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in sanding this  
report as it  
is 1 mile SW. Glen*

## COMPLETION REPORT

<b>Operator:</b>	<u>Imperial Oil Properties</u>	<b>Elevation:</b>	<u>1547' KB</u>
<b>Well Name:</b>	<u>Sowers #20-1</u>		<u>1539' GL</u>
<b>Location:</b>	<u>720' FWL &amp; 450' FSL</u>	<b>KB Correction:</b>	<u>08'</u>
	<u>Section 20-9s-06e</u>	<b>Original ISTD:</b>	<u>4135'</u>
	<u>Kingman County, KS</u>	<b>Top of Cement:</b>	<u>3574'</u>

**09/19/05 Monday** Leiker Well Service spotted rig in and will RU in the morning. Leiker will have reverse circulating unit and power swivel on location @ 9:00 a.m.

**09/20/05 Tuesday** Crew arrived @ 9:00 a.m. and RU rig. Crew left location and drove to Spivey to pick up power swivel. TIH w/ tubing and bit @ 10:00 a.m. (Nicholas Services delivered 50 bbls. of 2% KCL water for suction/work-over pit). Tagged cement @ 4136. Drilled soft cement to 4140' and started drilling up the insert. Drilled only 6" in the next 2 hrs. TOH w/ tubing to check bit. Found one cone was locking up and would not turn. Will have Kansas Fishing Tools (KFT) bring 3 drill collars, change-over, and new bit in the morning. SDON @ 6:15 p.m.

**09/21/05 Wednesday** Crew arrived @ 8:00 a.m. and waited on Kansas Fishing Tools until 9:45 a.m. (had vehicle trouble). RU to run drill collars, tubing, and new bit. Tagged cement @ 4141' @ 11:00 a.m. Drilled ahead to 4152' (4160' KB). Circulated the well clean and TOO H w/ tubing. On the bank @ 1:45 p.m. RU 5 1/2" orbit to perforate the well. Log Tech on location @ 1:50 p.m. TIH w/ perforating gun. Tagged bottom @ 4160' KB (new ISTD). Perforated the Mississippi as follows:

### 4128' - 4131' (3 spf) w/ 39 gram charges

TOOH w/ logging tool, on the bank @ 3:45 p.m. RU and ran 5 1/2" x 2 3/8" Double Grip Model "R" packer and set the packer @ 4180' (4188' KB) with a joint of tail pipe to 4112' (4120' KB).

<u>SWAB</u>	<u>Fluid Level</u>	<u>Pulled From</u>	<u>Gauge</u>	<u>Recovery</u>
1	0'	1200'	in pit	mdy wtr
2	1000'	2400'	in pit	mdy wtr
3	2400'	3700'	in pit	mdy wtr
4	3700'	4180'	in pit	FSG & mdy wtr
5	4100'	4180'	in pit	GSG (dry run)

SION @ 5:15 p.m.

09/22/05  
Thursday

Crew arrive @ 7:45 a.m. and found 875# SITP. Blew well to pit and ran swab. Found fluid level @ 3880' (300' ONFU - 10% oil). Made two swab runs and the well dried up. Copeland Acid arrived @ 8:30 a.m. and RU to acidize well. Acidized with 500 gallons of 10% MCA. Maximum pressure was 1350# and the well treated @ 1200# @ 2.5 bpm. Well was over-displaced by an additional 9 bbls of KCL water. Total load to recover is 38.2 bbls. ISIS was 500# and the well was on a vacuum in 10 minutes. RU to swab well.

<u>SWAB</u>	<u>Fluid Level</u>	<u>Pulled From</u>	<u>Gauge/bbls</u>	<u>Recovery</u>
1 (10:10)	700'	1700'	4 bbls in pit	mdy wtr
2	1700'	2700'	1' 4"	mdy wtr
3	1700'	2700'	-	mdy wtr
4	1900'	2900'	-	mdy wtr
5	2200'	3200'	-	GSG/acid kick
6 (11:15)	3100'	4180'	1' 8"	GSG & Oil (2%)
22 bbls back				
<b>VENTING GAS AND CHANGING CUPS</b>				
7 (12:00)	2200'	4180'	-	GSG & Oil (2%)
8	2200'	4180'	-	GSG & Oil (1%)
9	2200'	4180'	-	GSG & Oil (2%)
10	2200'	4180'	-	GSG & Oil (3%)
11	2200'	4180'	-	GSG & Oil (2%)
12 (1:05)	2200'	4180'	1' 11 1/2"	GSG & Oil (3%)
38 bbls back				

RD swab and shut well in @ 2:00. SION

09/23/05  
Friday

Crew arrive @ 7:30 and found 925# SITP. Blew well down in 3 minutes and the well kicked off flowing. Flowed the well for two hours as follows:

7:45 - 8:45      Flowed 6.75 T.F (8% oil, 92% formation water)  
8:45 - 9:45      Flowed 4.25 T.F (9.50 % oil, 91.5% formation water)

Called Copeland Acid and canceled second acid job. RU to test gas volumes. Rates were as follows:

<u>Time</u>	<u>Plate Size</u>	<u>Pressure</u>	<u>MCFGPD*</u>
9:50	.750	8#	227
10:00	.750	5#	175
10:10	.750	10#	259
10:20	.750	11#	274
10:30	.750	11#	274
10:40	.750	13#	303
10:50	.750	11#	274

\* Still slugging a fair amount of fluid through test period.

09/23/05 RD swab and lubricator and shut well in. Pressure build-ups were as follows:  
 Friday  
 (Cont.)

<u>Time</u>	<u>Pressure</u>
10:52 a.m.	70 #
11:00 p.m.	700#
05:00 p.m.	975#

Packed well off, RD & released Leiker Well Service rig and Nicholas Water Service's frac tank @ 1:00 p.m. Nicholas will pull fluid from the swab pit, empty the swab tank, and remove it from the location on Monday morning.

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<b>New DDTD:</b>	4152' GL 4160' KB
<b>Tubing in the Hole:</b>	(131) joints of (used/tested) 2 3/8" set @ 4112' GL 4120' KB Packer set @ 4180' GL - 4188' KB Tail pipe @ 4112' GL - 4120' KB
<b>Rods:</b>	None
<b>Equipment on Location:</b>	(3) joints of 2 3/8" tubing @ wellhead (1) joint of 5 1/2" (15.5#) casing @ reserve pit (1) 5 1/2" x 2 3/8" (Double Grip) Model "R" packer set @ 4180' (1) 2 3/8" tubing orbit on the wellhead
<b>Equipment Returned:</b>	(3) 2 3/8" collars (4) 2 3/8" tubing subs (2', 4', 6', 8')

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**END OF COMPLETION REPORT - WAITING ON GAS CONNECTION HOOK-UP**

**PETERRA Energy Services**  
 Jeffrey A. Burk, Petroleum Geologist





