

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: PRG
Operator Contact Person: MARK PINNICK
Phone: (316) 582-2612
Contractor: Name: DUKE DRILLING CO., INC.
License: 5929
Wellsite Geologist: _____

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: SUNRAY AND RINE DRILLING
Well Name: F. W. BRINKMAN #1

Original Comp. Date: 5/12/60 Original Total Depth: 6390'
____ 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. _____

5/30/00 6/1/00 6/1/00
Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No. 15 - 033-00037-0001
County: Comanche
C SE SE Sec. 3 Twp. 34 S. R. 18 East West
660 feet from (S) / N (circle one) Line of Section
660 feet from (E) / W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:
(circle one) NE (SE) NW SW
Lease Name: R BLOUNT Well #: 2 "OWWO"
Field Name: Buttermilk East
Producing Formation: Mississippian

Elevation: Ground: 1876' Kelly Bushing: 1884'
Total Depth: 6059' Plug Back Total Depth: 5389
Amount of Surface Pipe Set and Cemented at 1489 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 REENTRY gfs 10/4/00
(Data must be collected from the Reserve Pit)
Chloride content 62,000 ppm Fluid volume 400 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

RECEIVED
STATE CORPORATION COMMISSION
AUG 19 2000

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. Operation Date: 8-7-00
Subscribed and sworn to before me this 7th day of Aug.
2000.
Notary Public: Pamela Price
Date Commission Expires: Feb. 29, 2004

NOTARY PUBLIC - State of Kansas
PAMELA PRICE
My Appt. Exp. 2-29-04

KCC Office Use ONLY
____ Letter of Confidentiality Attached
 If Denied, Yes Date: _____
____ Wireline Log Received
____ Geologist Report Received
____ UIC Distribution

Operator Name: CRAWFORD OIL & GAS, INC. Lease Name: R. BLOUNT Well #: 2 "OWWO"
 Sec. 3 Twp. 34 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)

List All E. Logs Run:
 Spectral Density Neutron
 High Resolution Induction

Log Formation (Top); Depth and Datum Sample
 Name _____ Top _____ Datum _____

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"					
Surface	12-1/4"	8-5/8"	24#	1489'			
Production	7-7/8"	4-1/2"	10.5#	5463.	Class H	125	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	5252-56		1000 Gal. 15% Acid	
6 SPF	5296-5306		160 Sx Sand	400 Bbl. H ₂ O	

TUBING RECORD	Size <u>2 3/8</u>	Set At <u>5206</u>	Packer At <u>NA</u>	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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Date of First, Resumed Production, SWD or Enhr. <u>WOPL</u>	Producing Method <input checked="" type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)
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Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf <u>250</u>	Water Bbls. <u>20</u>	Gas-Oil Ratio	Gravity
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Disposition of Gas Vented Sold Used on Lease (If vented, Sumit ACO-18.)

METHOD OF COMPLETION Open Hole Perforated Dually Comp. Commingled Other (Specify)

Production Interval 5252-5256'
5296-5306'

REGION North America	NWA/COUNTRY MidCont USA	SDA / STATE Ks	COUNTY Comanche
MBU ID / EMP # MCL10110 106328	EMPLOYEE NAME Nick Kerba	PSL DEPARTMENT 21	
LOCATION Liberal	COMPANY Crawford Oil & Gas	CUSTOMER REP / PHONE Mark Pennick	
TICKET AMOUNT \$6691.17	WELL TYPE 01	API / UWI #	
WELL LOCATION 3E of Buttermilk	DEPARTMENT Cement	JOB PURPOSE CODE 035 ORIGINAL	
LEASE / WELL # R Blavat Oil #2	SEC / TWP / RANG 3-34S-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)
421270 Nick Kerba 106328 5			
54218/78202 S. Eagle 1 106299 5			
52947/75819 J. Lopez 2 198594 5			

HES UNIT NUMBERS	RT MILES	HES UNIT NUMBERS	RT MILES	HES UNIT NUMBERS	RT MILES	HES UNIT NUMBERS	RT MILES
421270	240						
54218/78202	240						
52947/75819	300						

Form Name _____ Type: _____
 Form Thickness _____ From _____ To _____
 Packer Type _____ Set At _____
 Bottom Hole Temp. _____ Pressure _____
 Misc. Date _____ Total Depth _____

DATE	CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
	6-1-00	6-2-00	6-2-00	6-2-00
TIME	2130	0245	0600	0645

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY	MAKE
Float Collar LD Baffle	1	H
Float Shoe		
Guide Shoe Reg	1	OW
Centralizers S24	4	
Bottom Plug		
Top Plug LD 3w	1	
Head Basket	1	
Packer		
Other		

WELL DATA

	NEW/USED	WEIGHT	SIZE	FROM	TO	MAX ALLOW
Casing	N	10.5	4 1/2	0	5463	
Liner						
Liner						
Tbg/D.P.						
Tbg/D.P.						
Open Hole						SHOTS/FT.
Perforations						
Perforations						
Perforations						

MATERIALS

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

HOURS ON LOCATION		OPERATING HOURS		DESCRIPTION OF JOB
DATE	HOURS	DATE	HOURS	
6-2-00	5 hrs	6-2-00	1 hr	035
TOTAL	5 hrs	TOTAL	1 hr	

HYDRAULIC HORSEPOWER
 Avail. _____ Used _____
AVERAGE RATES IN BPM
 Disp. _____ Overall _____
CEMENT LEFT IN PIPE
 Reason: shift

CEMENT DATA

STAGE	SACKS	CEMENT	BULK/SKS	ADDITIVES	YIELD	LBS/GAL
	125	Prem	B.	5% Colocal, 10% Salt, 25% Hotald-322, 5% Gilscoite	1.29	15.6

Circulating Breakdown	Displacement Maximum	Pretlush: Gal - BBI 12	Type Mudflush
Average	Frac Gradient	Load & Bkdn: Gal - BBI	Pac: BBI - Gal
Shut in: Instant	5 Min 15 Min	Treatment Gal - BBI	Disp: BBI - Gal 86
		Cement Slurr Gal - BB 29	
		Total Volume Gal - BB	

Frac Ring #1 _____ Frac Ring #2 _____ Frac Ring #3 _____ Frac Ring #4 _____

THE INFORMATION STATED HEREIN IS CORRECT

CUSTOMER'S REPRESENTATIVE SIGNATURE: *Mark Pennick*

TICKET #	660942	TICKET DATE	6-2-00
BDA / STATE	KS	COUNTY	Comanche
PSL DEPARTMENT	21	ORIGINAL	
CUSTOMER REP / PHONE	Mark Pennick		
API / UWI #			
JOB PURPOSE CODE	035		

REGION	North America	NWA/COUNTRY	Mid Cont USA
MBU ID / EMP #	MCL10110 106328	EMPLOYEE NAME	Nick Korbe
LOCATION	Liberal	COMPANY	Crawford Oil & Gas
TICKET AMOUNT	4669117	WELL TYPE	01
WELL LOCATION	3 Ent Butter milk	DEPARTMENT	Cement
LEASE / WELL #	Blount 0400002	SEC / TWP / RNG	3-345-18W

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
N. Korbe 106328	5						
S. Engel 106000	5						
J. Lopez 198514	5						

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL)(GAL)	PUMPS		PRESS. (psi)		JOB DESCRIPTION / REMARKS
				T	C	Tbg	Csg	
	2130							called out
	0245							on loc held safety, etc set up trhs
	1520							circulating csg
	0600	2	3/2					Blank circ Plug KA & MH
	0607					2500		Test Lines
	0609	4.5	0			250		st. Mud flush
	0612	6	12/0			275		st. Cement
	0618		29					and cement
	0619							wash pump & line
	0622							relieving
	0624	6	0			75		st. Mud
	0635	6	65			150		catchment
	0637	2.5	76			500		slow rate
	0641	2.5	86			625/100		Break plug rod holes float hold
	0652							

Job complete
Thank you
Nick & crew