

Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1350794  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

Form must be Typed  
Form must be Signed  
All blanks must be Filled

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # \_\_\_\_\_

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

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

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

Wellsite Geologist: \_\_\_\_\_

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
- Plug Back       Conv. to GSW       Conv. to Producer
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

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

API No. 15 - \_\_\_\_\_

Spot Description: \_\_\_\_\_

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

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE       NW       SE       SW

GPS Location: Lat: \_\_\_\_\_, Long: \_\_\_\_\_  
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum:  NAD27       NAD83       WGS84

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Vertical Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ 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.

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 #: \_\_\_\_\_

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.

Submitted Electronically

KCC Office Use ONLY

- Confidentiality Requested  
Date: \_\_\_\_\_
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

1350794

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops 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.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Electric Log Run	<input type="checkbox"/> Yes <input type="checkbox"/> No			
List All E. Logs Run:				

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	# Sacks Used	Type and Percent Additives

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				

Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No *(If No, fill out Page Three of the ACO-1)*

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:  Yes  No

Date of First, Resumed Production, SWD or ENHR. \_\_\_\_\_ Producing Method:  
 Flowing     Pumping     Gas Lift     Other *(Explain)* \_\_\_\_\_

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

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

Form	ACO1 - Well Completion
Operator	Palmer Oil, Inc.
Well Name	CORY 1-1
Doc ID	1350794

All Electric Logs Run

Induction
Porosity
Micro
Sonic

Form	ACO1 - Well Completion
Operator	Palmer Oil, Inc.
Well Name	CORY 1-1
Doc ID	1350794

Tops

Name	Top	Datum
Heebner	4316	-1284
Lansing	4453	-1421
B/KC	5112	-2080
Marmaton	5212	-2180
Pawnee	5465	-2433
Cherokee	5580	-2548
Morrow	5948	-2916
Chester	6400	-3386
St.Gen	6620	-3588





CHARGE TO: <del>XX</del>
ADDRESS: PALMER OIL
CITY, STATE, ZIP CODE:

TICKET 30221

PAGE 1 OF 2

SERVICE LOCATIONS 1. NESS CITY, KS.	WELL/PROJECT NO. CORY 1-1	LEASE STEVENS	COUNTY/PARISH LIBERAL, KS	STATE KS	CITY LIBERAL, KS	DATE 11 MAR 17	OWNER
2.	TICKET TYPE <input type="checkbox"/> SERVICE <input checked="" type="checkbox"/> SALES	CONTRACTOR DUKE DRILLING TRIP #5	RIG NAME/NO.	SHIPPED VIA	DELIVERED TO	ORDER NO.	
3.	WELL TYPE OIL	WELL CATEGORY DEVELOPMENT	JOB PURPOSE CEMENT 8 5/8	WELL PERMIT NO.	WELL LOCATION N to Hwy 51, 1/2 W to RD 20, 10S, 2E, 3/4S, W 1/2 J		
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		UNIT PRICE	AMOUNT
		LOC	ACCT	DF			U/M		
575					MILEAGE # 115	150	mL	5.00	750.00
576D					Pump CHARGE.	1	JOB	1250.00	1250.00
400					GUIDE SHOE	1	EA	350.00	350.00
401					INSERT FLOAT W/ FILL	1	EA	200.00	200.00
409					TURBOLIZERS	3	EA	95.00	285.00
194					PLUG CONTAINER RENTAL	1	JOB	200.00	200.00
									3035.00

**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 *Kenneth McWhorter*

DATE SIGNED: 11 MAR 17 TIME SIGNED: 10:15  A.M.  P.M.

**REMIT PAYMENT TO:**

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

<b>SURVEY</b>		AGREE	UN-DECIDED	DIS-AGREE	<b>PAGE TOTAL</b>
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?					
WE UNDERSTOOD AND MET YOUR NEEDS?					17060.15
OUR SERVICE WAS PERFORMED WITHOUT DELAY?					20,095.15
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?					Tax 6.5%
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES <input type="checkbox"/> NO				853.37
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND					<b>TOTAL</b>

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

SWIFT OPERATOR: *J. K. Rostoff*

APPROVAL

Thank You!



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

TICKET CONTINUATION

TICKET No. 30221

CUSTOMER PALMER OIL WELL CORY 1-1 DATE 11 MAR 17 PAGE 21 OF 2

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	QTY		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF			QTY	U/M	QTY	U/M		
276						FLOCELE	175	SX			2 <sup>25</sup>	393 <sup>75</sup>
281						MUD FLUSH	500	GR			1 <sup>25</sup>	625 <sup>00</sup>
221						KCL	2	GR			25 <sup>00</sup>	50 <sup>00</sup>
330						SMD CEMENT	700	SX			15 <sup>75</sup>	11025 <sup>00</sup>
581						SERVICE CHARGE					1 <sup>50</sup>	1050 <sup>00</sup>
583						MILEAGE CHARGE					7 <sup>15</sup>	3916 <sup>40</sup>
						TOTAL WEIGHT	626	25				
						LOADED MILES	15	0				
						TON MILES	522	1.87				

CONTINUATION TOTAL 17,060<sup>15</sup>

CUSTOMER ~~AMERICAN WARRIOR~~ WELL NO. LEASE CORY 1-1 JOB TYPE CEMENT 8 5/8 TICKET NO. 30221

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS	
				T	C	TUBING	CASING		
	0200							ON LOCATION	
								RID @ 1795 SS. 41.91 SET @ 1782	
	0515							START PIPE 8 5/8 - 23# CENTRALIZER 1, #20, 37	
	0744							DROP BALL - CIRCULATE	
	0808	6	12		✓		400	Pump 500 gal MUD FLUSH	
		6	20		✓		400	Pump 20 BBL KCL SPACER	
	0814	7 1/2	92		✓		400	MIX 200 @ 11.8 ppb.	
		7 1/2	114		✓		400	MIX 300 @ 12.5 ppb	
		5	31		✓		200	MIX 100 @ 13.5 ppb.	
		5	26		✓		200	MIX 100 @ 14.5 ppb.	
			263 TOTAL Bbls of CEMENT.						
	0908	7			✓			RELEASE PLUG - START DISPLACING	
	0932		111 1/2		✓		800	PLUG DOWN - SALT IN. CIRCULATE CEMENT TO SURFACE	
	0937							WASH TRUCK	
	1015							JOB COMPLETE	
								THANKS \$115	
								JASON DAVE FRESTON JOHN	





CHARGE TO: Palmer Oil

ADDRESS

CITY, STATE, ZIP CODE

TICKET 30169

PAGE 1 OF 1

1. SERVICE LOCATIONS <u>Wes City KS</u>	WELL/PROJECT NO. <u>101</u>	LEASE <u>Cory</u>	COUNTY/PARISH <u>Stevens</u>	STATE <u>KS</u>	CITY <u>Liberal</u>	DATE <u>18 MAR 17</u>	OWNER
2. TICKET TYPE <input type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR <u>OWE</u>		RIG NAME/NO. <u>5</u>	SHIPPED <u>VIA</u>	DELIVERED TO <u>location</u>	ORDER NO.	
3. WELL TYPE <u>oil</u>	WELL CATEGORY <u>PLA</u>	JOB PURPOSE <u>Plug to Abandon</u>		WELL PERMIT NO.	WELL LOCATION <u>1-35-36</u>		
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	150	mi			5.00	750.00
576P		1			Pump Charge	1	hr			800.00	800.00
328-4		1			60/40 pozmix (4%gel)	170	sk			10.25	1742.50
290		1			D-AIR	2	gal			42.00	84.00
581		1			service charge	170	sk			1.50	255.00
583		1			Drayage	14229	lb	1067.18	TM	0.75	800.38

**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

DATE SIGNED

TIME SIGNED 2:30

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	4431.88
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?					
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 checked="" type="checkbox"/> YES		<input type="checkbox"/> NO		
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND				TOTAL	4719.95

Stevens Co  
TAX  
6590

JOB LOG

SWIFT Services, Inc.

DATE 18 MAR 17 PAGE NO. 1

CUSTOMER Palmer Oil WELL NO. 1-1 LEASE COR4 JOB TYPE Plug to Abandon TICKET NO. 30169

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								170 sk 60/40 poz mix (4% gel) 1/2" drill pipe x 73' plus 50sk - 1830 50sk 690 20sk 60' 30sk RH / 20sk MH
	1800							on loc TRK 114
	1805							RUN drill pipe in hole
	1839	4	13			250		Mix 60/40 poz mix (4% gel) 50sk Displace to 1830
	1900							Pull to 690'
	1955	4	13			250		Mix 60/40 poz mix (4% gel) 50sk Displace to 690'
	2005							pull to 60'
	2025	3	6			Ø		Mix 60/40 poz mix 20sk → can't to surface ←
	2030							Plug RH 50sk MH 20sk } 172sk total can't to surface in cell loc
	2100							Wash truck Rack up
	2125							job complete TRK Flow, Fluid & 15000

# **Geological Report**

Palmer Oil, Inc.

**Cory #1-1**

1330' FSL & 1022' FEL

Sec 1, T35s, R36w

Stevens County, Kansas



**Palmer Oil, Inc.**

## General Data

Well Data: Palmer Oil, Inc.  
Cory #1-1  
1330' FSL & 1022' FEL  
Sec. 1, T35s, R36w  
Stevens County, Kansas  
API # 15-189-22845-00-00

Drilling Contractor: Duke Drilling Co. Rig #5

Geologist: Luke Thompson

Spud Date: March 9, 2017

Completion Date: March 20, 2017

Elevation 3021' G.L.  
3032' K.B.

Directions: From the SW side of Liberal, KS at the intersection of 2nd St Rd & S Western Ave – Now go 5 miles West on 2nd St Rd – Now go 1 mile North on 2nd St Rd – Now go 8 miles West on 2nd St Rd - Now go 0.75 miles South on Rd 22 to stake into – Now go 1022' West into

Casing: 1782' 8 5/8" 23# Surface Casing

Samples: Surface to RTD 30' Dry;  
4200' to RTD 30' wet & dry

Drilling Time: 4200' to RTD

Electric Logs: Halliburton "Whitlock"  
Full Sweep

Drillstem Tests: None

Problems: Pulled Tight on all pipe trips  
Gained mud weight through upper Morrow Shale

## Formation Tops

Cory #1-1

Sec. 1, T35s, R36w

1330' FSL & 1022' FEL

Heebner	4316' -1284
Toronto	4334' -1302
Lansing	4453' -1421
BKC	5112' -2080
Marmaton	5212' -2180
Pawnee	5465' -2433
Cherokee	5580' -2548
Atoka Lime	5908' -2876
Morrow	5948' -2916
Chester Lime	6400' -3368
St. Gen	6620' -3588
RTD	6800' -3768
LTD	6801' -3769

### Sample Zone Descriptions

**Chester Sand (6538', -3506):**

Sandstone, clear to white, fine grained, sub-round, semi spherical, fair sorting, fair-poor cementation, good inter-crystalline porosity, no odor, poor stain and saturation, fair green fluorescence, fair slow stream cut. Gas 275 units hotwire.

## Structural Comparison

	Palmer Oil, Inc. Cory #1-1 Sec. 1, T35s, R36w 1330' FSL & 1022' FEL		Oxy USA Inc. Wiggains #12-7 Sec. 12, T35s, R36w 330' FNL & 330' FEL		EOG Resources Hittle Trust Sec. 1, T35s, R36w 400' FSL & 2310' FEL
<b>Formation</b>					
Heebner	4316' -1284	+10	4310' -1294	-3	4318' -1281
Toronto	4334' -1302	+11	4329' -1313	-3	4336' -1299
Lansing	4453' -1421	+9	4446' -1430	-3	4456' -1419
BKC	5112' -2080	+10	5106' -2090	-11	5106' -2069
Marmaton	5212' -2180	+12	5208' -2192	-11	5206' -2169
Pawnee	5465' -2433	+7	5456' -2440	-6	5464' -2427
Cherokee	5580' -2548	+10	5574' -2558	-5	5580' -2543
Atoka Lime	5908' -2876	+2	5894' -2878	-11	5902' -2865
Morrow	5948' -2916	0	5932' -2916	-13	5940' -2903
Chester Lm	6400' -3368	+7	6391' -3375	+7	6412' -3375
St. Gen	6620' -3588	+26	6630' -3614	-3	6622' -3585

### Summary

The location for the Cory #1-1 well was found via 3-D seismic survey. The new well ran structurally as expected. No sufficient pay zone was encountered while drilling and no drill stem tests were conducted. After all the gathered data had been examined, the decision was made to plug and abandon the Cory #1-1 well.

Respectfully Submitted,

Lukas Thompson  
Palmer Oil, Inc.