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## **WELL REPORT**

*McCoy Petroleum Corporation  
Whitmer 'S' #4-3  
130' N & 140' W of SE SW  
Section 3-30S-9W  
Kingman County, Kansas  
API #15-095-21,907*

*MPC #832 (04-31)*

*Spud: 09-15-04*

*Zenda West Prospect*

*Contractor: Sterling Drilling Company, Rig #4*

*Geologist: Tim Lauer*

*Elevations: 1637' GL 1646' KB (All measurements from KB)*

09-15-04 MIRT. Spud well at 3:45 PM. Drilled 12 1/4" hole to 240'. (Survey at 240' = 3/4°). Ran 6 joints of used 8-5/8" 28# surface casing. Tally = 226.04'. Set at 237' KB. Acid Services cemented with 250 sx of 60/40 pozmix with 2% gel, 3% CC and 1/4#/sk flocele. Plug down at 9:30 PM. Cement circulated. Strapped bottom 3 joints of casing and welded collars on next 3 joints. WOC.

09-16-04 TD 259'. Drilled out. Working on mud pump.

09-17-04 TD 1700'. Drilling ahead.

09-18-04 TD 2250'. Drilling ahead. At 1951' made connection then dropped drill string 15' when connection between kelly saver sub and drillpipe didn't hold. Trip out and changed bit and lay down 15 joints of drillpipe.

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09-19-04 TD 2967'. Circulate for samples. After CFS, pump pressure was too low. Went thru pump and changed 2 heads. Pump pressure still too low. Chain out of hole. Left 3 drill collars in hole (broke off top 4" of box end). Fish out using overshot. Waiting on drill collar inspection.

09-20-04 TD 2967'. Out of hole and on the bank. Waiting on drill collar inspection.

09-21-04 TD 3340'. Displaced mud at 3298'. Inspected 13 drill collars in derrick. Inspection found 6 drill collars with cracks. Replaced with 6 collars from yard.

09-22-04 TD 3840'. Bit trip at 3746', bit locked up. Deviation 1° @ 3746'.

09-23-04 TD 4203'. Making short trip before drilling Mississippian.

## SAMPLE TOPS

### Structure compared to

McCoy Petroleum  
Whitmer "S" #4-3  
130'N&140'W of SE SW  
Sec. 3-30S-9W  
Elev: 1646' KB

McCoy Petroleum  
Whitmer "S" #3-3  
1650'FSL&4290'FEL  
Sec. 3-30S-9W  
Elev: 1676' KB

McCoy Petroleum  
Whitmer "A" #2-10  
NW NE NW  
Sec. 10-30S-9W  
Elev: 1643' KB

Indian Cave	2385 (- 739)	-18	+ 8
Wabaunsee	2437 (- 791)	-13	+ 3
Howard	2841 (-1195)	-24	+ 8
Topeka	2947 (-1301)	-20	+16
Heebner	3361 (-1715)	-15	- 2
Lansing	3579 (-1933)	- 5	-12
Stark	3948 (-2302)	- 3	- 1
Hushpuckney	3982 (-2336)	- 2	- 1
Cherokee	4182 (-2536)	- 4	- 3
Mississippian	4228 (-2582)	- 5	- 1
RTD	4255 (-2609)		

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**Mississippian Chert 4228-4245'**: Chert; white and cream with tan and brown stain, 1/3 fresh, 2/3 sub-tripolitic. Fair to good pin-point and vugular porosity, scattered good tripolitic porosity. Very scattered slight show of free oil. Trace of gas bubbles. 450 unit hot wire gas kick.

**DST #1 4230-4245' (Mississippian)**

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

**Strong blow, OBB/9" on 1<sup>st</sup> open period. No gas to surface.**

**Strong blow, OBB/10 seconds on 2<sup>nd</sup> open period. No gas to surface.**

**Recovered 2112' of gas in pipe,**

**15' of gas cut mud.**

**FP 13-21# 13-28#**

**ISIP 672# FSIP 687#**

**Additional Mississippian Chert 4245-4255'**: Chert; white and cream, 1/3 fresh with occasional vugular porosity and patchy brown oil stain, 2/3 tripolitic with fair to good pin-point and vugular porosity. Scattered slight to fair show of free oil. Slight to fair show of gas bubbles. Patchy to saturated brown oil stain. Weak odor. 200 unit hotwire gas kick.

09-24-04 TD 4255'. On bottom with DST #2. Deviation 1 3/4° @ 4245'.

**DST #2 4245-4255' (Mississippian)**

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

**Strong blow, OBB/6" on 1<sup>st</sup> open period. No gas to surface.**

**Strong blow, OBB/15 seconds on 2<sup>nd</sup> open period.**

**Recovered 1562' of gas in pipe,**

**60' of gas and water cut mud.**

**FP 11-22# 22-35#**

**ISIP 565# FSIP 575#**

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Conditioned hole. LDDP. No openhole logs were run. Ran 100 joints of new 4 1/2" 10.5# R-3 casing. Tally with guide shoe = 4258.64'. Shoe joint with guide shoe = 32.03'. Set casing 1' off bottom @ 4254' KB. PBTB @ 4222'. Ran centralizers on joints 1, 3, and 5. RU Acid Services. Pumped 20 bbl. salt flush, 3 bbl. water, 12 bbl. mud flush and 3 bbl. water. Cemented with 125 sx of AA-2 cement with 5% Calset, 10% salt, 0.1% defoamer, 0.8% FLA-322, 5# gilsonite/sk, 0.25% CFRM and 0.75% Gasblock.. Yield 1.44 ft<sup>3</sup>/sk. Lift pressure 450#. Good circulation throughout. Landed

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plug with 1500#. Plug down at 1:30 AM on 9/25/04. Plugged rathole with 15 sx and mousehole with 10 sx using 60/40 pozmix with 2% gel. Rig released at 2:30 AM.  
WOCT.

## COMPLETION REPORT

10-01-04 MICT. Will start completion on Monday.

10-04-04 TIH with bit and 2 3/8" EUE tubing to top of plug at 4222'. RU pump and power swivel. Drilled plug and cement down to 4251' (29' below top of shoe joint). Leave 3' of cement in shoe joint. Circulated clean with KCL water. TOH with tubing and bit.

10-05-04 RU LogTech. Ran Gamma Ray- Neutron and Cement Bond Log from new PBTD up to 3400'. Run bottomhole Gamma Ray. **Perforated Mississippian from 4232' to 4242' (10' gun, 4 SPF), using 'slick' gun.** TIH with 2 3/8" tubing and packer. Set packer 1 joint above perforations. Ran swab. Made 3 runs and was dry. Show of gas vapors on last run. SION.

10-06-04 SITP 500#. Ran swab. 400' of ONFU. Swab down. RU Acid Services and **spearhead with 300 gallons of 10% MIRA acid and fracture treat Mississippian 7.5 BPM down 2 3/8" tubing with 8000 gallons Profrac 20 and 4,500# of 20/40 sand as follows:**

300 gal	10% MIRA acid
3,000 gal	Pad
1,000 gal	0.5 ppg
4,000 gal	1.0 ppg

Hole loaded at 400#. Staged acid to 800#. Pumped acid 1-3 BPM. After acid cleared perfs increased rate to 7.5 BPM. Pressure increased to 1200#. Maximum pressure 1550#. Average pressure 1450#. ISIP 500#. In 5 minutes, 171#. In 9 minutes, vacuum. SION.

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10-07-04 Tubing on vacuum. RU swab. FL 2800' FS. Made hourly test as follows.

<u>Hour</u>	<u>Pulls</u>	<u>BBLs</u>	<u>Comments</u>
1 <sup>st</sup>	6	16.7 BF	Good gas blow after 3rd pull
2 <sup>nd</sup>	4	11.69	Good gas blow after each pull
3 <sup>rd</sup>	5	13.36	Good gas blow; last pull 125 → 35 MCF in 5 mins
4 <sup>th</sup>	3	8.35	Less pulls due to lightning
5 <sup>th</sup>	5	13.36	Flowing 104 MCF; very slight trace of oil
6 <sup>th</sup>	4	10.0	Flowing 235 → 160 in 15 mins, trace of oil
7 <sup>th</sup>	4	10.0	Flowing 388 → 220 in 10 mins, 1% oil

10-08-04 SITP 620#. Released packer. Well was trying to flow. Pumped 25 bbls to kill well. Lowered tubing and tagged bottom at 4239'. Have 12' of fill. TOH with tubing and packer. TIH with sand pump and clean out hole. TOH with sand pump. TIH with tubing, pump and rods. Waiting on surface facilities and pipeline connection.

10-15-04 Set American 114 pumping unit.

10-18-04 Start installing leadline.

10-19-04 Continue installation of leadline.

10-22-04 Complete surface facility installation.

10-23-04 **Put well on the pump.**

10-24-04 Produced 175 MCF and 0 BO. Gas purchaser is Kansas Gas Service.

10-25-04 Produced 240 MCF and 0 BO.

10-26-04 Produced 220 MCF and 0 BO. CP 180#.

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