

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 5455
Name: Crawford Oil & Gas CO. LLC
Address 1: P.O. Box 1366
Address 2: _____
City: El Dorado State: KS Zip: 67042
Contact Person: Larry Dale Crawford
Phone: (316) 377-3373
CONTRACTOR: License # 33575
Name: WW Drilling, LLC
Wellsite Geologist: Larry Friend
Purchaser: NCRA

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 #: _____
7-20-2010 7-26-2010 8-9-2010
Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No. 15 - 15-137-20517-0000
Spot Description: _____
NW SE NE SW Sec. 24 Twp. 4 S. R. 21 East West
1,959 Feet from North / South Line of Section
2,291 Feet from East / West Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: Norton
Lease Name: CB Well #: 2-24
Field Name: Cactus Creek
Producing Formation: Kansas City
Elevation: Ground: 2145 Kelly Bushing: 2150
Total Depth: 3696 Plug Back Total Depth: _____
Amount of Surface Pipe Set and Cemented at: 221 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set: 1740 Feet
If Alternate II completion, cement circulated from: 1740
feet depth to: to surface w/ 175 sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls
Dewatering method used: _____
Location of fluid disposal if hauled offsite:
Operator Name: _____
Lease Name: _____ License #: _____
Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West
County: _____ Permit #: _____

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: Larry Dale Crawford
Title: President Date: 11-15-2010

KCC Office Use ONLY RECEIVED

Letter of Confidentiality Received
Date: NOV 19 2010
 Confidential Release Date: _____
 Wireline Log Received
 Geologist Report Received
 UIC Distribution
ALT I II III Approved by: Dlg Date: 11/27/10

KCC WICHITA

Operator Name: Crawford Oil & Gas CO. LLC Lease Name: CB Well #: 2-24
 Sec. 24 Twp. 4 S. R. 21 East West County: Norton

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 Yes No
 (Attach Additional Sheets)

Samples Sent to Geological Survey Yes No

Cores Taken Yes No

Electric Log Run Yes No

Electric Log Submitted Electronically Yes No
 (If no, Submit Copy)

List All E. Logs Run:

Radiation log/Cement Bond log

<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Name	Top	Datum
Herbner	3334	-1184
Lansing	3382	-1232
BKC	3573	-1423
Eros Arbuckle	3657	-1507
Pre C Wash	3670	-1520

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 7/8"	24#	221ft	Common	150	3%cc 2% gel
Production	7 7/8"	4 1/2" used	11.60#	3693 ft	EA-2	175	1/4# Flocele

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	0-1740	SMD	175	1/4# Flocele

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
4spf	3520-3526 20 holes	250 gal. 15% mud acid/ 1000 gal 15% acid	

RECEIVED
NOV 19 2010

TUBING RECORD:		Size:	Set At:	Packer At:	Liner Run:	KCC WICHITA	
		2 3/8"	3685 ft		<input type="checkbox"/> Yes <input type="checkbox"/> No		
Date of First, Resumed Production, SWD or ENHR.			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 Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity		
	35		0		28		

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

ALLIED CEMENTING CO., LLC. 041825

9 5011 107 1.1.1. 200 500.

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

SERVICE POINT:
Russell KS

DATE <u>7-20-10</u>	SEC. <u>24</u>	TWP. <u>4</u>	RANGE <u>21</u>	CALLED OUT	ON LOCATION	JOB START <u>8:45pm</u>	JOB FINISH <u>9:15pm</u>
LEASE <u>CB</u>	WELL # <u>2-24</u>	LOCATION <u>Logan KS West to 1600 Rd.</u>			COUNTY <u>Norton</u>	STATE <u>KS</u>	
OLD OR <u>NEW</u> (Circle one)		<u>1 North 1/2 West North into</u>					

CONTRACTOR Walt Drilling Rig #8
 TYPE OF JOB Surface
 HOLE SIZE 12 1/4 T.D. 222
 CASING SIZE 8 5/8 DEPTH 222
 TUBING SIZE DEPTH
 DRILL PIPE DEPTH
 TOOL DEPTH
 PRES. MAX MINIMUM
 MEAS. LINE SHOE JOINT
 CEMENT LEFT IN CSG. 15'
 PERFS.
 DISPLACEMENT 13.18 Bbl

EQUIPMENT
 PUMP TRUCK CEMENTER John Roberts
 # 417 HELPER Heath
 BULK TRUCK
 # 410 DRIVER Glenn
 BULK TRUCK
 # DRIVER

REMARKS:
Est. Circulation
Mix 150 sk Cement
Displace w/ 13 Bbl H₂O
Cement Did Circulate!
Thank You!

CHARGE TO: Crawford Oil & Gas
 STREET
 CITY STATE ZIP

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]
 SIGNATURE [Signature]

OWNER
 CEMENT
 AMOUNT ORDERED 150 com 3/4 cc 2 1/2 Gel

COMMON @
 POZMIX @
 GEL @
 CHLORIDE @
 ASC @
 HANDLING @
 MILEAGE @

TOTAL
 SERVICE

DEPTH OF JOB
 PUMP TRUCK CHARGE
 EXTRA FOOTAGE @
 MILEAGE @
 MANIFOLD @

TOTAL

PLUG & FLOAT EQUIPMENT
 @
 @
 @
 @
 @
 TOTAL

SALES TAX (If Any)
 TOTAL CHARGES
 DISCOUNT IF PAID IN 30 DAYS

RECEIVED
 NOV 19 2010
 KCC WICHITA



CHARGE TO: *Crawford Oil & Gas*

ADDRESS:

CITY, STATE, ZIP CODE:

TICKET
27998

PAGE 1 OF 1

SERVICE LOCATIONS
1. *Hays, Ks.*
2. *Ness City, Ks.*
3.
4.

WELL/PROJECT NO. *#2-24* LEASE *C.B.* COUNTY/PARISH *Norton* STATE *Ks* CITY DATE *8-5-10* OWNER *Same*

TICKET TYPE SERVICE SALES CONTRACTOR *Express Well Service* RIG NAME/NO. SHIPPED VIA *CH* DELIVERED TO *Location* ORDER NO.

WELL TYPE *oil* WELL CATEGORY *Development* NOB PURPOSE *Part Collar* WELL PERMIT NO. WELL LOCATION

REFERRAL LOCATION INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575		1			MILEAGE #11	70	mi			5 ⁰⁰	350 ⁰⁰
576D		1			Pump Charge (Part Collar)	1	ea	1700		1100 ⁰⁰	1100 ⁰⁰
290		1			D-Air	2	gal			35 ⁰⁰	70 ⁰⁰
100		1			Pickup Mileage	70	mi			2 ⁰⁰	140 ⁰⁰
105		1			P.C. Tool Rental w/man	1	ea	300		300 ⁰⁰	300 ⁰⁰
57330	KCC WICHITA NOV 19 2010 RECEIVED	2			SMD Cement	175	sk			15 ⁰⁰	2625 ⁰⁰
276		2			Fluore	50	#			1 ⁵⁰	75 ⁰⁰
581		2			Cement Service Charge	250	sk			1 ⁵⁰	375 ⁰⁰
583		2			Drayage	855	TM			1 ⁰⁰	855 ⁰⁰

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, **PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY** provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

X

DATE SIGNED *8-5-10* TIME SIGNED *12:30* A.M. P.M.

REMIT PAYMENT TO:

SWIFT SERVICES, INC.
P.O. BOX 466
NESS CITY, KS 67560
785-798-2300

SURVEY	AGREE	UN-DECIDED	DIS-AGREE	PAGE TOTAL
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				5890 ⁰⁰
WE UNDERSTOOD AND MET YOUR NEEDS?				
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES <input type="checkbox"/> NO			
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND				TOTAL

Norton TAX 7.05% 216⁴⁴

TOTAL 6106⁴⁴

JOB LOG

SWIFT Services, Inc.

DATE 8-5-10 PAGE NO. 7

CUSTOMER Crawford Oil & Gas WELL NO. 2-24 LEASE C.B. JOB TYPE Part Collar TICKET NO. 17998

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0830							on loc w/ P.C. Tool
	0915							Rig on loc P.C. 1700'
	1000							TTH w/ P.C. opening Tool locate P.C. @ 1763' RECEIVED NOV 19 2010
	1115						1000	Test Csg to 1000 Psi
	1120	4	5			300		Open P.C. & Take injection rate
	1125	4.5	0			300		Start Cement 175sks SMD
	1145	4.5	85			450		circ cement/raise weight
	1146		90/0			450		End Cement/Start Displacement
	1148		6			400		Cement Displaced
	1155						1000	Close P.C. Test Csg
	1205	3	0					Run 5'its Reverse out
	1210		15					Hole clean
								175sks SMD CIRC 20sks top it
								Thank you Nick, Josh & Gideon



CHARGE TO: Crawford Oil Co.
 ADDRESS: _____
 CITY, STATE, ZIP CODE: _____

TICKET
18227

PAGE 1 OF 2

SERVICE LOCATIONS
 1. Wayside WELL/PROJECT NO. 2-39 LEASE C B COUNTY/PARISH Norton STATE Ks CITY _____ DATE 7-26-11 OWNER _____
 2. Ness City, Ks TICKET TYPE SERVICE CONTRACTOR 10101 RIG NAME/NO. _____ SHIPPED VIA 27 DELIVERED TO W/Hogan, Ks ORDER NO. _____
 3. _____ WELL TYPE Oil WELL CATEGORY W/Work JOB PURPOSE Remount Longstone WELL PERMIT NO. _____ WELL LOCATION _____
 4. _____ REFERRAL LOCATION _____ INVOICE INSTRUCTIONS _____

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575		1			MILEAGE # 113	71	mi			500	251.00
575		1			Pump Charge	1	ea			1400.00	1400.00
231		1			Liquid KCI	2	gal			25.00	50.00
231		1			Mud Flush	500	gal			1.00	500.00
296		1			D. Ho	2	gal			35.00	70.00
712		1			Neutralizers	10	ea	4 1/2	in	50.00	500.00
712		1			Concrete Baskets	1	ea	4 1/2	in	210.00	210.00
712		1			Pool Collar	1	ea	4 1/2	in	1910.00	1910.00
716		1			Latch Down Plug / Ballb	1	ea	4 1/2	in	310.00	310.00
717		1			Tussock Seal Stop w/ Sub. Kit	1	ea	4 1/2	in	250.00	250.00
719		1			Fiberglass Hoop Rental	1	ea	4 1/2	in	150.00	150.00

RECEIVED
 NOV 19 2010
 KCC WICHITA

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, **PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY** provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

X _____
 DATE SIGNED 7-26-11 TIME SIGNED 12:45 A.M. P.M.

REMIT PAYMENT TO:
 SWIFT SERVICES, INC.
 P.O. BOX 466
 NESS CITY, KS 67560
 785-798-2300

SURVEY

OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?	AGREE	UN-DECIDED	DIS-AGREE
WE UNDERSTOOD AND MET YOUR NEEDS?			
OUR SERVICE WAS PERFORMED WITHOUT DELAY?			
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?			
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES <input type="checkbox"/> NO		
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND			

PAGE TOTAL	1.2	5570.00
TAX		3797.34
TOTAL		9367.34

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

SWIFT OPERATOR _____ APPROVAL _____

Thank You!



PO Box 466
 Ness City, KS 67560
 Off: 785-798-2300

TICKET CONTINUATION

TICKET No. 18227

CUSTOMER *Crowford Oil Co.* WELL *2-2-1* *CB* DATE *7-26-11* PAGE *2* OF *2*

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	QTY.		QTY.		UNIT PRICE	AMOUNT		
		LOC	ACCT	DF			QTY.	UM	QTY.	UM				
<i>325</i>		<i>2</i>				<i>Standard Cement</i>	<i>EA2</i>	<i>175</i>	<i>SKS</i>	<i>11.457</i>	<i>lbs</i>	<i>12.00</i>	<i>2100.00</i>	
<i>276</i>		<i>2</i>				<i>Flocals</i>		<i>241</i>	<i>lbs</i>			<i>1.50</i>	<i>361.50</i>	
<i>283</i>		<i>2</i>				<i>Sulf</i>		<i>875</i>	<i>lbs</i>			<i>15</i>	<i>13125</i>	
<i>294</i>		<i>2</i>				<i>Calsoad</i>		<i>823</i>	<i>lbs</i>	<i>9</i>	<i>SKS</i>	<i>30.00</i>	<i>2469.00</i>	
<i>295</i>		<i>2</i>				<i>CFR-1</i>		<i>82</i>	<i>lbs</i>			<i>400</i>	<i>32800</i>	
<i>581</i>		<i>2</i>				SERVICE CHARGE <i>Cement</i>				CUBIC FEET	<i>175</i>	<i>SKS</i>	<i>1.50</i>	<i>262.50</i>
<i>583</i>		<i>2</i>				MILEAGE CHARGE	TOTAL WEIGHT <i>17374 lbs</i>	LOADED MILES <i>76</i>		TON MILES	<i>639.59</i>		<i>1.00</i>	<i>639.59</i>

RECEIVED
 NOV 19 2010
 KCC WICHITA

CONTINUATION TOTAL *3797.34*

JOB LOG

SWIFT Services, Inc.

DATE 7-26-10 PAGE NO. 1

CUSTOMER *Crawford Oil Co.* WELL NO. *2-24* LEASE *CB* JOB TYPE *Cement Longtium* TICKET NO. *19327*

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	<i>0730</i>							<i>On location with float equip.</i>
	<i>0845</i>							<i>Ris changing over to run 9 1/2 11.67ft</i>
	<i>10:20</i>							<i>Start casing - Insert float stop 1 1/4" FA-2</i>
	<i>10:40</i>							<i>L.D. Collar - 53-15'</i>
	<i>11:13</i>		<i>5</i>					<i>Cent 1-2-5-7-9-11-13-15-17-19</i>
	<i>11:50</i>	<i>5</i>	<i>12</i>			<i>150</i>		<i>Cent basket - 47</i>
	<i>11:50</i>	<i>6</i>	<i>20</i>			<i>200</i>		<i>Part Collar #47 17-13'</i>
	<i>11:43</i>		<i>32</i>					<i>Disg fill up ball 7 1/2" cut</i>
	<i>11:50</i>	<i>4</i>	<i>32</i>					<i>Tag bottom - Lay 31' down</i>
	<i>11:43</i>							<i>Start circ - Rotate casing same</i>
	<i>11:43</i>							<i>Fin circ</i>
	<i>11:50</i>	<i>4</i>	<i>32</i>					<i>Plug RH - 31 STS FA-2 end</i>
						<i>150</i>		<i>Pump 500 gal head back</i>
						<i>200</i>		<i>Pump 21 BBL KCI flush</i>
		<i>4 1/2</i>						<i>Fin flushes - Full track</i>
						<i>150</i>		<i>Start 145 SKS FA-2 end - mixing</i>
								<i>Water from water head - Rotate casing</i>
	<i>12:07</i>		<i>37</i>			<i>200</i>		<i>Fin cent - Wash out 1 1/4" / hour</i>
								<i>Weg L.D. Plug</i>
	<i>12:11</i>	<i>9</i>				<i>900</i>		<i>Start Displ - Rotate casing</i>
		<i>8</i>	<i>40</i>			<i>300</i>		<i>Caught coal</i>
		<i>6</i>	<i>50</i>			<i>500</i>		<i>slow rate</i>
	<i>12:20</i>	<i>0</i>	<i>51 1/2</i>			<i>150 / 1500</i>		<i>Plug down - Hold - Release - Hold</i>
	<i>12:30</i>							<i>Job Complete</i>
								<i>10/10</i>
								<i>Ben, Long Division</i>
	<i>12:00</i>							