

ORIGINAL

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

API NO. 15- 163-23203 -00-00

County Rooks

NW - NE - NE - 7 Sec. 9 Twp. 16 Rge. X W

4950 Feet from S (circle one) Line of Section

990 Feet from E (circle one) Line of Section

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

Lease Name Brown C Well # 1

Field Name Westhusin East

Producing Formation Kansas City

Elevation: Ground 1926 KB 1934

Total Depth 3375 PBTD 3363

Amount of Surface Pipe Set and Cemented at 215 Feet

Multiple Stage Cementing Collar Used? Yes X No

If yes, show depth set perf. 1224 Feet

If Alternate II completion, cement circulated from 1224

feet depth to surface w/ 300 sx cont.

Drilling Fluid Management Plan ALT 2 7-20-93  
(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. \_\_\_\_\_ S Rng. \_\_\_\_\_ E/W

County \_\_\_\_\_ Docket No. \_\_\_\_\_

Operator: License # 8735

Name: S & M Oil Co.

Address P. O. Box 296

City/State/Zip Plainville, KS 67663

Purchaser: Farmland Industries, Inc.

Operator Contact Person: Steve Crawford

Phone ( 913 ) 434-2829

Contractor: Name: Prairie Drilling, Inc.

License: 30964

Wellsite Geologist: Steve Crawford

Designate Type of Completion

X New Well \_\_\_\_\_ Re-Entry \_\_\_\_\_ Workover

X Oil \_\_\_\_\_ SWD \_\_\_\_\_ SLOW \_\_\_\_\_ Temp. Abd.

\_\_\_\_\_ Gas \_\_\_\_\_ ENHR \_\_\_\_\_ SIGW

\_\_\_\_\_ Dry \_\_\_\_\_ Other (Core, WSW, 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 \_\_\_\_\_ PBTD

\_\_\_\_\_ Commingled \_\_\_\_\_ Docket No. \_\_\_\_\_

\_\_\_\_\_ Dual Completion \_\_\_\_\_ Docket No. \_\_\_\_\_

\_\_\_\_\_ Other (SWD or Inj?) \_\_\_\_\_ Docket No. \_\_\_\_\_

5-30-92 6-5-92 6-18-92

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.

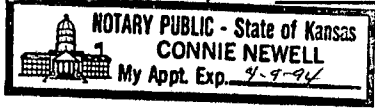
Signature Steve Crawford

Title Owner Date 7-14-93

Subscribed and sworn to before me this 14 day of July 19 93.

Notary Public Connie Newell

Date Commission Expires 7-9-94



K.C.C. OFFICE USE ONLY  
RECEIVED  
Letter of Confidentiality Received  
C  Wireline Log Received  
r  Geologist Report Received  
7-20-1993  
Distribution  
 KCC  
 KGS  
 SWD/Rep  
 NGPA  
CONSERVATION DIVISION  
Wichita, Kansas

SIDE TWO

Operator Name S & M Oil Co. Lease Name Brown C Well # 1

Sec. 7 Twp. 9 Rge. 16  East  West  
 County Rooks

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 (Attach Additional Sheets.)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datums	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Anhydrite	1222	1257
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Topeka	2811	3029
List All E.Logs Run:		Heebner	3029	3032
		Kansas City	3069	3317

CASING RECORD <input type="checkbox"/> New <input checked="" 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	# Sacks Used	Type and Percent Additives
Surface	12 1/4	8 5/8	20	215	60/40 poz	135	2% gel 3% c.c.
Production	7 7/8	5 1/2	14	3363	60/40 poz	675	6% gel 1/4 lb. F.s.

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	Acid, Fracture, Shot, Cement Squeeze Record	
	Specify Footage of Each Interval Perforated	(Amount and Kind of Material Used)	Depth
1	3079, 3125, 3134, 3163, 3175, 3190,	9,000 HCL	3079-3258
	3230, 3235, 3249, 3258	Limited entry 700 psi	

<b>TUBING RECORD</b>	Size <u>2 3/8'</u>	Set At <u>3308</u>	Packer At <u>---</u>	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Inj.	Producing Method <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)			
<u>6-18-92</u>				
Estimated Production Per 24 Hours	Oil Bbls. <u>24</u>	Gas Mcf <u>---</u>	Water Bbls. <u>180</u>	Gas-Oil Ratio <u>---</u> Gravity <u>34</u>

Disposition of Gas:  Vented  Sold  Used on Lease (if vented, submit ACO-18.)

METHOD OF COMPLETION:  Open Hole  Perf.  Dually Comp.  Commingled  Other (Specify) \_\_\_\_\_

Production Interval: 3079-3258



Petrolite Oil Field Chemicals Group  
Mid-Continent Region Technical Services

5801 West 10th Street  
Great Bend, Kansas 67530  
(913) 792-7728

WATER ANALYSIS REPORT

COMPANY: CRAWFORD PETROLEUM  
LEASE: BROWN C-1 *Dabbling Water*  
ANALYSIS NO.: FIELD

REPORT DATE: 5-29-92  
SAMPLE DATE: 5-29-92  
ENGINEER: ROD SUTTER

1. pH	5		
2. H2S (QUALITATIVE)	NEGATIVE		
3. SPECIFIC GRAVITY	1.000		
		mg/L	* meg/L
4. METHYL ORANGE ALKALINITY (CaCO3)		250	
5. BICARBONATE (HCO3)		305	5 HCO3
6. CHLORIDE (Cl)		666	19 Cl
7. SULFATES (SO4)		TRACE	0 SO4
8. CALCIUM (Ca)		280	14 Ca
9. MAGNESIUM (Mg)		24	2 Mg
10. TOTAL HARDNESS (CaCO3)		800	
11. TOTAL IRON (Fe)		N/A	
12. BARIUM (Ba)		N/A	
13. STRONTIUM (Sr)		N/A	
14. SODIUM (Na)		184	8 Na
15. TEMPERATURE (F)		70 DEG.	
16. RESISTIVITY (OHM-METERS)		N/A	
17. CALCIUM SULFATE (CaSO4 CALCULATED)		0	

\* meg/L = Milli equivalent per liter

CALCIUM CARBONATE SCALE INDEX: STIFF - DAVIS METHOD  
CALCIUM SULFATE SOLUBILITY: SKILLMAN-McDONALD-STIFF METHOD

TEMPERATURE (F)	CALCIUM CARBONATE	CALCIUM SULFATE
180 F	-0.61	
160 F	-0.83	
140 F	-0.92	
120 F	-1.19	
100 F	-1.36	
80 F	-1.51	

S.G. = SPECIFIC GRAVITY N.D. = NOT DETECTED N/A = NOTAVAILABLE

CALCIUM CARBONATE SCALE INDEX:  
(+) = SCALE

CALCIUM SULFATE SOLUBILITY (UNITS = mg/L)  
Meg (CaSO4) X 68.07 = CaSO4 mg/L

COMPARE mg/L CaSO4 FROM LINE #17 WITH SOLUBILITY VALUES IN THE REGIONAL DIVISION

RECEIVED  
STATE CORPORATION COMMISSION  
JUL 20 1993  
7-20-1993  
CONSERVATION DIVISION  
Wichita, Kansas

Respectfully Submitted  
PETROLITE CORP.  
ROD SUTTER

D. Russell, Kansas

193-5861, Great Bend, Kansas

15-163-23203-00-00  
ORIGINAL Phone Plainville 913-434-2812

Phone Ness City 913-798-3843

# ALLIED CEMENTING CO., INC.

2056

Home Office P. O. Box 31

Russell, Kansas 67665

New

Date	5-30-92	Sec.	7	fwp.	9	Range	16	Called Out	3:30 P.M.	On Location	5:30 P.M.	Job Start	8:15 P.M.	Finish	8:30 P.M.
Lease	Brown "C"	Well No.	1	Location	Plainville 3N8 1/2 E 1/4 NW	County	Rooks	State	Ks.						
Contractor	Prairie Dalg. Co.				Rig #1	Owner Same									
Type Job	Set Surface Pipe														
Hole Size	12 1/4"	T.D.	230'												
Csg.	8 7/8"	Depth	215'												
Tbg. Size		Depth													
Drill Pipe		Depth													
Tool		Depth													
Cement Left in Csg.	15'	Shoe Joint													
Press Max.		Minimum													
Meas Line		Displace	X												
Perf.															

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 listed.

Charge To S & M O.I.

Street P.O. Box 296

City Plainville State Ks. 67663

The above was done to satisfaction and supervision of owner agent or contractor.

Purchase Order No.

X R. J. [Signature]

CEMENT

Amount Ordered 135 sks @ 40 per 2 bag, 36 c.c.

Consisting of		
Common	81 sks @ 5.25/sk	\$425.25
Poz. Mix	54 sks @ 2.25/sk	121.50
Gel.	2 sks	N/C
Chloride	4 sks @ 21.00/sk	84.00
Quickset		

### EQUIPMENT

No.	Cementor	
Pumptrk 191	Helper	Gary H. Wayne Mo.
No.	Cementor	
Pumptrk	Helper	
	Driver	Joe S.
Bulktrk #212	Driver	

### DEPTH of Job

Reference #1	Pumptruck-surface	\$380.00
#13	mileage @ 2.00/mi	26.00
	1- 8 7/8" wooden plug	20.00
	Sub Total	\$426.00
	Tax	
	Total	

Remarks: Cement Circulated.

Handling	01.00/sk. (135 sks)	135.00
Mileage	044/sk./mi. (13 mi)	70.20
Sub Total		\$835.95
Total		

Floating Equipment

Thanks

\$1261.95

less dis. - 252.39

\$1009.26

RECEIVED  
STATE CORPORATION COMMISSION  
JUL 8 1992  
7-8-1992  
CONSERVATION DIVISION  
Wichita, Kansas

2627, Russell, Kansas  
793-5861, Great Bend, Kansas

15-163-23203-00-00  
**ORIGINAL** Phone Plainville 913-434-2812  
Phone Ness City 913-798-3843

*New*

# ALLIED CEMENTING CO., INC.

2062

Home Office P. O. Box 31

Russell, Kansas 67665

Date	6-10-92	Sec	7	Twp.	9 <sup>s</sup>	Range	16 <sup>w</sup>	Called Out	10:30 A.M.	On Location	12:45 P.M.	Job Start	2:45 P.M.	Finish	4:15 P.M.
Lease	Brown "C"	Well No.	1	Location	Plainville 8 1/2 E 3 1/4 N 1/4 W			County	Rooks	State	Ks.				
Contractor	Crawford Well Service														
Type Job	Squeeze														
Hole Size	7 7/8"	T.D.	3375'												
Csg.	5 1/2"	Depth	3363'												
Csg. Size	8 7/8"	Depth	215'												
Drill Pipe															
Tool	Drillable Plug	Depth	3071'												
Cement Left in Csg.	25'	Shoe Joint													
Press Max.	500 #	Minimum													
Meas Line	X	Displace													
Perts.	3 holes @ 1224'														

**EQUIPMENT**

Pumptrk	No.	Cementer	Gary H. Wayne Mo.
	191	Helper	
Pumptrk	No.	Cementer	Mark D.
		Helper	
Bulktrk	#146	Driver	Wayne Mo.
Bulktrk	#212	Driver	

**DEPTH of Job**

Reference:	#5 Pump truck - squeeze	#	380.00
	#13 mileage @ 2.00/mi.		26.00
	1-5 1/2" rubber plug		45.00
	<b>Sub Total</b>		<b>451.00</b>
	<b>Tax</b>		
	<b>Total</b>		

**Remarks:**

Perforated 5 1/2" csg. at 1224'  
Mixed cement and displaced to  
1200' and shut in at 300 #  
Cement Circulated  
Anhy 1222'-57'

Owner: Same

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 listed.

Charge To: 5 # M Oil

Street: P.O. Box 296

City: Plainville, State: Ks. 67663

The above was done to satisfaction and supervision of owner agent or contractor.

Purchase Order No. *[Signature]*

Amount Ordered	300 sks <sup>50</sup> / <sub>50</sub> per bagged, 1/4 # Floseal/sks	
Consisting of	465 sks com 360 c.c.	
Common	215 sks @ 5.25/sk.	1128.75
Poz. Mix	150 sks @ 2.25/sk.	337.50
Gel.	15 sks @ 6.75/sk. (Used 20 sks)	101.25
Chloride	2 sks @ 21.00/sk.	42.00
Quickset		
Floseal	75 # @ 1.00/lb.	75.00
Sales Tax		
Handling	1.00/sk. (365 sks)	365.00
Mileage	204 + 1/sk. mi. (13 mi.)	189.80
Sub Total		2239.30
Total		

**Floating Equipment**

Thanks

RECEIVED  
STATE REGISTRATION COMMISSION  
JUL 8 1992  
7-8-1992  
CONSERVATION DIVISION  
Wichita, Kansas

Russell, Kansas  
61, Great Bend, Kansas

15-163-23203-00-00  
ORIGINAL Phone Plainville 913-434-2812  
Phone Ness City 913-798-3843

# ALLIED CEMENTING CO., INC.

Home Office P. O. Box 31

Russell, Kansas 67665

2058

Lease	Sec.	Twp.	Range	Called Out	On Location	Job Start	Finish
6-5-92	7	9 <sup>s</sup>	16 <sup>w</sup>	10:00 A.M.	2:15 P.M.	7:30 P.M.	9:30 P.M.
Well No. 1		Location Plainville 8 1/2 E 3 3/4 N 1/4 W			County Rooks	State Ks.	

Contractor	Prairie Dng. Rig #1	
Type Job	Production String	
Hole Size	7 7/8"	T.D. 3375'
Csg.	5 1/2"	Depth 3363'
Csg. Size	8 7/8"	Depth 215'
Drill Pipe		Depth
Tool		Depth
Cement Left in Csg.	9'	Shoe Joint 9.02'
Press Max.	900#	Minimum
Meas Line	X	Displace
Perf.		

Owner	Same
To Allied Cementing Co., Inc. You are hereby requested to rent cementing equipment and furnish cement and helper to assist owner or contractor to do work as listed.	
Charge To	S & M Oil
Street	P.O. Box 296
City	Plainville, State Ks. 67663
The above was done to satisfaction and supervision of owner agent or contractor.	
Purchase Order No.	
<b>CEMENT</b>	

EQUIPMENT		
No.	Cementer	
Pumptrk 191	Helper	Gary H. Wayne, Mo.
No.	Cementer	
Pumptrk	Helper	
	Driver	Lawrence H.
Bulktrk #146		
Bulktrk #212	Driver	Joe S.

Amount Ordered	375 sks 60/40 gel, 8 1/2 gel, with 1/4 # of flo seal
Consisting of \$ 120 sks ASC, 108 gel, 12 1/2 lb gilsonite	
Common	225 # @ 5.25/sk. 1181.25
Poz. Mix	150 sks @ 2.25/sk. 337.50
Gel.	26 gel @ 6.75/sk. 175.50
Chloride Salt	12 sks @ 4.75/sk. 57.00
Gilsonite	1410 # @ 33#/lb. 465.30
Flo seal	94 # @ 1.00/lb. 94.00
ASC	120 sks @ 7.25/sk. 870.00
Sales Tax	

DEPTH of Job		
Reference #1	Pump truck - long string	# 880.00
#13	mileage @ 2.00/mi.	26.00
	1- 5 1/2" rubber plug	45.00
Sub Total		951.00
Tax		
Total		

Handling	1.00/sk. (495 sks)	495.00
Mileage	1.04 \$/sk./mi (13 mi.)	257.40
Sub Total #		3932.95
Total		

Remarks:  
Plugged rat hole w/15 sks.  
Plugged mouse hole w/10 sks  
Cement did not circulate  
Float Held.

Floating Equipment	5 1/2"
1- regular guide shoe	- \$ 125.00
1- AFU insert (Flapper type)	- 189.00
4- cementing baskets @ 127.00 ea	- 508.00
5- centralizers @ 46.00 ea	- 230.00
4- Limit clamps @ 13.00 ea	- 52.00

Thanks

RECEIVED  
STATE CORPORATION COMMISSION  
JUL 8 1992  
7-8-1992  
CONSERVATION DIVISION  
Wichita, Kansas