

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: 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. _____
4/22/00 5/4/00 5/18/00
Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

RECEIVED
STATE CORPORATION COMMISSION

AUG - 9 2000

API No. 15 - 033-21,073 500-00
County: Comanche
115' S & 30' E of
C-S/2-NW-SE Sec. 8 Twp. 34 S. R. 18 East West
1535 feet from S / N (circle one) Line of Section
1930 feet from E / W (circle one) Line of Section
Footages Calculated from Nearest Outside Section Corner:
(circle one) NE SE NW SW
Lease Name: TRITSCH Well #: 1
Field Name: Buttermilk East
Producing Formation: Mississippian
Elevation: Ground: 1886' Kelly Bushing: 1897'
Total Depth: 5500 Plug Back Total Depth: 5421'
Amount of Surface Pipe Set and Cemented at 624 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 of 4 12-13-00
(Data must be collected from the Reserve Pit)
Chloride content 24,000 ppm Fluid volume 500 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: 8-7-00
Subscribed and sworn to before me this 7th day of Aug
19 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: TRITSCH Well #: 1
 Sec. 8 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
 Cement Bond

Log Formation (Top), Depth and Datum Sample
 Name Top Datum

CASING RECORD <input checked="" 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"		52'			
Surface	12-1/4"	8-5/8"	24#	624'	Lite Class A	225 100	Floseal, cc gel, cc
Production	7-7/8"	4-1/2"	10.5#	5455'	Premium	125 125	Calseal, salt, Gilsonite

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	5320-24	1000 Gal. 15% Acid	
6 spf	5332-35	90 T CO ₂ 160 Sx Sand	

TUBING RECORD		Size	Set At	Packer At	Liner Run
		2 3/8	5281	NA	<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 Bbbs.	Gas Mcf	Water Bbbs.	Gas-Oil Ratio	Gravity
		500	30		

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

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

Production Interval 5320' - 5324'
5332' - 5335'



JOB SUMMARY

ORDER NO. 70006

TICKET #	601786	TICKET DATE	5-4-00
BDA / STATE	KS.	COUNTY	COMANCHE
PSL DEPARTMENT	ZI	ORIGINAL	
CUSTOMER REP / PHONE	Mark Pennick		
API / UWI #		JOB PURPOSE CODE	035

REGION	North America	NWA/COUNTRY	USA
MBU ID / EMP #	MCLE0103 106304	EMPLOYEE NAME	Tyce Davis
LOCATION	Liberal TX	COMPANY	Duke Drilling Co.
TICKET AMOUNT		WELL TYPE	01
WELL LOCATION	Land. S.E. Coldwater	DEPARTMENT	ZI
LEASE / WELL #	Trisch #1	SEC / TWP / RNG	8-34-12

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
T. Davis 106304							
S. F. ... 106049							
H. ... 106154							

HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES
54218-78202	120						
54029-75821	100						

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		H
Float Shoe		
Guide Shoe 4 1/2	1	O
Centralizers 54	5	
Bottom Plug		W
Top Plug L.D.	1	
Head P.K.	1	C
Packer		
Other Baffle L.D.	1	O

MATERIALS

Treat Fluid	Density	Lb/Gal
Disp. Fluid	Density	Lb/Gal
Prop. Type	Size	Lb.
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	Qty.
Perfpac Balls		Qty.
Other		
Other		
Other		
Other		

DATE	TIME	CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
5-4-00	0130	5-4-00	0530	5-4-00	1100
					1200

WELL DATA

NEW/USED	WEIGHT	SIZE	FROM	TO	MAX ALLOW
Casing	W	10.5	4 1/2	KB.	5477
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	
				CMT 4 1/2 L.S.
TOTAL		TOTAL		

HYDRAULIC HORSEPOWER
 ORDERED Avail. Used
AVERAGE RATES IN BPM
 TREATED Disp. Overall
CEMENT LEFT IN PIPE
 FEET 42 Reason S.J

CEMENT DATA

STAGE	SACKS	CEMENT	BULK/SKS	ADDITIVES	YIELD	LBS/GAL
1	125	PPM 100	15.	5% COISOL 10% SOLF. 75% H4146 322. 5% G.D.	1.29	15.6
1	125	PPM 60/40	B.	6% WCI PLUG 10% EMULSIF.	1.65	13.2

Circulating _____	Displacement _____	Preflush: Gal - BBI 12	Type _____
Breakdown _____	Maximum _____	Load & Bkdn: Gal - BBI	Pad: BBI - Gal
Average _____	Frac Gradient _____	Treatment Gal - BBI	Disp(BBI) Gal 86.5
Shut In: Instant _____	5 Min _____ 15 Min _____	Cement Slurr Gal - BBI 29	7 FOR H/OI 200000.
		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*



JOB LOG

ORDER NO. 70006

TICKET #

TICKET DATE

REGION North America	NWA/COUNTRY	BDA / STATE	COUNTY
MBU ID / EMP #	EMPLOYEE NAME	PSL DEPARTMENT	ORIGINAL
LOCATION	COMPANY	CUSTOMER REP / PHONE	
TICKET AMOUNT	WELL TYPE	API / UWI #	
WELL LOCATION	DEPARTMENT	JOB PURPOSE CODE	
LEASE / WELL #	SEC / TWP / RNG		

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

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL)(GAL)	PUMPS		PRESS. (psi)		JOB DESCRIPTION / REMARKS
				T	C	Tbg	Csg	
	0130							Called out for job.
	0530							on loc. K2 - Nipping down BOP.
	0620							Start 4 1/2" WJ 2 F.F.
	0730							brk circ.
								run in.
	0926							WJ on BOP hook up 4 1/2" WJ & run from-
	0932							brk circ. WJ
	0933							Give to pit.
	1105							thru circ hook from to pit.
	1109							test iron.
	1110	6.0	12		✓	100		Pump mud flush.
	1115	6.0	29		✓	450		Pump 125sv plom cont 19+ 15.6"
	1121	0	41		✓	0		Shut down drop plug & wash up.
	1124	6.0	86.5		✓	100		Pump disp
	1135	6.0	86.5		✓	270		68 bbls in lift cont
	1137	2.0	86.5		✓	240		75 bbls in 3rd run.
	1146	2.0	86.5		✓	55/110		Load plug.
	1147	0	86.5		✓	120		Repair float - HELD.
	1200							Job over
								Thanks for calling H.F.
								Free job & call

ALLIED CEMENTING CO., INC.

1449

ORIGINAL

PO BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:
Med Lodge, Ks

DATE 4-24-00	SEC 8	TWP 34s	RANGE 18w	CALLED OUT 1:00 P.M.	ON LOCATION 4:00 P.M.	JOB START 7:00 P.M.	JOB FINISH 8:15 P.M.
LEASE Trisch	WELL #	LOCATION Butter Milk 25-1E-1/2n			COUNTY Comanche	STATE Ks	
OLD OR NEW (Circle one)							

CONTRACTOR Duke Drilling Co.
 TYPE OF JOB Surface CSG
 HOLE SIZE 1 3/4 T.D. 630'
 CASING SIZE 8 5/8 x 24 DEPTH 624'
 TUBING SIZE DEPTH
 DRILL PIPE DEPTH
 TOOL DEPTH
 PRES. MAX 500 MINIMUM 150
 MEAS. LINE SHOE JOINT 42.70
 CEMENT LEFT IN CSG.
 PERFS.
 DISPLACEMENT Fresh H₂O w/ 37 Bbls

OWNER Crawford Oil & Gas
 CEMENT
 AMOUNT ORDERED 2255x Allot + 3% CC
1/4" Flo-Seal 1005x Class A + 3% CC
2% Gel
 COMMON A 100 @ 6.35 635.00
 POZMIX @
 GEL 2 @ 9.50 19.00
 CHLORIDE 11 @ 28.00 308.00
Flu 225 @ 6.00 1350.00
Flo Seal 56 @ 1.15 64.40

EQUIPMENT
 PUMP TRUCK CEMENTER Larry Dreding
 # 302 HELPER Mark B.
 BULK TRUCK
 # 214 DRIVER Mike R.
 BULK TRUCK
 # DRIVER

HANDLING 325 @ 1.05 341.25
 MILEAGE 325 x .50 .04 650.00
 TOTAL \$3367.65

REMARKS:

SERVICE

Pipe on Bottom - Break Circ.
 Pump 2255x Allot + 3% CC + 1/4" Flo-Seal
1005x Class A + 3% CC + 2% Gel
 Release Plug Displace Plug w/ 37 Bbls
 Fresh H₂O. Shut In Cement D.d
 Circ.

DEPTH OF JOB 624'
 PUMP TRUCK CHARGE 0.300 470.00
 EXTRA FOOTAGE 324' @ .43 139.32
 MILEAGE 50 @ 2.85 142.50
 PLUG TRP 85x @ 90.00 90.00

TOTAL \$841.82

CHARGE TO: Duke Drilling Co.
 STREET P.O. Box 823
 CITY Great Bend STATE Kansas ZIP 67530

FLOAT EQUIPMENT

1-Baffle Plate @ 45.00 45.00
 @
 @
 @
 @

TOTAL \$45.00

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 PIO
 TOTAL CHARGE \$4294.47
 DISCOUNT 850.90 IF PAID IN 30 DAYS
\$3403.57

SIGNATURE X [Signature]

X J. L. Livingston
 PRINTED NAME