

CONFIDENTIAL

FORM MUST BE TYPED

SIDE ONE

ORIGINAL

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

API NO. 15-129-21,478-0000

Operator: License # 5003

County Morton

Name: McCoy Petroleum Corporation

80'S of C - NW - NE Sec. 34 Twp. 32S Rge. 42W X E

Address 3017 N. Cypress Street

4546 Feet from (S) Line of Section

Wichita, KS

1980 Feet from (E) Line of Section

City/State/Zip 67226-4003

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

Purchaser: Anadarko Petroleum Corp.

Lease Name RATZLAFF "A" Well # 1-34

Operator Contact Person: Steve O'Neill

Field Name Wildcat

Phone (316) 636-2737

Producing Formation Morrow

Contractor: Name: Sweetman Drilling, Inc.

Elevation: Ground 3495' XB 3508'

License: 5658

Total Depth 5330' PBTD 5258'

Wellsite Geologist: David Goldak

Amount of Surface Pipe Set and Cemented at 1434 Feet

Designate Type of Completion

Multiple Stage Cementing Collar Used? Yes X No

New Well Re-Entry Workover

If yes, show depth set _____ Feet

Oil SWD SLOW Temp. Abd.

If Alternate II completion, cement circulated from _____

Gas ENHR SLOW Temp. Abd.

feet depth to _____ w/ _____ sx cnt.

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

Drilling Fluid Management Plan ALT 1 JH 6-12-98
(Data must be collected from the Reserve Pit)

If Workover:

Operator: _____

Chloride content 200 ppm Fluid volume 1580 bbls

Well Name: _____

Dewatering method used Evaporation KCC

Comp. Date _____ Old Test Depth _____

Location of fluid disposal if hauled offsite: _____

Deepening Re-perf. Conv. to Inj/SWD

Operator Name _____ CONFIDENTIAL

Plug Back PBTD

Lease Name _____ License No. _____

Commingled Docket No. _____

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

Dual Completion Docket No. _____

Other (SWD or Inj?) Docket No. _____

1/16/97 1/28/97 2/11/97

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 Brent B. Reinhardt

Title Regulatory Geologist Date 3/18/97

Subscribed and sworn to before me this 18th day of March, 1997.

Notary Public Lori R. Koehn **RELEASED**

Date Commission Expires October 5, 1999

K.C.C. OFFICE USE ONLY			
F	<input checked="" type="checkbox"/>	Letter of Confidentiality Attached	
C	<input checked="" type="checkbox"/>	Wireline Log Received	
C	<input checked="" type="checkbox"/>	Geologist Report Received	
Distribution			
<input 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)

LORI R. KOEHN
NOTARY PUBLIC
STATE OF KANSAS
My Appt. Exp. 10-5-99

APR 09 1999

Form ACO-1 (7-91)

FROM CONFIDENTIAL

Operator Name McCoy Petroleum Corporation

Lease Name RATZLAFF "A"

Well # 1-34

Sec. 34 Twp. 32S Rge. 34W East West

County Morton

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.)

Log Formation (Top), Depth and Datum Sample Datum

Name	Top	Datum
GLORIETTA SAND	+985	
See Attached Log Tops		
ANHYDRITE	1030 1030	
HEEBNER	3332	
STARK SHALE	3810	
MARMATON	4020	
MORROW SHALE	4540	
MORROW "G"	4902	
KEYES SAND	5023	
CHESTER	5057	
ST. GENEVIEVE	5198	
ST. LOUIS	5257	

List All E.Logs Run: Schlumberger, Inc.
 Comp. Neutron, Litho-Density, Array
 Induction, Micro-Resistivity, Microlog,
 Microlog w/Gamma Ray, Cement Bond, Hogs.
 See Attached DST Reports

CASING RECORD <input checked="" 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"	24#	1434'	Mid-Con	475	6#Gil, 3%CC
Production	7 7/8"	4 1/2"	10.5#	5328'	10/10 Self Stress	200	2%CC, .5%D-60

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 TO				
<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	4952-4956, 4933-4940 Morrow Sand	AC:500gals, 10%MSA, SWB:1.67BW w/ 67MCFPD. CIBP @ 4948'	4940'
4	4906-4913 Morrow	AC:1000gals, 7.5%Fe, SWB:2.0BWPB w/ 177MCFPD on 9th Hour	4913'

TUBING RECORD		Size	Set At	Packer At	Liner Run
		2 3/8"	4886'	4884'	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Inj. Waiting for Pipeline Connection			Producing Method <input checked="" type="checkbox"/> Flowing <input 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
		300	25		

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 4933-4940'
4906-4913'
Morrow

McCoy Petroleum Corporation
Ratzlaff 'A' #1-34
1980' FEL & 740' FNL
Section 34-32S-42W
Morton County, Kansas
API #15-129-21,478
Spud 1-17-97

320,000 CFG	30 min
337,000 CFG	40 min
347,000 CFG	50 min
352,000 CFG	60 min
357,000 CFG	70 min
362,000 CFG	80 min
367,000 CFG	90 min

Recovered: 160' Slightly Gas Cut Mud w/Scum Of Oil
95' Slightly Oil and Gas Cut Watery Mud (3% Oil, 10% Gas, 25% Wtr, 62% Mud)
365' Slightly Oil and Mud Cut Water (3% Oil, 6%-Mud, 91% Wtr)
(Chlorides 24,000 PPM)
FP: 126-216 / 155-348#
SIP: 1103-1088#

ELECTRIC LOG TOPS:

Glorietta Sand*	985	(+2523)
Base Glorietta*	1015	(+2493)
Cimmaron Anhy.*	1030	(+2478)
Stone Corral Anhy.*	1427	(+2081)
Heebner Sh.	3332	(+176)
Stark Shale	3810	(-302)
Marmaton	4020	(-512)
Morrow Sh.	4540	(-1032)
Lwr. Mrw. 'G' Sand	4902	(-1394)
Keyes Sand	5023	(-1515)
Chester	5057	(-1549)
St. Genevieve	5198	(-1690)
St. Louis Ø	5257	(-1749)
RTD	5330	(-1822)
LTD	5308	(-1800) (fill)

*Drillers tops

CONFIDENTIAL

ORIGINAL

McCoy Petroleum Corporation
Ratzlaff 'A' #1-34
1980' FEL & 740' FNL
Section 34-32S-42W
Morton County, Kansas
API #15-129-21,478
Spud 1-16-97

RELEASED

APR 09 1999

FROM CONFIDENTIAL

ACO-1 Continued

Drill Stem Tests:

DST #1 4850'- 4920' (Lower Morrow 'G' Sand)

Open 30", SI 60", Open 90", SI 120"

1st Open: Slid tool 20' to bottom

Weak to strong blow OBB in 3 min

2nd Open: Strong blow OBB in 1 min

GTS 20 min into flow period

Gauged:	4,500 CFG	after	25 min thru 1/4" choke
	5,300 CFG		30 min
	5,900 CFG		40 min
	5,900 CFG		50 min
	5,900 CFG		60 min
	5,600 CFG		70 min
	5,600 CFG		80 min
	Taking sample		90 min

Recovery: 285' Slightly Gas Cut Mud

180' Heavy Water Cut Mud (40% Wtr, 60% Mud)

(Chlorides 17,000 PPM - Mud System Chlorides 1,000 PPM)

FP: 152-186 / 181-243#

SIP: 942-939#

DST #2 4915'- 4970' (Lower Morrow Sand)

Open 30", SI 60", Open 90", SI 120"

1st Open: GTS 7 min

Gauged:	129,000 CFG	after	15 min thru 1/2" choke
	177,000 CFG		20 min
	205,000 CFG		25 min
	222,000 CFG		30 min
2nd Open:	253,000 CFG		10 min
	306,000 CFG		20 min

RECEIVED
KANSAS CORPORATION COMMISSION

MAR 18 1997

CONSERVATION DIVISION
WICHITA, KS

KCC

MAR 16

CONFIDENTIAL



JOB SUMMARY

HALLIBURTON DIVISION

HES

HALLIBURTON LOCATION

LIBERAL

BILLED ON TICKET NO.

185152

WELL DATA

FIELD _____ SEC. 34 TWP. 32S RING. 42W COUNTY. MORTON STATE KS

FORMATION NAME _____ TYPE _____
 FORMATION THICKNESS _____ FROM _____ TO _____
 INITIAL PROD: OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD
 PRESENT PROD: OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD
 COMPLETION DATE _____ MUD TYPE _____ MUD WT. _____
 PACKER TYPE _____ SET AT _____
 BOTTOM HOLE TEMP. _____ PRESSURE _____
 MISC. DATA _____ TOTAL DEPTH _____

	NEW UEG#	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	N	24#	8 7/8	K13	1434	
LINER						
TUBING						
PERFORATIONS						SHOTS/FT.
PERFORATIONS						
PERFORATIONS						

CONFIDENTIAL ORIGINAL

JOB DATA

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>1-17-97</u>	DATE <u>1-17-97</u>	DATE <u>1-17-97</u>	DATE <u>1-17-97</u>
TIME <u>1200</u>	TIME <u>1530</u>	TIME <u>2018</u>	TIME _____

TOOLS AND ACCESSORIES			
TYPE AND SIZE	QTY.	MAKE	
FLOAT COMPART <u>INSET 8 7/8"</u>	<u>1</u>	<u>Hewco</u>	
FLOAT SHOE <u>Fill Tube</u>	<u>1</u>	<u>"</u>	
GUIDE SHOE <u>Slip on</u>	<u>1</u>	<u>"</u>	
CENTRALIZERS <u>Reg</u>	<u>4</u>	<u>"</u>	
BOTTOM PLUG <u>5W</u>	<u>1</u>	<u>"</u>	
TOP PLUG <u>5W</u>	<u>1</u>	<u>"</u>	
HEAD			
PACKER			
OTHER			

PERSONNEL AND SERVICE UNITS		
NAME	UNIT NO. & TYPE	LOCATION
<u>T. POYER</u>	<u>420042</u>	<u>LIBERAL</u>
<u>48120</u>	<u>P.U</u>	<u>"</u>
<u>S. TATE</u>	<u>52823</u>	<u>"</u>
<u>E0568</u>	<u>75374</u>	<u>"</u>
<u>L. PATTERSON</u>	<u>4115</u>	<u>HUGOTON</u>
<u>D. MORGAN</u>	<u>75237</u>	<u>"</u>
<u>4461</u>	<u>7649</u>	<u>"</u>
<u>RLU</u>		

MATERIALS

TREAT. FLUID _____ DENSITY _____ LB/GAL. API _____
 DISPL. FLUID _____ DENSITY _____ LB/GAL. API _____
 PROP. TYPE _____ SIZE _____ LB. _____
 PROP. TYPE _____ SIZE _____ LB. _____
 ACID TYPE _____ GAL. _____ % _____
 ACID TYPE _____ GAL. _____ % _____
 ACID TYPE _____ GAL. _____ % _____
 SURFACTANT TYPE _____ GAL. _____ IN _____
 NE AGENT TYPE _____ GAL. _____ IN _____
 FLUID LOSS ADD. TYPE _____ GAL.-LB. _____ IN _____
 GELLING AGENT TYPE _____ GAL.-LB. _____ IN _____
 FRIC. RED. AGENT TYPE _____ GAL.-LB. _____ IN _____
 BREAKER TYPE _____ GAL.-LB. _____ IN _____
 BLOCKING AGENT TYPE _____ GAL.-LB. _____
 PERFPAC BALLS TYPE _____ QTY. _____
 OTHER _____
 OTHER _____

MAR 16 RECEIVED
 KANSAS CORPORATION COMMISSION
 DEPARTMENT 5061
 DESCRIPTION OF JOB OIO MAR 18 1997
 CONSERVATION DIVISION
 WICHITA, KS
 JOB DONE THRU: TUBING CASING ANNULUS TBG./ANN.
 CUSTOMER REPRESENTATIVE X Brad Boy
 HALLIBURTON OPERATOR T. Poyer COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SCK.	MIXED LBS./GAL.
<u>1</u>	<u>125</u>	<u>Pt micaw</u>		<u>B</u>	<u>3% CC, 1# FLO, 6# Gilsomite</u>	<u>3.28</u>	<u>16.1</u>
<u>2</u>	<u>150</u>	<u>"</u>		<u>"</u>	<u>3% CC, 1/4# FLO,</u>	<u>3.2</u>	<u>16.1</u>
<u>3</u>	<u>200</u>	<u>Pt</u>		<u>"</u>	<u>2% CC, 1/4# FLO,</u>	<u>1.32</u>	<u>14.8</u>

PRESSURES IN PSI SUMMARY VOLUMES

CIRCULATING _____ DISPLACEMENT _____ PRESFLUSH: BBL.-GAL. _____ TYPE _____
 BREAKDOWN _____ MAXIMUM _____ LOAD & BKDN: BBL.-GAL. _____ PAD: BBL.-GAL. _____
 AVERAGE _____ FRACTURE GRADIENT _____ TREATMENT: BBL.-GAL. _____ DISPL. (BBL.) 89
 SHUT-IN: INSTANT _____ 5-MIN _____ 15-MIN. _____ CEMENT SLURRY: BBL.-GAL. 73.04 LEAD, 85.5 LEAD, 47 BBL TAIL
 HYDRAULIC HORSEPOWER _____ TOTAL VOLUME: BBL.-GAL. _____
 ORDERED _____ AVAILABLE _____ USED _____ REMARKS _____
 AVERAGE RATES IN BPM _____
 TREATING _____ DISPL. _____ OVERALL _____
 CEMENT LEFT IN PIPE _____
 FEET 37.8 REASON Shoe Joint

CUSTOMER Mccoy
 VET
 LEASE KATZLAFF A
 WELL NO. 1-34
 JOB TYPE OIO
 DATE 1-17-97

CUSTOMER **McCoy** WELL NO. **1-34** LEASE **Ratzliff** JOB TYPE **oil** TICKET NO. **185152**

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1700							Called out - Requested "1600" CST
	1530							On Loc - cire on Bottom
	1610							T.O.H
	1755							Run csq @ 8 5/8" 24
	1945							On Bottom @ 1434 ft
	1950							Hook to cire.
	2018							Hook up to cmt.
	2023	0-1	112		✓	↑ 0/200		Drop Bottom plug
	2024	0-6 1/2	13		✓	↑ 0/200		Pump lead cmt.
	2035	6 1/2-6	85		✓	100		Pump lead cmt.
	2050	6-5	47		✓	100		Pump tail cmt.
	2059	5-0				↓ 100/0		Shut down - Drop plug
	2100	0-5	89		✓	0/100		Pump Displacement
	2110	5-0			✓	100/0		Shut down - 40 bbls out
	2115	0-2			✓	0/100		Pump Displ.
	2125	2-0			✓	100/0		Shut down - 60 bbls out
	2130	0-3			✓	0/400		Pump Displ.
	2138	3-0			✓	400		Shut Down - 88 bbls out
	2139				✓	400/0		Release Press. - Float held
								Cement to Surface:
								Approx. 80 bbls or 137 sks

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KANSAS CORPORATION COMMISSION
MAR 18 1997
CONSERVATION DIVISION
WICHITA, KS

RELEASED

APR 09 1999

FROM CONFIDENTIAL

Thank you!

Tom & Sonny & crew