

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

Operator: License # 5086
Name Pintail Petroleum, Ltd.
Address 412 E. Douglas, #1
City/State/Zip Wichita, KS 67202

Purchaser Central States

Operator Contact Person Innes Phillips
Phone 316/263-2243

Contractor: License # 4630
Name Mallard JV, Inc.

Wellsite Geologist Beth Fuhr
Phone 263-2243

Designate Type of Completion
 New Well Re-Entry Workover
 Oil SWD Temp Abd
 Gas Inj Delayed Comp.
 Dry Other (Core, Water Supply etc.)

If OWWO: old well info as follows:
Operator
Well Name
Comp. Date Old Total Depth

WELL HISTORY

Drilling Method:
 Mud Rotary Air Rotary Cable

3-25-89 4-1-89 4-7-89
Spud Date Date Reached TD Completion Date
4118
Total Depth PBTD

294' 8-5/8"
Amount of Surface Pipe Set and Cemented at 303 feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set feet
If alternate 2 completion, cement circulated from feet depth to w/ SX cmt
Cement Company Name Allied Cementing
Invoice # 53636

API NO. 15-145-21,295-0000
County Pawnee
C... SE. SE. Sec. 33. Twp. 23. Rge. 15. East
660 Ft North from Southeast Corner of Section
660 Ft West from Southeast Corner of Section
(Note: Locate well in section plat below)

Lease Name Has Well # 1

Field Name Horn Macksville

Producing Formation Viola

Elevation: Ground 2013 KB 2021

Section Plat

Grid with elevations: 5280, 4950, 4620, 4290, 3960, 3630, 3300, 2970, 2640, 2310, 1980, 1650, 1320, 990, 660, 330

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CONSERVATION DIVISION
Wichita, Kansas

WATER SUPPLY INFORMATION

Disposition of Produced Water: Disposal
Docket # Repressuring

Questions on this portion of the ACO-1 call:
Water Resources Board (913) 296-3717

Source of Water:
Division of Water Resources Permit # T89-116

Groundwater 700 Ft North from Southeast Corner
(Well) 80 Ft West from Southeast Corner of
Sec 33 Twp 23 Rge 15 East West

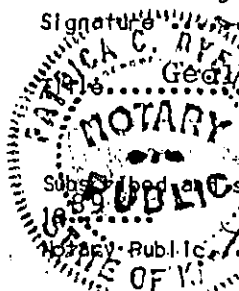
Surface Water Ft North from Southeast Corner
(Stream, pond etc) Ft West from Southeast Corner
Sec Twp Rge East West

Other (explain) (purchased from city, R.W.D. #)

INSTRUCTIONS: This form shall be completed in triplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date of any well. Rule 82-3-130, 82-3-107 and 82-3-106 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 drillers time log shall be attached with this form. 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 Beth A. Fuhr
Geologist Date 7/19/89



Subscribed and sworn to before me this 19th day of July
Patricia C. Byerlee
Date Commission Expires 12/11/89

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

Sec 33 Twp 23 Rge 15 N

Operator Name Pintail Petroleum, Ltd. Lease Name..... HAS Well #..... 1

Sec... 33 ... Twp... 23 ... Rge... 15 ... East West County..... Pawnee

WELL LOG

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
 Samples Sent to Geological Survey Yes No
 Cores Taken Yes No

Formation Description
 Log Sample

Name	Top	Bottom
HEEBNER	3497	
BROWN LIME	3635	
LANSING	3642	3907
VIOLA	3988	4080
SIMPSON SHALE	4080	

DST #1 3780-3840
 Open 23", closed 25", NA (pulled tool)
 RECOVERED: 30' GIP
 30' VSOCM (1% oil)
 60' VSOCM ((5% oil)

IFP 78-97# FFP NA
 ISIP 331# FSIP NA
 HYD 1898-1878# TEMP 104°

DST #2 3930-4086 (MISRUN, tool plugged after 5 minutes into initial opening)

open 22", closed 40", open 10", NA
 RECOVERED: 620' mud w/ SSO on tool
 IFP 282-683# ISIP 1319#
 FFP 1047-1202# FSIP NA
 HYD 2047-2015# TEMP 110°

DST #3 3927 - 4086
 Open 60", closed 45", 45", 45"
 1st open: Gauged 82 MCF/15"
 108 MCF/60"
 2nd open: Stabilized @ 118 MCF/15"
 RECOVERED: 280' mud
 IFP 99-99# ISIP 1298#
 FFP 88-99# FSIP 1287#
 HYD 1914-1868# TEMP 116°

CASING RECORD <input 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"	23#	303'	60/40poz	175	3%cc, 2%gel
Production	7-7/8"	4 1/2"	10.5#	4112'	40/40poz	150	18% salt 3/4 FRA
PERFORATION RECORD				Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)			
Shots Per Foot	Specify Footage of Each Interval Perforated			Depth			
.....	4074, 4072, 4064, 4062, 4053, 4050, 4048, 4035, 4022, 4019, 4016, 4013, 3998, 3995, 3992, 3989			Acidized w/ 2000 gals 7 1/2% MCA			3998-4074
.....			Frac w/ 999 bbls 30# cross-link, 60,000# 20/40 sand		
TUBING RECORD				Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Size		Set At		Packer at			
2"		3967'					
Date of First Production		Producing Method					
		<input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input checked="" type="checkbox"/> Gas Lift <input type="checkbox"/> Other (explain).....					
Estimated Production Per 24 Hours		Oil	Gas	Water	Gas-Oil Ratio	Gravity	
.....		0	100 MCF	0			
		Bbls	MCF	Bbls	CFPB		

METHOD OF COMPLETION Vented Sold Used on Lease Open Hole Perforation Other (Specify) 3989-4074
 Dually Completed Commingled

MALLARD J.V., INC.
P.O. BOX 1009
McPHERSON, KANSAS 67460-1009

DRILLERS' LOG

OPERATOR: Pintail Petroleum, Ltd.
412 E. Douglas, Suite One
Wichita, KS 67202

WELL: HAS #1
API#: 15-145-21,295

COMMENCED: March 25, 1989

LOCATION: C SE SE
660 Ft. FSL, 660 Ft. FEL
SEC. 33 TWP. 23 S RGE. 15 W

COMPLETED: April 1, 1989

TOTAL DEPTH: 4118 Ft.

COUNTY: Pawnee

ELEVATION: 2013 Ft. G.L.
2021 Ft. K.B.

REMARKS

Cut 12 1/4" hole to 308' and ran 8 joints 8-5/8" x 20# x 294.03' surface casing. Set at 303.53' and cemented with 175 sacks 60/40 Pozmix, 3% cc, 2% gel. Cement did circulate. P.D. at 10:15 p.m. 3-25-89.

Ran 3 DSTs and electric log.

Ran 105 joints 4 1/2" x 10.5# x 4104.16' casing. Set at 4112' and cemented with 150 sacks 50/50 Pozmix, 18% salt, and 3/4 of 1% CFR-2. P.D. at 4:15 p.m. with 1100#. Released and held, 4-1-89.

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STATE CORPORATION COMMISSION

JUL 20 1989

CONSERVATION DIVISION
Wichita, Kansas

STATE OF KANSAS }
COUNTY OF MCPHERSON) SS:

I, BRYAN HESS of MALLARD JV, INC. do hereby certify that this is a true and correct copy of the log of the HAS #1 well as reflected by the files of Mallard JV, Inc.

Bryan Hess
Bryan Hess, General Manager

Subscribed and sworn to before me this 10th day of April, 1989.

Don J. Reichenberger
Notary Public

11-15-89
My Commission Expires

