1-34-9W

KANSAS DRILLERS LOG

State Geological Survey
WICHITA, BRANCH

IMPORTANT
Kans. Geo. Survey request samples on this well.

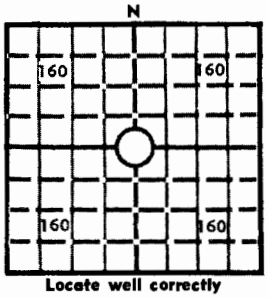
S. 1 T. 34 R. 9 E W

API No. 15 — 077 — 20,216
County Number

Loc. W½ SE SE

County Harper

640 Acres
N



Locate well correctly

Operator
McCoy Petroleum & Petroleum, Inc.

Address 502 Union Center
Wichita, Kansas

Well No. #1

Lease Name Gates

Footage Location
feet from (N) (S) line feet from (E) (W) line

Principal Contractor

Geologist

Spud Date

Total Depth

P.B.T.D.

Date Completed

Oil Purchaser

Elev.: Gr.

DF KB

CASING RECORD

Report of all strings set — surface, intermediate, production, etc.

Purpose of string	Size hole drilled	Size casing set (in O.D.)	Weight lbs/ft.	Setting depth	Type cement	Sacks	Type and percent additives

LINER RECORD

Top, ft.	Bottom, ft.	Sacks cement

TUBING RECORD

Size	Setting depth	Packer set at

PERFORATION RECORD

Shots per ft.	Size & type	Depth interval

ACID, FRACTURE, SHOT, CEMENT SQUEEZE RECORD

Amount and kind of material used	Depth interval treated

INITIAL PRODUCTION

Date of first production

Producing method (flowing, pumping, gas lift, etc.)

RATE OF PRODUCTION PER 24 HOURS	Oil	Gas	Water	Gas-oil ratio
	bbls.	MCF	bbls.	CFPB

Disposition of gas (vented, used on lease or sold)

Producing interval(s)

INSTRUCTIONS: As provided in KCC Rule 82-2-125, within 90 days after completion of a well, one completed copy of this Drillers Log shall be transmitted to the State Geological Survey of Kansas, 4150 Monroe Street, Wichita, Kansas 67209. Copies of this form are available from the Conservation Division, State Corporation Commission, 3830 So. Meridian (P.O. Box 17027), Wichita, Kansas 66217. Phone AC 316-522-2206. If confidential custody is desired, please note Rule 82-2-125. Drillers Logs will be on open file in the Oil and Gas Division, State Geological Survey of Kansas, Lawrence, Kansas 66044.

Operator

DESIGNATE TYPE OF COMP.: OIL, GAS, DRY HOLE, SWDW, ETC.:

Well No. | Lease Name

S_____ T_____ R_____ E W

WELL LOG

Show all important zones of porosity and contents thereof; cored intervals, and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries.

SHOW GEOLOGICAL MARKERS, LOGS RUN, OR OTHER DESCRIPTIVE INFORMATION.

FORMATION DESCRIPTION, CONTENTS, ETC.	TOP	BOTTOM	NAME	DEPTH

USE ADDITIONAL SHEETS, IF NECESSARY, TO COMPLETE WELL RECORD.

Date Received

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STATE GEOLOGICAL SURVEY OF

Signature

Title

Date

1-34-9W

McCOY PETROLEUM COMPANY 502 UNION CENTER BUILDING WICHITA, KANSAS 67202

PHONE (316) 265-1841

API#15-077-20,216

DAILY REPORT

McCoy Petroleum Company
#1 Gates
W/2 SE SE Sec. 1-34S-9W
Harper County, Kansas

Contractor: Sweetman Drilling, Inc.
Geologist:

Elevations: 1331 GL 1338 DF 1341 KB

L

9/30/73 Moved in Rotary Tools. Rig up.

10/ 1/73 Set 8-5/8" surface pipe @ 255' w/200 sx common cement, 2% gel, 3% calcium chloride. Plug down @ 5:30 A.M. W.O.C.

10/ 2/73 Drilling @ 1445'.

10/ 3/73 Drilling @ 2094'.

10/ 4/73 Drilling @ 2705'.

10/ 5/73 Drilling @ 3198'.

10/ 6/73 Drilling @ 3618'.

10/ 7/73 Drilling @ 4159'.

SAMPLE TOPS

Heebner	3433(-2092)
Douglas Sand	3487(-2146)
Stalnaker Sand	3778(-2437)
Kansas City	4042(-2701)
Stark Shale	4185(-2844)
Cherokee	4449(-3108)
Mississippian	4577(-3236)
Total Depth	4602(-3261)

DST #1 4182-4230 (Swope)
Open 30", S.I. 45", Open 30", S.I. 45",
Weak blow, died in 25 minutes,
Recovered 25' mud w/scum of oil
IBHP 1186# FBHP 737# IFP 31# FFP 46#

10/ 8/73 Drilling @ 4260'.

10/ 9/73 Drilling @ 4531'.

DST #2 4580-4602
Open 30", S.I. 45", Open 120", S.I. 120",
Gas to surface in 9 minutes,
Gauge 73,100CFG/15" on 1st open
85,900CFG/30" on 1st open
Gauge 77,500CFG/15" on 2nd open
77,500CFG/25" on 2nd open
81,600CFG/35" on 2nd open
85,900CFG/45", 55" & 65" on 2nd open
89,800CFG/75", 85" & 95" on 2nd open
93,600CFG/105", 115, & 120" on 2nd open
Recovered 45' gas cut mud,
IBHP 1851# FBHP 1851# IFP 48# FFP 48#.



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#1 Gates
W/2 SE SE Sec. 1-34S-9W
Harper County, Kansas

10/10/73 Logging @ 4602'.

DRESSER-ATLAS LOG TOPS

Heebner	3432(-2091)
Douglas Sand	3486(-2145)
Iatan	3738(-2397)
Stalnaker Sand	3780(-2439)
Kansas City	4040(-2699)
Stark Shale	4185(-2844)
Base Kansas City	4268(-2927)
Cherokee Shale	4446(-3105)
Mississippian	4574(-3233)
Total Depth	4601(-3260)

10/11/73 Set new 4½", 9.5# K-55, R-2 production casing at 4580 feet. (21' open hole) Allied cemented with 175 sacks common cement, 10% salt. Use 10 barrels salt flush ahead of cement. Plug down at 11:50 A.M.

10/12/73 Moving out Rotary Tools. Waiting on cable tools.

10/16/73 Move in Hayes Well Service Double Drum Completion Unit. Rig up.

10/17/73 Run 2-3/8" tubing with rotary bit. Drill plug, float, cement and shoe. Clean out open hole to RTD. Circulate clean w/KCL water. Round trip tubing to remove bit. 146 joints tubing in hole. Seating nipple one joint up from bottom. Bottom open ended. Total tubing tally = 4570.03'. Shut in for night.

10/18/73 Fluid 200' down. Swab 35 barrels and tubing plugged. Load tubing and pressure up to 2000# with pump truck. Still plugged. Release pressure. Pull one joint tubing and work up and down. Plug came free. Lower tubing to 3 feet off bottom to spot acid. Circulate down tubing and load hole. Acid Engineers spotted 28% acid to bottom down tubing. Pull tubing back up to 18' off bottom. Acidize down tubing with 1500 gallons 28% HCL w/AS-1 followed by 750 gallons 5% HCL w/CSA Clay stabalizer. Maximum treating pressure 600# (1200# tubing). Average injection rate 3.7 BPM. Finish at 500# (1100# tubing) @ 4 BPM. Average treating pressure 500# (1100# tubing). ISIP 250# On vacuum 18 minutes.

Rig up to swab. Kick off on 2nd pull @ 1:30 P.M. Put through separator on 40/64" choke at 2:30 P.M. Gauge as follows:

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#1 Gates
W/2 SE SE Sec. 1-34S-9W
Harper County, Kansas

Time	Gas Gauge	Tubing Press.	Csg. Press.	Fluid	Remarks
3:00	893,000 CFG	200#	175#	8.35 Bbl.)	
3:30	1,462,000 CFG	200#	280#	16.70)	25.05 BFPH
4:00	1,146,000 CFG	160#	330#	8.35 Bbl.)	
4:30	1,023,000 CFG	150#	400#	11.69)	20.04 BFPH
5:00	1,023,000 CFG	140#	480#	4.11 Bbl.)	
5:30	1,023,000 CFG	100#	520#	8.35)	12.46 BFPH
6:00	1,346,000 CFG	120#	520#	6.68 Bbl.)	
6:30	1,064,000 CFG	100#	440#	5.01)	11.69 BFPH

Shut in @ 6:30 P.M. Fluid is heavy tight oil emulsion. Estimated still short about 30 barrels of load.

10/19/73 SICP 1530# SITP 1350#

Time	Choke	Gas Gauge	TP	CP	Barrels Fluid		Remarks
9:00	14/64"						Open Well
9:30	14/64"	1,421,000 CFG	1000#	1330#	0)		
10:00	14/64"	893,000 CFG	900#	1200#	3.34)	3.34	
10:30	14/64"	1,023,000 CFG	840#	1200#	3.34)		Open to 20/64"
11:00	20/64"	1,064,000 CFG	540#	930#	3.34)	6.68	Open to 32/64"
11:30	32/64"	1,656,000 CFG	260#	660#	8.35)		25% oil
12:00	32/64"	1,146,000 CFG	200#	590#	3.34)	11.69	30% oil
12:30	32/64"	1,023,000 CFG	160#	560#	3.34)		47% oil
1:00	32/64"	937,000 CFG	140#	540#	3.34)	6.68	47% oil (3.14 BOPH & 3.54 BWPH)
1:30	32/64"	893,000 CFG	140#	515#	3.34)		50% oil
2:00	32/64"	847,000 CFG	135#	500#	3.34)	6.68	(3.34 BOPH & 3.34 BWPH)
2:30	32/64"	825,000 CFG	130#	490#	3.34)		50% oil
3:00	32/64"	777,000 CFG	125#	480#	3.34)	6.68	(3.34 BOPH & 3.34 BWPH)
3:30	32/64"	754,000 CFG	120#	475#	3.34)		50% oil
4:00	64/64"	802,000 CFG	80#	420#	2.50)	5.84	(2.92 BOPH & 2.92 BWPH)

Shut in @ 4:00 47.59 bbl. Total Fluid

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#1 Gates
W/2 SE SE Sec. 1 34S-9W
Harper County, Kansas

10/19/73 (cont'd) Total fluid produced into tank in 11 hours = 117 Bbl. + estimated total to pits = 30 Bbl. Total oil = 46 BO (46 BO + 71 BW)
Probably still short of load 20 bbl. (Tank canned 73 bbl. oil which breaks out 63% oil or 46 BO).
Water still appears to be acid water.
Last 4 hours average 3.18 BOPH + 3.28 BWPH w/857,000 CFG.

10/20/73 SICP 1480# SITP 1460#.

10/21/73 SICP 1560# SITP 1540#.

10/23/73 SICP 1600# SITP 1600#.

Time	Choke	Gas Gauge	TP	CP	Barrels Fluid	Remarks
11:00			1600#	1600#		Open well
11:30	11/64"	319,000 CFG	1410#	1540#	0	
12:00	14/64"	526,000 CFG	1105#	1440#	0	
12:30	16/64"	796,000 CFG	900#	1250#	2.50	
1:00	17/64"	1,233,000 CFG	765#	1065#	4.18	
1:30	23/64"	1,421,000 CFG	330#	860#	5.01	
						Choke back @ 1:30
2:30	16/64"	802,000 CFG	620#	1000#	3.34	
3:30	16/64"	893,000 CFG	660#	980#	5.85	Shut in @ 3:30

Build well grade and tank grade. Will set tanks and production equipment last of this week. Should have on production next week.

Calculated Open Flow: 1,650,000 CFGPD SICP 1600# SITP 1600#

