

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, KS 67601
Purchaser: Cooperative Refining LLC
Operator Contact Person: David Hertel
Phone: (785) 628-2445
Contractor: Name: A & A Production
License: 30076

Wellsite Geologist: Randall Kilian
Designate Type of Completion:
 New Well Re-Entry Workover
 Oil SWD SLOW 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. _____

12-15-2000 12-24-2000 1-10-2001
Spud Date or Date Reached TD Completion Date or Recompletion Date

API No. 15 - 051-25065-0000
County: Ellis
150' W of N 1/2 NW 1/4 Sec. 10 Twp. 11 S. R. 19 East West
330 feet from S (circle one) Line of Section
510 feet from E (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:
(circle one) NE SE NW SW
Lease Name: Keller Well #: 1

Field Name: Wildcat
Producing Formation: Arbuckle
Elevation: Ground: 2028 Kelly Bushing: 2033
Total Depth: 3646 Plug Back Total Depth: 3625
Amount of Surface Pipe Set and Cemented at 210 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes show depth set 1348 Feet
If Alternate II completion, cement circulated from 1348
feet depth to surface w/ 240 sx cmt.
6% gel with 1 lb flow seal (cement circulated

Drilling Fluid Management Plan Alt. II KCR 8/13/07
(Data must be collected from the Reserve Pit)
Chloride content 24,000 ppm Fluid volume 2800 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.: _____

RECEIVED
KANSAS CORPORATION COMMISSION

FEB 2 2001
KANSAS CORPORATION COMMISSION

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 25, 2001

Subscribed and sworn to before me this 25th day of JANUARY, 2001.

Notary Public: Arlene M. Brungardt

Date Commission Expires: 3-20-2001

ARLENE M. BRUNGARDT
NOTARY PUBLIC
STATE OF KANSAS
My Appt. Exp. 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: Keller Well #: one
 Sec. 10 Twp. 11 S. R. 19 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 Yes No
 (Attach Additional Sheets)
 Samples Sent to Geological Survey Yes No
 Cores Taken Yes No
 Electric Log Run Yes No
 (Submit Copy)

Log Formation (Top), Depth and Datum Sample
 Name Top Datum

List All E. Logs Run: A total of five logs ran (included)

Included-----see attached sheet

CASING RECORD <input type="checkbox"/> New <input 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	# Sacs Used	Type and Percent Additives
surface pipe	12 1/4"	8 5/8	28#	210'	60/40	140	3%gel/2%cc
Prod. string	7 7/8"	5 1/2"	15.5#	3638	ASC	200	10%salt/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 1348'	60/40 poz	240	6%gel 1/4#flow seal

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	3563' - 3566'	RECEIVED KANSAS CORPORATION COMPANY	
		FEB 2 2001	
		CONSERVATION DIVISION	

TUBING RECORD	Size	Set At	Packer At	Liner Run <input type="checkbox"/> Yes <input type="checkbox"/> No
	2 7/8			

Date of First, Resumerd Production, SWD or Enhr. January 20, 2001 Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	X 30		0 (zero)		

Disposition of Gas Vented Sold Used on Lease (If vented, Sumit ACO-18.)
 METHOD OF COMPLETION Open Hole Perf. Dually Comp. Commingled
 Production Interval Other (Specify)

FORMATION TOPS & STRUCTURAL GEOLOGY

ORIGINAL

R.19 W.

REFERRED TO:

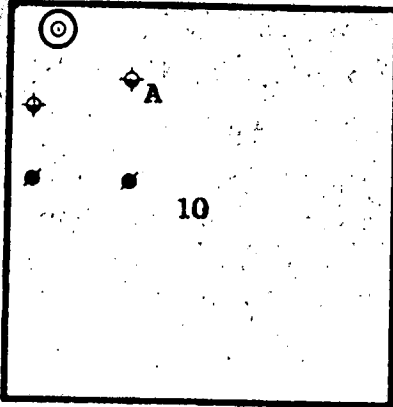
A: OKMAR OIL CO. (sample tops)
Falconberry A-2 SW NE NW 10

B: _____

C: _____

D: _____

E: _____



T.
11
S.

STRATIGRAPHIC MARKERS	SUBJECT WELL		STRUCTURAL POSITION					
	SAMPLE	E. LOG	DATUM	A	B	C	D	E
Anhydrite	1368'	1373'	+ 660	+649				
Base	1408'	1407'	+ 626	+ 611				
Topeka	2986'	2986'	- 953					
Heeb. Sh.	3203'	3204'	-1171	-1178				
Toronto	3228'	3225'	-1142					
Lansing	3246'	3246'	-1213	-1218				
Base Kc.	3462'	3460'	-1427					
Sup. Dolo.	3543'	3541'	-1508	-1510				
Arb.	3557'	3557'	-1524	-1531				
TD	3646'	3646'	-1613	-1537				

Pipe strap @ 3313' strap .89' short.

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

DRILL STEM TESTS

NO	INTERVAL	IFP/TIME	ISIP/TIME	FFP/TIME	FSIP/TIME	HP/FHP	RECOVERY
1	Tor-"D" 3201- 3313'	106# 260# 30"	651# 45"	319# 438# 60"	651# 60"	1647# 1553#	434' O,C,G,M,Wtr. 10% gas, 10% oil 434' M,Wtr. s.o.
2	Arb. 3552- 3562'	15# 16# 30"	963# 30"	19# 31# 30"	880# 30"	1832# 1762#	10' M. s.o.
3	Arb. 3552- 3567'	39# 133# 30"	1041# 45"	127# 203# 30"	1033# 60"	1758# 1725#	438' H,M,C,Frt,Oil grav 18
4							
5							
6							
7							
8							

ORIGINAL

ALLIED CEMENTING CO., INC. 4662

Federal Tax I.D. [REDACTED]

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

ORIGINAL
SERVICE POINT:

Russell

DATE <u>12-15-00</u>	SEC. <u>10</u>	TWP. <u>11</u>	RANGE <u>19</u>	CALLED OUT <u>7:00 AM</u>	ON LOCATION <u>9:30 AM</u>	JOB START	JOB FINISH <u>10:00 AM</u>
LEASEE <u>Keller</u>		WELL# <u>1</u>	LOCATION <u>N YOC. TO Coline 135</u>			COUNTY <u>Ellis</u>	STATE
OLD OR <input checked="" type="radio"/> NEW (Circle one)							

CONTRACTOR A 9 A

TYPE OF JOB SURFACE

HOLE SIZE 12 1/4 T.D. 215

CASING SIZE 8 5/8 DEPTH

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG.

PERFS.

DISPLACEMENT 123

OWNER

CEMENT

AMOUNT ORDERED 14000 60/403-2

COMMON	<u>85</u>	@	<u>6.35</u>	<u>539.75</u>
POZMIX	<u>55</u>	@	<u>3.25</u>	<u>178.75</u>
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>(48)</u>		@	<u>1.05</u>	<u>155.40</u>
MILEAGE <u>44 1/2</u>			<u>1.00/mile</u>	<u>148.40</u>
TOTAL				<u>1160.00</u>

EQUIPMENT

PUMP TRUCK CEMENTER Bill

153 HELPER JASON

BULK TRUCK

282 DRIVER JASON

BULK TRUCK

DRIVER

REMARKS:

Pipe etc 211

Cemt. w/ 14000 60/403-2

Cemt did circ

SERVICE

DEPTH OF JOB			
PUMP TRUCK CHARGE			<u>470.00</u>
EXTRA FOOTAGE		@	
MILEAGE <u>1.85/mile</u>		@	<u>45.00</u>
PLUG <u>20</u>		@	<u>3.00</u>
		@	
		@	
TOTAL <u>585.00</u>			

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 [Signature]

PRINTED NAME _____

ALLIED CEMENTING CO., INC. 5096

Federal Tax I.D.

ORIGINAL *R*

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

SERVICE POINT: _____

DATE <i>12-26-00</i>	SEC <i>10</i>	TWP. <i>11</i>	RANGE <i>19</i>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH <i>11:30pm</i>
LEASE <i>Keller</i>	WELL # <i>1</i>	LOCATION <i>Hays N to River Rd</i>	COUNTY <i>Ellis</i>	STATE <i>Ks</i>			
OLD OR <u>NEW</u> (Circle one)		<i>7W 1N E. 5</i>					

CONTRACTOR *A+A*

TYPE OF JOB *Prod String*

HOLE SIZE *7 7/8* T.D. *3646*

CASING SIZE *5 1/2* DEPTH

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL *port collar* DEPTH *1389*

PRES. MAX. MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. *13*

PERFS.

DISPLACEMENT *15.50# 86 3/4 RBL*

OWNER _____

CEMENT AMOUNT ORDERED *200ASC 10% salt*

2% gel

500 gal WFR-2

EQUIPMENT

153

PUMP TRUCK CEMENTER *Dave*

HELPER *Alan*

BULK TRUCK DRIVER

282 DRIVER *Shane*

COMMON	@		
POZMIX	@		
GEL <i>4</i>	@	<i>9.50</i>	<i>38.00</i>
CHLORIDE	@		
ASC <i>200</i>	@	<i>3.20</i>	<i>1640.00</i>
SALT <i>18</i>	@	<i>7.00</i>	<i>126.00</i>
WFR-2 <i>500 gals</i>	@	<i>1.00</i>	<i>500.00</i>
	@		
HANDLING <i>232)</i>	@	<i>1.05</i>	<i>243.60</i>
MILEAGE <i>44/SK/mile</i>			<i>185.60</i>
TOTAL			<i>2733.20</i>

REMARKS:

Plug Rod hole w/c 15 slc

port collar 55 ft.

Plugs Hole

SERVICE

DEPTH OF JOB		
PUMP TRUCK CHARGE		<i>1080.00</i>
EXTRA FOOTAGE	@	
MILEAGE <i>20</i>	@	<i>3.00</i> <i>60.00</i>
PLUG <i>50 Rubber</i>	@	<i>50.00</i>
	@	
	@	
TOTAL <i>1190.00</i>		

CHARGE TO: *Hertel Oil Co*

STREET _____

CITY _____ STATE _____ ZIP _____

FLOAT EQUIPMENT

<i>7 Cement bags</i>	<i>50.00</i>	<i>350.00</i>
<i>1 port collar</i>	@	<i>1750.00</i>
<i>1 AFA Insert</i>	@	<i>235.00</i>
<i>1 Basket</i>	@	<i>128.00</i>
<i>1 Buyde Shoes</i>	@	<i>150.00</i>
<i>15 Rec. Scratchers</i>	@	<i>35.00</i> <i>525.00</i>
TOTAL <i>3138.00</i>		

To Allied Cementing Co., Inc.
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TAX _____

TOTAL CHARGE _____

DISCOUNT _____ IF PAID IN 30 DAYS

SIGNATURE

PRINTED NAME _____

ALLIED CEMENTING CO., INC.

6654

Federal Tax I.D. [REDACTED]

ORIGINAL

PO BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT: R

DATE <u>1-4-01</u>	SEC. <u>10</u>	TWP. <u>11</u>	RANGE <u>19</u>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH <u>12:30pm</u>
LEASE <u>Keller</u>	WELL# <u>1</u>	LOCATION <u>River Rd 7W 1N E5</u>			COUNTY <u>Ellis</u>	STATE <u>Ks</u>	
OLD OR NEW (Circle one) <u>NEW</u>							

CONTRACTOR Chitas Well Service

TYPE OF JOB part collar

HOLE SIZE _____ T.D. _____

CASING SIZE 5 1/2 DEPTH _____

TUBING SIZE 2 1/2 DEPTH _____

DRILL PIPE _____ DEPTH _____

TOOL part collar DEPTH 1348

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. _____

PERFS. _____

DISPLACEMENT _____

OWNER _____

CEMENT

AMOUNT ORDERED 300⁰⁰ 6% gal

1/4 16 Floseal

used ~~255~~ used 240

COMMON	<u>144</u>	@	<u>6.35</u>	<u>914.40</u>
POZMIX	<u>96</u>	@	<u>3.25</u>	<u>312.00</u>
GEL	<u>12</u>	@	<u>9.50</u>	<u>114.00</u>
CHLORIDE		@		
<u>Floseal</u>	<u>75#</u>	@	<u>1.15#</u>	<u>86.25</u>
		@		
		@		
		@		
		@		
HANDLING	<u>315</u>	@	<u>1.05</u>	<u>330.75</u>
MILEAGE	<u>104 1/2 K/mi.</u>			<u>264.60</u>

EQUIPMENT

177 PUMP TRUCK CEMENTER Dave Ron

_____ HELPER _____

BULK TRUCK DRIVER Paul

291 DRIVER _____

BULK TRUCK DRIVER Jason

254 DRIVER _____

TOTAL 2022.00

REMARKS:

tested casing @ 1000 psi
opened tool mixed 240 sl
+ air cement to surface
closed tool + pressured to
1000psi. Ran 5 Jts +
air hole

SERVICE

DEPTH OF JOB _____

PUMP TRUCK CHARGE _____ 580.00

EXTRA FOOTAGE @ _____

MILEAGE 21 @ 3.00 63.00

PLUG @ _____

@ _____

@ _____

TOTAL 643.00

CHARGE TO: Nertel 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 _____

Nick [Signature]

PRINTED NAME