KANSAS CORPORATION COMMISSION ORIGINAL September 1999 OIL & GAS CONSERVATION DIVISION ORIGINAL September 1999 Must Be Typed

WELL COMPLETION FORM

WELL HISTORY - DESCRIPTION OF WELL & LEASE

Operator: License # 32429 CONFIDENTIAL	MAY 2.5 2000
• •	API No. 15 - 033-21068-0000
Name: CRAWFORD OIL & GAS, INC. Address: P. O. Box 51	County: Comanche
City/State/Zip: Coldwater, Kansas 67029	500S NW NW NW Sec. 8 Twp. 34 S. R. 18 East X West
Purchaser: FOTT & ANR	380 feet from S / (N)(circle one) Line of Section
Operator Contact Person: MARIS PINNICK	feet from E / (W) (circle one) Line of Section
Phone: (316) 582-2612	Footages Calculated from Nearest Outside Section Corner:
DUKE DRILLING CO. INC.	Circle one) NE SE NW SW HOFFMAN TRUST Well #: 1
Contractor: Ivanie	
License: 5929 SEE VISION SEE VISI	Field Name: NORTH EAST BUTTERMILK
	Mississippian 1993
= 10.0	Figuration: Ground: 1892' Kelly Bushing: 1905'
	Total Depth: 6315' Plug Back Total Depth: 6146
Oil SWD XXX SIOWTemp. Abd	Amount of Surface Pipe Set and Cemented at 670 Feet
Gas ENHR SIGW	Multiple Stage Cementing Collar Used?
Dry Other (Core, WSW, Expl., Cathodic, etc.)	If yes, show depth setFeet
If Workover/Re-entry: Old Well Info as follows:	If Alternate II completion, cement circulated from
Operator.	feet depth tow/sx cmt.
Well Name:CONFIDENTIA	Drilling Fluid Management Plan ALT 1 974 7-17-00
Original Comp. Date: Original Total Depth:	(Data must be collected from the Reserve Pit)
Deepening Re-perf Conv. to Enhr./SWD	Chloride content 10,200 ppm Fluid volume 600 bbls
Plug Back Plug Back Total Depth	Dewatering method used haul off
Commingled Docket No. PELEAS	Location of fluid disposal if hauled offsite:
Dual Completion Docket No.	200perator Name: GORDON KEANE
Other (SWD or Enhr.?) Docket No. MAY 29	Lease Name: HARMON License No.: 5993
02-17-00 03-02-00 5-1996M CONF	Lease Name License No.:
Spud Date or Date Reached TD Completion Date or Recompletion Date	County: Comanche Docket No.: 22,304
	County: Obligation Docker No.: 22,334
	the state of the s
	er or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. 2 months if requested in writing and submitted with the form (see rule 82-3-and geologist well report shall be attached with this form. ALL CEMENTING
	te the oil and gas industry have been fully complied with and the statements
herein are complete and correct to the best of my knowledge.	3.63
Signature: mark Primile	KCC Office Use ONLY
Title: SUPT. OF OPERATIONS Date: 5-25-00	Letter of Confidentiality Attached
Subscribed and sworn to before me this 35 day of May 2	OOD 10 Denied, Yes Date:
18000	Y PUBLIC - State of Kansas Wireline Log Received PAMELA PRICE Geologist Report Received
Notary Public: Samuela Theep	
Date Commission Expires: Feb. 39, 2004	y Appt. Exp. 2-89-04 UIC Distribution

Operator Name:	CRAWFORD OIL	SGAS, I	NC.		Name:	HOFFMAN	TRUST	_ Well #:	1		
Operator Hame.	14 S. R18		X West	County		Comanc		_ vveii #:			
INSTRUCTIONS: S tested, time tool ope temperature, fluid re	how important tops a	and base of for and shut-in s if gas to su	ormations pe pressures, trace test, a	enetrated. whether sh long with f	Detail a out-in pre	Il corest Repor	all final copies o static level, hydro	static pressur	ests giving interval es, bottom hole ed. Attach copy of all		
Drill Stem Tests Take		X Yes	□No			•	ion (Top), Depth a	and Datum	Sample		
Samples Sent to Ge	ological Survey	X Yes	□No		Nam LL	ICH RES	DUAL IND	Top (70)	Datum		
Cores Taken		Yes Yes	X No				TED NEUTR		•		
Electric Log Run (Submit Copy)	سه يه د	∑ Yes	□ No				BOND LOG		ŧ		
List All E. Logs Rung	1	. ***			1	iner .	DOWN 200	4240	- 233 2		
FORT CHERO	SCOTT KEE LIME (SSIPPI	5179 5196 5276	-32 -32 -33	91 71	LANS	LAS SAND ING KC		4344 4394 4528 5010	-2439 -2489 -2623 -3105 X		
VIOLA	1	6033	-41		NOVI	NGER SAND		5050 5092	-3145 ·		
		Report al				ermediate, produc	NOW WEE	5145	-3187 -3240		
Purpose of String	Size Hole Drilled	Size C Set (In		Weig Lbs./		Setting Depth	Type of Cement	# Sacjs Used	Type and Percent Additives		
Conductor		20"				_63'	10Sk Grout	7½yds.			
Surface	12-1/4"	8-5/8"		24#		670	250 100	Lite Class A	3%cc, Flocele 2%gel,3%cc		
Production	7-7/8"	5-	1/2"	15.5#		6200'	A-Con	160	2%ce,5#Gil		
		Α	DDITIONAL	CEMENTIN	IG / SQL	JEEZE RECORD) .		2/000, 3/1 011		
Purpose: Perforate	Depth Top Bottom	Type of (#Sacks	Used'	្ឋអន	Type and Po	ercent Additives				
Protect Casing Plug Back TD Plug Off Zone			:	<u> </u>	<u> </u>	Y					
L			<u>_</u>	A. (3.7.)	1 1 2 1	ोट लिएमरे					
Shots Per Foot	PERFORATION Specify F	ON RECORD -	Bridge Plugs Interval Perfo	Set/Type prated		Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used) Depth					
6 SA/FT	60466050/609	90-6098	Vi	 ola		150 sk s	T COS PAND 100090	Ann Har	BKI HSO		
4 s#/fr	5262-5278			125,			T. CO2		Bai Hio		
				<u>p== 1 </u>		100 SK SF	OBI IIIO				
			· · · · · · · · · · · · · · · · · · ·			4 					
TUBING RECORD	Size	Set At 5226 F	т	Packer At	!	Liner Run	Yes No		:		
Date of First, Resumero	1 Production, SWD or En		oducing Metho	od				:, -	•		
WOPL Estimated Production Per 24 Hours	Oil B	bls.	_	lcf	Flowing	r Bt		Othe	r (Explain) Gravity		
Disposition of Gas	ACC BI		(Property of the Party of the P	me sugu	O. WOTARV P	Production Interv					
☐ Vented ☑ Sold	Used on Lease	`		PAMELA P	1 .e.		val Commingled	5262 6046'-	5278		
(If vented, Su	mit ACO-18.)		Other (Specify)		ORTH PRESIDENCESSIVE			6090'-	6098'		

ALLIED CEMENTING CO., INC.

1031

REMIT TO P.O. BONFIDENTIAL RUSSELL, KANSAS 67665

SERVICE POINT:

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1116	ر) -	٠,	CLACKE	1 100

DATEO 2-17-00 SEC. TWP. RANGE	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
			COUNTY	STATE
LEASE WELL# LOCATION BUTTE	30011K 1148	· 75	Company	KS
OLD OR NEW (Circle one)]	
CONTRACTOR DUKE Dr. Co.	OWNER Cr	Awford	MAY 2	5 2000
TYPE OF JOB SUPFACE CSG.			CONFIDE	NITIAI
HOLE SIZE 13/4 T.D. 672	CEMENT			
CASING SIZE X-5/8X 24 DEPTH 670		DERED <u>3.505</u>		
TUBING SIZE DEPTH	the state of the s	Al. ICOSX.	CLASSA-	+ 35/LCC
DRILL PIPE DEPTH TOOL DEPTH	2% Gel.			
TOOL DEPTH PRES. MAX 300 MINIMUM 150	COMMON		@	
MEAS. LINE SHOE JOINT 44 93	POZMIX		_	
CEMENT LEFT IN CSG.	GEL			
PERFS.	CHLORIDE		@	
DISPLACEMENT 40/2 BNS Fresh Hau			@	
EQUIPMENT			@	, <u> </u>
	· · · · · · · · · · · · · · · · · · ·		_@	
PUMPTRUCK CEMENTER LATTU Dreiling		1.5 × 1.5 ×	_ @	
# 343 HELPER JUSTIN HART	HANDLING		_@	
BULK TRUCK	HANDLING		_ @	
#240 DRIVER DAVID West	MILEAGELEA	SED	1	
BULK TRUCK	MAY O.C	onne	TOTAL	
# DRIVER	MAY 29	/ 2001	TOTAL	
	FROM CONI	TITYLAL (VI		
REMARKS:	FROM CON	SERVICE SERVICE	CE	
Pine on Bottom Break Circ.			سمديره والم	
mixt Pump 2505x ALW+ 3960C	DEPTH OF JOE			
1/1 Flo-Seal 100 SX Class A + 3%CC	PUMP TRUCK			
28 Gel Release Trop Humpt Dignace		GE	_ @	
W/40/A Bus Fresh Ho. Bomp Plug	MILEAGE		_ @	
MoshoH In. Coment Did Circ.	PLUG Robbe	1		
			_	
			TOTAL	
CHARGE TO: DUKE Drly Co			IOIAL	
CHARGE TO: 300KE 10111 CD				
STREET		FLOAT EQUI	PMENT	
CITYSTATEZIP				
	1-BAHLE	<u> </u>	@	
		Mizer	_ @	.
	2-BASK		_ @	
			_ @	
To Allied Cementing Co., Inc.			_@	
You are hereby requested to rent cementing equipment				
and furnish cementer and helper to assist owner or			TOTAL	
contractor to do work as is listed. The above work was				
done to satisfaction and supervision of owner agent or	TAX			
contractor. I have read & understand the "TERMS AND	TOTAL CHARG	#		with the
CONDITIONS" listed on the reverse side.	4.			
	DISCOUNT —		IF PAI	D IN 30 DAYS
1/1/1/20			18 11 1	
SIGNATURE X Kennock /// Sluce	* KEN	NETH M	GUIRE	
		PRINTI	D NAME	

GENERAL TERMS AND CONDITIONS

DEFINITIONS: In these terms and conditions, "Allied" shall mean Allied Cementing Co., Inc., and "Customer" shall refer to the party identified by that term on the front of this contract. As applicable, "Job" relates to the services described on the front side of this contract, "merchandise" refers to the material described on the front of this contract and to any other materials, products, or supplies used, sold, or furnished under the requirements of this contract.

—TERMS: Unless satisfactory credit has been established, "CUSTOMER" must tender full cash payment to "ALLIED" before the job is undertaken or merchandise is delivered. If satisfactory credit has been established, the terms of payment for the job and/or merchandise, including bulk cement, are net cash, payable in 30 days from the completion of the job and/or delivery of the merchandise. For all past due invoices, "CUSTOMER" agrees to pay interest on amounts invoiced at a rate of 18 percent per annum until paid. Notwithstanding the foregoing, in no event shall this Contract provide for interest exceeding the maximum rate of interest that "CUSTOMER" may agree to pay under applicable law. If any such interest should be provided for, it shall be and hereby is deemed to be a mistake, and this contract shall be automatically reformed to lower the rate of interest to the maximum legal contract rate, any amounts previously paid as excess interest shall be deducted from the amounts owing from the "CUSTOMER" or at the option of "ALLIED," refunded directly to "CUSTOMER." For purposes of this paragraph, ALLIED and CUSTOMER agree that KANSAS law shall apply. Any discounts granted with this contract are null and void if the charges are not paid when due.

—ATTORNEY FEES: In any legal action or proceeding between the parties to enforce any of the terms of this Service Contract, or in any way pertaining to the terms of this Contract, the prevailing party shall be entitled to recover all expenses, including, but not limited to, a reasonable sum as and for attorney's fees.

—PRICES AND TAXES: All merchandise listed in "ALLIED'S" current price schedule are F.O.B. ALLIED'S local station and are subject to change without notice. All prices are exclusive of any federal, state, local, or special taxes for the sale or use of the merchandise or services listed. The amount of taxes required to be paid by ALLIED shall be added to the quoted prices charged to CUSTOMER.

—TOWING CHARGES: ALLIED will make a reasonable attempt to get to and from each job site using its own equipment. Should ALLIED be unable to do so because of poor or inadequate road conditions, and should it become necessary to employ a tractor or other pulling equipment to get to or from the job site, the tractor or pulling equipment will be supplied by CUSTOMER or, if furnished by ALLIED, will be charged to and paid by CUSTOMER.

—PREPARATION CHARGES: If a job and/or merchandise is ordered and CUSTOMER cancels the order after preparation of a chemical solution or other material, CUSTOMER will pay ALLIED for the expenses incurred by ALLIED as a result of the cancellation.

—DEADHAUL, CHARGES: Unless otherwise specified on the front of this Contract, a deadhaul charge as set forth in ALLIED'S current price book will be charged each way for each service unit which is ordered by CUSTOMER but not used.

—SERVICE CONDITIONS AND LIABILITIES: 1. ALLIED carries public liability and property damage insurance, but since there are so many uncertain and unknown conditions beyond ALLIED'S control, ALLIED shall not be liable for injuries to property or persons or for loss or damage arising from the performance of the job or delivery of the merchandise. Customer shall be responsible for and indemnify, defend, and hold harmless ALLIED, its officers, agents and employees, from and against any and all claims or suits for:

- (A) Damage to property or for bodily injury, sickness, disease, or death, brought by any person, including CUSTOMER and/or the well owner; and:
- (B) Oil spills, pollution, surface or sub-surface damage, injury to the well, reservoir loss, or damage arising from a well blowout arising out of or in connection with ALLIED'S performance of the job or furnishing of merchandise in accordance with this contract, unless such loss or damage is caused by the willful misconduct or gross negligence of ALLIED or its employees.
- 2. With respect to any of ALLIED'S tools, equipment, or instruments which are lost in the well or damaged when performing or attempting to perform the job or, in the case of marine operations, are lost or damaged at any time after delivery to the landing for CUSTOMER and before return to ALLIED at the landing, CUSTOMER shall either recover the lost item without cost to ALLIED or reimburse ALLIED the current replacement cost of the item unless the loss or damage results from the sole negligence of ALLIED or its employees.
- 3. ALLIED does not assume any liability or responsibility for damages or conditions resulting from chemical action in cements caused by contamination of water or other fluids.

WARRANTIES: 1. ALLIED warrants all merchandise manufactured or furnished by it to be free from defects in material and workmanship under normal use and service when installed, and used, and/or serviced in the manner provided and intended. ALLIED'S obligation under this warranty is expressly limited to repair, replacement, or allowance for credit, at its option, for any merchandise which is determined by ALLIED to be defective. THIS IS THE SOLE WARRANTY OF ALLIED AND NO OTHER WARRANTY IS APPLICABLE, EITHER EXPRESS OR OTHERWISE IMPLIED, IN FACT OR IN LAW, INCLUDING ANY WARRANTY AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE, CUSTOMER'S sole and only remedy with regard to any defective merchandise shall be the repair or replacement thereof or allowance for credit as herein provided, and ALLIED shall not be liable for any consequential, special, incidental, or punitive damages resulting from or caused by defective materials, products or supplies.

2. More specifically:

- (A) Nothing in this contract shall be construed as a warranty by ALLIED of the success or the effectiveness of the result of any work done or merchandise used, sold, or furnished under this contract.
- (B) Nothing in this contract shall be construed as a warranty of the accuracy or correctness of any facts, information, or data furnished by ALLIED or any interpretation of tests, meter readings, chart information, analysis of research, or recommendations made by ALLIED, unless the inaccuracy or incorrectness is caused by the wilful misconduct or gross negligence of ALLIED or its employees in the preparation or furnishing of such facts, information or data.
- (C) Work done by ALLIED shall be under the direct supervision and control of the CUSTOMER or his agent and ALLIED will accomplish the job as an independent contractor and not as an employee or agent of the CUSTOMER.



CONFIDENTIAL CEMENTING LOOPRIGINAL KCC

Date 17	7/36	nach I	don -	10.3		EMENT DATA: DROPE TYPE: 5 BIS/FIESD HE MAY 25 2000
. (\)	TOC Distric	HOOD	COLVE TIO	cket No. <u>103</u>		pacel Type.
Company	C / C I MU	7010		ell No.	A	mtSks Yieldft³/sk Density
County Lon	Anche			ate 5		Contract to the state of the st
	termilk	: 1/2E-				EAD: Pump Time hrs. Type ALLO 8%CC+1/4 + Flo-SeA Excess
CASING DATA:	PT/	A □ Squ	ieeze 🗆		•	mt. 25% Sks Yield 1. 9% ft³/sk Density /2.5 PPG
Surface 🗹	Intermediat	•	ction 🗆	L		AIL: Pump Timehrs. Type CLASSA
Size 85/X	Туре		ght <u> </u>	Collar		3%CC+2966el Excess
			-			mt. 160 Sks Yield 1. 34 ft³/sk Density 15.2 PPG
				****	`````````````\	/ATER: Lead: 17.7.9 gals/sk Tail 2.5 gals/sk Total Bbls.
				الا حد	/ (<u>*</u> 	
Casing Depths: To	op		Bottom		(K. 70*	umptrucks Used 343 Tustin
-332	• • • • • • • • • • • • • • • • • • •	4240		- 36. 7	Haras He	ulk Equip. 1 240 JAUID
	4	4344			attho sai -	A STATE OF THE STA
- 66/20	*	4394	10 10.	ાં વધ્યમું કર્	DOUGLAS	- 1100c 110°
Drill Pipe: Size 22 Open Hole Size ⊊	12/4		16.60x 72 4t. F	and the second	A Series and the series	oat Equip Manufacturer 21.00
CAPACITY ACTO		**************************************	_ /_∞ π. F			oat Equip wantacturer 212 ESO Depth 2014
	uns: Bbls/Lin. ft. <u>+ (</u>		Tinaseth/R	bit va SX 78	El Sinor	oat: Type A A + 1 = A A + = Depth
Open Holes: 428		14341	Lin ft B	MY 859	9 1 16	entralizers Quantity Plugs Top Btm
Drill Pipe:	Bbls/Lin. ft	i.	Lin. ft./B	4 2		tage Collars
Annulus:	,, Bbls/Lin. ft. <u></u>	0735	Lin. ft./B		£ 4	April Equip BASLet - 2
	Bbls/Lin. ft	···	Lin. ft./B	32	<u>`.</u> `}	isp. Fluid Type Fresh Ho Amt. 40/2 Bbls. Weight 8.54 PPG
Perforations: F	rom	ft. to	· ·	ft. Amt.	M	lud Type 17 Atice ALT 1 12 Weight 912 PPG
	1	ý.	· · · · · · · · · · · · · · · · · · ·	<u> </u>	47.	
COMPANY REPR	ESENTATIVE 🛨	ien m	Guir	<u>ن است</u>	10 (CEMENTER LARRY Dreiling
				7	, V	
TIME	PRESSU	RES PSI		ID PUMPED I		REMARKS
AM/PM)	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min.	10
7'00	150		٠ ١ <u>٠</u>	;		The or rittonic treaking.
7.25	150		44	-	6	mix+ ilmp 2505x. ALW+39CC
						MI FIL-Seal.
	1.50		24		<u>5</u>	ICUSX CLASSA + 37CCC+ 29CGel
					1111	Releasefly
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8:00	300		401/2		_ਤੌ	Short In.
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FINAL DISP. PRES	SS:	PSI	BUMP PLU	G TO		PSI BLEEDBACKBBLS. THANK YOU

TREATMENT REPORT 92038

ACID					Gustomer ID Date ORIGINAL Gustomer Description Co. 2000 3 - 3 - 3 - 0 CO												
						Legge	le Francisco				Less	No.		Well #	<i>f</i>	-	
Field Order	79	Station	14/10	165			Cesing	- Para	Depth	<u> </u>	Coun	N James Mary	as we in	L	State S	₩	
Type Job			•	water	10.30	57. L		For	nation			C. Gardin	Legal Descr	iption	145-184	me	
51	DE DAT		1	ERFORAT			1	FLUID	ISEN		-	TC				•	
Casing Size	n	ibing Size	5hots/				Acid	LOW				RATE		REATMENT RESUME		_	
Depth Depth	De	epith	 				Pre Pad							5 Min.		-	
Volume	Vo	From To Volume		To	······································	Ped r	3516	ELEASE									
Max Press	NA.	ox Press	From		To		Frec	4Err	, property of		Min			10 Min.			
Well Connec	1	nulus Vol.	From		To			MAY 2 9 2001			Avg			15 Min.			
			From		To	,] '				HHP Used			Annulu	e Pressure		
Plug Dopth		clor Depth	From	From To			Flush	v CO	ONFIDEN		Ses Volume			Total L	Total Load		
Customer Ra	presentati	HILL	Par	WICK	5	tation Mana	Defile				Tree	eler Age	wird	620	Wet gr)	
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