

ORIGINAL

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

Operator: License # 30606

Name: Murfin Drilling Co., Inc.

Address 250 N. Water, Suite 300

City/State/Zip Wichita, KS 67202

Purchaser: \_\_\_\_\_

Operator Contact Person: Larry M. Jack

Phone (\_\_\_\_) 267-3241

Contractor: Name: Murfin Drilling Co., Inc.

License: 30606

Wellsite Geologist Rich Bell

Designate Type of Completion

New Well  Re-Entry  Workover

Oil  SWD  SLOW  Temp. Abd.

Gas  ENHR  SIGM

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. \_\_\_\_\_

6/14/93 6/21/93

Spud Date 6/14/93 Date Reached TD 6/21/93 Completion Date \_\_\_\_\_

API NO. 15- 065-22716 <sup>00-00</sup>

County Graham

S/2 - SW - NE Sec. 9 Twp. 7S Rge. 23W <sup>E</sup>

2970 2310 Feet from S (circle one) Line of Section

1980 Feet from E (circle one) Line of Section

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

Lease Name Seeger Well # 1-9

Field Name Unknown

Producing Formation \_\_\_\_\_

Elevation: Ground 2418 KB 2423

Total Depth 3945 PBSD -

Amount of Surface Pipe Set and Cemented at 264 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 cnt.

Drilling Fluid Management Plan OJA 7-9-93  
(Data must be collected from the Reserve Pit)

Chloride content 2000 ppm Fluid volume 2500 bbls

Dewatering method used evaporation

Location of fluid disposal if hauled offsite: \_\_\_\_\_

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.

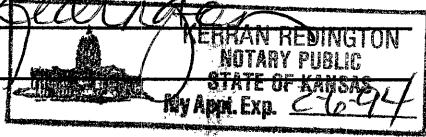
Signature By: Larry M. Jack

Title Larry M. Jack, Prod. Mgr. Date 6/25/93

Subscribed and sworn to before me this 25 day of June, 19 93.

Notary Public Kerran Redington

Date Commission Expires 2/6/94



RECEIVED  
KANSAS CORPORATION COMMISSION  
6-29-93  
JUN 29 1993  
C.C. OFFICE USE ONLY  
F  Letter of Confidentiality Attached  
 Wireline Log Received  
 Geologist Report Received  
Wichita, Kansas  
Distribution  
 KCC  SWD/Rep  NGPA  
 KGS  Plug  Other  
(Specify)  
4

Operator Name Murfin Drilling Co., Inc. Lease Name Seeger Well # 1-9  
 Sec. 9 Twp. 7S Rge. 23W  East County Graham  
 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:  
 see attached

Log Formation (Top), Depth and Datums  Sample  
 Name Top Datum  
 see attached

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	24#	264	60/40 Poz	190	2%gel, 3%cc

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.	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 Bbls.	Gas Mcf	Water 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 \_\_\_\_\_

15-065-22716-00-00

RICHARD B. BELL

Geologist

106 W. Cedar  
Hill City, Kansas 67642

K C C

913-674-2528

GEOLOGIST'S JOURNAL REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY Murfin Drilling Company  
LEASE Seeger 1-9  
FIELD \_\_\_\_\_  
LOCATION C-5/2 SW SE  
SEC 9 TWSP 7s RGE 23w  
COUNTY Graham STATE Kansas

ELEVATIONS

KB 2423'  
DF \_\_\_\_\_  
GL 2418'  
Measurements Are All  
From KB

CONTRACTOR Company Rig #8  
SPUD 6-14-93 COMP 6-20-93  
RTD 3945' LTD 3944'  
MUD UP 3260' TYPE MUD Chemical

CASING  
SURFACE 8 5/8" @ 264'  
PRODUCTION none

ELECTRICAL SURVEYS  
Great Guns

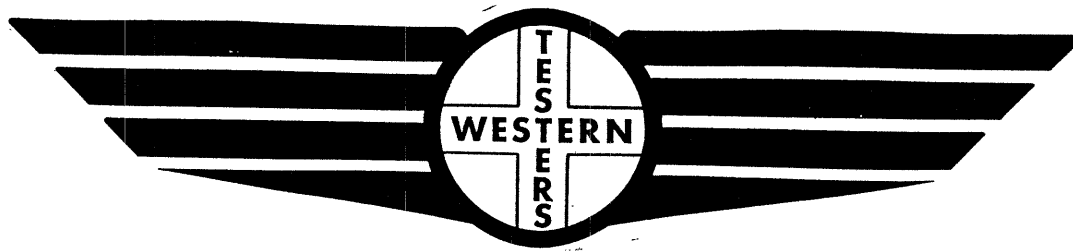
SAMPLES SAVED FROM B.S.P TO 3945'  
DRILLING TIME KEPT FROM 3300' TO 3945'  
SAMPLES EXAMINED FROM 3300' TO 3945'  
GEOLOGICAL SUPERVISION FROM 3300' TO 3945'  
GEOLOGIST ON WELL Richard Bell

FORMATION TOPS	LOG Datum	SAMPLES
<u>Anhydrite</u>	<u>2115 +308</u>	<u>2117</u>
<u>Base Anhydrite</u>	<u>2148 +275</u>	<u>2151</u>
<u>Topeka</u>	<u>3455 -1032</u>	<u>3458</u>
<u>Heebner</u>	<u>3658 -1235</u>	<u>3661</u>
<u>Toronto</u>	<u>3683 -1260</u>	<u>3689</u>
<u>Lansing</u>	<u>3699 -1276</u>	<u>3701</u>
<u>Base Kansas City</u>	<u>3893 -1470</u>	<u>3895</u>
<u>Total Depth</u>	<u>3944 -1521</u>	<u>3945</u>


15-065-22716-00-00

COMPANY MURFIN DRILLING COMPANY LEASE & WELL NO. SEEGER #1-9 SEC. 9 TWP. 7S RGE. 23W TEST NO. 1. DATE 6-19-93

# FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone 1 - 800-688-7021

RECEIVED  
STATE CORPORATION COMMISSION

JUN 29 1993

CONSERVATION DIVISION  
Wichita, Kansas

6/29/93

DST REPORT

GENERAL INFORMATION

DATE : 6-19-93  
CUSTOMER : MURFIN DRILLING COMPANY  
WELL : 1-9 TEST: 1  
ELEVATION: 2423KB  
SECTION : 9  
RANGE : 23W COUNTY: GRAHAM  
GAUGE SN#: 1562 RANGE : 3900  
TICKET : 19010  
LEASE : SEEGER  
GEOLOGIST: RICHARD BELL  
FORMATION: KC E-F  
TOWNSHIP : 7S  
STATE : KS  
CLOCK : 12 HR.

WELL INFORMATION

PERFORATION INTERVAL FROM: 3762.00 ft TO: 3786.00 ft TVD: 3786.0 ft  
DEPTH OF SELECTIVE ZONE: TEST TYPE: OIL  
DEPTH OF RECORDERS: 3774.0 ft 3777.0 ft  
TEMPERATURE: 119.0  
DRILL COLLAR LENGTH: 30.0 ft I.D.: 2.250 in  
WEIGHT PIPE LENGTH : 0.0 ft I.D.: 0.000 in  
DRILL PIPE LENGTH : 3712.0 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: 3757.0 ft SIZE: 6.630 in  
PACKER DEPTH: 3762.0 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. : MURFIN RIG #8  
MUD TYPE : CHEMICAL VISCOSITY : 50.00 cp  
WEIGHT : 9.300 ppg WATER LOSS: 10.800 cc  
CHLORIDES : 2000 ppm  
JARS-MAKE : NONE SERIAL NUMBER:  
DID WELL FLOW?: NO REVERSED OUT?: NO

COMMENTS

Comment

WEAK SURFACE BLOW, SLOWLING BUILDING TO 3.25" IN  
BUCKET IN 30 MIN. ON INITIAL FLOW PERIOD. VERY  
WEAK SURFACE BLOW, SLOWLY BUILDING TO 5" IN 60 MIN

15-065-22716-00-00

DST REPORT (CONTINUED)

COMMENTS (CONTINUED)

Comment

ON FINAL FLOW PERIOD.

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
20.0	0.0	0.0	20.0	80.0	WATERY MUD W/SCUM OF OIL
120.0	0.0	0.0	100.0	0.0	SALT WATER
0.0	0.0	0.0	0.0	0.0	CHLORIDES 26000 PPM

RATE INFORMATION

OIL VOLUME:	0.0000	STB	TOTAL FLOW TIME:	90.0000	min.
GAS VOLUME:	0.0000	SCF	AVERAGE OIL RATE:	0.0000	STB/D
MUD VOLUME:	0.2244	STB	AVERAGE WATER RATE:	27.0468	STB/D
WATER VOLUME:	1.4660	STB			
TOTAL FLUID :	1.6904	STB			

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE:		1968.00		
Description	Duration	p1	p End	
INITIAL FLOW	30.00	48.00	54.00	
INITIAL SHUT-IN	45.00		1278.00	
FINAL FLOW	60.00	72.00	96.00	
FINAL SHUT-IN	90.00		1257.00	
FINAL HYDROSTATIC PRESSURE:		1918.00		

RECEIVED  
 STATE CORPORATION COMMISSION  
 JUN 29 1993  
 CONSERVATION DIVISION  
 Wichita, Kansas

6/29/93

DST REPORT (CONTINUED)

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1941.00

<u>Description</u>	<u>Duration</u>	<u>p1</u>	<u>p End</u>
INITIAL FLOW	30.00	60.00	53.00
INITIAL SHUT-IN	45.00		1253.00
FINAL FLOW	60.00	82.00	87.00
FINAL SHUT-IN	90.00		1239.00
FINAL HYDROSTATIC PRESSURE:	1895.00		

RECEIVED  
STATE CORPORATION COMMISSION

JUN 29 1993

CONSERVATION DIVISION  
Wichita, Kansas

25/52/9

15-065-22716-00-00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 6-19-93  
CUSTOMER : MURFIN DRILLING COMPANY  
WELL : 1-9 TEST: 1  
ELEVATION: 2423KB  
SECTION : 9  
RANGE : 23W COUNTY: GRAHAM  
GAUGE SN#: 1562 RANGE : 3900  
TICKET : 19010  
LEASE : SEEGER  
GEOLOGIST: RICHARD BELL  
FORMATION: KC E-F  
TOWNSHIP : 7S  
STATE : KS  
CLOCK : 12 HR.

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	60.00	60.00
5.00	52.00	-8.00
10.00	51.00	-1.00
15.00	50.00	-1.00
20.00	51.00	1.00
25.00	52.00	1.00
30.00	53.00	1.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	595.00	595.00	0.00
6.00	1038.00	443.00	0.00
9.00	1126.00	88.00	0.00
12.00	1160.00	34.00	0.00
15.00	1184.00	24.00	0.00
18.00	1202.00	18.00	0.00
21.00	1213.00	11.00	0.00
24.00	1221.00	8.00	0.00
27.00	1229.00	8.00	0.00
30.00	1235.00	6.00	0.00
33.00	1243.00	8.00	0.00
36.00	1249.00	6.00	0.00
39.00	1251.00	2.00	0.00
42.00	1252.00	1.00	0.00
45.00	1253.00	1.00	0.00



PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW

Time (min)	Pressure	Delta P
0.00	82.00	82.00
5.00	67.00	-15.00
10.00	68.00	1.00
15.00	69.00	1.00
20.00	70.00	1.00
25.00	71.00	1.00
30.00	72.00	1.00
35.00	74.00	2.00
40.00	76.00	2.00
45.00	78.00	2.00
50.00	81.00	3.00
55.00	84.00	3.00
60.00	87.00	3.00

FINAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	346.00	346.00	0.00
6.00	929.00	583.00	0.00
9.00	1026.00	97.00	0.00
12.00	1067.00	41.00	0.00
15.00	1095.00	28.00	0.00
18.00	1113.00	18.00	0.00
21.00	1126.00	13.00	0.00
24.00	1138.00	12.00	0.00
27.00	1146.00	8.00	0.00
30.00	1158.00	12.00	0.00
33.00	1164.00	6.00	0.00
36.00	1174.00	10.00	0.00
39.00	1182.00	8.00	0.00
42.00	1186.00	4.00	0.00
45.00	1190.00	4.00	0.00
48.00	1198.00	8.00	0.00
51.00	1202.00	4.00	0.00
54.00	1205.00	3.00	0.00
57.00	1208.00	3.00	0.00
60.00	1211.00	3.00	0.00
63.00	1215.00	4.00	0.00
66.00	1219.00	4.00	0.00
69.00	1223.00	4.00	0.00
72.00	1225.00	2.00	0.00
75.00	1227.00	2.00	0.00

15-065-22716-00-00

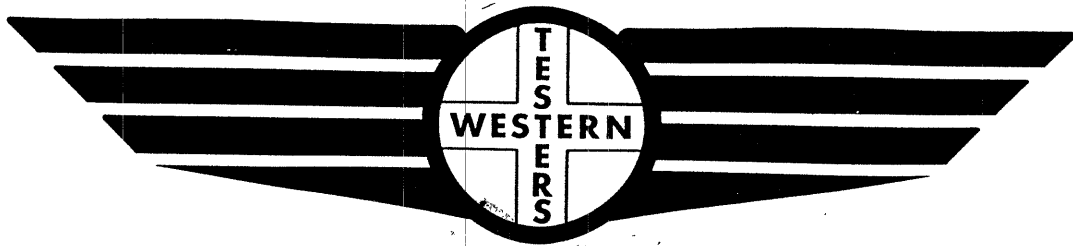
PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL SHUT IN (CONTINUED)

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
78.00	1229.00	2.00	0.00
81.00	1231.00	2.00	0.00
84.00	1233.00	2.00	0.00
87.00	1236.00	3.00	0.00
90.00	1239.00	3.00	0.00

15-065-22716-00-00

# FORMATION TEST REPORT



Home Office:

P.O. Box 1599

Wichita, Kansas 67201

Phone 1-800-688-7021

COMPANY MURFIN DRILLING CO., INC. LEASE & WELL NO. #1-9 SEGER SEC. 9 TWP. 7S RGE. 23W TEST NO. 2 DATE 6/19/93

DST REPORT

GENERAL INFORMATION

DATE : 6-19-93  
CUSTOMER : MURFIN DRILLING COMPANY  
WELL : 1-9 TEST: 2  
ELEVATION: 2423KB  
SECTION : 9  
RANGE : 23W COUNTY: GRAHAM  
GAUGE SN#: 1562 RANGE : 3900  
TICKET : 18744  
LEASE : SEEGER  
GEOLOGIST: RICHARD BELL  
FORMATION: KC H-I-J  
TOWNSHIP : 7S  
STATE : KS  
CLOCK : 12 HR.

WELL INFORMATION

PERFORATION INTERVAL FROM: 3807.00 ft TO: 3866.00 ft TVD: 3866.0 ft  
DEPTH OF SELECTIVE ZONE: TEST TYPE: OIL  
DEPTH OF RECORDERS: 3810.0 ft 3813.0 ft  
TEMPERATURE: 120.0  
DRILL COLLAR LENGTH: 30.0 ft I.D.: 2.250 in  
WEIGHT PIPE LENGTH : 0.0 ft I.D.: 0.000 in  
DRILL PIPE LENGTH : 3757.0 ft I.D.: 3.800 in  
TEST TOOL LENGTH : 20.0 ft TOOL SIZE : 5.500 in  
ANCHOR LENGTH : 59.0 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: 3802.0 ft SIZE: 6.630 in  
PACKER DEPTH: 3807.0 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. : MURFIN RIG #8  
MUD TYPE : CHEMICAL VISCOSITY : 49.00 cp  
WEIGHT : 9.500 ppg WATER LOSS: 10.400 cc  
CHLORIDES : 1000 ppm  
JARS-MAKE : NONE SERIAL NUMBER:  
DID WELL FLOW?: NO REVERSED OUT?: NO

COMMENTS

Comment

INITIAL FLOW PERIOD WEAK AND INCREASED TO STRONG  
BLOW OFF BOTTOM OF BUCKET IN 18 MIN  
FINAL FLOW PERIOD WEAK AND INCREASED TO STRONG

15-069-22716-00-00

DST REPORT (CONTINUED)

COMMENTS (CONTINUED)

Comment

BLOW OFF BOTTOM OF BUCKET IN 17 MIN

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
60.0	100.0	0.0	0.0	0.0	OIL 33 GRAVITY 60 DEG. F.
45.0	50.0	0.0	0.0	50.0	MUD CUT OIL
240.0	0.0	0.0	100.0	0.0	WATER CHLORIDES 39000PPM
0.0	0.0	0.0	0.0	0.0	240 FEET OF GAS IN PIPE

RATE INFORMATION

OIL VOLUME: 1.1572 STB  
 GAS VOLUME: 0.0000 SCF  
 MUD VOLUME: 0.3156 STB  
 WATER VOLUME: 3.0931 STB  
 TOTAL FLUID : 4.5658 STB

TOTAL FLOW TIME: 90.0000 min.  
 AVERAGE OIL RATE: 23.5643 STB/D  
 AVERAGE WATER RATE: 49.4889 STB/D

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1885.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	50.00	60.00
INITIAL SHUT-IN	60.00		1351.00
FINAL FLOW	60.00	110.00	140.00
FINAL SHUT-IN	120.00		1351.00

FINAL HYDROSTATIC PRESSURE: 1885.00

DST REPORT (CONTINUED)

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1890.00

<u>Description</u>	<u>Duration</u>	<u>p1</u>	<u>p End</u>
INITIAL FLOW	30.00	50.00	60.00
INITIAL SHUT-IN	60.00		1360.00
FINAL FLOW	60.00	110.00	144.00
FINAL SHUT-IN	120.00		1354.00
FINAL HYDROSTATIC PRESSURE:	1883.00		

15-005-22716-00-00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 6-19-93  
CUSTOMER : MURFIN DRILLING COMPANY  
WELL : 1-9 TEST: 2  
ELEVATION: 2423KB  
SECTION : 9  
RANGE : 23W COUNTY: GRAHAM  
GAUGE SN#: 1562 RANGE : 3900  
TICKET : 18744  
LEASE : SEEGER  
GEOLOGIST: RICHARD BELL  
FORMATION: KC H-I-J  
TOWNSHIP : 7S  
STATE : KS  
CLOCK : 12 HR.

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	50.00	50.00
5.00	50.00	0.00
10.00	50.00	0.00
15.00	50.00	0.00
20.00	56.00	6.00
25.00	58.00	2.00
30.00	60.00	2.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	579.00	579.00	0.00
6.00	1243.00	664.00	0.00
9.00	1270.00	27.00	0.00
12.00	1288.00	18.00	0.00
15.00	1302.00	14.00	0.00
18.00	1316.00	14.00	0.00
21.00	1324.00	8.00	0.00
24.00	1330.00	6.00	0.00
27.00	1333.00	3.00	0.00
30.00	1339.00	6.00	0.00
33.00	1341.00	2.00	0.00
36.00	1344.00	3.00	0.00
39.00	1347.00	3.00	0.00
42.00	1348.00	1.00	0.00
45.00	1349.00	1.00	0.00
48.00	1353.00	4.00	0.00
51.00	1359.00	6.00	0.00
54.00	1360.00	1.00	0.00
57.00	1360.00	0.00	0.00

PRESSURE TRANSIENT REPORT (CONTINUED)

INITIAL SHUT IN (CONTINUED)

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
60.00	1360.00	0.00	0.00

FINAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	110.00	110.00
5.00	110.00	0.00
10.00	110.00	0.00
15.00	110.00	0.00
20.00	110.00	0.00
25.00	110.00	0.00
30.00	116.00	6.00
35.00	119.00	3.00
40.00	126.00	7.00
45.00	132.00	6.00
50.00	138.00	6.00
55.00	142.00	4.00
60.00	144.00	2.00

FINAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	652.00	652.00	0.00
6.00	1227.00	575.00	0.00
9.00	1233.00	6.00	0.00
12.00	1274.00	41.00	0.00
15.00	1288.00	14.00	0.00
18.00	1300.00	12.00	0.00
21.00	1306.00	6.00	0.00
24.00	1314.00	8.00	0.00
27.00	1318.00	4.00	0.00
30.00	1322.00	4.00	0.00
33.00	1326.00	4.00	0.00
36.00	1332.00	6.00	0.00
39.00	1333.00	1.00	0.00
42.00	1335.00	2.00	0.00
45.00	1337.00	2.00	0.00
48.00	1338.00	1.00	0.00



15-065-22716-00-00

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL SHUT IN (CONTINUED)

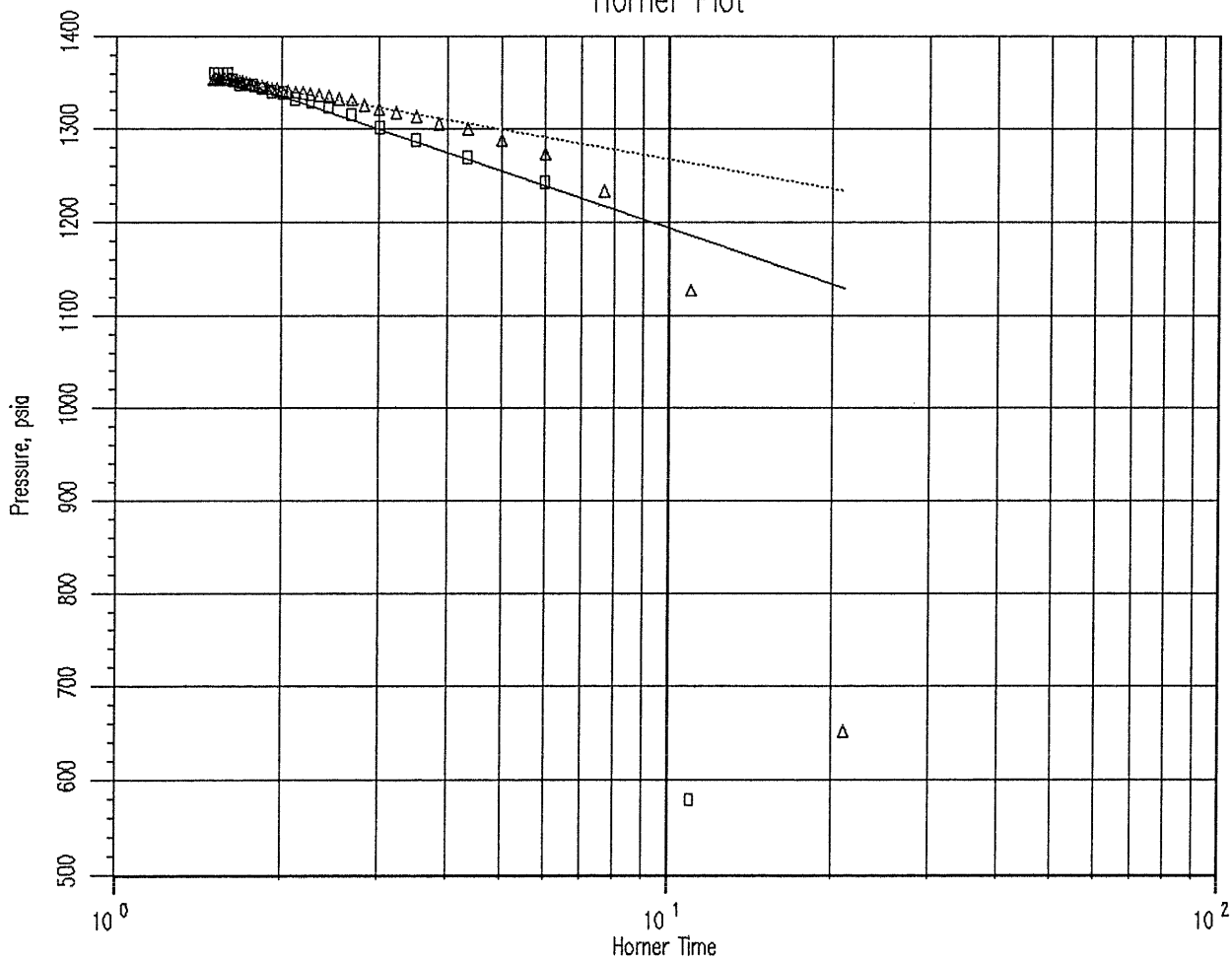
<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
51.00	1339.00	1.00	0.00
54.00	1340.00	1.00	0.00
57.00	1341.00	1.00	0.00
60.00	1342.00	1.00	0.00
63.00	1343.00	1.00	0.00
66.00	1344.00	1.00	0.00
69.00	1345.00	1.00	0.00
72.00	1346.00	1.00	0.00
75.00	1347.00	1.00	0.00
78.00	1348.00	1.00	0.00
81.00	1349.00	1.00	0.00
84.00	1350.00	1.00	0.00
87.00	1351.00	1.00	0.00
90.00	1352.00	1.00	0.00
93.00	1353.00	1.00	0.00
96.00	1354.00	1.00	0.00
99.00	1354.00	0.00	0.00
102.00	1354.00	0.00	0.00
105.00	1354.00	0.00	0.00
108.00	1354.00	0.00	0.00
111.00	1354.00	0.00	0.00
114.00	1354.00	0.00	0.00
117.00	1354.00	0.00	0.00
120.00	1354.00	0.00	0.00

DATE 6-19-93  
 CUSTOMER MURFIN DRILLING COMPANY  
 WELL 1-9  
 ELEVATION 2423KB  
 SECTION 9  
 RANGE 23W  
 GAUGE SN# 1562

TEST 2  
 COUNTY GRAHAM  
 RANGE 3900

TICKET 18744  
 LEASE SEEGER  
 GEOLOGIST RICHARD BELL  
 FORMATION LAN  
 TOWNSHIP 7S  
 STATE KS  
 CLOCK 12 HR.

Horner Plot



Result

	#1	#2
tp, hrs	0.50	1.00
Slope	-202.08	-106.54
Pstar, psig	1396.78	1374.53
P1hr, psig	1361.20	1342.46
Skin	4.38	9.39
k, md	10.60	20.10
kh/u, md-ft/cp	21.19	40.20
ri, ft	11.14	21.70
DR, %	2.07	3.32
Drawdown Factor, %		0.441
Drawdown P*, %		1.593

— BUILD 1  
 ..... BUILD 2

15-065-22716-00-00

HORNER ANALYSIS REPORT

GENERAL INFORMATION

DATE : 6-19-93	TICKET : 18744
CUSTOMER : MURFIN DRILLING COMPANY	LEASE : SEEGER
WELL : 1-9 TEST: 2	GEOLOGIST: RICHARD BELL
ELEVATION: 2423KB	FORMATION: LAN
SECTION : 9	TOWNSHIP : 7S
RANGE : 23W COUNTY: GRAHAM	STATE : KS
GAUGE SN#: 1562 RANGE : 3900	CLOCK : 12 HR.

Input Data

Porosity 0.110 Rw: 0.328 ft h: 4.000 ft  
 qo 23.6 STB GOR 248.0 SCF/STB

Pvt Data  
 Evaluation Pressure : 1360.0  
 Evaluation Temperature: 120.0

Oil Grav 30.00 API	Gas Grav 0.65 API	Pb 1360.00 PSIA
Bo 1.118 RBL/STB	Vis 1.000 cp	Ct 2.0474E-004 1/PSI

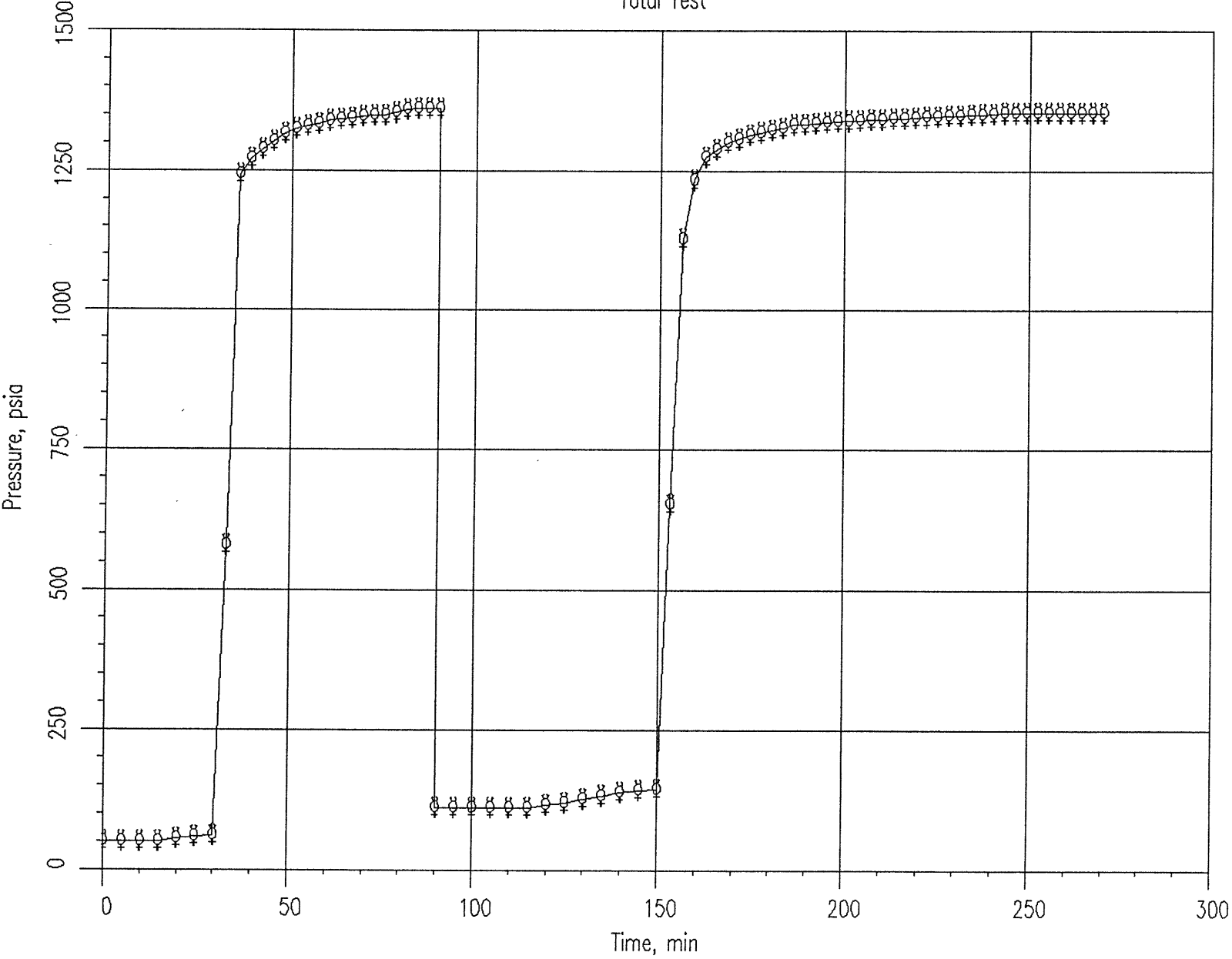
Horner Results

Initial Shut-In Final Shut-In

pseudo pressure time	0.50 hrs	1.00 hrs
slope	-202.08	-106.54
pstar	1396.78 psig	1374.53 psig
plhr	1361.20 psig	1342.46 psig
skin	4.38	9.39
permeability	10.60 md	20.10 md
transmissability	21.19 md-ft/cp	40.20 md-ft/cp
radius of investigation	11.14 ft	21.70 ft
Damage-Ratio	2.1 percent	3.3 percent
Drawdown Factor		0.441 percent
Drawdown P*		1.593 percent

# Profile Plot

Total Test



Russell, Kansas  
 5861, Great Bend, Kansas

15-065-22716-00-00

Phone Plainville 913-434-2812  
 Phone Ness City 913-798-3843

# ALLIED CEMENTING CO., INC.

5551

Home Office P. O. Box 31

Russell, Kansas 67665

NEW

6-15-93

Date 6-14-93	Sec. 9	Twp. 7	Range 23	Called Out 7:15 PM	On Location 8:30 PM	Job Start	Finish 12:15 AM
Lease <u>SEEGA</u>	Well No. 1-9	Location 8 N 2 W 1/4 S Hill			County Graham	State Kan	

Contractor <u>MURFIN DRG #8</u>	
Type Job <u>Surface</u>	
Hole Size <u>12 1/4</u>	T.D. <u>265</u>
Csg. <u>8 1/2</u>	Depth <u>264</u>
Tbg. Size	Depth
Drill Pipe	Depth
Tool	Depth
Cement Left in Csg. <u>15</u>	Shoe Joint
Press Max.	Minimum
Meas Line	Displace
Perf.	

Owner 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	<u>MURFIN DRG. INC.</u>
Street	<u>250 N Water Suite 300</u>
City	<u>Wichita</u> State <u>Kan 67202</u>
The above was done to satisfaction and supervision of owner agent or contractor.	
Purchase Order No.	
X	<u>Blank</u>

### EQUIPMENT

276	No.	Cementor	<u>Bleikam</u>
Pumptrk	<u>Hays</u>	Helper	
280	No.	Cementor	
Pumptrk		Helper	<u>CBATTIN</u>
218		Driver	
Bulktrk		Driver	<u>M Spillien</u>

<b>CEMENT</b>			
Amount Ordered	<u>190 lbs 60/40 3-2</u>		
Consisting of			
Common	<u>114 SKS</u>	<u>575</u>	<u>655.50</u>
Poz. Mix	<u>76 Dbl</u>	<u>300</u>	<u>228.00</u>
Gel.	<u>4</u>	<u>7.00</u>	<u>NK</u>
Chloride	<u>6 Dbl</u>	<u>25.00</u>	<u>150.00</u>
Quickset			
Sales Tax			
Handling	<u>100</u>		<u>190.00</u>
Mileage	<u>46 mi</u>	<u>.04</u>	<u>349.60</u>
Sub Total			<u>1573.10</u>
Total			

### DEPTH of Job

Reference:	<u>Pump Charge</u>	<u>430.00</u>
	<u>2.26 p/m 4 1/2 meter</u>	<u>103.50</u>
	<u>plug</u>	<u>42.00</u>
	Sub Total	<u>575.50</u>
	Tax	
	Total	

### Remarks:

Ran 6 hrs of 8 1/2 pipe set  
 most w/ 190 lb 60/40 3-2  
 pump plug w/ boll water  
 cement did circulate

Floating Equipment

6/29/93

RECEIVED  
 STATE CORPORATION COMMISSION  
 JUN 29 1993

CONSERVATION DIVISION  
 Wichita, Kansas