

STATE CORPORATION COMMISSION OF KANSAS
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM
ACO-1 WELL HISTORY
DESCRIPTION OF WELL AND LEASE

ORIGINAL

API NO. 15- 033-20-811-0000

County Comanche

SW - NE - SW - Sec. 16 Twp. 34S Rge. 20 X E

1950 Feet from (S)N (circle one) Line of Section

3520 Feet from (E)W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:
NE, SE, NW or SW (circle one)

Lease Name Selzer Well # 16-11

Field Name First Snow

Producing Formation Viola

Elevation: Ground 1753 KB 1766

Total Depth 6500 PBDT 6152

Amount of Surface Pipe Set and Cemented at 665 Feet

Multiple Stage Cementing Collar Used? X Yes No

If yes, show depth set 5174 Feet

If Alternate II completion, cement circulated from

feet depth to w/ sx cnt.

Fluid Management Plan
(Data must be collected from the Reserve Pit)

Chloride content N/A ppm Fluid volume N/A bbls

Watering method used By evaporation

Location of fluid disposal if hauled offsite:

Operator Name Samuel Gary Jr. & Associates, Inc.

Lease Name Selzer License No. 3882

SW/4 Quarter Sec. 16 Twp. 34 S Rng. 20 E/W

County Comanche Docket No.

Operator: License # 3882

Name: Samuel Gary Jr. & Associates, Inc.

Address 1775 Sherman Street
Suite 1925

City/State/Zip Denver, CO 80203

Purchaser: Enron

Operator Contact Person: Hugh Harvey

Phone (303) 831-4673

Contractor: Name: Eagle Drilling

License: 5380

Wellsite Geologist: T. M. McCoy

Designate Type of Completion
 New Well Re-Entry Workover

Oil SWD SLOW Temp. Abd.
 Gas ENHR SIGW
 Dry Other (Core, WSW, Explos. Cathodic Protection)

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If Workover/Re-Entry: old well info as follows: 3-2-92

MAR 2 1992

Operator:

Well Name:

Comp. Date Old Total Depth

Deepening Re-perf. Conv. to Inj/SWD
 Plug Back PBDT
 Commingled Docket No.
 Dual Completion Docket No.
 Other (SWD or Inj?) Docket No.

02/12/91 02/22/91 04/11/91
Spud Date Date Reached TD Completion Date

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information on side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature [Signature]
Title President Date 02/18/92

Subscribed and sworn to before me this 18th day of February, 1992.

Notary Public [Signature]
Joan S. Lucero
Date Commission Expires 01/21/1996

K.C.C. OFFICE USE ONLY
F Letter of Confidentiality Attached
C Wireline Log Received
C Geologist Report Received
Distribution
 KCC SWD/Rep NGPA
 KGS Plug Other (Specify)

Operator Name Samuel Gary Jr. & Associates, Inc. Lease Name Selzer Well # 16-11
 Sec. 16 Twp. 34S Rge. 20 East County Comanche
 West

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface during test. Attach extra sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken (Attach Additional Sheets.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Stone Corral	786	798
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Wabaunsee	3195	4008
List All E.Logs Run: Array Induction Elec. Log Compensated Neutron Compensated Photo-Density Log Borehole Compensated Sonic Integrated Transit Time Log		Stark	4682	4705
		Marmaton	4813	4896
		Chester	5049	5544
		Osage	5544	6035
		Viola	6035	6208
		Simpson	6208	6357
		Arbuckle	6357	----

CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs./Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12-1/4"	8-5/8"	24 #	665	Common	200	3% CaCl2
Production	7-7/8"	5-1/2"	15.5 #	6200	Light	100	3% CaCl2
					50/50 poz	165	10% salts, 15 gel
					50/50 poz	250	10% salt, 12.5 bpm

ADDITIONAL CEMENTING/SQUEEZE RECORD					
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives	
<input type="checkbox"/> Perforate					
<input type="checkbox"/> Protect Casing					
<input type="checkbox"/> Plug Back TD					
<input type="checkbox"/> Plug Off Zone					

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type	Acid, Fracture, Shot, Cement Squeeze Record	
	Specify Footage of Each Interval Perforated	(Amount and Kind of Material Used)	Depth
4	6050-6057	1000 gallons 15% HCL	6050-57

TUBING RECORD		Size 2-7/8"	Set At 5006'	Packer At N/A	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Inj.		Producing Method <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)			
04/12/91					
Estimated Production Per 24 Hours	Oil 38 Bbls.	Gas 60 Mcf	Water 62 Bbls.	Gas-Oil Ratio 1579	Gravity 43

Disposition of Gas: Vented Sold Used on Lease (If vented, submit ACO-18.)

METHOD OF COMPLETION: Open Hole Perf. Dually Comp. Commingled Other (Specify) _____

Production Interval: Viola
6050-6057

ORIGINAL

GEOLOGIST'S REPORT

15-033-20811-0000

Samuel Gary Jr. & Associates, Inc.
Selzer #16-11

DISCUSSION

Production casing was run at the Samuel Gary Jr. & Associates, Inc. Selzer #16-11 for completion of the principal objective, Ordovician Viola "B", and to test secondary objectives including Pennsylvanian Lansing.

Structure

The Selzer #16-11 tested a seismically defined high. Based on apparent bed thickness compared to those at the Samuel Gary Jr. & Associates Lemon Ranch #14-10, NWSE Sec. 14, T34S, R20W, the high is reflected by 90 ft. of thinning in the Pennsylvanian Wabaunsee - Mississippian Chester, and by 40 ft. of thinning in the Ordovician Viola Arbuckle interval. The Mississippian Osage at the Selzer #16-11, however, is 70 ft. thicker than at the Lemon Ranch #14-10, and may record deposition in a down-dropped block or steep dips.

Compared to the Lemon Ranch #14-10, the Selzer #16-11 is about flat at the Wabaunsee, 50 ft. high at the Heebner, 90 ft. high at the Chester, 120 ft. high at the Osage, 50 ft. high at the Viola, and 100 ft. high at the Arbuckle.

The high structural setting undoubtedly accounts for the multiplicity of shows at the Selzer #16-11.

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Pennsylvanian

Primary Pennsylvanian zone is Lansing interval - 4356'. Lansing intervals 4312'-4324' and 4550' - 4555' should be tested. These limestones are characterized by good drilling breaks, fair to good log porosity, and Sw values from 27% to 34%.

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Secondary zones include: 1) Toronto interval 4190'-4196' where log porosity is fair and Sw = 45%, 2) Marmaton interval 4861'-4870' where log porosity is rather low, Sw = 36%, 3) Pawnee interval 4908'-4920' where log porosity is fair and Sw = 52%, 4) Stark interval 4692'-4698' where log porosity is rather low and Sw = 28%, and 5) Swope intervals 4738'-4741' and 4746'-4750' where log porosity is low, Sw = 40%.

Lansing intervals 4726'-4281' and 4526'-4529' exhibit low log porosity and high Sw values.

GEOLOGIST'S REPORT

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Mississippian

Shows from Chester 5051'-5060' and 5184'-5204' and from Osage 5558'-5578' are considered less important than the secondary Pennsylvanian shows. Porosity in the Chester is low; Sw values are variable. Visible porosity in the Osage is low, log porosity is apparently influenced by clay; Sw values are high.

Viola "B"

1650 ft. of free oil and highly gas cut oil were produced on DST #1. Gas production during the test varied from 536 to 119 MCFPD. No water was recovered. Fracturing is indicated. No log calculations are presented from the Viola "B". Additional work is required to determine values of log calculation parameters which yield results consistent with the indicated discovery.

Tom Fertal
Senior Geologist

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FORMATION TOPS

	MD Log Top	1766 KB Datum
PERMIAN		
Stone Corral	786	+ 980
Base Stone Corral	798	+ 968
Council Grove	2636	- 870
Cottonwood	2812	-1046
PENNSYLVANIAN		
Wabaunsee	3195	-1429
Elgin	4008	-2242
Heebner	4102	-2336
Toronto	4110	-2344
Lansing	4270	-2504
Stark	4682	-2916
Swope	4705	-2939
Marmaton	4813	-3047
Pawnee	4896	-3130
Cherokee/Atoka Undivided	4956	-3190
Base Atoka Limestone	5040	-3274
MISSISSIPPIAN		
Chester	5049	-3283
Osage	5544	-3777
ORDOVICIAN		
Viola "A"	6035	-4260
Viola "B"	6044	-4269
Middle Viola Marker	6106	-4328
Simpson	6208	-4426
Simpson Shale (Main Body)	6308	-4522
Simpson Sandstone	6333	-4546
Arbuckle	6357	-4569
TD Logger	6499	
TD Driller	6500	
TD Driller Final SLM	6502	

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GEOLOGIST'S REPORT

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WELL DATA

OPERATOR: SAMUEL GARY JR. & ASSOCIATES, INC.

WELL NAME: SELZER #16-11

LOCATION: 1950' FNL & 1760' FWL
NESW Sec. 16, T34S, R20W
Comanche County, Kansas

ELEVATIONS: 1755' GL 1753' Graded GL 1766' KB

FIELD: Wildcat

ROAD DIRECTIONS: From Protection, S 5.5 miles on main county road,
W 0.5 mile; S 2.3 miles; before bridge, W and S 1
mile on lease road to location.

SURFACE CASING: 17 joints 8-5/8" 28# set at 658 KB.

SPUD DATE: 12 February 1991 1:30 p.m.

DRILLING COMPLETED: 22 February 1991 2:30 p.m.

TOTAL DEPTH: 6500' Driller 6502' SLM 6499' Logger

MAXIMUM
TEMPERATURE: 127 deg. F

LAST FORMATION
PENETRATED: Arbuckle

WELL STATUS: Set 5-1/2" production casing

OPERATOR
REPRESENTATIVES: Tom Fertal - Geologist
Dan Hall - Engineer
Tim Howard - Engineer

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ORIGINAL

DRILL STEM TEST #1

Halliburton ran hookwall straddle test of Viola "B" after logs.

TEST INTERVAL: 5998' - 6088' 90 ft. open

PACKERS:

Upper Packers: 5992'

5998'

Lower Packers: 6088'

6094'

Hookwall: 6156'

PRESSURES & TIMES: Recorder Depth: 6083'

Initial Hydrostatic:	2787 psi	
Initial Flow:	380 psi to 352 psi	15 min
Initial Shut-In:	1159 psi	30 min
Final Flow:	398 psi to 582 psi	90 min
Final Shut-In:	2248 psi	180 min
Final Hydrostatic:	2787 psi	

RECOVERY: 90 ft. of free oil, 1560 ft. of very gassy, slightly mud cut oil. Flowline drip sample: 95% condensate, 5% gas. Top sample: 43 gravity oil. Bottom sample: 10% mud, 10% water (18,500 ppm chlorides), 50% gas, 30% oil. Reversed out.

SAMPLER: 650 psi 3.158 cu. ft. of gas
1200 cc oil

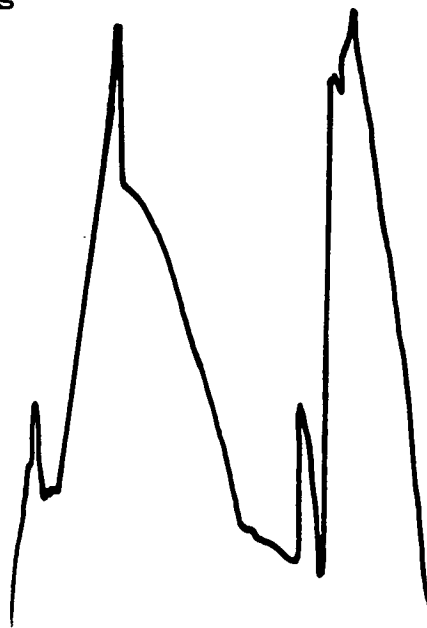
BLOW: Tool opened with strong blow. On 3/4" choke during 1st open, gas to surface in 4 min at 536 MCFPD, decreased to 450 MCFPD. On 1/2" choke during 2nd open, gas to surface varied from 119 MCFPD to 169 MCFPD.

APPARENT SALINITY
Pit mud: 6500 ppm chlorides

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TRACED BY
T. M. McCall