 (5"=100') Imperial
Measured Depth Log

Well Name: **VEVERKA D #4**
Location: **NE SE NW SE Sec. 21 ;Twnsp. 8 s.; Rge. 19 w.**
License Number: **34110** Region: **Rooks County, KS**
Spud Date: **4/23/2014** Drilling Completed: **4/29/2014**
Surface Coordinates: **1880' FSL 1340' FEL**

Bottom Hole
Coordinates:
Ground Elevation (ft): **2002** K.B. Elevation (ft): **2009**
Logged Interval (ft): **2700** To: **3521** Total Depth (ft): **RTD 3546**
Formation: **Arbuckle**
Type of Drilling Fluid: **Chemical**

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

OPERATOR

Company: **TENGASCO, INC.**
Address: **1327 Noose Rd.**
Hays, KS. 67601

GEOLOGIST

Name: **Mike Bair**
Company: **Basin Resources L.L.C.**
Address: **Longmont, CO.**

FORMATION TOPS

FORMATION	SAMPLE TOP	LOG TOP
Anhydrite	1429 (+580)	1430 (+579)
Topeka	2954 (-945)	2955 (-946)
Heebner	3164 (-1155)	3160 (-1151)
Toronto	3182 (-1173)	3182 (-1173)
Lansing	3198 (-1189)	3198 (-1189)
BKC	3418 (-1409)	3417 (-1408)
Arbuckle	3448 (-1439)	3448 (-1439)
TD	3546 (-1537)	3544 (-1535)

DSTs

DST#1 35-45-55-45 3311-3385
IFP: surface blow built to 1 1/4": ISIP: No blow back
FFP: surface blow: FSIP: No blow back
FP: (13-26)(27-34) SIP: 914 - 863
REC: 5' mud

DST#2 3378 - 3456 45-60-45-60
IFP: BOB in 2 minutes ISIP: surface blow built to 3"
FFP: BOB in 3 minutes FSIP: surface blow built to 3 1/2"
FP: (144-571)(577-723) SIP: 760 - 761
REC: 200' GIP; 63' MCO (75%o, 24%m); 1683' cl gsy oil (85%o, 15%) 31 gravity oil

Comments

Production casing was ran to further test the economic potential of the Arbuckle formation.

ROCK TYPES

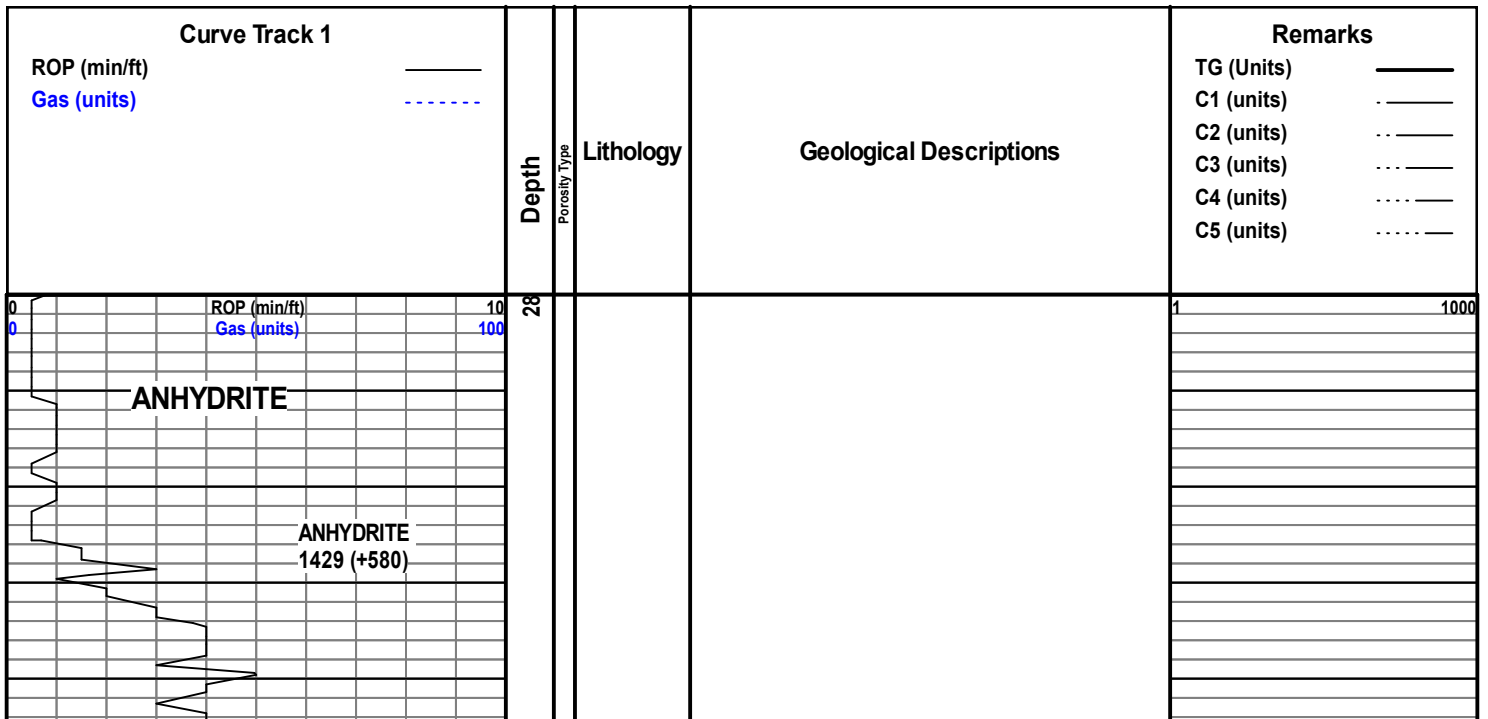
Anhy	Clyst	Gyp	Mrlst	Shgy
Bent	Coal	Igne	Salt	Sltst
Brec	Congl	Lmst	Shale	Ss
Cht	Dol	Meta	Shcol	Till

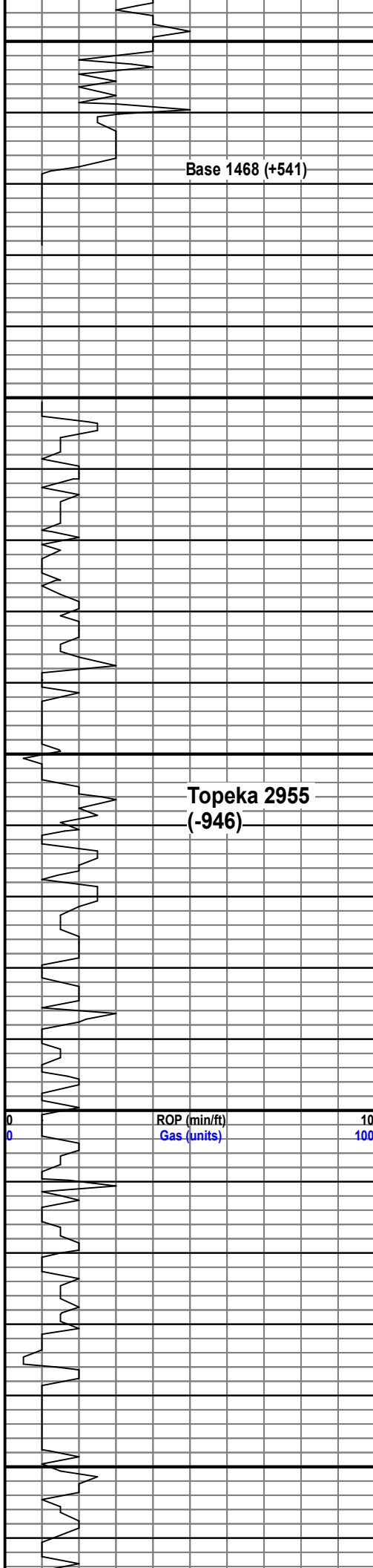
ACCESSORIES

MINERAL	Gyp	FOSSIL	Ostra	Sltstrg
Anhy	Hvymin	Algae	Pelec	Ssstrg
Arggrn	Kaol	Amph	Pellet	TEXTURE
Arg	Marl	Belm	Pisolite	Boundst
Bent	Minxl	Bioclst	Plant	Chalky
Bit	Nodule	Brach	Strom	Cryxln
Brecfrag	Phos	Bryozoa	STRINGER	Earthy
Calc	Pyr	Cephal	Anhy	Finexln
Carb	Salt	Coral	Arg	Grainst
Chtdk	Sandy	Crin	Bent	Lithogr
Chtlt	Silt	Echin	Coal	Microxln
Dol	Sil	Fish	Dol	Mudst
Feldspar	Sulphur	Foram	Gyp	Packst
Ferrpel	Tuff	Fossil	Ls	Wackest
Ferr		Gastro	Mrst	
Glau		Oolite		

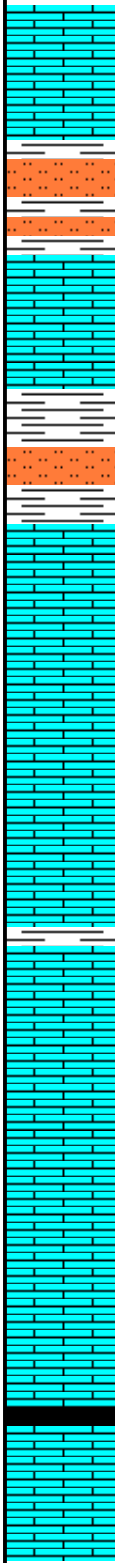
OTHER SYMBOLS

POROSITY	Vuggy	ROUNDING	Spotted	EVENT
Earthy		Rounded	Ques	Rft
Fenest	SORTING	Subrnd	Dead	Sidewall
Fracture	Well	Subang	INTERVAL	
Inter	Moderate	Angular	Core	
Moldic	Poor	OIL SHOW	Dst	
Organic		Even		
Pinpoint				





2850
2900
2950
3000
3050



Ls, tan-brn, wkstn, ns, few pc Chert, gry, ns, n/o

Ls, crm-tan, pkstn-grnstn, foss, spt'y ixl por, 1 pc
Ss, qtz, subR, sat'd stn, nsfo, n/o 3050

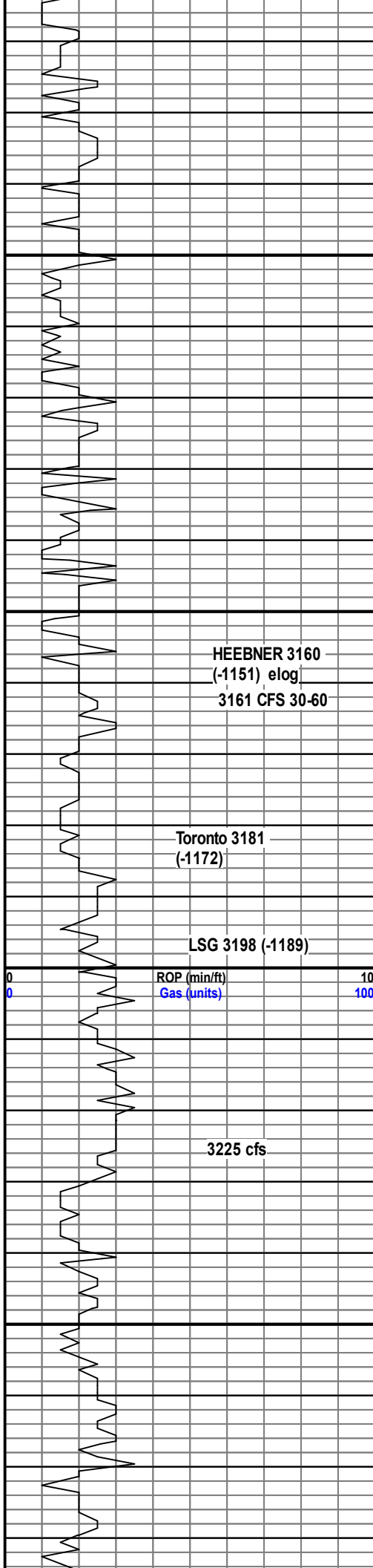
Sh, blk, few pc

Ls, gry, dse, nvp, ns, n/o

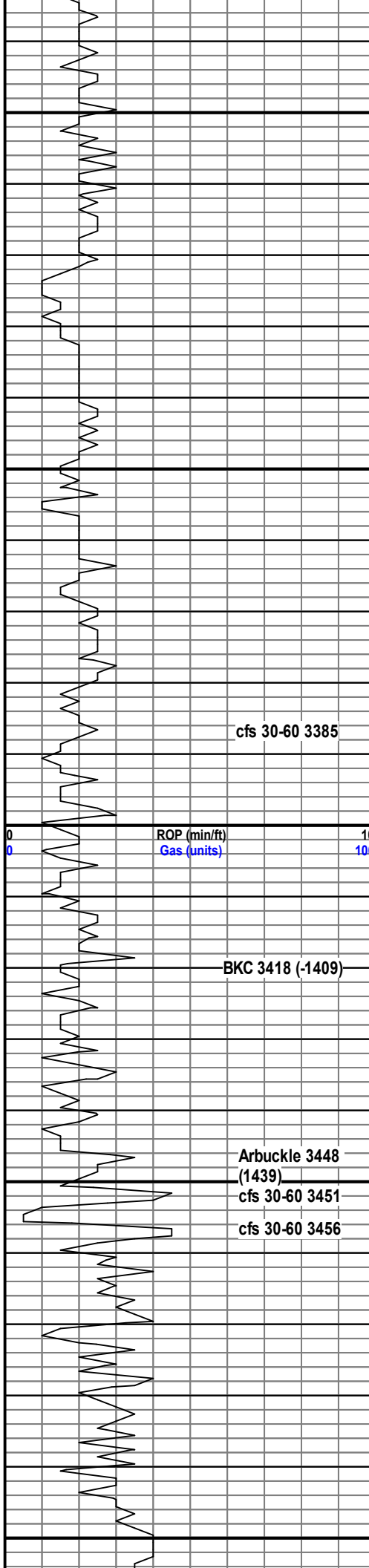
Ls, crm-tan, wkstn-pkstn, sl ixl por, ns, n/o

Sh, blk

1 1000



3100	Sh, v.c., blk	
	Ls, gry, gran, foss to Ls, crm, foss-ool, ns, n/o 3100	
	Ls, crm-tan, sl cky, fxl to sl gran, ns, n/o	
	Ls, gry, motl'd to tan pkstn, pr por, sl cky, ns, n/o	
	Ls, tan, fxl to sl gran, pr por to few Sh-Slt, grn, ns, n/o	
	Ls, wh-crm, sl gran to few ool; chert, wh-blk, sct'd foss, ns, n/o	
	Ls, tan-gry, mot'l pkstn, sl pp por, sl sfo wh bxn, low rep; Chert, brn, n/o 3150	
	Ls, gry, motl'd a/a to few Ls, wh, sl gran, sl ixl por, sl sfo, low rep, n/o	
	Ls, wh, sl gran, a/a w sct'd foss, r pc w xls on edge, sl sfo, n/o 3161 30 min	
	Ls, wh, fxl to few ool, pr vis por, ns, n/o, no blk sh 3161 60 min	
	SH, BLK, platy, sl carb, abdn't 3180 sample	
	Ls, crm-tan, fxl, few pc Slst, lt grn, ns, n/o	
	r pc Ls, wh, pr vis por, spt'd surf stn, nsfo, n/o 3200	
	r pc a/a to Ls, crm, fxl-wkstn, v spt'd pp por, lt sfo wh bxn 3210	
	Ls, wh, fxl-ool, v sl pp por to sl ixool por, spt'd surf stn; 1 rx, Ls, wh, ool, v sl ixool por, gd sfo wh bxn, gs bbls, poss v wk odor 3220	
	Ls, wh, fxl to ool, sl por, spt'd stn, v sl sfo wh bxn, n/o; Chert, wh 3225 cfs	
	Ls, wh, fxl, tr cky, sct'd Ss, clusters, n/s, no cut, no odor	
	Ls, wh-crm, fxl to tr ool w scat fluor, no odor 3240	
	Sh, gry; Ls, tan, r pc f gran w sl surf stn, n/o	
	Ls, wh-crm, fxl, ns, n/o	
	Ls, crm, fxl, sat'd stn, lt sfo wh bxn, n/o, low rep 3280	
	Sh, mrn; Ls, wh, fxl, spt'd vg por on end, oil stn on end, xl growth, oil stn and sl sfo on end; n/o low rep.	
	Sh, mrn, blk, brn; Ls, wh, fxl to sl gran, pr vis por, spt'd surf stn, v sl sfo wh bxn, sl cky, n/o 3300	
	Ls, wh, ool, pr sl ixool por to sl gran, sct'd surf	



3300

Ls, wh, ool, pr-sl ixool por to sl gran, spt'd surf stn, nsfo, n/o

Chert, wh-op-tan, some foss; Ls, 1 pc sparry cal w oil stn, n/o

Ls, wh, fxl, sl cky, ns, n/o

Sh, blk: Ls, wh, a/a to Ls, brn, ool, nvp, ns, n/o

Ls, crm, r pc foss w sl oil stn, sl cky, nsfo, n/o 33350

Ls, wh, fxl-sl gran, few ool, sl por, spt'd surf stn, r pc fr vg por w xl growth, lt odor 3360

a/a, v sl sfo, pr vis por, wk odor

Ls, crm, fxl, few even sat'd stn, immediate fluor cut, sl sfo, L-fr rep, fair odor 3380

Ls, wh, fxl-f grn, r pc oom por, spt'd surf stn, sl sfo wh bxn, fr fluor cut, L-fr rep, ft odor 3385

Ls, wh, fxl-v fgran, spt'd surf stn, v sl sfo wh bxn, sl cky, pr-sl ixl por, sl pp por in few rx, fair odor 3385 30 min

Sh, v.c, blk, mrn, gry

abdn't gry sh: Chert, tan; Ls, crm, fxl, few w weathered rind, ns, n/o 3400

pr smple: sh, a/a: Ls, wh-crm, sl cky, earthy to f gran, poss sl surf stn, nsfo, n/o

Ls, a/a, r pc Ls, wh, fxl, cal rexln, spt'd surf stn, nsfo, n/o

Sh, gry, olive: few pc Ls, wh, gran, sl ixgran por, spt'd stn, v sl sfo, n/o low rep

Sh, gry, red: Ls, wh-tan, fxl to sl gran, ns, sct'd chert, wh, n/o

Dolo, tan, suc, dse, fr-gd vg por, lt sfo to Dolo, tan, ool to oom, gd oom por, hvy sat'd stn, lt sfo, lt odor 3451 60 min.

Dolo, a/a sl decr in odor and show 3466

Dolo, tan, dse suc w fr-gd vg por, to Dol, tan, fxl to med xl, some sm rhom xls w oil sat, few drops oil floating in cup, fr sfo, fr odor 3456 30min

Dolo a/a to Dolo, tan, mxl, fr ixl por in few rx, sat'd stn, fr-gd sfo in some rx, gd odor 3456 60 min.

abdn't Sh; Dolo, crm-tan, suc-f gran, sat'd stn, sl ixl por to gd vg por, incr barren, pr smple 3470, wk odor

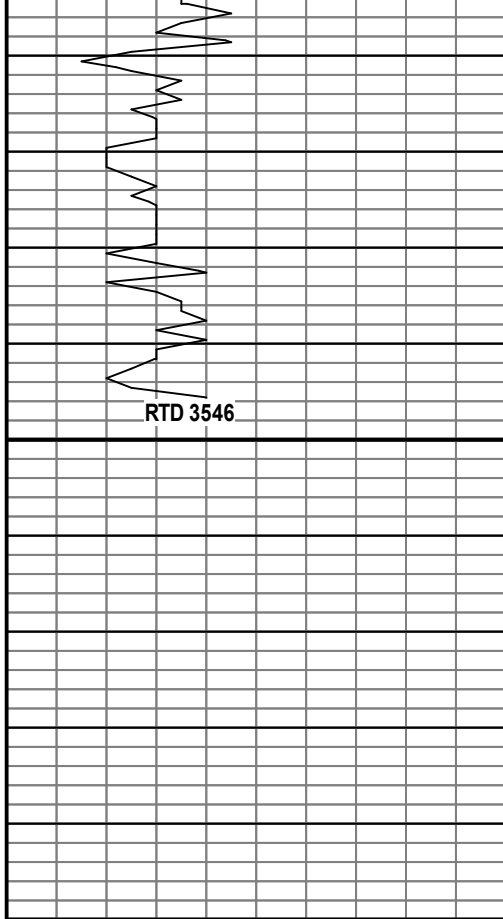
Dolo, wh-crm, suc-f gran, dse to Dolo, clr, f-mxl, sct'd stn, fr sfo, few pcs w xl growth on edge, sat'd oil stn to few pc dolo, wh, sd xls, ;Chert, op; Sh, v.c. wk odor.

Dolo, wh-crm, f gran, pr vis por, mat barren to

DST #1 3311-3385
5' m

DST#@ 3378-3456
200'GIP
63' MCO
1683' cl gsy oil

Tong dye dropped in hole



3550

00



Dolo, wh-crml, i gran, pr vis por, mst barren to
Dolo, wh-f mxl, sat'd stn, fr ixl por, fr sfo, wk odor
3490

Dolo, a/a, mst barren, some w sd xls, v wk odor

a/a, some w hvy blk tarry stn 3520

a/a, soft cky sh, sct'd chert, op, some ool, ns,
n/o

losing fluid -
mixning hulls

mixing hulls

QUALITY

OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 166

Date	4-23-14	Sec.	21	Twp.	08	Range	19	County	Rooks	State	KS	On Location		Finish	12:30 AM
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Location Zurich 7 1/2 N W into

Lease Veverka "D" Well No. #4 Owner

Contractor American Eagle #3 To Quality Oilwell Cementing, Inc.
Type Job Surface You are hereby requested to rent cementing equipment and furnish
Hole Size 12 1/4 T.D. 264' Charge To Tensasco Inc
Csg. 8 3/4 Depth 264' Street

Tbg. Size Depth City State

Tool Depth The above was done to satisfaction and supervision of owner agent or contractor.

Cement Left in Csg. 25' Shoe Joint 25' Cement Amount Ordered 170 com 3% CC 2% Gel

Meas Line Displace 15 1/4 bbl

EQUIPMENT

Pumptrk 5	No.	Cementer Helper David	Common 170
Bulktrk 13	No.	Driver Lonnie W	Poz. Mix
Bulktrk Pu	No.	Driver Brett	Gel. 3
			Calcium 7

JOB SERVICES & REMARKS

Remarks:	Hulls
Rat Hole	Salt
Mouse Hole	Flowseal
Centralizers	Kol-Seal
Baskets	Mud CLR 48
D/V or Port Collar	CFL-117 or CD110 CAF 38
	Sand
	Handling 280 180
	Mileage

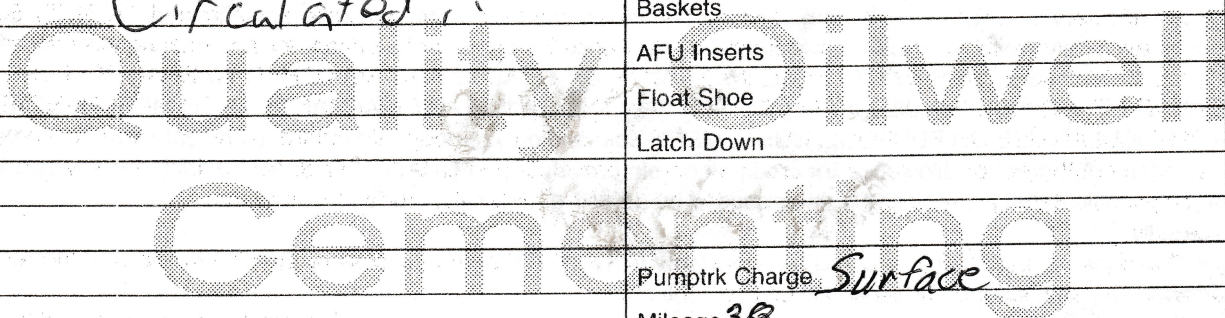
Cement
Circulated!!

FLOAT EQUIPMENT

Guide Shoe
Centralizer
Baskets
AFU Inserts
Float Shoe
Latch Down

Pumptrk Charge Surface
Mileage 38

X Signature Keith Koeber
Tax
Discount
Total Charge



QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 421

Date	4-30-14	Sec.	21	Twp.	8	Range	19	County	ROOKS	State	KS	On Location	6:00 AM	Finish	11:00 AM	
Lease	Veverka D							Well No.	4	Location Zurich 7 1/2 N Winto						
Contractor	AM Esle 3							Owner To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.								
Type Job	long string							Charge To TENGASCO Inc								
Hole Size	7 7/8							T.D.								
Csg. Size	5 1/2							Depth	3544							
Tbg. Size								Depth	3549.21							
Tool								Depth								
Cement Left in Csg.	42.50							Shoe Joint	42.50							
Meas Line	14 #							Displace	85.5 BBL 10% Salt 2% gel							
EQUIPMENT																
Pumptrk	20	No.	Cementer		Mutt		Common 180 proc									
			Helper				Poz. Mix									
Bulktrk	14	No.	Driver		Mick		Gel. 3									
			Driver				Calcium									
Bulktrk	pu	No.	Driver		Doug		Hulls									
			Driver				Salt 16									
JOB SERVICES & REMARKS																
Remarks:	Rat Hole 30 SWS															
Mouse Hole																
Centralizers	2 48 20 51															
Baskets	5 49 52 169															
DV or Port Collar	1463 #50 TOP															
Dropped Ball Concrete * through Run in Flush plug mat hole mixed 150 SKS down hole displace with water L ft 800 psi Lard 1500 psi																
FLOAT EQUIPMENT																
Guide Shoe																
Centralizer	4 Turbo 1 Reg															
Baskets	4															
AFU Inserts	1															
Float Shoe	1															
Latch Down	1															
port collar																
Pumptrk Charge	38 prol string															
Mileage	38															
Tax																
Discount																
Total Charge																
X Signature	Keith Karhu															

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 060

Date	5-7-14	Sec.	21	Twp.	8	Range	19	County	Rooks	State	Ks	On Location		Finish	11:30 AM
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Lease Ueberka D Location Zurich, Ks - 7 1/4 N, W into

Well No. 4 Owner To Quality Oilwell Cementing, Inc.

Contractor Fischer well service You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.

Type Job Port Collar Charge To Trngasco Inc

Hole Size 5 1/2" T.D. 3545' Street

Csg. 2 7/8" Depth 1463' City State

Tbg. Size Port Collar Depth 1460' The above was done to satisfaction and supervision of owner agent or contractor.

Tool Port Collar Depth 1460' Cement Amount Ordered 200 QMDC 44# Flt seal

Cement Left in Csg. Shoe Joint

Meas Line Displace 7 1/2 BLS

EQUIPMENT

Pumptrk	16	No.	Cement Helper	<u>Billy</u>	Common	<u>200</u>
Bulktrk	13	No.	Driver	<u>Ryan</u>	Poz. Mix	
Bulktrk	p.u.	No.	Driver	<u>Rick</u>	Gel.	
			Driver		Calcium	

JOB SERVICES & REMARKS

Remarks:	<u>pressure tool to 800 # held</u>	Hulls	
Rat Hole	<u>open tool establish a blow</u>	Salt	
Mouse Hole	<u>+ mix 200 st QMDC 44#</u>	Flowseal	<u>50 #</u>
Centralizers	<u>Displaced with 7 1/2 BLS</u>	Kol-Seal	
Baskets	<u>of water closed tool + pressure</u>	Mud CLR 48	
D/V or Port Collar	<u>to 800 # + held. Run 575</u>	CFL-117 or CD110 CAF 38	
tubing + wash clean		Sand	
		Handling	<u>200</u>
		Mileage	

Rigged down

Cement did Circulate

FLOAT EQUIPMENT

Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	
	<u>1 - opening tool</u>

Pumptrk Charge port collar
Mileage 38

X Signature Sary Wagner

Tax	
Discount	
Total Charge	