KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

ORIGINA Form Must Be Typed

WELL COMPLETION FORM

WELL HISTORY - DESCRIPTION OF WELL & LEASE

Operator: License # 32429	API No. 15 - 033-21048 0000
Name: CRAWFORD OIL & GAS, INC.	County: Comanche
Address: P. O. Box 51	C _ SW_ SW Sec29 Twp33 S: R.19' East X West
City/State/Zip: Coldwater, Kansas 67029-0051	feet from S / N (circle one) Line of Section
Purchaser: Post Rock	feet from E (W) (circle one) Line of Section
	Footages Calculated from Nearest Outside Section Corner:
Phone: (316) 582-2612	D -
Contractor: Name: DUKE DRILLING CO., INC.	Christopher Well #: 1
Phone: (316) 582-2612 Contractor: Name: DUKE DRILLING CO., INC. 592 License: 5929	A Book Name:
	- 1771
Wellsite Geologist: Jon D. Christensen	Bevation: Ground: 1887 Kelly Bushing: 1895
X New Well Re-Entry Workover	getal Depth: 6180' Plug Back Total Depth: 5350'
Oil SWD SIOWTemp. Abd.	Amount of Surface Pipe Set and Cemented at 728 Feet
X Gas ENHR SIGW	Multiple Stage Cementing Collar Used? ∑Yes ∑No
Dry Other (Core, WSW, Expl., Cathodic, etc)	If yes, show depth set Feet
If Workover/Re-entry: Old Well Info as follows:	If Alternate II completion, cement circulated from 5350 ^F
Operator:	feet depth to 4370 w/ sx cmt.
Well Name:	7/1/ 0 2 2 2 10
Original Comp. Date: Original Total Depth:	Drilling Fluid Management Plan 4/1./ 7-3-00 U.((Data must be collected from the Reserve Pit)
Deepening Re-perf Conv. to Enhr./SWD	Chloride content 33,000 ppm Fluid volume 600 bbls
Plug Back Plug Back Total Depth	Dewatering method used haul off
Commingled Docket No	•
Dual Completion Docket No	Location of fluid disposal if hauled offsite:
Other (SWD or Enhr.?) Docket No.	Operator Name: GORDON KEANE
01-24-00 02-08-00 5-19-00	Lease Name: HARMON' License No.: 5993
Spud Date or Date Reached TD Completion Date or	Quarter NW Sec. 11 Twp. 33 S. R. 20 East X West
Recompletion Date Recompletion Date	County: Comanche Docket No.: 22304
<u> </u>	
INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas 67202, within 120 days of the spud date, recompletion, workover Information of side two of this form will be held confidential for a period of 12 107 for confidentiality in excess of 12 months). One copy of all wireline logs at TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells.	or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. months if requested in writing and submitted with the form (see rule 82-3- nd geologist well report shall be attached with this form. ALL CEMENTING
All requirements of the statutes, rules and regulations promulgated to regulate herein are complete and correct to the best of my knowledge.	the oil and gas industry have been fully complied with and the statements
Signature: Mark Princip	KCC Office Use ONLY
Title: SUPT. OF OPERATIONS Date: 5-23-00	Letter of Confidentiality Attached
Subscribed and sworn to before me this	If Denied, Yes Date:
A HOTARY PUBLIC -	
PAMEL My Appt. Exp.	A PRICE Geologist Report Received
Notary Public: Xunus Grue	UIC Distribution
Date Commission Expires: 3-29-00	L / KCC

Operator Name:	CRAWFORD OIL	& GAS, INC.	Lease Name:	CHRIST	OPHER	_ Well #:	1	
Sec. 29 Twp. 33	s. R. <u>19</u>	☐ East X West	County: Con	nanche				
tested, time tool open temperature, fluid reco	and closed, flowing very, and flow rate:	and base of formations por and shut-in pressures, s if gas to surface test, a inal geological well site r	whether shut-in pro long with final chai	essure reached	I static level, hydros	static pressu	ures, bottom hole	
Drill Stem Tests Taken (Attach Additional S	heets)	∑Yes □ No		og Forma	tion (Top), Depth ar	nd Datum	Sample	f
Samples Sent to Geolo	ogical Survey	X Yes No	Nam	е		Тор	Datum	
Cores Taken Electric Log Run (Submit Copy)		☐ Yes	s 🔲 No		See attached.			
omp. Porosin	by, Mic	duction, Dira		w Used				
		Report all strings set-c	_		ction, etc.	<u> </u>	<u>.</u>	
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacjs Used	Type and Perd Additives	ent
Conductor		20"		40'	1-SK Grout			
Surface	12-1/4"	8-5/8"	24#	728'	' Lite		2%gel, 3%d	cc
Production	7-7/8"	4-1/2"	10/5#	5481'	Class A	95	2%cc, 5#gi 1/4#Flo,1/	11. /4#]
		ADDITIONAL	CEMENTING / SQL	JEEZE RECOR	D		_	Los
Purpose:	Depth Top Bottom	Type of Cement #Sacks Used		Type and Percent Additives				
Protect Casing Plug Back TD Plug Off Zone	5350/5398	Common	50	10%	SALT			
Shots Per Foot		ON RECORD - Bridge Plug footage of Each Interval Perf			acture, Shot, Cement S mount and Kind of Mate		ord Dep	oth
4sH/FC 5	232-52%/ <i>52</i>	72-5274/5284-52	386/5288-5290	- 1000 gal. acid, 150sx Sams				
· •		, , , , , , , , , , , , , , , , , , ,	/ /	400 Bb/s Hao 70 Tau CO2				
TUBING RECORD	Size	Set At	Packer At	Liner Run				
	23/8"	5194	NO		Yes No			
Date of First, Resumerd F	roduction, SWD or E	nhr. Producing Meth	od Signatur	ı 🗌 Pump	ing Gas Lift		ner <i>(Explain)</i>	
Estimated Production Per 24 Hours	Oil E	240	Mof Wate	r E		as-Oil Ratio	Gravi	ty
Disposition of Gas	METHOD OF C	OMPLETION 253	PUBLIC - SIZE OF KE PAMELA PRICE	Production inte	rval			•
☐ Vented ☒️ Sold (If vented, Sum	Used on Lease	Open Hole	Perf. CX3 IT /D	dálly Comp.	Commingled			

JON D. CHRISTENSEN Consulting Geologist 100 S. Main, Suite 200 Wichita, KS 67202

GEOLOGIC REPORT LOG

API#15-033-21048-000							
COMPANY CRAWFOR		RILS	באא_				
OIL GAS ENERG	CC		2				
WELL #1 CHRISTOPHE		CONS	29.	3			
FIELD COLLIER FLATS	5	MAY 2 CONSESVATIO	品の				
LOCATION C SWSW			MISS MAR	M.L/KC			
SEC. 29 TWP. 335 RGE	Ś	EN CUENTINE	KB L	395/			
	. <u>19w</u>	NISSIO	DF				
COUNTY COMANCHE	· 	Drilling Mecaures!	1/10	387'			
STATE KANSAS		Samples Saved From	3500/10:	6180			
OPERATOR GRAWFORD OIL & G	'NE		_ <u>3500</u> fo: _				
CONTRACTOR DILKE DRUG.CO.		Gaological Supervi:	rion From 3570	To Total Depth			
CONM: 1/24/2000 COMP: 2/E	3/2000		JON CHRIS LOG TE				
CASING RECORD	L. 11		DC/CNL				
11 5 UKN :	₹ 5 ″			- (
TOTAL DEPTH DRILLERS 3005x. 61		MICRO					
TOTAL DEPTH DRILLERS COSK. 61 TOTAL DEPTH LOG 6184	80'	MICROI	_06				
TOTAL DEPTH DRILLERS 61 TOTAL DEPTH LOG 6184 FORMATION TOPS	AND STR	MICROI UCTURAL PO	SITION				
TOTAL DEPTH DRILLERS COSK. 6 I TOTAL DEPTH LOG 6 184 FORMATION TOPS FORMATION	80'	UCTURAL PO	SITION	STRUCTURAL POSITION			
TOTAL DEPTH DRILLERS 61 TOTAL DEPTH LOG 6184 FORMATION TOPS	AND STRI	UCTURAL PO	SITION G SUB-SEA	STRUCTURAL			
TOTAL DEPTH DRILLERS COSK. 6 I TOTAL DEPTH LOG 6 184 FORMATION TOPS FORMATION	AND STRI	UCTURAL PO	SITION G SUB-SEA DATUM	STRUCTURAL			
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FORMATION TOPS FORMATION	AND STRI SAMPLE TOP 4255 4455 44689 4812 4833 4938	MICROI UCTURAL PO ELECTRIC LO 10P 425 B 443 B 443 B 443 B 443 A 484 A 494 S 497 B	SITION SUB-SEA DATUM -2363 -2543 -2195 -2919 -2948 -3050	STRUCTURAL POSITION + 17' + 36' + 19' + 3' - 4' + 16' + 19'			
FORMATION TOPS FORMATION TOPS FORMATION F	AND STRI SAMPLE TOP 4-255 4-455 4-8-12 4-8-12 4-8-38 4-9-38 4-9-38 4-9-38 4-9-38	MICROI UCTURAL PO ELECTRIC LO 10P 4258 44438 44690 4814 4843 4945 4978	SITION G SUB-SEA DATUM -2363 -2543 -2795 -2948 -3050 -3083	STRUCTURAL POSITION +17' +36' +19' +4' +16' +19' +19' +19' +19'			
FORMATION TOPS FORMATION STARK SH. SWOPE BASE KANSAS CITY MARMATON NOVINGER ALTAMONT PAWNEE CHEROKEE SH.	AND STRI SAMPLE TOP 4-255 4-455 4-455 4-89 4-812 4-938 4-938 4-978 5026 5073	MICROI UCTURAL PO ELECTRIC LO TOP 4258 4438 4439 4814 4945 4978 5029 5074 5122	SITION SUB-SEA DATUM -2363 -2543 -2195 -2919 -2948 -3050 -3083 -3134 -3179 -3227	STRUCTURAL POSITION +17' +36' +19' +16' +19' +19' +19' +19'			
FORMATION TOPS FORMATION TOPS FORMATION F	AND STRI SAMPLE TOP 4-255 4-455 4-255 4-255 4-255 4-255 4-256 5026 5026 5026 5026 5026	MICROL UCTURAL PO ELECTRIC LO 10P 4258 44438 44945 4945 4978 5029 5074 5122	SITION G SUB-SEA DATUM -2363 -2543 -2195 -2919 -2948 -3050 -3083 -3134 -3179 -3227 -3335	STRUCTURAL POSITION +17' +36' +19' +16' +19' +19' +19' +19' +13' +29' +28'			
FORMATION TOPS FORMATION TOPS FORMATION STARK SH. SWOPE BASE KANSAS CITY MARMATON NOVINGER/ALTAMONT PAWNEE CHEROKEE SH. DETRITAL MISS.	AND STRI SAMPLE TOP 4-255 4-45	MICROI UCTURAL PO ELECTRIC LO TOP 4258 4438 44345 4843 4945 4945 5074 5122 5230 5693	SITION G SUB-SEA DATUM -2363 -2543 -2195 -2948 -3050 -3083 -3134 -3179 -3227 -3336 -3198	STRUCTURAL POSITION +17' +36' +19' +16' +19' +19' +19' +19' +13' +29' +28' NDE			
FORMATION TOPS FORMATION TOPS FORMATION F	AND STRI SAMPLE TOP 4-255 4-45	MICROL UCTURAL PO ELECTRIC LO 10P 4258 4438 44345 4814 4843 4945 5074 5079 5074 51230 5241 5693	SITION G SUB-SEA DATUM -2363 -2543 -2195 -2919 -2948 -3050 -3083 -3134 -3179 -3227 -33346 -3198 -4210	STRUCTURAL POSITION +17' +36' +19' +16' +19' +19' +19' +19' +19' +18' NAE NAE			
FORMATION TOPS FORMATION TOPS FORMATION STARK SH. SWOPE BASE KANSAS CITY MARMATON NOVINGER ALTAMONT PAWNEE CHEROKEE SH. DETRITAL MISS. MISSISSIPPI COWLEY VIOLA	AND STRI SAMPLE TOP 4255 4455 4689 4812 4938 4938 4938 5026 5	MICROL UCTURAL PO ELECTRIC LO 10P 4258 4438 44345 4814 4843 4945 5074 5079 5074 51230 5241 5693	SITION G SUB-SEA DATUM -2363 -2543 -2195 -2919 -2948 -3050 -3083 -3134 -3179 -3227 -33346 -3198 -4210	STRUCTURAL POSITION +17' +36' +19' +16' +19' +19' +19' +19' +19' +18' NAE NAE			

ALLIED CEMENTING CO., INC.
Federal Tax I.D.# 48-0727860

REMIT TO P.O. BOX 31

SERVICE POINT:

RUSS	ELL, KAI	NSAS 6766	5			Merkicing Lodge
DATE 1-25-CC	SEC.	TWP.	RANGE	CALLED OUT	ON LOCATION	JOB START JOB FINISH
LEASE IL Stephen		/		7174 on 160 *	Lit	COUNTY CTATE
OLD OR NEW (Ci			75			
CONTRACTOR	Duke	#4 /		OWNER	to teid	Bil + GAS Enviries
TYPE OF JOB 5				OWNER (_	* M. 1 7 11 . E F AC	1001 + 10943 2 10800 163
HOLE SIZE /2	71		730	CEMENT		•
CASING SIZE >	18 x2	Y DEF	TH 729	AMOUNT O		<u> </u>
TUBING SIZE		DEF	<u>TH</u>			cc + /y flo-seal
DRILL PIPE		DEF		<u> </u>	145 A+37	cc + 2/40L
TOOL		DEP				3
PRES. MAX 35	· <i>O</i>		IMUM — DE JOINT 44-8	COMMON_		@
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PERFS.	<u>C50.</u>	-		GEL _ CHLORIDE		
DISPLACEMENT	46	FRIS F	respurator			RECEIVED STATE CORPORATION COMMISSION
		JIPMENT				
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	CEMENT	ER (AR)	Mouna			@CONSERVATION DIVISION
	HELPER	=st-kir	IF WIHRT	- HANDLING		@ Wichita, Kanasa
BULK TRUCK		~ ·	(1	MILEAGE_		
	DRIVER	1150 Vi	dwast			
BULK TRUCK #	DRIVER					TOTAL
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To Allied Cemen	_					
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contractor-to do v					1	
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CONDITIONS"				TOTAL CHA	ARGE	
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		1 1		DISCOUNT		II IIII III VO DAII U
SIGNATURE	111/1		They	M. K	F- 6-	14-011
DIGITAL	<u> </u>		7-1		PRIN	TED 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.

ORIGINAL

CEMENTING	LOG
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Date_/25~0	Distric	ot <u>:), </u>	'd <u>c с т</u>	cket _i No. <u>// 7</u> ,		Spacer Type:			
Company :	1. 1.	016	<i>ا با ح</i> ال Ri	g . , r,	,		s Yield	ft³/sk Density	PPG
Lease Ali,	1. 1.0	, -		/eli No					
County	Griver	1	S	tate <u>//</u>					
Location		11. 100	<u> ご -</u> Fi	eld <u>24- : ir</u> -	<u> 1401 -</u>	LEAD; Pump Time		hrs. Type	-13%cc-
6.	Υ			i.		<u> 14 16 50</u>		Excess	
CASING DATA:	. PT	A □ Squ	ueeze □			Amt. 275	Sks Yield 1.57	ft³/sk Density /-	PPG
Surface	Intermediat	•				TAIL: Pump Time	Oil Hoid	hrs. Type1 :	<u></u>
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Casing Depths: T	op:t/3		_ Bottom <u> </u>	<u> </u>		Pump Trucks Used 🕹		There ilinio	
				•		Bulk Equip	11-251	12012	
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Drill Pipe: Size _	4 3	Weight	K (0	Collars			,		
Open Hole: Size .						Float Equip: Manufac	turer 🐣 🖰 🕹	011	
CAPACITY FACTO		,				Shoe: Type	;	Donth	
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Open Holes:	Bbls/Lin. ft		· -	bl			/ Plug	s Top <u>ft / / / / / B</u> tm	
Drill Pipe:	Bbls/Lin, ft		Lin. ft./B	ibl		Stage Collars	- /- 1/- Ke	-	
Annulus:	Bbls/Lin. ft	1.10 3	Lin. ft./B	bl. <u>/ - </u>		Special Equip.			
	Bbls/Lin. ft	4/77	Lin. ft./B	bl		Disp. Fluid Type <u>1.1.</u>	<u> </u>	Amt. 41 Bbls. Weight	PPG
Perforations:	rom	ft. to		ft. Amt: _		Mud Type		Weight	PPG
								A14.1	
COMPANY REPR	ESENTATIVE	11/1. Kr	(cdfi	<u>~.</u>		CEMENTER 2/2	111 / Tal	dias 11-3-	100 8.6
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