

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

Form ACO-1  
September 1999  
Form Must Be Typed

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

ORIGINAL

Operator: License # 8729  
Name: Hertel Oil Co.  
Address: 704 EAST 12th  
City/State/Zip: Hays, Kansas 67601  
Purchaser: Cooperative Refining LLC  
Operator Contact Person: David F. Hertel  
Phone: (785) 628-2445  
Contractor: Name: Murfin Drilling  
License: 30606  
Wellsite Geologist: Randall Kilian

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: \_\_\_\_\_  
Well Name: \_\_\_\_\_  
Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_  
 Deepening  Re-perf.  Conv. to Enhr./SWD  
 Plug Back  Plug Back Total Depth \_\_\_\_\_  
 Commingled  Docket No. \_\_\_\_\_  
 Dual Completion  Docket No. \_\_\_\_\_  
 Other (SWD or Enhr.?)  Docket No. \_\_\_\_\_  
12-06-2000 12-13-2000 12-28-2000  
Spud Date or Date Reached TD Completion Date or Recompletion Date

API No. 15 - 051-25069-06-00  
County: Ellis  
Ap. C E 1/2 - NE Sec. 6 Twp. 11 S. R. 17  East  West  
1355 feet from S /  (circle one) Line of Section  
790 feet from  (circle one) W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:  
(circle one)  NE  SE  NW  SW  
Lease Name: Jaco Well #: one

Field Name: Wildcat  
Producing Formation: Arbuckle

Elevation: Ground: 1901 Kelly Bushing: 1906  
Total Depth: 3561 Plug Back Total Depth: 3531

Amount of Surface Pipe Set and Cemented at 230 Feet  
Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set 1178 Feet

If Alternate II completion, cement circulated from 1178 (port collar)  
feet depth to surface w/ 150 sx cmt.  
3% CC and 2% gel (cement circulated)

Drilling Fluid Management Plan alt 2 KGR 8/21/07  
(Data must be collected from the Reserve Pit)

Chloride content 24,000 ppm Fluid volume 2600 bbls

Dewatering method used evaporation

Location of fluid disposal if hauled offsite: \_\_\_\_\_

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License No.: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Docket No.: \_\_\_\_\_

CONSERVATION DIVISION

JAN 22 2001

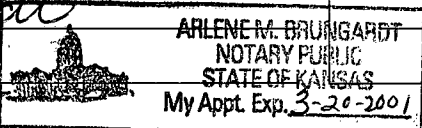
RECEIVED  
KANSAS CORPORATION COMMISSION  
CONSERVATION DIVISION

**INSTRUCTIONS:** An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, 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 of 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: \_\_\_\_\_  
Title: co-owner Date: January 18, 2001  
Subscribed and sworn to before me this 18th day of JANUARY, 2001.

Notary Public: Arlene M. Brungardt  
Date Commission Expires: 3-20-2001



**KCC Office Use ONLY**

Letter of Confidentiality Attached  
If Denied, Yes  Date: \_\_\_\_\_

Wireline Log Received

Geologist Report Received

UIC Distribution

ORIGINAL

Operator Name: Hertel Oil Co. Lease Name: Jaco Well #: one  
 Sec. 6 Twp. 11 S. R. 17  East  West County: Ellis

**INSTRUCTIONS:** Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems 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 test, along with final chart(s). Attach extra sheet if more space is needed. Attach copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (Attach Additional Sheets)  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input checked="" 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)  List All E. Logs Run:  <p style="text-align: center;">A total of five logs ran (included)</p>	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum          <p style="text-align: center;">Included----see attached sheet</p>
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CASING RECORD <input 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 pipe	12 1/4	8 5/8	28	230	common	150	3%CC/2%gel
Prod. string	7 7/8	5 1/2	15.5 lb	3559	ASC	200	2%gel

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input checked="" type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone	Surface  1178port	60/40 Poz  collars	160	6%gel 1/4#floseal

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	3473' --- 3475'	<div style="border: 1px solid black; padding: 5px; display: inline-block;">                     RECEIVED                      KANSAS CORPORATION COMMISSION                      JAN 22 2001                      CONSERVATION DIVISION                 </div>	

TUBING RECORD	Size 2 7/8	Set At 3483	Packer At	Liner Run <input type="checkbox"/> Yes <input type="checkbox"/> No
Date of First, Resumed Production, SWD or Enhr. January 2, 2001		Producing Method <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)		
Estimated Production Per 24 Hours	Oil X 15 Bbls.	Gas Mcf	Water 0 (zero) Bbls.	Gas-Oil Ratio 
				Gravity 30

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

METHOD OF COMPLETION  Open Hole  Perf.  Dually Comp.  Commingled  Other (Specify) \_\_\_\_\_

Production Interval \_\_\_\_\_

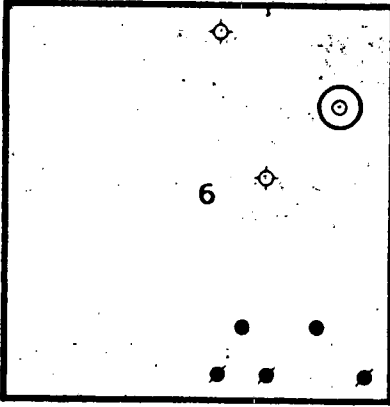
# FORMATION TOPS & STRUCTURAL GEOLOGY

ORIGINAL

R 17 W

REFERRED TO:

T.  
11  
S.



- A: HERMAN G. Kaiser  
#1 Gumble NW SW NW 5
- B: \_\_\_\_\_
- C: \_\_\_\_\_
- D: \_\_\_\_\_
- E: \_\_\_\_\_

STRATIGRAPHIC MARKERS	SUBJECT WELL		STRUCTURAL POSITION					
	SAMPLE	E. LOG	DATUM	A	B	C	D	E
Anhydrite	1160'	1163'	+ 743	+ 757				
Base	1195'	1197'	+ 709					
Topeka	2863'	2864'	- 958	- 956				
Heeb. Sh.	3086'	3088'	-1182	-1183				
Toronto	3110'	3108'	-1202	-1203				
Lansing	3130'	3130'	-1224	-1227				
Base Kc.	3360'	3358'	-1452					
Smp. Dolo.	3448'	3450'	-1544	-1541				
Arbuckle	3464'	3472'	-1566	-1563				
T.D.	3560'	3561'	-1655	-1575				

Pipe strap @ 3227' strap 1.54' short.

\*Structural position of subject well as compared to referred well.

ORIGINAL

DRILL STEM TESTS							
NO	INTERVAL	IFP/TIME	ISIP/TIME	FFP/TIME	FSIP/TIME	IHP/FHP	RECOVERY
1	LKc A-F 3120- 3227'	22# 79# 30"	792# 45"	86# 126# 45"	767# 60"	1506# 1476#	100' HOOM 25% Oil 120' HOOM 35% Oil 2 zones
2	LKc H-L 3271- 3366'	29# 65# 30"	1080# 45"	71# 97# 45"	1077# 60"	1574# 1562#	185' VHOCM 48% Oil
3	Re-Arb. 3451- 3467#	14# 14# 30"	18# 45"	14# 14# 30"	17# 45"	1686# 1681#	1' OCM
4	Arb. 3451- 3473'	19# 104# 30"	1078# 45"	112# 182# 60"	1061# 90"	1672# 1658#	360' C,Oil grav 26 60' M,Oil
5							
6							
7							
8							

ORIGINAL

# ALLIED CEMENTING CO., INC. 4730

Federal Tax I.D.# [REDACTED]

ATTN TO P.O. BOX 31  
RUSSELL, KANSAS 67665

SERVICE POINT: R

DATE <u>12/19/00</u>	SEC.	TWP.	RANGE	CALLED OUT	ON LOCATION <u>6:00p.m.</u>	JOB START	JOB FINISH <u>9:30p.m.</u>
LEASE <u>Jaco</u>	WELL # <u>1</u>	LOCATION <u>Hay N to River Rd.</u>			COUNTY <u>Ellis</u>	STATE <u>Ks.</u>	
OLD OR NEW (Circle one)				<u>BE 1 1/2 N W 20 10</u>			

CONTRACTOR MURFIN #8

TYPE OF JOB Surface Pipe

HOLE SIZE 12 1/4" T.D. 231

CASING SIZE 8 5/8" DEPTH 230

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG.

PERFS.

DISPLACEMENT 13 3/4 Bbl

OWNER \_\_\_\_\_

CEMENT

AMOUNT ORDERED 150 Com 370 C.C.  
240 Gel

COMMON	<u>150</u>	@	<u>6.35</u>	<u>952.50</u>
POZMIX		@		
GEL	<u>3</u>	@	<u>9.50</u>	<u>28.50</u>
CHLORIDE	<u>5</u>	@	<u>28.00</u>	<u>140.00</u>
		@		
		@		
		@		
		@		
HANDLING	<u>158</u>	@	<u>1.05</u>	<u>165.90</u>
MILEAGE	<u>4 1/2 SK</u>	/MILE		<u>126.40</u>

EQUIPMENT

PUMP TRUCK CEMENTER Paul

# 153 HELPER Jason

BULK TRUCK

# 160 DRIVER Allen

BULK TRUCK

# DRIVER

TOTAL 1413.30

### REMARKS:

Cement Circulated!

Thank You!

### SERVICE

DEPTH OF JOB			
PUMP TRUCK CHARGE			<u>470.00</u>
EXTRA FOOTAGE		@	
MILEAGE	<u>20</u>	@	<u>3.00</u> <u>60.00</u>
PLUG <u>8 5/8 surface</u>		@	<u>45.00</u>
		@	
		@	

TOTAL 575.00

CHARGE TO: Hertel Oil Co.

STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

### FLOAT EQUIPMENT

_____	@	_____
_____	@	_____
_____	@	_____
_____	@	_____
_____	@	_____

TOTAL \_\_\_\_\_

To Allied Cementing Co., Inc.  
You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read & understand the "TERMS AND CONDITIONS" listed on the reverse side.

TAX \_\_\_\_\_

TOTAL CHARGE \_\_\_\_\_

DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS

SIGNATURE Louis McPenna

Louis McPenna  
PRINTED NAME

ORIGINAL

# ALLIED CEMENTING CO., INC. 5107

Federal Tax I.D.#

MIT TO P.O. BOX 31  
RUSSELL, KANSAS 67665

SERVICE POINT:

R

DATE <u>2-13-00</u>	SEC.	TWP.	RANGE	CALLED OUT	ON LOCATION <u>8:00 pm</u>	JOB START <u>11:45 pm</u>	JOB FINISH <u>12:15 am</u>
LEASE <u>Jaco</u>	WELL # <u>1</u>	LOCATION <u>183 E R Rd 3E 1 1/2 N</u>			COUNTY <u>Ellis</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one)							

CONTRACTOR <u>Murfin #8</u>	OWNER <u>SAME</u>
TYPE OF JOB <u>Production String</u>	
HOLE SIZE <u>7 7/8</u>	T.D. <u>3560</u>
CASING SIZE <u>5 1/2</u>	DEPTH <u>3559</u>
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT <u>24.31</u>
CEMENT LEFT IN CSG.	
PERFS.	
DISPLACEMENT <u>8 1/4</u>	

### EQUIPMENT

PUMP TRUCK # <u>345</u>	CEMENTER <u>Male</u>
	HELPER <u>Glen</u>
BULK TRUCK # <u>254</u>	DRIVER <u>Jason</u>
BULK TRUCK #	DRIVER

CEMENT			
AMOUNT ORDERED	<u>200 ASC</u>	<u>296 gal</u>	
	<u>500' gal w/ R-2</u>		
COMMON		@	
POZMIX		@	
GEL	<u>4</u>	@	<u>9.50</u> <u>38.00</u>
CHLORIDE		@	
ASC	<u>200</u>	@	<u>8.20</u> <u>1640.00</u>
WFR	<u>500 gals</u>	@	<u>1.00</u> <u>500.00</u>
		@	
		@	
		@	
HANDLING <u>216</u>		@	<u>1.05</u> <u>226.80</u>
MILEAGE <u>44.5</u>	<u>1/mile</u>		<u>172.98</u>

TOTAL 2577.60

### REMARKS:

P-collar on #58  
15' C. Borehole  
16' C. mousehole  
Float held  
Thompson

### SERVICE

DEPTH OF JOB			
PUMP TRUCK CHARGE			<u>1080.00</u>
EXTRA FOOTAGE		@	
MILEAGE <u>20</u>		@	<u>3.00</u> <u>60.00</u>
PLUG <u>5 1/2 Rubber</u>		@	<u>50.00</u>
		@	
		@	
TOTAL			<u>1190.00</u>

CHARGE TO: Wentel Oil  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

### FLOAT EQUIPMENT

<u>5 1/2</u>			
<u>G-shoe</u>		@	<u>150.00</u>
<u>Insert</u>		@	<u>235.00</u>
<u>7 Centralizers</u>		@	<u>50.00</u> <u>350.00</u>
<u>1 Basket</u>		@	<u>128.00</u>
<u>10 Port Collars</u>		@	<u>175.00</u>
<u>20 Recip. Servitubers</u>			<u>35.00</u> <u>700.00</u>
TOTAL			<u>3313.00</u>

To Allied Cementing Co., Inc.  
 You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read & understand the "TERMS AND CONDITIONS" listed on the reverse side.

TAX \_\_\_\_\_  
 TOTAL CHARGE \_\_\_\_\_  
 DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS

SIGNATURE X/ [Signature]

N. AVISON  
 PRINTED NAME

# ALLIED CEMENTING CO., INC.

ORIGINAL 4739

Federal Tax I.D. # [REDACTED]

REMIT TO P.O. BOX 31  
RUSSELL, KANSAS 67665

SERVICE POINT: R

DATE <u>12/21/00</u>	SEC.	TWP.	RANGE	CALLED OUT	ON LOCATION <u>2:00 p.m.</u>	JOB START	JOB FINISH <u>4:00</u>
LEASE <u>TACO</u>	WELL # <u>1</u>	LOCATION <u>Nays N to River Rd.</u>			COUNTY <u>Ellis</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one) <u>NEW</u>		<u>3E 12N W 20T0</u>					

CONTRACTOR Murfin  
 TYPE OF JOB Post Collar  
 HOLE SIZE \_\_\_\_\_ T.D. \_\_\_\_\_  
 CASING SIZE 5 1/2" DEPTH \_\_\_\_\_  
 TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 DRILL PIPE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 TOOL Post Collar DEPTH 1178  
 PRES. MAX \_\_\_\_\_ MINIMUM \_\_\_\_\_  
 MEAS. LINE \_\_\_\_\_ SHOE JOINT \_\_\_\_\_  
 CEMENT LEFT IN CSG. \_\_\_\_\_  
 PERFS. \_\_\_\_\_  
 DISPLACEMENT \_\_\_\_\_

OWNER \_\_\_\_\_  
 CEMENT AMOUNT ORDERED 300 <sup>lb</sup> / 100 <sup>lb</sup> Cel  
1/4 # FLOXAL  
USED 1100 SK

COMMON	<u>96</u>	@	<u>6.35</u>	<u>609.60</u>
POZMIX	<u>64</u>	@	<u>3.25</u>	<u>208.00</u>
GEL	<u>8</u>	@	<u>9.50</u>	<u>76.00</u>
CHLORIDE		@		
<u>Floxal</u>	<u>40#</u>	@	<u>1.15</u>	<u>46.00</u>
		@		
		@		
		@		
		@		
HANDLING	<u>315</u>	@	<u>1.05</u>	<u>330.75</u>
MILEAGE	<u>42.9</u>	@	<u>6.45</u>	<u>277.20</u>
TOTAL				<u>1547.55</u>

**EQUIPMENT**

PUMP TRUCK CEMENTER Paul  
 # 153 HELPER Jason  
 BULK TRUCK DRIVER Shane  
 # 254  
 BULK TRUCK DRIVER \_\_\_\_\_  
 # \_\_\_\_\_

**REMARKS:**

Run in to 201. Press Csg to  
1000psi. Found P.C. @ 1178.  
Mixed 1100SK. Cement Circulated.  
Closed tool ran 5jts. Washed  
Clean. Come Out of tbq.

**SERVICE**

DEPTH OF JOB	_____		
PUMP TRUCK CHARGE	_____		<u>580.00</u>
EXTRA FOOTAGE	_____	@	_____
MILEAGE	<u>22</u>	@	<u>3.00</u> <u>66.00</u>
PLUG	_____	@	_____
		@	
		@	
TOTAL <u>646.00</u>			

CHARGE TO: Hertel Oil  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

**FLOAT EQUIPMENT**

_____	@	_____
_____	@	_____
_____	@	_____
_____	@	_____
_____	@	_____

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SIGNATURE \_\_\_\_\_

TOTAL \_\_\_\_\_  
 TAX \_\_\_\_\_  
 TOTAL CHARGE \_\_\_\_\_  
 DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS

Nick Stork  
 PRINTED NAME