

WELL REPORT

McCoy Petroleum Corporation
#1-33 Cook "P"
NE NE NE
Section 33-22S-34W
Amazon Ditch/Terry Pool Area
Finney County, Kansas
API# 15-055-21,312

#469 (94-15)

Amazon Ditch Prospect
Pennzoil Agreement
EXXON Agreement
North Finney AMI

Contractor: Sweetman Drilling, Inc. Rig #1.

Geologist: John Hastings

Elevations: 2948 GL 2961' KB (All measurements from KB)

05-25-94 Move in Sweetman Drilling, Inc. Rig up. Spud at 7:00 P.M.

05-26-94 Drilling @ 897' Drill 12-1/4" surface hole to 1670'.

05-27-94 WOC @ 1670'. Set 40 joints of new 8-5/8" OD, 24# surface casing @ 1670'. Halliburton cemented with 200 sacks of Premium Plus Light Cement, 1# Flocele and 6# Gilsonite per sack, 2% calcium chloride, followed by 200 sacks of Premium Plus Light Cement, 1/4# Flocele per sack, 2% calcium chloride, tailed with 200 sacks of Premium Cement, 1/4# Flocele per sack, 2% calcium chloride. Cement circulated. PD @ 1:46 AM on 05-27-94. WOC.

05-28-94 Drilling @ 2325'.

05-29-94 Drilling @ 3300'.

05-30-94 Drilling @ 4015'.

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<i>SAMPLE TOPS</i>		<i>Structure compared to</i>	
		<i>OXY</i>	<i>BEREXCO</i>
		<i>#3 Bailey C</i>	<i>#4-34 Cormack</i>
		<i>C SW SW</i>	<i>NE SW NW</i>
		<i>27-22S-34W</i>	<i>34-22S-34W</i>
Heebner	3754 (- 793)	- 3	-14
Toronto	3769 (- 808)	+ 3	-13
Lansing	3813 (- 852)	- 1	-15
Lansing "D"	3808 (- 947)	- 6	-16
LKC "G"	4009 (-1048)	- 2	-19
LKC "H"	4032 (-1071)	+ 1	-14
KCA	4133 (-1172)	Flat	- 9
KCB	4174 (-1213)	- 3	-11
KCC	4218 (-1257)	+ 1	-12
Marmaton "A"	4262 (-1301)	- 2	Flat
Marmaton "B"	4295 (-1334)	- 8	-13
Pawnee	4362 (-1401)	- 1	-14
Fort Scott	4389 (-1428)	Flat	-13
Cherokee Shale	4401 (-1440)	+ 4	-11
M/Cherokee zone	4507 (-1546)	+ 6	- 8
Morrow Shale	4605 (-1644)	+ 6	- 5
Mississippian	4653 (-1692)	+16	- 9
St. Louis porosity	4734 (-1773)	-19	-16
RTD	4850 (-1889)		

Lansing "D" porosity 3908-3913': Drilled 1" per foot.

Limestone; white to tan, finely xln, dolomitic, sucrosic, fossiliferous. Fair to good vugular, fossil-cast and inter-xln porosity. A few pieces with a poor show of free oil and tan oil stain, 95% of porosity is barren. Faint odor. 8 unit gas kick from top 1' of zone. Evaluate on Electric Log.

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LKC "G" porosity 4010-4014': Drilled 1" per foot.

Limestone; tan, fine to medium xln, calcitic to mealy and slightly chalky. Fair vugular and inter-xln porosity. Poor to fair show of free oil. Poor to fair show of gas bubbles. Light brown patchy oil stain. Fair odor. 12 unit gas kick.

DST #1 4001-4018' (LKC "G" zone)

Open 30", S.I. 30", Open 30", S.I. 30"

Weak blow, died in 15" on 1st open period.

No blow on 2nd open period.

Recovered 5' of mud with oil spots in tool.

FP 31-31# 31-31#

ISIP 239# FSIP 228#

LKC Upper "H" zone 4032-4036': Drilled 2" per foot.

Limestone; tan to light brown, fine to medium xln, scattered fossil and clastic fragments, mostly compact. Several small pieces with poor inter-oolitic to inter-xln and fossil-cast porosity. Poor show of free oil and greasy luster. Light tan spotted to even oil stain. Faint odor. 3 unit gas kick. Evaluate on Electric Log.

LKC Lower "H" zone 4054-4059': Drilled 1" per foot.

Limestone; tan, fine to medium xln, calcitic. Scattered oolite clusters with poor inter-oolitic porosity, some chalky and soft. Mostly with no show. A few pieces with poor show of free oil and spotty to even light brown oil stain. Faint odor. No gas kick. Evaluate on Electric Log.

KCA porosity 4137-4149': Drilled 1" per foot.

Limestone; white to tan, fine to medium xln, oolitic and fossiliferous. Fair to good inter-oolitic and vugular porosity. Poor to fair show of free oil. Patchy to saturated brown oil stain in most, a few pieces with no show. Good odor. Gas Detector not working properly.

05-31-94 Taking DST #2 @ 4150'.

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DST #2 4130-4150' (KCA)

Open 30", S.I. 60", Open 30", S.I. 60"

Weak 1/4" blow throughout 1st open period.

No blow on 2nd open period.

*Recovered 120' of watery mud with a trace of oil. Oil scum at top of tool.
(12,500 ppm chlorides)*

FP 20-31# 62-62#

ISIP 749# FSIP 729#

KCB porosity 4195-4202': Drilled 1" per foot.

Limestone; tan to white, fine to medium xln, slightly oolitic. Poor to fair vugular and inter-xln porosity. Trace of free oil and light brown spotty stain. Predominantly barren. Very faint odor. Possible 14 unit gas kick. Evaluate on Electric Log.

KCC porosity 4224-4232': Drilled 1" per foot.

Limestone; white to tan, fine to medium xln, calcitic to mealy to slightly oolitic with fine to medium gray oolites. Scattered poor to fair inter-xln and vugular porosity. Scattered poor oolitic porosity. No shows.

Marmaton "A" porosity 4262-4266': Drilled 1-1/2" to 2" per foot.

Limestone; white, fine to medium xln, dolomitic with rhombic crystals, slightly fossiliferous. Fair to scattered inter-xln and vugular porosity. Poor to fair show of free oil. Patchy dark brown oil stain to saturation. Faint odor. 23 unit gas kick. Evaluate on Electric Log.

Marmaton "B" porosity 4295-4302': Drilled 1/2" per foot.

Limestone; white to light tan, finely xln, oolitic to oolitic, fossiliferous. Fair to good oolitic and inter-oolitic porosity. Poor to scattered fair show of gassy free oil. Light tan spotted oil stain in 70 to 75% of porosity. Fair odor. 100 unit gas kick.

06-01-94 On bottom with DST #3 @ 4304'.

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DST #3 4285-4304' (Marmaton "B")

Open 30", S.I. 60", Open 90", S.I. 120"

Weak blow, increased to fair 8" blow on 1st open period. 2" blow back on ISIP.

Weak blow, increased to strong OBB/15" on 2nd open period.

Recovered 975' of gas in pipe,

315' of total fluid as follows:

135' of clean gassy oil,

180' of heavily oil and gas cut mud. (30% gas, 20% oil, 50% mud)

FP 104-104# 124-145#

ISIP 488# FSIP 488#

Pawnee porosity 4364-4368': Drilled 1/2" per foot.

Limestone; white, fine to medium size oolite clusters with scattered clear xln calcite matrix, slightly fossiliferous. Scattered fair inter-oolitic and vugular porosity and poor to fair oolitic porosity. Poor to fair show of free oil. Poor to fair show of gas bubbles. Most oil is live and gassy, some is flakey with irregular shape. Spotty to scattered saturated brown oil stain in 70-75% of porosity. 25-30% with no show. Fair odor. Gas detector of no value after DST #3. Evaluate on Electric Log.

Fort Scott porosity 4392-4399': Drilled 2-1/2" per foot.

Limestone; tan and brown, finely xln, slightly calcitic, fossiliferous in part. Scattered poor solution, pin-point and vugular porosity. Trace to poor show of free oil. Spotty brown oil stain to a trace of saturated oil stain. Faint odor. No gas kick.

Cherokee Limestone porosity 4405-4409': Drilled 1" per foot.

Limestone; tan to gray, fine to medium xln, fossiliferous with clastic fossil fragments, calcitic. Fair to good inter-fossil and vugular porosity. Poor show of free oil. Good dry greasy luster. Spotty to saturated dark brown oil stain. Faint odor. 12 unit gas kick.

06-02-94 On bottom with DST #4 @ 4414'.

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DST #4 4383-4414' (Fort Scott/Cherokee)

Open 30", S.I. 60", Open 60", S.I. 90"

Fair blow, increased to good 11" blow on 1st open period.

Fair blow, increased to strong OBB/8" on 2nd open period.

Recovered 980' of gas in the pipe,

285' of total fluid as follows:

95' of clean gassy oil,

190' of oil and gas cut mud. (45% gas, 15% oil, 40% mud)

FP 72-135# 135-145#

ISIP 629# FSIP 639#

Middle Cherokee zone 4507-4511': Drilled 1" per foot.

Dolomite; tan to brown, finely xln, sucrosic, slightly fossiliferous. Poor to fair inter-xln and solution porosity. Trace to poor show of free oil. Dry greasy luster. Poor to fair show of gas bubbles. Brown saturated oil stain. Fair odor. 5 unit gas kick. Evaluate on Electric Log.

Mississippian porosity 4653-4665': Drilled 1" to 2-1/2" per foot.

Limestone; fine to medium grained oolite clusters and loose oolites. Sparce fine xln calcite matrix in clusters. Fair to good inter-oolitic porosity. Abundant loose oolites, some oval to rod shaped. Scattered pyrite. Poor to good show of free oil. Fair show of gas bubbles. Partial to saturated brown oil stain. Some loose oolites are stained brown. Fair odor. 32 unit gas kick.

06-03-94 Circulate for samples @ 4722'. Condition hole for DST #5.

DST #5 4602-4722' (Mississippian)

Open 30", S.I. 60", Open 30", S.I. 60"

Weak 1" blow, decreased to 1/4" blow on 1st open period.

No blow on 2nd open period.

Recovered 100' of very slightly oil cut mud.

FP 72-72# 83-83#

ISIP 197# FSIP 135#

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St. Louis porosity 4734-4744': Drilled 1-1/2" to 2-1/2" per foot.

Limestone; white fine grained oolitic clusters. Scattered fine xln calcite matrix. Poor to scattered fair inter-oolitic porosity. Trace to poor show of free oil. Dry greasy luster. Light brown spotty oil stain. Faint odor. No gas kick.

06-04-94 Taking DST #6 @ 4744'.

DST #6 4724-4744' (St. Louis)

Open 30", S.I. 60", Open 90", S.I. 90"

Strong blow, OBB/6" on 1st open period.

Strong blow, OBB/6" on 2nd open period.

Recovered 2630' of gas in pipe,

795' of total fluid as follows:

565' of clean gassy oil, (29.2 degree gravity)

230' of gassy oil cut mud. (45% gas, 10% oil, 45% mud)

FP 93-124# 187-280#

ISIP 719# FSIP 719#

06-05-94 RTD 4850'. Run Schlumberger Logs. Lay down drill pipe and collars. Run 62 joints of new 5-1/2" OD, 15.5#, R-3, LT&C, M-50 production casing. Dropped casing to bottom. Pick up drill pipe. Trip in hole with drill pipe and overshot. Latch onto top of casing. Trip out of hole with casing.

06-06-94 RTD 4850'. Lay down casing for inspection (will run new string of casing). Trip to RTD @ 4850' with drill pipe, collars and bit. Condition hole. Trip out of hole, lay down drill pipe and collars.

06-07-94 RTD 4850'. Run 117 joints of new 5-1/2" OD, 15.5#, 8 rd, R-3, LT&C casing (bottom 62 joints are J-55, remainder is M-50). Set @ 4848'. DV Tool @ 3155'. Shoe joint = 43.58' OA. Halliburton cemented 1st stage with 250 sacks of Premium Class "H" Cement, 15% salt, 10% EA-2, 10# Gilsonite/sack, 1# Flocele/sack, 0.6% Halad 322, run 15 bbl. SuperFlush ahead of cement. Rotate pipe. 14.8#, 1.57 yield. Good circulation. 450# lift. PD @ 12:50 AM. Open DV Tool @ 3155'. Cement 2nd stage with 350 sacks of Premium Light Class "C" Cement, 2% calcium chloride, 1/4# Flocele/sack. 2.06

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yield, 12.3#. Good circulation. 600# lift. PD @ 6:10 AM on 06-07-94. Rig down rotary tools.

<i>ELECTRIC LOG TOPS</i>	<i>Structure compared to</i>	
	<i>OXY</i>	<i>BEREXCO</i>
	<i>#3 Bailey C</i>	<i>#4-34 Cormack</i>
	<i>C SW SW</i>	<i>NE SW NW</i>
	<i>27-22S-34W</i>	<i>34-22S-34W</i>

Heebner	3752 (- 791)	- 1	-12
Toronto	3769 (- 808)	+ 3	-13
Lansing	3811 (- 850)	+ 1	-13
Lansing "D"	3804 (- 943)	- 1	-12
LKC "G"	4005 (-1044)	+ 2	-17
LKC "H"	4032 (-1071)	+ 1	-14
KCA	4137 (-1176)	+ 1	-13
KCB	4174 (-1213)	- 1	-10
KCC	4215 (-1254)	+ 1	- 9
Marmaton "A"	4274 (-1313)	- 1	-12
Marmaton "B"	4292 (-1331)	- 1	-12
Pawnee	4360 (-1399)	+ 1	-12
Fort Scott	4387 (-1426)	+ 2	-11
Cherokee Shale	4399 (-1438)	+ 6	-10
M/Cherokee zone	4504 (-1543)	+ 6	-10
Morrow Shale	4600 (-1639)	+11	Flat
Mississippian	4658 (-1697)	+11	-14
St. Louis porosity	4732 (-1771)	-15	-14
LTD	4847 (-1886)		

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INDICATED PAY ZONES

<i>Marmaton "B"</i>	<i>4294-4299': DST recovered 975' of gas in pipe, 135' of clean oil, 180' of heavily oil cut mud. ISIP 488# FSIP 488#.</i>
<i>Cherokee Lime</i>	<i>4403-4406': DST recovered 980' of gas in pipe, 95' of clean oil, 190' of gassy oil cut mud. ISIP 629# FSIP 629#.</i>
<i>St. Louis</i>	<i>4732-4743': DST recovered 2630' of gas in pipe, 565' of clean gassy oil, 230' of gassy oil cut mud. ISIP 719# FSIP 719#.</i>

06-15-94 Move in Post & Mastin Well Service. Rig up. Run 2-7/8" EUE tubing with bit and scraper. Drill DV Tool @ 3155'. Trip to bottom with tubing and bit. Circulate clean. Spot KCL water in casing. TOH with tubing, bit and scraper.

06-16-94 Rig up Schlumberger. Run GR-Cement Bond-CCL Log. PBTD @ 4799'. Top of 1st stage cement @ 3340'. Good bond across pay zones. DV Tool @ 3154'. Top of 2nd stage cement @ 2456'. Swab fluid in casing down to 3500'. **Schlumberger perforated St. Louis from 4732-4742', (4 spf, 37J).** TIH with 142 joints of used 2-7/8" EUE tubing and Model "R" packer. Set packer @ 4708'. Swab down. Wait 1 hour. Swab 1.16 BOPH/1 hour, natural. Shut down for night.

06-17-94 SITP 17#. FU 1450' oil. Swab down recovered 8.70 BO. Rig up Halliburton. Lower tubing to 4758'. Load hole and displace acid across perforations. Raise tubing and set packer @ 4708'. **Halliburton acidize with 1500 gallons of 15% HCL FE-NE acid using 60 ball sealers in last 1000 gallons.** Start in perforations @ 2.75 BPM @ 351#; pressure decreased to vacuum @ 2.8 BPM with 166 gallons in perforations; pressure increased to 149# @ 1.48 BPM with 329 gallons in perforations; start flush @ 424# @ 2.0 BPM; pressure increased to 1260# (Maximum pressure) @ 1.70 BPM with 980 gallons of flush pumped. Shut down. Flow back 144 gallons. Pump rest of flush @ 2.8 BPM @ 835#. ISIP 650#; 240#/5"; on vacuum in 9 minutes.

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Swab test St. Louis perforations @ 4732-4742' as follows:

1st hour:	Swab 25.72 BFPH	0% oil.	Fluid 2400' down.
2nd hour:	Swab 11.02 BFPH	30% oil.	Fluid 2550' down.
3rd hour:	Swab 13.92 BOPH	90% oil.	Fluid 3300' down.
4th hour:	Swab 11.60 BOPH	85% oil.	Fluid 3600' down.
5th hour:	Swab 13.34 BOPH	90% oil.	Fluid 3600' down.
6th hour:	Swab 18.56 BOPH	90% oil.	Fluid 3600' down.

Shut down for night.

06-18-94 SITP 27#. Fluid 3100' down (FU 1650' oil), St. Louis perforations.

1st hour:	Swab 23.03 BOPH	90% oil.	Fluid 3700' down.
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Release packer. TOH with tubing and packer. Rig up Schlumberger. **Perforate Cherokee Lime from 4403-4406' (4 spf, 37J).** TIH with 2-7/8" EUE tubing, Model "R" packer and RBP. Set RBP @ 4475'. Set packer @ 4382'. Cherokee perforations open between packers. Swab down. Swab dry. Shut in until Monday.

06-19-94 Shut down.

06-20-94 FU 35' oil (Cherokee Lime). Swab dry. Rig up Halliburton to acidize. Lower packer and test RBP to 1280# and held. Load hole and displace acid across perforations. Set packer @ 4382'. **Acidize Cherokee Lime perforations with 1000 gallons of 15% HCL FE-NE Acid.** Pump .81 BPM @ 578#, decreasing to .69 BPM @ 559#; increase rate to 1.65 BPM @ 882#; finish @ 2.05 BPM @ 741#. ISIP 680#; 227#/5"; on vacuum in 8-1/2 minutes. 50 BL.

1st hour:	Swab 33.93 BFPH	20% oil.	Fluid 3000' down.
2nd hour:	Swab 15.03 BFPH	85% oil.	Fluid 3500' down.
3rd hour:	Swab 11.69 BOPH	95% oil.	Fluid 3900' down.
4th hour:	Swab 8.35 BOPH	95% oil.	Fluid 4000' down.
5th hour:	Swab 7.51 BOPH	95% oil.	Fluid 4000' down.
6th hour:	Swab 6.68 BOPH	95% oil.	Fluid 4100' down.

Shut down for night.

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06-21-94 SITP 15#. Fluid 3100' down (FU 1300' oil) from Cherokee perforations. Swab 1/2 hour; recovered 9.16 BO. Release packer. Latch on to RBP. TOH with tubing, packer and RBP. Rig up Schlumberger. **Perforate Marmaton "B" zone from 4294-4299' (4 spf, 37J).** TIH with 2-7/8" EUE tubing, packer and RBP. Set RBP @ 4350'. Set packer @ 4269'. Swab down. Swab 1/4 BFPH, 80% oil/1 hour, natural. Release packer, lower tubing to below Marmaton "B" perforations. Displace acid across perforations. Raise tubing and set packer @ 4269'. **Halliburton acidize Marmaton "B" zone perforations with 1500 gallons of 15% HCL FE-NE acid.** Pump .52 BPM @ 606#; pump 1.0 BPM @ 631#; pump 1.25 BPM @ 541#; start flush @ 1.38 BPM @ 580#; with 67 gallons of flush pumped @ 1.30 BPM @ 437#, had to shut down for water. On vacuum in 4". Down for 10 minutes. Pump remainder of flush @ 1.50 BPM with final pressure 646#. ISIP 573#; 321#/5"; on vacuum in 12". Total load = 64 barrels.

1st hour:	Swab 30.72 BFPH	0% oil.	Fluid 2200' down.
2nd hour:	Swab 19.72 BFPH	80% oil.	Fluid 3200' down.

Shut down for night.

06-22-94 SITP 27#. Fluid 3000' down (FU 1300' fluid) Marmaton "B" zone.

1st hour: Swab 17.40 BOPH 85% oil.
Release packer. Swab load water from annulus. Latch on to RBP. TOH with tubing, packer and RBP. Run 30.82' x 2-7/8" EUE slotted orange peeled mud anchor, 1.10' seating nipple, (150) joints of used 2-7/8" EUE tubing and (1) 4' x 2-7/8" EUE tubing pup joint. Set bottom of mud anchor @ 4787' KB. Shut down for night.

06-23-94 Run 2-1/2" x 2" x 18' RWTC pump with a 1-1/4" x 12' gas anchor, (1) 3/4" x 2' pony rod, (135) 3/4" plain rods, (53) 7/8" scraper rods, (1) 8', (1) 4' and (1) 2' x 7/8" pony rods, a 1-1/4" x 22' polish rod and a 1-1/2" x 10' liner. Space out and hang on clamp. Release Post & Mastin Well Service.

06-24-94 Build pumping unit pad and work on location.

06-25-94 Shut down.

06-26-94 Shut down.

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06-27-94 Set used CMI 228-246-100 Pumping Unit with a used C-106 Gas Engine.

06-28-94 Set used 4' x 20' Heater-Treater, (3) used 250 barrel WS Stock Tanks and (1) new 250 barrel closed top Water Tank. Lay leadline from well to battery.

06-29-94 Finish making connections at tank battery and well. Start well pumping @ 5:00 PM.

06-30-94 Pump 40 BO/15 hours.

07-01-94 Pump 114 BOPD.

07-02-94 Pump 105 BOPD.

07-03-94 Pump 109 BOPD.

07-04-94 Pump 103 BOPD.

07-05-94 Pump 104 BOPD.

07-06-94 Pump 102 BOPD.

07-07-94 Pump 107 BOPD.

CP 18#. Shot fluid level. Fluid 104 joints down (1425' fluid above pump). Increase SPM.

07-08-94 Pump 169 BOPD.

07-09-94 Pump 162 BOPD.

07-10-94 Pump 164 BOPD.

07-11-94 Pump 165 BOPD.

07-12-94 Pump 38 BO. Well down. Start up.