

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

API NO. 15-051-249430000

ORIGINAL

County ELLIS

 - NW - SW - NE Sec. 6 Twp. 11 Rge. 20 X E

1650 Feet from (N) (circle one) Line of Section

2310 Feet from (E) (circle one) Line of Section

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

Lease Name RICHARDS Well # 5

Field Name MENDOTA

Producing Formation ARBUCKLE

Elevation: Ground 2041 KB 2046

Total Depth 3750 PBDT 3655

Amount of Surface Pipe Set and Cemented at 209 Feet

Multiple Stage Cementing Collar Used? Yes X No

If yes, show depth set Feet

If Alternate II completion, cement circulated from 1400

feet depth to SURFACE w/ 125 sx cmt.

Drilling Fluid Management Plan Alt 2, OK'd by Herb D. Dist. 4, 3-24-98
(Data must be collected from the Reserve Pit)

Chloride content 8000 ppm Fluid volume 200 bbls

Dewatering method used HAULED

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)

County ELLIS Docket No. D-26,924

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 (913) 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 PBDT

Commingled Docket No.

Dual Completion Docket No.

Other (SWD or Inj?) Docket No.

11-42-96 11-8-96 2-27-97
Spud Date Date Reached TD Completion Date

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 PRODUCTION SUPERINTENDENT Date 2-28-97

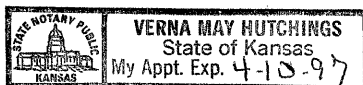
Subscribed and sworn to before me this 28th day of February, 19 97.

Notary Public Verna May Hutchings

Date Commission Expires April 10, 1997

K.C.C. OFFICE USE ONLY		
F	<input type="checkbox"/>	Letter of Confidentiality Attached
C	<input checked="" 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"/> NGPA
<input type="checkbox"/>	KGS	<input type="checkbox"/> Plug <input type="checkbox"/> Other (Specify)

Form ACO-1 (7-91)



Received 3-3-1997 HEE

Operator Name MAI OIL OPERATIONS, INC.

Lease Name RICHARDS

Well # 5

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:

GAMMA RAY-NEUTRON

Log Formation (Top), Depth and Datum Sample

Name	Top	Datum
TOPEKA	3078	-1032
HEBNER	3282	-1236
TORONTO	3302	-1256
LKC	3320	-1274
BKC	3542	-1496
SIMPSON	3621	-1575
ARBuckle	3643	-1597

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"	23#	209'	60-40POZ	140	2% GEL 3% CC
PRODUCTION	7 7/8"	5 1/2"	14#	3748'	EA-2	150	

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	3690-94, 3680-84, 3666-70'	SQUEEZE W/70 sks CMT	3666'
4	3666-69'	SQUEEZE W/50 sks CMT	3655'	
4	3642-48'			

TUBING RECORD	Size Set At	Packer At	Liner Run <input type="checkbox"/> Yes <input type="checkbox"/> No
	2 7/8" 3653'		

Date of First, Resumed Production, SMD or Inj.	Producing Method
2-27-97	<input type="checkbox"/> Flowing <input checked="" 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
	15		0		

Disposition of Gas: METHOD OF COMPLETION

Production Interval

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

Open Hole Perf. Dually Comp. Conmingled
 Other (Specify) _____

3642'-
3694'



15-051-24943-00-00 TRK 52418

TICKET CONTINUATION CUSTOMER COPY

TICKET No. 168413

HALLIBURTON ENERGY SERVICES

FORM 1911 R-10

CUSTOMER Mat Operations

WELL Richards #5

DATE 2-13-97

PAGE 2 OF 2

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
504-136±		1			40/60 Pozmix Standard	70				8 14	569 80
506-121		1			1sk Halliburton Gel@2%						n/c
507-775		1			Halad-322	24	1b			7 00	168 00
<p>Received HEE 3-3-1997</p>											
500-207		1			SERVICE CHARGE	CUBIC FEET		70		1 35	94 50
500-306		1			MILEAGE CHARGE	TOTAL WEIGHT	LOADED MILES	TON MILES		1 05	9 0 93
						5,773	30	86.595			

ORIGINAL

No. B 339409

CONTINUATION TOTAL 923.23



TRK 51252-76103

15-051-24943-00-00
 CUSTOMER COPY

TICKET CONTINUATION

TICKET No. 117414

HALLIBURTON ENERGY SERVICES

FORM 1911 R-10

CUSTOMER: **Mail Operations** WELL: **Richards #5** DATE: **2-24-97** PAGE **3** OF **4**

PRICE REFERENCE	SECONDARY REFERENCE / PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
504- XHR 280		1			Mid Con II P 2:01 (3-3-1997)	100	30	SKS		13 53	1353 122 25
509-406		1			Calcium Chloride	3				40 75	122 25
507-210		1			Flocele	68		1b		1 65	q 112 20
510-222		1			Sand 20/40	2				10 00	20 00
500-207		1			SERVICE CHARGE				CUBIC FEET 204	1 35	275 14
500-306		1			MILEAGE CHARGE	TOTAL WEIGHT 18,028		LOADED MILES 30	TON MILES 270.420	1 05	283 94

ORIGINAL

No. B 339425

CONTINUATION TOTAL ~~3,219.14~~ 2,312

ORIGINAL

700 N. Pearl, #960, LB 349
Dallas, Texas 75201

15-051-24943-00-00

GEOLOGICAL REPORT:

Richards No. 5
NW-SW-NE, 6-11S-20W
Ellis County, Kansas

CONTRACTOR:

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

DRILLING COMMENCED:

November 2, 1996

DRILLING COMPLETED:

November 8, 1996

CASING RECORD:

8 5/8 set at 209' with 140 sx.
60/40 poz mix. 5 1/2 set at 3749'.

DRILLING TIME:

By Geologist.
1' intervals plotted and recorded from
2900' to 3750' R.T.D.

SAMPLES:

10' intervals from 3050' to 3750' R.T.D.

DRILL STEM TESTS:

No drill stem tests were run on the
Richards No. 5.

LOGS:

No logs were run on the Richards No. 5.

ELEVATION:

Kelly Bushing 2046'
Ground Level 2041'
Measurements from K.B.

RECEIVED
KANSAS CORP CORP
1997 MAR -3 P 2:01
3-3-1997

15-051-24943-00-00

<u>FORMATION</u>	<u>DEPTH</u>	<u>MINUS DATUM</u>
Anhydrite	1497	+549
Base Anhydrite	1549 <i>Log</i>	+497 <i>Log</i>
Topeka	3080 <i>3078</i>	-1034 <i>1032</i>
Heebner	3285 <i>3282</i>	-1039 <i>1236</i>
Toronto	3305 <i>3302</i>	-1239 <i>1256</i>
Lansing-Kansas City	3325 <i>3320</i>	-1279 <i>1279</i> <i>Log</i> <i>1279</i>
Base-Kansas City	3548 <i>3542</i>	-1502
Simpson	3628 <i>3621</i>	-1582
Arbuckle	3643	-1597
Rotary Total Depth	3750	-1702

LITHOLOGY: ZONES OF INTEREST

NOTE: Sample descriptions are adjusted to cased hole log measurements

Topeka 3078-Top
3080-86

LS; White to light gray, fine crystalline and dense. Slightly fossiliferous. No show.

3106-09

LS; Buff, crystalline to slightly granular, fossiliferous. Trace of rare spotty stain. Slight odor, but no free oil.

3232-36

LS; Buff, poor sucrosic porosity with scattered light brown stain. Very slight show of free oil and fair odor.

RECEIVED
KANSAS CORP COMM
1997 MAR - P 200
3-3-1997

- Toronto 3303-05 LS; White to light gray, poor crystalline to granular porosity with a trace of stain. No free oil or odor.
- Lansing-Kansas City 3321-23 LS; White to buff crystalline, fair porosity, slightly oolitic. Trace of spotty stain. No free oil or odor. Cherty.
- 3357-63 LS; White, fine crystalline and dense. Trace of fair chalky porosity. Trace of chert. No free oil or odor.
- 3402-10 LS; White, chalky crystalline porosity with a trace of spotty stain. Very slight show of free oil and slight odor.
- 3415-18 LS; White to buff, fair fossiliferous and oolitic porosity with no show. Trace of chert.
- 3456-62 LS; Buff, crystalline and fossil porosity with a trace of stain. Trace of free oil and faint odor.
- 3494-97 LS; White to buff, crystalline and slightly fossiliferous. Trace of spotty stain. No free oil or odor.
- 3518-21 LS; White to buff, crystalline and granular. Trace of stain. No free oil or odor.
- Base-Kansas City 3541-Log Top 3548-Sample Top
- Simpson 3621-Log Top 3628-Sample Top
3621-28 Dol; Tan, crystalline and sucrosic. Fair porosity with light stain. Show of free oil and good odor. Green shale.
- 3628-31 Dol; As above. Show of very light oil.

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KANSAS CORP COMD
1997 MAR -3 P 2:00

Arbuckle 3643-Sample Top
3546-51

Dol; White, buff, and pink, crystalline and mostly dense. Trace of fair porosity with light stain. Fair show of free oil and fair odor.

3666-73

Dol; Buff fair to poor crystalline porosity with light stain. Trace of coarse crystalline porosity with light stain. Trace of coarse crystalline porosity with dark stain. Slight show of free oil and faint odor.

3686-89

Dol; Buff, crystalline and granular, medium to coarse crystalline porosity with light stain. Very slight show of free oil with fair odor.

3690-94

Dol; As above. Fair

3705-15

Dol; Buff to gray, medium to coarse crystalline, poor porosity with spotty stain. Show of watery free oil and fair odor.

3715-50

Dol; As above with included Quartz grains and slight shows of watery free oil and decreasing odor.

Rotary Total Depth 3750 (-1704)

RECEIVED
KANSAS CORP COMM
1997 MAR -3 P 2:01
3-3-1997