

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

Operator: License # 5135
Name: John O. Farmer, Inc.
Address P.O. Box 352
City/State/Zip Russell, KS 67665

Purchaser: _____

Operator Contact Person: Martin K. Dubois
Phone (913) 483-3144

Contractor: Name: Mallard JV, Inc.
License: 4958

Wellsite Geologist: M. Bradford Rine

Designate Type of Completion
 New Well Re-Entry Workover

 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 PBSD
 Commingled Docket No. _____
 Dual Completion Docket No. _____
 Other (SWD or Inj?) Docket No. _____

9-7-95 9-15-95 9-15-95
Spud Date Date Reached TD Completion Date

API NO. 15- 101-21,711-00-00
County _____ Lane _____
W/2 - SE - SW Sec. 33 Twp. 16S Rge. 30 X W E

660 Feet from (S) (circle one) Line of Section
1650 Feet from (W) (circle one) Line of Section
Footages Calculated from Nearest Outside Section Corner:
NE, SE NW or (S) (circle one)

Lease Name Wilkens Well # 1
Field Name Magie North
Producing Formation _____

Elevation: Ground 2869' KB 2874'
Total Depth 4596' PBSD _____

Amount of Surface Pipe Set and Cemented at 254 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 DAA 974 9-18-96
(Data must be collected from the Reserve Pit)

Chloride content 21,000 ppm Fluid volume 1,800 bbls
Dewatering method used evaporation

Location of fluid disposal if hauled offsite:
(not hauled)

Operator Name _____

Lease Name _____ License No. _____

Quarter Sec. Twp. S Rng. E/W

County _____ Docket No. _____

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.

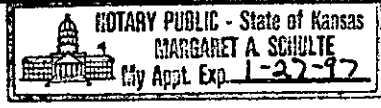
Signature John O. Farmer III

Title President Date: 10-25-95
Subscribed and sworn to before me this 25th day of October,
19 95.

Notary Public Margaret A. Schulte
Margaret A. Schulte

Date Commission Expires _____

RECEIVED C.C. OFFICE USE ONLY
STATE CORPORATION COMMISSION
Confidentiality Attached
 Wireline Log Received
 Geologist Report Received
Distribution
KCC _____ SWD/Rep _____ NGPA _____
KCS _____ Plug _____ Other _____
(Specify)
10-27-95



01910

SIDE TWO

Operator Name John O. Farmer, Inc. Lease Name Wilkens Well # 1
 East County _____ Lane _____
 Sec. 33 Twp. 16S Rge. 30 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 (Attach Additional Sheets.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datums	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Base/Anhydrite	2271'	(+603)
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Heebner	3907'	(-1033)
List All E.Logs Run:		Toronto	3927'	(-1053)
RA Guard Log		Lansing	3944'	(-1070)
		Stark	4210'	(-1336)
		Base/Kansas City	4300'	(-1426)
		Marmaton	4329'	(-1455)
		Fort Scott	4472'	(-1598)
		Cherokee	4498'	(-1624)
		Mississippi	4574'	(-1700)
		L.T.D.	4596'	(-1722)

CASING RECORD <input 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	# Sacks Used	Type and Percent Additives
Surface	12-1/4"	8-5/8"	28#	254'	60/40 Pozmix	150	3% C.C., 2% 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				

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

TUBING RECORD		Size	Set At	Packer At	Liner Run <input type="checkbox"/> Yes <input type="checkbox"/> No
Date of First, Resumed Production, SWD or Inj. D&A			Producing Method <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)		
Estimated Production Per 24 Hours	Oil N/A Bbls.	Gas N/A Mcf	Water N/A Bbls.	Gas-Oil Ratio	Gravity

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 _____

ORIGINAL

MALLARD JV, Inc.
DRILLING CONTRACTORS

P. O. Box 1009
McPHERSON, KS 67460

316-241-4640

Drillers Log

OPERATOR: **John O. Farmer, Inc.**
P. O. Box 352
Russell, KS 67665

WELL: **Wilkens #1**

API #: **15-101-21,711-00-00**

COMMENCED: **September 7, 1995**

COMPLETED: **September 15, 1995**

TOTAL DEPTH: **4595'**

LOCATION: **W/2 SE SW**
660' FSL, 1650' FWL
Section 33, Township 16 S, Range 30 W
Lane County, Kansas

ELEVATION: **2869' GL, 2874' KB**

STATUS: **Dry and Abandoned - Mississippi Formation**

SPUD: **12:50 pm 9/7/95**

SIZE HOLE DRILLED: **12-1/4" x 254'**

SURFACE CASING SIZE: **8-5/8" x 28# x 243.55' (8 jts.)**

SET AT: **250.15'**

CEMENT: **150 sacks 60/40 Pozmix, 2% gel, 3% cc**

SIZE HOLE DRILLED: **7-7/8" x 4595'**

PLUGGED HOLE WITH: **255 sacks 65/35 Pozmix, 6% gel, 1/4# floseal per sack as follows:**

50 sx @ 2274'

80 sx @ 1540'

50 sx @ 700'

40 sx @ 280'

10 sx @ 40'

15 sx rathole,

10 sx mousehole

P. D.: **2:15 pm 9/15/95**

DRILL STEM TESTS: **3**

ELECTRIC LOG: **Yes**

RESERVE PIT: **21,000 ppm chlorides, 300 bbls free fluid content**

RECEIVED
STATE CORPORATION COMMISSION

OCT 27 1995

COMMERCIAL DIVISION
WICHITA, KANSAS

ORIGINAL

DST REPORT

GENERAL INFORMATION

15-101-21711

DATE	: 9-11-95	TICKET	: 21084
CUSTOMER	: J.O. FARMER, INC.	LEASE	: WILKENS
WELL	: #1	TEST:	: 1
ELEVATION	: 2874 KB	GEOLOGIST	: RINE
SECTION	: 33	FORMATION	: LANSING
RANGE	: 30W	COUNTY	: LANE
GAUGE SN#	: 11018	RANGE	: 4425
		STATE	: KS
		CLOCK	: 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 3963.00 ft TO: 3987.00 ft TVD: 3987.0 ft
DEPTH OF SELECTIVE ZONE: TEST TYPE: OIL
DEPTH OF RECORDERS: 3966.0 ft 3984.0 ft
TEMPERATURE: 113.0

DRILL COLLAR LENGTH:	310.0 ft	I.D.:	2.250 in
WEIGHT PIPE LENGTH :	0.0 ft	I.D.:	0.000 in
DRILL PIPE LENGTH :	3633.0 ft	I.D.:	3.800 in
TEST TOOL LENGTH :	20.0 ft	TOOL SIZE :	5.500 in
ANCHOR LENGTH :	24.0 ft	ANCHOR SIZE:	5.500 in
SURFACE CHOKE SIZE :	0.750 in	BOTTOM CHOKE SIZE:	0.750 in
MAIN HOLE SIZE :	7.875 in	TOOL JOINT SIZE :	4.5XH
PACKER DEPTH:	3958.0 ft	SIZE:	6.630 in
PACKER DEPTH:	3963.0 ft	SIZE:	6.630 in
PACKER DEPTH:	0.0 ft	SIZE:	0.000 in
PACKER DEPTH:	0.0 ft	SIZE:	0.000 in

MUD INFORMATION

DRILLING CON. :	MALLARD DRILLING #2	VISCOSITY :	44.00 cp
MUD TYPE :	CHEMICAL	WATER LOSS:	8.000 cc
WEIGHT :	9.000 ppg	SERIAL NUMBER:	
CHLORIDES :	3000 ppm	REVERSED OUT?:	NO
JARS-MAKE :			
DID WELL FLOW?:	NO		

COMMENTS

Comment

INITIAL FLOW PERIOD-SLID TOOL 8FT TO BOTTOM, LOST
MUD IN PROCESS-HAD FAIR BLOW(4 INCHES), DEAD IN 15
MINUTES. FINAL FLOW PERIOD-NO BLOW; FLUSHED TOOL

DST REPORT (CONTINUED)

COMMENTS (CONTINUED)

Comment

& RECEIVED WEAK SURGE & THEN DIED.

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
125.0	10.0	0.0	0.0	90.0	OIL CUT MUD

RATE INFORMATION

OIL VOLUME:	0.0615 STB	TOTAL FLOW TIME:	90.0000 min.
GAS VOLUME:	0.0000 SCF	AVERAGE OIL RATE:	9.8350 STB/D
MUD VOLUME:	0.5532 STB	AVERAGE WATER RATE:	0.0000 STB/D
WATER VOLUME:	0.0000 STB		
TOTAL FLUID :	0.6147 STB		

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1910.00

Description	Duration	p1	p End
INITIAL FLOW	45.00	102.00	107.00
INITIAL SHUT-IN	45.00		582.00
FINAL FLOW	45.00	108.00	108.00
FINAL SHUT-IN	45.00		478.00

FINAL HYDROSTATIC PRESSURE: 1884.00

DST REPORT (CONTINUED)

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1942.00

Description	Duration	p1	p End
INITIAL FLOW	45.00	114.00	106.00
INITIAL SHUT-IN	42.00		579.00
FINAL FLOW	45.00	116.00	102.00
FINAL SHUT-IN	45.00		481.00

FINAL HYDROSTATIC PRESSURE: 1892.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE	: 9-11-95	TICKET	: 21084
CUSTOMER	: J.O. FARMER, INC.	LEASE	: WILKENS
WELL	: #1	GEOLOGIST	: RINE
ELEVATION	: 2874 KB	FORMATION	: LANSING
SECTION	: 33	TOWNSHIP	: 16S
RANGE	: 30W	STATE	: KS
GAUGE SN#	: 11018	CLOCK	: 12
	COUNTY: LANE		
	RANGE : 4425		

INITIAL FLOW

<u>Time</u> <u>(min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	114.00	114.00
5.00	110.00	-4.00
10.00	107.00	-3.00
15.00	106.00	-1.00
20.00	106.00	0.00
25.00	106.00	0.00
30.00	106.00	0.00
35.00	106.00	0.00
40.00	106.00	0.00
45.00	106.00	0.00

INITIAL SHUT IN

<u>Time</u> <u>(min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	167.00	167.00	16.00
6.00	280.00	113.00	8.50
9.00	355.00	75.00	6.00
12.00	399.00	44.00	4.75
15.00	434.00	35.00	4.00
18.00	464.00	30.00	3.50
21.00	488.00	24.00	3.14
24.00	506.00	18.00	2.88
27.00	520.00	14.00	2.67
30.00	537.00	17.00	2.50
33.00	549.00	12.00	2.36
36.00	558.00	9.00	2.25
39.00	570.00	12.00	2.15
42.00	579.00	9.00	2.07

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW

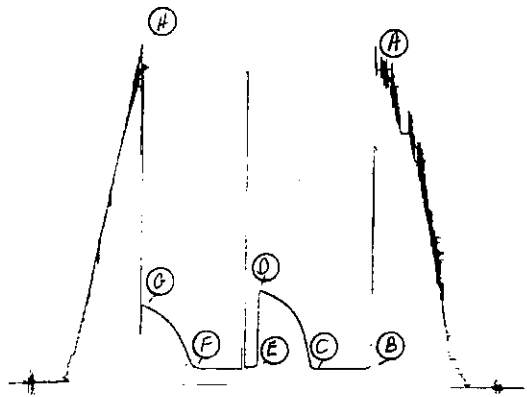
<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	116.00	116.00
5.00	113.00	-3.00
10.00	100.00	-13.00
15.00	100.00	0.00
20.00	103.00	3.00
25.00	103.00	0.00
30.00	102.00	-1.00
35.00	102.00	0.00
40.00	102.00	0.00
45.00	102.00	0.00

FINAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	116.00	116.00	16.00
6.00	161.00	45.00	8.50
9.00	220.00	59.00	6.00
12.00	270.00	50.00	4.75
15.00	311.00	41.00	4.00
18.00	341.00	30.00	3.50
21.00	373.00	32.00	3.14
24.00	394.00	21.00	2.88
27.00	414.00	20.00	2.67
30.00	431.00	17.00	2.50
33.00	445.00	14.00	2.36
36.00	457.00	12.00	2.25
39.00	470.00	13.00	2.15
42.00	477.00	7.00	2.07
45.00	481.00	4.00	2.00

DST #1
RBC #1101P
INSIDE

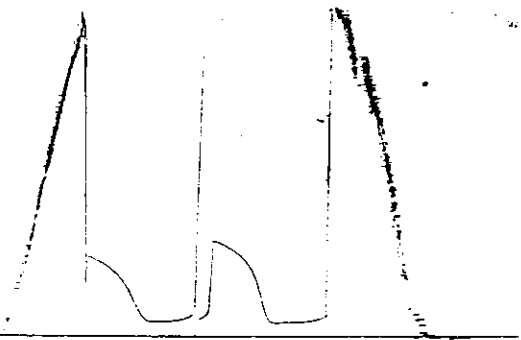
Ticket # 21084
I



Inside Recorder

DST #1
RBC #13629
OUTSIDE

Ticket # 21084
O



Outside Recorder

DST REPORT

GENERAL INFORMATION

DATE : 9-12-95
CUSTOMER : J.O. FARMER, INC.
WELL : #1 TEST: 2
ELEVATION: 2874 KB
SECTION : 33
RANGE : 30W COUNTY: LANE
GAUGE SN#: 11018 RANGE : 4425
TICKET : 21085
LEASE : WILKENS
GEOLOGIST: RINE
FORMATION: LANSING
TOWNSHIP : 16S
STATE : KS
CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 4015.00 ft TO: 4035.00 ft TVD: 4035.0 ft
DEPTH OF SELECTIVE ZONE: TEST TYPE: OIL
DEPTH OF RECORDERS: 4018.0 ft 4032.0 ft
TEMPERATURE: 124.0
DRILL COLLAR LENGTH: 250.0 ft I.D.: 2.250 in
WEIGHT PIPE LENGTH : 0.0 ft I.D.: 0.000 in
DRILL PIPE LENGTH : 3745.0 ft I.D.: 3.800 in
TEST TOOL LENGTH : 20.0 ft TOOL SIZE : 5.500 in
ANCHOR LENGTH : 20.0 ft ANCHOR SIZE: 5.500 in
SURFACE CHOKE SIZE : 0.750 in BOTTOM CHOKE SIZE: 0.750 in
MAIN HOLE SIZE : 7.875 in TOOL JOINT SIZE : 4.5XH
PACKER DEPTH: 4010.0 ft SIZE: 6.630 in
PACKER DEPTH: 4015.0 ft SIZE: 6.630 in
PACKER DEPTH: 0.0 ft SIZE: 0.000 in
PACKER DEPTH: 0.0 ft SIZE: 0.000 in

MUD INFORMATION

DRILLING CON. : MALLARD DRILLING #2
MUD TYPE : CHEMICAL VISCOSITY : 42.00 cp
WEIGHT : 8.800 ppg WATER LOSS: 8.000 cc
CHLORIDES : 4000 ppm
JARS-MAKE :
DID WELL FLOW?: NO SERIAL NUMBER:
REVERSED OUT?: NO

COMMENTS

Comment

INITIAL FLOW PERIOD-STRONG BLOW, BOTTOM OF BUCKET
IN 4 MINUTES. NO BLOWBACK.
FINAL FLOW PERIOD-STRONG BLOW, BOTTOM OF BUCKET

DST REPORT (CONTINUED)

COMMENTS (CONTINUED)

Comment

IN 7 MINUTES. NO BLOWBACK.

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
1900.0	0.0	0.0	100.0	0.0	SALT WATER
0.0	0.0	0.0	0.0	0.0	CHLORIDES 45,000 PPM

RATE INFORMATION

OIL VOLUME:	0.0000 STB	TOTAL FLOW TIME:	75.0000 min.
GAS VOLUME:	0.0000 SCF	AVERAGE OIL RATE:	0.0000 STB/D
MUD VOLUME:	0.0000 STB	AVERAGE WATER RATE:	467.9588 STB/D
WATER VOLUME:	24.3729 STB		
TOTAL FLUID :	24.3729 STB		

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1930.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	234.00	580.00
INITIAL SHUT-IN	45.00		1032.00
FINAL FLOW	45.00	682.00	900.00
FINAL SHUT-IN	60.00		1032.00
FINAL HYDROSTATIC PRESSURE:	1890.00		

DST REPORT (CONTINUED)

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1966.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	247.00	577.00
INITIAL SHUT-IN	48.00		1055.00
FINAL FLOW	45.00	693.00	909.00
FINAL SHUT-IN	63.00		1057.00

FINAL HYDROSTATIC PRESSURE: 1900.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 9-12-95	TICKET : 21085
CUSTOMER : J.O. FARMER, INC.	LEASE : WILKENS
WELL : #1	GEOLOGIST: RINE
ELEVATION: 2874 KB	FORMATION: LANSING
SECTION : 33	TOWNSHIP : 16S
RANGE : 30W	STATE : KS
GAUGE SN#: 11018	CLOCK : 12
TEST: 2	
COUNTY: LANE	
RANGE : 4425	

INITIAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	247.00	247.00
5.00	277.00	30.00
10.00	334.00	57.00
15.00	400.00	66.00
20.00	470.00	70.00
25.00	532.00	62.00
30.00	577.00	45.00

INITIAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	945.00	945.00	16.00
6.00	976.00	31.00	8.50
9.00	996.00	20.00	6.00
12.00	1012.00	16.00	4.75
15.00	1019.00	7.00	4.00
18.00	1026.00	7.00	3.50
21.00	1030.00	4.00	3.14
24.00	1035.00	5.00	2.88
27.00	1040.00	5.00	2.67
30.00	1041.00	1.00	2.50
33.00	1042.00	1.00	2.36
36.00	1048.00	6.00	2.25
39.00	1049.00	1.00	2.15
42.00	1052.00	3.00	2.07
45.00	1055.00	3.00	0.00
48.00	1055.00	0.00	0.00

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	693.00	693.00
5.00	704.00	11.00
10.00	726.00	22.00
15.00	758.00	32.00
20.00	794.00	36.00
25.00	823.00	29.00
30.00	850.00	27.00
35.00	872.00	22.00
40.00	896.00	24.00
45.00	909.00	13.00

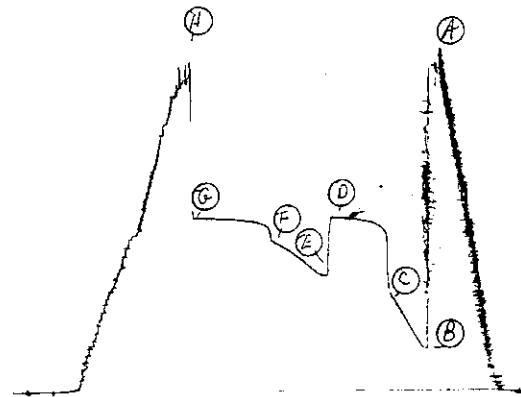
FINAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	993.00	993.00	16.00
6.00	1010.00	17.00	8.50
9.00	1019.00	9.00	6.00
12.00	1026.00	7.00	4.75
15.00	1032.00	6.00	4.00
18.00	1036.00	4.00	3.50
21.00	1040.00	4.00	3.14
24.00	1042.00	2.00	2.88
27.00	1046.00	4.00	2.67
30.00	1048.00	2.00	2.50
33.00	1050.00	2.00	2.36
36.00	1051.00	1.00	2.25
39.00	1052.00	1.00	2.15
42.00	1053.00	1.00	2.07
45.00	1053.00	0.00	2.00
48.00	1055.00	2.00	0.00
51.00	1056.00	1.00	0.00
54.00	1056.00	0.00	0.00
57.00	1056.00	0.00	0.00
60.00	1057.00	1.00	0.00
63.00	1057.00	0.00	0.00

DST #2
REC #1101P
INSIDE

Ticket # 21085

I

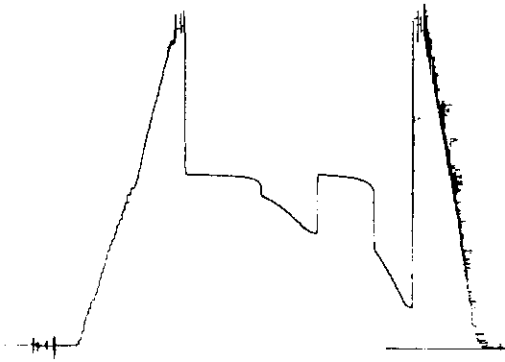


Inside Recorder

DST #2
REC #13629
OUTSIDE

Ticket # 21085

D



Outside Recorder

DST REPORT

GENERAL INFORMATION

DATE : 9-13-95
CUSTOMER : J.O. FARMER, INC.
WELL : #1 TEST: 3
ELEVATION : 2874 KB
SECTION : 33
RANGE : 30W COUNTY: LANE
GAUGE SN#: 11018 RANGE : 4425
TICKET : 21086
LEASE : WILKENS
GEOLOGIST: RINE
FORMATION: KANSAS CITY
TOWNSHIP : 16S
STATE : KS
CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 4172.00 ft TO: 4207.00 ft TVD: 4207.0 ft
DEPTH OF SELECTIVE ZONE: TEST TYPE: OIL
DEPTH OF RECORDERS: 4175.0 ft 4204.0 ft
TEMPERATURE: 114.0

DRILL COLLAR LENGTH:	250.0 ft	I.D.:	2.250 in
WEIGHT PIPE LENGTH :	0.0 ft	I.D.:	0.000 in
DRILL PIPE LENGTH :	3902.0 ft	I.D.:	3.800 in
TEST TOOL LENGTH :	20.0 ft	TOOL SIZE :	5.500 in
ANCHOR LENGTH :	35.0 ft	ANCHOR SIZE:	5.500 in
SURFACE CHOKE SIZE :	0.750 in	BOTTOM CHOKE SIZE:	0.750 in
MAIN HOLE SIZE :	7.875 in	TOOL JOINT SIZE :	4.5XH
PACKER DEPTH:	4167.0 ft	SIZE:	6.630 in
PACKER DEPTH:	4172.0 ft	SIZE:	6.630 in
PACKER DEPTH:	0.0 ft	SIZE:	0.000 in
PACKER DEPTH:	0.0 ft	SIZE:	0.000 in

MUD INFORMATION

DRILLING CON. : MALLARD DRILLING #2
MUD TYPE : CHEMICAL
WEIGHT : 9.300 ppg
CHLORIDES : 5000 ppm
JARS-MAKE :
DID WELL FLOW?: NO
VISCOSITY : 42.00 cp
WATER LOSS: 6.000 cc
SERIAL NUMBER:
REVERSED OUT?: NO

COMMENTS

Comment

INITIAL FLOW PERIOD-SLID TOOL 20FT, WHEN OPENED
LOSING MUD IN PROCESS-FAIR BLOW DEAD IN 10 MINUTES
FINAL FLOW PERIOD-NO BLOW, FLUSHED TOOL TO RECEIVE

DST REPORT (CONTINUED)

COMMENTS (CONTINUED)

Comment

SURGE.

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
40.0	0.0	0.0	0.0	100.0	OIL SPECKED MUD
120.0	0.0	0.0	0.0	100.0	DRILLING MUD
220.0	2.0	0.0	0.0	98.0	VERY SLIGHT OIL CUT MUD

RATE INFORMATION

OIL VOLUME: 0.0216 STB
 GAS VOLUME: 0.0000 SCF
 MUD VOLUME: 3.0312 STB
 WATER VOLUME: 0.0000 STB
 TOTAL FLUID : 3.0528 STB

TOTAL FLOW TIME: 60.0000 min.
 AVERAGE OIL RATE: 25.9643 STB/D
 AVERAGE WATER RATE: 0.0000 STB/D

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2010.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	148.00	148.00
INITIAL SHUT-IN	30.00		842.00
FINAL FLOW	30.00	140.00	140.00
FINAL SHUT-IN	30.00		714.00

FINAL HYDROSTATIC PRESSURE: 1988.00

DST REPORT (CONTINUED)

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2060.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	165.00	165.00
INITIAL SHUT-IN	33.00		839.00
FINAL FLOW	30.00	177.00	145.00
FINAL SHUT-IN	30.00		732.00

FINAL HYDROSTATIC PRESSURE: 2013.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 9-13-95	TICKET : 21086
CUSTOMER : J.O. FARMER, INC.	LEASE : WILKENS
WELL : #1	TEST: 3
ELEVATION: 2874 KB	GEOLOGIST: RINE
SECTION : 33	FORMATION: KANSAS CITY
RANGE : 30W	TOWNSHIP : 16S
COUNTY: LANE	STATE : KS
GAUGE SN#: 11018	RANGE : 4425
	CLOCK : 12

INITIAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	165.00	165.00
5.00	163.00	-2.00
10.00	163.00	0.00
15.00	163.00	0.00
20.00	164.00	1.00
25.00	164.00	0.00
30.00	165.00	1.00

INITIAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	340.00	340.00	11.00
6.00	463.00	123.00	6.00
9.00	553.00	90.00	4.33
12.00	616.00	63.00	3.50
15.00	674.00	58.00	3.00
18.00	719.00	45.00	2.67
21.00	753.00	34.00	2.43
24.00	784.00	31.00	2.25
27.00	809.00	25.00	2.11
30.00	834.00	25.00	2.00
33.00	839.00	5.00	1.91

FINAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
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PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW (CONTINUED)

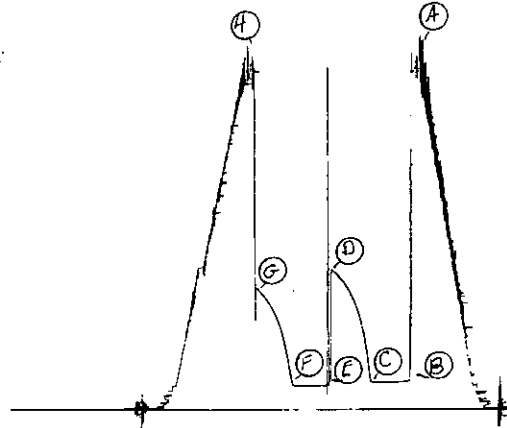
Time (min)	Pressure	Delta P
0.00	177.00	177.00
5.00	145.00	-32.00
10.00	142.00	-3.00
15.00	144.00	2.00
20.00	144.00	0.00
25.00	145.00	1.00
30.00	145.00	0.00

FINAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	259.00	259.00	11.00
6.00	371.00	112.00	6.00
9.00	459.00	88.00	4.33
12.00	525.00	66.00	3.50
15.00	579.00	54.00	3.00
18.00	625.00	46.00	2.67
21.00	661.00	36.00	2.43
24.00	692.00	31.00	2.25
27.00	716.00	24.00	2.11
30.00	732.00	16.00	2.00

DST #3
Roc #11012
INSIDE

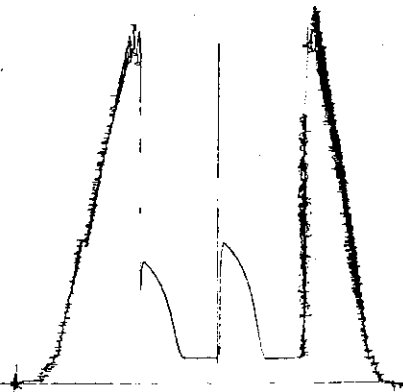
Ticket # 21086
I



Inside Recorder

DST #3
Roc #13624
OUTSIDE

Ticket # 21086
O



Outside Recorder

ALLIED CEMENTING CO., INC.

1666

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

ORIGINAL

SERVICE POINT:

New City

DATE <u>9-7-95</u>	SEC. <u>33</u>	TWP. <u>16</u>	RANGE <u>30</u>	CALLED OUT <u>1:30PM</u>	ON LOCATION <u>4:00PM</u>	JOB START <u>5:30PM</u>	JOB FINISH <u>6:00PM</u>
LEASE <u>Williams</u>	WELL # <u>1</u>	LOCATION <u>Nealy 2W-110-3 E</u>			COUNTY <u>Lawe</u>	STATE <u>KS</u>	

OLD OR NEW (Circle one)

CONTRACTOR Mallard
 TYPE OF JOB Surface
 HOLE SIZE 12 1/4" T.D. 254'
 CASING SIZE 8 5/8 28" DEPTH 250
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE _____ DEPTH _____
 TOOL _____ DEPTH _____
 PRES. MAX _____ MINIMUM _____
 MEAS. LINE _____ SHOE JOINT _____
 CEMENT LEFT IN CSG. 15
 PERFS. _____

OWNER Same
 CEMENT

AMOUNT ORDERED 150 69/40 203

COMMON _____ @ _____
 POZMIX _____ @ _____
 GEL _____ @ _____
 CHLORIDE _____ @ _____
 _____ @ _____
 _____ @ _____
 _____ @ _____
 _____ @ _____
 HANDLING _____ @ _____
 MILEAGE _____ @ _____

EQUIPMENT

PUMP TRUCK CEMENTER Mike
 # 224 HELPER Bob
 BULK TRUCK
 # 116 DRIVER Bill
 BULK TRUCK
 # _____ DRIVER _____

TOTAL _____

REMARKS:

Ran 250' 8 5/8" 28# Pipe - Bore Circulation
with Reg. Cemented with 150 69/40 203
then displaced with 14 1/2" 55' fresh H₂O
Cement did Circulate.
Thank you
Allied Cementing
Mike, Bob, Bill

SERVICE

DEPTH OF JOB _____
 PUMP TRUCK CHARGE _____
 EXTRA FOOTAGE _____ @ _____
 MILEAGE _____ @ _____
 PLUG THD _____ @ _____
 _____ @ _____
 _____ @ _____

TOTAL _____

CHARGE TO: John D. Turner
 STREET _____
 CITY _____ STATE _____ ZIP _____

FLOAT EQUIPMENT

_____ @ _____
 _____ @ _____
 _____ @ _____
 _____ @ _____
 _____ @ _____

TOTAL _____

TAX _____
 TOTAL CHARGE _____
 DISCOUNT _____ IF PAID IN 30 DAYS

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 John D. Turner

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 the 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.

ALLIED CEMENTING CO., INC.

1673

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

SERVICE POINT:

Ness City

ORIGINAL

DATE <u>9-15-95</u>	SEC. <u>33</u>	TWP. <u>16</u>	RANGE <u>30</u>	CALLED OUT <u>8:30 AM</u>	ON LOCATION <u>11:00 AM</u>	JOB START <u>12:30 PM</u>	JOB FINISH <u>2:15 PM</u>
LEASE <u>Wilkins</u>	WELL # <u>1</u>	LOCATION <u>Healy 2w-110-3E</u>			COUNTY <u>Lane</u>	STATE <u>KS</u>	

OLD OR NEW (Circle one)

CONTRACTOR Mallard

TYPE OF JOB R. Plug

HOLE SIZE 7 3/4" T.D. 4595

CASING SIZE _____ DEPTH _____

TUBING SIZE _____ DEPTH _____

DRILL PIPE 4 1/2" DEPTH 2274

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. _____

PERFS. _____

OWNER Same

CEMENT

AMOUNT ORDERED 255 65/35 6798 4 1/2

COMMON _____ @ _____

POZMIX _____ @ _____

GEL _____ @ _____

CHLORIDE _____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

HANDLING _____ @ _____

MILEAGE _____ @ _____

TOTAL _____

EQUIPMENT

PUMP TRUCK CEMENTER Mike

224 HELPER Bob

BULK TRUCK DRIVER Bill

199

BULK TRUCK DRIVER _____

REMARKS:

1st Plug at 2274 w/ 50SKs

2nd Plug at 1540 w/ 80SKs

3rd Plug at 700' w/ 50SKs

4th Plug at 280' w/ 40SKs

5th Plug at 40' w/ 10SKs

Pat Hole 15SKs Main Hole w/ 10SKs

Thank you

Allied Cementing

Mike, Bob, Bill

SERVICE

DEPTH OF JOB _____

PUMP TRUCK CHARGE _____

EXTRA FOOTAGE _____ @ _____

MILEAGE _____ @ _____

PLUG Old Hole plug _____ @ _____

_____ @ _____

_____ @ _____

TOTAL _____

CHARGE TO: John O. Jaimes

STREET _____

CITY _____ STATE _____ ZIP _____

FLOAT EQUIPMENT

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

TOTAL _____

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 _____

TOTAL CHARGE _____

DISCOUNT _____ IF PAID IN 30 DAYS

SIGNATURE [Signature]

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.

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—**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.

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(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.

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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.

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(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.