

**KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE**

Form ACO-1
June 2009
Form Must Be Typed
Form must be Signed
All blanks must be Filled

ORIGINAL

OPERATOR: License # 33625
Name: Hertel Oil Co., LLC
Address 1: 704 East 12th
Address 2: _____
City: Hays State: Ks. Zip: 67601
Contact Person: David Hertel
Phone: (785) 628-2445
CONTRACTOR: License # 30606
Name: Murfin Drilling Co. Inc.
Wellsite Geologist: Randy Kilian
Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic Other (Core, Expl., 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 Conv. to SWD
- Conv. to GSW
- Plug Back: _____ Plug Back Total Depth _____
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

6-13-2011 6-19-2011 _____

Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No. 15 - 051-26152-0000

Spot Description: _____
SW NE NE NE Sec. 6 Twp. 11 S. R. 17 East West
390 Feet from North / South Line of Section
580 Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

County: Ellis

Lease Name: Jaco Well #: 2

Field Name: Bemis-Shutts

Producing Formation: _____

Elevation: Ground: 1926' Kelly Bushing: 1931'

Total Depth: 3505' Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: 231' 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 crnt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: 17,000 ppm Fluid volume: 340 bbls

Dewatering method used: Evaporation

Location of fluid disposal if hauled offsite: _____

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

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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.

AFFIDAVIT

I am the affiant and I hereby certify that 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: Managing member Date: August 20, 2011

KCC Office Use ONLY

- Letter of Confidentiality Received
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: PLA Dlg Date: 8/25/11

Operator Name: Hertel Oil Co, LLC Lease Name: Jaco Well #: 2
 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 complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> 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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Submitted Electronically <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run: <u>none ran</u>	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum <p style="text-align: center; font-size: 1.2em;">see attached sheet</p>
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CASING RECORD <input checked="" 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	# Sacks Used	Type and Percent Additives
surface	12 1/4"	8 5/8	20	231'	common	150	3%cc 2%gel

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

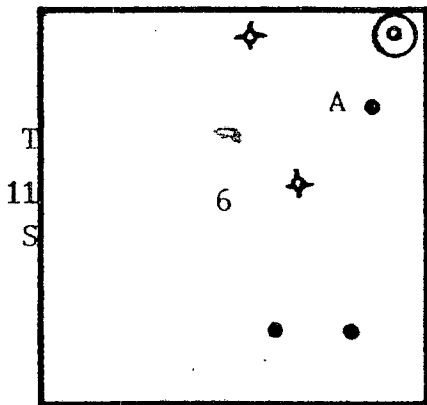
Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____		Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Date of First, Resumed Production, SWD or ENHR. _____		Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____	
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls. Gas-Oil Ratio Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5) (Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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FORMATION TOPS & STRUCTURAL GEOLOGY

R 17 W



REFERRED TO:

A: HERTEL OIL CO.
Jaco #1 N $\frac{1}{2}$ SE NE 6
 B: _____
 C: _____
 D: _____
 E: _____

STRATIGRAPHIC MARKERS	SUBJECT WELL		STRUCTURAL POSITION					
	SAMPLE	E. LOG	DATUM	A	B	C	D	E
Anhydrite	1186'		+ 745	+ 743				
Base	1222'		+ 709	+ 709				
Topeka	2890'		- 959	- 958				
Heeb. Sh.	3116'		-1185	-1182				
Toronto	3139'		-1208	-1202				
Lansing	3157'		-1226	-1224				
BKc.	3391'		-1460	-1452				
Sup. Dolo.	3484'		-1553	-1544				
Arbuckle				-1566				
TD	3505'		-1574	-1655				

Pipe strap .63' short.

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

ALLIED CEMENTING CO., LLC. 039636

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

SERVICE POINT:
Russell Ks.

DATE <u>6-18-2011</u>	SEC. <u>6</u>	TWP. <u>11</u>	RANGE <u>17</u>	CALLED OUT	ON LOCATION	JOB START <u>2:30pm</u>	JOB FINISH <u>3:00pm</u>
LEASE <u>JACO</u>	WELL # <u>#2</u>	LOCATION <u>Hays Ks. N. To Rur Rd.</u>			COUNTY <u>ELLIS</u>	STATE <u>KANSAS</u>	
OLD OR <u>NEW</u> (Circle one)				<u>4 E To Turville School 1 1/2 N 1/2 W 1/4</u>			

CONTRACTOR MURKIN DRILL RIG #16

TYPE OF JOB Rotary Plug

HOLE SIZE 7 7/8 T.D. 3505

CASING SIZE 8 5/8 SURFACE DEPTH 231

TUBING SIZE _____ DEPTH _____

DRILL PIPE 4 1/2 x-H DEPTH 1200'

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. _____

PERFS. _____

DISPLACEMENT _____

EQUIPMENT

PUMP TRUCK CEMENTER Gleny

417 HELPER WOODY

BULK TRUCK

378 DRIVER Mark

BULK TRUCK

_____ DRIVER _____

REMARKS:

25 SX @ 1200'

100 SX @ 600'

40 SX @ 280'

10 SX @ 40' + WIPER PLUG

35 SX @ mousehole

30 SX @ RATHOLE

THANKS

CHARGE TO: HERTEL Oil Company LLC

STREET _____

CITY _____ STATE _____ ZIP _____

OWNER _____

CEMENT

AMOUNT ORDERED 220 SX @ 40' 48 GEL

Y4 # F10-Seal Per SK

COMMON	<u>132</u>	@	<u>16.25</u>	<u>2145.00</u>
POZMIX	<u>88</u>	@	<u>8.50</u>	<u>748.00</u>
GEL	<u>7</u>	@	<u>21.25</u>	<u>148.75</u>
CHLORIDE		@		
ASC		@		
<u>F10 Seal</u>	<u>55#</u>	@	<u>2.70</u>	<u>148.50</u>

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HANDLING 227 @ 2.25 510.75

MILEAGE 111/SK/mi 624.25

TOTAL 4325.25

SERVICE

DEPTH OF JOB _____

PUMP TRUCK CHARGE _____ 1250.00

EXTRA FOOTAGE _____ @ _____

MILEAGE 50 @ 7.00 350.00

MANIFOLD _____ @ _____

CUM 50 @ 4.00 200.00

TOTAL 1800.00

PLUG & FLOAT EQUIPMENT

8 5/8 Dry Hole PLUG N-C

@ _____

@ _____

@ _____

@ _____

TOTAL _____

To Allied Cementing Co., LLC.

You are hereby requested to rent cementing equipment and furnish cementer and helper(s) 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 and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME _____

SIGNATURE Ag Label

SALES TAX (If Any) _____

TOTAL CHARGES ~~4325.25~~

DISCOUNT ~~_____~~ IF PAID IN 30 DAYS

ALLIED CEMENTING CO., LLC. 039629

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

SERVICE POINT:
Russell Ks.

DATE <u>6-13-2011</u>	SEC. <u>6</u>	TWP. <u>11 S</u>	RANGE <u>17 W</u>	CALLED OUT	ON LOCATION	JOB START <u>10:30 PM</u>	JOB FINISH <u>11:00 PM</u>
LEASE <u>Jaco</u>	WELL # <u>2</u>	LOCATION <u>Hays Ks. N. TO RVR. RDR</u>			COUNTY <u>Ellis</u>	STATE <u>KANSAS</u>	
OLD OR <input checked="" type="radio"/> NEW (Circle one)		<u>3 E 1/2 N 1/2 N-W T170</u>					

CONTRACTOR MURFIN DRILL RIG #16

TYPE OF JOB Cement SURFACE

HOLE SIZE 12 1/4 T.D. 232'

CASING SIZE 8 5/8 New DEPTH 232'

TUBING SIZE 20# CSG DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. 15'

PERFS.

DISPLACEMENT 13 3/4 BBL

OWNER

CEMENT

AMOUNT ORDERED 150 sx Comm.

3% CC

2% GEL

COMMON	<u>150</u>	@	<u>16.25</u>	<u>2437.50</u>
POZMIX		@		
GEL	<u>3</u>	@	<u>21.25</u>	<u>63.75</u>
CHLORIDE	<u>5</u>	@	<u>58.20</u>	<u>291.00</u>
ASC		@		
		@		
		@		
		@		
		@		

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EQUIPMENT

PUMP TRUCK CEMENTER GLENN

417 HELPER WOODY

BULK TRUCK

410 DRIVER MARK

BULK TRUCK

DRIVER

HANDLING	<u>158</u>	@	<u>2.25</u>	<u>355.50</u>
MILEAGE	<u>11.56/mile</u>			<u>439.50</u>
			TOTAL	<u>3582.25</u>

REMARKS:

Ran 5 new JTS of 8 5/8 - 20# CSG & set @ Circulate on Bottom. 10 minutes of cement w/ 150 sx Comm. 2% GEL 3% CC. & Displace 13 3/4 BBL H2O shut in @ 300#. Cement did circulate to surface.

THANK'S

SERVICE

DEPTH OF JOB				
PUMP TRUCK CHARGE				<u>1125.00</u>
EXTRA FOOTAGE		@		
MILEAGE	<u>50</u>	@	<u>7.00</u>	<u>350.00</u>
MANIFOLD		@		
<u>LUM</u>	<u>50</u>	@	<u>4.00</u>	<u>200.00</u>
		@		

CHARGE TO: Hertel Oil LLC.

STREET _____

CITY _____ STATE _____ ZIP _____

TOTAL 1675.00

PLUG & FLOAT EQUIPMENT

To Allied Cementing Co., LLC. You are hereby requested to rent cementing equipment and furnish cementer and helper(s) 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 and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

	@		
	@		
	@		
	@		
	@		
			TOTAL _____

PRINTED NAME _____

SIGNATURE [Signature]

SALES TAX (If Any) _____

TOTAL CHARGES [Redacted]

DISCOUNT [Redacted] IF PAID IN 30 DAYS