

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 # 32429  
 Name: CRAWFORD OIL & GAS, INC.  
 Address: P. O. Box 51  
 City/State/Zip: Coldwater, Kansas 67029  
 Purchaser: ANR  
 Operator Contact Person: MARK PINNICK  
 Phone: (316) 582-2612  
 Contractor: Name: DUKE DRILLING CO., INC  
 License: 5929  
 Wellsite Geologist: Jon Christensen  
 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. \_\_\_\_\_  
5/8/00 5/24/00 5/31/00  
 Spud Date or Date Reached TD Completion Date or Recompletion Date

RECEIVED  
 STATE CORPORATION COMMISSION  
 JUL 26 2000

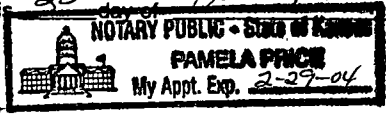
API No. 15 - 033-21,058-0000  
 County: Comanche  
 App SE-NE-SE Sec. 34 Twp. 33 S. R. 18  East  West  
1625 feet from  N (circle one) Line of Section  
320 feet from  W (circle one) Line of Section  
 Footages Calculated from Nearest Outside Section Corner:  
 (circle one) NE  SE NW SW  
 Lease Name: R. BLOUNT Well #: 1  
 Field Name: Buttermilk East  
 Producing Formation: Heartha & Pawnee  
 Elevation: Ground: 1891' Kelly Bushing: 1899'  
 Total Depth: 6030' Plug Back Total Depth: 5244  
 Amount of Surface Pipe Set and Cemented at 588 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 ALT 1 gpl 9/12/00  
 (Data must be collected from the Reserve Pit)  
 Chloride content 22,000 ppm Fluid volume 700 bbls  
 Dewatering method used haul off  
 Location of fluid disposal if hauled offsite:  
 Operator Name: GORDON KEANE  
 Lease Name: HARMON License No.: 5993  
 Quarter NW Sec. 11 Twp. 33 S. R. 20  East  West  
 County: Comanche Docket No.: 22304

**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: Mark Pinnick  
 Title: Supt. Operations Date: 7-25-00  
 Subscribed and sworn to before me this 25<sup>th</sup> day of July  
 to 2000.  
 Notary Public: Pamela Price  
 Date Commission Expires: Feb. 29, 2004



**KCC Office Use ONLY**

Letter of Confidentiality Attached  
 If Denied, Yes  Date: \_\_\_\_\_  
 Wireline Log Received  
 Geologist Report Received  
 UIC Distribution

X

R ← KCC  
JH →

Operator Name: CRAWFORD OIL & GAS, INC. Lease Name: X. BLOUNT Well #: 1 X

Sec. 34 Twp. 33 S. R. 18  East  West County: Comanche

**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:

High Resolution Induction  
Spectral Density Neutron  
Cement Bond

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
Conductor		20"		40	10 Sack Grout	4 yds	
Surface	12-1/4"	8-5/8"	24#	588	Lite	225	3cc, 1/4# Flocele
Production	7-7/8"	4-1/2"	10.5#	5305	Premium	260	10% Salt, 5% Kalseal

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 (Amount and Kind of Material Used)		Depth
	6 spf	4912-15		1000 Gal 15% acid	
6 spf	5096-99				

TUBING RECORD		Size	Set At	Packer At	Liner Run
		2 3/8	5045	N/A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumerd Production, SWD or Enhr.		Producing Method			
WOPL		<input checked="" 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
	0	300			

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

METHOD OF COMPLETION  Open Hole  Perf.  Other (Specify)

Production Interval **4912-4915'**  
**5096-5099'**

# ALLIED CEMENTING CO., INC.

1385 ORIGINAL

Federal Tax I.D.# 48-0727860

TO P.O. BOX 31  
RUSSELL, KANSAS 67665

SERVICE POINT:  
meckledge

DATE <u>5-9-00</u>	SEC. <u>34</u>	TWP. <u>33s</u>	RANGE <u>18W</u>	CALLED OUT <u>10:00PM</u>	ON LOCATION <u>12:30A.M.</u>	JOB START <u>4:00A.M.</u>	JOB FINISH <u>6:00A.M.</u>
LEASE <u>Butte</u>	WELL.#. <u>3</u>	LOCATION <u>Buttermilk, 35-1n-1E</u>		COUNTY <u>COMANCHE</u>	STATE <u>KS</u>		
OLD OR NEW (Circle one)			<u>n/s</u>				

CONTRACTOR Duke Dry  
 TYPE OF JOB Surface Cas.  
 HOLE SIZE 12 1/4 T.D. 587'  
 CASING SIZE 8 3/8 DEPTH 587  
 TUBING SIZE DEPTH  
 DRILL PIPE DEPTH  
 TOOL DEPTH  
 PRES. MAX 400 MINIMUM 450  
 MEAS. LINE SHOE JOINT 44.84  
 CEMENT LEFT IN CSG.  
 PERFS.  
 DISPLACEMENT Fresh H<sub>2</sub>O  
 EQUIPMENT

OWNER Crawford O. HGAS  
 CEMENT  
 AMOUNT ORDERED 225sx. ALW + 3%cc  
1/4# Flo Seal 295sx. CLASS A  
3%cc + 2%Gel  
 COMMON H 195 @ 6.35 1239.25  
 POZMIX @  
 GEL 4 @ 9.50 38.00  
 CHLORIDE 14 @ 28.00 392.00  
ALW 225 @ 6.00 1350.00  
Flo Seal 56# @ 1.6 64.40  
 @  
 @  
 @  
 @  
 @  
 HANDLING 420 @ 1.05 441.00  
 MILEAGE 420 x .50 .04 840.00

PUMP TRUCK CEMENTER Larry Dreading  
 # 302 HELPER Mark B.  
 BULK TRUCK  
 # 240 DRIVER David F  
 BULK TRUCK  
 # DRIVER

TOTAL \$14000.00  
4363.30

### REMARKS:

Pipe on Bottom - Pump Capacity / cs  
Pump 225sx ALW + 3%cc - 1/4#  
Flo Seal Pump 100sx CLASS A  
3%cc + 2%Gel Release Plug  
Displace w/ 3.5Bbs Fresh H<sub>2</sub>O  
Bump Plug Shuff In Top out  
w/ 45sx CLASS A + 3%cc + 2%Gel  
Cement Cure In Cellar

### SERVICE

DEPTH OF JOB 587'  
 PUMP TRUCK CHARGE 0-300' 470.00  
 EXTRA FOOTAGE 287' @ .43 123.41  
 MILEAGE 50 @ 2.85 142.50  
 PLUG TRIP 8 3/8 @ 90.00 90.00  
 @  
 @

TOTAL \$825.91

CHARGE TO: Crawford O. HGAS  
 STREET P.O. Box 823  
 CITY Greer OK STATE KANSAS ZIP 7530

### FLOAT EQUIPMENT

1- Baffle Plate @ 45.00 45.00  
~~2- Baffle Plates~~ @  
2- Basket @ 150.00 300.00  
 @  
 @

TOTAL \$345.00

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 \$825.91  
 DISCOUNT 100.00 IF PAID IN 30 DAYS  
\$725.91

SIGNATURE x Mary E Sharp

x Gary E. Thorp  
 PRINTED NAME



TICKET # **644711** TICKET DATE **5-24-00**  
 BDA / STATE **KS** COUNTY **COMANCHE**  
 PSL DEPARTMENT **ZONAL ISOLATION**  
 CUSTOMER REP / PHONE **MARK PENNICK**  
 API / UWI #  
 JOB PURPOSE CODE **035**

REGION **North America** NWA/COUNTRY **MID CONTINENT**  
 MBU ID / EMP # **MCL 10104 105848** EMPLOYEE NAME **JOHN WOODROW**  
 LOCATION **LIBERAL KS** COMPANY **NAKE DRILLING**  
 TICKET AMOUNT **\$ 10 940.52** WELL TYPE **01**  
 WELL LOCATION **SO. COLDWATER** DEPARTMENT **CEMENT**  
 LEASE / WELL # **R BLOCUT # B # 2** SEC / TWP / RNG **34-33S-18W**

HES EMP NAME/EMP#/(EXPOSURE HOURS)	HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS)	HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS)	HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS)	HRS
<b>J. WOODROW 105848</b>							
<b>A. ZIMMERMANN 202875</b>							
<b>J. STANKO 199491</b>							

HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES
<b>42021 D/L</b>	<b>120</b>						
<b>54219 / 78299</b>	<b>126</b>						
<b>54225 / 77031</b>	<b>100</b>						

Form Name \_\_\_\_\_ Type: \_\_\_\_\_  
 Form Thickness \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_  
 Packer Type \_\_\_\_\_ Set At \_\_\_\_\_  
 Bottom Hole Temp. \_\_\_\_\_ Pressure \_\_\_\_\_  
 Misc. Data \_\_\_\_\_ Total Depth \_\_\_\_\_

**TOOLS AND ACCESSORIES**

TYPE AND SIZE	QTY	MAKE
Float Collar <b>LD RATHER 4 1/2</b>	<b>1</b>	<b>H</b>
Float Shoe		
Guide Shoe <b>REG 4 1/2</b>	<b>1</b>	<b>O</b>
Centralizers <b>S-40 4 1/2</b>	<b>6</b>	
Bottom Plug		<b>W</b>
Top Plug <b>LD 4 1/2</b>	<b>1</b>	
Head <b>D/C 4 1/2</b>	<b>1</b>	<b>C</b>
Packer		
Other <b>BASKET 4 1/2</b>	<b>2</b>	<b>O</b>

**MATERIALS**

Treat Fluid _____	Density _____	Lb/Gal _____
Disp. Fluid _____	Density _____	Lb/Gal _____
Prop. Type _____	Size _____	Lb. _____
Prop. Type _____	Size _____	Lb. _____
Acid Type _____	Gal. _____	% _____
Acid Type _____	Gal. _____	% _____
Surfactant _____	Gal. _____	In _____
NE Agent _____	Gal. _____	In _____
Fluid Loss _____	Gal/Lb _____	In _____
Gelling Agent _____	Gal/Lb _____	In _____
Fric. Red. _____	Gal/Lb _____	In _____
Breaker _____	Gal/Lb _____	In _____
Blocking Agent _____	Gal/Lb _____	
Perfpac Balls _____	Qty. _____	
Other _____		
Other _____		
Other _____		
Other _____		

DATE	CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
	<b>5:24:00</b>	<b>5:29:00</b>	<b>5:25:00</b>	<b>5:25:00</b>
TIME	<b>1400</b>	<b>1830</b>		

**WELL DATA**

	NEW/USED	WEIGHT	SIZE	FROM	TO	MAX ALLOW
Casing	<b>N</b>	<b>10.5</b>	<b>4 1/2</b>	<b>KB</b>	<b>530.5</b>	
Liner						
Liner						
Tbg/D.P.						
Tbg/D.P.						
Open Hole						SHOTS/FT.
Perforations						
Perforations						
Perforations						

HOURS ON LOCATION		OPERATING HOURS		DESCRIPTION OF JOB
DATE	HOURS	DATE	HOURS	
				<b>(SEE JOB LOG)</b>
<b>TOTAL</b>		<b>TOTAL</b>		

**HYDRAULIC HORSEPOWER**

ORDERED	Avail.	Used
TREATED	AVERAGE RATES IN BPM	Overall
FEET <b>511.70</b>	CEMENT LEFT IN PIPE	Reason <b>511 OF JOINT</b>

**CEMENT DATA**

STAGE	SACKS	CEMENT	BULK/SKS	ADDITIVES	YIELD	LBS/GAL
	<b>785</b>	<b>PREMIUM</b>	<b>B</b>	<b>58 GAL SPAL, 10.8 SALZ, .759 MAND-322, 5 GAL SODITE</b>	<b>1.29</b>	<b>15.6</b>

Circulating \_\_\_\_\_ Displacement \_\_\_\_\_ Preflush: Gal - **(BBI) 12** Type **Mud FLUSH**  
 Breakdown \_\_\_\_\_ Maximum \_\_\_\_\_ Load & Bkdn: Gal - **BBI** Pad: **BBI** Gal  
 Average \_\_\_\_\_ Frac Gradient \_\_\_\_\_ Treatment Gal - **BBI** Disp: **(BBI)** Gal **83.8**  
 Shut In: Instant \_\_\_\_\_ 5 Min \_\_\_\_\_ 15 Min \_\_\_\_\_ Cement Slurr Gal - **(BBI) 65.4**  
 Total Volume Gal - **BBI**

Frac Ring #1 \_\_\_\_\_ Frac Ring #2 \_\_\_\_\_ Frac Ring #3 \_\_\_\_\_ Frac Ring #4 \_\_\_\_\_  
**THE INFORMATION STATED HEREIN IS CORRECT** CUSTOMER'S REPRESENTATIVE SIGNATURE **Mark Pennick**