

STATE CORPORATION COMMISSION OF KANSAS
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM
ACO-1 WELL HISTORY
DESCRIPTION OF WELL AND LEASE

API NO. 15- 163-23372-0000 **ORIGINAL**
County ROOKS
APPROX C - N $\frac{1}{2}$ - SW Sec. 33 Twp. 9 Rge. 20 X ^E _W

Operator: License # 5259

Name: MAI OIL OPERATIONS, INC.

Address P.O. BOX 33

City/State/Zip RUSSELL, KS. 67665

Purchaser: NCRA

Operator Contact Person: ALLEN BANGERT

Phone (785) 483 2169

Contractor: Name: MURFIN DRILLING CO., INC

License: 30606

Wellsite Geologist: TODD MORGENSTERN

Designate Type of Completion
 New Well Re-Entry Workover

Oil SWD SIOW Temp. Abd.
 Gas ENHR SIGW
 Dry Other (Core, WSW, Expl., Cathodic, etc)

If Workover:

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

Deepening Re-perf. Conv. to Inj/SWD
 Plug Back PBTD
 Commingled Docket No. _____
 Dual Completion Docket No. _____
 Other (SWD or Inj?) Docket No. _____

4-2-2003 4-8-2003 4-8-2003
Spud Date Date Reached TD Completion Date

1790 Feet from S/N (circle one) Line of Section
1275 Feet from E/W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:
NE, SE, NW or S/W (circle one)

Lease Name HINKHOUSE Well # 33-1

Field Name MARCOTTE

Producing Formation ARBUCKLE

Elevation: Ground 2252' KB 2257'

Total Depth 3880' PBTD 3843'

Amount of Surface Pipe Set and Cemented at 220 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set _____ Feet

If Alternate II completion, cement circulated from 1731

feet depth to SURFACE w/ 225 sx cmt.

Drilling Fluid Management Plan 11/11/03
(Data must be collected from the Reserve Pit)

Chloride content 15000 ppm Fluid volume 200 bbls

Dewatering method used LET DRY

Location of fluid disposal if hauled offsite: _____

Operator Name _____

Lease Name _____ License No. _____

_____ Quarter Sec. _____ Twp. _____ S Rng. _____ E/W

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 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 Allen Bangert

Title PROD. SUPT. Date 7-25-2003

Subscribed and sworn to before me this 25th day of July, 2003.

Notary Public Verna May Hutchings

Date Commission Expires April 10, 2005

K.C.C. OFFICE USE ONLY
F Letter of Confidentiality Attached
C Wireline Log Received
C Geologist Report Received
Distribution
 KCC SWD/Rep NGPA
 KGS Plug Other (Specify)

RECEIVED
7/28/03
JUL 28 2003

Form ACO-1 (7-91)

VERNA MAY HUTCHINGS
State of Kansas
Appt. Exp. 4-10-05

KCC WICHITA

Operator Name MAI OIL OPERATIONS, INC. Lease Name HINKHOUSE Well # 33-1
 Sec. 33 Twp. 9 Rge. 20 East West
 County ROOKS

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all 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 during test. Attach extra sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken Yes No
 (Attach Additional Sheets.)
 Samples Sent to Geological Survey Yes No
 Cores Taken Yes No
 Electric Log Run Yes No
 (Submit Copy.)

List All E.Logs Run: COMPENSATED NEUTRON*
DENSITY, DUALL INDUCTION, SONIC

Name	Top	Datum
ANHYDRITE	1748'	509
BASE ANHYDRITE	1792'	465
TOPEKA	3285'	-1028
HEEBNER	3486'	-1229
TORONTO	3508'	-1251
LANSING	3526'	-1269
BKC	3749'	-1492
ARBUCKLE	3826'	-1569

CASING RECORD <input type="checkbox"/> New <input checked="" 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#	220'	60-40POZ	160	2% GEL 3% CC
PRODUCTION	7 7/8"	5 1/2"	14#	3879'	ASC	160	

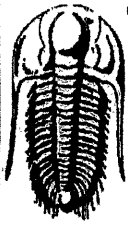
ADDITIONAL CEMENTING/SQUEEZE RECORD

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 (Amount and Kind of Material Used) Depth
4	3826-28'	

TUBING RECORD	Size	Set At	Packer At	Liner Run <input type="checkbox"/> Yes <input type="checkbox"/> No
	2 7/8"	3840'		
Date of First, Resumed Production, SWD or Inj.	Producing Method <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)			
5-19-2003				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio Gravity
	11		150	

Disposition of Gas: **METHOD OF COMPLETION** Vented Sold Used on Lease (If vented, submit ACO-18.) Open Hole Perf. Dually Comp. Commingled 3826-28'
 Other (Specify) _____



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Mai Oil Operations

Hinkhouse 33-1

Box 33
Russell KS 67665

33-9s-20w Rooks KS

ATTN: Alan Bangert

RECEIVED

Job Ticket: 16933

DST#: 2

Test Start: 2003.04.07 @ 12:02:32

JUL 28 2003

GENERAL INFORMATION:

KCC WICHITA

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 13:52:02
 Time Test Ended: 18:19:32

Test Type: Conventional Bottom Hole
 Tester: Paul Simpson
 Unit No: 21

Interval: **3836.00 ft (KB) To 3843.00 ft (KB) (TVD)**
 Total Depth: **3843.00 ft (KB) (TVD)**
 Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2257.00 ft (KB)
 2252.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 2357

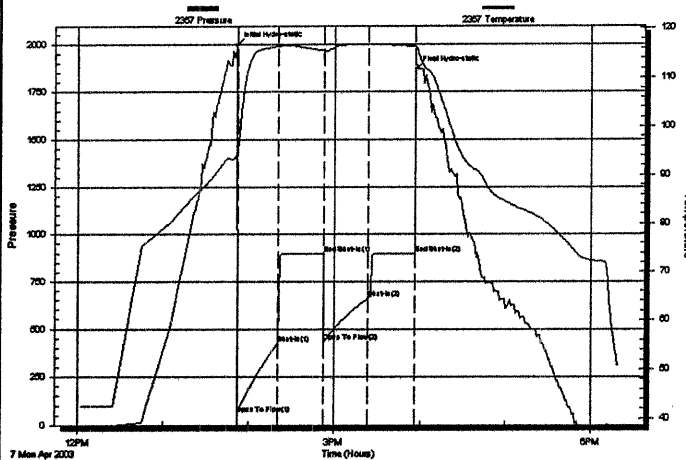
Inside

Press@RunDepth: 658.66 psig @ 3837.00 ft (KB)
 Start Date: 2003.04.07 End Date: 2003.04.07
 Start Time: 12:02:37 End Time: 18:19:31

Capacity: 7000.00 psig
 Last Calib.: 2001.01.07
 Time On Btrn: 2003.04.07 @ 13:51:32
 Time Off Btrn: 2003.04.07 @ 15:56:02

TEST COMMENT: F- Strong blow built to bottom of bucket in 3 mints
 IS- Weak surface blow
 FF- Blow built to bottom of bucket in 6 minutes
 FSI - Surface blow

Pressure vs. Time



PRESSURE SUMMARY

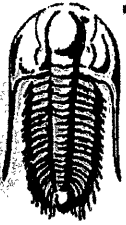
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1995.23	94.21	Initial Hydro-static
1	58.44	94.85	Open To Flow (1)
30	426.00	116.41	Shut-In(1)
61	898.74	115.56	End Shut-In(1)
62	435.65	115.54	Open To Flow (2)
92	658.66	116.80	Shut-In(2)
124	898.38	116.40	End Shut-In(2)
125	1867.16	116.40	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1110.00	salt water	14.52
380.00	watery oil 60% O 40% W	5.33
40.00	oil	0.56

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Mai Oil Operations

Hinkhouse 33-1

Box 33
Russell KS 67665

33-9s-20w Rooks KS

Job Ticket: 16932

DST#: 1

ATTN: Alan Bangert

Test Start: 2003.04.06 @ 22:17:50

RECEIVED

GENERAL INFORMATION:

Formation: **Arbuckel**
 Deviated: **No** Whipstock: **ft (KB)**
 Time Tool Opened: 00:03:50
 Time Test Ended: 04:54:50

JUL 2 8 2003
KCC WICHITA

Test Type: Conventional Bottom Hole
 Tester: Paul Simpson
 Unit No: 21

Interval: **3765.00 ft (KB) To 3832.00 ft (KB) (TVD)**
 Total Depth: **3832.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Good**

Reference Elevations: **2257.00 ft (KB)**
2252.00 ft (CF)
 KB to GR/CF: **5.00 ft**

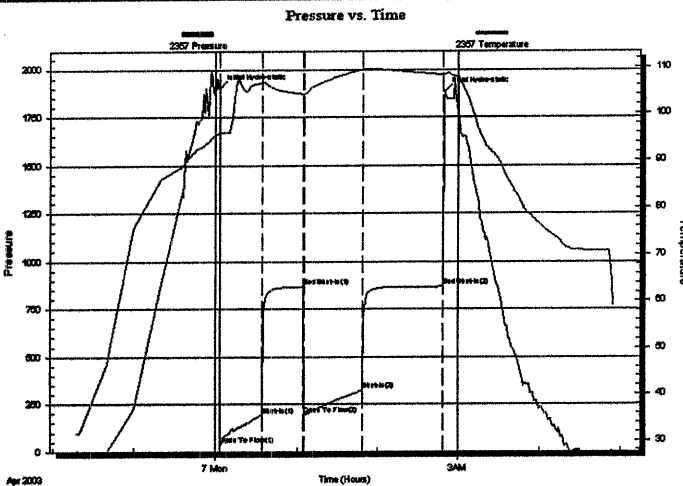
Serial #: 2357

Inside

Press@RunDepth: **324.72 psig @ 3769.00 ft (KB)**
 Start Date: **2003.04.06** End Date: **2003.04.07**
 Start Time: **22:17:55** End Time: **04:54:49**

Capacity: **7000.00 psig**
 Last Calib.: **2001.01.07**
 Time On Btmr: **2003.04.07 @ 00:03:20**
 Time Off Btmr: **2003.04.07 @ 02:49:50**

TEST COMMENT: **F- 1" blow building to bottom of bucket in 8 minutes**
ISI- weak surface blow
FF- 1" blow building to bottom of bucket in 9 minutes
FSI weak blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1900.94	95.84	Initial Hydro-static
1	41.36	95.88	Open To Flow (1)
31	193.04	106.63	Shut-In (1)
61	867.36	104.13	End Shut-In (1)
62	195.93	104.11	Open To Flow (2)
106	324.72	109.49	Shut-In (2)
166	867.46	108.29	End Shut-In (2)
167	1882.62	108.34	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
245.00	sl OCMW 10% O 60% W 30% M	2.39
190.00	M&WCO 40% O 30% W 30% M	2.67
310.00	cl Oil 10% gas 90% O	4.35
0.00	240' gas in pipe	0.00

Gas Rates

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

ALLIED CEMENTING CO., INC. 1337

ORIGINAL

P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:

R

<u>H-8-03</u>	SEC.	TWP.	RANGE	CALLED OUT	ON LOCATION <u>11:00am</u>	JOB START <u>3:30am</u>	JOB FINISH <u>4:15pm</u>
WELL # <u>33-1</u>		LOCATION <u>PALCO BOOSTER STA. 15 1/4 E</u>			COUNTY <u>ROCKS</u>	STATE <u>KS</u>	
<input checked="" type="radio"/> OLD OR <input type="radio"/> NEW (Circle one)							

CONTRACTOR MURFEN II

TYPE OF JOB PRODUCTION STRING

HOLE SIZE 7 7/8 T.D. 3888

CASING SIZE 5 1/2 DEPTH 3876

TUBING SIZE _____ DEPTH _____

DRILL PIPE _____ DEPTH _____

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE ✓ SHOE JOINT 31.36

CEMENT LEFT IN CSG. 31.36

OWNER _____

CEMENT

AMOUNT ORDERED 185 ASC 2 1/2" LFL

3/4 of 1 1/2" CD-31 1/2 LB/SK FLO-SEAL

750 GAL WFR-2

PERES. _____

DISPLACEMENT 93 3/4

EQUIPMENT

COMMON	_____	@	_____	_____
POZMIX	_____	@	_____	_____
GEL	_____	@	_____	_____
CHLORIDE	_____	@	_____	_____
ASC	<u>185</u>	@	<u>9.00</u>	<u>1665.00</u>
CD-31	<u>130</u>	@	<u>5.50</u>	<u>715.00</u>
WFR-2	<u>750</u>	@	<u>1.00/GAL</u>	<u>750.00</u>
FLO-SEAL	<u>25</u>	@	<u>1.40/LB</u>	<u>35.00</u>
HANDLING	<u>185</u>	@	<u>1.15</u>	<u>212.75</u>
MILEAGE	<u>5 1/2</u>	@	<u>76.00/MILE</u>	<u>416.25</u>

PUMP TRUCK CEMENTER MARK

345 HELPER DAVE

BULK TRUCK

213 DRIVER RUFUS

BULK TRUCK

_____ DRIVER _____

RECEIVED

TOTAL 3794.00

JUL 28 2003

KCC WICHITA

REMARKS:

15 SK C RATHOLE

10 SK C MOUSEHOLE

75 SK C 14 LB/GAL

100 SK C 15 LB/GAL

FLOAT HELD

SERVICE

DEPTH OF JOB	_____	_____	_____
PUMP TRUCK CHARGE	_____	@	<u>1130.00</u>
EXTRA FOOTAGE	_____	@	_____
MILEAGE	<u>45</u>	@	<u>3.50</u>
PLUG <u>5 1/2 TRP</u>	_____	@	<u>60.00</u>
_____	_____	@	_____
_____	_____	@	_____

THANKS

TOTAL 1347.50

CHARGE TO: MAT

STREET _____

CITY _____ STATE _____ ZIP _____

FLOAT EQUIPMENT

<u>5 1/2</u>	_____	_____	_____
GUIDE SLICE	@	<u>150.00</u>	<u>150.00</u>
INSERT	@	<u>235.00</u>	<u>235.00</u>
7/8 TURD CENT	@	<u>50.00</u>	<u>300.00</u>
1 CENT	@	<u>40.00</u>	<u>40.00</u>
PORT COLLAR	@	<u>1800.00</u>	<u>1500.00</u>
BASKET	@	<u>142.00</u>	<u>142.00</u>
TOTAL			<u>2367.00</u>

To Allied Cementing Co., Inc.
You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or

ORIGINAL

IED CEMENTING CO., INC. 13315

BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT
R

DATE <u>4-2-03</u>	SEC.	TWP.	RANGE	CALLED OUT	ON LOCATION	JOB START <u>7:45</u>	JOB FINISH <u>8:00 PM</u>
LEASE <u>Hinkhouse</u>		WELL # <u>1-33</u>	LOCATION <u>PALCO BOOSTER ST. 15</u>		COUNTY <u>ROCK</u>	STATE <u>KS</u>	
OLD OR <u>NEW</u> (Circle one)			<u>1/2 E N</u>				

CONTRACTOR MURFIN 16

TYPE OF JOB SURFACE

HOLE SIZE 12 1/4 T.D. 221

CASING SIZE 8 5/8 DEPTH 721

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. 15'

PERES

DISPLACEMENT 13 BBL

EQUIPMENT

PUMP TRUCK CEMENTER MARK

345 HELPER CLAY

BULK TRUCK

213 DRIVER SHANE

BULK TRUCK

DRIVER

OWNER

CEMENT

AMOUNT ORDERED 160 6 3/4 390 CC
290 CCL

COMMON	<u>96</u>	@	<u>7.15</u>	<u>686.40</u>
POZMIX	<u>64</u>	@	<u>3.00</u>	<u>243.20</u>
GEL	<u>3</u>	@	<u>10.00</u>	<u>30.00</u>
CHLORIDE	<u>5</u>	@	<u>30.00</u>	<u>150.00</u>
		@		
		@		
		@		
		@		
		@		
		@		
HANDLING	<u>60</u>	@	<u>1.5</u>	<u>184.00</u>
MILEAGE	<u>54/SK</u>	@		<u>440.00</u>
RECEIVED				
				TOTAL <u>1733.60</u>

JUL 28 2003

REMARKS:

KCC WICHITA SERVICE

CEMENT CHECK

DEPTH OF JOB

PUMP TRUCK CHARGE 520.00

EXTRA FOOTAGE @

MILEAGE 55 @ 3.50 192.50

PLUG 8 5/8 wood @ 45.00

TOTAL 757.50

CHARGE TO: MAT

STREET

CITY STATE ZIP

FLOAT EQUIPMENT

@

@

@

@

@