

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

Operator: License # 5259

Name: MAI OIL OPERATIONS, INC.

Address P.O. BOX 33

City/State/Zip RUSSELL, KS. 67665

Purchaser: \_\_\_\_\_

Operator Contact Person: ALLEN BANGERT

Phone (785) 483 2169

Contractor: Name: SHIELDS DRILLING CO.

License: 5184

Wellsite Geologist: DAVE SHUMAKER

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  PBTB

Commingled  Docket No. \_\_\_\_\_

Dual Completion  Docket No. \_\_\_\_\_

Other (SWD or Inj?)  Docket No. \_\_\_\_\_

<u>7-29-97</u>	<u>8-4-97</u>	<u>8-4-97</u>
Spud Date	Date Reached TD	Completion Date

API NO. 15- 051-249710000

County ELLIS plugged 8-4-97

-NE -NW -NE Sec. 6 Twp. 11 Rge. 20 X <sup>E</sup> <sub>W</sub>

4950 Feet from (S)N (circle one) Line of Section

1580 Feet from (E)W (circle one) Line of Section

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

Lease Name RICHARDS Well # 6

Field Name MENDOTA

Producing Formation ARBUCKLE

Elevation: Ground 2082 KB 2086

Total Depth 3710 PBTB 3710

Amount of Surface Pipe Set and Cemented at 224 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/ \_\_\_\_\_ sx cmt.

Drilling Fluid Management Plan D+A, 5-18-98 uc.  
(Data must be collected from the Reserve Pit)

Chloride content 57000 ppm Fluid volume 390 bbls

Dewatering method used HAULED TO DISPOSAL

Location of fluid disposal if hauled offsite: \_\_\_\_\_

Operator Name MAI OIL OPERATIONS, INC.

Lease Name RICHARDS License No. 5259

NE Quarter Sec. 6 Twp. 11 S Rng. 20 (E)W

County ELLIS Docket No. D-26,924

**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 2-26-98

Subscribed and sworn to before me this 26th day of February, 1998.

Notary Public Verna May Hutchings

Date Commission Expires April 10, 2001

K.C.C. OFFICE USE ONLY	
F	<input type="checkbox"/> Letter of Confidentiality Attached
C	<input type="checkbox"/> Wireline Log Received
C	<input checked="" type="checkbox"/> Geologist Report Received
Distribution	
<input checked="" type="checkbox"/> KCC	<input type="checkbox"/> SWD/Rep
<input type="checkbox"/> KGS	<input type="checkbox"/> Plug
	<input type="checkbox"/> NGPA
	<input type="checkbox"/> Other (specify)
MAR 2 3-2-1998	
STATE CORPORATION COMMISSION	
OIL & GAS CONSERVATION DIVISION	



ORIGINAL

SIDE TWO

Operator Name MAI OIL OPERATIONS, INC.

Lease Name RICHARDS

Well # 6

Sec. 6 Twp. 11 Rge. 20

East

County ELLIS

West

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:

Log Formation (Top), Depth and Datums  Sample

Name	Top	Datum
ANHYDRITE	15+7	540
TOPEKA	3133	-1046
HEEBNER	33+1	-1259
TORONTO	3358	-1271
LKC	3373	-1291
BKC	3527	-1510
CONGLOMERATE	3657	-1580

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	20	224	60-40 PORT	150	2% GEL 3% CC

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

TUBING RECORD	Size	Set At	Packer At	Liner Run <input type="checkbox"/> Yes <input type="checkbox"/> No

Date of First, Resumed Production, SWD or Inj.	Producing Method <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)
<u>NEA</u>	

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	<u>NEA</u>				

Disposition of Gas: METHOD OF COMPLETION

Production Interval

Vented  Sold  Used on Lease  
(If vented, submit ACO-18.)

Open Hole  Perf.  Dually Comp.  Commingled

Other (Specify) \_\_\_\_\_



**Kansas Corporation Commission**

Bill Graves, Governor John Wine, Chair Susan M. Seltsam, Commissioner Cynthia L. Claus, Commissioner

Mai Oil Operations Inc  
P O Box 33  
Russell KS 67665

March 10, 1998

RE: Richards #6  
API # 15-051-24,971 -00-00  
Ellis County, Kansas

Dear Allen Bangert:

An affidavit of completion form (ACO-1) on the above referenced well was received on 03-02-98. Technical review finds that the ACO-1 is **incomplete**. The information requested below, or an amended/corrected complete ACO-1, must be submitted by 03-24-98.

Only current ACO-1 forms will be accepted - Form ACO-1 (Rev. 7-91), and only lines marked below with **XXX** apply.

\_\_\_\_ Copy of geological report  
\_\_\_\_ Form is outdated. Please  
complete enclosed form.  
\_\_\_\_ Need letter requesting

\_\_\_\_ Cement tickets (field copies)  
for well.  
\_\_\_\_ ACO-1 well location/intent  
(Form C-1) location do not  
match. Please confirm the  
location.\*

\_\_\_\_ Affidavit not notarized.  
\_\_\_\_ Affidavit not signed.  
\_\_\_\_ Anything marked in **RED**  
\_\_\_\_ Complete the Form: Type of  
Completion  
\_XXX\_ Other: Spud Date, Date Reached TD,  
and Completion Date.

\_\_\_\_ Note: Cement Tickets must be  
from company providing the cement,  
not necessarily the Contractor.

K.C.C. regulation 82-3-107 provided confidentiality, upon written request for a period of one year, from such letter request. Confidentiality rights are waived if the ACO-1's remain incomplete, or is not timely filed (within 120 days from the wells spud date) including: Electric logs, geologist's sample reports, driller's logs, and Kansas Geological Survey Requested samples.

Do no hesitate to call the Kansas Corporation Commission, Conservation Division, at (316) 337-6209 if there are any questions. Please return this form and any enclosures with your reply.

Sincerely,

Janet Pierce  
Production Department

\* NOTE: If the intent is incorrect, you need to file a corrected intent.

jlp

# ALLIED CEMENTING CO., INC.

Federal Tax I.D.# ~~48-0000000~~

15-051-24971-00-00

0100

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

SERVICE POINT: K

ORIGINAL

DATE <u>7-29-97</u>	SEC. <u>6</u>	TWP. <u>11<sup>s</sup></u>	RANGE <u>20<sup>w</sup></u>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH <u>10:30pm</u>
LEASE <u>Richard</u>	WELL # <u>6</u>	LOCATION <u>Ellis 11 to Corine 2w</u>			COUNTY <u>Ellis</u>	STATE <u>KS</u>	
OLD OR <u>NEW</u> (Circle one)				<u>S-6</u>			

CONTRACTOR Shields Dwyer

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D. 227

CASING SIZE 8 3/8 DEPTH 224 20'

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE  SHOE JOINT

CEMENT LEFT IN CSG. 10-15'

PERFS.

DISPLACEMENT 13 3/4

OWNER

CEMENT

AMOUNT ORDERED 150 60/40 390cc  
290gal

COMMON @

POZMIX @

GEL @

CHLORIDE @

HANDLING @

MILEAGE

EQUIPMENT

PUMP TRUCK CEMENTER Mike

# 153 HELPER Paul

BULK TRUCK DRIVER Brent

# 282

BULK TRUCK DRIVER

TOTAL

REMARKS:

Cement line

SERVICE

DEPTH OF JOB

PUMP TRUCK CHARGE

EXTRA FOOTAGE @

MILEAGE @

PLUG 5 1/2 wooden @

TOTAL

CHARGE TO: Main Oil Operations

STREET

CITY STATE ZIP

FLOAT EQUIPMENT

3-2-1998

1998 MAR -2 P 14 @

KANSAS CORP CORP @

RECEIVED @

TOTAL

To Allied Cementing Co., Inc.  
You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as is listed. The above work was

# ALLIED CEMENTING CO., INC.

Federal Tax I.D.# ~~00000000~~

15-051-24971-00-00 <sup>0102</sup>

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

**ORIGINAL**

SERVICE POINT:

Russell

DATE <u>8-4-97</u>	SEC. <u>6</u>	TWP. <u>11</u>	RANGE <u>20</u>	CALLED OUT <u>10:30am</u>	ON LOCATION <u>1:30pm</u>	JOB START	JOB FINISH <u>11:45 PM</u>
LEASER <u>Richards</u>		WELL # <u>6</u>	LOCATION <u>Coline Spau 12 W 5 N</u>			COUNTY <u>Ellis</u>	STATE <u>Ka</u>
OLD OR <u>NEW</u> (Circle one)							

CONTRACTOR Shields Dalg

TYPE OF JOB plug

HOLE SIZE 7 1/2 T.D. 3710

CASING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_

TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_

DRILL PIPE 4 1/2 DEPTH 1570

TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_

PRES. MAX \_\_\_\_\_ MINIMUM \_\_\_\_\_

MEAS. LINE \_\_\_\_\_ SHOE JOINT \_\_\_\_\_

CEMENT LEFT IN CSG. \_\_\_\_\_

PERFS. \_\_\_\_\_

DISPLACEMENT \_\_\_\_\_

OWNER \_\_\_\_\_

CEMENT AMOUNT ORDERED 200 lbs 6/40 67 gal to #10 seal

COMMON \_\_\_\_\_ @ \_\_\_\_\_

POZMIX \_\_\_\_\_ @ \_\_\_\_\_

GEL \_\_\_\_\_ @ \_\_\_\_\_

CHLORIDE \_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

HANDLING \_\_\_\_\_ @ \_\_\_\_\_

MILEAGE \_\_\_\_\_

**EQUIPMENT**

PUMP TRUCK CEMENTER Bill

# 177 HELPER DAVE

BULK TRUCK

# \_\_\_\_\_ DRIVER \_\_\_\_\_

BULK TRUCK

# 160 DRIVER DARIN

TOTAL \_\_\_\_\_

**REMARKS:**

**SERVICE**

1st plug 1570 w/ 25 lb

2nd plug 750 w/ 100 lb

3rd plug 270 w/ 40 lb

10th & 40

15 lb Rathole 10th manhole

DEPTH OF JOB \_\_\_\_\_

PUMP TRUCK CHARGE \_\_\_\_\_

EXTRA FOOTAGE \_\_\_\_\_ @ \_\_\_\_\_

MILEAGE \_\_\_\_\_ @ \_\_\_\_\_

PLUG WOOD \_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

TOTAL \_\_\_\_\_

CHARGE TO: M.A. Oil Operating Co.

STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

3-2-1998

**FLOAT EQUIPMENT**

1998 MAR - 2 12:14

AMCAS CORP COMM \_\_\_\_\_ @ \_\_\_\_\_

RECEIVED \_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

TOTAL \_\_\_\_\_

To Allied Cementing Co., Inc.  
You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as indicated. The above work was



# Shields

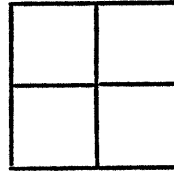
Russell, Kansas

## WELL LOG

15-051-24971-00-00

Operator: Mai Oil Operations, Inc.  
 Well: Richards #6  
 Commenced: July 29, 1997  
 Completed: August 4, 1997  
 Contractor: Shields Drilling Co.

Well Description: 70' East of NE NW NE  
 Sec. 6-11S-20W  
 Ellis Co., Kansas



Elevation: 2,086' KB

Treatment:

Production: D & A

Tops:

### CASING RECORD

Size	Run	Pulled
8 5/8"	224'	Cmtd. w/150 sax

**ORIGINAL**

..... Figures Indicate Bottom of Formations .....

Rock & shale	227'	
Shale & sand	1,492'	
Shale	1,554'	
Anhydrite	1,596'	
Shale	2,884'	
Shale & lime	3,280'	
Lime	3,690'	
Lime & shale	3,710'	RTD

1998 MAR -2 12:13

RECEIVED  
KANSAS CORP COMM

8661-2-3  
3-2-1998

ORIGINAL

Mai Oil Operations, Inc  
700 N. Pearl, #960, LB 349  
Dallas, Texas 75202

15-051-24971-00-00

**GEOLOGICAL REPORT:**

Richards No. 6  
70' East of NE-NW-NE  
6-11S-20W  
Ellis County, Kansas

**DRILLING CONTRACTOR:**

Shields Drilling Co. Rig. No. 2  
Russell, Kansas 67665

**DRILLING COMMENCED:**

July 29, 1997

**DRILLING COMPLETED:**

August 4, 1997

**CASING RECORD:**

8 5/8 set at 224' with 150 sx.

**DRILLING TIME:**

By Geolograph.  
1 foot intervals plotted and recorded  
from 2900' to 3710' R.T.D.

**SAMPLES:**

10' intervals from 3100' to 3710' R.T.D.

**DRILL STEM TESTS:**

No drill stem tests were run on the  
Richards No. 6.

**LOGS:**

No logs were run on the Richards No. 6.

**ELEVATION:**

Kelly Bushing 2087'  
Ground Level 2082'  
Measurements from K.B.

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89613

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FORMATION TOPS  
(Sample Tops)

<u>FORMATION</u>	<u>DEPTH</u>	<u>MINUS DATUM</u>
*Anhydrite	1547	+540
*Base-Anhydrite	1599	+488
Topeka	3133	-1046
Heebner	3341	-1254
Toronto	3358	-1271
Lansing-Kansas City	3378	-1291
Base-Kansas City	3597	-1510
Conglomerate	3667	-1580
Simpson	Not Present	
Arbuckle	Not Present	
Rotary Total Depth	3710	-1623
*Drillers Tops		

Lithology: Zones of Interest

Topeka 3133 (-1046) -Top  
3160-64

LS; White, poor crystalline porosity with no show. Slightly chalky.

3288-94

LS; Buff, fair fine crystalline and granular porosity with light stain. Very slight show of free oil and faint odor.

Heebner 3341 (-1254)

Toronto 3358 (-1271)  
3361-64

3-2-1998

White, poor crystalline porosity with no visible show. Cherty.

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MAY 2 1998



15-051-24971-00-00  
ORIGINAL

Lithology. Page 2

Lansing-Kansas City 3378 (-1291)

3378-81

LS; White to buff, fair crystalline porosity with no visible show.

3386-81

LS; White to buff, fair crystalline and fossil porosity with no show.

3416-20

LS; White, fair crystalline and oolitic porosity with no free oil or odor. Slightly chalky.

3465-69

LS; White, crystalline and fossil porosity with a trace of stain. Very slight show of free oil and very faint odor.

3478-84

LS; White, poor crystalline and slightly oolitic porosity with no show. Chalky.

3565-67

LS; White, fine crystalline and dense. Slightly chalky and fossiliferous. Trace of stain in poor porosity. No free oil or odor.

3575-79

LS; White, crystalline and fossiliferous. Scattered spotty stain in poor porosity. Very slight show of free oil and no odor.

Base-Kansas City 3597 (-1510)

Conglomerate 3667 (-1580)

3670-90

Congl; Weathered white lime with dull and vitreous cherts. Some rounded Quartz grains with soft red and brown shales. Trace of dead oil.

3690-98

Congl; As above with less red shale and more chert.

3698-3710

Congl; Weathered buff to white lime. Vitreous cherts with no visible shows.

Rotary Total Depth 3710 (-1623)

1998 MAR - 2 10

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15-051-24971-00-00

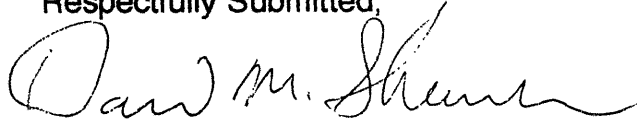
REMARKS AND RECOMMENDATIONS

The Richards No. 6 ran structurally lower than the Richards No. 4 and No. 5 when comparing the Lansing-Kansas City tops. Only minor shows of oil were noted in the Lansing-Kansas City as well as the Topeka. None of the shows noted appeared to be worthy of testing.

The Richards No. 6 was drilled to a minus datum of -1623 with no Arbuckle being encountered. Since the Arbuckle was not present and the Conglomerate had no commercial shows of oil, it was recommended that the Richards No. 6 be plugged and completed as a dry hole.

das/DMS

Respectfully Submitted,



David M. Shumaker  
Petroleum Geologist

1998 MAR - 2 12:14

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3-2-1998