

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

Operator: License # 5086

Name: Pintail Petroleum, Ltd.

Address 225 N. Market # 300

City/State/Zip Wichita, KS 67202

Purchaser: Koch Oil

Operator Contact Person: Walter Innes Phillips

Phone (316) 263-2243

Contractor: Name: Mallard JV

License: 4958

Wellsite Geologist: Flip Phillips

Designate Type of Completion

New Well Re-Entry Workover

Oil SVD SICM Temp. Abd.

Gas EXHR SICM

Dry Other (Core, WSM, Expl., Cathodic, etc)

If Workover/Re-Entry: old well info as follows:

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

Deepening Re-perf. Conv. to Inj/SVD

Plug Back PSTD

Commingled Docket No. _____

Dual Completion Docket No. _____

Other (SVD or Inj) Docket No. _____

<u>10/15/97</u>	<u>10/22/97</u>	<u>12/7/97</u>
Spud Date	Date Reached TD	Completion Date

<u>10/15/97</u>	<u>10/22/97</u>	<u>12/7/97</u>
-----------------	-----------------	----------------

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 200 Colorado Derby Building, 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 Best A. Isorn

Title Geologist Date 1/5/98

Subscribed and sworn to before me this 5th day of January 1998.

Notary Public Susan Utterback

Date Commission Expires 9/7/98

NOTARY PUBLIC - State of Kansas
 SUSAN UTTERBACK
 My Appt. Exp. 9/7/98

API NO. 15- 135-24037-00-00

County Ness

NE - SW - NE Sec. 31 Twp. 17S Rge. 24 E W

1510 Feet from S (circle one) Line of Section

1700 Feet from E (circle one) Line of Section

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

Lease Name Rodie Well # 2

Field Name Keilman South

Producing Formation Mississippian

Elevation: Ground 2407 KS 2412

Total Depth 4393 PSTD _____

Amount of Surface Pipe Set and Cemented at 231 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set 1726 Feet

If Alternate II completion, cement circulated from 1726

feet depth to surface 190 ft cat.

Drilling Fluid Management Plan AH-2, 5-7-98 U.S.
(Data must be collected from the Reserve Pit)

Chloride content 56,000 ppm Fluid volume 500 bbls.

Dewatering method used evaporation

Location of fluid disposal if hauled offsite: _____

Operator Name _____

Lease Name _____ License No. _____

Quarter Sec. Twp. S Rng. E/W

County _____ Docket No. _____

E.C.C. OFFICE USE ONLY

F Confidentiality Attached

G STATE MAPS/LOG RECEIVED

C Geologist Report Received

JAN 29 1998

KCS SVD/Rep KCPA

Plug Other

CONSERVATION DIVISION (Specify)

Wichita, Kansas

Form ACO-1 (7-91)
01-29-1998

SIDE TWO

Operator Name Pintail Petroleum, Ltd.

Lease Name Rodie

Well # 2

Sec. 31 Twp. 17S Rge. 24

East
 West

County Ness

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 Datum Sample

Name	Top	Datum
Stone Corral	3138	-726
Heebner	3740	-1328
Lansing	3782	-1370
B/KC	4089	-1677
Pawnee	4200	-1708
FS	4280	-1868
Cherokee	4309	-1897
Miss	4382	-1970

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 (new)	12 1/4"	8 5/8"	23	231	60/40 poz	160	2% gel 3% cc
Production(used)	7 7/8"	5 1/2"	14	4383	50/50 poz	215	10% salt 1% cer-3
				1726	Midcon II	190	-

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose:	Depth		Type of Cement	#Sacks Used	Type and Percent Additives
	Top	Bottom			
<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
	2 7/8"	4372	NA	<input type="checkbox"/> Yes <input type="checkbox"/> No

Date of First, Resumed Production, SWD or Inj.	Producing Method
12/7/97	<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
	60	None	None		37

Disposition of Gas:

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

METHOD OF COMPLETION

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

Production Interval
4384-
4393

07-Jan-98

DST ID	Date	Formation	Start Depth	End Depth	ISIP	FSIP	IFP	FFP	Time Interval
1	10/22/97	MISS	4323	4393	1244	1230	122-150	206-278	20-30-55-45

First Open strong blow

Second Open strong blow

Recovery 300' GIP, 250' CGO, 440' MCGO = 690' total fluid. Hyd. 2177-2143#. Bottom hole temp=116 deg

15-135-24034

ORIGINAL

RECEIVED
STATE CORPORATION COMMISSION

JAN 29 1998

REGISTRATION DIVISION
Wichita, Kansas

ALLIED CEMENTING CO., INC.

4427

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

ORIGINAL

SERVICE POINT:

At Bend

DATE <i>10-16-97</i>	SEC. <i>31</i>	TWP. <i>17</i>	RANGE <i>24</i>	10-15-97 CALLED OUT <i>8:30 PM</i>	ON LOCATION <i>11:30 AM</i>	JOB START <i>3:00 AM</i>	JOB FINISH <i>3:30 AM</i>
LEASE <i>Rodae</i>	WELL # <i>2</i>	LOCATION <i>Near city, 3w, 1w, 1w, 5w, 3/4w</i>			COUNTY <i>Waba</i>	STATE <i>Ks</i>	

OLD OR NEW (Circle one)

CONTRACTOR *Mallard JVC*

TYPE OF JOB *Sealwell*

HOLE SIZE *12 1/4"* T.D. *238'*

CASING SIZE *8 5/8"* DEPTH *238'*

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. *15'*

PERFS: *Deep = 14 1/4 bbl/s*

OWNER *Same*

CEMENT

AMOUNT ORDERED *1120 lbs 60/40, 370 cc, 270 lbs*

COMMON	@	
POZMIX	@	
GEL	@	
CHLORIDE	@	
	@	
	@	
	@	
	@	
	@	
HANDLING	@	
MILEAGE	@	

EQUIPMENT

PUMP TRUCK CEMENTER *Tom D*

181 HELPER *Jason D*

BULK TRUCK

222 DRIVER *Richard*

BULK TRUCK

DRIVER

TOTAL

REMARKS:

Ran 238' of 8 5/8" casing, Broke Circ. Mixed 1120 lbs 60/40 3/2. Released Plug. Displaced with fresh H₂O.

Cement did circulate!

SERVICE

DEPTH OF JOB *238'*

PUMP TRUCK CHARGE

EXTRA FOOTAGE @

MILEAGE @

PLUG *1-8 5/8" wooden* @

@

@

TOTAL

CHARGE TO: *Pentail Petroleum, Ltd*

STREET *225 N. Market Suite 300*

CITY *Wichita* STATE *Ks* ZIP *67202*

RECEIVED
STATE CORPORATION COMMISSION

FLOAT EQUIPMENT
JAN 29 1998

ATION DIVISION	@	
	@	
	@	
	@	
	@	

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 done to satisfaction and supervision of owner agent or contractor. I have read & understand the "TERMS AND CONDITIONS" listed on the reverse side.

TAX _____

TOTAL CHARGE _____

DISCOUNT _____ IF PAID IN 30 DAYS

SIGNATURE *[Signature]*

PINTAIL PETROLEUM, LTD.

225 N. MARKET, SUITE 300

WICHITA, KS 67202

Drilling Progress Report

**Rodie #2
NE SW NE
Section 31-17S-24W
Ness County, KS**

**Contractor: Mallard JV
Geologist: Flip Phillips
Elevation: 2407 GR
2412 KB**

10/13/1997 Due to heavy rains Mallard will not move in until 10/15/97.

10/15/1997 MIRT. Spud @ 8:30pm.

10/16/1997 Ran 7 jts 8-5/8" 23&24# (231') Set @ 238' w/ld jt. Cmt w/160 sx 60/40 poz, 2% gel, 3% cc Cmt did circ. Plug down @ 3:20 am.

10/17/1997 Drlg @ 1760' @ 6:30 am

10/18/1997 Drlg @ 2670' @ 6:30 am

10/19/1997 Drlg @ 3247' @ 6:30 am

10/20/1997 Drlg @ 3812' @ 6:30 am

10/21/1997 Drlg @ 4197' @ 6:30 am Should be in Mississippi 10:00 tonight.

10/22/1997 DST #1 @ 4323'-4393' 20-30-55-45

1st Opening - bottom of bucket in 15"

2nd Opening - bottom of bucket in 14" strong blow on both shut-ins

Recovered: 300' gas in pipe

250' clean gassy oil (85% oil, 15% gas) 37 gravity @ 60"

440' mud cut gassy oil (20% mud, 10% gas, 70% oil)

690' Total fluid

IFP 122#-150#

ISIP 1244#

FFP 206#-278#

FSIP 1230#

Hyd 2177#-2143#

Temp 116"

Ran 111 jts 5-1/2" 14# range 3 (4383.89') Set @ 4384' (9' off btm).

2 stage cmt. Btm stage w/500 gal mud flush, 215 sx 50/50 poz mix, 10% salt

1/2% CFR-3. Plug mouse hole & rat hole w/35 sx 50/50 poz. Displace plug w/64

bbls H2O & 42 bbls mud. Ld plug @ 1000#. Release & held. PD @ 10:25pm.

Top stage: Drop dart @ 10:30, broke circ @ 10:40, circ for 15". Mix 190 sx Mid-

Con II. Displace w/H2O. Ld Plug @ 11:25pm w/1300#. Re-pressure to 1500#.

Release & held. Cmt did circ, appx 5 bbls to pit.

TOPS

Anhydrite	1686'	+ 721	(2' low to Rodie #1)
Heebner	3740	-1328	
Lansing/KC	3782	-1370	(2-3' high to #1)
B/KC	4089	-1677	(6' high to #1)
Marmaton	4149	-1737	(6' high)
Pawnee	4200	-1788	(5' high)
Ft. Scott	4280	-1868	(4' high)
Cherokee Sh	4309	-1897	(3' high)
Mississippi	4382	-1970	(1' low to Rodie #1)
RTD	4393	-1981	

Rec'd 10-09-1997

15-135-24037-00-00

SCA? Yes No

Must be approved by the K.C.C. five (5) days prior to commencing well.

ALL BLANKS MUST BE FILLED

Expected Spud Date 13 October 1997
month day year

Spot 140 N & SW of
NE SW NE Sec 31 Twp 17S s, Rg 24 X East West

OPERATOR: License # 5086
Name: PINTAIL OIL & PETROLEUM, LTD.
Address: 225 N. Market, Ste. 300
City/State/Zip: Wichita, KS 67202
Contact Person: Flip Phillips
Phone: 316-263-2243

CONTRACTOR: License #: 4958
Name: Mallard Drilling

Well Drilled For: Well Class: Type Equipment:
X Oil ... Enh Rec X Infield ... X Mud Rotary
... Gas ... Storage ... Pool Ext. ... Air Rotary
... OWM ... Disposal ... Wildcat ... Cable
... Seismic; ... # of Holes ... Other
If OWM: old well information as follows:
Operator: _____
Well Name: _____
Comp. Date: _____ Old Total Depth _____

1510 feet from South North Line of Section
1700 feet from East West Line of Section
IS SECTION X REGULAR IRREGULAR?
(NOTE: Locate well on the Section Plat on Reverse Side)
County: Ness
Lease Name: Sodie Well #: 2
Field Name: KELLMAN SOUTH
Is this a Prorated/Spaced Field? yes X no
Target Formation(s): Mississippian
Nearest lease or unit boundary: 1510
Ground Surface Elevation: 2407 feet MST
Water well within one-quarter mile: yes X no
Public water supply well within one mile: yes X no
Depth to bottom of fresh water: 190'
Depth to bottom of usable water: 960'
Surface Pipe by Alternate: 1 X 2
Length of Surface Pipe Planned to be set: 230
Length of Conductor pipe required: NA
Projected Total Depth: 4400'
Formation at Total Depth: Mississippian
Water Source for Drilling Operations:
... well ... farm pond X other

Directional, Deviated or Horizontal wellbore? yes X no
If yes, true vertical depth: _____
Bottom Hole Location: _____

Will Cores Be Taken? yes X no
If yes, proposed zone: _____

Exp. 4/9/98

AFFIDAVIT

200' Alt. II Req.

The undersigned hereby affirms that the drilling, completion and eventual plugging of this well will comply with K.S.A. 55-101, et. seq.
It is agreed that the following minimum requirements will be met:

Pusher: Carol
SPUD DATE 10-13-97 INIT. SA
LENGTH SURFACE PLANNED 230'
RESERVE PIT STATUS- REMOVE FLUID LINED
after salt sect. bbls. when done bbls.

RATHOLED AHEAD? Y N SIZE HOLE
SURFACE PIPE 8 3/8 @ 238 CONDUCTOR
ANHYDRITE T-1686 B-1721 ELEVATION
TD FORMATION
RAN PIPE 5 1/2 @ 4383 BY TOOL 1725 ALT II NONE
SX 190 SX Y N

Arbuckle Plug @ Ft. W/ SX
Hug./Council @ Ft. W/ SX
Anhydrite Base @ 1720 Ft. W/ 50 SX
1/2 Base Anyh. @ 970 Ft. W/ 80 SX
1/2, 1/2 Plug @ 450 Ft. W/ 40 SX
Bottom Surface @ 260 Ft. W/ 40 SX
40' Plug @ 40 Ft. W/ 10 SX
RAT HOLE CIRC/W 15 SX MOUSE HOLE W/ 10 SX

WATER WELL SX (Irr. Well Pond
TECHNICIAN R. L. DATE 10-17-97 Hauling
TYPE OF CEMENT 60/40 per 60/90 1/4 Flosed
STARTING TIME (AM/PM) DATE
COMPLETION TIME (AM/PM) DATE
CEMENT COMPANY

Line 580 ft
ALT II NONE
Y N