

SIDE ONE

TIGHT HOLE!!

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

API NO. 15- 185-22,718 -00-00
County Stafford **ORIGINAL**
SW SW NE Sec. 17 Twp. 21s Rge. 11w East
 West

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 **OWO**: 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

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.

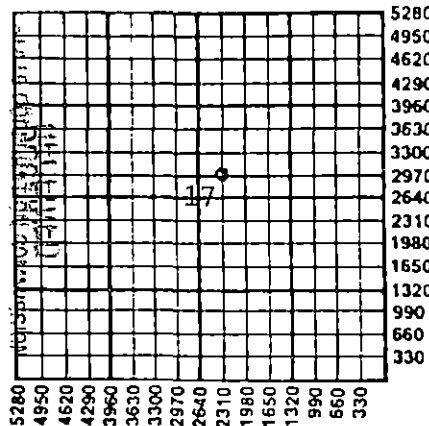
Producing Formation Simson Sand

Elevation: Ground 1782 KB 1791

Total Depth 3550' PBTD 3460'

CONSERVATION DIVISION
Wichita, Kansas

FEB 28 1991



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.

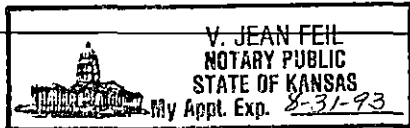
All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

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			
		<input checked="" type="checkbox"/> Log	<input type="checkbox"/> Sample		
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 New 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	

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

TUBING RECORD Size 2" Set At 3430' Packer At _____
 Liner Run Yes No

Date of First Production 11/15/90 Producing Method Flowing Pumping Gas Lift Other (Explain)
 Estimated Production Per 24 Hours: Oil 5 Bbls. Gas 0 Mcf Water 0 Bbls. Gas-Oil Ratio _____ Gravity _____

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

ORIGINAL

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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Wichita, Kansas

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15.185.22718.0000

P.O. BOX 951046
DALLAS, TX 75395-1046



INVOICE

HALLIBURTON SERVICES

ORIGINAL

A Halliburton Company

INVOICE NO.	DATE
018539	09/15/1990

WELL CASE NO./PLANT NAME		WELL/PLANT LOCATION		STATE	WELL/PLANT OWNER
SMITH ESTATE A 5-17		STAFFORD		KS	SAME
SERVICE LOCATION	CONTRACTOR	JOB PURPOSE			TICKET DATE
GREAT BEND	STERLING DRILLING	CEMENT SURFACE CASING			09/15/1990
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE NO.
392900	V.L. THOMPSON			COMPANY TRUCK	01625

F G HOLL
P O BOX 158
BELPRE, KS 67519

DIRECT CORRESPONDENCE TO:
SUITE 1300
LIBERTY TOWER
100 BROADWAY AVENUE
OKLAHOMA CITY, OK 73102-0000

PRICE REF. NO.	DESCRIPTION	QUANTITY	U/M	UNIT PRICE	AMOUNT
PRICING AREA - MID CONTINENT					
000-117	MILEAGE	21	MI		
		1	UNT		
001-016	CEMENTING CASING	274	FT		
		1	UNT		
030-503	WOODEN PLUG	8 5/8	IN		
		1	EA		
504-308	STANDARD CEMENT	135	SK		
506-105	POZMIX A	90	SK		
506-121	HALLIBURTON-GEL 2X	4	SK		
509-406	ANHYDROUS CALCIUM CHLORIDE	6	SK		
500-207	BULK SERVICE CHARGE	237	CFT		
500-306	MILEAGE CMTG MAT DEL OR RETURN	212.28	TMI		
INVOICE SUBTOTAL					
DISCOUNT - (BID)					
INVOICE BID AMOUNT					
*- KANSAS STATE SALES TAX					
*- BARTON COUNTY SALES TAX					
INVOICE TOTAL - PLEASE PAY THIS AMOUNT =====>					

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CONSERVATION DIVISION
Wichita, Kansas

TERMS INVOICES PAYABLE NET BY THE 20TH OF THE FOLLOWING MONTH AFTER DATE OF INVOICE UPON CUSTOMER'S DEFAULT IN PAYMENT OF CUSTOMER'S ACCOUNT BY THE LAST DAY OF THE MONTH FOLLOWING THE MONTH IN WHICH THE INVOICE IS DATED. CUSTOMER AGREES TO PAY INTEREST THEREON AFTER DEFAULT AT THE HIGHEST LAWFUL CONTRACT RATE APPLICABLE BUT NEVER TO EXCEED 18% PER ANNUM IN THE EVENT IT BECOMES NECESSARY TO EMPLOY A LAWYER TO

CUSTOMER COPY

P.O. BOX 951046
DALLAS, TX 75395-1046



INVOICE

HALLIBURTON SERVICES

A Halliburton Company

INVOICE NO.	DATE
018519	09/21/1990

WELL LEASE NO./PLANT NAME		WELL/PLANT LOCATION		STATE	WELL/PLANT OWNER
SMITH ESTATE "A" S-17		STAFFORD		KS	SAME
SERVICE LOCATION		CONTRACTOR	JOB PURPOSE		TICKET DATE
GREAT BEND		STERLING DRILLING CO	CEMENT PRODUCTION CASING		09/21/1990
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE NO.
392900	DELMAR MANNING			COMPANY TRUCK	02164

F G HOLL
P O BOX 158
BELPRE, KS 67519

DIRECT CORRESPONDENCE TO:
SUITE 1300
LIBERTY TOWER
100 BROADWAY AVENUE
OKLAHOMA CITY, OK 73102-0000

PRICE REF. NO.	DESCRIPTION	QUANTITY	U/M	UNIT PRICE	AMOUNT
000-117	PRICING AREA - MID CONTINENT MILEAGE	21	MI		
		1	UNT		
001-016	CEMENTING CASING	3547	FT		
		1	UNT		
030-018	CEMENTING PLUG SW, PLASTIC TOP	4 1/2	IN		
		1	EA		
019-241	CASING SWIVEL W/O WALL CLEANER	1	JOB		
12A	GUIDE SHOE - 4 1/2" 8RD THD.	1	EA		
825.201					
24A	INSERT FLOAT VALVE - 4 1/2" 8RD	1	EA		
815.1910					
27	FILL UP UNIT 4 1/2"-5"	1	EA		
815.1911					
40	CENTRALIZER 4-1/2" MODEL S-4	4	EA		
807.93004					
018-317	SUPER FLUSH	12	SK		
504-316	HALLIBURTON LIGHT W/STANDARD	100	SK		
504-308	STANDARD CEMENT	63	SK		
506-105	POZMIX A	62	SK		
506-121	HALLIBURTON-GEL 2%	2	SK		
509-968	SALT BLENDED	1100	LB		
509-968	SALT NOT MIXED	400	LB		
508-292	GILSONITE, SACKED	650	LB		
507-210	FLOCELE	16	LB		
508-087	TUF CEMENT FIBERS NO 2 (POLYMER)	16	LB		
507-775	HALAD-322	79	LB		
500-207	BULK SERVICE CHARGE	260	CFT		
500-306	MILEAGE CMTS MAT DEL OR RETURN	207.18	TMI		
INVOICE SUBTOTAL					

***** CONTINUED ON NEXT PAGE *****

TERMS: INVOICES PAYABLE NET BY THE 20TH OF THE FOLLOWING MONTH AFTER DATE OF INVOICE. UPON CUSTOMER'S DEFAULT IN PAYMENT OF CUSTOMER'S OBLIGATIONS BY THE LAST DAY OF THE MONTH FOLLOWING THE MONTH IN WHICH THE INVOICE IS DUE, THE CUSTOMER AGREES TO PAY INTEREST THEREON AFTER DEFAULT AT THE HIGHEST LEGAL RATE APPLICABLE BUT NEVER TO EXCEED 18% PER ANNUM IN THE EVENT IT BECOMES NECESSARY TO EMPLOY AN ATTORNEY TO