KANSAS CORPORATION COMMISSION ORIGINAL
OIL & GAS CONSERVATION DIVISION

Form ACO-1
September 1999
Form Must Be Typed

WELL COMPLETION FORM

CONFIDENTIAL

WELL HISTORY – DESCRIPTION OF WELL & LEASE

5/12/12

Operator: License # 3882
Name: SAMUEL GARY JR. & ASSOCIATES, INC.
Address: 1515 WYNKOOP, SUITE 700
City/State/Zip: DENVER, CO 80202-4838
Purchaser: GARY-WILLIAMS ENERGY CORPORATION
Operator Contact Person: CLAYTON CAMOZZI
Phone: (303) 831-4673 KCC
Contractor: Name: SOUTHWIND DRILLING MAY 12 2010
License: 33350 CONFIDENTIAL
Wellsite Geologist: TIM HEDRICK

Designate Type of Completion:
X New Well ____ Re-Entry ____ Workover
____ Oil ____ SWD ____ SIOW ____ Temp Abd.
____ Gas ____ ENHR ____ SIGW
X Dry ____ Other (Core, WSW, Expl., Cathodic, 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./SWD
____ Plug Back ____ Plug Back Total Depth
____ Commingled Docket No.
____ Dual Completion Docket No.
____ Other (SWD or Enhr.?) Docket No.

02/02/2010 Spud Date or Recompletion Date
02/12/2010 Date Reached TD
Completion Date or Recompletion Date

API No. 15 - 165-21867-0000
County: RUSH
~~NW~~ SW NE NE NE Sec. 23 Twp. 16 S. R. 16 ☐ East ☒ West
100 feet from NORTH of Section
550 feet from EAST Line of Section
Footages Calculated from Nearest Outside Section Corner:
(circle one) NE SE NW SW
Lease Name: SUPPES-YARMER Well #: 1-23
Field Name: WILDCAT
Producing Formation:
Elevation: Ground: 1947' Kelly Bushing: 1956'
Total Depth: 3646' Plug Back Total Depth: 3550'
Amount of Surface Pipe Set and Cemented at 1067 Feet
Multiple State 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 Pl: PA NJ 5-18-10
(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 No.:
Quarter Sec. Twp. S. R. ☐ East ☐ West
County: Docket No.:

INSTRUCTIONS: An original and two copies of this information shall be filed with the Kansas Corporation Commission, 130 South Market-Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information on side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

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.

Signature
Title: GEOLOGIST Date: 5/12/2010
Subscribed and sworn to before me this 12TH day of
2010
Notary Public: Janet Rakowski
Date Commission Expires: 06/05/2013

JANET RAKOWSKI NOTARY PUBLIC STATE OF COLORADO

My Commission Expires 06/05/2013

KCC Office Use ONLY
Y Letter of Confidentiality Attached
If Denied, Yes ☐ Date:
✓ Wireline Log Received
✓ Geologist Report Received
UIC Distribution

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Side Two

Operator Name: SAMUEL GARY JR & ASSOCIATES, INC. Lease Name: SUPPES-YARMER Well #: 1-23

Sec. 23 Twp. 16 S. R. 16 ☐ East ☒ West County: RUSH

INSTRUCTIONS: Show important tops and base of formation penetrated. Detail all cores. Report all final copes of drill stem 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. Attach copy of all Electric Wireline Logs surveyed. Attach final geologist well site report.

Drill Stem Tests Taken *(Attach Additional Sheets)*	☒ Yes	☐ No
Sample Sent to Geological Survey	☒ Yes	☐ No
Cores Taken	☐ Yes	☒ No
Electric Log Run *(Submit Copy)*	☒ Yes	☐ No

List All E. Logs Run: DUAL INDUCTION
DENSITY - NEUTRON
SONIC LOG
MICROLOG

☒ Log Formation (Top), Depth and Datum ☐ Sample

Name	Top	Datum
TOPEKA	2967'	-1011'
HEEBNER	3192'	-1236'
DOUGLAS	3225'	-1269'
LANSING	3247'	-1291'
ARBUCKLE	3553'	-1597'
TD	3646'	

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CASING RECORD ☒ New ☐ 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
SURFACE	12-1/4"	8-5/8"	23	1067	COMMON	450	2% GEL & 3% CC

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose:	Depth Top	Depth Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
____ Perforate ____ Protect Casing ____ Plug Back TD ____ Plug Off Zone					

Shots per Foot	PERFORATION RECORD – Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid. Fracture, Shot, Cement, Squeeze Record (Amount and Kind of Material Used)	Depth

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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
		0			

Disposition of Gas METHOD OF COMPLETION Production Interval

☐ Vented ☐ Sold ☐ Used on Lease ☐ Open Hole ☐ Perf. ☐ Dually Comp. ☐ Commingled
If vented, submit ACO-18.)

☐ Other *(Specify)*

Quality Oilwell Cementing Inc.

740 W WICHITA
P.O. Box 32
Russell, KS 67665

1002-AP-545 3/11

Invoice

Date	Invoice #
2/15/2010	2293

Bill To
Samuel Gary Jr & Associates Inc P.O. BOX 448 RUSSELL KS 67665

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P.O. No.	Terms	Project
	Net 30	

Quantity	Description	Rate	Amount
120	common	10.50	1,260.00T
80	POZ	6.50	520.00T
7	GEL	17.00	119.00T
50	Celloseal	2.00	100.00T
207	handling	2.00	414.00T
1	MILEAGE CHARGE	350.00	350.00T
1	pump truck charge plugging	500.00	500.00T
29	pump truck mileage charge	7.00	203.00T
693	discount if paid within 30 days DISCOUNT HAS ALREADY BEEN DEDUCTED	-1.00	-693.00T
	LEASE: SUPPES YARMER WELL #1-23		
	Rush county Sales Tax	6.30%	146.97

RECEIVED
FEB 22 2010
SAMUEL GARY JR.
& ASSOCIATES, INC.

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MAY 14 2010
KCC WICHITA

☑ DRLG ☐ COMP ☐ W/O ☐ LOE ☐ GG

AFE #: _____

ACCT #: 8200.138 135-60

APPROVED BY: _____

Thank you for your business. Dave

Total $2,919.97

QUALITY OILWELL CEMENTING, INC.

Office 785-483-2025 Home Office P.O. Box 32 Russell, KS 67665 No. 3300
Cell 785-324-1041

Date	Sec.	Twp.	Range	County	State	On Location	Finish
2-13-10	23	16	16	Rush	Ks		12:00AM

Lease Suppes Yaeger Well No. 1-23 Location Otis Ks 3N ½W S Into

Contractor Southwind Drlg #2

Type Job PTA

Hole Size 7 7/8 T.D. 3650

Csg. Depth

Tbg. Size Depth

Drill Pipe 4½ Depth

Tool Depth

Cement Left in Csg. Shoe Joint

Press Max. Minimum

Meas Line Displace

Perf.

EQUIPMENT

Pumptrk 5 No. Cementer Todd
Helper
Bulktrk 11 No. Driver Rick
Driver
Bulktrk No. Driver
Driver

JOB SERVICES & REMARKS

Pumptrk Charge PTA

Mileage 29

Footage

Total

Remarks:

1st Plug 3550' 50sx 60/40 4% Gel ¼# CF
Disp w/ mud
2nd Plug 1080' 50sx 60/40 4% Gel ¼# CF
Disp w/ H2O
3rd Plug 450' 50sx 60/40 4% Gel ¼# CF.
Disp w/ H2O
4th Plug 60' 20sx 60/40 4% Gel ¼# CF.

R hole 30sx 60/40 4% Gel ¼# CF.

Thanks
Todd Rick

Please call again

X Signature

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.

Charge To Sam Gary Jr. & Assoc.

Street

City State

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

CEMENT

Amount Ordered 200sx 60/40 4% Gel ¼# CF

Common 120

Poz. Mix 80

Gel. 7

Calcium

Mills

Salt

Flowseal 50

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SAMUEL GARY JR. ASSOCIATES, INC.

Handling 207

Mileage .08 per sx per mile

Pump Truck Charge

FLOAT EQUIPMENT

Guide Shoe

Centralizer

Baskets

AFU Inserts

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Rotating Head

Squeez Mainfold

Tax

Discount

Total Charge

Quality Oilwell Cementing Inc.

740 W WICHITA
P.O. Box 32
Russell, KS 67665

1002-AP-244

Invoice

Date	Invoice #
2/4/2010	2280

2/25

Bill To
Samuel Gary Jr & Associates Inc P.O. BOX 448 RUSSELL KS 67665

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P.O. No.	Terms	Project
	Net 30	

Quantity	Description	Rate	Amount
425	common	10.50	4,462.50T
8	GEL	17.00	136.00T
15	Calcium	42.00	630.00T
106	Celloseal	2.00	212.00T
448	handling	2.00	896.00
1	MILEAGE CHARGE	600.00	600.00
1	8 5/8 solid rubber plug	102.00	102.00T
1	8 5/8 baffle plate	105.00	105.00T
3	8 5/8 basket	175.00	525.00T
3	8 5/8" centralizers	66.66667	200.00T
1	surface pipe 500-1500ft	550.00	550.00
29	pump truck mileage charge	7.00	203.00
1,275	discount if paid within 30 days DISCOUNT HAS ALREADY BEEN DEDUCTED	-1.00	-1,275.00T
450	discount if paid within 30 days DISCOUNT HAS ALREADY BEEN DEDUCTED	-1.00	-450.00
	LEASE: SUPPES-YARMER WELL #1-23		
	Rush county Sales Tax	5.30%	270.17

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MAY 14 2010
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☐ DRLG ☐ COMP ☐ W/O ☐ LOE ☐ GG

AFE #

ACCT #: 8260.138 135-60

APPROVED BY:

Thank you for your business. Dave

Total $7,166.67

QUALITY OILWELL CEMENTING, INC.

Phone 785-483-2025 Home Office P.O. Box 32 Russell, KS 67665 No. 3567
Cell 785-324-1041

Date	Sec.	Twp.	Range	County	State	On Location	Finish
2-3-2010	23	16S	16W	Rush	Ks		2:15 PM

Lease Suppes-Farmer Well No. #1-23 Location Galatia, Ks - 5W, 1N, 1/8W, 5/8

Contractor Southwind Drilling Rig #2
Type Job Surface
Hole Size 12¼" T.D. 1068'
Csg. 8 5/8" 24# Depth 1067'
Tbg. Size Depth
Tool Depth
Cement Left in Csg. 10, 11' Shoe Joint 10, 11'
Meas Line Displace 67.32

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.
Charge To Samuel Gary and Associates
Street
City State
The above was done to satisfaction and supervision of owner agent or contractor.

EQUIPMENT

Pumptrk 9 No. Cementer Helper Paul
Bulktrk 4 No. Driver Driver Rocky
~~Bulktrk~~ Pickup No. Driver Driver Rick

JOB SERVICES & REMARKS

Remarks: Baskets @ 1057'
463'
.55'
Centralizer's @ 920'
646'
235'

Cement did Circulate.

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Thank You

X Signature

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CEMENT

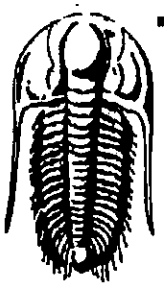
Amount Ordered 450 sx Common 3%cc 2%Gel
Common 425 @ 10.50 4462.50
Poz. Mix ~~8 @ 12.00~~
Gel. ~~15~~ 8 @ 17.00 136.00
Calcium 15 @ 42.00 630.00
Hulls
Salt
Flowseal 106 @ 2.00
Handling 448 @ 2.00 896.00
Mileage 600.00

FLOAT EQUIPMENT

Guide Shoe
Centralizer 3 Cents Reg. 200.00
Baskets 3 525.00
AFU Inserts
8 5/8" Baffle plate 105.00
8 5/8" Rubber plug 102.00

Pumptrk Charge Long Surface 550.00
Mileage 29 @ 7.00

Tax
Discount
Total Charge



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Samuel Gary Jr & Associates**

1515 Wynkoop St
Suite 700
Denver, CO 80202

ATTN: Clayton Camozzi

23-16s16w Rush KS

Suppes-Yarmer #1-23

Start Date: 2010.02.10 @ 00:54:51
End Date: 2010.02.10 @ 09:35:21
Job Ticket #: 37206 DST #: 1

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Trilobite Testing, Inc
PO Box 1733 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

DRILL STEM TEST REPORT

Samuel Gary Jr & Associates

1515 Wynkoop St
Suite 700
Denver, CO 80202
ATTN: Clayton Camozzi

Suppes-Yarmer #1-23

23-16s16w Rush KS

Job Ticket: 37206 **DST#: 1**

Test Start: 2010.02.10 @ 00:54:51

GENERAL INFORMATION:

Formation: **LKC "C-F"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 03:21:51
Time Test Ended: 09:35:21

Test Type: Conventional Bottom Hole
Tester: Tyson Flax
Unit No: 44

Interval: 3259.00 ft (KB) To 3340.00 ft (KB) (TVD)
Total Depth: 3340.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

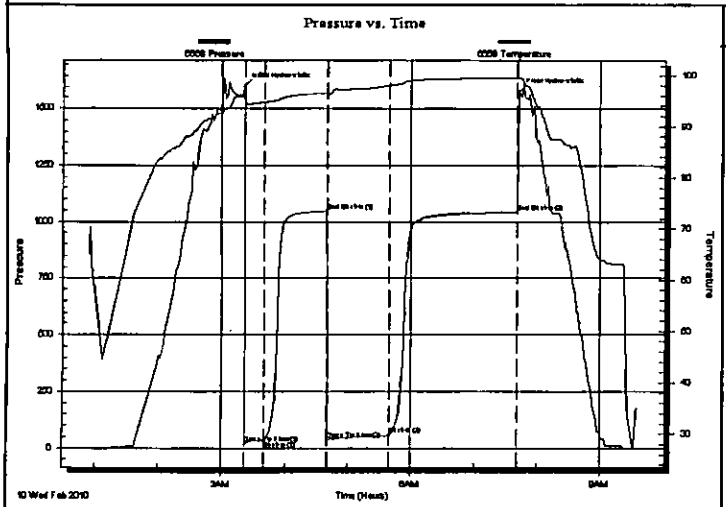
Reference Elevations: 1956.00 ft (KB)
1948.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 6668 **Inside**

Press@RunDepth: 56.35 psig @ 3264.00 ft (KB)
Start Date: 2010.02.10 End Date: 2010.02.10
Start Time: 00:54:52 End Time: 09:35:21

Capacity: 8000.00 psig
Last Calib.: 2010.02.10
Time On Btm: 2010.02.10 @ 03:20:51
Time Off Btm: 2010.02.10 @ 07:42:51

TEST COMMENT: IFP-Weak surface blow built to 3"
ISI-no blow back
FFP-Weak blow built to BOB in 48 min
FSI-Weak surface blow back died in 15 min



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1602.28	95.65	Initial Hydro-static
1	19.98	94.24	Open To Flow (1)
19	33.99	94.62	Shut-In(1)
79	1047.61	96.56	End Shut-In(1)
80	37.26	96.34	Open To Flow (2)
139	56.35	98.10	Shut-In(2)
260	1042.94	99.41	End Shut-In(2)
262	1577.40	99.48	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
100.00	VSOCM 2%O,98%M	1.14
0.00	140' GIP	0.00

Gas Rates

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

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Samuel Gary Jr & Associates

1515 Wynkoop St
Suite 700
Denver, CO 80202
ATTN: Clayton Camozzi

Suppes-Yarmer #1-23

23-16s16w Rush KS

Job Ticket: 37206 DST#: 1

Test Start: 2010.02.10 @ 00:54:51

Tool Information

Drill Pipe:	Length:	3211.00 ft	Diameter:	3.82 inches	Volume:	45.52 bbl	Tool Weight:	2500.00 lb	
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	2.25 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:	50000.00 lb	
					Total Volume:	45.67 bbl	Tool Chased	0.00 ft	
Drill Pipe Above KB:		10.00 ft					String Weight: Initial	40000.00 lb	
Depth to Top Packer:		3259.00 ft					Final	42000.00 lb	
Depth to Bottom Packer:		ft							
Interval between Packers:		81.00 ft							
Tool Length:		109.00 ft							
Number of Packers:		2	Diameter:	6.75 inches					

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Shut In Tool	5.00			3236.00		
Change Over Sub	1.00			3237.00		
Hydraulic tool	5.00			3242.00		
Jars	5.00			3247.00		
Safety Joint	2.00			3249.00		
Packer	5.00			3254.00	28.00	Bottom Of Top Packer
Packer	5.00			3259.00		
Stubb	1.00			3260.00		
Perforations	3.00			3263.00		
Change Over Sub	1.00			3264.00		
Recorder	0.00	6668	Inside	3264.00		
Recorder	0.00	6669	Inside	3264.00		
Blank Spacing	62.00			3326.00		
Change Over Sub	1.00			3327.00		
Perforations	10.00			3337.00		
Bullnose	3.00			3340.00	81.00	Bottom Packers & Anchor
Total Tool Length:	**109.00**					

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr & Associates

1515 Wynkoop St
Suite 700
Denver, CO 80202

ATTN: Clayton Camozzi

Suppes-Yarmer #1-23

23-16s16w Rush KS

Job Ticket: 37206 **DST#: 1**

Test Start: 2010.02.10 @ 00:54:51

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:	44.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	9.17 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	4800.00 ppm				
Filter Cake:	inches				

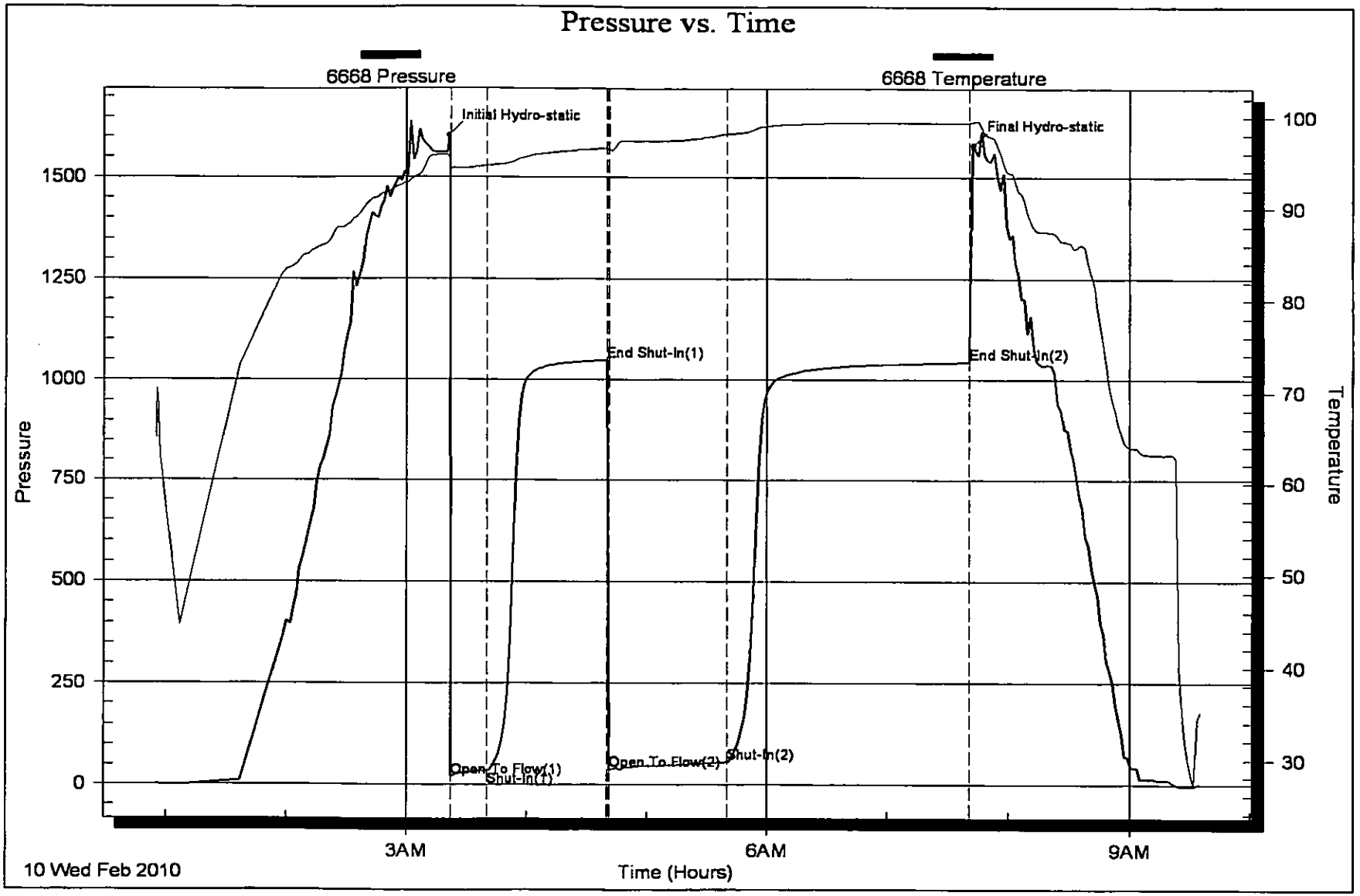
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
100.00	VSOCM 2%O,98%M	1.140
0.00	140' GIP	0.000

Total Length: 100.00 ft Total Volume: 1.140 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:


Pressure vs. Time
6668 Pressure
6668 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
End Shut-In(2)
Open To Flow(1)
Shut-In(1)
Open To Flow(2)
Shut-In(2)
1500
1250
1000
750
500
250
0
Pressure
100
90
80
70
60
50
40
30
Temperature
3AM
6AM
9AM
10 Wed Feb 2010
Time (Hours)

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC

Samuel Gary Jr & Associates

1515 Wynkoop St
Suite 700
Denver, CO 80202
ATTN: Clayton Camozzi

Suppes-Yarmer #1-23

23-16s16w Rush KS

Job Ticket: 37207 **DST#: 2**

Test Start: 2010.02.10 @ 17:45:17

GENERAL INFORMATION:

Formation: LKC "G"
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 19:57:47
Time Test Ended: 01:14:47

Test Type: Conventional Bottom Hole
Tester: Tyson Flax
Unit No: 44

Interval: 3339.00 ft (KB) To 3364.00 ft (KB) (TVD)
Total Depth: 3340.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

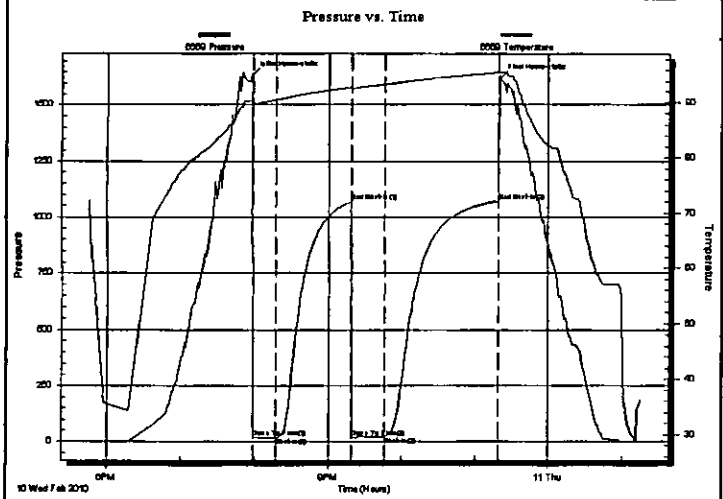
Reference Elevations: 1956.00 ft (KB)
1948.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 6669 **Inside**

Press@RunDepth: 20.86 psig @ 3343.00 ft (KB)
Start Date: 2010.02.10 End Date: 2010.02.11
Start Time: 17:45:18 End Time: 01:14:47

Capacity: 8000.00 psig
Last Calib.: 2010.02.11
Time On Btm: 2010.02.10 @ 19:57:17
Time Off Btm: 2010.02.10 @ 23:20:17

TEST COMMENT: IFP-Weak surface blow built to 1.25"
ISI-no blow back
FFP-Weak surface blow throughout
FSI-no blow back



PRESSURE SUMMARY

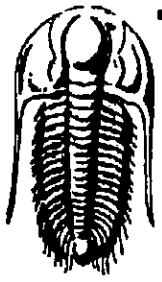
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1639.13	89.93	Initial Hydro-static
1	17.10	89.60	Open To Flow (1)
20	18.26	90.51	Shut-In(1)
81	1066.87	92.81	End Shut-In(1)
82	19.36	92.59	Open To Flow (2)
109	20.86	93.35	Shut-In(2)
202	1070.30	95.63	End Shut-In(2)
203	1626.67	95.68	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud w / scum of oil	0.05

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Samuel Gary Jr & Associates**

1515 Wynkoop St
Suite 700
Denver, CO 80202

ATTN: Clayton Camozzi

23-16s16w Rush KS

Suppes-Yarmer #1-23

Start Date: 2010.02.10 @ 17:45:17
End Date: 2010.02.11 @ 01:14:47
Job Ticket #: 37207 DST #: 2

Trilobite Testing, Inc
PO Box 1733 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

DRILL STEM TEST REPORT

TOOL DIAGRAM

Samuel Gary Jr & Associates

1515 Wynkoop St
Suite 700
Denver, CO 80202

ATTN: Clayton Camozzi

Suppes-Yarmer #1-23

23-16s16w Rush KS

Job Ticket: 37207 **DST#: 2**

Test Start: 2010.02.10 @ 17:45:17

Tool Information

Drill Pipe:	Length:	3304.00 ft	Diameter:	3.82 inches	Volume:	46.84 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	2.25 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:	60000.00 lb
					Total Volume:	46.99 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		23.00 ft					String Weight: Initial	42000.00 lb
Depth to Top Packer:		3339.00 ft					Final	42000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		25.00 ft						
Tool Length:		53.00 ft						
Number of Packers:		2	Diameter:	6.75 inches				

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Shut In Tool	5.00			3316.00		
Change Over Sub	1.00			3317.00		
Hydraulic tool	5.00			3322.00		
Jars	5.00			3327.00		
Safety Joint	2.00			3329.00		
Packer	5.00			3334.00	28.00	Bottom Of Top Packer
Packer	5.00			3339.00		
Stubb	1.00			3340.00		
Perforations	3.00			3343.00		
Recorder	0.00	6668	Inside	3343.00		
Recorder	0.00	6669	Inside	3343.00		
Perforations	18.00			3361.00		
Bullnose	3.00			3364.00	25.00	Bottom Packers & Anchor
Total Tool Length:	**53.00**					

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr & Associates

1515 Wynkoop St
Suite 700
Denver, CO 80202

ATTN: Clayton Camozzi

Suppes-Yarmer #1-23

23-16s16w Rush KS

Job Ticket: 37207 **DST#: 2**

Test Start: 2010.02.10 @ 17:45:17

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:	bbl		
Water Loss:	8.78 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	6300.00 ppm				
Filter Cake:	inches				

Recovery Information

Recovery Table

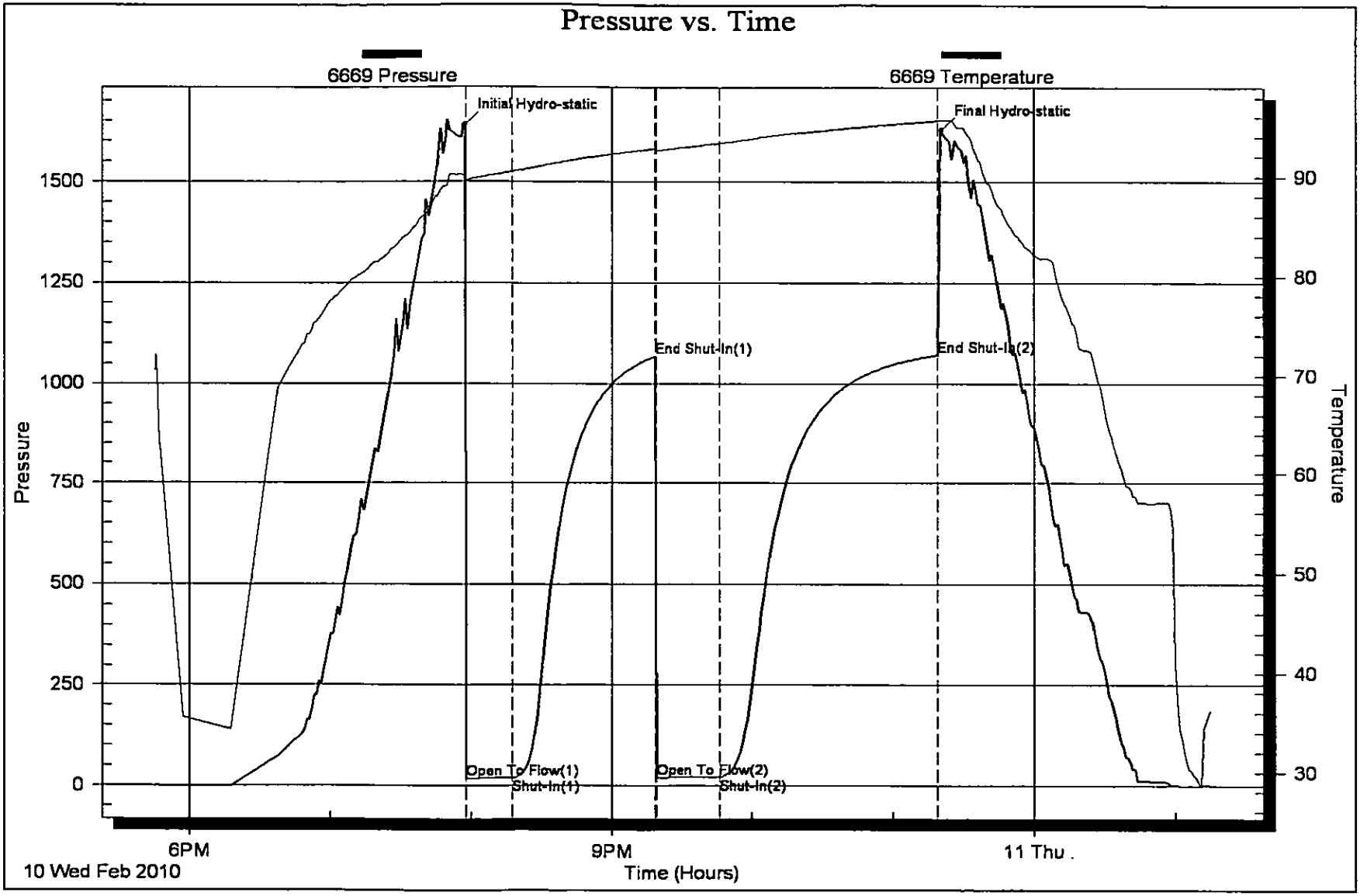
Length ft	Description	Volume bbl
10.00	Mud w / scum of oil	0.049

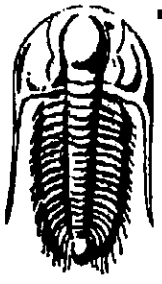
Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:


Pressure vs. Time
6669 Pressure
6669 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
End Shut-In(2)
Open To Flow(1)
Shut-In(1)
Open To Flow(2)
Shut-In(2)
Pressure
Temperature
1500
1250
1000
750
500
250
0
90
80
70
60
50
40
30
6PM
9PM
11 Thu .
10 Wed Feb 2010
Time (Hours)



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Samuel Gary Jr & Associates**

1515 Wynkoop St
Suite 700
Denver, CO 80202

ATTN: Clayton Camozzi

23-16s16w Rush KS

Suppes-Yarmer #1-23

Start Date: 2010.02.12 @ 03:30:18
End Date: 2010.02.12 @ 07:45:18
Job Ticket #: 37208 DST #: 3

Trilobite Testing, Inc
PO Box 1733 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC

Samuel Gary Jr & Associates

1515 Wynkoop St
Suite 700
Denver, CO 80202
ATTN: Clayton Camozzi

Suppes-Yarmer #1-23

23-16s16w Rush KS

Job Ticket: 37208 **DST#: 3**

Test Start: 2010.02.12 @ 03:30:18

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened:
Time Test Ended: 07:45:18

Test Type: Conventional Bottom Hole
Tester: Tyson Flax
Unit No: 44

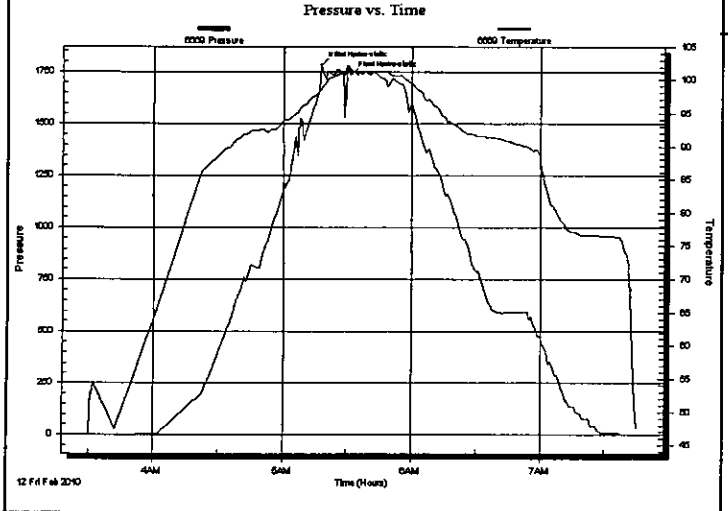
Interval: 3551.00 ft (KB) To 3560.00 ft (KB) (TVD)
Total Depth: 3560.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1956.00 ft (KB)
1948.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 6669 **Inside**
Press@RunDepth: psig @ 3557.00 ft (KB)
Start Date: 2010.02.12 End Date: 2010.02.12
Start Time: 03:30:19 End Time: 07:45:18

Capacity: 8000.00 psig
Last Calib.: 2010.02.12
Time On Btm: 2010.02.12 @ 05:17:48
Time Off Btm: 2010.02.12 @ 05:31:48

TEST COMMENT: IFP-Packer failure
ISI-
FFP-
FSI-



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1783.79	98.47	Initial Hydro-static
14	1738.19	101.43	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Samuel Gary Jr & Associates

1515 Wynkoop St
Suite 700
Denver, CO 80202
ATTN: Clayton Camozzi

Suppes-Yarmer #1-23

23-16s16w Rush KS

Job Ticket: 37208 **DST#: 3**

Test Start: 2010.02.12 @ 03:30:18

Tool Information

Drill Pipe:	Length:	3521.00 ft	Diameter:	3.82 inches	Volume:	49.91 bbl	Tool Weight:		2500.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	2.25 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:		lb
					Total Volume:	50.06 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		28.00 ft					String Weight:	Initial	42000.00 lb
Depth to Top Packer:		3551.00 ft						Final	lb
Depth to Bottom Packer:		ft							
Interval between Packers:		9.00 ft							
Tool Length:		37.00 ft							
Number of Packers:		2	Diameter:	6.75 inches					

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Shut In Tool	5.00			3528.00		
Change Over Sub	1.00			3529.00		
Hydraulic tool	5.00			3534.00		
Jars	5.00			3539.00		
Safety Joint	2.00			3541.00		
Packer	5.00			3546.00	28.00	Bottom Of Top Packer
Packer	5.00			3551.00		
Stubb	1.00			3552.00		
Perforations	5.00			3557.00		
Recorder	0.00	6668	Inside	3557.00		
Recorder	0.00	6669	Inside	3557.00		
Bullnose	3.00			3560.00	9.00	Bottom Packers & Anchor
Total Tool Length:	**37.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr & Associates

1515 Wynkoop St
Suite 700
Denver, CO 80202
ATTN: Clayton Camozzi

Suppes-Yarmer #1-23

23-16s16w Rush KS

Job Ticket: 37208 **DST#: 3**

Test Start: 2010.02.12 @ 03:30:18

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:	52.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	9.98 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	7700.00 ppm				
Filter Cake:	inches				

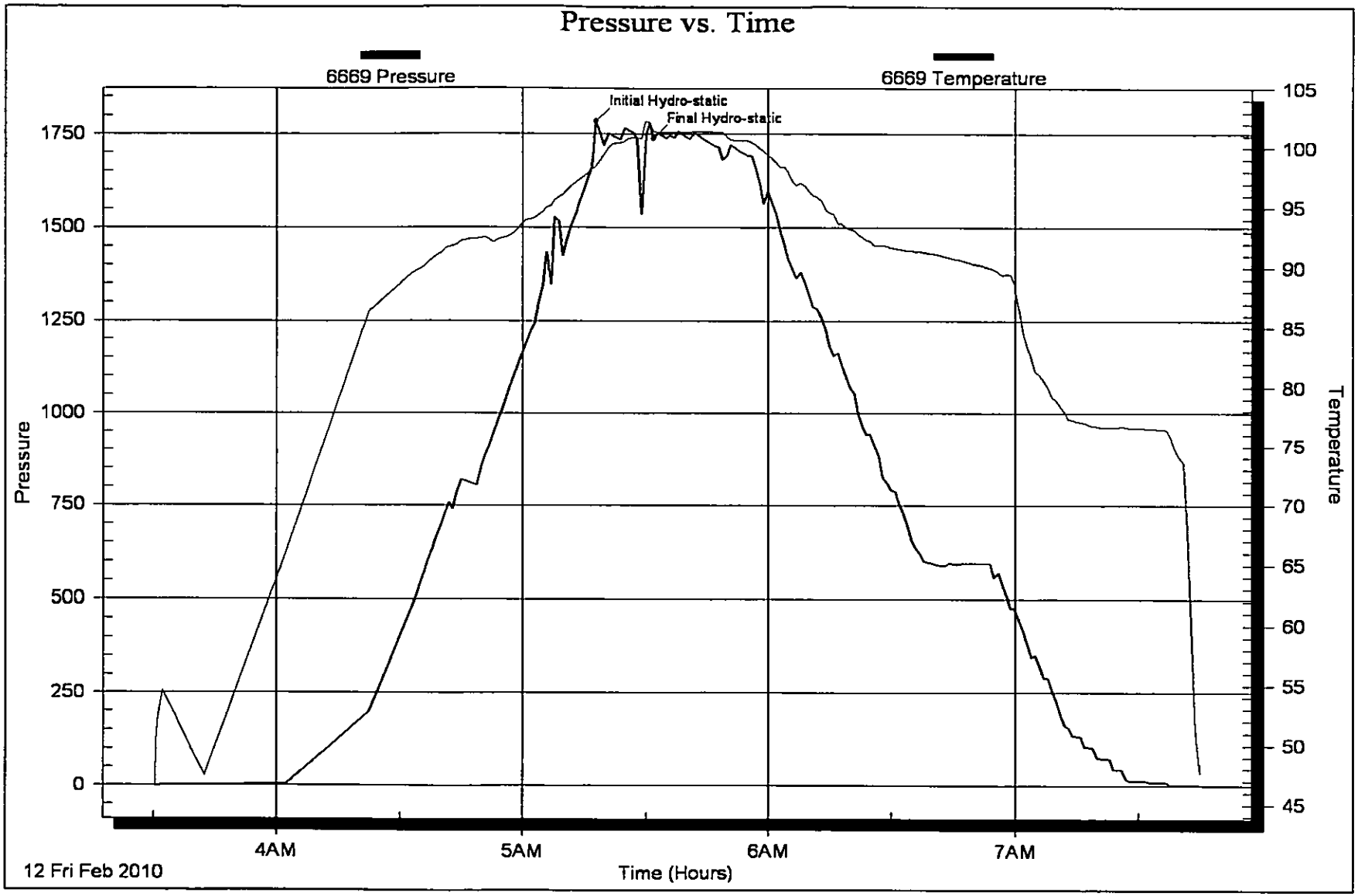
Recovery Information

Recovery Table

Length ft	Description	Volume bbl

Total Length: ft Total Volume: bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:


Pressure vs. Time
6669 Pressure
6669 Temperature
Initial Hydro-static
Final Hydro-static
1750
1500
1250
1000
750
500
250
0
Pressure
105
100
95
90
85
80
75
70
65
60
55
50
45
Temperature
4AM
5AM
6AM
7AM
Time (Hours)
12 Fri Feb 2010

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC

Samuel Gary Jr & Associates

1515 Wynkoop St
Suite 700
Denver, CO 80202
ATTN: Clayton Camozzi

Suppes-Yarmer #1-23

23-16s16w Rush KS

Job Ticket: 37209 **DST#: 4**

Test Start: 2010.02.12 @ 07:55:13

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 09:37:13
Time Test Ended: 14:34:43

Test Type: Conventional Bottom Hole
Tester: Tyson Flax
Unit No: 44

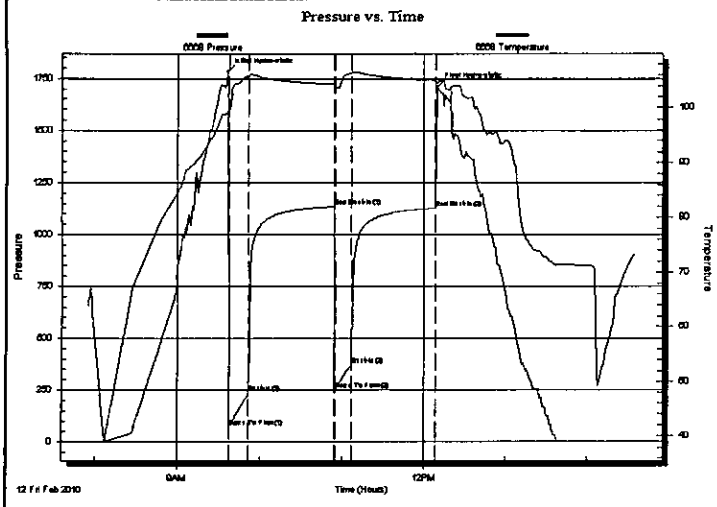
Interval: 3473.00 ft (KB) To 3560.00 ft (KB) (TVD)
Total Depth: 3560.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1956.00 ft (KB)
1948.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 6668 Inside
Press@RunDepth: 372.45 psig @ 3478.00 ft (KB)
Start Date: 2010.02.12 End Date: 2010.02.12
Start Time: 07:55:14 End Time: 14:34:43

Capacity: 8000.00 psig
Last Calib.: 2010.02.12
Time On Btm: 2010.02.12 @ 09:36:13
Time Off Btm: 2010.02.12 @ 12:09:43

TEST COMMENT: IFP-BOB in 2 min
ISI-Weak surface blow back died in 20 min
FFP-BOB in 2.5 min
FSI-Weak surface blow back died in 2 min



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1782.35	98.96	Initial Hydro-static
1	68.34	98.86	Open To Flow (1)
16	237.32	105.88	Shut-In(1)
78	1133.15	104.34	End Shut-In(1)
79	249.14	104.05	Open To Flow (2)
91	372.45	106.40	Shut-In(2)
153	1124.42	105.00	End Shut-In(2)
154	1711.45	104.51	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
360.00	MW 90%W,10%M	4.83
240.00	WM 50%W,50%M	3.40
195.00	Mud	2.76

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Samuel Gary Jr & Associates**

1515 Wynkoop St
Suite 700
Denver, CO 80202

ATTN: Clayton Camozzi

23-16s16w Rush KS

Suppes-Yarmer #1-23

Start Date: 2010.02.12 @ 07:55:13
End Date: 2010.02.12 @ 14:34:43
Job Ticket #: 37209 DST #: 4

Trilobite Testing, Inc
PO Box 1733 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Samuel Gary Jr & Associates

1515 Wynkoop St
Suite 700
Denver, CO 80202
ATTN: Clayton Camozzi

Suppes-Yarmer #1-23

23-16s16w Rush KS

Job Ticket: 37209 **DST#: 4**

Test Start: 2010.02.12 @ 07:55:13

Tool Information

Drill Pipe:	Length:	3429.00 ft	Diameter:	3.82 inches	Volume:	48.61 bbl	Tool Weight:		2500.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	2.25 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:		60000.00 lb
					Total Volume:	48.76 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		14.00 ft					String Weight:	Initial	42000.00 lb
Depth to Top Packer:		3473.00 ft						Final	46000.00 lb
Depth to Bottom Packer:		ft							
Interval between Packers:		87.00 ft							
Tool Length:		115.00 ft							
Number of Packers:		2	Diameter:	6.75 inches					

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Shut In Tool	5.00			3450.00		
Change Over Sub	1.00			3451.00		
Hydraulic tool	5.00			3456.00		
Jars	5.00			3461.00		
Safety Joint	2.00			3463.00		
Packer	5.00			3468.00	28.00	Bottom Of Top Packer
Packer	5.00			3473.00		
Stubb	1.00			3474.00		
Perforations	3.00			3477.00		
Change Over Sub	1.00			3478.00		
Recorder	0.00	6668	Inside	3478.00		
Recorder	0.00	6669	Inside	3478.00		
Blank Spacing	63.00			3541.00		
Change Over Sub	1.00			3542.00		
Perforations	15.00			3557.00		
Bullnose	3.00			3560.00	87.00	Bottom Packers & Anchor
Total Tool Length:	**115.00**					

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr & Associates

1515 Wynkoop St
Suite 700
Denver, CO 80202
ATTN: Clayton Camozzi

Suppes-Yarmer #1-23

23-16s16w Rush KS

Job Ticket: 37209 **DST#: 4**

Test Start: 2010.02.12 @ 07:55:13

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:	30000 ppm
Viscosity:	52.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	9.97 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	7700.00 ppm				
Filter Cake:	inches				

Recovery Information

Recovery Table

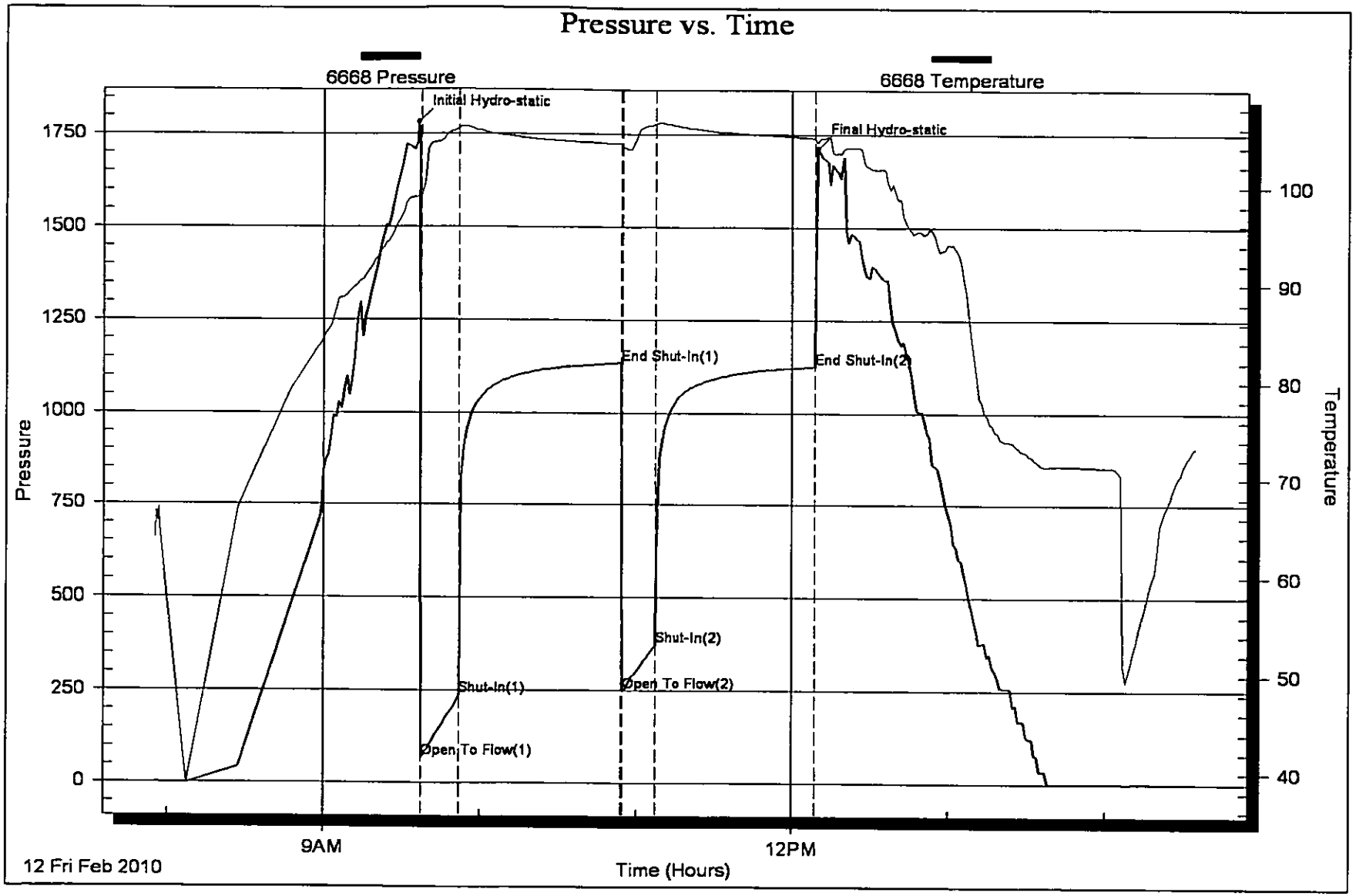
Length ft	Description	Volume bbl
360.00	MW 90%W,10%M	4.825
240.00	WM 50%W,50%M	3.402
195.00	Mud	2.764

Total Length: 795.00 ft Total Volume: 10.991 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: RW .28 @ 56F = 30000 chlorides


Pressure vs. Time
6668 Pressure
6668 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
End Shut-In(2)
Shut-In(1)
Shut-In(2)
Open To Flow(1)
Open To Flow(2)
Pressure
Temperature
1750
1500
1250
1000
750
500
250
0
100
90
80
70
60
50
40
9AM
12PM
12 Fri Feb 2010
Time (Hours)