

SIDE ONE

ORIGINAL

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

Operator: License # 5056
Name: F. G. Holl Company
Address 6427 E. Kellogg
P.O. Box 780167
City/State/Zip Wichita, KS 67278-0167
Purchaser: Koch Oil Company
Operator Contact Person: Elwyn H. Nagel
Phone (316) 684-8481
Contractor: Name: Sterling Drilling Company
License: 5142

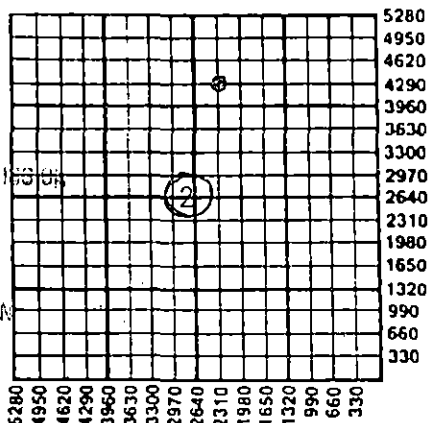
Wellsite Geologist: Bryce Bidleman
Designate Type of Completion
 New Well Re-Entry Workover
 Oil SWD Temp. Abd.
 Gas Inj Delayed Completion
 Dry Other (Core, Water Supply, etc.)

If **OWWO**: old well info as follows:
Operator: _____
Well Name: _____
Comp. Date _____ Old Total Depth _____

Drilling Method:
 Mud Rotary Air Rotary Cable
6/11/90 6/15/90 8/6/90
Spud Date Date Reached TD Completion Date

API NO. 15- 185-22,685.0000
County Stafford
SW NW NE Sec. 2 Twp. 21S Rge. 11W East West
4290 Ft. North from Southeast Corner of Section
2310 Ft. West from Southeast Corner of Section
(NOTE: Locate well in section plat below.)
Lease Name W. A. RUGAN 'D' Well # #5-2
Field Name Rugan
Producing Formation Conglomerate
Elevation: Ground 1765' KB 1774'
Total Depth 3460' PBTD None

RECEIVED
SEP 27 1990
KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION
Wichita, Kansas

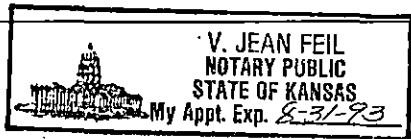


Amount of Surface Pipe Set and Cemented at 275' (KB) Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set _____ Feet
If Alternate II completion, cement circulated from _____
feet depth to _____ w/ _____ sx cmt.

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 Elwyn H. Nagel
Title Elwyn H. Nagel, Manager Date 9/26/90
Subscribed and sworn to before me this 26th day of September, 19 90.
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 W. A. RUGAN "D" Well # 5-2
 Sec. 2 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 <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (Attach Additional Sheets.) Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (Submit Copy.)	<p style="text-align: center;">Formation Description</p> <input checked="" type="checkbox"/> Log <input type="checkbox"/> Sample <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:30%;">Name</th> <th style="width:20%;">Top</th> <th style="width:30%;">Bottom</th> <th style="width:20%;"></th> </tr> </thead> <tbody> <tr> <td>Howard</td> <td>2554 (-780)</td> <td>Conglom Cht</td> <td>3340 (-1566)</td> </tr> <tr> <td>Topeka</td> <td>2658 (-884)</td> <td>Simpson SD</td> <td>3386 (-1612)</td> </tr> <tr> <td>Heebner</td> <td>2940 (-1166)</td> <td>Arbuckle</td> <td>3415 (-1641)</td> </tr> <tr> <td>Toronto</td> <td>2962 (-1188)</td> <td>RTD</td> <td>3460 (-1686)</td> </tr> <tr> <td>Douglas SH</td> <td>2970 (-1196)</td> <td>LTD</td> <td>3460 (-1686)</td> </tr> <tr> <td>Douglas SD</td> <td>3038 (-1264)</td> <td></td> <td></td> </tr> <tr> <td>Brown Lime</td> <td>3070 (-1296)</td> <td></td> <td></td> </tr> <tr> <td>Lansing</td> <td>3093 (-1319)</td> <td></td> <td></td> </tr> <tr> <td>BKC</td> <td>3321 (-1547)</td> <td></td> <td></td> </tr> </tbody> </table>	Name	Top	Bottom		Howard	2554 (-780)	Conglom Cht	3340 (-1566)	Topeka	2658 (-884)	Simpson SD	3386 (-1612)	Heebner	2940 (-1166)	Arbuckle	3415 (-1641)	Toronto	2962 (-1188)	RTD	3460 (-1686)	Douglas SH	2970 (-1196)	LTD	3460 (-1686)	Douglas SD	3038 (-1264)			Brown Lime	3070 (-1296)			Lansing	3093 (-1319)			BKC	3321 (-1547)		
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DST#1 (3362-3387) CONGLOMERATE
 1) WB 1" in bucket
 2) W Surging blow dead in 16 mins.
 REC: 120' Thin Mud with Trace Oil
 IHP: 1663 IFP: 55-41:30" ISIP: NA:60"
 FHP: 1671 FFP: 110-99:30" FSIP: 752:60"
 BHT: 106F

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)	24#	275'	60/40 POZ	225	2%Gel, 3%CC
Production	7 7/8"	4 1/2" (N&U)	10.5#	3456'	Lite	50	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			
1 SPF	3344, 45, 46, 47, 49, 50, 53, 70, 71, 72, 73, 74, 75, 76, 77, 78 (CONGLOMERATE)			Spotted AC: 500gls 10%Acetic Perforated AC: 670gls 15% DSFE FRAC: 31,700gls Cross-Link Gel (19500# 20/40, 21000# 12/20 sand)			3378'
TUBING RECORD				Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
	Size	Set At	Packer At				
	2 3/8"	3340'	None				
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)					
8/6/90							
Estimated Production Per 24 Hours		Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity	
		4	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 Conglomerate (3344-3378)

15.185.22685.0000

ORIGINAL DALLAS, TX 75395-1046

INVOICE

HALLIBURTON SERVICES

A Halliburton Company

INVOICE NO.	DATE
000228	06/11/1990

WELL LEASE NO./PLANT NAME		WELL/PLANT LOCATION		STATE	WELL/PLANT OWNER
W.A. RUGAN D		STAFFORD		KS	SAME
SERVICE LOCATION	CONTRACTOR	JOB PURPOSE		TICKET DATE	
GREAT BEND	STERLING DRILLING	CEMENT SURFACE CASING		06/11/1990	
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER PO NUMBER	SHIPPED VIA	FILE NO.
392900	V.L. THOMPSON			COMPANY TRUCK	96432

F G HOLL
P O BOX 158
BELPRE, KS 67519

DIRECT CORRESPONDENCE TO:
SUITE 600
COLORADO DERBY BUILDING
WICHITA, KS 67202-0000

PRICE REF. NO.	DESCRIPTION	QUANTITY	UNIT	PRICE	AMOUNT
000-117	PRICING AREA - MID-CONTINENT MILEAGE	20	MI		
001-016	CEMENTING CASING	277	FT		
030-503	WOODEN PLUG	1	UNT		
504-308	STANDARD CEMENT	8.575	LN		
506-105	POZHIX-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	202.17	TMI		

INVOICE SUBTOTAL
DISCOUNT-(BID)
INVOICE BID AMOUNT

*-KANSAS STATE SALES TAX
*-BARTON COUNTY SALES TAX

STATE COMMISSION
STATE REGULATION
SEP 27 1990
CONSERVATION DIVISION
Wichita, Kansas

INVOICE TOTAL - PLEASE PAY THIS AMOUNT \$1,844.70

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 AN ATTORNEY TO ENFORCE COLLECTION OF SAID ACCOUNT, CUSTOMER AGREES TO PAY ALL COLLECTION COSTS AND ATTORNEY FEES IN THE AMOUNT OF 20% OF THE AMOUNT OF THE UNPAID ACCOUNT.

INVOICE

HALLIBURTON SERVICES

A Halliburton Company

INVOICE NO.	DATE
000284	06/16/1990

WELL LEASE NO./PLANT NAME	WELL/PLANT LOCATION	STATE	WELL/PLANT OWNER
MUGAN D-5	STAFFORD	KS	SAME
SERVICE LOCATION	CONTRACTOR	JOB PURPOSE	TICKET DATE
WREAT BEND	STERLING DRILLING	CEMENT PRODUCTION CASING	06/16/1990
ACCOUNT NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER
92900	DELMAR MANNING		
SHIPPED VIA			FILE NO.
COMPANY TRUCK			96838

F G HOLL
P O BOX 158
BELPRE, KS 67519

R

DIRECT CORRESPONDENCE TO:
SUITE 600
COLORADO DERBY BUILDING
WICHITA, KS 67202-0000

ITEM NO.	DESCRIPTION	QUANTITY	UM	UNIT PRICE	AMOUNT
000-117	TRIPICING AREA - MID CONTINENT MILEAGE	20	MI		
001-016	CEMENTING CASING	1	UNT		
030-018	CEMENTING PLUG SW, PLASTIC TOP	3456	FT		
018-317	SUPER FLUSH	1	UNT		
12A	GUIDE SHOE - 4 1/2" 8RD THD.	4	1/2 IN		
825.201	INSERT FLOAT VALVE - 4 1/2" 8RD	1	EA		
24A	FILL-UP UNIT 4 1/2"-5"	12	SK		
815.19101	CENTRALIZER 4-1/2" MODEL S-4	1	EA		
27	HALLIBURTON LIGHT W/STANDARD	3	EA		
815.19113	STANDARD CEMENT	50	SK		
40	POZMIX A	63	SK		
807.93004	HALLIBURTON-GEL 2%	62	SK		
504-316	SALT	2	SK		
504-308	SALT	1100	LB		
506-105	SALT	400	LB		
506-121	GILSONITE, SACKED	650	LB		
509-968	HALAD-322	79	LB		
509-968	FLOCELE	16	LB		
508-292	TUF CEMENT FIBERS NO 1 (NYLON)	16	LB		
507-775	BULK SERVICE CHARGE	210	CFT		
507-210	MILEAGE CMTG MAT DEL OR RETURN	175.81	TMI		
508-085					
500-207					
500-306					

INVOICE SUBTOTAL

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

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