

ORIGINAL

SIDE ONE

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: Permian

Operator Contact Person: Elwyn H. Nagel

Phone (316) 684-8481

Contractor: Name: Sterling Drilling Company

License: 5142

Wellsite Geologist: Brent 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 OMAO: old well info as follows:

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

Drilling Method:

- Mud Rotary Air Rotary Cable

12-20-89 1-3-90 1-27-90
 Spud Date Date Reached TD Completion Date

API NO. 15- 151-21,969-00-00

County Pratt

C E/2 SW SE Sec. 32 Twp. 29S Rge. 13 East West

660 Ft. North from Southeast Corner of Section

1650 Ft. West from Southeast Corner of Section

(NOTE: Locate well in section plat below.)

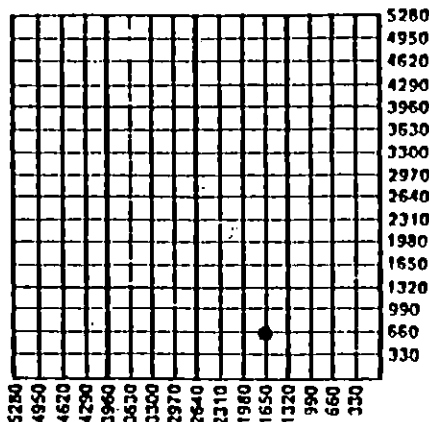
Lease Name Palmquist Well # 4-32

Field Name Jem

Producing Formation Viola

Elevation: Ground 1939 KB 1948

Total Depth 4801 PBTD 4756



Amount of Surface Pipe Set and Cemented at 260' 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 3/5/90

Subscribed and sworn to before me this 5th day of March, 1990.

Notary Public V. Jean Feil

Date Commission Expires 8-31-93

STATE CORPORATION COMMISSION

3-6-90

MAR 6 1990

CONSERVATION DIVISION
Wichita, Kansas

V. JEAN FEIL
 NOTARY PUBLIC
 STATE OF KANSAS
 My Appl. Exp. 8-31-93

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)

Form ACO-1 (7-89)

P1 X

ORIGINAL

SIDE TWO

Operator Name F. G. Holl Company Lease Name Palmquist Well # 4-32

Sec. 32 Twp. 29 Rge. 13 East West County Pratt

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.)

See attached page

Formation Description

Log Sample

None Top Bottom

See attached page

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		10 3/4"	32.75#	260'	60/40 poz	225	2%gel, 3%cc
Production		4 1/2"	10.5#	4796	Lite	100	
					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
2 SPF	4620 to 4654 Viola	Acidized w/1000 gal, 15% DSF and 75 balls,	

TUBING RECORD Size 2 3/8" Set At 4647' Packer At _____ Liner Run Yes No

Date of First Production 1-27-90 Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	40				

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: 4620-4654

F. G. HOLL COMPANY

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

ORIGINAL

PALMQUIST 4-32

Formation Description

Indian Cave	2980	(-1032)
Tarkio	3187	(-1239)
Topeka	3441	(-1493)
Heebner	3815	(-1867)
Toronto	3833	(-1885)
Douglas	3854	(-1906)
Douglas Sand	2881	(-1933)
Brown Lime	3999	(-2051)
Lansing	4016	(-2068)
BKC	4405	(-2457)
Marmaton	4409	(-2461)
Conglomerate	4468	(-2520)
Mississippi	4535	(-2587)
Kinderhook Shale	4561	(-2613)
Viola Limestone	4605	(-2657)
Simpson Sand	4657	(-2709)
Arbuckle	4753	(-2805)

Drill Stem Tests

DST #1: 4395 to 4435 Marmaton

30-60-60-90

IFP 86/105:30 ISIP 1548:60 FFP 166/199:60 FSIP 1437:90

IHP 2278 FHP 2275 BHT 119°

Initial Blow: Strong Blow- Gas to surface in 15 minutes.

Final Blow: Strong Blow

1st Blow

20 min. 34,7 MCF

30 " 34,7 "

2nd Blow

10 min. 34,7 MCF

20 " 34,7 "

30 " 31,6 "

40 " 31,6 "

50 " 28,3 "

60 " 28,3 "

Recovered 450 feet of gas in the pipe, 120 feet of heavy oil and gas cut mud 12% gas, 39% oil, 49% mud, 120 feet of heavy oil and gas cut mud 8% gas, 46% oil, 46% mud.

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CONSERVATION DIVISION
Wichita, Kansas

F. G. HOLL COMPANY

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

ORIGINAL

PALMQUIST 4-32

Drill Stem Tests

DST #2: 4445 to 4495 Conglomerate

30-60-60-90

IFP 59/35:30 ISIP 290:60 FFP 58/31:60 FSIP 388:90

IHP 2290 FHP 2280 BHT 116^o

Initial Blow: Fair blow-Built to the bottom of a 7 gal. bucket
in 3 1/2 minutes.

Final Blow: Strong blow-Bottom of the bucket in 30 seconds, then
started decreasing.

Recovered 20 feet of drilling mud with a few drops of oil between
the shut-in and Hydraulic tool, There was no gas detected in the
drill pipe.

DST #3: 4525 to 4560 Mississippi

30-60-60-90

IFP 50/32:30 ISIP 512:60 FFP 67/50:60 FSIP 487:90

IHP 2255 FHP 2281 BHT 116^o

Initial Blow: Fair blow- Built to the bottom of a 5 gal. bucket in
6 minutes.

Final Blow: Built to the bottom of a 5 gal. bucket in 4 minutes.

Recovered 400 feet of gas in the pipe (Real Faint Odor)

Recovered 40 feet of oil cut mud 3% gas 27% oil, 70% mud.

DST #4: 4612 to 4655 Viola

30-60-60-90

IFP 222/277:30 ISIP 1542:60 FFP 355/546:60 FSIP 1528:90

IHP 2381 FHP 2287 BHT 126^o

Initial Blow: Strong blow-Gas to Surface in 5 minutes.

Final Blow: Strong blow

1st Blow

10 min. 89.8 MCF

20 " 63.3 "

30 " 36.5 "

2nd Blow

10 min. 8.87 MCF

20 " 15.1 "

30 " 14.7 "

40 " 30.2 "

50 " 21.9 "

60 " 15.1 "

Recovered 2050 feet of clean gassy oil, 30% gas, 70% oil.

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CONSERVATION Division
Wichita, Kansas

ORIGINAL



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

INVOICE

A Halliburton Company

INVOICE NO.	DATE
903926	12/20/1989

WELL LEASE NO./PLANT NAME		WELL/PLANT LOCATION		STATE	WELL/PLANT OWNER	
PALMQUIST 4-32		PRATT		KS	SAME	
SERVICE LOCATION		CONTRACTOR		JOB PURPOSE		TICKET DATE
PRATT		STERLING DRILLING #4		CEMENT SURFACE CASING		12/20/1989
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA		FILE NO.
392900	KEITH THOMPSON			COMPANY TRUCK		87804

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	U/M	UNIT PRICE	AMOUNT
PRICING AREA - MID CONTINENT					
000-117	MILEAGE	19	MI		
		1	UNT		
001-016	CEMENTING CASING	262	FT		
		1	UNT		
030-503	WOODEN PLUG	10 3/4	IN		
		1	EA		
1.2A	GUIDE SHOE - 10 3/4" 8RD THD.	1	EA		
825.223					
504-308	STANDARD CEMENT	135	SK		
506-105	POZMIX A	90	SK		
506-121	HALLIBURTON-GEL 2%	4	SK		
509-406	ANHYDROUS CALCIUM CHLORIDE	6	SK		
500-207	BULK SERVICE CHARGE	237	CFT		
500-306	MILEAGE CMTG MAT DEL OR RETURN	192.06	TMI		
INVOICE SUBTOTAL					
DISCOUNT-(BID)					
INVOICE BID AMOUNT					
*-KANSAS STATE SALES TAX					
*-PRATT COUNTY SALES TAX					
RECEIVED STATE CORPORATION COMMISSION					
MAR 6 1990					
CONSERVATION DIVISION Wichita, Kansas					
INVOICE TOTAL - PLEASE PAY THIS AMOUNT =====>					



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TERMS INVOICES PAYABLE NET BY THE END 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 10% OF THE AMOUNT OF THE UNPAID ACCOUNT.

ORIGINAL INVOICE

INVOICE



A DIVISION OF HALLIBURTON COMPANY

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

JAN 17 1990

INVOICE NO.	DATE
903932	01/03/1990

WELL LEASE NO.	WELL LOCATION	STATE	WELL OWNER		
PALEQUIST 4 32	BARBER	KS	SAME		
SERVICE LOCATION	CONTRACTOR	JOB PURPOSE	TICKET DATE		
PRATT	STERLING DRLG	CEMENT PRODUCTION CASING	01/03/1990		
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE NO.
392900	VAUGHN THOMPSON			COMPANY TRUCK	88549

RECEIVED
STATE CORPORATION COMMISSION

F G HOLL.
P O BOX 158
BELPRE, KS 67519

MAR 6 1990

CONSERVATION DIVISION
Wichita, Kansas

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

PRICE REF. NO.	DESCRIPTION	QUANTITY	U/M	UNIT PRICE	AMOUNT
000-117	PRICING AREA - MID CONTINENT, MILEAGE	19	MI		
		1	UNT		
001-016	CEMENTING CASING	4798	FT		
		1	UNT		
030-016	CEMENTING PLUG SW ALUM TOP	4.5	IN		
		1	EA		
018-315	MUD FLUSH	200	GAL		
509-968	SALT	400	LB		52
12A	GUIDE SHOE - 4 1/2" 8RD THD.	1	EA		0
825.201					
24A	INSERT FLOAT VALVE - 4 1/2" 8RD	1	EA		0
815.1910					
27	FILL-UP UNIT 4 1/2"-5"	1	EA		0
815.1911					
40	CENTRALIZER 4-1/2" MODEL S-4	3	EA		0
807.9300					
60	ROTO WALL CLEANER 2 1/8" SPIKE	16	EA		0
807.0007					
65	EZ LOK LIMIT CLAMP 4 1/2"	13	EA		0
807.6027					
66	FASGRIP LIMIT CLAMP 4 1/2"	24	EA		0
807.6402					
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	1100	LB		2
508-291	GILSONITE	650	LB		
507-153	CFR-3	79	LB		
507-210	FLOCELE	16	LB		
508-085	TUF CEMENT FIBERS NO 1 (NYLON)	16	LB		
500-207	BULK SERVICE CHARGE	254	CFT		

***** 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 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.

JAN 1990

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