



Natural Gas • Crude Oil
Exploration & Production

McCOY PETROLEUM COMPANY

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DAILY REPORT

McCoy Petroleum Company
#1 McMoran
C SW SW Sec. 9-35S-16W
Yellowstone Pool
Comanche County, Kansas

Contractor: Sweetman Drilling, Inc.
Geologist: Robert E. McCann

Elevations: 1899 KB 1896 DF 1889 GL

12-14-78 Laughlin-Simmons staked location and ran elevation.
12-18-78 Leveled location and dug rotary pits.
12-20-78 Move in Sweetman Drilling, Inc. rotary tools. Spud @ 6:30 P.M.
Drill 15" hole to 365'. Set used 10-3/4" OD, 40#, R-3 surface
casing @ 361' with 300 sacks common cement, 2% gel, 3% calcium
chloride. Cement circulated. P.D. @ 5:15 A.M. 12-21-78.
12-21-78 W.O.C. @ 361'.
12-22-78 Drilling @ 1830'.
12-23-78 Shutdown @ 2831' for Christmas vacation. Will resume drilling
on 01-02-79.
01-02-79 Resume drilling operations @ 2831'.
01-03-79 Drilling @ 3331'.
01-04-79 Drilling @ 3993'.
01-05-79 Bit trip @ 4603'.
01-06-79 Drilling @ 4905'.

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SAMPLE TOPS

Heebner	4380(-2481)
Lansing	4576(-2677)
Swope porosity	4980(-3081)
Hertha porosity	5026(-3127)
Marmaton	5106(-3207)
Pawnee	5196(-3297)
Cherokee	5238(-3339)
Mississippian	5291(-3392)
Viola	5741(-3842)
Rotary Total Depth	5785(-3886)

01-07-79 Taking DST #1 @ 5000'.

DST #1 4924-5000' (Swope)
Open 30", S.I. 45", Open 60", S.I. 60"
Strong blow on both flow periods.
No gas to surface.
Recovered 250 feet of mud.
ISIP 1510# FSIP 1280#
FP 84-95# 116-137#

01-08-79 Taking DST #2 @ 5050'.

DST #2 5012-5050' (Hertha)
Open 30", S.I. 45", Open 60", S.I. 60"
Gas to surface in 24 minutes, T.S.T.M.
Recovered 190 feet of gas cut mud.
ISIP 1374# FSIP 1123#
FP 84-73# 116-95#

01-09-79 Drilling @ 5201'.

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01-10-79 Taking DST #3 @ 5340'.

DST #3 5272-5340' (Mississippian)
Open 30", S.I. 45", Open 60", S.I. 90"
Strong blow. Gas to surface in 6 minutes of 2nd
flow period.
Gauge 6,550 CFG/10"
8,560 CFG/20"
9,200 CFG/30"
17,200 CFG/40"
15,400 CFG/50"
14,100 CFG/60"
Recovered 90 feet of gas cut mud.
ISIP 1584# FSIP 1899#
FP 349-508# 487-370#
(Plugging action throughout test.)

01-11-79 Drilling @ 5507'.

01-12-79 Drilling @ 5711'.

01-13-79 RTD 5785'.

Ran Schlumberger Dual Induction - Laterolog and Compensated
Neutron - Formation Density - Gamma Ray - Caliper logs.
Could not get production casing to location because of
snow storm. Shutdown and wait.

ELECTRIC LOG TOPS

Chase	2486(- 587)
Wabaunsee	3404(-1505)
Tarkio	3554(-1655)
Howard	3760(-1861)
Elgin Zone	4158(-2259)
Elgin Sand	4220(-2321)
Heebner	4382(-2483)
Lansing	4576(-2677)
Swope	4980(-3081)
Hertha	5026(-3127)
Marmaton	5106(-3207)
Pawnee	5196(-3297)
Cherokee	5238(-3339)
Mississippian	5286(-3387)
Cowley	5356(-3467)
Viola	5747(-3848)
LTD	5787(-3888)

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- 01-14-79 Run 46 joints (1506.67') of used 4-1/2" OD, 10.5#, K-55, Smls. Range 2 casing and 107 joints (4265.70') of new Kawasaki 4-1/2" OD, 10.5#, K-55 Smls. Range 3 casing. Set at 5781 feet. Cement with 200 sacks common cement with 1/4#/sack of celloseal. Centralizers on collars @ 5745, 5353, 5221, 5059 and 4993 feet. Shoe joint is 33.85 feet long. Insert float in collar @ 5745.15. P.D. @ 5:15 A.M. on 01-15-79.
- 01-15-79 W.O.C.
- 02-05-79 Move in Hayes Well Service completion unit. Swab casing dry down to plug at approximately 5740 feet.
- 02-06-79 Rig up Dresser-Atlas. Run Gamma-Ray CCL log from PBTD of 5742' up to 4550'. Perforate Mississippian from 5292' to 5312' (Schlumberger measurements) with 2 shots per foot using Jumbo Jets. Run new 2-3/8" EUE, 4.7#, J-55 tubing as follows: 11.97' open end mud anchor, 1.10' seating nipple and 171 joints at tubing. Overall tally = 5272.38'. Swing @ 5279.38' KB. Make up well head. Rig flow line to pit. Venting gas T.S.T.M. Leave flowing overnight.
- 02-07-79 Venting estimated 15 MCFG. Lower tubing one joint to circulate acid across perforations. Rig up Halliburton to acidize. Load hole with KCL water. Spot acid across perforations. Pull one joint of tubing. Tubing now @ 5279.38 KB. Acidize with 1500 gallons 15% MCA as follows: Pressure up in steps to 800#. Start feeding 1/4 BPM @ 800#. Increase rate to 5 BPM. Feed 5 BPM @ 1000# increasing to 1100#. Drop 40 balls in last 500 gallons. Ball action to 1300# breaking back to 1200#. ISIP 250#, drop to 100# in 5 minutes, still had slight pressure in 30 minutes. Start swabbing back. Total load = 114 barrels. Test as follows:

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1st hour	Swab 31 BLWPH	(-83 BL)		
2nd hour	Swab 20 BLWPH	(-63 BL)	Show of gas	
3rd hour	Swab 15 BLWPH	(-48 BL)	Show of gas	CP 25#
4th hour	Swab 4 BLWPH	(-44 BL)	Good gas blow	CP 70#
5th hour	Swab 5 BLWPH	(-39 BL)	Good gas blow	CP 120#
6th hour	Swab 3 BLWPH	(-36 BL)	Estimated 100 MCFG	CP 170#

Shut-in for night.

02-08-79 SICP 740# SITP 590# Opened well. Kicked off. Unloaded 6 BLW (-30 BL) in 1st hour and quit bringing fluid. After 5 hours well venting 78,000 CFGPD. Rig up Halliburton to Frac. Treat down tubing and annulus with 30,000 gallons Versifrac fluid and 30,000# of 20-40 sand as follows: Start in formation with pad @ 1300# @ 13 BPM. Increase rate to 20 BPM. Start sand @ 1/4#/gal. and finish @ 1-1/2#/gal. Maximum pressure 2000#, minimum pressure 1510# at start of flush. Final pressure 1550#. ISIP 200#, 5" pressure drop to 100#, still holding 100# in 45". Shut-in for night. Total load = 809 barrels.

02-09-79 Well on vacuum. Prepare to swab tubing. Drop swab cup and mandrel down tubing. Fish for 6 hours. Recovered fish. Start swabbing @ 2:30 P.M. Fluid 100' down. Well had unloaded 1 barrel while fishing. Test as follows:

<u>Time</u>	<u>BFPH</u>	<u>Total</u>	<u>(+-Load)</u>	<u>Remarks</u>
2:30	.			Fluid 100' down.
3:30	46 BF	46 bbl.	(-763 BL)	Fluid 500' down.
4:30	39 BF	85 bbl.	(-724 BL)	Fluid 700' down.
5:30	32 BF	117 bbl.	(-692 BL)	Fluid 800' down.
6:00	12 BF	129 bbl.	(-680 BL)	Fluid 800' down.

Shut-in for night.

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02-10-79 SICP 40# SITP 60#

<u>Time</u>	<u>BFPH</u>	<u>Total</u>	<u>(+-Load)</u>	<u>Remarks</u>
8:15		129 BF	(-680 BL)	Start swabbing.
9:15	27 BF	155 BF	(-653 BL)	
10:15	27 BF	182 BF	(-626 BL)	Fair show of gas.
11:15	26 BF	208 BF	(-600 BL)	Increasing show of gas.
12:15	26 BF	234 BF	(-574 BL)	Fluid 100' down. Increasing gas show.

Shut-in until Monday.

02-12-79 SICP 100# SITP 100#

<u>Time</u>	<u>BFPH</u>	<u>Total</u>	<u>(+-Load)</u>	<u>CP</u>	<u>Remarks</u>
9:30		234	(-574)	100#	
10:30	25	259	(-549)	50#	
11:30	20	279	(-529)	30#	Good gas show.
12:30	15	294	(-514)	20#	Good gas show.
1:30	23	317	(-491)	75#	Good gas show.
2:30	15	332	(-476)	140#	Good gas show.
3:30	20	352	(-456)	190#	Good gas show.
4:30	23	375	(-433)	180#	Good gas show.
5:30	13	388	(-420)	280#	Good gas show.
6:00	15	403	(-405)	340#	Good gas show.

Shut-in for night.

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02-13-79 SICP 765# SITP 590#

<u>Time</u>	<u>BFPH</u>	<u>Total</u>	<u>(+/-Load)</u>	<u>CP</u>	<u>Remarks</u>
8:15		403	(-405)	765#	2 pulls of swab.
9:15	13	416	(-392)	750#	Kick off.
10:15	12	428	(-380)	770#	Venting 50 to 100 MCF.
11:15	12	440	(-368)	795#	Swab and flow.
12:15	15	455	(-353)	810#	Swab and flow.
1:15	17	472	(-336)	850#	Swab and flow.
2:15	15	487	(-321)	880#	Swab and flow.
3:15	13	500	(-308)	890#	Swab and flow.
4:15	12	512	(-296)	930#	Swab and flow.
5:15	10	522	(-286)	965#	Swab and flow.
5:30				910#	Well flowing. Put on choke.
6:30	4	526	(-282)	760#	110# TP Gauge 156 MCF 19/64" choke
7:30	12	538	(-270)	690#	110# TP Gauge 133 MCF 18/64" choke
8:30	11	549	(-259)	705#	120# TP Gauge 133 MCF 16/64" choke
9:30	12	561	(-247)	680#	140# TP Gauge 185 MCF 14/64" choke

Leave well flowing overnight.

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02-14-79 8:00 A.M. Gauge 185,000 CFGPD FTP 340# FCP 810# 14/64"
 choke. Made 43 BF in 10-1/2 hours. Average 4 BFPH.

<u>Time</u>	<u>BFPH</u>	<u>Total</u>	<u>(+-Load)</u>	<u>CP</u>	<u>TP</u>	<u>Gas Volume</u>	<u>Choke</u>	<u>Remarks</u>
9:00	7	611	(-197)	760#	220#	202,000 CFG	15/64"	
10:00	8	619	(-189)	670#	200#	202,000 CFG	13/64"	7% oil
11:00	7	626	(-182)	665#	180#	202,000 CFG	14/64"	6% oil
12:00	3	629	(-179)	670#	200#	185,000 CFG	14/64"	6% oil
1:00	7	636	(-172)	635#	180#	195,000 CFG	13/64"	6% oil
2:00	4	640	(-168)	635#	200#	175,000 CFG	13/64"	6% oil
3:00	5	645	(-163)	620#	175#	185,000 CFG	13/64"	6% oil
4:00	6	651	(-157)	615#	170#	185,000 CFG	13/64"	5% oil
4:30	3	654	(-154)	615#	180#	185,000 CFG	13/64"	5% oil

Shut-in @ 4:30.

02-15-79

<u>Time</u>	<u>BFPH</u>	<u>Total</u>	<u>(+-Load)</u>	<u>CP</u>	<u>TP</u>	<u>Gas Volume</u>	<u>Choke</u>	<u>Remarks</u>
7:45								SICP 1380# SITP 1380# Open well on 9/64" choke.
8:45	0	654	(-154)	1270#	1270#	370,000 CFG	9/64"	
9:45	0	654	(-154)	1080#	1080#	436,000 CFG	10/64"	
10:45	0	654	(-154)	1000#	810#	384,000 CFG	8/64"	Started bringing fluid @ 11:15, open choke.
12:00	10	664	(-144)	770#	180#	331,000 CFG	17/64"	
1:00	12	676	(-132)	630#	90#	411,000 CFG	20/64"	
2:00	10	686	(-122)	510#	40#	334,000 CFG	20/64"	
3:00	7	693	(-115)	465#	30#	259,000 CFG	20/64"	Shut-in.

Choke freezes off at low rates. Will test through Package
 Unit next week.

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02-20-79 SICP 1570# SITP 1565# Connect well to test through Gas
Package Unit. Test as follows:

<u>Time</u>	<u>Gas Volume</u>	<u>CP</u>	<u>TP</u>	<u>BFPH</u>	<u>Remarks</u>
2:00		1570#	1565#	0	Open well.
3:00	190,000 CFG	1540#	1540#	0	
4:00	180,000 CFG	1525#	1520#	0	
5:00	175,000 CFG	1510#	1505#	0	
6:00	175,000 CFG	1490#	1490#	0	
6:30	175,000 CFG	1485#	1485#	0	

Left well flowing overnight.

02-21-79 Overnight gas volume from 9:00 P.M. to 6:00 A.M. was stable
@ 156,000 CFG. No fluid.

<u>Time</u>	<u>Gas Volume</u>	<u>CP</u>	<u>TP</u>	<u>BFPH</u>	<u>Remarks</u>
7:00	144,000 CFG	1350#	1180#	0	
8:00	133,000 CFG	1350#	1115#	0	
9:00	115,000 CFG	1350#	1020#	0	
10:00	108,000 CFG	1355#	950#	0	
11:00	93,000 CFG	1355#	865#	0	
12:00	75,000 CFG	1360#	770#	0	
1:00	78,000 CFG	1360#	775#	0	
2:00	68,000 CFG	1365#	740#	0	
3:00	76,000 CFG	1310#	510#	7	Open choke to unload fluid. Oil and water.
4:00	150,000 CFG	1280#	580#	5	Brown emulsion, 10% oil.
5:00	300,000 CFG	1180#	520#	8	Brown emulsion, 10% oil.

Shut-in.

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03-08-79 SICP 1640# SITP 1640# Kill well. Rig up Hayes Well Service. Add 2 joints of 2-3/8" EUE tubing. Total tally now 5333.38' (173 joints, seating nipple and 11.97' OEMA) Swing @ 5340' KB. Run 2" x 1-1/2" x 12' RWAC pump with 212 new 3/4" Axelson S-60 sucker rods and (1) 4' pony rod. Make up well head. Will set pumping unit next week.

05-11-79 Cities Service Test: SICP 1668#

11:00 Start test. Blow down annulus. Start pumping unit.
11-1/2 SPM x 64" x 1-1/2"

12:00	FCP 375#	Gauge 475 to 565 MCFG	14.76	BTF	
1:00	FCP 340#	Gauge 389 MCFG	10.43	BTF	
2:00	FCP 320#	Gauge 333 MCFG	4.6	BF	17% oil
3:00	FCP 315#	Gauge 316 MCFG	4.4	BF	15% oil
4:00	FCP 322#	Gauge 261 MCFG	4.2	BF	18% oil
5:00	FCP 325#	Gauge 289 MCFG	4.2	BF	18% oil
6:00	FCP 325#	Gauge 280 MCFG	4.2	BF	18% oil

Shut-in. Gas gravity = .605

Calculate 18 BOPD + 82 BWPD + 280 MCFGPD. SICP 1668#.

09-12-79 Put well on production into Delhi Gas Pipeline.

09-13-79 Selling 245,000 CFGPD. Made 6.68 BO in stock plus filling Heater-Treater.

09-14-79 Selling 210,000 CFGPD with 15 BOPD and 70 BWPD.