



1153757

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> _____
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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> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Mai Oil Operations, Inc.
Well Name	Little 3
Doc ID	1153757

Tops

Name	Top	Datum
Anhydrite	1307	+776
Heebner	3407	-1324
Toronto	3424	-1341
Lansing	3450	-1367
Base Kansas City	3719	-1636
Marmaton	3755	-1672
Conglomerate Sand	3816	-1733
Arbuckle	3832	-1749

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Mark Sievers, Chairman
Thomas E. Wright, Commissioner
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

July 31, 2013

Allen Bangert
Mai Oil Operations, Inc.
8411 PRESTON RD STE 800
DALLAS, TX 75225-5520

Re: ACO1
API 15-165-22032-00-00
Littler 3
SW/4 Sec.31-16S-19W
Rush County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
Allen Bangert

JAMES C. MUSGROVE

Petroleum Geologist
212 Main Street
P.O. Box 215
Claflin, KS 67525

Office (620) 588-4250

Res. Claflin (620) 587-3444

Mail Oil Operations
Littler #3
NW-NW-SE-SW (1100' FSL & 1535' FWL)
Section 31-16s-19w
Rush County, Kansas
Page 1

5 1/2" Production Casing Set

Contractor: Southwind Drilling Co. (Rig #3)
Commenced: June 18, 2013
Completed: June 24, 2013
Elevation: 2083' K.B; 2081' D.F; 2075' G.L.
Casing program: Surface; 8 5/8" @ 1074'
Production; 5 1/2" @ 3899'
Sample: Samples saved and examined 3100' to the Rotary Total Depth.
Drilling time: One (1) foot drilling time recorded and kept 3100 ft. to the Rotary Total Depth.
Measurements: All depths measured from the Kelly Bushing.
Drill Stem Tests: There were two (2) Drill Stem Tests ran by Trilobite Testing Co.
Electric Log: By Nabors Completion and Production Services Co; Dual Induction, Compensated Density/Neutron Log and Micro & Sonic Log.

<u>Formation</u>	<u>Log Depth</u>	<u>Sub-Sea Datum</u>
Anhydrite	1307	+776
Base Anhydrite	1341	+742
Heebner	3407	-1324
Toronto	3424	-1341
Lansing	3450	-1367
Base Kansas City	3719	-1636
Marmaton	3755	-1672
Conglomerate Sand	3816	-1733
Arbuckle	3832	-1749
Rotary Total Depth	3900	-1817
Log Total Depth	3900	-1817

(All tops and zones corrected to Electric Log measurements).

SAMPLE ANALYSIS, SHOWS OF OIL, TESTING DATA, ETC.

TORONTO SECTION

3824-3835' Limestone; tan, finely crystalline, few sucrosic, dolomitic in part, slightly fossiliferous, no shows.

LANSING SECTION

- 3450-3460' Limestone; tan, gray, finely crystalline, fossiliferous, few chalky, increasingly cherty (dense).
- 3477-3484' Limestone; tan, oomoldic, fair oomoldic porosity, poor stain, show of free oil and faint odor.

Drill Stem Test #1 3470-3488'

Times: 30-30-30-30

Blow: Weak

Recovery: 10' mud, show of oil

Pressures: ISIP 931 psi
FSIP 901 psi
IFP 11-17 psi
FFP 17-19 psi
HSH 1647-1606 psi

- 3494-3501' Limestone; cream, white, oomoldic, few oolitic, fair to good oomoldic porosity (barren).
- 3525-3540' Limestone; gray, white, tan, highly oolitic, chalky, (dense).
- 3550-3565' Limestone; gray, white, oomoldic, good oomoldic porosity (barren).
- 3596-3603' Limestone; white, cream, finely crystalline, oolitic, chalky in part, no shows.
- 3630-3633' Limestone; tan, gray, fossiliferous in part, poor visible porosity.
- 3652-3660' Limestone; gray, tan, finely oolitic, oomoldic, fair porosity, no shows.
- 3671-3690' Limestone; gray, white, finely crystalline, few fossiliferous, no shows.
- 3700-3714' Limestone; tan, oolitic, few sub oomoldic, dense.

MARMATON SECTION

- 3756-3770' Chert; orange, yellow, peach, white, boney/opaque, no shows.
- 3770-3804' Chert; as above, plus granular, chalky limestone, cherty, few chalky.

CONGLOMERATE SECTION

- 3816-3820' Sand; white, gray, yellow, very fine grained, calcareous, shaley, poor porosity.



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Mai Oil Operations Inc
 8411 Preston Rd Ste 800
 Dallas TX 75225-5520
 ATTN: Kurt Mai

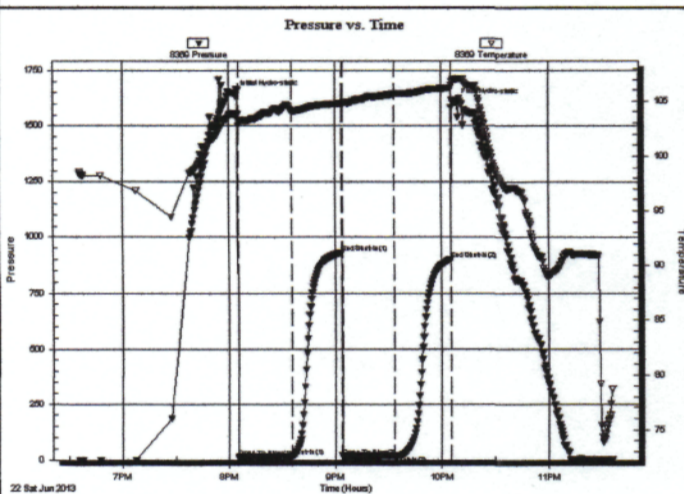
31-16s-19w Rush,KS
Littler #3
 Job Ticket: 52095 **DST#: 1**
 Test Start: 2013.06.22 @ 18:35:41

GENERAL INFORMATION:

Formation: **LKC**
 Deviated: **No Whipstock:** ft (KB)
 Time Tool Opened: 20:05:06
 Time Test Ended: 23:36:05
 Test Type: **Conventional Bottom Hole (Initial)**
 Tester: **Ray Schwager**
 Unit No: **42**
 Interval: **3470.00 ft (KB) To 3488.00 ft (KB) (TVD)**
 Total Depth: **3488.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Poor**
 Reference Elevations: **2083.00 ft (KB)**
2075.00 ft (CF)
 KB to GR/CF: **8.00 ft**

Serial #: 8369 **Inside**
 Press@RunDepth: **19.51 psig @ 3471.00 ft (KB)** Capacity: **8000.00 psig**
 Start Date: **2013.06.22** End Date: **2013.06.22** Last Calib.: **2013.06.22**
 Start Time: **18:35:41** End Time: **23:36:05** Time On Btm: **2013.06.22 @ 20:02:51**
 Time Off Btm: **2013.06.22 @ 22:07:36**

TEST COMMENT: 30-IFP-w k surface bl died in 20 min
 30-ISIP-no bl
 30-FFP-no bl
 30-FSIP-no bl



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1647.37	103.84	Initial Hydro-static
3	11.04	102.75	Open To Flow (1)
33	17.29	104.09	Shut-in(1)
61	931.59	104.79	End Shut-in(1)
61	17.48	104.57	Open To Flow (2)
91	19.51	105.65	Shut-in(2)
122	901.57	106.20	End Shut-in(2)
125	1606.12	106.99	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud w/show of oil	0.14

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Mai Oil Operations Inc
 8411 Preston Rd Ste 800
 Dallas TX 75225-5520
 ATTN: Kurt Mai

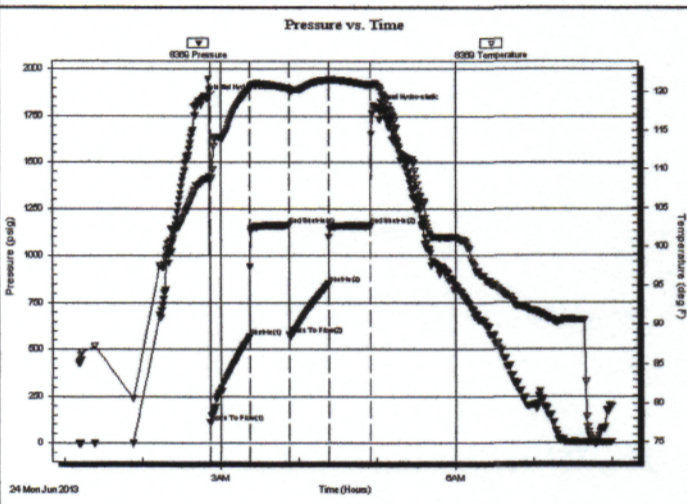
31-16s-19w Rush,KS
Littler #3
 Job Ticket: 52096 **DST#: 2**
 Test Start: 2013.06.24 @ 01:10:58

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: **No Whipstock:** ft (KB)
 Time Tool Opened: 02:51:38
 Time Test Ended: 07:59:52
 Interval: **3763.00 ft (KB) To 3833.00 ft (KB) (TVD)**
 Total Depth: 3833.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Ray Schwager
 Unit No: 42
 Reference Elevations: 2083.00 ft (KB)
 2075.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8369 **Inside**
 Press@RunDepth: 848.54 psig @ 3767.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.06.24 End Date: 2013.06.24 Last Calib.: 2013.06.24
 Start Time: 01:10:58 End Time: 07:59:52 Time On Btm: 2013.06.24 @ 02:49:23
 Time Off Btm: 2013.06.24 @ 04:58:53

TEST COMMENT: 30-IFP-strg bl in 1 min
 30-ISIP-no bl
 30-FFP-strg bl in 2 min
 30-FSIP-no bl



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1844.04	108.69	Initial Hydro-static
3	110.65	108.31	Open To Flow (1)
33	567.24	120.26	Shut-in(1)
64	1161.98	120.33	End Shut-in(1)
64	576.26	120.03	Open To Flow (2)
94	848.54	121.41	Shut-in(2)
126	1160.95	120.76	End Shut-in(2)
130	1794.23	120.89	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
340.00	O&GCMW 5%G10%O40%M45%W	4.77
310.00	O&GCMW 5%G20%O10%M65%W	4.35
610.00	HO&GCW 5%G35%O60%W	8.56
610.00	Water	8.56

* Recovery from multiple tests

Gas Rates

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



CHARGE TO: MAL OIL
 ADDRESS:
 CITY, STATE, ZIP CODE:

TICKET
 N° 25007

PAGE 1 OF

SERVICE LOCATIONS: 1. NESS CITY, KS. WELL/PROJECT NO.: LEASE: LITTLER #3 COUNTY/PARISH: RUSH STATE: KS CITY: MCCracken, KS DATE: 19 JUN 13 OWNER:
 2. TICKET TYPE: SERVICE SALES CONTRACTOR: SOUTHWIND #3 RIG NAME/NO.: SHIPPED VIA: DELIVERED TO: ORDER NO.:
 3. WELL TYPE: OIL WELL CATEGORY: DEVELOPMENT JOB PURPOSE: CEMENT 8 5/8 WELL PERMIT NO.: WELL LOCATION: N TO JET, SE 25 1/4 E, N 1/4
 4. REFERRAL LOCATION: INVOICE INSTRUCTIONS:

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575					MILEAGE #115	30		mi		6.00	180.00
576D					Pump CHARGE	1				1500.00	1500.00
410					TOP PLUG	1		EA		140.00	140.00
276					FLDCELE	100		lbs		2.00	200.00
290					D-AIR	4		gal		42.00	168.00
325					SMD CEMENT	375		bx		17.00	6375.00
581					CEMENT SERVICE CHARGE	375		bx		2.00	750.00
583					DRAYAGE	37310		lbs	559.65 TM	1.00	559.65

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

X *Joy Hui*
 DATE SIGNED: 19 JUN 13 TIME SIGNED: 0900 A.M. P.M.

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

SURVEY	AGREE	UN-DECIDED	DIS-AGREE	PAGE TOTAL
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN? WE UNDERSTOOD AND MET YOUR NEEDS? OUR SERVICE WAS PERFORMED WITHOUT DELAY?				9872.65
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY? ARE YOU SATISFIED WITH OUR SERVICE? <input type="checkbox"/> YES <input type="checkbox"/> NO				TAX
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND				TOTAL

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

SWIFT OPERATOR: *Gene Kahlhoff* APPROVAL:

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 7/9/13 PAGE NO.

CUSTOMER MAIDIL WELL NO. LEASE LITTLER # 3 JOB TYPE CEMENT 8 3/8 TICKET NO. 25007

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0520							ON LOCATION
								RIDE 1074 8 3/8 - 23 #
	0704				✓			CIRCULATE.
	0716	6	20		✓		200	Pump 20 Bbl KCL FLUSH
	0720	5 1/2			✓			MIX 375 sx SMD w/ 1/4" FLUXE
			46		✓			100 sx @ 11.8 pp6.
			57		✓			150 sx @ 12.5 pp6.
			23		✓			75 sx @ 13.5 pp6.
			13		✓			50 sx @ 14.5 pp6.
	0756	6			✓			DROP PLUG START DISPLACING
	0810	Ø	68		✓		400	PLUG DOWN - SHUT WELL IN. CIRCULATE CEMENT TO SURFACE
	0811							WASH TRUCK
	0900							JOB COMPLETE THANKS B115 JASON JEFF GIDION



CHARGE TO: Mis Operations
 ADDRESS:
 CITY, STATE, ZIP CODE:

TICKET
 N° 24294

PAGE 1 OF 2

1. SERVICE LOCATIONS <u>Hays Ks.</u>	WELL/PROJECT NO. <u>#3</u>	LEASE <u>Little</u>	COUNTY/PARISH <u>Rush</u>	STATE <u>Ks</u>	CITY	DATE <u>6-24-13</u>	OWNER <u>same</u>
2. <u>Ness City, Ks</u>	TICKET TYPE <input type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR <u>Southwind Drilling #3</u>	RIG NAME/NO.	SHIPPED VIA <u>location</u>	DELIVERED TO	ORDER NO.	
3.	WELL TYPE <u>oil</u>	WELL CATEGORY <u>Development</u>	JOB PURPOSE <u>Logstring</u>	WELL PERMIT NO.	WELL LOCATION		
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575		1			MILEAGE #110	30	mi			6 ⁰⁰	180 ⁰⁰
578		1			Pump Charge (Logstring)	1	ea	3700'		1500 ⁰⁰	1500 ⁰⁰
281		1			Mud Flush	1000	gal			125 ⁰⁰	1250 ⁰⁰
290		1			D-Air	2	gal			42 ⁰⁰	84 ⁰⁰
406		1			LD Plug & Baffle	1	ea	5 1/2"		275 ⁰⁰	275 ⁰⁰
407		1			Insert Float Shoe w/ fill	1	ea			375 ⁰⁰	375 ⁰⁰
409		1			Turbolizer	9	ea			90 ⁰⁰	810 ⁰⁰
326		2			6% Permox 2% gel	160	sk			11 ⁰⁰	1760 ⁰⁰
283		2			salt	800	lb	10%		20 ⁰⁰	1600 ⁰⁰
276		2			Fluocel	50	lb	1/4 P/A		2 ⁰⁰	100 ⁰⁰
581		2			Cement Service Charge	160	sk			2 ⁰⁰	320 ⁰⁰
583		2			Drayage	210	mi			1 ⁰⁰	210 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

X
 DATE SIGNED 6-25-13 TIME SIGNED 0620 A.M. P.M.

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

SURVEY	AGREE	UN-DECIDED	DIS-AGREE	PAGE TOTAL	<u>7624⁰⁰</u>
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?				TAX	
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES <input type="checkbox"/> NO			TOTAL	
<input type="checkbox"/> 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.

SWIFT OPERATOR [Signature] APPROVAL [Signature]

Thank You!

