

## **WELL REPORT**

**McCoy Petroleum Corporation**  
**#2-33 Cook "P"**  
**NE SE NE**  
**Section 33-22S-34W**  
**Amazon Ditch/Terry Pool Area**  
**Finney County, Kansas**  
**API# 15-055-21,419**

**MPC #536 (95-30)**

**Amazon Ditch Prospect**  
**Pennzoil Agreement**  
**EXXON Agreement**  
**North Finney AMI**

**Contractor: Sweetman Drilling, Inc. Rig #2.**

**Geologist: John Hastings**

**Elevations: 2952' GL 2963' KB (All measurements from KB)**

**7-05-95 MIRT. Move in Sweetman Drilling Rig #2**

**7-06-95 Finish rigging up Sweetman Rig #2. Spud 12-1/4" hole @ 6:30 P.M.**

**7-07-95 Drilling @ 880'.**

**7-08-95 1711'. WOC. Ran 41 jts 8-5/8", 24#, set @ 1711'. Cemented with 200 sx PPL, 1# FC, 6# gil, 2% CC + 225 sx PPL, 1/4# FC, 2% CC + 200 sx PP, 1/4# FC, 2% CC. PD @ 2:00 A.M. WOC.**

**7-09-95 Drilling @ 2210'.**

**7-10-95 Drilling @ 3205'**



**Well Report**

**Page 2**

**McCoy Petroleum Corporation**

**#2-33 Cook "P"**

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**Finney County, Kansas**

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**Lansing 'D' Zone, 3906'- 3911':** Drilled 1/2" to 1" / foot.

Limestone, white, fine crystalline, calcitic, dolomitic and sucrosic in part. Fair to good inter-crystalline porosity, some pieces with poor to fair show of free oil, fair show of gas bubbles. Fair odor. Light tan spotty to even stain. 33 Unit gas kick.

**DST # 1 3902-3911 (Lansing 'D' Zone)**

*Open 30", SI 60", Open 60", SI 90"*

*1st Open: Weak blow incr to 2-1/2" in 30 min.*

*2nd Open: No blow incr to 2" in 60 min.*

*Recovered: 20' Oil Specked Muddy Water*

*150' Slightly Mud Cut Water (14,000 PPM Chlorides)*

*FP: 30-44 / 53-100#*

*SIP: 320-320#*

7-11-95 3911'. TOH for DST #1.

**Lansing 'G' Zone, 4006'- 4010':** Drilled 1-1/2" to 2" / foot.

Limestone, tan to light gray, fine crystalline, calcitic matrix, fine grained oolitic to pelltitic,

scattered medium grained, some dark gray round pellets, poor inter particle porosity with pin point, and inter crystalline porosity. Poor show of free oil and gas bubbles. Light brown spotty stain to partial saturation. Fair odor. 17 Unit gas kick.

7-12-95 4018'. TOH with DST # 2.

**DST # 2 4002-4018 (Lansing 'G' Zone)**

*Open 30", SI 60", Open 30", SI 60"*

*1st Open: Weak blow built to 1" then decr to 1-2" in 30 min.*

*2nd Open : No blow.*

*Recovered: 60' Mud*

*FP: 44-44 / 49-49#*

*SIP: 175-170#*



**Well Report****Page 3****McCoy Petroleum Corporation****#2-33 Cook "P"****NE SE NE****Section 33-22S-34W****Amazon Ditch/Terry Pool Area****Finney County, Kansas****API# 15-055-21,419**

<b>SAMPLE TOPS</b>	<b>Structure Compared To:</b>	
	<b>McCoy Petroleum Corp.</b>	<b>Berexco</b>
	<b>Cook 'P' #1-33</b>	<b>Cormack #5</b>
	<b>NE NE NE</b>	<b>NW NW</b>
	<b>Sec. 33-22S-34W</b>	<b>Sec. 34-22S-34W</b>
	<b>Finney County, KS</b>	<b>Finney County, KS</b>
	<b>KB: 2961'</b>	<b>KB: 2959'</b>

Heebner Shale	3748(-785)	+6	Flat
Lansing	3807(-844)	+6	+1
Lansing 'D' Zone	3906(-943)	-1	-6
Lansing 'G' Zone	4006(-1043)	Flat	-6
Stark Shale	4134(-1171)	-2	-11
KC 'A'	4141(-1178)	-2	-11
KC 'B'	4177(-1214)	-1	-13
Marmaton	4279(-1316)	-3	-5
Marmaton 'B'	4298(-1335)	-4	-11
Marmaton 'C'	4332(-1369)	-3	-10
Pawnee	4366(-1403)	-4	-10
Fort Scott	4395(-1432)	-6	-14
Cherokee Sh.	4406(-1443)	-5	-9
Morrow Shale	4605(-1642)	-3	-4
Mississippi	4663(-1700)	-3	-15
St. Louis Porosity	4745(-1782)	-11	-38
RTD	4850(-1887)		

**Marmaton 'B' Zone, 4301' - 4306' : Drilled 1/2" to 1-1/2" / foot.**

Limestone, white, fine to medium crystalline, oomoldic, calcitic matrix, some oolites in place. Poor to fair inter oomoldic porosity, fair oomoldic porosity. Poor to scattered fair show of free oil in inter oomoldic porosity. Light brown spotty stain. Faint odor. 50% - 60% of sample has show.



**Well Report**

**Page 4**

**McCoy Petroleum Corporation**

**#2-33 Cook "P"**

**NE SE NE**

**Section 33-22S-34W**

**Amazon Ditch/Terry Pool Area**

**Finney County, Kansas**

**API# 15-055-21,419**

7-13-95 4310'. TOH with DST # 3.

**DST # 3 4295-4310 (Marmaton 'B' Zone)**

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

1st Open: Weak blow incr to 5" in 30 min.

2nd Open: No blow for 10" incr to 3" in 90 min.

Recovered: 310' Muddy Saltwater (Chlorides 44,000 PPM)

FP: 70-116 / 137 -182#

SIP: 608-586#

**Marmaton 'C' Zone, 4335'- 4339':** Drilled 1" / foot.

Limestone, white, tan, gray, fine to medium grained, fossil fragments, fine crystalline calcite, slightly oolitic. 4-5 pieces with poor visible inter fragmental porosity. Poor show of free oil and spotty brown stain. 1 piece partly saturated stain, scattered loose fragments with slight oil stain. Faint odor. 28 Unit gas kick.

**DST # 4 4324-4346 (Marmaton 'C' Zone)**

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

1st Open: Weak blow incr to 2-1/4" in 30 min.

2nd Open: Weak blow incr to strong blow OBB in 65 min.

Recovered: 185' GIP

15' Clean Oil

80' Heavy Oil and Gas Cut Mud (14% oil, 30% gas, 56% mud)

FP: 53-58 / 63-72#

SIP: 883-1145#

7-14-95 Drilling @ 4378'.

**Pawnee Limestone, 4368'- 4374':** Drilled 1/2" to 1" / foot.

Limestone, white to tan, fine crystalline, fine grained oolitic clusters, oolitic in part. Fair to good inter oolitic and oolitic porosity, scattered pieces with slightly vugular porosity. Poor to fair show of free oil and gas bubbles. Spotty brown stain, couple of pieces with partial saturation. Faint odor. Possible 30-35 Unit gas kick. Evaluate on electric log.



**Well Report**

**Page 5**

**McCoy Petroleum Corporation**

**#2-33 Cook "P"**

**NE SE NE**

**Section 33-22S-34W**

**Amazon Ditch/Terry Pool Area**

**Finney County, Kansas**

**API# 15-055-21,419**

**Upper Cherokee Limestone, 4315'- 4319':** Drilled 1-1/2" to 2" / foot.

Limestone, tan-brown-gray, fine grained, fossil fragments. Fair to good inter particle porosity. Fair show of free oil, some with dry oily luster. Saturated to sub-saturated staining. Fair odor. No detectable gas kick.

**DST # 5 4392-4420 (Upper Cherokee Limestone)**

Open 30", SI 60", Open 60", SI 170"

1st Open: Weak to strong blow OBB in 26 min.

2nd Open: Weak to strong blow OBB in 10 min.

Recovered: 575' GIP

100' Clean Gassy Oil (36% gas, 64% oil)

75' Oil & Gas Cut Mud (7% gas, 9% oil, 84% mud)

FP: 46-58 / 74-100#

SIP: 647-658#

7-15-95 Drilling @ 4600'.

**Mississippi Porosity, 4684'- 4700':** Drilled 1-1/2" to 2" / foot.

Limestone, white to tan, fine to very fine grained oolitic clusters, occasional fine-medium crystalline calcitic matrix. Fair to good inter oolitic porosity. Fair to good show of free oil. Saturated light to dark brown stain. Fair odor. 25 Unit gas kick.

**DST # 6 4678-4700 (Mississippi)**

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

1st Open: Weak blow incr to 1" in 12 min. stabilized.

2nd Open: Surface blow incr to 1/2" in 20 min., died in 60"

Recovered: 50' Oil & Gas Cut Mud

(7% gas, 13% oil, 80% mud)

FP: 42-46 / 49-51#

SIP: 128-123#



**Well Report**

**Page 6**

**McCoy Petroleum Corporation**

**#2-33 Cook "P"**

**NE SE NE**

**Section 33-22S-34W**

**Amazon Ditch/Terry Pool Area**

**Finney County, Kansas**

**API# 15-055-21,419**

**St. Louis Porosity, 4745'- 4754':** Drilled 1-1/2" to 2" / foot.

Limestone, white to tan, fine to medium grained oolitic clusters, poorly cemented and poorly sorted, some elliptical, rare fossil fragments. Fair to good inter oolitic porosity in several small pieces, considerable loose oolites. 4-5 clusters per tray with poor to fair show of free oil. Saturated to partial saturated light to dark brown stain. Possible 15 unit gas kick.

**7-16-95** 4754'. TOH for DST # 7 4734'- 4754'.

**DST # 7 4734-4754 (St. Louis Porosity)**

**Open 30", SI 60", Open 90", SI 90"**

**1st Open: Weak to strong blow OBB in 17 min.**

**2nd Open: Weak to strong blow OBB in 17 min.**

**Recovered: 635' GIP**

**120' Clean Gassy Oil (29° gravity)**

**85' Gassy Oil Cut Watery Mud (10% gas, 13% oil, 8% water, 69% mud)**

**195' Mud Cut Water (35,000 PPM Chlorides)**

**FP: 65-137 / 149-221#**

**SIP: 558-554#**



**Well Report****Page 7****McCoy Petroleum Corporation****#2-33 Cook "P"****NE SE NE****Section 33-22S-34W****Amazon Ditch/Terry Pool Area****Finney County, Kansas****API# 15-055-21,419**

<b>ELECTRIC LOG TOPS</b>	<b>Structure Compared To:</b>	
	<b>McCoy Petroleum Corp. Cook 'P' #1-33 NE NE NE Sec. 33-22S-34W Finney County, KS KB: 2961'</b>	<b>Berexco Cormack #5 NW NW Sec. 34-22S-34W Finney County, KS KB: 2959'</b>

Heebner Shale	3754(-791)	Flat	-6
Lansing	3812(-849)	+1	-4
Lansing 'D' Zone	3906(-943)	-1	-6
Lansing 'G' Zone	4009(-1046)	-3	-9
Stark Shale	4134(-1171)	-2	-11
KC 'A'	4141(-1178)	-2	-11
KC 'B'	4178(-1215)	-2	-14
Marmaton	4280(-1317)	-4	-6
Marmaton 'B'	4298(-1335)	-4	-11
Marmaton 'C'	4332(-1369)	-3	-10
Pawnee	4365(-1402)	-3	-9
Fort Scott	4395(-1432)	-6	-14
Cherokee Sh.	4412(-1449)	-11	-15
Morrow Shale	4617(-1654)	-15	-16
Mississippi	4669(-1706)	-9	-21
St. Louis Porosity	4744(-1781)	-10	-37
RTD	4850(-1887)		
LTD	4850(-1887)		



**Well Report**

**Page 8**

**McCoy Petroleum Corporation**

**#2-33 Cook "P"**

**NE SE NE**

**Section 33-22S-34W**

**Amazon Ditch/Terry Pool Area**

**Finney County, Kansas**

**API# 15-055-21,419**

7-17-95 4850' TD. Ran HLS Electric logs. Tripped in with drill pipe, conditioned hole and tripped out and layed down drill string. Ran 5½" casing to 4848' as follows:

- 1 - 5½" guide shoe with insert float
- 43.11' - 5½" shoe joint with latch down baffle
- 14 joints of 5½", 15½#, J-55, Rg 3, LT&C, used, yellow band casing
- 95 joints of 5½", 14#, J-55, Rg 3, ST&C, used, yellow band casing
- 9 joints of 5½", 14#, J-55, Rg 2, ST&C, used, yellow band casing.

Centralizers on the 1<sup>st</sup>, 3<sup>rd</sup>, 10<sup>th</sup>, 12<sup>th</sup>, 14<sup>th</sup>, 16<sup>th</sup>, and 23<sup>rd</sup> joints. Cement basket on the 16<sup>th</sup> joint. DV tool at 3126' with basket below and centralizers on either side.

07-18-95 Dowell cemented as follows:

*1<sup>st</sup> stage:* 175 sks of Self Stress containing 2% CaCl<sub>2</sub>, ½% D-60 fluid loss, 0.2% D-46 anti-foam agent, 10#/sx gilsonite, ¼#/sx D-29 celloflake mixed at 14.7 #/gal, 1.54 ft<sup>3</sup>/sx yield, 7.38 gal/sx. Had 1000# of lift pressure, plug landed 4 BBL early possibly due to aired up displacement mud. Good circulation. Plug down at 3:15 a.m. 07-18-95.

*2<sup>nd</sup> stage:* 225 sxs of 65/35 poz containing 6% gel, 2% CaCl<sub>2</sub>, 5#/sx gilsonite, and ¼#/sx D-29 celloflake yielding 2.15 ft<sup>3</sup>/sx, tailed with 75 sxs of 10-2 RFC containing 5#/sx gilsonite yielding 1.60 ft<sup>3</sup>/sx. Good circulation. Had 590# of lift pressure. Plug down at 9:15 a.m. 07-18-95.

Release Sweetman Drilling. Drop from report pending completion activity.

07-26-95 Move in and rig up Post & Mastin Well Service late in afternoon. Unload 2-7/8" tubing. SDFN.

07-27-95 Ran in hole with 4-7/8" bit and scraper on 2-7/8" tubing. Tagged DV tool at 3130' (4' deep) by tubing tally. Rigged up Homco. Drilled DV tool. Tripped tubing to bottom and tagged PBTD at 4810' (4' deep) by tubing tally. Circulated clean and displaced casing with KCL water. TOOH with 2-7/8" tubing, scraper and bit. SDFN.



*Well Report*

*Page 9*

*McCoy Petroleum Corporation*

*#2-33 Cook "P"*

*NE SE NE*

*Section 33-22S-34W*

*Amazon Ditch/Terry Pool Area*

*Finney County, Kansas*

*API# 15-055-21,419*

07-28-95 Running GR-CCL-CBL. PBTD @ 4801'. Top of 1st stage cement @ 3530'. Good bond. DV Tool @ 3126'. Top of 2nd stage cement @ 1950'. Swab fluid in casing down to 3200'. **Perforate St. Louis from 4744' to 4748'** (4' gun, 4 spf, 23 gram SSB jets). TIH with 2-7/8" EUE tubing with packer. Set packer @ 4708'. Swab dry. Wait 30 minutes. Run swab, recovered 25' water with trace of oil. Release packer. Lower tubing to below perforations. Rig up Halliburton. Displace acid across perforations. Raise tubing and set packer @ 4708'. **Acidize St. Louis perforations with 1,000 gallons of 15% HCL FE-NE Acid with AS-7 additive.** With acid on perforations, pressure to maximum of 543# and started feeding .87 BPM. Treating pressure decreased to vacuum @ 1.36 BPM with 135 gallons acid in perforations. Finish @ .73 BPM on vacuum. Total load = 52 barrels. Run tubing swab. Fluid 500' down. Swab as follows:

1 <sup>st</sup> hour:	Swab 23.7 BFPH	Water	Fluid 1800' down.
2 <sup>nd</sup> hour:	Swab 17.8 BFPH	8% oil.	Fluid 4000' down.
3 <sup>rd</sup> hour:	Swab 12.5 BFPH	25% oil.	Fluid 4200' down.

Shut down for night.

07-29-95 Fluid 3800' down. FU 450' of oil and 500' of water.

1 <sup>st</sup> hour:	Swab 17.79 BFPH	20% oil.	Fluid 4200' down.
2 <sup>nd</sup> hour:	Swab 9.28 BFPH	70% oil.	Fluid 4300' down.
3 <sup>rd</sup> hour:	Swab 9.09 BFPH	66% oil.	Fluid 4300' down.
4 <sup>th</sup> hour:	Swab 9.50 BFPH	61% oil.	Fluid 4300' down.
5 <sup>th</sup> hour:	Swab 9.30 BFPH	62% oil.	Fluid 4350' down.

Shut down until Monday.

07-30-95 Shut in.

07-31-95 Fluid 3700' down. FU 1050' oil. Made 2 runs with swab. Total fluid recovered = 1300' oil and 360' of water. Release packer. TOH with tubing and packer. Rig up HLS. **Perforate Cherokee Limestone from 4414-4417'** (3' gun, 4 spf, 23 gram SSB jets). TIH with 2-7/8" EUE tubing, packer and RBP. Set RBP below Cherokee perforations. Action to release from RBP was not correct. TOH with tubing. RBP is set. Mandrel unscrewed and came out with tubing. Left Lok-Set bridge plug and bottom skirt of Model R packer in the hole.



*Well Report*

*Page 10*

*McCoy Petroleum Corporation*

*#2-33 Cook "P"*

*NE SE NE*

*Section 33-22S-34W*

*Amazon Ditch/Terry Pool Area*

*Finney County, Kansas*

*API# 15-055-21,419*

08-01-95 TIH with 2-7/8" tubing and mandrel from Model R. Unable to screw onto skirt. Came out with mandrel. Ran in with spear. Speared bottom skirt of Model R packer. Released Lok-Set. TOOH with fish and Lok-Set bridge plug. TIH with Lok-Set bridge plug and Model R packer. Set RBP at 4450' and packer at 4386', straddling the Cherokee Lime perforations. Swabbed tubing and tested dry. SDFN.

08-02-95 SITP 0#. Went in with tubing swab and found fluid at 4100' (315' of fillup overnight). Swabbed down and recovered 1.5 BTF, 95% oil. No free water, just slight emulsion. **Acidize Cherokee Limestone from 4414-4417' with 1000 gallons of 15% Fe-NE acid** as follows: Release packer and spot acid. Pressure up to 500 psi, shut down for 1 minute and pressure fell to 82 psi. Started pumping and acid began feeding at 600 psi at 1½ BPM. Continued pumping at this rate and pressure fell to 511 psi with 265 gallons in zone. Pressure then began to rise and reached 537 psi with half of job pumped. Increased rate to 2 BPM and pressure jumped to 607 psi and rose to 651 psi with 730 gallons pumped. Pressure broke back to 633 psi with 866 gallons pumped and then increased to 684 psi at end of job. ISIP 540 psi, 5" 420 psi, 10" 354 psi, 15 min 281 psi. Opened tubing and flowed back 25 gallons. Total load to recover 49.5 BBL. Ran in with swab to test, fluid level at the surface. Test as follows:

1 <sup>st</sup> hour:	16.93 BTF	20% oil at end	fluid level 3600'
2 <sup>nd</sup> hour:	8.78 BTF	85% oil	fluid level 3800'
3 <sup>rd</sup> hour:	3.51 BTF	96% oil by grind out	fluid level 4100'
4 <sup>th</sup> hour:	3.51 BTF	96% oil	fluid level 4100'
5 <sup>th</sup> hour:	2.90 BTF	96% oil	fluid level 4200'

Released packer and swabbed water out of annulus until oil percentage went over 50%. Reset packer and shut down for night.

08-03-95 SITP 0#. Ran in with swab and tagged fluid at 3600', 814' of fluid over zone, 200' of it is water which is probably from annulus. Release packer and bridge plug. Trip out of hole with 2-7/8" tubing, packer and plug. Run in hole with tubing and rod string as follows:

*Tubing string:* 30.84' orange peeled, slotted mud anchor, 1.1' seating nipple, 149 joints of 2-7/8" EUE 8rd used yellow band tubing set at 4795' KB.



**Well Report**

**Page 11**

**McCoy Petroleum Corporation**

**#2-33 Cook "P"**

**NE SE NE**

**Section 33-22S-34W**

**Amazon Ditch/Terry Pool Area**

**Finney County, Kansas**

**API# 15-055-21,419**

*Rod String:* 1¼" x 12' gas anchor, 2½" x 2" x 18' RWTC pump, 2' x ¾" pony rod, 132 ¾" Grade D new sucker rods, 56 7/8" Grade D new Raton sucker rods, 8' x 7/8" pony rod, 1¼" x 22' polished rod, 1½" x 12' hard-faced polished rod liner.

Rig down Post & Mastin Well Service. Drop from report pending well hook up.

08-07 to 08-10-95 Set Lufkin 228 pumping unit. Layed 2-3/8" yellow band tubing for leadline. Installed gas line and kill wire. Hooked up lines to battery. Waiting on utility to install electric service. Should be installed next week. Will wait to start well until have electricity and motor installed.

08-11-95 Shot static fluid level on well. Fluid level 110 joints (3509') from surface with 5 psi casing pressure. Believe this fluid level should be representative of St. Louis pressure. 1237' of fluid above St. Louis. Estimated St. Louis pressure from fillup is 495 psi. Drop from report until electricity is hooked up.

08-21-95 Installed control panel. Utility set poles. Ran underground wire to pole.

08-22-95 Utility strung wire and installed meter loop. Installed motor and belts. Hooked up to meter, will start well tomorrow.

08-23-95 Started well pumping 11½ - 74" SPM on 2" bore pump at 12:00 noon. Checked well at 4:00 p.m. and shows a good oil percentage at bleeder.

08-24-95 Well produced 162 BO and 41 BW in 20 hours (194 BOPD and 49 BWPD). Pump efficiency 61%. Bleeder sample shows 50% oil. Shot fluid level at 138 jts from surface with 100 psi on the casing. Fluid level at 4400'. Pump intake pressure estimated at 200 psi.

*Change to 08-24-95* Found 55 BW in stock tank in the afternoon. Production reported was incorrect. Should be well produced 107 BO and 96 BW in 20 hours (128 BOPD and 115 BWPD). Check bleeder in the evening and showed 67% oil with some emulsion.



**Well Report**  
**Page 12**

**McCoy Petroleum Corporation**  
**#2-33 Cook "P"**  
**NE SE NE**  
**Section 33-22S-34W**  
**Amazon Ditch/Terry Pool Area**  
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08-25-95 Well produced 180 BO and 116 BW since being started after accounting for water pulled from stock (an average of 98 BOPD and 63 BWPD). Oil currently going over into stock at 3%. Will lower syphon on treater and increase demulsifier.

08-26-95 Well producing 72 BOPD and 21 BWPD.

08-27-95 Well pumped 42 BOPD and 22 BWPD.

08-28-95 Well pumped 28 BOPD and 24 BWPD.

08-29-95 Well was shut down yesterday to fix syphon on treater. Found syphon nearly plugged with iron sulfide. Started well back up this morning.

08-30-95 Lease made 135 BO and 35 BW in 17 hours from both wells. Amount from #2 is unknown. Oil going over into stock is pipeline quality.

08-31-95 Well pumped 40 BOPD and 14 BWPD.

09-01-95 Well pumped 30 BOPD and 11 BWPD.

**FINAL REPORT: Well completed 9-1-95 to pump 30 BOPD and 11 BWPD from Cherokee Limestone 4414' to 4417' and St. Louis 4744' to 4748' commingled.**