

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

ORIGINAL

Form ACO-1
October 2008
Form Must Be Typed

Handwritten initials and date: K, 6/22/09

WELL COMPLETION FORM

WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 5259
Name: Mai Oil Operations, Inc.
Address 1: P.O. Box 33
Address 2: _____
City: Russell State: Ks. Zip: 67665 + _____
Contact Person: Allen Bangert
Phone: (785) 483-2169
CONTRACTOR: License # 33350
Name: Southwind Drilling, Inc.
Wellsite Geologist: Kitt Noah
Purchaser: NCRA
Designate Type of Completion:
 New Well _____ Re-Entry _____ Workover _____
_____ Oil _____ SWD _____ SLOW
_____ Gas ENHR _____ SIGW
_____ CM (Coal Bed Methane) _____ Temp. Abd.
_____ 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. _____ Conv. to SWD
_____ Plug Back: _____ Plug Back Total Depth
_____ Commingled _____ Docket No.: _____
_____ Dual Completion _____ Docket No.: _____
 Other (SWD or Enhr.?) _____ Docket No.: E-30430
4-13-2009 4-19-2009 4-19-2009
Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No. 15 - 15-167-23567-0000
Spot Description: 210' North & 110' West
SE NW NE NE Sec. 11 Twp. 13 S. R. 14 East West
450 Feet from North / South Line of Section
770 Feet from East / West Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: Russell
Lease Name: Rein Unit Well #: 2
Field Name: Wildcat
Producing Formation: N/A
Elevation: Ground: 1787' Kelly Bushing: 1795'
Total Depth: 3325' Plug Back Total Depth: 3310'
Amount of Surface Pipe Set and Cemented at: 454 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/ ATI - Dg - 6/22/09 ^{5x cmf}

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)
Chloride content: 40000 ppm Fluid volume: 300 bbls
Dewatering method used: Let Dry
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 form shall be filed with the Kansas Corporation Commission, 130 S. 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 of 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: Allen Bangert
Title: Prod. Supt. Date: 5-20-2009
Subscribed and sworn to before me this 20 day of May,
2009.
Notary Public: Lori Crathorne
Date Commission Expires: 7-7-2010

KCC Office Use ONLY *AKI: AI*
 Letter of Confidentiality Received *stuf by 7/1*
If Denied, Yes Date: _____
 Wireline Log Received
 Geologist Report Received
 UIC Distribution
RECEIVED

NOTARY PUBLIC - State of Kansas
LORI CRATHORNE
My Appt. Expires 7-7-2010

MAY 22 2009
KCC WICHITA

Operator Name: Mai Oil Operations, Inc. Lease Name: Rein Unit Well #: 2
 Sec. 11 Twp. 13 S. R. 14 East West County: Russell

INSTRUCTIONS: Show important tops and base 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. Attach copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Submit Copy)</i> List All E. Logs Run: CDNL, Micro, DIL	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:70%;">Name</td> <td style="width:15%;">Top</td> <td style="width:15%;">Datum</td> </tr> <tr> <td>Anhydrite</td> <td>813'</td> <td>+982</td> </tr> <tr> <td>Topeka</td> <td>2682'</td> <td>-887</td> </tr> <tr> <td>Heebner</td> <td>2906'</td> <td>-1111</td> </tr> <tr> <td>Toronto</td> <td>2924'</td> <td>-1129</td> </tr> <tr> <td>Lansing</td> <td>2962'</td> <td>-1167</td> </tr> <tr> <td>Base Kansas City</td> <td>3226'</td> <td>-1431</td> </tr> <tr> <td>Arbuckle</td> <td>3270'</td> <td>-1468</td> </tr> </table>	Name	Top	Datum	Anhydrite	813'	+982	Topeka	2682'	-887	Heebner	2906'	-1111	Toronto	2924'	-1129	Lansing	2962'	-1167	Base Kansas City	3226'	-1431	Arbuckle	3270'	-1468
Name	Top	Datum																							
Anhydrite	813'	+982																							
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Lansing	2962'	-1167																							
Base Kansas City	3226'	-1431																							
Arbuckle	3270'	-1468																							

CASING RECORD <input checked="" 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
Surface	12 1/4"	8 5/8"	20#	454'	60-40 POZ	225	2% Gel, 3% CC
Production	7 7/8"	5 1/2"	14	3323'	60-40 POZ	175	

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				

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
3	2683-88', 2860-64', 2880-84', 2964-72'	8500 Gal. 20% HCL	
	2986-90', 3038-42', 3131-36', 3150-54'		

TUBING RECORD: Size: <u>2 3/8" Seal-tite Lined</u> Set At: <u>2672'</u> Packer At: <u>2674'</u>		Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Enhr. Date of Temporary Injection Authority	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)	
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf
	Water Bbls.	Gas-Oil Ratio
		Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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ALLIED CEMENTING CO., LLC. 037509

TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT
Russell

DATE <u>4-19-09</u>	SEC <u>11</u>	TWP <u>13</u>	RANGE <u>14</u>	CALLED OUT	ON-LOCATION	JOB START <u>10:00pm</u>	JOB FINISH <u>11:00pm</u>
LEASE <u>Reinforce</u>		WELL # <u>2</u>		LOCATION <u>Gluten Plant 21 1/2 B</u>		COUNTY <u>Russell</u>	STATE <u>KS</u>
OLD OR NEW (Circle one) <u>NEW</u>				<u>into</u>			

CONTRACTOR Southwind #3
 TYPE OF JOB Production String
 HOLE SIZE 7 7/8 TD 3325
 CASING SIZE 5 1/2 DEPTH 1995.33
 TUBING SIZE 5 1/2 IS SO DEPTH 1327.57
 DRILL PIPE DEPTH 3323.90
 TOOL JOINT DEPTH _____
 PRES. MAX _____ MINIMUM _____
 MEAS. LINE _____ SHOE JOINT 30.90
 CEMENT LEFT IN CSG 30.90
 PERFS _____
 DISPLACEMENT 79 1/2

OWNER _____
 CEMENT AMOUNT ORDERED 175 60/40 2% gel
1000 gal WFR-2 10% Salt
44# FLO
 COMMON 105 @ 13.50 1417.50
 POZMIX 70 @ 2.55 178.50
 GEL 3 @ 20.25 60.75
 CHLORIDE _____ @ _____
 ASC _____ @ _____
Salt 7 @ 21.25 148.75
Flo Seal 7 @ 2.95 20.65
WFR-2 1000 @ N=C N=C
 HANDLING 175 @ 2.25 393.75
 MILEAGE 110/54/mile 300.00
 TOTAL 2866.4

EQUIPMENT

PUMP TRUCK CEMENTER Craig/John
 # 417 HELPER Matt
 BULK TRUCK _____
 # 410 DRIVER C-H
 BULK TRUCK _____
 # _____ DRIVER _____

REMARKS:

5 1/2 IS SOFT = 1327.57 = 3086.84
14# = 1995.33 = 4868.84
Insert set @ 3293' 79 1/2
Bar hole 30510
Plug land @ 1500psi
Thanks. Released DRY

SERVICE _____
 DEPTH OF JOB _____
 PUMP TRUCK CHARGE _____ 1957.00
 EXTRA FOOTAGE @ _____
 MILEAGE 2 @ 7.00 14.00
 MANIFOLD @ _____
 RECEIVED _____
 MAY 22 2009
 KCC WICHITA
 TOTAL 1971.00

CHARGE TO: Ma:Oil
 STREET _____
 CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

1 5 1/2 AFU Float shoe (Blue) 186.00
1 Catch down Assembly @ 401.00
14 Turbolizers @ 77.00 847.00

To Allied Cementing Co., LLC:
 You are hereby requested to rent cementing equipment

ALLIED CEMENTING CO., LLC. 037506

TO: P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:

Russell

DATE <u>4-13-09</u>	SEC <u>11</u>	TWP <u>13</u>	RANGE <u>14</u>	CALLED OUT	ON LOCATION	JOB START <u>9:30pm</u>	JOB FINISH <u>10:00pm</u>
LEASE <u>Reinforced Well # 2</u>		LOCATION <u>Gluten Plant + 2 to Curve</u>		COUNTY <u>Russell</u>	STATE <u>KS</u>		
OLD OR NEW (Circle one) <u>NEW</u>		SIZE <u>1/8 E into</u>					

CONTRACTOR Southwind Drilling #3

TYPE OF JOB Surface Job

HOLE SIZE 12 1/4 ID 456

CASING SIZE 8 5/8 20# DEPTH 454

TUBING SIZE _____ DEPTH _____

DRILL PIPE 4 1/2 X 11 DEPTH _____

TOOL JOINT _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG 15'

PERFS _____

DISPLACEMENT 28 1/2 BBL

OWNER _____

CEMENT AMOUNT ORDERED 225 6940 290 606

390.00

COMMON	<u>135</u>	@	<u>13.50</u>	<u>1822.50</u>
POZMIX	<u>90</u>	@	<u>7.55</u>	<u>679.50</u>
GEL	<u>4</u>	@	<u>20.25</u>	<u>81.00</u>
CHLORIDE	<u>7</u>	@	<u>51.50</u>	<u>360.50</u>
ASC		@		
HANDLING	<u>225</u>	@	<u>2.25</u>	<u>506.25</u>
MILEAGE	<u>110 1/2 mile</u>			<u>300.00</u>
TOTAL				<u>3749.75</u>

REMARKS:

Surface Job

Cement Circulated!

Thanks!

CHARGE TO: Ma Orl

STREET _____

CITY _____ STATE _____ ZIP _____

SERVICE

DEPTH OF JOB				
PUMP TRUCK CHARGE				<u>991.00</u>
EXTRA FOOTAGE		@		
MILEAGE	<u>2</u>	@	<u>7.00</u>	<u>14.00</u>
MANIFOLD		@		
TOTAL				<u>1005.00</u>

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PLUG & FLOAT EQUIPMENT

<u>1 8 5/8 wooden Plug</u>	@		<u>110.00</u>
	@		
	@		
	@		
	@		

To Allied Cementing Co., LLC
You are hereby requested to rent cementing equipment

Rein Unit #2 Drilling Report

Mai Oil Operations, Inc.
Rein Unit #2
 210'N & 110'W NE NE
 Section 11-13S-14W
 Russell County, Kansas
 #15-167-23,567

KB: 1795
 GL: 1787

Reference Well A: *Mai Rein Unit #1 10'S & 40'E N/2 N/2 Section 11-13S-14W*
Reference Well B: *R&W Sellens "A" #1 NW SW NW Section 12-13S-14W*

		<u>A:</u>	<u>B:</u>		<u>A:</u>	<u>B:</u>
<u>SAMPLE TOPS</u>				<u>ELECTRIC LOG TOPS</u>		
Anhydrite	816 (+979)	-2	-20	Anhydrite	813 (+982)	+1 -17
B/Anhydrite	850 (+945)	flat	-16	B/Anhydrite	848 (+947)	+2 -14
Topeka	2684 (-889)	-8	-6	Topeka	2682 (-887)	-6 -4
Heebner	2907 (-1112)	-10	-1	Heebner	2906 (-1111)	-9 flat
Toronto	2926 (-1131)	-10	-2	Toronto	2924 (-1129)	-8 flat
Lansing	2964 (-1169)	-11	-2	Lansing	2962 (-1167)	-9 flat
Mun Creek	3102 (-1307)	-10	-2	Mun Creek	3102 (-1307)	-10 -2
B/KC	3228 (-1433)	-12	-2	B/KC	3226 (-1431)	-10 flat
Arbuckle	3269 (-1474)	-25	+2	Arbuckle	3263 (-1468)	-19 +8
"Dolo"	3272 (1477)	NA	NA	"Dolo"	3270 (-1475)	NA NA
RTD	3325 (-1530)			LTD	3325 (-1530)	

Sample Shows and Drill Stem Tests:

Topeka Top:

Limestone, cream; slightly fossiliferous; poor to scattered fair pinpoint porosity; medium to dark brown saturated stain; fair show of free oil – oil coating all rocks in tray on break; slight odor – appears tite in dry sample.

Plattsmouth 50' zn:

Limestone, cream; fossiliferous and oolitic; poor oolitic porosity; medium brown spotty to subsaturated stain; slight show of free oil; slight odor.

Plattsmouth 30' zn:

Circulate 2890'

Limestone, cream; fossiliferous and suboolitic; poor oolitic porosity; medium brown spotty stain – 20" and 40" circulation samples have increasing amounts of dark brown saturated stain; slight to fair show of free oil; questionable show of gas on break; no odor.

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Toronto:

Limestone, cream-gray; fossiliferous and oolitic; poor interparticle porosity; isolated poor to fair pinpoint porosity; medium brown spotty to rare subsaturated stain; slight show of free oil; slight questionable odor – overall looks tite in dry sample.

Lansing "A":

Circulate 2975' DST #1

Limestone, cream; fossiliferous and oolitic; dolomitic; poor to fair interparticle and pinpoint porosity; medium brown saturated stain; slight show of free oil – some gas on break; fair gassy odor.

Lansing "B":

Circulate 3000' DST #1

Limestone, cream; fossiliferous and very oolitic; some pelletoid; dolomitic; fair pinpoint porosity; golden brown saturated stain; slight show of free oil; fair gassy odor.

DST #1:

Superior Testing Co., Inc.

Lansing "A-B"

Jared Scheck; Tester

2937-3000

1st Op: Weak Bldg 2"

No Blowback

2nd Op: Weak Bldg 1"

No Blowback

Rec:

30' Mud

IFP: 50-61#/45"

ISIP: 615#/45"

FFP: 64-70#/45"

FSIP: 411#/45"

Pipe Strap at 3000': 1.77 Board Short (windy)

Lansing "C":

Circulate 3020'

Limestone, cream; oolitic; 1 piece pelletoid; abundant pieces oolitic; fair oolitic porosity; 4-5 pieces light brown subsaturated stain in oolitic porosity – 1 piece with very dark saturated stain with slight show of free oil; oolitic porosity is totally barren.

Lansing "E":

DST #2

Limestone, tan-gray-brown; fossiliferous; poor visible porosity; blocky; dense; no show of oil in wet or dry circulation samples; very slight questionable odor.

Lansing "Upr F":

DST #2

Limestone, cream-tan; very oolitic; pelletoid; isolated vugular porosity with very light brown spotty stain around vugs; very slight show of free oil; slight questionable odor.

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Lansing "Lwr F":

Circulate 3056' DST #2

Limestone, cream-white; very oolitic; slightly dolomitic; poor to fair interparticle and pinpoint porosity; abundant pieces golden brown saturated stain; slight show of free oil – 1 piece with gas bubbles on break; slight odor; scattered white chert.

DST #2:

Superior Testing Co., Inc.

Lansing "E-F"

Jared Scheck; Tester

3025-3056

1st Op: Weak 1/2"

No Blowback

2nd Op: Very Weak Surface; Pulled Tool

Rec:

130' SOCMW (1%O, 49%M, 50%W)

IFP: 36-76#/30"

ISIP: 741#/30"

FFP: 77-99#/15"

FSIP: Not Taken

Chlor: 40,000 ppm

Lansing "G":

Limestone, white; very oolitic; 3-4 pieces very light brown spotty stain; oolitic porosity predominantly barren; subchalky; rare pieces with very slight show of free oil; no odor.

Lansing "H":

Circulate 3120'

Limestone, cream; oolitic; rare pelletoid; isolated secondary crystalline growth; poor interparticle porosity; few pieces light golden brown spotty stain; very slight show of free oil; no odor.

Lansing "I":

Circulate 3140' DST #3

Limestone, white; oolitic; poor to fair interparticle porosity; isolated vugular porosity; medium to dark brown subsaturated stain; increasing amount dark brown saturated stain in 20" and 40" circulation samples; slight to fair show of free oil; slight to fair odor.

Lansing "J":

Circulate 3170' DST #3

Limestone, cream; very oolitic; subpelletoid; fair pinpoint porosity; medium to dark brown subsaturated to saturated stain; slight to fair show of free oil – smells slightly gassy; fair odor – increased amounts of saturated stain in 20" circulation sample.

DST #3:

Superior Testing Co., Inc.

Lansing "I-J"

Jared Scheck; Tester

3120-3170

1st Op: Weak Surface; Died 10"; Flush Tool; No Help

No Blowback

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2nd Op: Flush Tool 2nd Time; Very Weak Surge; Pulled Tool

Rec:
10' Mud

IFP: 44-51#/30"
ISIP: 1023#/30"
FFP: 52-53#/10"
FSIP: Not Taken

Lansing "K":

Limestone, cream; very oolitic; subpelletoid; poor interparticle porosity; couple pieces light brown spotty stain; very slight show of free oil; no odor – overall appears very tite.

Lansing "L":

Limestone, cream; oolitic; poor interparticle porosity; few pieces light brown spotty stain; no show of free oil; no odor.

Will run electric logs and evaluate zones...drilled 55' of Arbuckle for disposal well.

FINAL REPORT

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