

1350702

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
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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	Mid-Continent Resources, Inc.
Well Name	HUMBURG 3X
Doc ID	1350702

Tops

Name	Top	Datum
Anhydrite	1487	794
Heebner	3741	-1460
Lansing	3787	-1506
Base Kansas City	4096	-1815
Pawnee	4204	-1923
Ft. Scott	4284	-2003
Cherokee	4305	-2024
Mississippian	4375	-2094
RTD	4406	-2125



CHARGE TO: American Warrior Inc.
 ADDRESS:
 CITY, STATE, ZIP CODE:

TICKET 29886

PAGE 1 OF 1

SERVICE LOCATIONS
 1. Abess City, KS WELL PROJECT NO. 3X COUNTY/PARISH Abess STATE KS CITY Beattie DATE 2-8-17 OWNER Swaine
 2. Abess City, KS TICKET TYPE CONTRACTOR H-D Oils/field Service RIG NAME NO. 11 SHIPPED VA DELIVERED TO CT Location ORDER NO.
 3. Abess City, KS WELL TYPE Oil WELL CATEGORY Development JOB PURPOSE General 5 1/2" Prod Collar WELL PERMIT NO. WELL LOCATION Beattie - 5 1/2" 5' Inside
 4. REFERRAL LOCATION INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	MILEAGE	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT	DF								
575					Tdk # 115	20	mi				5.00	100.00
576 D					Pump Charge - Prod Collar	1	job				1250.00	1250.00
330					SMD Cement	120	lbs				15.75	1890.00
276					Flocke	4	lb				2.25	62.50
290					D-Air	1	gal				42.00	42.00
105					Prod Collar Tool Rental	1	job				275.00	275.00
581					Service Charge Cement	175	lbs				1.50	262.50
582					Minimum Drayage Charge	1	job				250.00	250.00

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

DATE SIGNED 2-8-17 TIME SIGNED 1:00 RPJA

SWIFT OPERATOR David Kuehn APPROVAL

REMIT PAYMENT TO:
 SWIFT SERVICES, INC.
 P.O. BOX 466
 NESS CITY, KS 67560
 785-798-2300

SURVEY
 OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?
 WE UNDERSTOOD AND MET YOUR NEEDS?
 OUR SERVICE WAS PERFORMED WITHOUT DELAY?
 WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?
 ARE YOU SATISFIED WITH OUR SERVICE?
 CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL 4137.00
 TOTAL 42884.84

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 2-8-17 PAGE 1

CUSTOMER American Warrior WELL NO. 3x LEASE Hamburg JOB TYPE Cement 5 1/2" Post Collar TICKET NO. 29886g

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1000							on location 2 3/8" x 5 1/2"
								P.C. - 1481 175 sks SMD w/ 1/4" Fb
	1100	∅	∅		✓		1000	Pressure Test * Hold *
								open P.C.
	1105	3	5		✓		300	Injection Rate
	1107	3 1/2	6		✓		300	Mix 120 sks SMD w/ 1/4" Fb @ 112 ppg circulate cement to pit * 15 sks *
	1120	4	5 1/2		✓		400	Displace Cement
	1125	∅	∅		✓		1000	close P.C. test * Hold *
								Run 4 jts * 120 sks total *
	1135	4	20		✓		300	Reverse clean * 15 sks pit *
								wash up trucks
	1200							Job Complete

Thank You
Dave Jason John



CHANGE TO: MID CONTINENT RESOURCES
 ADDRESS: ~~ARIZONA~~ ARIZONA
 CITY, STATE, ZIP CODE

TICKET 30207
 PAGE 1 OF 2

SERVICE LOCATIONS
 1. NESS CITY, KS. WELL PROJECT NO. HUMBURG 3X
 COUNTY/PARISH NESS
 STATE KS. CITY BARUVE, KS.
 DATE FEB 16
 OWNER

TICKET TYPE
 SERVICE
 SALES
 CONTRACTOR DISCOVERY DRILLING # 3
 RIG NAME/NO. NESS
 ORDER NO.

WELL TYPE OIL
 WELL CATEGORY DEVELOPMENT
 JOB PURPOSE S/LONGSTRUNG
 WELL PERMIT NO. 4/25, B W I 710

INVOICE INSTRUCTIONS

OFFICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	MILEAGE	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT	DF								
575					MILEAGE #115	20	mi				5.00	100.00
578					RAMP CHARGE	1	JOB				1250.00	1250.00
402					CENTRALIZERS	5	EA				60.00	300.00
403					CEMENT BASKET	2	EA				250.00	500.00
404					PORT COLLAR	1	EA				250.00	250.00
406					LATCH DOWN PLUG + BARGE	1	EA				225.00	225.00
407					INSERT FLOAT SHOE W/ HILL	1	EA				300.00	300.00
281					MUD FLUSH	5	gal				1.25	6.25
281					KEL	2	gal				25.00	50.00

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MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

DATE SIGNED FEB 17 TIME SIGNED 1145
 A.M.
 P.M.

SWIFT OPERATOR [Signature]

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES [Signature]

APPROVAL

REMIT PAYMENT TO:
 SWIFT SERVICES, INC.
 P.O. BOX 466
 NESS CITY, KS 67560
 785-798-2300

SURVEY
 OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?
 WE UNDERSTOOD AND MET YOUR NEEDS?
 OUR SERVICE WAS PERFORMED WITHOUT DELAY?
 WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?
 ARE YOU SATISFIED WITH OUR SERVICE?
 CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL 5850.50
 TAX 10027.50
 TOTAL 6853.00

Thank You!



PO Box 466
Ness City, KS 67560
Off: 785-798-2300

TICKET CONTINUATION

TICKET No. 30807

WELLS CONTINUED REC.

WELL HUMBURG 3X

DATE 1/27/87 PAGE 2 OF 2

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING		TIME	DESCRIPTION	QTY	U/M	QTY	U/M	UNIT PRICE	AMOUNT
		LOC	ADPT								
276					FLOECE	45	Hbs			2.35	101.25
283					SALT	900	lbs			.20	180.00
284					CAUSEAL	8	5X			30.00	240.00
292					HALAD 322	125	lbs			8.00	1000.00
0											
0											
325					STANDARD EA-2	175	5X			12.35	2143.75
581											
582											
SERVICE CHARGE											
MILEAGE CHANGE											
TOTAL						183.20					250.00
LOADED MILES						80					
CUBIC FEET						175.5X					
TON MILES						183.20					
CONTINUATION TOTAL											4177.25



Services, Inc.

CHARGE TO: _____
 ADDRESS: _____
 CITY, STATE, ZIP CODE: _____

TICKET 30100

PAGE 1 OF 1

WELL/PROJECT NO. 116 LEASE 116 COUNTY/PARISH 1015 STATE LA CITY De Cade DATE 05 JAN 17 OWNER _____
 TICKET TYPE SERVICE SALES CONTRACTOR _____ RIG NAME/NO. _____ SHIPPED DELIVERED TO _____ ORDER NO. _____
 WELL TYPE _____ WELL CATEGORY _____ JOB PURPOSE _____ WELL PERMIT NO. _____ WELL LOCATION _____
 INVOICE INSTRUCTIONS _____

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575					MILEAGE	20	hr			5.00	100.00
5765					TRUCK CHARGE	1	hr			800.00	800.00
325					STANDARD CONTACT	150	sk			12.85	1837.50
279					PERMITS	3	sk			25.00	75.00
278					TRUCK CHARGE	7	sk			40.00	280.00
290					D-AIR	2	gal			42.00	84.00
581					TRUCK CHARGE	150	sk			1.50	225.00
522					DRYING (M.A)	1500	lb			200.00	250.00

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JUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

DATE SIGNED _____ TIME SIGNED _____
 A.M. P.M.

REMIT PAYMENT TO:
SWIFT SERVICES, INC.
 P.O. BOX 466
 NESS CITY, LA 70560
 785-798-2300

SURVEY

OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?	AGREE	UN-DECIDED	DIS-AGREE
WE UNDERSTOOD AND MET YOUR NEEDS?			
OUR SERVICE WAS PERFORMED WITHOUT DELAY?			
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?			
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES	<input type="checkbox"/> NO	

CUSTOMER DID NOT WISH TO RESPOND

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket

APPROVAL _____

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 25 JAN 17 PAGE NO.

CUSTOMER: *THE SWIFT PRODUCERS* WELL NO. *3X* LEASE *Humberg* JOB TYPE *CONCRETE - CEMENT PIP* TICKET NO. *30137*

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								<i>150 SK STANDARD) cement 2 1/2" 3/16 CC</i>
								<i>8 1/2" 24" casing - 221' 5 joints</i>
	<i>2000</i>							<i>on loc TRK 114</i>
	<i>2046</i>							<i>start 8 1/2" 24" casing in well</i>
	<i>2130</i>							<i>circulate well</i>
	<i>2140</i>							
	<i>2155</i>	<i>3 3/4</i>	<i>37</i>				<i>200</i>	<i>mix STD 2 1/2" 3/16 cement 150 sk @ 147 ppg</i>
	<i>2155</i>	<i>4</i>					<i>200</i>	<i>Displace cement w/ H₂O</i>
								<i>→ cement to surface ←</i>
	<i>2200</i>	<i>3 1/2</i>	<i>13</i>				<i>300</i>	<i>Kickout shot in 8 1/2" 1500 ft 10" to 305 ft p.p.f</i>
	<i>2205</i>							<i>Wash trick</i>
	<i>2220</i>							<i>Pack up</i>
	<i>2230</i>							<i>job complete</i>
								<i>Thanks</i>
								<i>Flint, Blaine & JOHN</i>



DRILL STEM TEST REPORT

Prepared For: **Mid-Continent Resources Inc**

PO Box 399
Garden City KS 67846

ATTN: Scott Corsair, Jason

Humburg #3X

25-19s-22w Ness,KS

Start Date: 2017.01.31 @ 16:00:47

End Date: 2017.01.31 @ 23:43:56

Job Ticket #: 64089 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2017.02.01 @ 09:49:57



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Mid-Continent Resources Inc
 PO Box 399
 Garden City KS 67846
 ATTN: Scott Corsair, Jason

25-19s-22w Ness, KS
Humburg #3X
 Job Ticket: 64089 **DST#: 1**
 Test Start: 2017.01.31 @ 16:00:47

GENERAL INFORMATION:

Formation: **Miss**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 18:27:42 Tester: Ray Schwager
 Time Test Ended: 23:43:56 Unit No: 77
 Interval: **4334.00 ft (KB) To 4401.00 ft (KB) (TVD)** Reference Elevations: 2281.00 ft (KB)
 Total Depth: 4401.00 ft (KB) (TVD) 2273.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

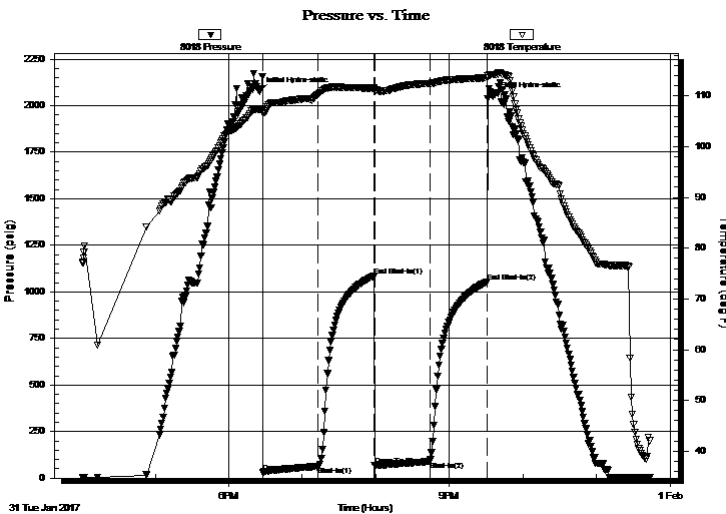
Serial #: 8018

Inside

Press@RunDepth: 90.85 psig @ 4340.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.01.31 End Date: 2017.01.31 Last Calib.: 2017.01.31
 Start Time: 16:00:47 End Time: 23:43:56 Time On Btm: 2017.01.31 @ 18:25:12
 Time Off Btm: 2017.01.31 @ 21:35:26

TEST COMMENT: 45-IFP-w k to a fr bl 1/2" to 5 1/2" bl
 45-ISIP-no bl
 45-FFP-w k to a fr bl 1/4" to 5 1/2" bl
 45-FSIP-no bl

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2074.53	107.29	Initial Hydro-static
3	30.59	106.69	Open To Flow (1)
48	64.10	110.26	Shut-In(1)
93	1085.79	111.53	End Shut-In(1)
94	67.59	111.20	Open To Flow (2)
139	90.85	112.44	Shut-In(2)
186	1053.12	113.58	End Shut-In(2)
191	2050.29	114.21	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	GMO 15%G40%M45%O	1.47
40.00	CO	0.56
0.00	145' GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mid-Continent Resources Inc

25-19s-22w Ness, KS

PO Box 399
Garden City KS 67846

Humburg #3X

Job Ticket: 64089

DST#: 1

ATTN: Scott Corsair, Jason

Test Start: 2017.01.31 @ 16:00:47

Tool Information

Drill Pipe:	Length: 4306.00 ft	Diameter: 3.80 inches	Volume: 60.40 bbl	Tool Weight: 2200.00 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: 75000.00 lb
			<u>Total Volume: 60.55 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	4334.00 ft			Final 66000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	67.00 ft			
Tool Length:	96.00 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			4306.00	
Shut In Tool	5.00			4311.00	
Hydraulic tool	5.00			4316.00	
Jars	5.00			4321.00	
Safety Joint	3.00			4324.00	
Packer	5.00			4329.00	29.00 Bottom Of Top Packer
Packer	5.00			4334.00	
Stubb	1.00			4335.00	
Perforations	5.00			4340.00	
Recorder	0.00	8018	Inside	4340.00	
Recorder	0.00	8700	Outside	4340.00	
Blank Spacing	33.00			4373.00	
Perforations	25.00			4398.00	
Bullnose	3.00			4401.00	67.00 Bottom Packers & Anchor

Total Tool Length: 96.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mid-Continent Resources Inc

25-19s-22w Ness,KS

PO Box 399
Garden City KS 67846

Humburg #3X

Job Ticket: 64089

DST#: 1

ATTN: Scott Corsair, Jason

Test Start: 2017.01.31 @ 16:00:47

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

38 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.96 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	GMO 15%G40%M45%O	1.466
40.00	CO	0.561
0.00	145' GIP	0.000

Total Length: 164.00 ft Total Volume: 2.027 bbl

Num Fluid Samples: 0

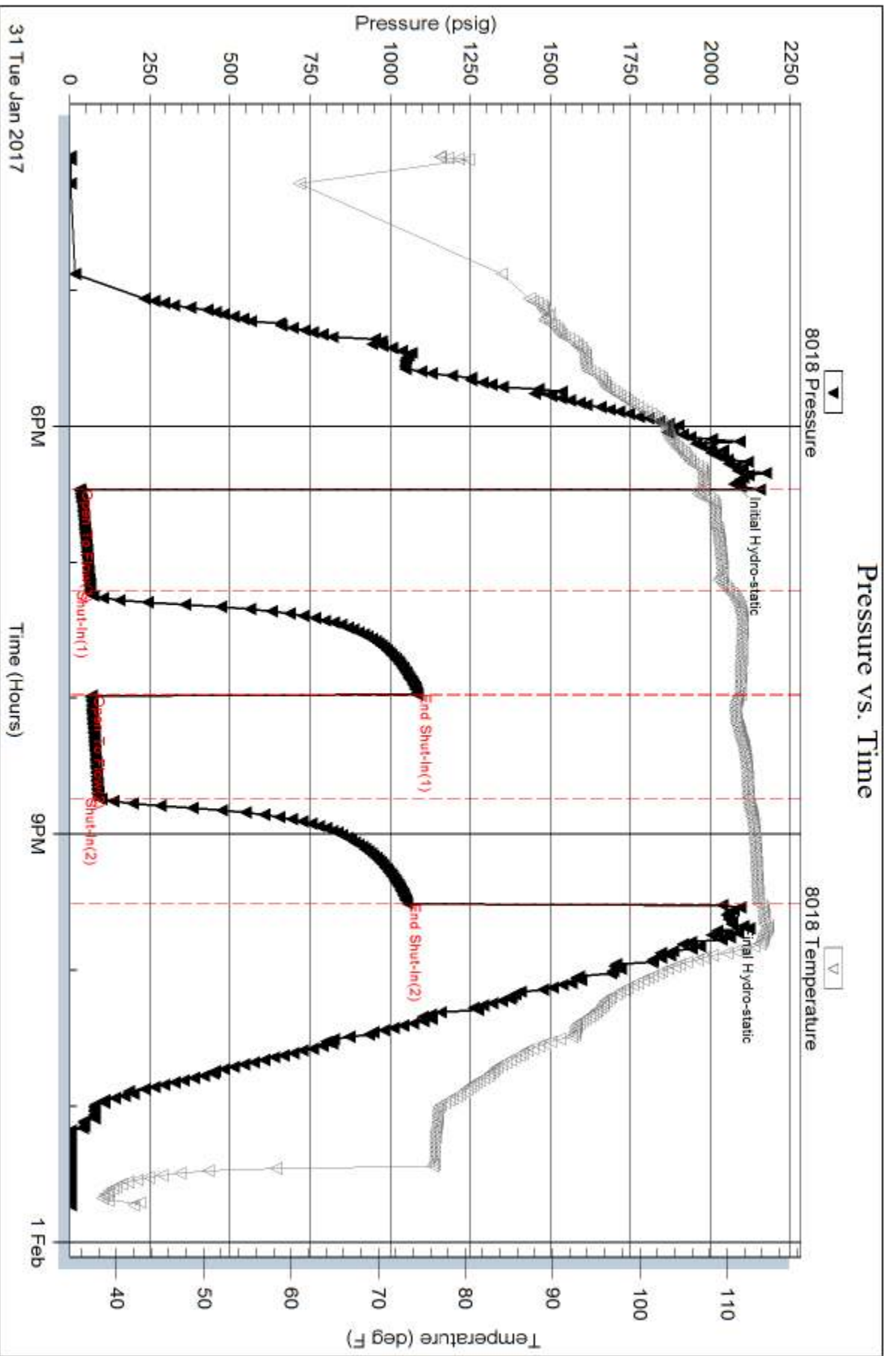
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

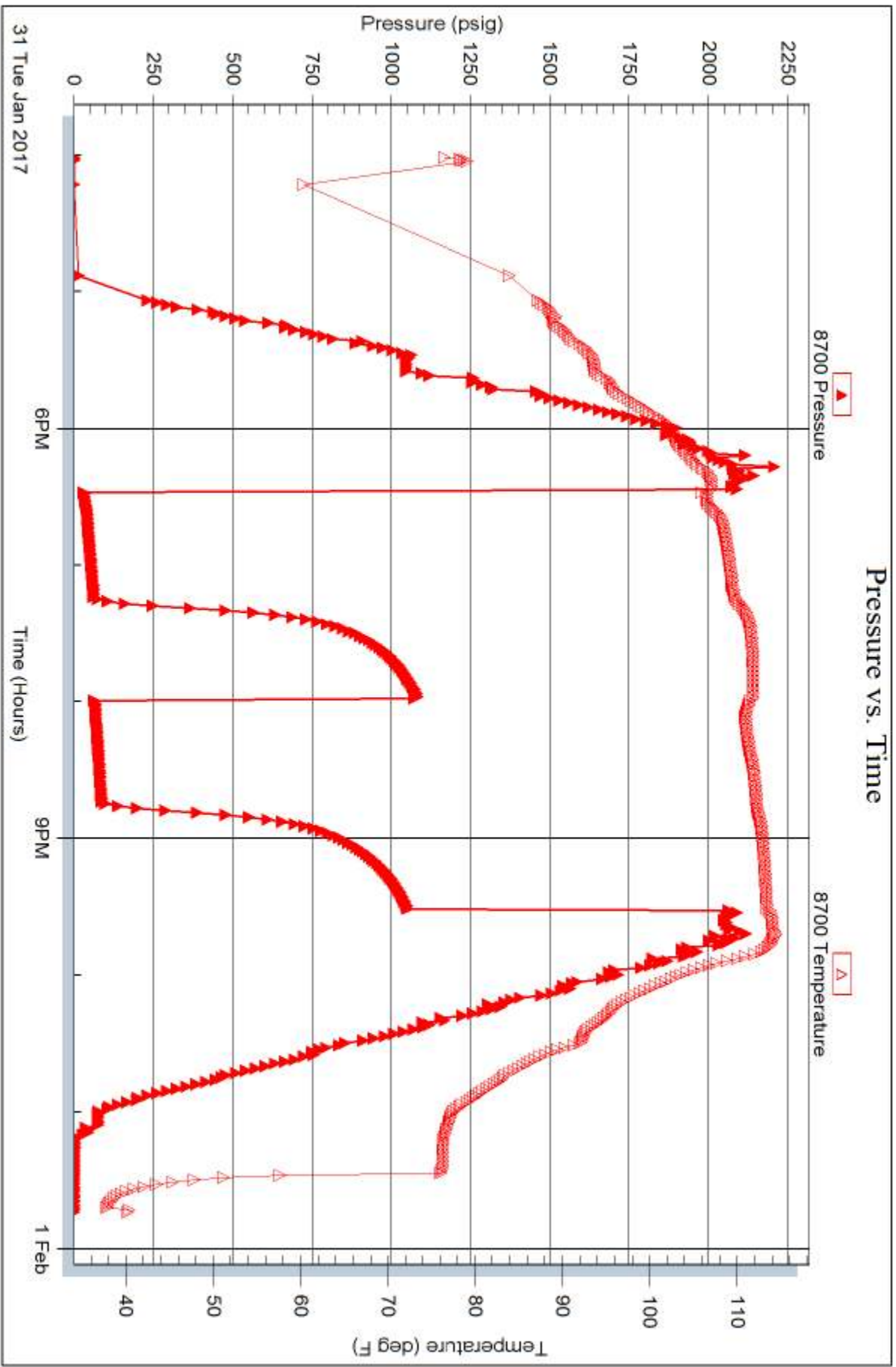


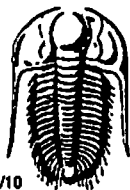
Serial #: 8700

Outside Mc-Continent Resources Inc

Humburg #3X

DST Test Number: 1





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 64089

Well Name & No. Humburg #3X Test No. 1 Date 1-31-2017
 Company Mid-Continent Resources Inc Elevation 2281 KB 2273 GL
 Address PO Box 399 Garden City, Ks 67846
 Co. Rep / Geo. Jason Alm Rig Discovery rig 3
 Location: Sec. 25 Twp. 19S Rge. 22W Co. Ness State Ks

Interval Tested 4334-4401 Zone Tested Miss
 Anchor Length 67 Drill Pipe Run 4306 Mud Wt. 9.1
 Top Packer Depth 4329 Drill Collars Run 30 Vis 53
 Bottom Packer Depth 4334 Wt. Pipe Run - WL 8
 Total Depth 4401 Chlorides 6800 ppm System LCM 1#
 Blow Description IFP - WEAK TO A FAIR BLOW 1/2" TO 5 1/2" BLOW
ISIP - NO BLOW
FFP - WEAK TO A FAIR BLOW 1/4" TO 5 1/2" BLOW
FSTIP - NO BLOW

Rec	Feet of	%gas	%oil	%water	%mud
<u>145</u>	<u>GTP</u>				
<u>40</u>	<u>CO</u>				
<u>124</u>	<u>GMO</u>	<u>15</u>	<u>45</u>		<u>40</u>

Rec Total 164 BHT 113 Gravity 38 API RW - @ - ° F Chlorides - ppm

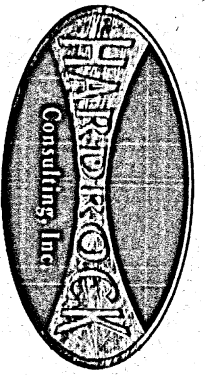
(A) Initial Hydrostatic 2074 Test 1150 T-On Location 1445
 (B) First Initial Flow 30 Jars 250 T-Started 1600
 (C) First Final Flow 64 Safety Joint 75 T-Open 1825
 (D) Initial Shut-In 1085 Circ Sub _____ T-Pulled 2125
 (E) Second Initial Flow 67 Hourly Standby _____ T-Out 2343
 (F) Second Final Flow 90 Mileage 116 RT 87 Comments _____
 (G) Final Shut-In 1053 Sampler _____
 (H) Final Hydrostatic 2050 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total 1562

Initial Open 45
 Initial Shut-In 45
 Final Flow 45
 Final Shut-In 45

Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Sub Total 0
 Total 1562
 MP/DST Disc't _____

Approved By _____ Our Representative Ray Schwager THANK YOU

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personal 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.



Geologic Report

Drilling Time and Sample Log

Operator Mid-Continent Resources, Inc.

Lease Humburg

API # 15-135-25933-0000

Field Schaben

Location 1700' FSL & 335' FEL

Sec. 25 Twp. 19s Rge. 21w

County Ness State Kansas

Formation Log Tops Sample Tops Struct Comp

Anhydrite 1487' +794 -3

Base 1520' +761

Heebner 3741' -1460 -5

Lansing 3787' -1506 -5

BKC 4096' -1815

Pawnee 4204' -1923 -4

Fort Scott 4284' -2003 -6

Cherokee 4305' -2024 -5

Mississippian 4375' -2094 -5

Total Depth 4406' -2125

Elevation 2281'
KB
DF
GL 2273'

Casing Record
Surface
8 5/8" @ 221'
Production
5 1/2" @ 4405'

Electrical Surveys
None

Reference Well For Structural Comparison Mid-Continent Resources, Inc. Humburg #3X
 2086' FSL & 554' FEL Sec. 25 T19s R21w Ness Co. Kansas

Drilling Contractor	Discovery Drilling Co. Inc.	Rig #
Commenced	1-25-2017	Completed
Samples Saved From	3900'	To RTT
Drilling Time Kept From	3700'	To RTT
Samples Examined From	3900'	To RTT
Geological Supervision From	3900'	To RTT

Displacement 3500' Mud Type Chemical

Summary and Recommendations

The location for the Humburg #3X was found via 3-D seismology. The new well ran structurally as expected via the survey. Oil Test was conducted which recovered commercial amounts of oil from the Mississippian Osage Formation. After all gathered data had been examined the decision was made to run 5 1/2 inch production casing to further evaluate the Humburg #3X well.

Respectfully,

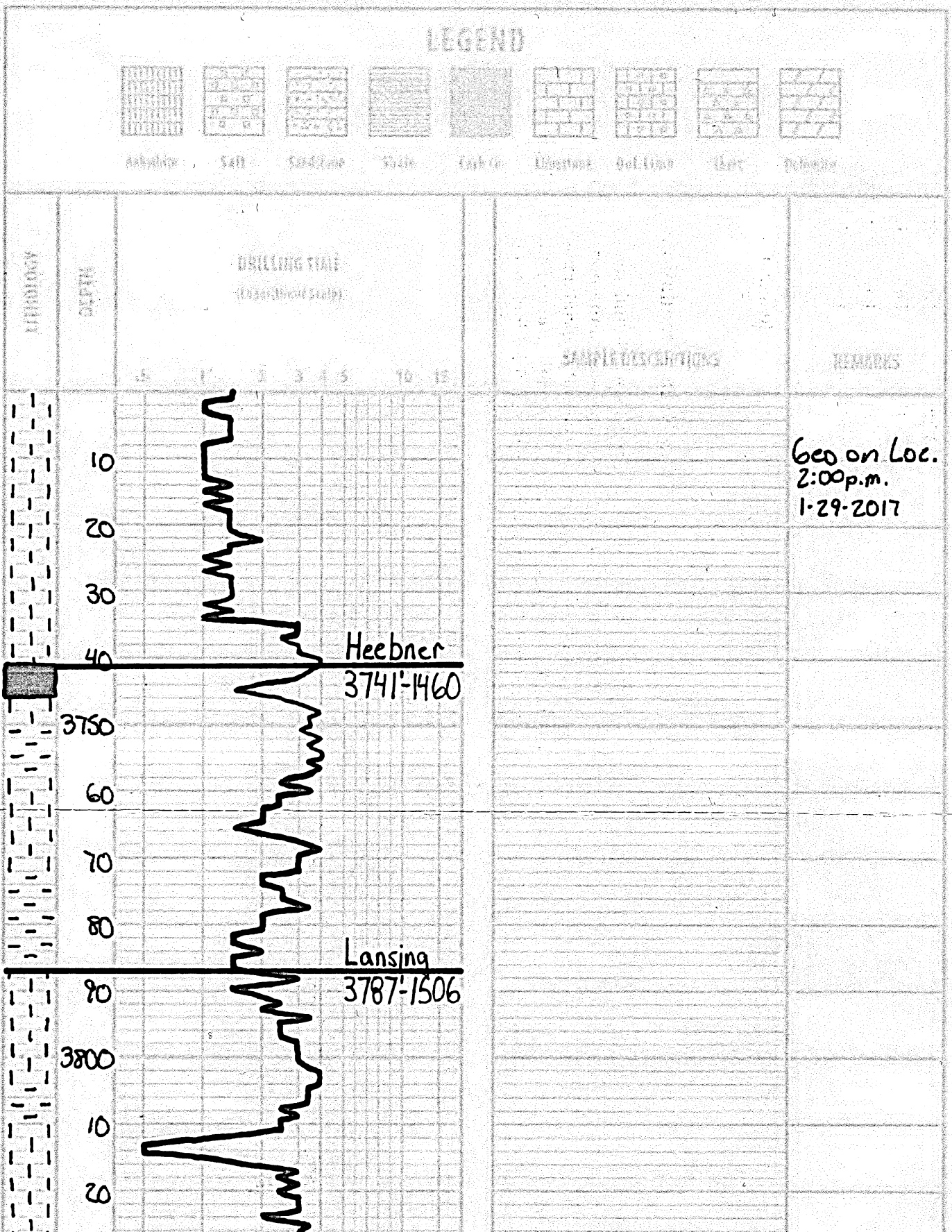
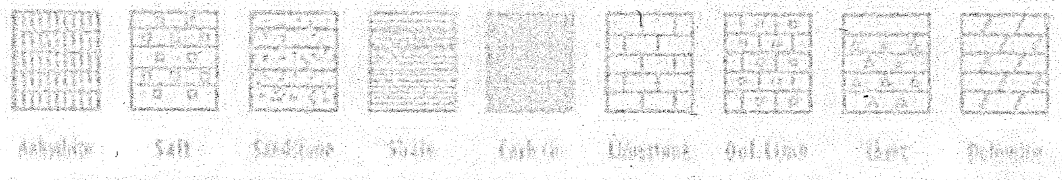
Jason T Alm
 Hard Rock Co.

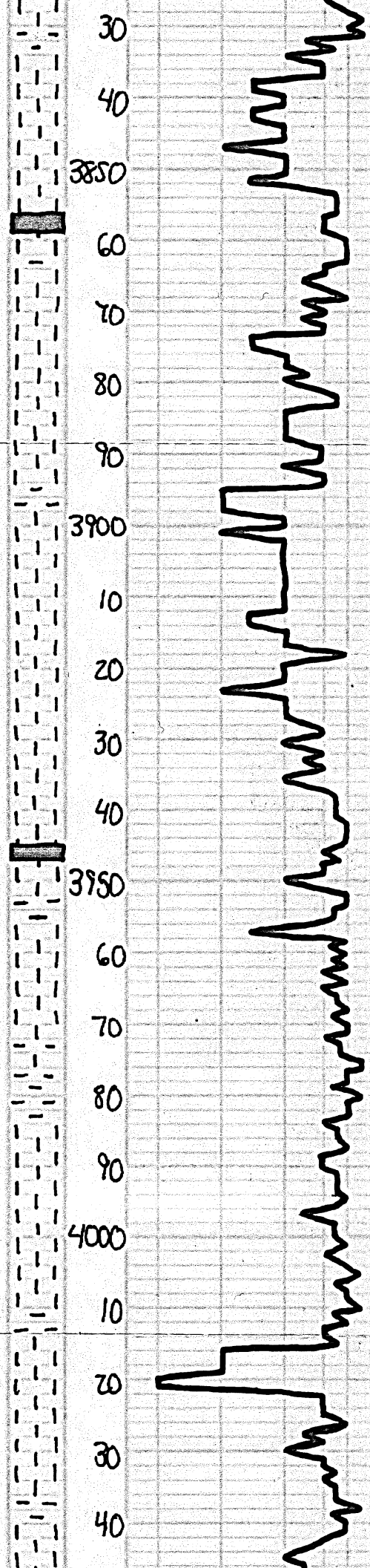
ismic survey.
ne Drill Stem
f oil from the
I been
n casing to

Submitted,

onsulting, Inc.

LEGEND





Ls. Tan. Offwh. Fn x/a, Col.
 w/ Poor Fair ooc. ϕ . Barren

Ls-ala

Ls. Tan. Offwh. Fn-Subx/a,
 DNS

Sh-Drk Gry-Blk

Sh-Gry-Brn

Ls. Tan, Fn-Subx/a, Sl. Col.
 w/ Poor ooc ϕ . Barren

Sh-Brn-Grn

Ls-Tan-Lt. Gry, Subx/a, DNS

Ls-ala

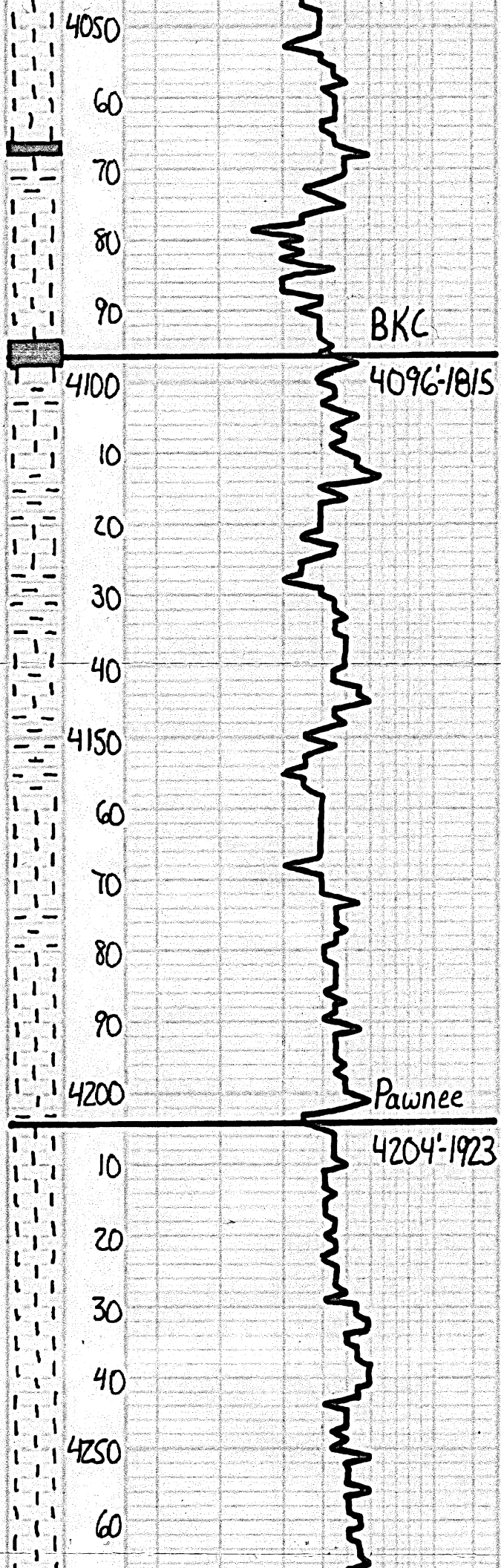
Sh-Brn

Ls-Tan-Lt. Gry, Fn x/a, Col.
 w/ Poor w/ Good ooc ϕ .
 Barren

Ls-ala, DNS

Sh-Gry-Brn

Ls-Tan-Lt. Gry, Fn-Subx/a,



Col. w/ Post- Fair oom ϕ ,
Barren

Ls - ala, Mostly DNS

Sh - Dk Gry - Blk

Ls - Tan-Lt. Gry, Fin xln w/ Poor
interxln ϕ , Barren

Ls - ala, Mostly DNS

Sh - Blk, Carb.

Ls - Tan-Lt. Gry, Subxln, DNS

Ls - ala

Sh - Brn - Grn - Gry

Sh - Brn - Grn

Ls, Tan-Lt. Gry, Subxln, DNS
Sh, Col. w/ Post sec oom ϕ ,
Barren

Sh - Brn

Ls - Tan-Lt. Gry, Subxln, DNS

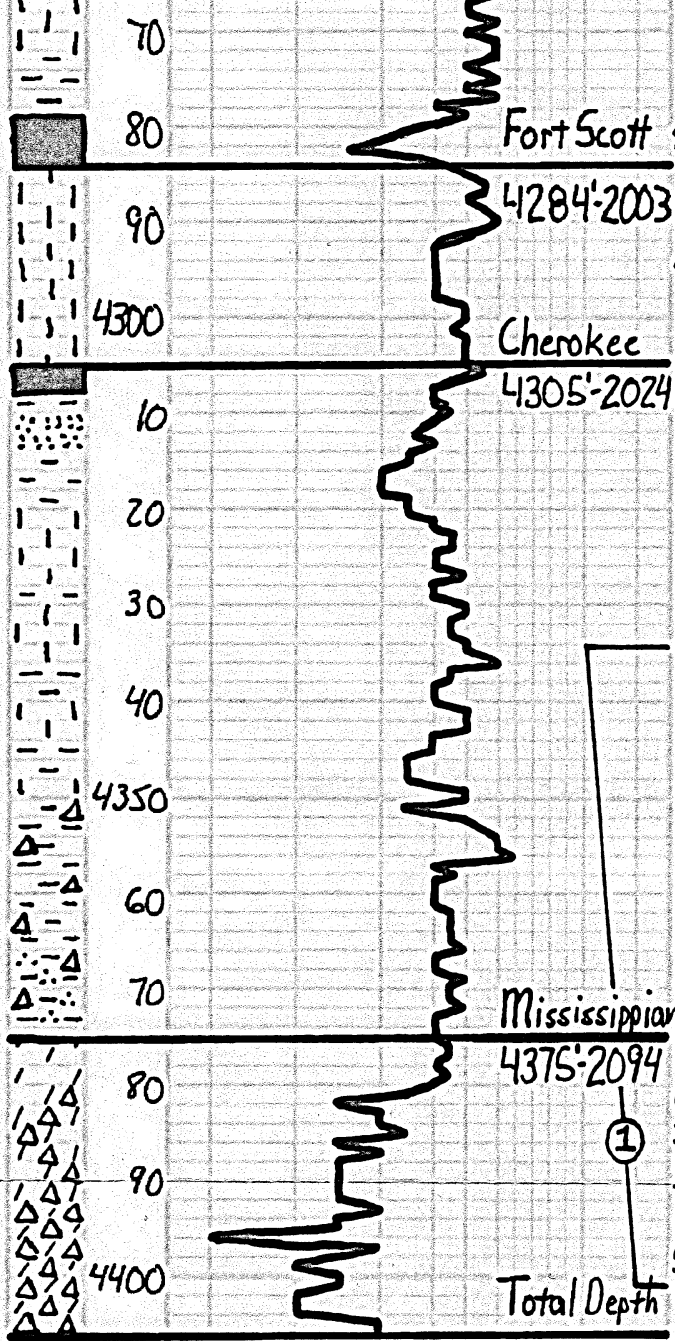
Sh - Gry - Grn

Ls - Lt. Gry, Subxln, DNS

Ls - ala

Ls, Gry - Dk Gry, Subxln,
DNS

Ls, ala, Increasing, Gry



LS - Dk Gry
LS - Offwh-Tan. Fr: Med x/n
46
LS - Fair Sub-Ang, Well
Broken, Fair Color, Good Vel. H.
Sh-Bk, Corb.
SS - Gtz, Fl - Fractured, Fair Gr.
Fair Spht. Sub-Ang, Fair - Well
Clean, W/ Poor Int. Sp. &
Batches, Few loose Gtz Gr.
LS - Tan-Lt. Gry. Subala, Sl.
Dol.; DWS
LS - a/a
Sh - Dk Gry - Brn
Sh - Brn Gry - Gry, Multicolored
Fresh Δ, Some Vel. Gummy Sh
Sh - A - a/a, Fr - V. Fr Gr Ss, Poor
Spht. Sub-Ang, Well Clean w/ Poor
Int. Sp. & Gtz - Fair, Tarry oil St.
W/ Fair Vel. Color, D. Dull Spht. Flwr.
Poor Cut, Some barren clusters
Dolo - Whit-Tan, Fr Suez x/n w/
Fract. Fract. in Part.
Δ - Whit, Sl. Tip w/ Poor Spht
V. Ss & Lt. Fair oil St. set, Fair
Sh w/ pt Free oil, Good Color,
Fair Vel Spht Floor.
Δ - Whit-Lt. Gry, Mostly Fresh, Sl.
Tip w/ Sect V. Ss & Dolo - Tan, Suez
w/ Fair Int. Sp. & Lt. Fair oil St.
set in p, Fair Spht, Good Color,
Fair Vel Spht Floor.

DST#1	
Mississippian	
4334'-4401'	
46°45'45"45"	
IH	2075#
IF	30-64# Built to 5 1/2
ISI	1086# Dead
FF	67-91# Built to 5 1/2
FSI	1053# Dead
FH	2050#
BHT	114°F
Recovery:	
145' GIP	
40' Clean Oil	
124' GMP	
45% Oil	

Respectfully,
Jason T. Al
2-1-2017

Geological Report

Mid-Continent Resources, Inc.

Humburg #3X

1700' FSL & 335' FEL

Sec. 25 T19s R21w

Ness County, Kansas



Mid-Continent Resources, Inc.

General Data

Well Data: American Warrior, Inc.
Humburg #3X
1700' FSL & 335' FEL
Sec. 25 T19s R21w
Ness County, Kansas
API # 15-135-25933-0000

Drilling Contractor: Discovery Drilling Rig #3

Geologist: Jason T Alm

Spud Date: January 25, 2017

Completion Date: February 1, 2017

Elevation: 2273' Ground Level
2281' Kelly Bushing

Directions: Bazine KS, Intersection of Hwy 96 and Austin St,
5 ½ mi south, West into location.

Casing: 221' 8 5/8" surface casing
4405' 5 1/2" production casing

Samples: 10' wet and dry, 3900' to RTD

Drilling Time: 3700' to RTD

Electric Logs: None

Drillstem Tests: One, Trilobite Testing, Inc. "Ray Schwager"

Problems: None

Remarks: None

Formation Tops

	Mid-Continent Res. Inc. Humburg #3X Sec. 25 T19s R21w 1700' FSL & 335' FEL
Formation	
Anhydrite	1487' +794
Base	1520' +761
Heebner	3741' -1460
Lansing	3787' -1506
BKC	4096' -1815
Pawnee	4204' -1923
Fort Scott	4284' -2003
Cherokee	4305' -2024
Mississippian	4375' -2094
RTD	4406' -2125

Sample Zone Descriptions

Mississippian Osage (4386', -2135): **Covered in DST #1**

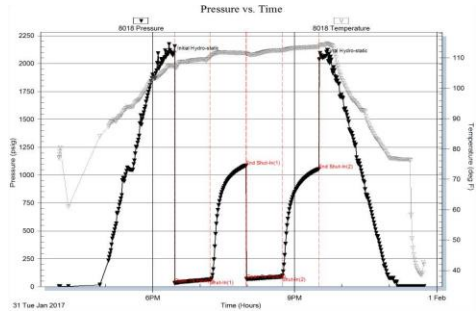
Δ – White to light gray, mostly fresh, slightly triptolic with scattered vuggy porosity, dolomite, tan, sucrosic crystalline with fair inter-crystalline porosity, light to fair oil stain and saturation, fair show of free oil, good odor, fair yellow spotted fluorescents, 35-70 units hotwire.

Drill Stem Tests
Trilobite Testing, Inc.
"Ray Schwager"

DST #1 Mississippian Osage

Interval (4334' – 4401') Anchor Length 67'

IHP	– 2075 #	
IFP	– 45" – Built to 5 ½ in.	30-64 #
ISI	– 45" – Dead	1086 #
FFP	– 45" – Built to 5 ½ in.	67-91 #
FSI	– 45" – Dead	1053 #
FHP	– 2050 #	
BHT	– 119°F	



Recovery: 145' GIP
 40' GCO
 124' GMO 45% Oil

Structural Comparison

	Mid-Continent Res. Inc. Humburg #3X Sec. 25 T19s R21w 1700' FSL & 335' FEL	Mid-Continent Res. Inc. Humburg #1X Sec. 25 T19s R21w 2086' FSL & 554' FEL		Cities Service Humburg A #1 Sec. 25 T19s R21w C NE SE	
Formation					
Anhydrite	1487' +794	1482' +797	(-3)	1478' +795	(-1)
Base	1520' +761	NA	NA	NA	NA
Heebner	3741' -1460	3734' -1455	(-5)	3731' -1458	(-2)
Lansing	3787' -1506	3780' -1501	(-5)	3780' -1507	(+1)
BKC	4096' -1815	NA	NA	NA	NA
Pawnee	4204' -1923	4198' -1919	(-4)	4197' -1924	(+1)
Fort Scott	4284' -2003	4276' -1997	(-6)	4277' -2004	(+1)
Cherokee	4305' -2024	4298' -2019	(-5)	4296' -2023	(-1)
Mississippian	4375' -2094	4368' -2089	(-5)	4366' -2093	(-1)

Summary

The location for the Humburg #3X was found via 3-D seismic survey. The new well ran structurally as expected via the survey. One Drill Stem Test was conducted which recovered commercial amounts of oil from the Mississippian Osage Formation. After all gathered data had been examined the decision was made to run 5 ½ inch production casing to further evaluate the Humburg #3X well.

Recommended Perforations

Primary:

Mississippian Osage (4381' – 4401') DST #1

Before Abandonment:

Fort Scott (4290' – 4296') Not Tested

Respectfully Submitted,

Jason T Alm
Hard Rock Consulting, Inc.