



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1209598
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: _____

1209598

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> _____
---	--

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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QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025

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

No. 4040

Cell 785-324-1041

Date	6-14-10	Sec.	30	Twp.	8	Range	22	County	Graham	State	Kansas	On Location		Finish	1:30 PM
Lease	AS Rice Trust	Well No.	1-30			Location			Hill City S side 1E 1S 1E 3/4 S 4th						
Contractor	Martin Drilling Rig 16							Owner							
Type Job	2 Stage Top							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.							
Hole Size	7 7/8			T.D.			3725			Charge To Phillips Exploration					
Csg.	5 1/2 14 1/2			Depth			3720			Street					
Tbg. Size				Depth						City					
Tool DV				Depth			1811			State					
Cement Left in Csg.				Shoe Joint			The above was done to satisfaction and supervision of owner agent or contractor.								
Meas Line				Displace			443 Bbl			Cement Amount Ordered 300 Q-MDC 1/2 Flo-Seal					

EQUIPMENT

Pumptrk	1	No.	Cementor	4	Common	300 Q-MDC
			Helper	4		
Bulktrk	10	No.	Driver	4	Poz. Mix	
			Driver	4		
Bulktrk		No.	Driver	4	Gel.	
			Driver	4		

JOB SERVICES & REMARKS

Remarks:		Hulls
Rat Hole	30 sx	Salt
Mouse Hole	15 sx	Flowseal 75 #
Centralizers		Kol-Seal
Baskets		Mud CLR 48
D/V or Port Collar		CFL-117 or CD110 CAF 38
		Sand
		Handling 300
		Mileage 38

FLOAT EQUIPMENT

Pre-lease plug & displace		Guide Shoe
Close Tool		Centralizer
		Baskets
Land plug @ 1400 psi		AFU Inserts
Cement did Circulate		Float Shoe
		Latch Down

Signature: <i>[Handwritten Signature]</i>	Pumptrk Charge	Top Stage Long String	Tax Discount Total Charge
	Mileage	38	

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. 4035

Date	6-9-10	Sec.	30	Twp.	8	Range	22	County	Graham	State	Kansas	On Location		Finish	9:00 PM
Lease	A.S. Rice Trust			Well No.	1-30			Location	Hill City 25 1E S 9 E						
Contractor	Martin Drilling Rig/6							Owner	Red Line 2 N Rd J 2 E 4 N						
Type Job	Surface							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.							
Hole Size	12 1/4			T.D.	218			Charge To	Phillips Exploration Co.						
Csg.	8 5/8 23lb			Depth	218			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.	10.15			Shoe Joint				Cement Amount Ordered 160 Com 36CC 2 1/2							
Meas Line				Displace	133b1										

EQUIPMENT

Pumptrk	9	No.	Cement	Steve	4	Common	160
			Helper				
Bulktrk	10	No.	Driver	Keefe	4	Poz. Mix	
			Driver				
Bulktrk		No.	Driver	Cisco	4	Gel.	3
			Driver			Calcium	5

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 168
	Mileage 38

Cement did Circulate

FLOAT EQUIPMENT

Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	

Surface

[Signature]

Pumptrk Charge	Surface
Mileage	38

(Russell)

X Signature *Azy [Signature]*

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. 4039

Date	Sec.	Twp.	Range	County	State	On Location	Finish
6-14-10	30	8	22	Graham	Kansas		10:15AM
Lease A.S. Rice Trust	Well No. F30		Location Hill City S side 1E 1S 1E 3/4 S 6 1/2 W				
Contractor Martin Drilling Rig 16				Owner			
Type Job 2 Stage (Bottom)				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.			
Hole Size 7 7/8		T.D. 3725		Charge To Phillips Exploration			
Csg. 5 1/2 1416		Depth 3720		Street			
Tbg. Size		Depth		City State			
Tool D.V. #45		Depth 1811		The above was done to satisfaction and supervision of owner agent or contractor.			
Cement Left in Csg. 42		Shoe Joint 42		Cement Amount Ordered 150 Q-Pro C 10% Salt			
Meas Line		Displace 893 Bbl					

EQUIPMENT

Pumptrk	No.	Cementor	Helper	Common
1		Steve		500 Gal Mud Clear
8		Brandon		150 Q pro-c
		Rocky		

JOB SERVICES & REMARKS

Remarks:	Hulls
Rat Hole	Salt 17
Mouse Hole	Flowseal
Centralizers 2, 4, 5, 6, 8, 10, 44, 160	Kol-Seal
Baskets 4, 5, 6	Mud CLR 48 500 gal
D/V or Port Collar #45 1810.95	CFL-117 or CD110 CAF 38
	Sand
	Handling 167
	Mileage

FLOAT EQUIPMENT

Land Plug @ 1200 psi	Guide Shoe
Float Held	Centralizer 8
	Baskets 2
	AFU Inserts
	Float Shoe 1
	Latch Down
	1 D.V. Tool w/ Latch Down Assy
	Pumptrk Charge Long String Bottom Stage
	Mileage 38

X Signature <i>[Signature]</i>	Tax
	Discount
	Total Charge



DRILL STEM TEST REPORT

Prepared For: **Phillips Exploration Co LC**

1601 Sagebrush
Wichita Ks 67230

ATTN: Jim Phillips

30-8-22-Graham-Ks

A J Rice Trust # 1-30

Start Date: 2010.06.12 @ 14:07:15

End Date: 2010.06.12 @ 20:14:45

Job Ticket #: 38976 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.06.12 @ 09:44:25

Phillips Exploration Co LC

A J Rice Trust # 1-30

30-8-22-Graham-Ks

DST # 1

70'

LKC

2010.06.12



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Phillips Exploration Co LC

A J Rice Trust # 1-30

1601 Sagebrush
Wichita Ks 67230

30-8-22-Graham-Ks

Job Ticket: 38976

DST#: 1

ATTN: Jim Phillips

Test Start: 2010.06.12 @ 14:07:15

GENERAL INFORMATION:

Formation: **70' LKC**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 15:49:45
 Time Test Ended: 20:14:45
 Interval: **3500.00 ft (KB) To 3530.00 ft (KB) (TVD)**
 Total Depth: 3530.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Dan Bangle
 Unit No: 38
 Reference Elevations: 2202.00 ft (KB)
 2197.00 ft (CF)
 KB to GR/CF: 5.00 ft

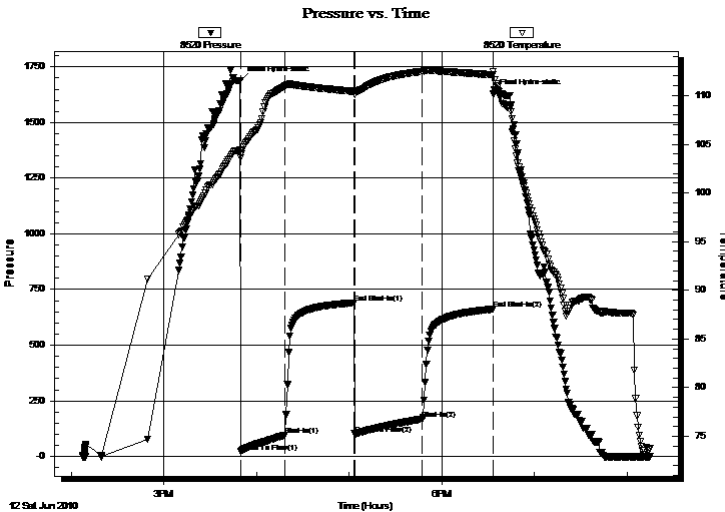
Serial #: 8520

Outside

Press@RunDepth: 168.43 psig @ 3501.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2010.06.12 End Date: 2010.06.12 Last Calib.: 2010.06.24
 Start Time: 14:07:16 End Time: 20:14:45 Time On Btm: 2010.06.12 @ 15:49:30
 Time Off Btm: 2010.06.12 @ 18:33:30

TEST COMMENT: IF-Strong B-B in 7 min
 IS-Weak building to 3/4"
 FF-Strong B-B in 18 min
 FS-Weak building to 3/4"

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1688.78	104.38	Initial Hydro-static
1	20.59	103.64	Open To Flow (1)
29	95.89	110.97	Shut-In(1)
74	690.55	110.42	End Shut-In(1)
74	101.57	110.16	Open To Flow (2)
118	168.43	112.48	Shut-In(2)
164	660.97	112.13	End Shut-In(2)
164	1628.19	112.49	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
110.00	Mdy Wtr	1.27
70.00	OCgsyM 30%o 10%g 60%m	0.98
485.00	CGsyO 10%g 90%o	6.80
0.00	185 GIP	0.00

Gas Rates

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

Phillips Exploration Co LC

1601 Sagebrush
Wichita Ks 67230

ATTN: Jim Phillips

A J Rice Trust # 1-30

30-8-22-Graham-Ks

Job Ticket: 38976

DST#: 1

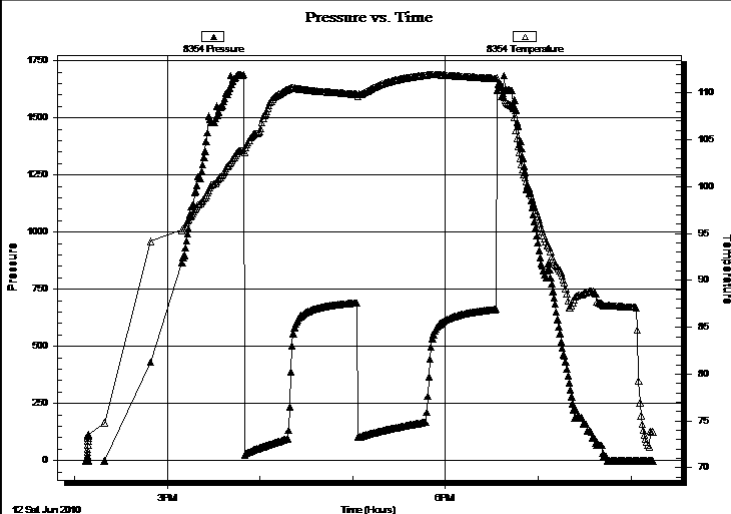
Test Start: 2010.06.12 @ 14:07:15

GENERAL INFORMATION:

Formation: **70' LKC**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 15:49:45
 Time Test Ended: 20:14:45
 Interval: **3500.00 ft (KB) To 3530.00 ft (KB) (TVD)**
 Total Depth: 3530.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches
 Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Dan Bangle
 Unit No: 38
 Reference Elevations: 2202.00 ft (KB)
 2197.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8354 Inside
 Press@RunDepth: psig @ 3501.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2010.06.12 End Date: 2010.06.12 Last Calib.: 2010.06.24
 Start Time: 14:07:11 End Time: 20:14:25 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF-Strong B-B in 7 min
 IS-Weak building to 3/4"
 FF-Strong B-B in 18 min
 FS-Weak building to 3/4"



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
110.00	Mdy Wtr	1.27
70.00	OCGsyM 30%o 10%g 60%m	0.98
485.00	CGsyO 10%g 90%o	6.80
0.00	185 GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Phillips Exploration Co LC

A J Rice Trust # 1-30

1601 Sagebrush
Wichita Ks 67230

30-8-22-Graham-Ks

Job Ticket: 38976

DST#: 1

ATTN: Jim Phillips

Test Start: 2010.06.12 @ 14:07:15

Tool Information

Drill Pipe:	Length: 3454.00 ft	Diameter: 3.80 inches	Volume: 48.45 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 48.60 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3500.00 ft			Final 51000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	30.00 ft			
Tool Length:	50.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3481.00	
Shut In Tool	5.00			3486.00	
Hydraulic tool	5.00			3491.00	
Packer	5.00			3496.00	20.00 Bottom Of Top Packer
Packer	4.00			3500.00	
Stubb	1.00			3501.00	
Recorder	0.00	8354	Inside	3501.00	
Recorder	0.00	8520	Outside	3501.00	
Perforations	26.00			3527.00	
Bullnose	3.00			3530.00	30.00 Bottom Packers & Anchor
Total Tool Length:	50.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Phillips Exploration Co LC

A J Rice Trust # 1-30

1601 Sagebrush
Wichita Ks 67230

30-8-22-Graham-Ks

Job Ticket: 38976

DST#: 1

ATTN: Jim Phillips

Test Start: 2010.06.12 @ 14:07:15

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

32 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

43000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.17 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1300.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
110.00	Mdy Wtr	1.270
70.00	OCGsyM 30%o 10%g 60%m	0.982
485.00	CGsyO 10%g 90%o	6.803
0.00	185 GIP	0.000

Total Length: 665.00 ft Total Volume: 9.055 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

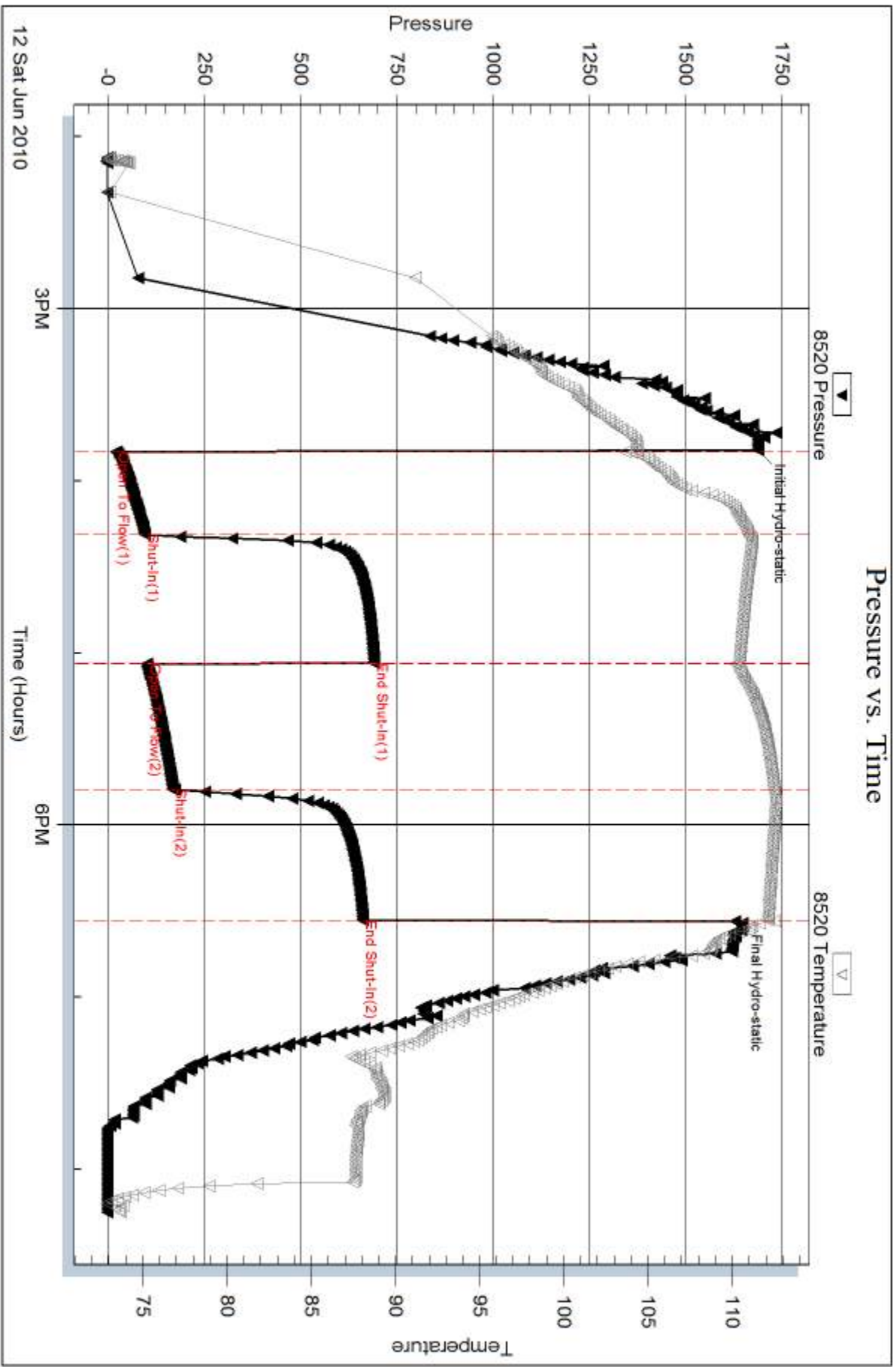
Recovery Comments: Rw .13 @ 78 =43000ppm

Serial #: 8520

Outside Phillips Exploration Co LC

30-8-22-Graham Ks

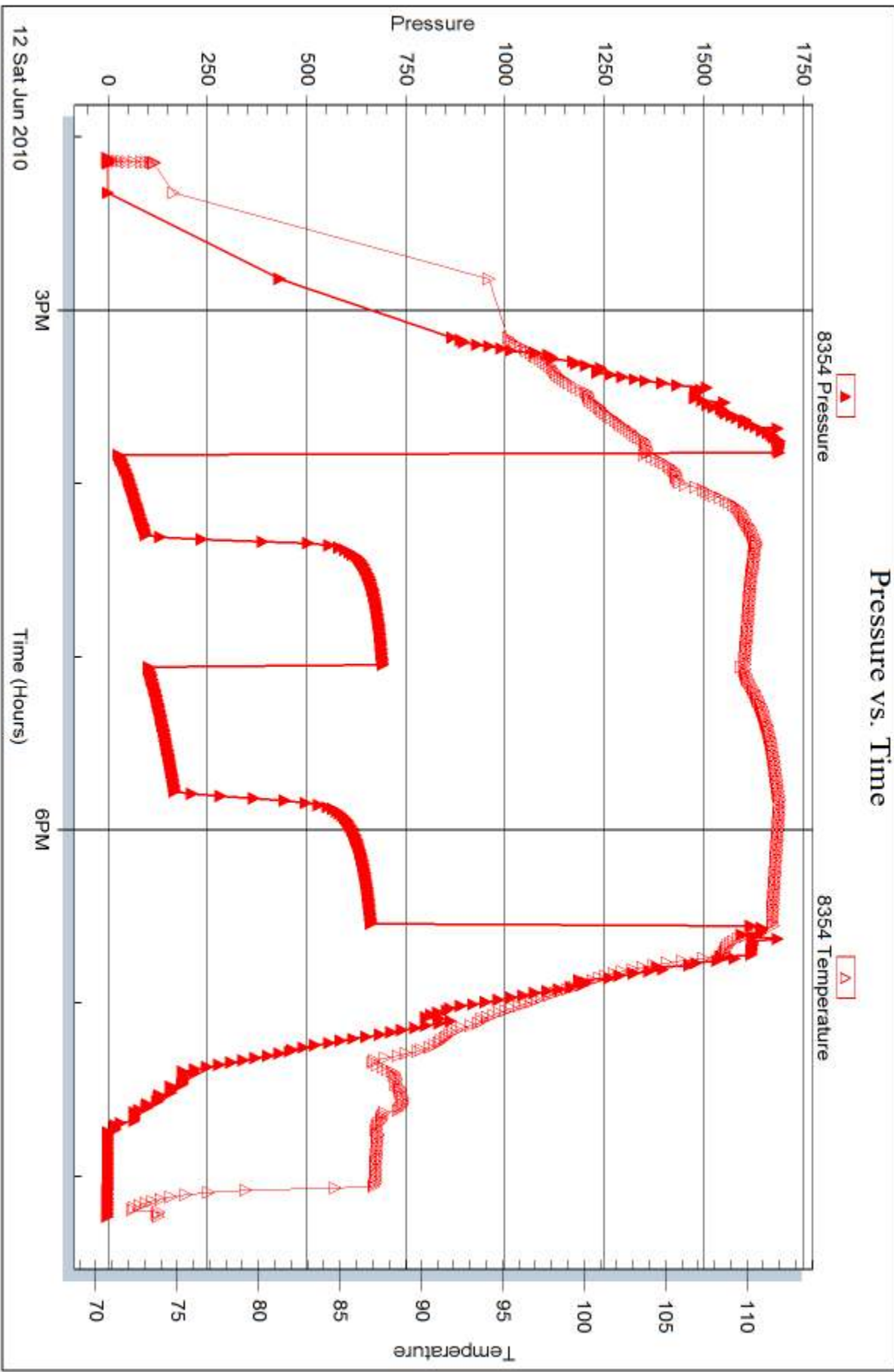
DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 39976

Printed: 2014.06.12 @ 09:44:26





DRILL STEM TEST REPORT

Prepared For: **Phillips Exploration Co LC**

1601 Sagebrush
Wichita Ks 67230

ATTN: Jim Phillips

30-8-22-Graham-Ks

A J Rice Trust # 1-30

Start Date: 2010.06.13 @ 07:50:49

End Date: 2010.06.13 @ 12:53:03

Job Ticket #: 38977 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.06.12 @ 08:48:38



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Phillips Exploration Co LC

A J Rice Trust # 1-30

1601 Sagebrush
Wichita Ks 67230

30-8-22-Graham-Ks

Job Ticket: 38977

DST#: 2

ATTN: Jim Phillips

Test Start: 2010.06.13 @ 07:50:49

GENERAL INFORMATION:

Formation: **H-I-J LK**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 09:39:18
 Time Test Ended: 12:53:03
 Interval: **3590.00 ft (KB) To 3630.00 ft (KB) (TVD)**
 Total Depth: 3630.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Dan Bangle
 Unit No: 38
 Reference Elevations: 2202.00 ft (KB)
 2197.00 ft (CF)
 KB to GR/CF: 5.00 ft

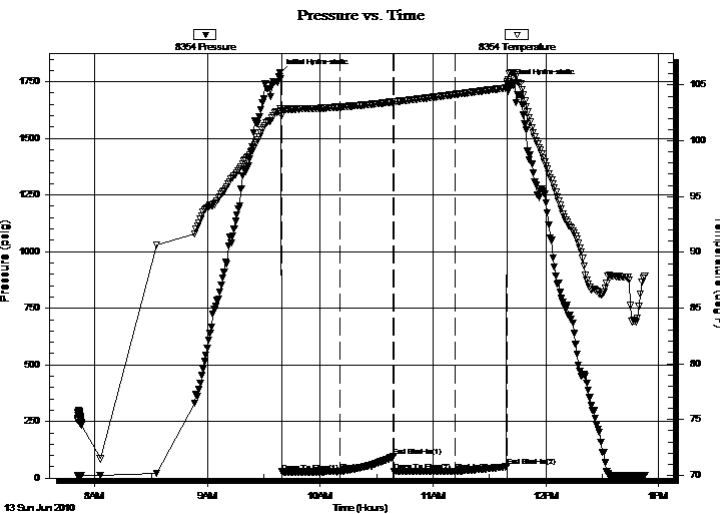
Serial #: 8354

Inside

Press@RunDepth: 29.99 psig @ 3591.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2010.06.13 End Date: 2010.06.13 Last Calib.: 2010.06.13
 Start Time: 07:50:49 End Time: 12:53:03 Time On Btm: 2010.06.13 @ 09:38:18
 Time Off Btm: 2010.06.13 @ 11:39:33

TEST COMMENT: IF-Weak died in 20 min

FF-No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1787.48	102.67	Initial Hydro-static
1	27.23	102.22	Open To Flow (1)
32	29.77	103.02	Shut-In(1)
61	95.15	103.49	End Shut-In(1)
61	28.67	103.49	Open To Flow (2)
94	29.99	104.15	Shut-In(2)
121	51.04	104.74	End Shut-In(2)
122	1739.50	105.33	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud w / oil spots	0.02

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Phillips Exploration Co LC

A J Rice Trust # 1-30

1601 Sagebrush
Wichita Ks 67230

30-8-22-Graham-Ks

ATTN: Jim Phillips

Job Ticket: 38977

DST#: 2

Test Start: 2010.06.13 @ 07:50:49

GENERAL INFORMATION:

Formation: **H-I-J LK**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:39:18

Time Test Ended: 12:53:03

Test Type: Conventional Bottom Hole (Reset)

Tester: Dan Bangle

Unit No: 38

Interval: 3590.00 ft (KB) To 3630.00 ft (KB) (TVD)

Reference Elevations: 2202.00 ft (KB)

Total Depth: 3630.00 ft (KB) (TVD)

2197.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8520 Outside

Press@RunDepth: psig @ 3591.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.06.13 End Date: 2010.06.13

Last Calib.: 2010.06.13

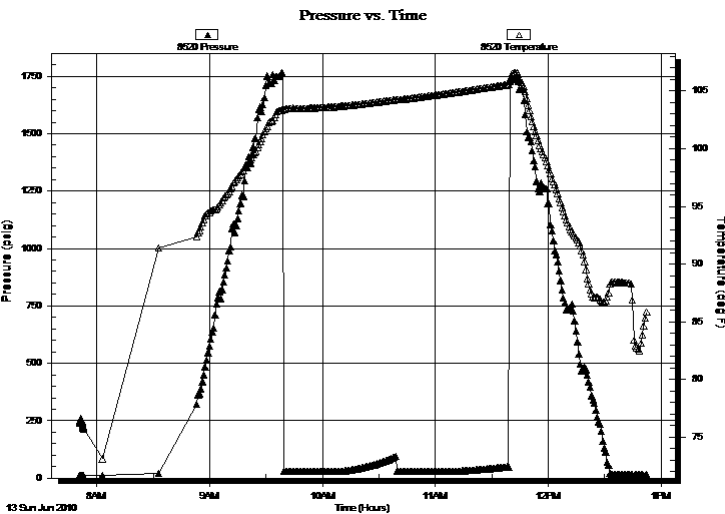
Start Time: 07:50:49 End Time: 12:52:48

Time On Btm:

Time Off Btm:

TEST COMMENT: IF-Weak died in 20 min

FF-No blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud w / oil spots	0.02

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Phillips Exploration Co LC

A J Rice Trust # 1-30

1601 Sagebrush
Wichita Ks 67230

30-8-22-Graham-Ks

Job Ticket: 38977

DST#: 2

ATTN: Jim Phillips

Test Start: 2010.06.13 @ 07:50:49

Tool Information

Drill Pipe:	Length: 3549.00 ft	Diameter: 3.80 inches	Volume: 49.78 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	55000.00 lb
			<u>Total Volume: 49.93 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial	48000.00 lb
Depth to Top Packer:	3590.00 ft			Final	48000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	30.00 ft				
Tool Length:	50.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3571.00	
Shut In Tool	5.00			3576.00	
Hydraulic tool	5.00			3581.00	
Packer	5.00			3586.00	20.00 Bottom Of Top Packer
Packer	4.00			3590.00	
Stubb	1.00			3591.00	
Recorder	0.00	8354	Inside	3591.00	
Recorder	0.00	8520	Outside	3591.00	
Perforations	26.00			3617.00	
Bullnose	3.00			3620.00	30.00 Bottom Packers & Anchor
Total Tool Length:	50.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Phillips Exploration Co LC

A J Rice Trust # 1-30

1601 Sagebrush
Wichita Ks 67230

30-8-22-Graham-Ks

Job Ticket: 38977

DST#: 2

ATTN: Jim Phillips

Test Start: 2010.06.13 @ 07:50:49

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: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.57 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud w / oil spots	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

