

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

SIDE ONE

TIGHT HOLE!!

Operator: License # 5056

Name: F. G. Holl Company

Address 6427 E. Kellogg

P.O. Box 780167

City/State/Zip Wichita, KS 67278-0167

Purchaser: N.C.R.A.

Operator Contact Person: Elywn H. Nagel

Phone (316) 684-8481

Contractor: Name: Sterling Drilling Company

License: 5142

Wellsite Geologist: Brent B. Reinhardt

Designate Type of Completion

New Well Re-Entry Workover

Oil SWD Temp. Abd.

Gas Inj Delayed Comp.

Dry Other (Core, Water Supply, etc.)

If **OWMO**: old well info as follows:

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

Drilling Method:

Mud Rotary Air Rotary Cable

9/15/90 9/21/90 11/13/90

Spud Date Date Reached TD Completion Date

API NO. 15- 185-22,718

County Stafford

SW SW NE Sec. 17 Twp. 21s Rge. 11w East West

2970 Ft. North from Southeast Corner of Section

2310 Ft. West from Southeast Corner of Section

(NOTE: Locate well in section plat below.)

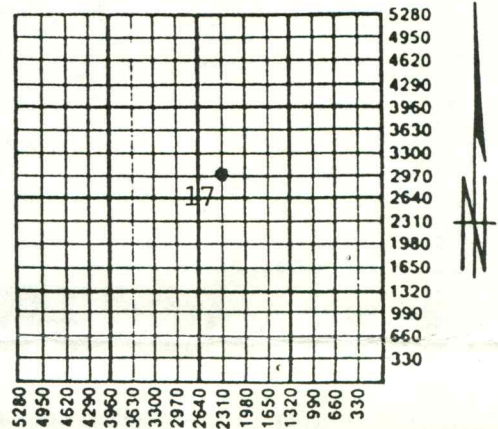
Lease Name SMITH ESTATE "A" Well # 5-17

Field Name Snider South Ext.

Producing Formation Simpson Sand

Elevation: Ground 1782 KB 1791

Total Depth 3550' PBTD 3460'



Amount of Surface Pipe Set and Cemented at 273' Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set _____ Feet

If Alternate II completion, cement circulated from _____

feet depth to _____ w/ _____ sx cmt.

INSTRUCTIONS: This form shall be completed in triplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date of any well. Rule 82-3-130, 82-3-107 and 82-3-106 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 drillers time log 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. Any recompletion, workover or conversion of a well requires filing of ACO-2 within 120 days from commencement date of such work.

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.

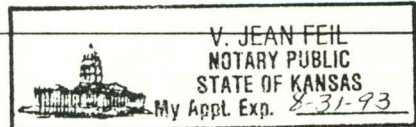
Signature Elywn H. Nagel

Title Elwyn H. Nagel, Manager Date 2/14/91

Subscribed and sworn to before me this 14th day of February, 1991.

Notary Public V. Jean Feil

Date Commission Expires _____



K.C.C. OFFICE USE ONLY

F Letter of Confidentiality Attached
C Wireline Log Received
C Drillers Timelog Received

Distribution

KCC SWD/Rep NGPA
 KGS Plug Other
(Specify)

SIDE TWO

Operator Name F. G. Holl Company Lease Name SMITH ESTATE "A" Well # 5-17
 Sec. 17 Twp. 21s Rge. 11w East County Stafford
 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 Yes No
 (Attach Additional Sheets.)
 Samples Sent to Geological Survey Yes No
 Cores Taken Yes No
 Electric Log Run Yes No
 (Submit Copy.)

Formation Description			
Name	Top	Bottom	
ANHYDRITE	546 +1245	BROWN LIME	3126 -1335
B/ANHYDRITE	567 +1224	LANSING	3144 -1353
TARKIO	2464 - 673	BKC	3382 -1591
BERN	2543 - 752	MARMATON	NP NP
HOWARD	2615 - 824	CONGLOMERATE	3386 -1595
SEVERY	2671 - 880	VIOLA	NP NP
TOPEKA	2712 - 921	SIMPSON SH	3408 -1617
HEEBNER	3000 -1209	SIMPSON SD	3418 -1627
TORONTO	3019 -1228	ARBUCKLE	3466 -1675
DOUGLAS	3031 -1240	RTD	3550 -1759

See Attached Sheet.

CASING RECORD <input checked="" type="checkbox"/> New <input checked="" 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"	23#	273'	60/40 POZ	225	2%Gel, 3%CC
Production	7 7/8"	4 1/2"	10.5#	3548'	Lite	100	Salt, Gils.
					50/50 POZ	125	

PERFORATION RECORD		Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	
Shots Per Foot	Specify Footage of Each Interval Perforated		Depth
4	3507, 3495, 3491, 3487, 3471 (ARB)	SWB: No Shows, AC:100gls 15% DSFF, SWB: 31 BBLs TOTAL w/TO	3480'
4	3418-3423 (SIMPSON SAND)	SWB: No Shows, FR: 20,000gls CROSS-LINK GELL, 20/40 SAND	3460'
		SWB: SO	

TUBING RECORD			
Size	Set At	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
2"	3430'		

Date of First Production	Producing Method <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)					
11/15/90						
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity	
	5	0	0			

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

METHOD OF COMPLETION Open Hole Perforation Dually Completed Commingled Other (Specify) _____

Production Interval 3418-3423 (SIMPSON SAND)
TIGHT HOLE!!

F. G. HOLL COMPANY

6427 EAST KELLOGG - P.O. BOX 780167
WICHITA, KS 67278-0167

ACO-1 (Cont.)

SMITH ESTATE #5-17
SW SW NE, Sec 17-21s-11w
Stafford County, KS
API# 15-185-22,718

DST #1 (3270-3310) LKC "H" - "I"

- 1) WB Dead in 3 mins
- 2) NB, Flush, WB Dead 2"

REC: 10 DM

IHP: 1624	IFP: 55-40:15"	ISIP: 59:15"	BHT: 109F
FHP: 1639	FFP: 54-51:15"	FSIP: 56:15"	

DST #2 (3376-3430) CONGLOMERATE - SIMPSON SAND

- 1) WB Dead in 3", Flush, WB Dead 2"
- 2) NB

REC: 10' Slt OIL SPK MUD

IHP: 1736	IFP: 77-67:15"	ISIP: 128:45"	BHT: 111F
FHP: 1663	FFP: 85-75:15"	FSIP: 124:45"	

DST #3 (3463-3478) ARBUCKLE

- 1) WB Dead 4", Flush, No Help
- 2) NB

REC: 80' DM w/TR OIL (no wtr)

IHP: 1716	IFP: 50-54:15"	ISIP: 1040:30"	BHT: 112F
FHP: 1693	FFP: 71-63:30"	FSIP: 897:30"	

DST #4 (3477-3485) ARBUCKLE

- 1) WB Dead 10", Lost 5-10' DM Before Packer Set
- 2) NB, Flush, No Help

REC: 70' DM w>Show Oil on Tool

60' WTY MUD

130' Total

IHP: 1738	IFP: 68-79:15"	ISIP: 1124:30"	BHT: 113F
FHP: 1730	FFP: 111-99:15"	FSIP: 1127:30"	

DST #5 (3484-3500) ARBUCKLE

- 1) FB 1 1/4" increasing to 8" then decreasing to 1/4" in bucket
- 2) WB 1/4" and dead in 14"

REC: 450' Slt O&GMW (Less than 1% Oil on top)

IHP: 1759	IFP: 51-108:30"	ISIP: 1140:60"	BHT: 111F
FHP: 1719	FFP: 163-198:30"	FSIP: 1119:60"	

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DESCRIPTION OF WELL AND LEASE

Operator: License # 5056

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Purchaser: N. C. R. A.

Operator Contact Person: Elwyn H. Nagel

Phone () (316) 684-8481

Contractor: Name: Sterling Drilling Company

License: 5142

Wellsite Geologist: Brent B. Reinhardt

Designate Type of Completion

New Well Re-Entry Workover

Oil SWD SIOW Temp. Abd.
 Gas ENHR SIGW
 Dry Other (Core, WSW, Expl., Cathodic, etc)

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

Operator: F. G. Holl Company

Well Name: SMITH ESTATE "A" #5-17

Comp. Date 12/03/91 Old Total Depth 3550'

Deepening Re-perf. Conv. to Inj/SWD
 Plug Back 3460' PBDT
 Commingled Docket No. _____
 Dual Completion Docket No. _____
 Other (SWD or Inj?) Docket No. _____
 Reacidized

9/15/90 9/21/90 12/03/91
Spud Date Date Reached TD Completion Date

API NO. 15- 185-22,718

County Stafford

C - SW - SW - NE Sec. 17 Twp. 21s Rge. 11w X E

2970 Feet from S (circle one) Line of Section

2310 Feet from E (circle one) Line of Section

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

Lease Name SMITH ESTATE "A" Well # 5-17

Field Name Snider South Ext.

Producing Formation Simpson Sand

Elevation: Ground 1782' KB 1791'

Total Depth 3550' PBDT 3460'

Amount of Surface Pipe Set and Cemented at 273 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set _____ Feet

If Alternate II completion, cement circulated from _____

feet depth to _____ w/ _____ sx cmt.

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

Chloride content NA ppm Fluid volume NA bbls

Dewatering method used Evaporation

Location of fluid disposal if hauled offsite:

Operator Name _____

Lease Name _____ License No. _____

_____ Quarter Sec. _____ Twp. _____ S Rng. _____ E/W

County _____ Docket No. _____

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.

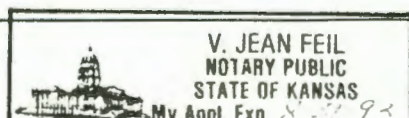
Signature Elwyn H. Nagel

Title Elwyn H. Nagel, Manager Date 12/30/91

Subscribed and sworn to before me this 30th day of December, 19 91.

Notary Public V. Jean Feil

Date Commission Expires _____



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

Operator Name F. G. Holl Company Lease Name SMITH ESTATE "A" Well # 5-17

Sec. 17 Twp. 21s Rge. 11w East West
 County Stafford

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 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	See Original ACO-1.		
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Same as on the Original ACO-1.		
List All E.Logs Run:	See Original ACO-1. Same as on Original.			

CASING RECORD <input checked="" type="checkbox"/> New <input checked="" 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" (N)	23#	273'	60/40 POZ	225	2%Gel, 3%CC
Production	7 7/8"	4 1/2" (N&U)	10.5#	3548'	Lite	100	Salt, Gils.
					50/50 POZ	125	

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 Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
4 JSPF	3418-3423' (Simpson Sand)	AC: Dumped 500 gls 10% acetic acid dumped on perforations	3423'

TUBING RECORD	Size 2 3/8"	Set At 3430'	Packer At None	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)			
12/3/91				
Estimated Production Per 24 Hours	Oil Bbls. 6.5	Gas Mcf	Water Bbls. 0	Gas-Oil Ratio Gravity

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: 3418-3423'
Simpson Sand