

STATE CORPORATION COMMISSION OF KANSAS
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM
ACO-1 WELL HISTORY
DESCRIPTION OF WELL AND LEASE

ORIGINAL

API NO. 15- 163-23288 0000

County Rooks County, Kansas

SE - SE - SE - Sec. 2 Twp. 9S Rge. 17 XX ^E _V

400 Feet from S (circle one) Line of Section

400 Feet from E (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:
NE. (SE) NW or SW (circle one)

Lease Name Howat Well # 1

Field Name Westhusin

Producing Formation Kansas City

Elevation: Ground 2011 1/2 KB 2020

Total Depth 3525' PBD 3400'

Amount of Surface Pipe Set and Cemented at 212 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set 1302 Feet

If Alternate II completion, cement circulated from DV Tool 1302'

feet depth to surface w/ 340 sx cmt.

Drilling Fluid Management Plan AH.2 1-2-98 U.C.
(Data must be collected from the Reserve Pit)

Chloride content _____ ppm Fluid volume _____ bbls

Dewatering method used _____

Location of fluid disposal if hauled offsite _____

Operator Name _____

Lease Name _____ License No. _____

Quarter _____ Sec. _____ Twp. _____ Rng. _____ E/W

County _____ Docket No. _____

Operator: License # 8735

Name: S&M Oil

Address 2730 Thunderbird Drive

City/State/Zip Hays, Kansas 67601

Purchaser: Farmland Industries, Inc.

Operator Contact Person: Steve Crawford

Phone (913) 626-3658

Contractor: Name: Duke Drilling Co., Inc.

License: 5929

Wellsite Geologist: Steve Crawford

Designate Type of Completion

New Well Re-Entry Workover

Oil SWD SIOW Temp. Abd.

Gas ENHR SIGW

Dry Other (Core, WSV, Expl., Cathodic, etc)

If Workover/Re-Entry: old well info as follows:

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

Deepening Re-perf. Conv. to Inj/SWD

Plug Back PBD

Commingled Docket No. _____

Dual Completion Docket No. _____

Other (SWD or Inj?) Docket No. _____

10-11-96 10-15-96 10-16-96

Spud Date Date Reached TD Completion Date

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 200 Colorado Derby Building, 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 on 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 Steve Crawford

Title Owner Date 11-13-96

Subscribed and sworn to before me this 13 day of November 19 96.

Notary Public Roberta Angell

Date Commission Expires 10-24-2000

K.C.C. OFFICE USE ONLY		
F	<input type="checkbox"/>	Letter of Confidentiality Attached
C	<input checked="" type="checkbox"/>	Wireline Log Received
C	<input type="checkbox"/>	Geologist Report Received
Distribution		
<input checked="" type="checkbox"/>	KCC	<input type="checkbox"/> SWD/Rep <input type="checkbox"/> NGPA
<input type="checkbox"/>	KGS	<input type="checkbox"/> Plug <input type="checkbox"/> Other
(Specify)		

ROBERTA ANGELL
NOTARY PUBLIC
STATE OF KANSAS
My Appt. Exp. 10-24-2000

Operator Name S&M Oil

Lease Name Howat

Well # 1

County Rooks County, Kansas

ORIGINAL
Sec. 21 Twp. 9S Rge. 17

East
 West

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem 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 during test. Attach extra sheet if more space is needed. Attach copy of log.

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:

Log Formation (Top), Depth and Datum Sample

Name	Top	Datum
Anhydrite	1277	- 1314
Topeka	3895	- 3112
Heebner	3112	- 3114
Kansas City	3152	- 3396
Arbuckle	3441	- 3525

Gamma Ray Neutron
Cement Bond Log

CASING RECORD

New 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	# Sacks Used	Type and Percent Additives
Surface	12-1/4"	8-5/8"	23#	212'	60/40 Poz	135	6%gel 3%cc
Production	7-7/8"	5-1/2"	14#	3512'	ASC 60/40 Poz	340	6%gel

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				

PERFORATION RECORD - Bridge Plugs Set/Type

Acid, Fracture, Shot, Cement Squeeze Record

Shots Per Foot	Specify Footage of Each Interval Perforated	(Amount and Kind of Material Used)	Depth
1	3133, 3152 1/2, 3187, 3193, 3209,	9000 ACL	3133 - 3373
	3232, 3245, 3257, 3313, 3321,	Limited Entry, 1250 psi	
	3332, 3341, 3362, 3373		

TUBING RECORD

Size 2 7/8 Set At 3401.75 Packer At --- Liner Run Yes No

Date of First, Resumed Production, SWD or Inj. 10-31-96 Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours Oil 64 Bbls. Gas --- Mcf Water 200 Bbls. Gas-Oil Ratio 36.5 Gravity

Disposition of Gas:

METHOD OF COMPLETION

Production Interval

Vented Sold Used on Lease Open Hole Perf. Dually Comp. Commingled Other (Specify) 3133 - 3373
(If vented, submit ACO-18.)

ALLIED CEMENTING CO., INC. 7284

15-163-23288-00-00

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

ORIGINAL

SERVICE POINT: Russell

DATE <u>10-11-96</u>	SEC. <u>2</u>	TWP. <u>9S</u>	RANGE <u>19W</u>	CALLED OUT <u>2:30PM</u>	ON LOCATION <u>3:30PM</u>	JOB START <u>7:00AM</u>	JOB FINISH <u>7:15PM</u>
LEASE <u>HOWAT</u>	WELL # <u>1</u>	LOCATION <u>CODELL + Hwy 18 Jct</u>		COUNTY <u>ROCKS</u>	STATE <u>KANSAS</u>		

OLD OR ~~NEW~~ (Circle one)

CONTRACTOR Duke Drilling Rig # 1

TYPE OF JOB SURFACE

HOLE SIZE 12 1/4 T.D. 214'

CASING SIZE 8 5/8 23 # DEPTH 214'

TUBING SIZE USED DEPTH _____

DRILL PIPE DEPTH _____

TOOL DEPTH _____

PRES. MAX MINIMUM _____

MEAS. LINE SHOE JOINT _____

CEMENT LEFT IN CSG. 15' 12 3/4 / 882

PERFS. _____

OWNER _____

CEMENT

AMOUNT ORDERED 135 SK 40 2% Gel
320 CC

COMMON _____ @ _____

POZMIX _____ @ _____

GEL _____ @ _____

CHLORIDE _____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

HANDLING _____ @ _____

MILEAGE _____ @ _____

TOTAL _____

EQUIPMENT

PUMP TRUCK CEMENTER John

177 HELPER Paul

BULK TRUCK

282 DRIVER Wain

BULK TRUCK

DRIVER _____

REMARKS:

~~CEMENT~~

~~EXTRA FOOTAGE~~

Frank

SERVICE

DEPTH OF JOB _____

PUMP TRUCK CHARGE _____

EXTRA FOOTAGE _____ @ _____

MILEAGE _____ @ _____

PLUG 8 5/8 WOODEN _____ @ _____

_____ @ _____

_____ @ _____

TOTAL _____

RECEIVED
KANSAS COMP CO
NOV 25 11:29 AM '96

CHARGE TO: S & M Oil Co.

STREET _____

CITY _____ STATE _____ ZIP _____

FLOAT EQUIPMENT

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

TOTAL _____

(1277 - 1314 Drilling - 37')

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.

SIGNATURE Mike Godfrey

TAX _____

TOTAL CHARGE _____

DISCOUNT _____ IF PAID IN 30 DAYS

ALLIED CEMENTING CO., INC.

6824

15-1163-023288-00-02

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

ORIGINAL

SERVICE POINT:
Russell

DATE <u>10-15-96</u>	SEC. <u>2</u>	TWP. <u>9 S</u>	RANGE <u>17 W</u>	CALLED OUT <u>8:00 AM</u>	ON LOCATION <u>8:45 PM</u>	JOB START <u>1:45 AM</u>	JOB FINISH <u>2:15 AM</u>
LEASE <u>Howat</u>	WELL # <u>1</u>	LOCATION <u>Codell on 4w&M</u>			COUNTY <u>ROCKS</u>	STATE <u>KANSAS</u>	

OLD OR NEW (Circle one)

CONTRACTOR DUKE DRIG. RIG #1

TYPE OF JOB PRODUCTION STRING (D-V)

HOLE SIZE 7 7/8 T.D. 3525

CASING SIZE 5 1/2 DEPTH 3512'

~~PIPE~~ SIZE 8 3/8 SURFACE DEPTH 212'

DRILL PIPE DEPTH

TOOL ARROW 2-Stage Coil DEPTH 1302'

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. Disp. 3 1/4 BBL

PERFS.

OWNER _____

CEMENT

AMOUNT ORDERED 340 SK 69/40 62 GEL

COMMON _____ @ _____

POZMIX _____ @ _____

GEL _____ @ _____

CHLORIDE _____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

HANDLING _____ @ _____

MILEAGE _____ @ _____

EQUIPMENT

PUMP TRUCK CEMENTER Alton

177 HELPER Will

BULK TRUCK

291 DRIVER Barin

BULK TRUCK

_____ DRIVER _____

REMARKS:

(TOP STAGE)

Cement - DID - CIRCULATE ✓

Alton D. Hentzen Allied Cementer

Will Hodkey Duke Tool Pusher

Steve Crawford Operator

RECEIVED

KANSAS CORP. JONMI

NOV 25 P 1 29

RECD 11/25/96

SERVICE

DEPTH OF JOB _____

PUMP TRUCK CHARGE _____

EXTRA FOOTAGE _____ @ _____

MILEAGE _____ @ _____

PLUG _____ @ _____

_____ @ _____

TOTAL _____

CHARGE TO: S & M Oil Co.

STREET _____

CITY _____ STATE _____ ZIP _____

FLOAT EQUIPMENT

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

TOTAL _____

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SIGNATURE Steve Crawford

TAX _____

TOTAL CHARGE _____

DISCOUNT _____ IF PAID IN 30 DAYS

ALLIED CEMENTING CO., INC. 6823

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

ORIGINAL

SERVICE POINT:

Russell

15-163-23288-00-00

DATE 10-15-96	SEC. 2	TWP. 9	RANGE 17 W	CALLED OUT 8:00 PM	ON LOCATION 8:45 PM	JOB START 12:45 AM	JOB FINISH 1:15 AM
LEASE HOWAT	WELL # 1	LOCATION CODELL TOWN 1/4 W + N		COUNTY ROOKS	STATE KANSAS		

OLD OR NEW (Circle one)

CONTRACTOR DUKE DRUG RIG #1

TYPE OF JOB PRODUCTION STRING (D-Y)

HOLE SIZE 7 7/8 T.D. 3525

CASING SIZE 5 1/2 DEPTH 3512

TUBING SIZE 3 7/8 SURFACE DEPTH 212'

DRILL PIPE DEPTH _____

TOOL AFU INSERT DEPTH 3506'

PRES. MAX 1200# MINIMUM _____

MEAS. LINE ✓ SHOE JOINT 6'

CEMENT LEFT IN CSG. 6'

PERFS. _____

OWNER _____ CEMENT _____

AMOUNT ORDERED 175 SK ASC

520 GILSONITE

COMMON _____ @ _____

POZMIX _____ @ _____

GEL _____ @ _____

CHLORIDE _____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

HANDLING _____ @ _____

MILEAGE _____

EQUIPMENT

PUMP TRUCK CEMENTER Shane

177 HELPER Will

BULK TRUCK

160 DRIVER Bill M.

BULK TRUCK

_____ DRIVER _____

REMARKS:

(BOTTOM STAGE)

FLOAT HELD

Thanks!

11/25/96
SERVICE

TOTAL 996 NOV 25 12 1:29 PM
RECEIVED
KANSAS CORP. OIL

DEPTH OF JOB _____

PUMP TRUCK CHARGE _____

EXTRA FOOTAGE _____ @ _____

MILEAGE _____ @ _____

PLUG _____ @ _____

_____ @ _____

_____ @ _____

TOTAL _____

CHARGE TO: S&M Oil Co.

STREET _____

CITY _____ STATE _____ ZIP _____

FLOAT EQUIPMENT (BAKER)

1 - ARROW DV TOOL

3 - LIMIT CLAMPS @ _____

1 - GUIDE SHOE @ _____

1 - AFU INSERT @ _____

3 - BASKETS @ _____

6 - CENTRALIZERS @ _____

TOTAL _____

TAX _____

TOTAL CHARGE _____

DISCOUNT _____ IF PAID IN 30 DAYS

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SIGNATURE Steve Crawford