

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

API NO. 15- 175-21285-0000  
County Seward  
SW - SE - NE Sec. 4 Twp. 32S Rge. 32W  E

ORIGINAL

Operator: License # 30606  
Name: Murfin Drilling Co., Inc.  
Address 250 N. Water, Suite 300

2970 Feet from  N (circle one) Line of Section  
990 Feet from  W (circle one) Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
NE, SE, NW or SW (circle one)

City/State/Zip Wichita, KS 67202

Lease Name Wessler Well # 1-4  
Field Name Unknown

Purchaser: undecided

Producing Formation Morrow

Operator Contact Person: Larry M. Jack

Elevation: Ground 2842 KB 2851

Phone ( ) 267-3241

Total Depth 6000' PBDT 5800

Contractor: Name: BEREDCO, Inc.

Amount of Surface Pipe Set and Cemented at 1660 Feet

License: \_\_\_\_\_

Multiple Stage Cementing Collar Used? \_\_\_\_\_ Yes  No

Wellsite Geologist: Paul Godowic

If yes, show depth set \_\_\_\_\_ Feet

Designate Type of Completion  
 New Well \_\_\_\_\_ Re-Entry \_\_\_\_\_ Workover \_\_\_\_\_

If Alternate II completion, cement circulated from \_\_\_\_\_

Oil \_\_\_\_\_ SWD \_\_\_\_\_ SLOW \_\_\_\_\_ Temp. Abd.  
 Gas \_\_\_\_\_ ENHR \_\_\_\_\_ SIGW \_\_\_\_\_  
\_\_\_\_\_ Dry \_\_\_\_\_ Other (Core, WSW, Expl., Cathodic, etc)

feet depth to \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

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

Drilling Fluid Management Plan DLT / 3-18-93  
(Data must be collected from the Reserve Pit)

Operator: \_\_\_\_\_

Chloride content 4000 ppm Fluid volume 2500 bbls

Well Name: \_\_\_\_\_

Dewatering method used evaporation

Comp. Date \_\_\_\_\_ Old Total Depth 11 1994

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

\_\_\_\_\_ Deepening \_\_\_\_\_ Re-perf. \_\_\_\_\_ Conv. to Inj/SWD

Operator Name RECEIVED 2-24-93

\_\_\_\_\_ Plug Back \_\_\_\_\_  
\_\_\_\_\_ Commingled \_\_\_\_\_ Docket No. \_\_\_\_\_  
\_\_\_\_\_ Dual Completion \_\_\_\_\_ Docket No. \_\_\_\_\_  
\_\_\_\_\_ Other (SWD or Inj?) \_\_\_\_\_ Docket No. \_\_\_\_\_

Lease Name \_\_\_\_\_ License No. \_\_\_\_\_

12/6/92 12/20/92 2/6/93  
Spud Date Date Reached TD Completion Date

2-24-93 Twp. \_\_\_\_\_ S Rng. \_\_\_\_\_ E/W

County Wichita, Kansas 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 Production Manager Date 2/22/93

Subscribed and sworn to before me this 22 day of February, 19 93.

Notary Public Kerran Redington  
Date Commission Expires 2/6/94

KERRAN REDINGTON  
NOTARY PUBLIC  
STATE OF KANSAS  
My Appt. Exp. 2-6-94

K.C.C. OFFICE USE ONLY  
F  Letter of Confidentiality Attached  
C  Wireline Log Received  
C  Geologist Report Received  
Distribution  
 KCC \_\_\_\_\_ SWD/Rep \_\_\_\_\_ NGPA  
 KGS \_\_\_\_\_ Plug \_\_\_\_\_ Other \_\_\_\_\_  
(Specify)

Operator Name Murfin Drilling Co., Inc. Lease Name Wessler Well # 1-4  
 Sec. 4 Twp. 32S Rge. 32W  East County Seward  
 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 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	Geologist report attached.	
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		

List All E.Logs Run: Attached

Drill stem tests data 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	23#	1660	Class A	700	2% cc
Production	7 7/8	5 1/2	15.5#	5986	50/50 Poz	300	10% salt, 3/4% FL28

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
4	5574-79	15000# 20/40 sand, 215370 SCF of N2	5574-79

TUBING RECORD	Size <u>2 3/8</u>	Set At <u>5514</u>	Packer At	Liner Run <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or Inj. Shut in - awaiting gas mrkt 2/6/93 Producing Method  Flowing  Pumping  Gas Lift  Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls. <u>-</u>	Gas Mcf <u>IOF 6290</u>	Water Bbls. <u>-</u>	Gas-Oil Ratio	Gravity
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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 as above

Willie M. Hazzard  
 Baker Road,  
 Tyrone, OK 73951  
 Home Ph. 405-854-6424



**RAT HOLE DRILLING** INC.  
 and  
**HOT SHOT SERVICE**

P.O. BOX 1092  
 LIBERAL, KANSAS 67905-1092

Bus. Ph. 316-624-9466

ID ~~480992407~~  
 ID 48-1120187

INVOICE No. 4015-92  
 Invoice Date: 12-2-92  
 Completed Date: **PUSHER: Stan**  
 Customer Order No.

Ordered By: Delvon Luck  
 Lease and Well No. Wesler #1  
 County: Seward  
 State: Kansas  
 Drilling Company: Beredco  
 Rig No. #7  
 Oil Company: Murfin

To: Murfin Drilling  
 250 N. Water, Suite 300  
 Wichita, Kansas 67202

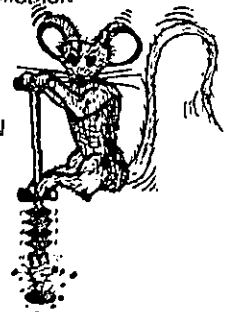
ORIGINAL

Quantity	Description	Price	Amount
40'	30" CONDUCTOR HOLE	\$13.00	\$520.00
40'	20" STEEL PIPE	RELEASED 19.00	760.00
	CELLAR	MAR 1 1 1994	70.00
	RAT & MOUSE HOLES	FROM CONFIDENTIAL	250.00
3.5 yds	6/SACK CONCRETE		334.92
26 mi.	MILEAGE, ONE WAY	FEB 2 2 2.00	52.00
	TAX ON PIPE ONLY	CONFIDENTIAL 6.9%	52.44
			<u>\$2,039.36</u>

RECEIVED  
 STATE CORPORATION COMMISSION

MAR 1 8 1993

CONSERVATION DIVISION  
 Wichita, Kansas



Thank You

We Appreciate Your Business

EMEN P.O. BOX KANSAS 67-

INVOICE ORDER NO - 1er #

At, Kansas  
Great Bend, Kansas

ORIGINAL

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

# ALLIED CEMENTING CO., INC.

2874

Home Office P. O. Box 31

Russell, Kansas 67665

Case	Sec.	Fwp.	Range	Called Out	On Location	Job Start	Finish
2-8-92	4	32	32	6:30 PM	12:00 AM	6:30 AM	8:00 AM
Wessler	Well No. #1-4	Location		Siblette, 125 4E, 125 4S		County	State
						Seward	Ks.

Contractor	Beredco Rig #7
Type Job	Surface
Hole Size	12 1/4" T.D. 11660'
Csg.	8 5/8" Depth 11660'
Tbg. Size	Depth
Drill Pipe	Depth
Tool	Depth
Cement Left in Csg.	37.50' Shoe Joint 37.50'
Press Max.	700# Minimum
Meas Line	Displace 103 bbl
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	Murfine Drilling Co
Street	250 N. Water Suite 300
City	Wichita, State Ks 67202
The above was done to satisfaction and supervision of owner agent or contractor.	
Purchase Order No.	
X	Stewart [Signature]
	CEMENT

**EQUIPMENT**

#	No.	Cementor	
Pumptrk	181	Helper	Tim Cary
Pumptrk		Helper	
Bulktrk	179	Driver	Jack
Bulktrk	214	Driver	Mark

Amount Ordered	550 SKS Lite, 2% CC, 1/4 Flo Seal/SK		
Consisting of	150 SKS COMMON, 2% CC,		
Common	1.50	5.50	825.00
Poz. Mix	5.00	4.50	229.50
Gel.			
Chloride	13	21.00	273.00
Quickset			
	Flo Seal - 138	1.00	138.00
	Handling	7.00	700.00
	Mileage	1.00	2800.00
Total	\$ 9015.00	Sub Total	
	Disc - 1803.00		
	\$ 7212.00	STATE RECEIVED	7031.00

DEPTH of Job		
Reference:	Pumptrk Charge	880.00
	100 Pumptrk Mileage	200.00
	1 8 5/8 Rubber Plug	6.300
	Sub Total	
	Tax	
	Total	1143.00

Floating Equipment	
1-8 5/8 Texas Pattern Guide	220.00
1-8 5/8 Insert	258.00
3-8 5/8 Centralizers	83.00
1-8 5/8 Basket	180.00
	841.00

Remarks: Cement Did Circulate,  
Float Did Hold,

NO WARRANTY ON FLOAT EQUIPMENT

[Signature]

Allied Cementing  
By Tim Dieker

**RELEASED**  
FROM CONFIDENTIAL FEB 22  
CONFIDENTIAL

MAP 18 1993-220.00  
CONSERVATION DIVISION  
Wichita, Kansas

Great Bend, Kansas

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

ORIGINAL

# ALLIED CEMENTING CO., INC.

5863

Home Office P. O. Box 31

Russell, Kansas 67665

New

Date	12-21-92	Sec.	4	Twp.	3.2	Range	3.2	Called Out	6:00 P.m.	On Location	11:30 A.m.	Job Start	12:50 P.m.	Finish	3:00 P.m.
Lease	Wessler	Well No.	1-4	Location	Plains Ks. 13W-1/2N			County	Seward	State	Ks.				

Contractor	Murfin Drlg.		
Type Job	Production Casing		
Hole Size	7 7/8	T.D.	6000
Csg.	5 1/2	Depth	5986' FEB 22
Tbg. Size		Depth	
Drill Pipe	4 1/2 - X Hole	Depth	6000
Tool		Depth	
Cement Left in Csg.		Shoe Joint	43.56
Press Max.	1500	Minimum	350
Meas Line		RELEASED	
Perf.			

Owner Murfin Drlg.  
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 Murfin Drlg.  
Street 250 N. Water Suite 300  
City Wichita State Ks 67202

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

Purchase Order No. X  
*John Swann*  
**CEMENT**

MAR 11 1994  
EQUIPMENT

FROM CONFIDENTIAL

Pumptrk	No.	Cementer	NARY DREILING
		Helper	DEAN SATERN
Pumptrk	234	Cementer	
		Helper	CARL BALDING
		Driver	MAX WOLF
Bulktrk			
Bulktrk		Driver	

Amount Ordered	300 SKS. 50% 150, 10% Salt, 3/4 of 1% FL-28, 2% Gel		
Consisting of			
Common	150	5.50	825.00
Poz. Mix	150	2.50	375.00
Gel.	604	6.75	4080.00
Chloride			
Quikrete	FL-28 189#	8.00*	1512.00
Mud Sweep	200 GAL	1.23	246.00
		Sales Tax	
Handling	300	1.00	300.00
Mileage	1000		1200.00

DEPTH of Job		
Reference:	FRONT RUCK	880.00
1-5 1/2	Top Rubber Plug	450.00
100	PUMP TRUCK MILEAGE	200.00
10-966	DEPTH CHG	69.02
	Sub Total	1194.02
	Tax	
	Total	

8243.52	1194.02	Sub Total	
1648.70	5117.50	REG	
6594.82	1932.00	Tax	
8243.52		Total	

STATE CORPORATION COMMISSION  
APR 18 1993

Remarks: Start mud sweep, start cement  
ement in. Stop pumps. Wash out  
pump and lines. Start Displace  
1/2 Fresh H<sub>2</sub>O. Bump Plug. Release  
SI, Float did hold.

Floating Equipment	(BAKER)	
Req. Guide shoe	-1-125.00	254.00
AFU Insert	-1	189.00
Centerizers	-1	616.00
Stop Collars	-1	13.00
Scratchers	-26-5 Rotating	2150.00
Thread lok	-1	20.00

1932.00

# TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

## Drill-Stem Test Data

Well Name WESSLER #1-4 Test No. 1 Date 12/10/92  
Company MURFIN DRILLING CO INC Zone TOPEKA  
Address 250 N WATER SWT #300 WICHITA KS 67202 Elevation 2851  
Co. Rep./Geo. PAUL GODOWIC Cont. BEREDCO DRLG #7 Est. Ft. of Pay \_\_\_\_\_  
Location: Sec. 4 Twp. 32S Rge. 32W Co. SEWARD State KS

Interval Tested	<u>3842-3880</u>	Drill Pipe Size	<u>4.5" XH</u>
Anchor Length	<u>38</u>	Wt. Pipe I.D. - 2.7 Ft. Run	_____
Top Packer Depth	<u>3837</u>	Drill Collar -- 2.25 Ft. Run	<u>630</u>
Bottom Packer Depth	<u>3842</u>	Mud Wt.	<u>9.1</u> lb/Gal.
Total Depth	<u>3880</u>	Viscosity	<u>46</u> Filtrate <u>9.4</u>

Tool Open @ 12:50 PM Initial Blow WEAK BLOW - BUILT TO BOTTOM OF BUCKET IN 25 MINUTES  
ISI: BLED OFF BLOW - NO BLOW BACK  
Final Blow WEAK BLOW - BUILT TO BOTTOM OF BUCKET IN 47 MINUTES  
FSI: BLED OFF BLOW - NO BLOW BACK

Recovery - Total Feet 690 Flush Tool? NO ORIGINAL

Rec. 690 Feet of SALT WATER **RELEASED**  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_

BHT 108 °F Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
RW 0.45 @ 68 °F Chlorides 17000 ppm Recovery Chlorides 5000 ppm System

(A) Initial Hydrostatic Mud 1877.4 PSI AK1 Recorder No. 13277 Range 4125

(B) First Initial Flow Pressure 30.5 PSI @ (depth) 3845 w/ Clock No. 27594

(C) First Final Flow Pressure 156.9 PSI AK1 Recorder No. 11038 Range 5075

(D) Initial Shut-in Pressure 1019.5 PSI @ (depth) 3877 Range 25814

(E) Second Initial Flow Pressure 207.8 PSI AK1 Recorder No. \_\_\_\_\_ Range \_\_\_\_\_

(F) Second Final Flow Pressure 354.6 PSI @ (depth) \_\_\_\_\_

(G) Final Shut-in Pressure 999.7 PSI Initial Opening 30 Final Flow 60

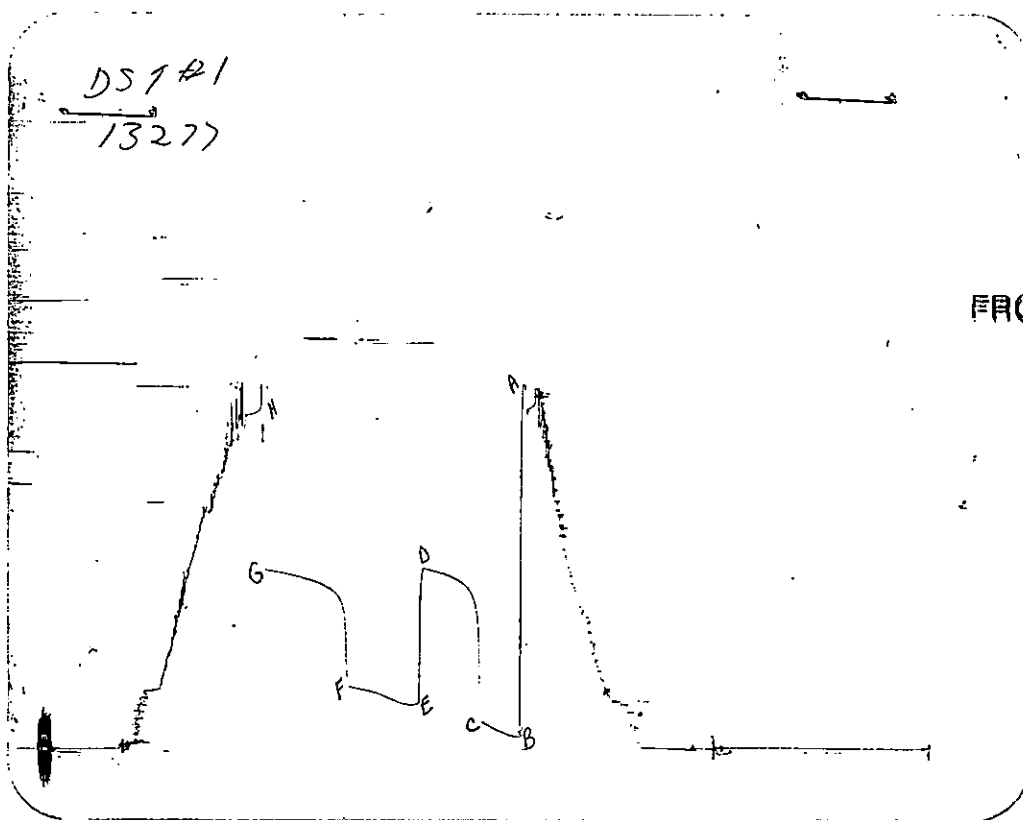
(H) Final Hydrostatic Mud 1780.3 PSI Initial Shut-in 45 Final Shut-in 60

Our Representative TOM HORACEK

**RELEASED**  
MAR 11 1994  
FROM CONFIDENTIAL  
CONFIDENTIAL

RECEIVED  
STATE CORPORATION COMMISSION  
FEB 24 1993  
CONSERVATION DIVISION  
Wichita, Kansas

CHART PAGE



RELEASED

11 1994

FROM CONFIDENTIAL

This is an actual photograph of recorder chart

FEB 22  
CONFIDENTIAL

ORIGINAL

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1864	1877.4
(B) FIRST INITIAL FLOW PRESSURE	27	30.5
(C) FIRST FINAL FLOW PRESSURE	149	156.9
(D) INITIAL CLOSED-IN PRESSURE	1008	1019.5
(E) SECOND INITIAL FLOW PRESSURE	203	207.8
(F) SECOND FINAL FLOW PRESSURE	350	354.6
(G) FINAL CLOSED-IN PRESSURE	995	999.7
(H) FINAL HYDROSTATIC MUD	1776	1780.3

FLUID SAMPLER DATA

Ticket No.: 4958 Date: 12/10/92  
Company: MURFIN DRILLING CO INC  
Lease: WESSLER #1-4 Test No.: 1  
County: SEWARD Sec.: 4 Twp.: 32S Rng.: 32W

SAMPLER RECOVERY

Gas  
Oil  
Mud  
Water 4000  
Other  
Pressure 950  
TOTAL 4000

RELEASED  
MAR 11 1994  
FROM CONFIDENTIAL

PIT MUD ANALYSIS

Chlorides 5000  
Resistivity ohms@ F  
Viscosity 46  
Mud Wt. 9.1  
Filtrate 9.4  
Other

ORIGINAL

FEB 22  
CONFIDENTIAL

SAMPLER ANALYSIS

Resistivity 0.45 ohms@ 68 F  
Chlorides 17000 ppm.  
Gravity corrected @60F

PIPE RECOVERY

TOP

Resistivity 0.47 ohms@ 68 F  
Chlorides 15000 ppm

MIDDLE

Resistivity 0.47 ohms@ 68 F  
Chlorides 15000 ppm

BOTTOM

Resistivity 0.45 ohms@ 68 F  
Chlorides 17000 ppm

RECEIVED  
STATE CORPORATION COMMISSION

FEB 24 1993

CONSERVATION DIVISION  
Wichita, Kansas



# TRILOBITE TESTING COMPANY

P.O. Box 362 - Hays, Kansas 67601

## FLUID SAMPLER DATA

FEB 22

CONFIDENTIAL

Ticket No. 4958 Date 12-10-92  
Company Name Murfin Drlg Inc.  
Lease Wessler # 1-4 Test No. #1  
County Seward Ks. Sec. 4 Twp. 32 Rng. 32

### SAMPLER RECOVERY

Gas \_\_\_\_\_ ML  
Oil \_\_\_\_\_ ML  
Mud \_\_\_\_\_ ML  
Water 4,000 ML  
Other \_\_\_\_\_ ML  
Pressure 950 PSI  
Total 4,000 ML

### PIT MUD ANALYSIS

Chlorides \_\_\_\_\_ ppm.  
Resistivity \_\_\_\_\_ ohms @ \_\_\_\_\_ F  
Viscosity 46 **RELEASED**  
Mud Weight 9.1 **MAR 11 1994**  
Filtrate 9.4  
Other \_\_\_\_\_ **FROM CONFIDENTIAL**

ORIGINAL

### SAMPLER ANALYSIS

Resistivity .45 ohms @ 68 F  
Chlorides 17,000 ppm.  
Gravity \_\_\_\_\_ corrected @ 60 F

### PIPE RECOVERY

TOP  
Resistivity .47 ohms @ 68 F  
Chlorides 15,000 ppm.

MIDDLE  
Resistivity .47 ohms @ 68 F  
Chlorides 15,000 ppm.

BOTTOM  
Resistivity .45 ohms @ 68 F  
Chlorides 17,000 ppm.

# TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

## Test Ticket

FEB 22

No 4958

Well Name & No. Wessler #1-4 Test No. #1 **CONFIDENTIAL** Date 12-10-92  
 Company Murfin Drilling Com Inc. Zone Tested Tapoka  
 Address 250 N. Water, st. 300 Wichita K. 67202 Elevation 2851 KB  
 Co. Rep./Geo. Paul Godovic Cont. Beredco Dels #7 Est. Ft. of Pay \_\_\_\_\_  
 Location: Sec. 4 Twp. 32 Rge. 32 Co. Seward State K.  
 No. of Copies \_\_\_\_\_ Distribution Sheet \_\_\_\_\_ Yes \_\_\_\_\_ No \_\_\_\_\_ Turnkey \_\_\_\_\_ Yes \_\_\_\_\_ No \_\_\_\_\_ Evaluation \_\_\_\_\_

Interval Tested 3842-3880 Drill Pipe Size 4.5 x-Hole  
 Anchor Length 38' Top Choke — 1" \_\_\_\_\_ Bottom Choke — 3/4" \_\_\_\_\_  
 Top Packer Depth 3837 Hole Size — 7 7/8" \_\_\_\_\_ Rubber Size — 6 3/4" \_\_\_\_\_  
 Bottom Packer Depth 3842 Wt. Pipe I.D. — 2.7 Ft. Run \_\_\_\_\_  
 Total Depth 3880 Drill Collar — 2.25 Ft. Run 630'  
 Mud Wt. 9.1 lb/gal. Viscosity 46 Filtrate 9.4

Tool Open @ 12:50 pm Initial Blow wreak blow - built to bottom of bucket 25 min  
LSI - Bled off blow - NO blow back  
 Final Blow wreak blow - built to bottom of bucket in 47 min  
ESI - Bled off blow - NO blow back

ORIGINAL

Recovery — Total Feet 690' Feet of Gas In Pipe \_\_\_\_\_ Flush Tool? NO

Rec.	Feet Of	RELEASED	%gas	%oil	%water	%mud
Rec. <u>690'</u>	Feet Of	<u>salt water 1994</u>	%gas	%oil	%water	%mud
Rec. _____	Feet Of	<b>FROM CONFIDENTIAL</b>	%gas	%oil	%water	%mud
Rec. _____	Feet Of		%gas	%oil	%water	%mud

BHT 108 °F Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
 RW .45 @ 68 °F Chlorides 17,000 ppm Recovery Chlorides 5,000 ppm System

(A) Initial Hydrostatic Mud 1864 PSI AK1 Recorder No. 13277 Range 4125  
 (B) First Initial Flow Pressure 27 PSI @ (depth) 3845 w/Clock No. 27594  
 (C) First Final Flow Pressure 149 PSI AK1 Recorder No. 11038 Range 5075  
 (D) Initial Shut-In Pressure 1008 PSI @ (depth) 3877 w/Clock No. 25814  
 (E) Second Initial Flow Pressure 203 PSI AK1 Recorder No. \_\_\_\_\_ Range \_\_\_\_\_  
 (F) Second Final Flow Pressure 350 PSI @ (depth) \_\_\_\_\_ w/Clock No. \_\_\_\_\_  
 (G) Final Shut-In Pressure 995 PSI Initial Opening 30 Test X 600  
 (H) Final Hydrostatic Mud 1776 PSI Initial Shut-In 45 Jars X 200

TRILOBITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Final Flow 60 STATE COMMISSION Safety Joint X 50  
 Final Shut-In 60 Straddle \_\_\_\_\_  
 Arc. Sub \_\_\_\_\_

FEB 24 1993

Approved By Paul F. Godovic CONSERVATION DIVISION  
 Our Representative Tom Horacek Wichita, Kansas  
 Sampler X 200  
 Extra Packer \_\_\_\_\_  
 Other \_\_\_\_\_

# TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

FEB 22  
CONFIDENTIAL

## Drill-Stem Test Data

Well Name WESSLER #1-4 Test No. 2 Date 12/12/92  
 Company MURFIN DRILLING CO INC Zone LANSING  
 Address 250 N WATER SWT #300 WICHITA KS 67202 Elevation 2851  
 Co. Rep./Geo. PAUL GODOWIC Cont. BEREDCO DRLG #7 Est. Ft. of Pay \_\_\_\_\_  
 Location: Sec. 4 Twp. 32S Rge. 32W Co. SEWARD State KS

Interval Tested 4338-4362 Drill Pipe Size 4.5" XH  
 Anchor Length 24 Wt. Pipe I.D. - 2.7 Ft. Run \_\_\_\_\_  
 Top Packer Depth 4333 Drill Collar - 2.25 Ft. Run 630  
 Bottom Packer Depth 4338 Mud Wt. 9.2 lb/Gal.  
 Total Depth 4362 Viscosity 46 Filtrate 9.8

Tool Open @ 2:25 AM Initial Blow WEAK SURFACE BLOW - BUILT TO 2" **RELEASED**

Final Blow VERY WEAK BLOW THROUGHOUT/(1/4") MAR 11 1994

FROM CONFIDENTIAL

Recovery - Total Feet 150 Flush Tool? NO

Rec. 60 Feet of GAS CUT DRILLING MUD-10%GAS/90%MUD  
 Rec. 90 Feet of MUDDY WATER-70%WTR/30%MUD  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_

ORIGINAL

BHT 118 °F Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
 RW 0.6 @ 60 °F Chlorides 14000 ppm Recovery Chlorides 6000 ppm System

(A) Initial Hydrostatic Mud 2066.3 PSI AK1 Recorder No. 13277 Range 4125

(B) First Initial Flow Pressure 33.4 PSI @ (depth) 4341 w/ Clock No. 27594

(C) First Final Flow Pressure 35.9 PSI AK1 Recorder No. 11038 Range 5075

(D) Initial Shut-in Pressure 1225.7 PSI @ (depth) 4354 w/ Clock No. 25814

(E) Second Initial Flow Pressure 70.8 PSI AK1 Recorder No. \_\_\_\_\_ Range \_\_\_\_\_

(F) Second Final Flow Pressure 104.5 PSI @ (depth) \_\_\_\_\_ w/ Clock No. \_\_\_\_\_

(G) Final Shut-in Pressure 1050.6 PSI Initial Opening 30 Final Flow 60

(H) Final Hydrostatic Mud 2025.8 PSI Initial Shut-in \_\_\_\_\_ Final Shut-in 60

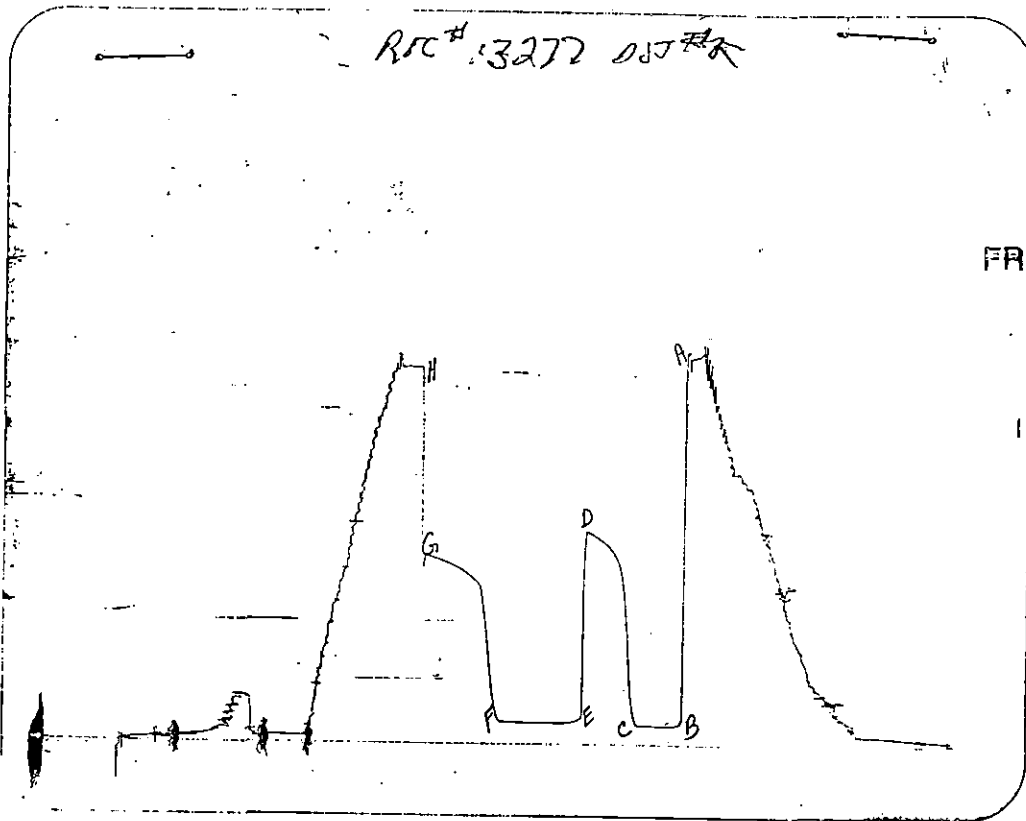
Our Representative TOM HORACEK

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CHART PAGE



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This is an actual photograph of recorder chart

ORIGINAL

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2055	2066.3
(B) FIRST INITIAL FLOW PRESSURE	27	33.4
(C) FIRST FINAL FLOW PRESSURE	32	35.9
(D) INITIAL CLOSED-IN PRESSURE	1222	1225.7
(E) SECOND INITIAL FLOW PRESSURE	68	70.8
(F) SECOND FINAL FLOW PRESSURE	96	104.5
(G) FINAL CLOSED-IN PRESSURE	1046	1050.6
(H) FINAL HYDROSTATIC MUD	2022	2025.8

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FLUID SAMPLER DATA

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FROM CONFIDENTIAL

Ticket No.: 4959

Date: 12/12/92

Company: MURFIN DRILLING CO INC

Lease: WESSLER #1-4

Test No.: 2

County: SEWARD

Sec.: 4

Twp.: 32S

Rng.: 32W

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SAMPLER RECOVERY

Gas 400

Oil TRACE

Mud 300

Water 3300

Other 1 cu ft gas

Pressure 50

TOTAL 4000

PIT MUD ANALYSIS

Chlorides 6000

Resistivity ohms@ F

Viscosity 46

Mud Wt. 9.2

Filtrate 9.8

Other

ORIGINAL

SAMPLER ANALYSIS

Resistivity 0.6 ohms@ 60 F

Chlorides 14000 ppm.

Gravity 43 corrected @60F

PIPE RECOVERY

TOP

Resistivity ohms@ F

Chlorides ppm

MIDDLE

Resistivity ohms@ F

Chlorides ppm

BOTTOM

Resistivity ohms@ F

Chlorides ppm

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# TRILOBITE TESTING COMPANY

P.O. Box 362 - Hays, Kansas 67601

## FLUID SAMPLER DATA

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Ticket No. 4959 Date 12-12-92  
Company Name Murfin Drlg Com. Inc.  
Lease Wessler #1-4 Test No. #2  
County Seward Ks. Sec. 4 Twp. 32 Rng. 32

### SAMPLER RECOVERY

### PIT MUD ANALYSIS

Gas 400 ML  
Oil TRACE ML  
Mud 300 ML  
Water 3300 ML  
Other 1 CBFT. GAS ML  
Pressure 50 PSI  
Total 4600 ML

Chlorides 6,500 ppm.  
Resistivity \_\_\_\_\_ ohms @ \_\_\_\_\_ F  
Viscosity 46  
Mud Weight 9.2  
Filtrate ~~\_\_\_\_\_~~ **RELEASED**  
Other \_\_\_\_\_ **MAR 11 1994**  
Other \_\_\_\_\_ **FROM CONFIDENTIAL**

### SAMPLER ANALYSIS

### PIPE RECOVERY

Resistivity 16 ohms @ 60 F  
Chlorides ~~\_\_\_\_\_~~ 14,000 ppm.  
Gravity \_\_\_\_\_ corrected @ 60 F

TOP  
Resistivity \_\_\_\_\_ ohms @ \_\_\_\_\_ F  
Chlorides \_\_\_\_\_ ppm.

MIDDLE  
Resistivity \_\_\_\_\_ ohms @ \_\_\_\_\_ F  
Chlorides \_\_\_\_\_ ppm.

BOTTOM  
Resistivity \_\_\_\_\_ ohms @ \_\_\_\_\_ F  
Chlorides \_\_\_\_\_ ppm.

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Wichita, Kansas

ORIGINAL

# TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

## Test Ticket

FEB 22 No 4959

**CONFIDENTIAL**

Well Name & No. Wessler #1-4 Test No. #2 Date 12-12-92  
 Company Murkin Dols. Com. Inc. Zone Tested Lansing  
 Address 250 N. Water St. 300 Wichita, Ks. 67202 Elevation 2851 (KB)  
 Co. Rep./Geo. Paul Godawic cont. Beredco Dols #7 Est. Ft. of Pay \_\_\_\_\_  
 Location: Sec. 4 Twp. 32 Rge. 32 Co. Secord State Ks.  
 No. of Copies \_\_\_\_\_ Distribution Sheet \_\_\_\_\_ Yes X No Turnkey \_\_\_\_\_ Yes X No \_\_\_\_\_ Evaluation \_\_\_\_\_

Interval Tested 4338-4362 Drill Pipe Size 4.5 x-Hole  
 Anchor Length 24' Top Choke — 1" \_\_\_\_\_ Bottom Choke — 3/4" \_\_\_\_\_  
 Top Packer Depth 4333 Hole Size — 7 1/8" \_\_\_\_\_ Rubber Size — 6 3/4" \_\_\_\_\_  
 Bottom Packer Depth 4338 Wt. Pipe I.D. — 2.7 Ft. Run \_\_\_\_\_  
 Total Depth 4362 Drill Collar — 2.25 Ft. Run 630'  
 Mud Wt. 9.2 lb/gal. Viscosity 46 Filtrate 9.8  
 Tool Open @ 2:25 AM Initial Blow weak surface blow - built to 2 in.

Final Blow VERY WEAK BLOW THROUGHOUT (1/4") ORIGINAL

Recovery — Total Feet	Feet of Gas In Pipe	Flush Tool?
<u>150</u>	<u>120'</u>	<u>NO</u>
Rec. <u>60</u> Feet Of <u>DRILLING MUD GAS</u>	%gas	%oil
Rec. <u>90</u> Feet Of <u>MUD &amp; WATER</u>	%gas	%oil
Rec. _____ Feet Of <u>RELEASED</u>	%gas	%oil
Rec. _____ Feet Of _____	%gas	%oil
Rec. _____ Feet Of <u>MAR 11 1994</u>	%gas	%oil

BHT 118 °F Gravity \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
 RW 6 @ 60 °F Chlorides \_\_\_\_\_ ppm Recovery Chlorides 6,000 ppm System

(A) Initial Hydrostatic Mud 2055 PSI AK1 Recorder No. 13277 Range 4125  
 (B) First Initial Flow Pressure 27 PSI @ (depth) 4341 w/Clock No. 27594  
 (C) First Final Flow Pressure 32 PSI AK1 Recorder No. 11038 Range 5075  
 (D) Initial Shut-In Pressure 1222 PSI @ (depth) 4354 w/Clock No. 25814  
 (E) Second Initial Flow Pressure 68 PSI AK1 Recorder No. \_\_\_\_\_ Range \_\_\_\_\_  
 (F) Second Final Flow Pressure 96 PSI @ (depth) \_\_\_\_\_ w/Clock No. \_\_\_\_\_  
 (G) Final Shut-In Pressure 1046 PSI Initial Opening 30 Test X 600  
 (H) Final Hydrostatic Mud 2022 PSI Initial Shut-In 45 Jars X 200

TRILOBITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Approved By Paul F. Godawic  
 Our Representative Tom Horack  
 Final Flow 60 Safety Joint X 50  
 Final Shut-In 45 STATE CORPORATION REGISTRATION

FEB 24 1993

CONSERVATION DEPARTMENT  
 Wichita, Kansas  
 Other \_\_\_\_\_

# TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

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## Drill-Stem Test Data

Well Name WESSLER #1-4 Test No. 3 Date 12/13/92  
 Company MURFIN DRILLING CO INC Zone LANSING  
 Address 250 N WATER SWT #300 WICHITA KS 67202 Elevation 2851  
 Co. Rep./Geo. PAUL GODOWIC Cont. BEREDCO DRLG #7 Est. Ft. of Pay 11  
 Location: Sec. 4 Twp. 32S Rge. 32W Co. SEWARD State KS

Interval Tested 4814-4870 Drill Pipe Size 4.5" XH  
 Anchor Length 56 Wt. Pipe I.D. - 2.7 Ft. Run \_\_\_\_\_  
 Top Packer Depth 4809 Drill Collar - 2.25 Ft. Run 630  
 Bottom Packer Depth 4814 Mud Wt. 9 lb/Gal.  
 Total Depth 4870 Viscosity 45 Filtrate 8.8

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Tool Open @ 4:55 PM Initial Blow STRONG BLOW BOTTOM OF BUCKET IN 30 SECONDS/GAS TO SURFACE IN 20 MINUTES-SEE GAS VOLUME REPORT  
 Final Blow STRONG BLOW - GAS TO SURFACE THROUGHOUT/WEAK BLOW BACK DURING THE SHUT IN PERIODS

Recovery - Total Feet 1370 Flush Tool? NO

ORIGINAL

Rec. 60 Feet of SLTLY OIL CUT GSY MUD-30%GAS/10%OIL/60%MUD  
 Rec. 120 Feet of HVY OIL CUT GSY MUD-30%GAS/30%OIL/40%MUD  
 Rec. 560 Feet of GASSY OIL-25%GAS/75%OIL  
 Rec. 90 Feet of WTR & GAS CUT OIL-20%GAS/60%OIL/20%WTR  
 Rec. 540 Feet of GSY WATER WITH OIL SCUM-25%GAS/75%WTR

BHT 130 °F Gravity 43 °API @ 60 °F Corrected Gravity 43 °API  
 RW 0.24 @ 54 °F Chlorides 38000 ppm Recovery Chlorides 5500 ppm System

(A) Initial Hydrostatic Mud 2272.6 PSI AK1 Recorder No. 13277 Range 4125

(B) First Initial Flow Pressure 174.0 PSI @ (depth) 4812 w / Clock No. 27594

(C) First Final Flow Pressure 275.8 PSI AK1 Recorder No. 11038 Range 5075

(D) Initial Shut-in Pressure 1461.4 PSI @ (depth) 4867 w / Clock No. 25814

(E) Second Initial Flow Pressure 406.9 PSI AK1 Recorder No. \_\_\_\_\_ Range \_\_\_\_\_

(F) Second Final Flow Pressure 505.2 PSI @ (depth) \_\_\_\_\_ w / Clock No. \_\_\_\_\_

(G) Final Shut-in Pressure 1427.4 PSI Initial Opening 30 Final Flow 60

(H) Final Hydrostatic Mud 2256.0 PSI Initial Shut-in 60 Final Shut-in 90

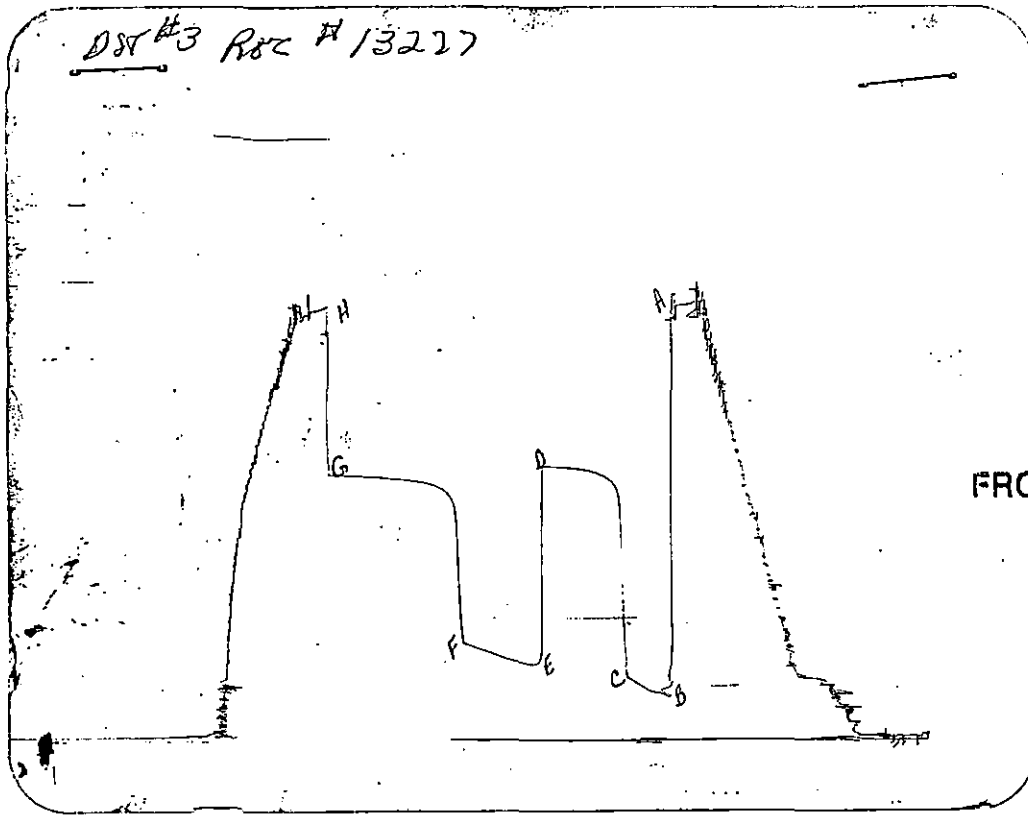
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Our Representative JOHN RIEDL



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This is an actual photograph of recorder chart

ORIGINAL

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2272	2272.6
(B) FIRST INITIAL FLOW PRESSURE	149	174
(C) FIRST FINAL FLOW PRESSURE	283	275.8
(D) INITIAL CLOSED-IN PRESSURE	1436	1461.4
(E) SECOND INITIAL FLOW PRESSURE	333	406.9
(F) SECOND FINAL FLOW PRESSURE	507	505.2
(G) FINAL CLOSED-IN PRESSURE	1411	1427.4
(H) FINAL HYDROSTATIC MUD	2256	2256

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Wichita, Kansas

COMPUTER EVALUATION BY TRILOBITE TESTING, L.L.C.

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MURFIN DRILLING CO INC WESSLER #1-4

DST 3

4 32S 32W SEWARD KS

\*\*\*\*\*  
 ELEVATION: 2851 KB EST. PAY 11 FT **RELEASED**  
 DATUM: -2017 ZONE TESTED: LANSING **MAR 11 1994**  
 TEST INTERVAL: 4814-4870 TIME INTERVALS: 30-60-60-90  
 RECORDER DEPTH: 4867 VISCOSITY: 1.261 CP  
 BOTTOM HOLE TEMP: 130 HOLE SIZE: 7.875 IN **FROM CONFIDENTIAL**  
 \*\*\*\*\*  
 CUBIC FEET OF GAS IN PIPE: 2143.75  
 TOTAL FEET OF RECOVERY: 1370.00 CORRECTED PIPE FILLUP: 1439.316  
 TOTAL BARRELS OF RECOVERY: 13.60 CORR. BARRELS OF RECOVERY: 14.585 BBL  
 BARRELS IN DRILL PIPE: 10.52 API GRAVITY: 43  
 BARRELS IN WEIGHT PIPE: 0.00 FLUID GRADIENT: 0.351  
 BARRELS IN DRILL COLLARS: 3.08 **ORIGINAL**  
 GAS OIL RATIO: 157.5881 CU.FT/BBL  
 BUBBLE POINT PRESSURE: 701.192  
 UNCORRECTED INITIAL PRODUCTION: 217.66 BBL  
 INITIAL PRODUCTION CORRECTED TO FINAL FLOW PRESSURE: 233.35 BBL/DAY  
 INITIAL PRODUCTION CORRECTED TO PSEUDO STEADY FLOW STATE: 162.687  
 \*\*\*\*\*  
 INITIAL SLOPE 108.64 PSI/CYCLE FINAL SLOPE 179.49 PSI/CYCLE  
 INITIAL P\* 1481 PSI FINAL P\* 1480 PSI  
 \*\*\*\*\*  
 TRANSMISSIBILITY 211.40 (MD.-FT./CP.)  
 PERMEABILITY 24.23 (MD.)  
 INDICATED FLOW CAPACITY 266.51 (MD.FT)  
 PRODUCTIVITY INDEX 0.24 (BARRELS/DAY/PSI)  
 DAMAGE RATIO 0.99  
 RADIUS OF INVESTIGATION 46.70 (FT.)  
 POTENTIOMETRIC SURFACE 1416.50 (FT.)  
 DRAWDOWN FACTOR 0.025 (%)

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Wichita, Kansas

FEB 2 2

CALCULATED RECOVERY ANALYSIS

CONFIDENTIAL

DST #

3

TICKET #

4961

SAMPLE #	TOTAL FEET	GAS		OIL		WATER		MUD	
		%	FEET	%	FEET	%	FEET	%	FEET
DRILL 1	60	30	18	10	6	10	6	60	36
PIPE 2	120	30	36	30	36		0	40	48
3	560	25	140	75	420		0		0
4			0		0		0		0
5			0		0		0		0
6			0		0		0		0
WEIGHT 1			0		0		0		0
PIPE 2			0		0		0		0
3			0		0		0		0
4			0		0		0		0
DRILL 1	90	20	18	60	54	20	18		0
COLLAR 2	540	25	135		0	75	405		0
3			0		0		0		0
4			0		0		0		0
5			0		0		0		0
TOTAL	1370		347		516		429		84

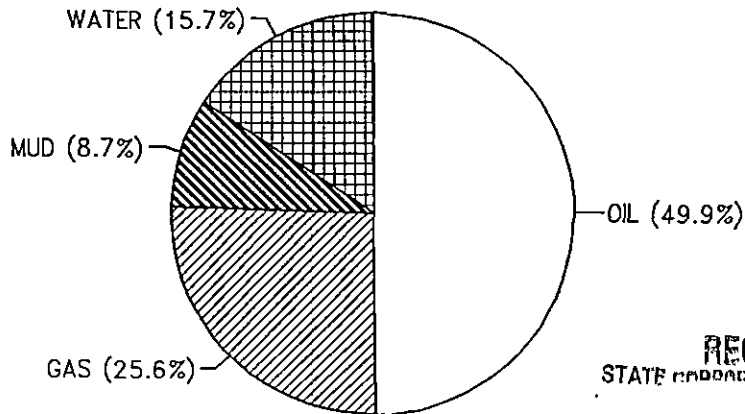
		HRS OPEN	BBL/DAY
BBL OIL=	6.8337 *	1.5	109.3392
BBL WATER=	2.15379 *		34.46064
BBL MUD=	1.19448		
BBL GAS =	3.50685		

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MAR 1 1 1994

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FEB 2 4 1993

CONSERVATION DIVISION Wichita, Kansas

FINAL FLOW

FEB 22  
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RECORDER # 11038

DST # 3

TIME(MIN)	PRESSURE	<> PRESSURE
0	406.9	406.9
3	364.7	-42.2
6	363.4	-1.3
9	368.6	5.2
12	373.9	5.3
15	385.8	11.9
18	389.7	3.9
21	399	9.3
24	404.2	5.2
27	413.4	9.2
30	425.3	11.9
33	431.9	6.6
36	439.7	7.8
39	447.6	7.9
42	452.9	5.3
45	463.4	10.5
48	469.9	6.5
51	475.1	5.2
54	485.6	10.5
57	494.8	9.2
60	505.2	10.4

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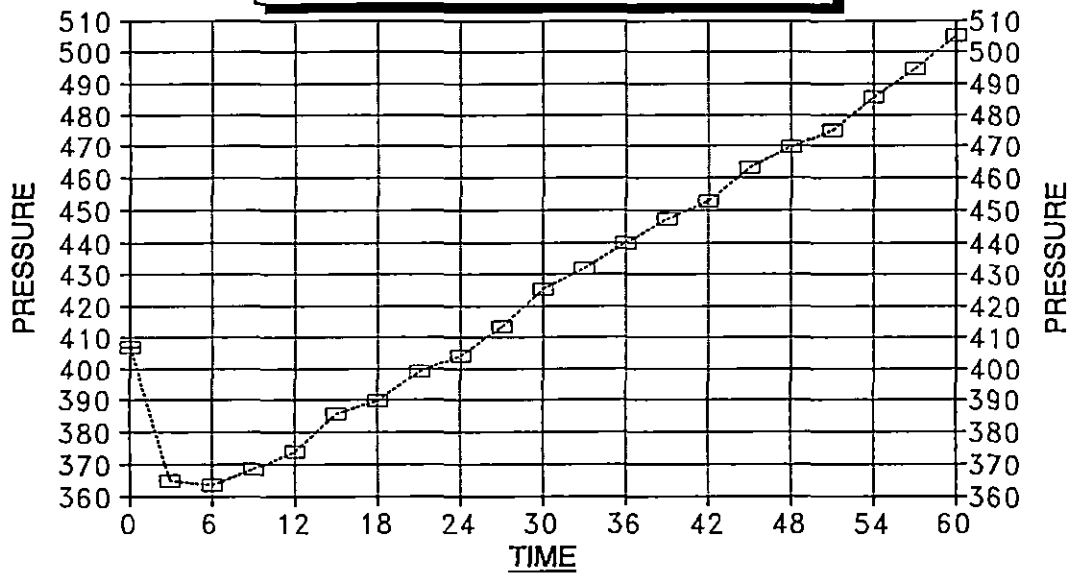
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Wichita, Kansas

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# DELTA T DELTA P

FINAL FLOW - DST #3



--□-- WESSLER #1-4

ORIGINAL

INITIAL PRODUCTION CORRECTED TO PSEUDO STEADY FLOW STATE:

162.687

RELEASED

MAR 11 1994

FROM CONFIDENTIAL

WESSLER #1-4 DST #3  
INITIAL SHUTIN

30 TOTAL FLOW TIME Slope 108.64 psi/cycle  
P \* 1481 psi

TIME(MIN)	Pws (psi)	Log Horn T	<> PRESSURE	Horn T
3	757.3	1.041	757.3	11
6	1257.7	0.778	500.4	6
9	1388.5	0.637	130.8	4
12	1413.5	0.544	25.0	4
15	1436.2	0.477	22.7	3
18	1438.7	0.426	2.5	3
21	1441.2	0.385	2.5	2
24	1442.0	0.352	0.8	2
27	1446.2	0.325	4.2	2
30	1448.8	0.301	2.6	2
33	1450.0	0.281	1.2	2
36	1451.3	0.263	1.3	2
39	1452.5	0.248	1.2	2
X 42	1455.1	0.234	2.6	2
45	1457.6	0.222	2.5	2
48	1460.1	0.211	2.5	2
51	1461.4	0.201	1.3	2
54	1461.4	0.192	0.0	2
57	1461.4	0.184	0.0	2
X 60	1461.4	0.176	0.0	2

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Wichita, Kansas

WESSLER #1-4 DST #3  
FINAL SHUTIN

90 TOTAL FLOW TIME

Slope 179.49 psi/cycle  
P\* 1480 psi

	Pws (psi)	Horn T	Log <> PRESSURE	Horn T	
	3	1005.6	1.491	1005.6	31
	6	1147.0	1.204	141.4	16
	9	1308.0	1.041	161.0	11
	12	1339.5	0.929	31.5	9
	15	1360.8	0.845	21.3	7
	18	1369.6	0.778	8.8	6
	21	1380.9	0.723	11.3	5
	24	1384.7	0.677	3.8	5
	27	1388.5	0.637	3.8	4
	30	1391.0	0.602	2.5	4
	33	1393.5	0.571	2.5	4
	36	1396.5	0.544	3.0	4
	39	1399.8	0.520	3.3	3
	42	1401.0	0.497	1.2	3
	45	1403.5	0.477	2.5	3
	48	1406.0	0.459	2.5	3
	51	1407.3	0.442	1.3	3
	54	1408.5	0.426	1.2	3
	57	1412.3	0.411	3.8	3
	60	1413.5	0.398	1.2	3
	63	1414.8	0.385	1.3	2
	66	1416.1	0.374	1.3	2
	69	1417.3	0.363	1.2	2
	72	1418.6	0.352	1.3	2
	75	1419.8	0.342	1.2	2
	78	1421.1	0.333	1.3	2
	81	1422.3	0.325	1.2	2
	84	1423.6	0.316	1.3	2
X	87	1424.8	0.308	1.2	2
	90	1426.1	0.301	1.3	2
X	93	1427.4	0.294	1.3	2

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ORIGINAL

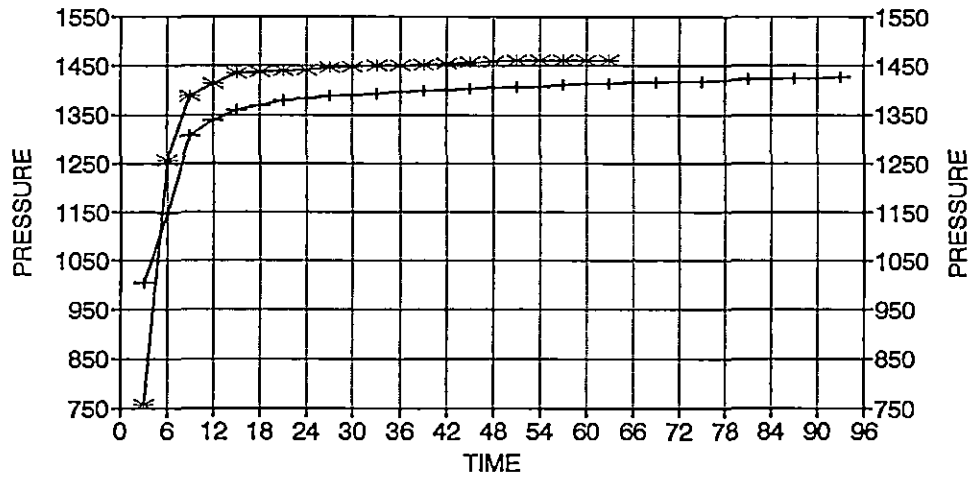
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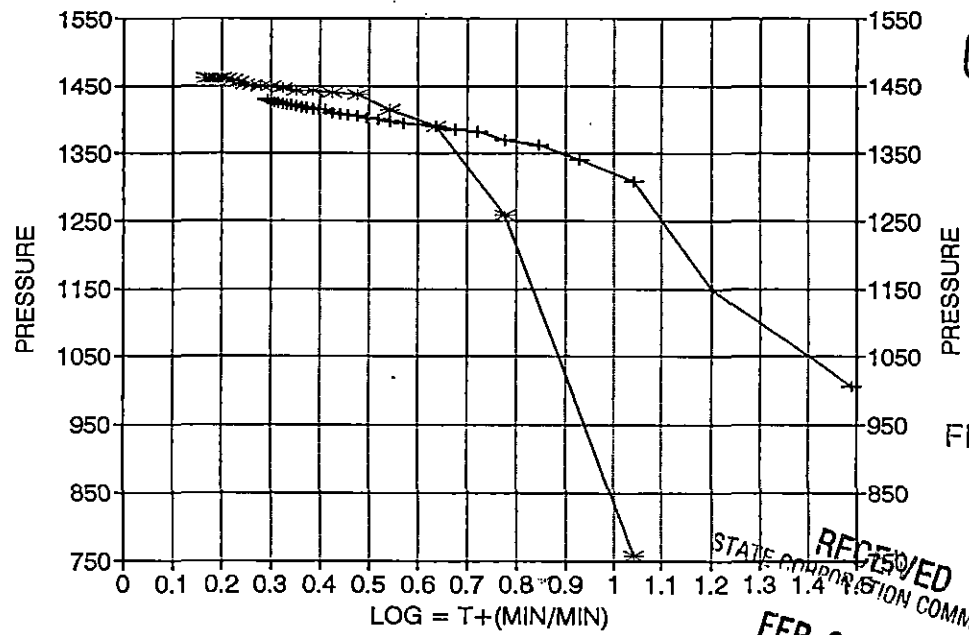
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### WESSLER #1-4 / DST #3 DELTA T DELTA P



→\*← INITIAL    + FINAL

### HORNER PLOT



ORIGINAL

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Wichita, Kansas



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Ticket No.: 4961 Date: 12/12/92  
Company: MURFIN DRILLING CO INC  
Lease: WESSLER #1-4 Test No.: 3  
County: SEWARD Sec.: 4 Twp.: 32S Rng.: 32W

SAMPLER RECOVERY

Gas 700  
Oil 1900  
Mud 0  
Water 1400  
Other .5 cu ft gas  
Pressure 1380  
TOTAL 4000

PIT MUD ANALYSIS

Chlorides 5500  
Resistivity ohms@  
Viscosity 45  
Mud Wt. 9  
Filtrate 8.8  
Other

RELEASED

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FROM CONFIDENTIAL

ORIGINAL

SAMPLER ANALYSIS

Resistivity 0.25 ohms@ 52 F  
Chlorides 40000 ppm.  
Gravity 43 corrected @60F

PIPE RECOVERY

TOP

Resistivity ohms@ F  
Chlorides ppm

MIDDLE

Resistivity 0.24 ohms@ 54 F  
Chlorides 38000 ppm

BOTTOM

Resistivity 0.24 ohms@ 54 F  
Chlorides 38000 ppm

AL

GAS VOLUME REPORT

MURFIN DRILLING CO INC

WESSLER #1-4

FEB 2 2  
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DST # 3

MIN	INCHES	ORIFICE	MCF/D	MIN	INCHES	ORIFICE	MCF/D
TOOL OPEN 4:55 PM				2nd OPEN 6:25 PM			
20	26	0.5	31.9	10	14	0.5	23.7
30	26	0.5	31.9	15	26	0.5	31.9
				20	20	0.5	28
				25	24	0.5	30.7
				30	22	0.5	29.4
				35	24	0.5	30.7
				40	24	0.5	30.7
				45	26	0.5	31.9
				50	26	0.5	31.9
				55	30	0.5	34.3
				60	30	0.5	34.3

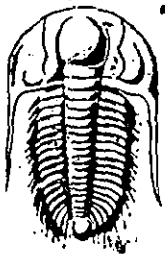
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Remarks:



# TRILOBITE TESTING

P.O. Box 362 • Hays, Kansas 67601 • (913) 625-4778

FEB 22

CONFIDENTIAL

## GAS VOLUME REPORT

MURFIN DRILL CO INC  
OPERATOR

WBSS LOTS # 1-4  
WELL NAME AND NO.

3  
DST NO.

TOOL OPEN 4:55 P.M.

2ND OPEN 6:25 P.M.

Min.	Inch. of Water PSID	Orifice Size	MCF/D	Min.	Inch. of Water PSID	Orifice Size	MCF/D
20	26	1/2"	30.9	10	14	1/2"	23.7
30	26	1/2"	30.9	15	26	"	30.9
				20	20	"	28.0
				25	24	"	30.7
				30	22	"	29.4
				35	24	"	30.7
				40	24	"	30.7
				45	26	"	31.9
				50	26	"	31.9
				55	30	"	34.3
				60	30	"	34.3

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Wichita, Kansas

Remarks:

# TRILOBITE TESTING COMPANY

P.O. Box 362 - Hays, Kansas 67601

## FLUID SAMPLER DATA

FEB 22

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Ticket No. 4961 Date 12/12/92  
Company Name MURFIN  
Lease WESSLER 1-4 Test No. 3  
County SEWARD Sec. 4 Twp. 32S Rng. 32W

### SAMPLER RECOVERY

Gas 700 ML  
Oil 1900 ML  
Mud 0 ML  
Water 1400 ML  
Other .5 CU FT GAS ML  
Pressure 1380 PSI  
Total 7008 ML

### PIT MUD ANALYSIS

Chlorides 5,500 ppm.  
Resistivity \_\_\_\_\_ ohms @ \_\_\_\_\_ F  
Viscosity 45  
Mud Weight 9.0  
Filtrate 8.8  
Other \_\_\_\_\_

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### SAMPLER ANALYSIS

Resistivity 250 ohms @ 52° F  
Chlorides 40,000 ppm.  
Gravity 43 corrected @ 60 F

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TOP  
Resistivity \_\_\_\_\_ ohms @ \_\_\_\_\_ F  
Chlorides \_\_\_\_\_ ppm.  
Wichita, Kansas

MIDDLE  
Resistivity 240 ohms @ 54 F  
Chlorides 38,000 ppm.

BOTTOM  
Resistivity 240 ohms @ 54 F  
Chlorides 38,000 ppm.

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# TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

## Test Ticket

FEB 22

No 4961

**CONFIDENTIAL**

Well Name & No. WBSLHR #1-4 Test No. 3 Date 12-13-92  
 Company MURFIN DRILLING CO. INC Zone Tested LANSING  
 Address 250 N WATSON SUITE 300 WICHITA KS 67202 Elevation 2851 K.B  
 Co. Rep./Geo. PAUL GODOWNIC Cont. BERNICO INC Est. Ft. of Pay \_\_\_\_\_  
 Location: Sec. 4 Twp. 32S Rge. 32W Co. SEWARD State KS  
 No. of Copies \_\_\_\_\_ Distribution Sheet \_\_\_\_\_ Yes \_\_\_\_\_  Turnkey \_\_\_\_\_ Yes \_\_\_\_\_  Evaluation \_\_\_\_\_

Interval Tested 4814-4870 Drill Pipe Size 4 1/2 XH  
 Anchor Length ~~56~~ 56 FT Top Choke — 1" Bottom Choke — 3/4"  
 Top Packer Depth 4809 Hole Size — 7 7/8" Rubber Size — 6 3/4"  
 Bottom Packer Depth 4814 Wt. Pipe I.D. — 2.7 Ft. Run 0  
 Total Depth 4870 Drill Collar — 2.25 Ft. Run 630 FT  
 Mud Wt. 9.0 lb/gal. Viscosity 45 Filtrate 8.8

Tool Open @ 4:55 P.M. Initial Blow STRONG BLOW ROB IN 2 MINUTES - GAS TO SURFACE  
IN 20 MINUTES - SEE GAS VOLUME REPORT

Final Blow STRONG BLOW - GAS TO SURFACE THROUGHOUT  
WEAK BLOWBACKS DURING THE SHUT-IN PERIODS ORIGINAL

Recovery — Total Feet	Feet of Gas In Pipe	Flush Tool?
Rec. <u>60</u>	Feet Of <u>SLOW CUT GASSY MUD</u>	<u>30% gas 10% oil %water 60% mud</u>
Rec. <u>120</u>	Feet Of <u>HV OIL CUT GASSY MUD</u>	<u>30% gas 30% oil %water 40% mud</u>
Rec. <u>560</u>	Feet Of <u>GASSY OIL</u>	<u>25% gas 75% oil %water %mud</u>
Rec. <u>90</u>	Feet Of <u>WATER + GAS CUT OIL</u>	<u>20% gas 60% oil 20% water %mud</u>
Rec. <u>540</u>	Feet Of <u>GASSY WATER W OIL SCUM</u>	<u>25% gas %oil 75% water %mud</u>

BHT 130° °F Gravity 43 °API @ 60 °F Corrected Gravity 43 °API  
 RW 240 @ 54 °F Chlorides 38,000 ppm Recovery Chlorides 5,500 ppm System

(A) Initial Hydrostatic Mud 21274 2272 PSI Ak1 Recorder No. 13277 Range 4125  
 (B) First Initial Flow Pressure 297 149 PSI @ (depth) 4812 w/Clock No. 22594  
 (C) First Final Flow Pressure 429 283 PSI AK1 Recorder No. (11838) Range 5025  
 (D) Initial Shut-In Pressure 1816 1436 PSI @ (depth) 4867 w/Clock No. 25814  
 (E) Second Initial Flow Pressure 5133 333 PSI AK1 Recorder No. --- Range ---  
 (F) Second Final Flow Pressure 626 507 PSI @ (depth) --- w/Clock No. ---  
 (G) Final Shut-In Pressure 11276 1411 PSI Initial Opening 30 Test ✓ 600  
 (H) Final Hydrostatic Mud 2851 2256 PSI Initial Shut-In 60 Jars ✓ 2000

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Final Flow 60 Safety Joint ✓ 50  
 Final Shut-In 90 Straddle \_\_\_\_\_  
 Circ. Sub \_\_\_\_\_  
 Sampler ✓ 2000  
 Extra Packer \_\_\_\_\_

Approved By Paul Godownic  
 Our Representative John Reed

MAR 11 1994

FROM CONFIDENTIAL Other \_\_\_\_\_

# TRILOBITE TESTING, L.L.C.

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FEB 22

## Drill-Stem Test Data

CONFIDENTIAL

Well Name WESSLER #1-4 Test No. 4 Date 12/16/92  
 Company MURFIN DRILLING CO INC Zone ATOKA  
 Address 250 N WATER SWT #300 WICHITA KS 67202 Elevation 2851  
 Co. Rep./Geo. PAUL GODOWIC Cont. BEREDCO DRLG #7 Est. Ft. of Pay 4  
 Location: Sec. 4 Twp. 32S Rge. 32W Co. SEWARD State KS

Interval Tested 5444-5479 Drill Pipe Size 4.5" XH  
 Anchor Length 35 Wt. Pipe I.D. - 2.7 Ft. Run \_\_\_\_\_  
 Top Packer Depth 5439 Drill Collar - 2.25 Ft. Run 630  
 Bottom Packer Depth 5444 Mud Wt. 9 lb/Gal.  
 Total Depth 5479 Viscosity 46 Filtrate 7.6

Tool Open @ 6:30 AM Initial Blow WEAK BLOW THROUGHOUT - (1/2")

Final Blow VERY WEAK BLOW THROUGHOUT - (1/4") **RELEASED**

Recovery - Total Feet 90 Flush Tool? NO **MAR 11 1994**

Rec. 180 Feet of GAS IN PIPE  
 Rec. 90 Feet of DRILLING MUD WITH OIL SPECKS  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_

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BHT 128 °F Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
 RW 0.21 @ 70 °F Chlorides 2900 ppm Recovery Chlorides 2750 ppm System

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 4125

(A) Initial Hydrostatic Mud 2611.4 PSI AK1 Recorder No. 13277 Range 4125

(B) First Initial Flow Pressure 36.1 PSI @ (depth) 5447 w / Clock No. 27594

(C) First Final Flow Pressure 36.1 PSI AK1 Recorder No. 11038 Range 5075

(D) Initial Shut-in Pressure 40.2 PSI @ (depth) 5476 w / Clock No. 25814

(E) Second Initial Flow Pressure 40.2 PSI AK1 Recorder No. \_\_\_\_\_ Range \_\_\_\_\_

(F) Second Final Flow Pressure 40.2 PSI @ (depth) \_\_\_\_\_ w / Clock No. \_\_\_\_\_

(G) Final Shut-in Pressure 42.4 PSI Initial Opening 30 Final Flow 45

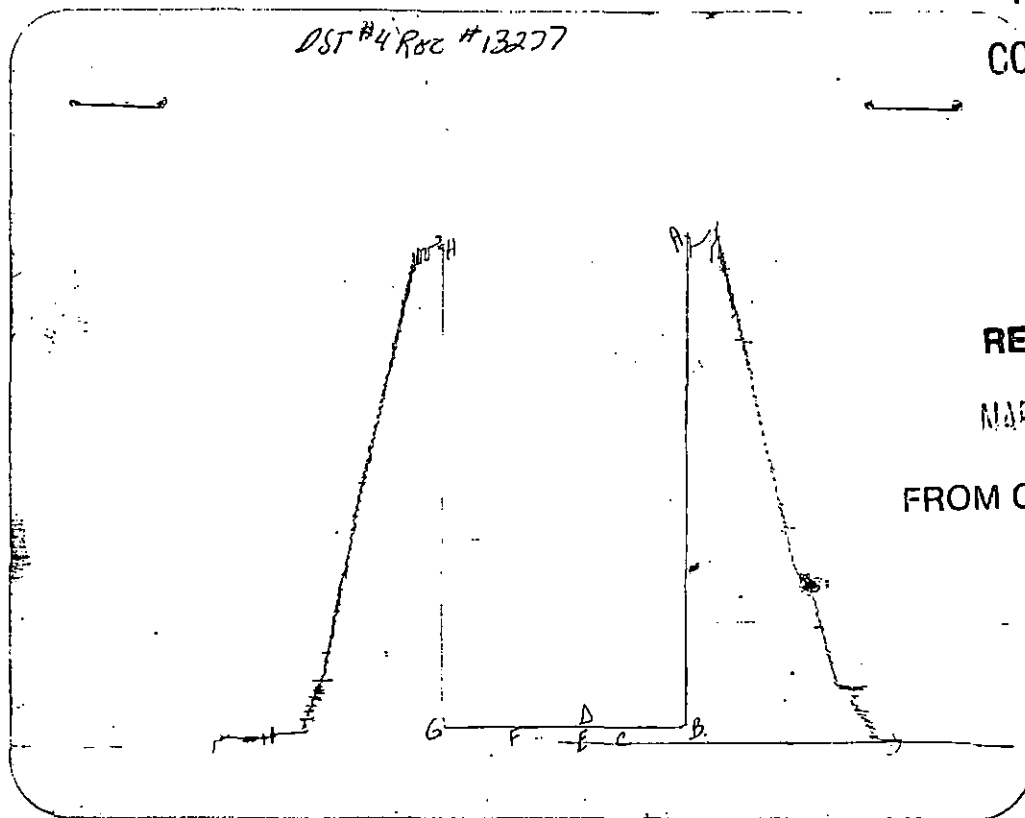
(H) Final Hydrostatic Mud 2607.4 PSI Initial Shut-in 45 Final Shut-in 45

Our Representative JOHN RIEDL

FEB 22

DST #4 Rec #13277

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OFFICE  
READING  
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Wichita, Kansas

	FIELD READING	
(A) INITIAL HYDROSTATIC MUD	2606	2611.4
(B) FIRST INITIAL FLOW PRESSURE	33	36.1
(C) FIRST FINAL FLOW PRESSURE	33	36.1
(D) INITIAL CLOSED-IN PRESSURE	35	40.2
(E) SECOND INITIAL FLOW PRESSURE	35	40.2
(F) SECOND FINAL FLOW PRESSURE	35	40.2
(G) FINAL CLOSED-IN PRESSURE	37	42.4
(H) FINAL HYDROSTATIC MUD	2595	2607.4

FLUID SAMPLER DATA

FEB 2 2  
CONFIDENTIAL

Ticket No.: 4962 Date: 12/16/92  
Company: MURFIN DRILLING CO INC  
Lease: WESSLER #1-4 Test No.: 4  
County: SEWARD Sec.: 4 Twp.: 32S Rng.: 32W

RELEASED

SAMPLER RECOVERY

PIT MUD ANALYSIS

MAR 1 1 1994

Gas  
Oil TRACE  
Mud 4000  
Water  
Other  
Pressure 0  
TOTAL 4000

Chlorides 2750  
Resistivity 2 ohms@ 65 F  
Viscosity 46  
Mud Wt. 9  
Filtrate 7.6  
Other

FROM CONFIDENTIAL

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Wichita, Kansas

SAMPLER ANALYSIS

PIPE RECOVERY

Resistivity 1.9 ohms@ 70 F  
Chlorides 3100 ppm.  
Gravity corrected @60F

TOP  
Resistivity ohms@ F  
Chlorides ppm

MIDDLE  
Resistivity ohms@ F  
Chlorides ppm

BOTTOM  
Resistivity 2.1 ohms@ 70 F  
Chlorides 2900 ppm



# TRILOBITE TESTING COMPANY

P.O. Box 362 - Hays, Kansas 67601

FEB 22

## FLUID SAMPLER DATA

CONFIDENTIAL

Ticket No. 4962 Date 12-16-92  
Company Name MURFIN DRILG CO INC.  
Lease WESSLER 1-4 Test No. 4  
County SEWARD Sec. 4 Twp. 32S Rng. 32W

### SAMPLER RECOVERY

### RELEASED

### PIT MUD ANALYSIS

Gas 1 ML Chlorides 2750 ppm.  
Oil TRACK ML Resistivity 2 ohms @ 65° F  
Mud 4000 ML Viscosity 46  
Water \_\_\_\_\_ ML Mud Weight 9  
Other \_\_\_\_\_ ML Filtrate 7.6 ORIGINAL  
Pressure 0 PSI Other \_\_\_\_\_  
Total \_\_\_\_\_ ML

### SAMPLER ANALYSIS

### PIPE RECOVERY

Resistivity 1.9 ohms @ 20 F  
Chlorides 3100 ppm.  
Gravity \_\_\_\_\_ corrected @ 60 F

TOP  
Resistivity \_\_\_\_\_ ohms @ \_\_\_\_\_ F  
Chlorides \_\_\_\_\_ ppm.

MIDDLE  
Resistivity \_\_\_\_\_ ohms @ \_\_\_\_\_ F  
Chlorides \_\_\_\_\_ ppm.

BOTTOM  
Resistivity 2.1 ohms @ 20 F  
Chlorides 2900 ppm.

# TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

## Test Ticket

FEB 22 No 4962

Well Name & No. WESSLER #1-4 Test No. 4 **CONFIDENTIAL** Date 12-16-92  
 Company MURFIN DRILL CO INC. Zone Tested ATOKA  
 Address 250 N WATER SUITE 300 WICHITA KS 67207 Elevation 2851 K.B.  
 Co. Rep./Geo. PAUL GODOWIC Cont. BARCO INC. RIG 7 Est. Ft. of Pay 4 FT  
 Location: Sec. 4 Twp. 32S Rge. 32W Co. SEWARD State KS  
 No. of Copies \_\_\_\_\_ Distribution Sheet \_\_\_\_\_ Yes  Turnkey \_\_\_\_\_ Yes  Evaluation \_\_\_\_\_

Interval Tested 5444-5479 Drill Pipe Size 4 1/2 IH  
 Anchor Length 35 FT **RELEASED** Top Choke — 1" Bottom Choke — 3/4"  
 Top Packer Depth 5439 Hole Size — 7 7/8" Rubber Size — 6 3/4"  
 Bottom Packer Depth 5444 Mar 11 1994 Wt. Pipe I.D. — 2.7 Ft. Run 0  
 Total Depth 5479 **FROM CONFIDENTIAL** Drill Collar — 2.25 Ft. Run 630 FT  
 Mud Wt. 9 lb/gal. Viscosity 46 Filtrate 7.6  
 Tool Open @ 6:30 AM. Initial Blow WEAK BLOW THROUGHOUT (1/2")

Final Blow VERY WEAK BLOW THROUGHOUT (1/4") **ORIGINAL**

Recovery — Total Feet	Feet of Gas In Pipe	Flush Tool?
<u>90</u>	<u>180 FT</u>	<u>NO</u>
Rec. <u>90</u> Feet Of <u>DRILLING MUD W/ OIL SPKS</u>	% gas	% oil
Rec. _____ Feet Of _____	% gas	% oil
Rec. _____ Feet Of _____	% gas	% oil
Rec. _____ Feet Of _____	% gas	% oil
Rec. _____ Feet Of _____	% gas	% oil

BHT 128 °F Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F Corrected Gravity FEB 24 1993 °API  
 RW 21 @ 20 °F Chlorides 2900 ppm Recovery Chlorides 2700 ppm System

(A) Initial Hydrostatic Mud 2606 PSI AK1 Recorder No. 13277 Range 0-2700  
 (B) First Initial Flow Pressure 33 PSI @ (depth) 5447 w/Clock No. 27574  
 (C) First Final Flow Pressure 33 PSI AK1 Recorder No. 11038 Range 5075  
 (D) Initial Shut-In Pressure 35 PSI @ (depth) 5476 w/Clock No. 25814  
 (E) Second Initial Flow Pressure 35 PSI AK1 Recorder No. \_\_\_\_\_ Range \_\_\_\_\_  
 (F) Second Final Flow Pressure 35 PSI @ (depth) \_\_\_\_\_ w/Clock No. \_\_\_\_\_  
 (G) Final Shut-In Pressure 37 PSI Initial Opening 30 Test ✓ 700  
 (H) Final Hydrostatic Mud 2595 PSI Initial Shut-In 45 Jars ✓ 200

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Final Flow 45 Safety Joint ✓  
 Final Shut-In 45 Straddle \_\_\_\_\_  
 Circ. Sub \_\_\_\_\_  
 Sampler ✓ 200  
 Extra Packer \_\_\_\_\_  
 Other \_\_\_\_\_

Approved By Paul Godowic  
 Our Representative John Reed

# TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

FEB 22 1992

## Drill-Stem Test Data

CONFIDENTIAL

Well Name WESSLER #1-4 Test No. 5 Date 12/18/92  
Company MURFIN DRILLING INC Zone MORROW  
Address 250 N WATER #300 WICHITA KS 67202 Elevation 2851  
Co. Rep./Geo. PAUL GODOWIC Cont. BEREDCO DRLG RIG #7 Est. Ft. of Pay 12  
Location: Sec. 4 Twp. 32S Rge. 32W Co. SEWARD State KS

Interval Tested 5485-5601 Drill Pipe Size 4.5" XH  
Anchor Length 116 Wt. Pipe I.D. - 2.7 Ft. Run \_\_\_\_\_  
Top Packer Depth 5480 Drill Collar - 2.25 Ft. Run 540  
Bottom Packer Depth 5485 Mud Wt. 9.3 lb/Gal.  
Total Depth 5601 Viscosity 41 Filtrate 9.4

Tool Open @ 9:10 AM Initial Blow STRONG BLOW - BOTTOM OF BUCKET IN 30 SECONDS  
GAS TO SURFACE IN 5 MINUTES  
Final Blow GAS TO SURFACE THROUGHOUT - SEE GAS VOLUME PAGE

Recovery - Total Feet 2 Flush Tool? NO

Rec. 2 Feet of CONDENSATE  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_

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BHT 130 °F Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery Chlorides 3400 ppm System

(A) Initial Hydrostatic Mud 2704.5 PSI AK1 Recorder No. 13277 Range 4125

(B) First Initial Flow Pressure 678.9 PSI @ (depth) 5488 w / Clock No. 3942

(C) First Final Flow Pressure 681.5 PSI AK1 Recorder No. 11038 Range 5075

(D) Initial Shut-in Pressure 1667.7 PSI @ (depth) 5598 w / Clock No. 25814

(E) Second Initial Flow Pressure 671.2 PSI AK1 Recorder No. \_\_\_\_\_ Range \_\_\_\_\_

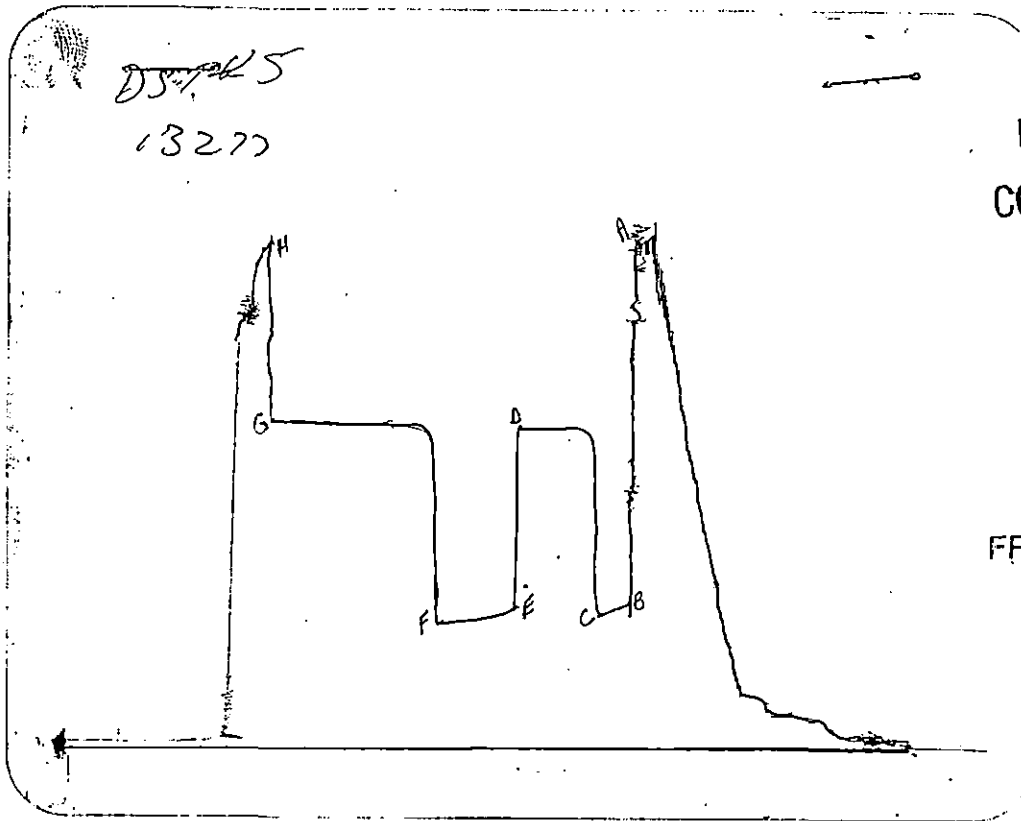
(F) Second Final Flow Pressure 627.3 PSI @ (depth) \_\_\_\_\_ w / Clock No. \_\_\_\_\_

(G) Final Shut-in Pressure 1670.2 PSI Initial Opening 30 Final Flow 60

(H) Final Hydrostatic Mud 2642.3 PSI Initial Shut-in 60 Final Shut-in 120

Our Representative JOHN RIEDL

CHART PAGE



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ORIGINAL

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2696	
(B) FIRST INITIAL FLOW PRESSURE	689	
(C) FIRST FINAL FLOW PRESSURE	702	681.5
(D) INITIAL CLOSED-IN PRESSURE	1662	1667.7
(E) SECOND INITIAL FLOW PRESSURE	663	671.2
(F) SECOND FINAL FLOW PRESSURE	637	627.3
(G) FINAL CLOSED-IN PRESSURE	1700	1670.2
(H) FINAL HYDROSTATIC MUD	2632	2642.3

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COMPUTER EVALUATION BY TRILOBITE TESTING, L.L.C.  
MURFIN DRILLING INC

WESSLER #1-4 5  
4 32S 32W SEWARD KS

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*****
ELEVATION:                2851 KB           EST. PAY:                12 FT.
DATUM:                    -2748           ZONE TESTED:            MORROW
TEST INTERVAL:           5485-5601       TIME INTERVALS:        30-60-60-120
RECORDER DEPTH:          5598           VISCOSITY:              0.0158 CP
BOTTOM HOLE TEMP:        130           HOLE SIZE:              7.875 IN
COMPRESSIBILITY:         0.9949        GAS GRAVITY:            0.7037
*****

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TEMPERATURE RANKINE:          590.00 &
TRANSMISSIBILITY:            90021.60 Kh/%
THEORITICAL FLOW CAPICITY:    1422.52 Kh
AVERAGE EFFECTIVE PERMEABILITY: 118.54 K(md.)
RADIUS OF INVESTIGATION:     103.29 FT.
DAMAGE RATIO:                19.50
ABSOLUTE OPEN FLOW(MAX)      1349.53 MCFD
ABSOLUTE OPEN FLOW(MIN)      1251.18 MCFD
THEORITICAL OPEN FLOW(MAX)   26321.55 MCFD
THEORITICAL OPEN FLOW(MIN)   24403.36 MCFD
POTENTIOMETRIC SURFACE      0.00 (FT.)
*****

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INITIAL SHUT-IN VALUES:
SLOPE                      26823.83
THEORETICAL STATIC PRESSURE 1676

FINAL SHUT-IN VALUES:
SLOPE                      12382.02
THEORETICAL STATIC PRESSURE 1674

```

DRAWDOWN FACTOR: 0.11 (%)

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ORIGINAL

INITIAL FLOW

RECORDER # 11038

DST # 5

TIME(MIN)	PRESSURE	<> PRESSURE
0	678.9	678.9
3	680.2	1.3
6	681.5	1.3
9	682.8	1.3
12	684.1	1.3
15	686.7	2.6
18	684.1	-2.6
21	681.5	-2.6
24	678.9	-2.6
27	681.5	2.6

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FINAL FLOW

RECORDER # 11038

DST # 5

TIME(MIN)	PRESSURE	<> PRESSURE
0	671.2	671.2
3	671.2	0
6	668.6	-2.6
9	667.3	-1.3
12	666	-1.3
15	666	0
18	664.8	-1.2
21	664.8	0
24	663.5	-1.3
27	660.9	-2.6
30	659.6	-1.3
33	659.6	0
36	657	-2.6
39	655.7	-1.3
42	655.7	0
45	651.9	-3.8
48	649.3	-2.6
51	644.1	-5.2
54	640.2	-3.9
57	637.7	-2.5
60	627.3	-10.4

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ORIGINAL

WESSLER #1-4 DST #5  
INITIAL SHUTIN

30 TOTAL FLOW TIME

Slope 26823.83 psi/cycle  
P \* 1676 psi

TIME(MIN)	Pws (psi)	Horn T	Log <> PRESSURE	Horn T
3	1594.7	1.041	1594.7	11
6	1633.7	0.778	39.0	6
9	1646.3	0.637	12.6	4
12	1652.6	0.544	6.3	4
15	1656.4	0.477	3.8	3
18	1657.5	0.426	1.1	3
21	1658.9	0.385	1.4	2
24	1659.8	0.352	0.9	2
27	1660.1	0.325	0.3	2
30	1661.4	0.301	1.3	2
33	1662.6	0.281	1.2	2
36	1663.9	0.263	1.3	2
39	1663.9	0.248	0.0	2
42	1665.2	0.234	1.3	2
X 45	1665.7	0.222	0.5	2
48	1666.4	0.211	0.7	2
51	1667.7	0.201	1.3	2
54	1667.7	0.192	0.0	2
57	1667.7	0.184	0.0	2
60	1667.7	0.176	0.0	2
X 63	1667.7	0.169	0.0	1

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Wichita, Kansas

ORIGINAL

WESSLER #1-4 DST #5  
FINAL SHUTIN

90 TOTAL FLOW TIME

Slope 12382.02 psi/cycle  
P \* 1674 psi

	Pws (psi)	Log Horn T	<> PRESSURE	Horn T	
	6	1618.6	1.204	1618.6	16
	12	1646.3	0.929	27.7	9
	18	1652.6	0.778	6.3	6
	24	1657.6	0.677	5.0	5
	30	1661.4	0.602	3.8	4
	36	1665.2	0.544	3.8	4
	42	1665.2	0.497	0.0	3
	48	1665.2	0.459	0.0	3
	54	1666.4	0.426	1.2	3
	60	1667.7	0.398	1.3	3
	66	1667.7	0.374	0.0	2
	72	1668.9	0.352	1.2	2
	78	1668.9	0.333	0.0	2
	84	1668.9	0.316	0.0	2
	90	1669.1	0.301	0.2	2
	96	1669.1	0.287	0.0	2
	102	1669.1	0.275	0.0	2
	108	1670.2	0.263	1.1	2
	114	1670.2	0.253	0.0	2
X	120	1670.2	0.243	0.0	2
X	126	1670.2	0.234	0.0	2

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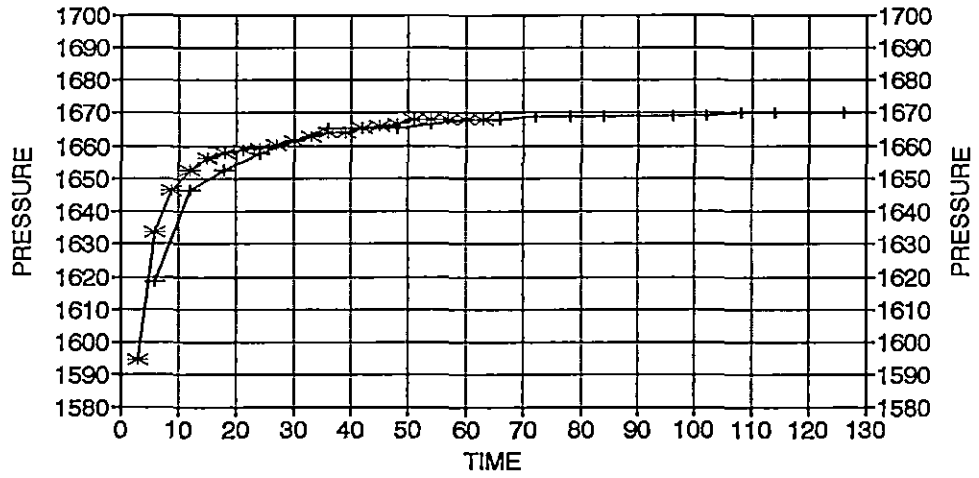
CONSERVATION DIVISION  
Wichita, Kansas

ORIGINAL



WESSLER #1-4 / DST #5  
 DELTA T DELTA P

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 CONFIDENTIAL



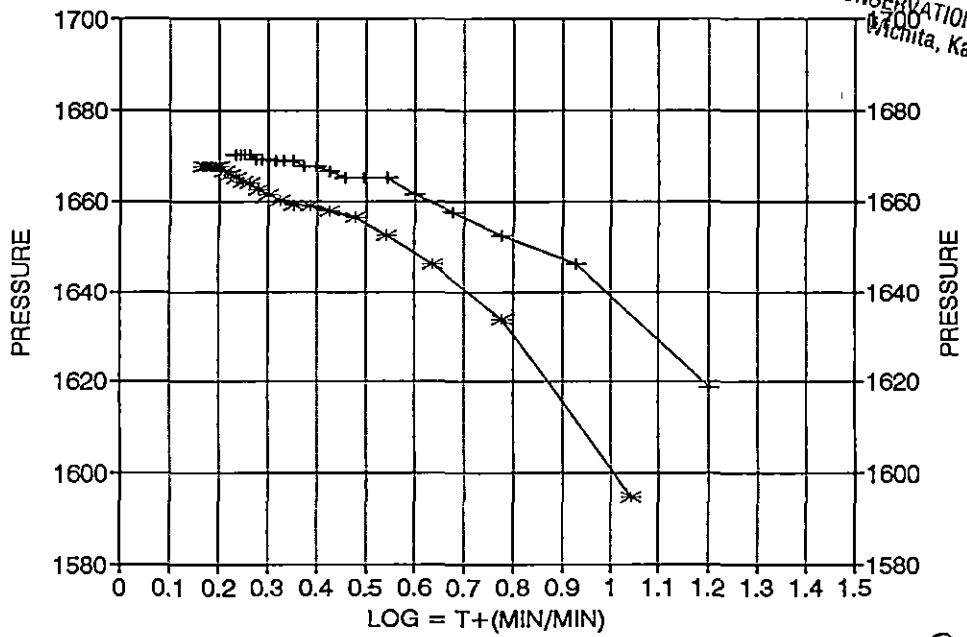
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—\*— INITIAL —+— FINAL

HORNER PLOT



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 WICHITA, KANSAS

ORIGINAL

FLUID SAMPLER DATA

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Ticket No.: 4963 Date: 12/18/92  
 Company: MURFIN DRILLING INC  
 Lease: WESSLER #1-4 Test No.: 5  
 County: SEWARD Sec.: 4 Twp.: 32S Rng.: 32W

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SAMPLER RECOVERY

Gas 2700  
 Oil  
 Mud 1300  
 Water  
 Other 9.3 CU FT  
 Pressure 1575  
 TOTAL 4000

PIT MUD ANALYSIS

Chlorides 3400  
 Resistivity ohms@ F  
 Viscosity 41  
 Mud Wt. 9.3  
 Filtrate 9.4  
 Other

SAMPLER ANALYSIS

Resistivity ohms@ F  
 Chlorides ppm.  
 Gravity corrected @60F

PIPE RECOVERY

TOP  
 Resistivity ohms@ F  
 Chlorides ppm  
 MIDDLE  
 Resistivity ohms@ F  
 Chlorides ppm  
 BOTTOM  
 Resistivity ohms@ F  
 Chlorides ppm

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GAS VOLUME REPORT

MURFIN DRILLING INC

WESSLER #1-4

FEB 22  
CONFIDENTIAL

DST # 5

MIN	PSIG	ORIFICE	MCF/D	MIN	PSIG	ORIFICE	MCF/D
TOOL OPEN 9:10 AM							
GAS TO SURFACE IN 5 MINUTES							
5	17	1.5	1760	10	22	1.5	2075
10	23	1.5	2441	20	26	1.5	2319
20	36	1.5	2916	30	22	1.5	2075
30	38	1.5	3036	40	18	1.5	1824
				50	12	1.5	1420
				60	9	1.5	1160

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Wichita, Kansas

ORIGINAL

Remarks: GAS WILL BURN

# TRILOBITE TESTING COMPANY

P.O. Box 362 - Hays, Kansas 67601

FEB 22

## FLUID SAMPLER DATA

CONFIDENTIAL

Ticket No. 4963 Date 12/12/92 **RELEASED**  
Company Name MURFIN DRILLING **MAR 11 1994**  
Lease WBSLOR #1-4 Test No. 5 **FROM CONFIDENTIAL**  
County \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ Rng. \_\_\_\_\_

### SAMPLER RECOVERY

### PIT MUD ANALYSIS

Gas 2700 ML  
Oil \_\_\_\_\_ ML  
Mud 1300 ML  
Water \_\_\_\_\_ ML  
Other 9.3 cubic ft. ML  
Pressure 1575 PSI  
Total 4000 ML

Chlorides 3,400 ppm.  
Resistivity \_\_\_\_\_ ohms @ \_\_\_\_\_ F  
Viscosity 41  
Mud Weight 9.3  
Filtrate 9.4  
Other \_\_\_\_\_

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Wichita, Kansas  
**PIPE RECOVERY**

### SAMPLER ANALYSIS

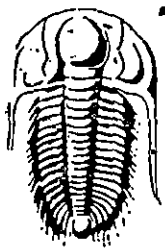
Resistivity \_\_\_\_\_ ohms @ \_\_\_\_\_ F  
Chlorides \_\_\_\_\_ ppm.  
Gravity \_\_\_\_\_ corrected @ 60 F

TOP  
Resistivity \_\_\_\_\_ ohms @ \_\_\_\_\_ F  
Chlorides \_\_\_\_\_ ppm.

ORIGINAL

MIDDLE  
Resistivity \_\_\_\_\_ ohms @ \_\_\_\_\_ F  
Chlorides \_\_\_\_\_ ppm.

BOTTOM  
Resistivity \_\_\_\_\_ ohms @ \_\_\_\_\_ F  
Chlorides \_\_\_\_\_ ppm.



# TRILOBITE TESTING

P.O. Box 362 • Hays, Kansas 67601 • (913) 625-4778

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## GAS VOLUME REPORT

Murfin Drilling Co., Inc.  
OPERATOR

Wessler No. 1-4  
WELL NAME AND NO.

5  
DST NO.

\* TEST OPEN 9:10 A.M. GAS TO SURFACE IN 5 MINUTES

Min.	Ins. of Water <u>PSIG</u>	Orifice Size	MCF/D	Min.	Ins. of Water <u>PSIG</u>	Orifice Size	MCF/D
5	17	1 1/2"	1760	10	22	1 1/2"	2075
10	23	"	2441	20	26	"	2319
20	30	"	2916	30	22	"	2075
30	38	"	3,036	40	18	"	1824
				50	12	"	1420
				60	9	"	1160

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NATURAL RESOURCES COMMISSION

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CONSERVATION DIVISION  
Wichita, Kansas

ORIGINAL

Remarks: • GAS WILL BURN

# TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

FEB 22  
CONFIDENTIAL No. 4963

## Test Ticket

Well Name & No. NESSLER #1-4 Test No. 5 Date 12-12-92  
 Company MURFIN DRILL INC Zone Tested MORROW  
 Address 250 N WATER SUITE 306 WICHITA KS Elevation 2851 K.B.  
 Co. Rep./Geo. PAUL GODOWICZ Cont. BEREDCO INC RTG 7 Est. Ft. of Pay 12'  
 Location: Sec. 4 Twp. 32S Rge. 32W Co. SEWARD State KS  
 No. of Copies \_\_\_\_\_ Distribution Sheet \_\_\_\_\_ Yes \_\_\_\_\_  Turnkey \_\_\_\_\_ Yes \_\_\_\_\_  Evaluation \_\_\_\_\_

Interval Tested 5485 - 5601 Drill Pipe Size 4 1/2 XH  
 Anchor Length 116 Top Choke — 1" \_\_\_\_\_ Bottom Choke — 3/4" \_\_\_\_\_  
 Top Packer Depth 5480 Hole Size — 7 7/8" \_\_\_\_\_ Rubber Size — 6 3/4" \_\_\_\_\_  
 Bottom Packer Depth 5485 Wt. Pipe I.D. — 2.7 Ft. Run 0  
 Total Depth 5601 Drill Collar — 2.25 Ft. Run ~~540 FT~~ 540 FT  
 Mud Wt. 9.3 lb / gal. Viscosity 4H Filtrate 9.4  
 Tool Open @ 9:10 AM. Initial Blow STRONG BOB 30 SECONDS GAS TO SURFACE IN 5 MINUTES  
 Final Blow GAS TO SURFACE THROUGHOUT - SEE GAS VOLUME REPORT

Recovery — Total Feet 2' Feet of Gas In Pipe \_\_\_\_\_ Flush Tool? NO  

Rec. _____ Feet Of _____	% gas	% oil	% water	% mud
Rec. _____ Feet Of <b>RELEASED</b>				
Rec. <u>2'</u> Feet Of <u>Condensate</u>				
Rec. _____ Feet Of _____				
Rec. _____ Feet Of _____				

BHT 130 °F Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F Corrected Gravity FEB 24 1993

RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery Chlorides 3400  
 (A) Initial Hydrostatic Mud 2696 PSI Ak1 Recorder No. 13277 Range 4125  
 (B) First Initial Flow Pressure 689 PSI @ (depth) 5488 w/Clock No. 3942  
 (C) First Final Flow Pressure 702 PSI AK1 Recorder No. 11838 Range 5075  
 (D) Initial Shut-in Pressure 1662 PSI @ (depth) 5598 w/Clock No. 25914  
 (E) Second Initial Flow Pressure 663 PSI AK1 Recorder No. \_\_\_\_\_ Range \_\_\_\_\_  
 (F) Second Final Flow Pressure 637 PSI @ (depth) \_\_\_\_\_ w/Clock No. \_\_\_\_\_  
 (G) Final Shut-in Pressure 1700 PSI Initial Opening 30 Test ✓  
 (H) Final Hydrostatic Mud 2632 PSI Initial Shut-in 60 Jars ✓

TRILOBITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Final Flow 60 Safety Joint ✓  
 Final Shut-in 120 Straddle ORIGINAL  
 Circ: Sub \_\_\_\_\_  
 Sampler ✓

Approved By Paul F. Godowicz  
 Our Representative John Reed

Extra Packer \_\_\_\_\_  
 Other \_\_\_\_\_  
 TOTAL PRICE \$ \_\_\_\_\_



STATE OF KANSAS - CORPORATION COMMISSION FEB 22 FORM CG-1  
MULTIPOINT BACK PRESSURE TEST

CONFIDENTIAL

TYPE TEST:  Initial  Annual  Special TEST DATE: 2-12-93

COMPANY: MURFIN DRILLING CO. LEASE: WESSLER WELL NO.: 1-4

COUNTY: SEWARD LOCATION: SW SE NE SECTION: 4 TWP: 32S RNO: 32W ACRES:

FIELD: WILDCAT RESERVOIR: MORROW PIPELINE CONNECTION: NONE

COMPLETION DATE: 2-5-93 PLUG BACK TOTAL DEPTH: 5800 PACKER SET AT: 5514

CASING SIZE: 5 1/2 WT.: 15.5 ID: 4.950 SKT AT: 5986 PERP.: 5574 TO: 5579

TUBING SIZE: 2 3/8 WT.: 4.7 ID: 1.995 SKT AT: 5514 PERP.: TO:

TYPE COMPLETION (Describe): SINGLE GAS TYPE FLUID PRODUCTION: NONE ORIGINAL

PRODUCING THRU TUBING: RESERVOIR TEMPERATURE: 138 @ 5576.5 BAR PRESS - P<sub>a</sub>: 14.4 psia

GAS GRAVITY - G<sub>g</sub>: .672 % CARBON DIOXIDE: % NITROGEN: API GRAVITY OF LIQUID:

VERTICAL DEPTH (H): 5576.5 TYPE METER CONN.: Prover (METER RUN) (PROVER) SIZE: 2"

REMARKS: PW CALC. FROM PT.

OBSERVED DATA DURATION OF SHUT-IN: DR.

RATE NO.	ORIFICE SIZE in.	(METER) (PROVER) PRESSURE psig	DIFF. (hw) (hg)	FLOWING TEMP. t	WELL-HEAD TEMP. t	CASING WELLHEAD PRESS.		TUBING WELLHEAD PRESS.		DURATION HOURS	LIQUID PROD. bbls.
						psig	(P <sub>w</sub> )(P <sub>o</sub> )(P <sub>a</sub> ) psia	psig	(P <sub>w</sub> )(P <sub>o</sub> )(P <sub>a</sub> ) psia		
SHUT IN								1452.0	1466.4	166	0.0
1	1/8	1428		56	74			1428.0	1442.4	1.0	0.0
2	3/16	1375		58	74			1375.0	1389.4	1.0	0.0
3	1/4	1294		59	74			1294.0	1308.4	1.0	0.0
4	5/16	1136		60	74			1136.0	1150.4	1.0	0.0
5											

RATE OF FLOW CALCULATIONS

RATE NO.	COEFFICIENT (F <sub>o</sub> )(F <sub>p</sub> ) Moid	(METER) (PROVER) PRESSURE psia	EXTENSION $\sqrt{P_m \times h_w}$	GRAVITY FACTOR F <sub>g</sub>	FLOWING TEMP FACTOR F <sub>t</sub>	DEVIATION FACTOR F <sub>pv</sub>	RATE OF FLOW Q Moid	GOR	G <sub>m</sub>
1	0.272	1442.4		1.220	1.004	1.182	567.1	0	0.672
2	0.624	1389.4		1.220	1.002	1.173	1242.1	0	0.672
3	1.115	1308.4		1.220	1.001	1.162	2069.6	0	0.672
4	1.714	1150.4		1.220	1.000	1.141	2744.6	0	0.672
5									

PRESSURE CALCULATIONS

RATE NO.	P <sub>i</sub> psia	P <sub>o</sub> psia	P <sub>w</sub> psia	(P <sub>o</sub> ) <sup>2</sup> THOUSANDS	(P <sub>w</sub> ) <sup>2</sup> THOUSANDS	PLOTTING POINTS		% SHUT-IN $100 \left[ \frac{P_w - P_a}{P_o - P_a} \right]$
						(P <sub>o</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup> THOUSANDS	Q Moid	
1	1442.4	1466.4	1444.2	2150.3	2085.6	64.7	567.1	98.5
2	1389.4	1466.4	1398.3	2150.3	1955.2	195.1	1242.1	95.3
3	1308.4	1466.4	1334.8	2150.3	1781.6	368.7	2069.6	90.9
4	1150.4	1466.4	1203.8	2150.3	1449.2	701.1	2744.6	81.9
5								

INDICATED WELLHEAD OPEN FLOW 6290 Moid @ 14.65 psia "m" = .740

The undersigned authority, on behalf of the Company, states that he is duly authorized to make the above report and that he has knowledge of the facts stated therein, and that said report is true and correct.

Executed this the 12TH day of FEBRUARY, 1993.

Witness (if any)  
For Commission

PRECISION WELL TEST  
For Company  
STEVE HELM  
Checked by

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Wichita, Kansas



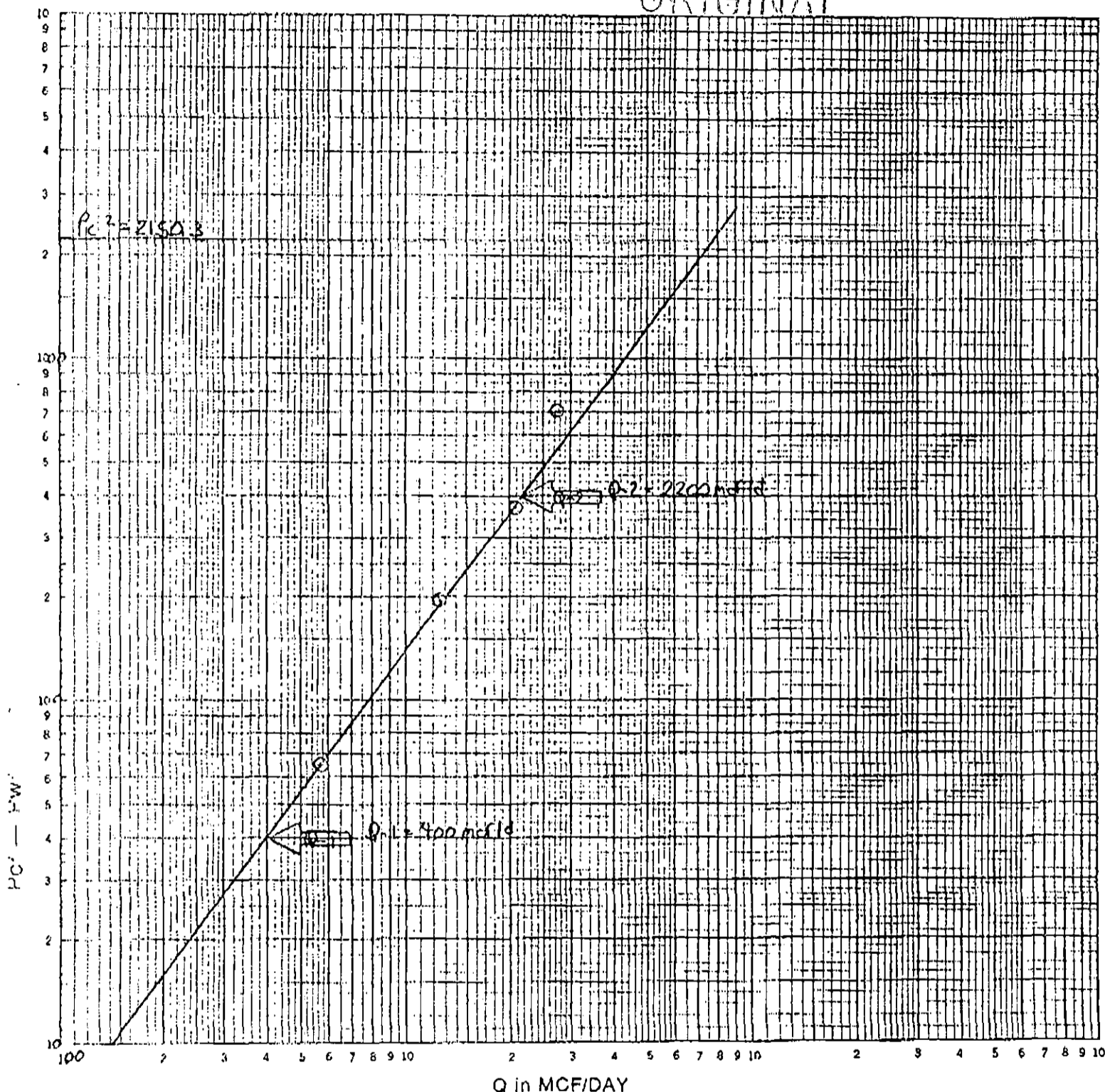
# BACK PRESSURE CURVE

OPERATOR: MURFIN DRILLING CO  
 WELL NAME: WESSLER 1-4  
 LOCATION: 4-32S-32W  
 COUNTY: SEWARD STATE: KS

DATE OF TEST: 2-12-93  
 TYPE OF PLOT: FEB 22

ORIGINAL

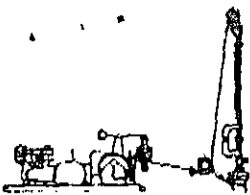
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LOG Q-2 = 3.342  
 LOG Q-1 = 2.602  
 'n' = .740

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# Precision Well Testing

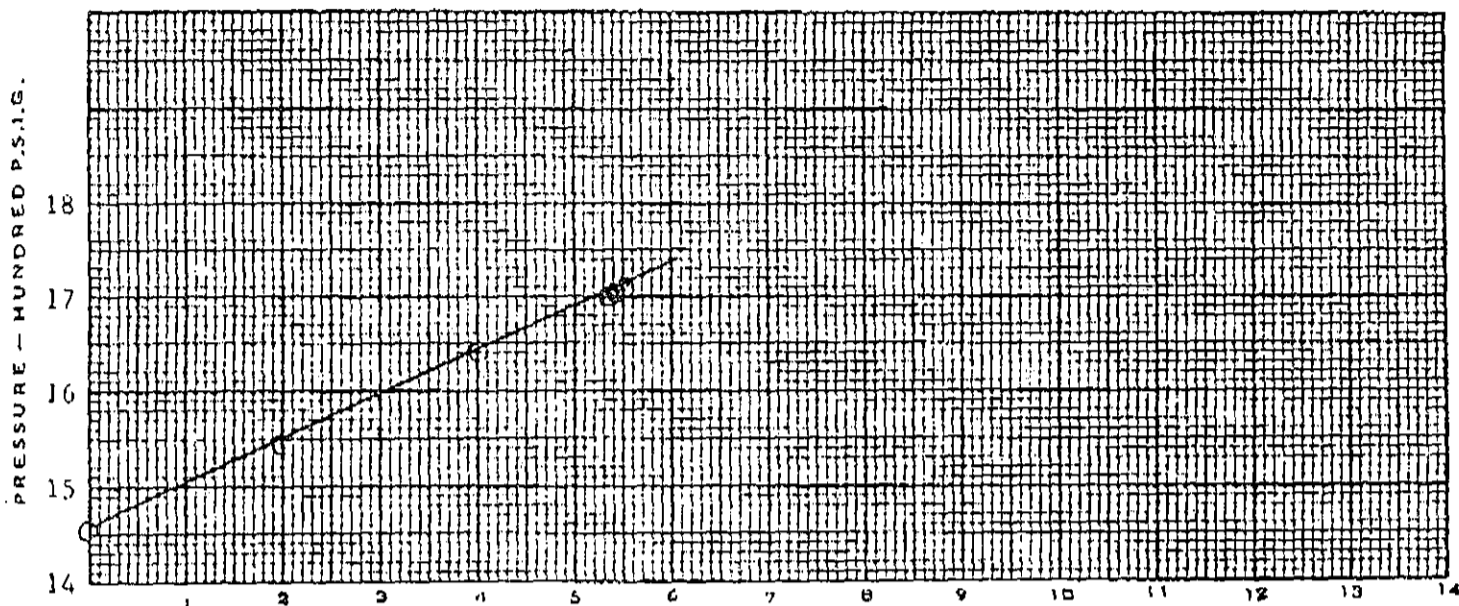
P. O. Box 1843  
 Liberal, Kansas 67901  
 316-624-4505

FEB 22  
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## STATIC BOTTOM HOLE PRESSURE TEST

MURFIN DRILLING CO  
 COMPANY

Lease WESSLER WELL NO. 1-4 TYPE COMPLETION: SINGLE GAS FIELD WILDCAT DATE OF TEST 2-12-93  
 Location SW SE NE 4-32S-32W COUNTY SEWARD STATE KS



### DEPTH - THOUSAND FEET WELL RECORD

DEPTH	PRESSURE (PSIG)	DIFF.	GRADIENT
0	1452.8		
2000	1543.8	90.8	.045
4000	1638.2	94.6	.047
5377	1703.2	65.0	.047
5477	1707.9	4.7	.047
5577	1712.7	4.8	.048

#### Elevations:

Ground \_\_\_\_\_  
 Derrick Floor \_\_\_\_\_  
 Kelly Bushing GL+12'  
 Permanent Zero GL+12'  
 Instrument Zero GL+4'  
 Instrument to Permanent Zero -7'  
 Pressures are ( X ) are not ( ) corrected

#### CASING RECORD

OD SIZE	WEIGHT LB./FT.	GRADE	SETTING DEPTH
5 1/2	15.5		5986

#### PERFORATION RECORD

From	To	From	To
5574	5579		

#### TUBING RECORD

OD SIZE	WEIGHT LB./FT.	GRADE	SETTING DEPTH
2 3/8	4.7		5514

INSTRUMENT AT 5577 0900 Ft., @

TOTAL DEPTH 6000  
 PLUGBACK DEPTH 5800

REMARKS:

### ORIGINAL WELL TEST DATA

SHUT IN:	<u>2-5-93 @ 1100</u>	
FORMATION:	<u>MORROW</u>	
ELEVATION (GND.):		FEET
DATUM:	<u>5576.5</u>	FEET
TEST DEPTH:	<u>5577</u>	FEET
CASING PRESSURE:	<u>PKR</u>	P.S.I.G.
TUBING PRESSURE:	<u>1452</u>	P.S.I.G.
TOP OF FLUID:	<u>NONE</u>	FEET
TOP OF WATER:	<u>NONE</u>	FEET
TEST DEPTH TEMP.:	<u>138</u>	°F
SHUT IN TIME:	<u>166</u>	HRS.
OIL GRAVITY:		
GAS GRAVITY:		
DATE WHEN GRAVITY RAN:		
INSTRUMENT:	<u>AMERADA</u>	
CALIBRATION DATE:	<u>12-31-92</u>	
LAST TEST DATE:	<u>INITIAL</u>	
PRESSURE LAST TEST:	<u>INITIAL</u>	P.S.I.G.
B.H.P. CHANGE:		P.S.I.
GAUGE NO.:	<u>56486</u>	
CLOCK NO.:	<u>A-13800</u>	
OPERATOR:	<u>ANDREWS</u>	

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# Precision Well Testing

P.O. Box 1843  
Liberal, Kansas 67905-1843  
Phone: 316-624-4505  
Mobile: 316-624-6258 Unit 9390

ORIGINAL

Producer: MURFIN DRILLING CO  
Well Name: WESSLER 1-4  
Location: SW SE NE 4-32S-32W  
County: SEWARD State: KS

Csg 5 1/2 Wt 15.5 Set @ 5986 TD 6000 PB 5800 GL \_\_\_\_\_  
Tbg 2 3/8 Wt 4.7 Set @ 5514 SN \_\_\_\_\_ PKR 5514 KB GL+12'  
Perfs. 5574 to 5579 \_\_\_\_\_ to \_\_\_\_\_ to \_\_\_\_\_ to \_\_\_\_\_  
Prover \_\_\_\_\_ Meter 3" Taps FLA Orifice 1.50 Per \_\_\_\_\_ Tor \_\_\_\_\_  
Gg .672 API \_\_\_\_\_ @ \_\_\_\_\_ GM \_\_\_\_\_ Reservoir MORROW

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Date Time of Reading	Elap Time Hours	Wellhead Pressure Data						Measurement Data				Liquids		Type Test:	Initial Annual	Special Retest	Ending Date	
		Csg Psig	$\Delta P$ Csg	Tbg Psig	$\Delta P$ Tbg	BHP Psig	$\Delta P$ BHP	Press. Psig	Diff.	Temp	Q mcf/D	Cond bbbs	Water bbbs	Remarks Pertinent to Test Data Quality				
FRIDAY 2-5-93																		
0945		PKR		1216		1501.2		240		59	1704							1000# 100"
																		INSTRUMENT AT 5577' (KB)
																		WELL FLOWING ON 14/64 CHOKE
1100		PKR		1216		1501.2	0	240		61	1733							SHUT WELL-IN.
1100		START BUILD-UP.																
1115						1659.7	+158.5											
1130	.5					1668.2	+8.5											
1145						1672.6	+4.4											
1200	1.0					1676.6	+4.0											
1215						1679.0	+2.4											
1230	1.5					1682.0	+3.0											
1245						1684.5	+2.5											
1300	2.0					1686.6	+2.1											
1315						1688.7	+2.1											
1330	2.5					1690.3	+1.6											
1345						1691.6	+1.3											
1400	3.0					1692.6	+1.0											
1415						1693.9	+1.3											
1430	3.5					1694.9	+1.0											
1445						1695.7	+0.8											
1500	4.0					1696.3	+0.6											
1530						1697.3	+1.0											
1600	5.0					1698.5	+1.2											

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Precision Well Testing

MURFIN DRILLING CO - WESSLER 1-4

Date Time of Reading	Elap Time Hours	Wellhead Pressure Data						Measurement Data				Liquids		Type	Initial	Special	Ending	
		Csg Psig	$\Delta P$ Csg	Tbg Psig	$\Delta P$ Tbg	BHP Psig	$\Delta P$ BHP	Press. Psig	Diff.	Temp	Q mcf/D	Cond bbis	Water bbis	Test:	Annual	Retest	Date 2-12-93	
FRIDAY 2-5-93	(CONTD)																	
1630						1699.6	+1.1											
1700	6.0					1700.5	+0.9											
1730						1701.3	+0.8											
1800	7.0					1702.1	+0.8											
1830						1702.9	+0.8											
1900	8.0					1703.4	+0.5											
2000	9.0					1704.0	+0.6											
2100	10.0					1704.6	+0.6											
2200	11.0					1705.3	+0.7											
2300	12.0					1705.9	+0.6											
SATURDAY 2-6-93																		
0100	14.0					1706.7	+0.8											
0300	16.0					1707.1	+0.4											
0500	18.0					1707.5	+0.4											
0700	20.0					1707.8	+0.3											
0900	22.0					1708.3	+0.5											
1100	24.0					1708.6	+0.3											
1500	28.0					1709.4	+0.8											
1900	32.0					1709.8	+0.4											
2300	36.0					1710.0	+0.2											
SUNDAY 2-7-93																		
0300	40.0					1710.3	+0.3											
0700	44.0					1710.6	+0.3											
1100*	48.0					1710.8	+0.2											

Feb. 13, 93 12:38 P. 05

PRECISION WELL TESTING TEL No. 316-624-2444

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Wichita, Kansas

Precision Well Testing

MURFIN DRILLING CO - WESSLER 1-4

Feb. 13, 93 12:39 P.06

PRECISION WELL TESTING TEL NO. 316-624-2444

Date Time of Reading	Elap Time Hours	Wellhead Pressure Data						Measurement Data			Liquids		Type	Initial	Special	Ending	
		Csg Psig	$\Delta P$ Csg	Tbg Psig	$\Delta P$ Tbg	BHP Psig	$\Delta P$ BHP	Press. Psig	Diff.	Temp	Q mcf/D	Cond bbbs	Water bbls	Test:	Annual	Retest	Date
SUNDAY 2-7-93	(CONTD)																12-93
1900	56.0					1711.5	+0.7										
MONDAY 2-8-93																	
0300	64.0					1711.9	+0.4										
1100	72.0					1712.1	+0.2										
1900	80.0					1712.4	+0.3										
TUESDAY 2-9-93																	
0300	88.0					1712.6	+0.2										
1100	96.0					1712.7	+0.1										
1900	104.0					1712.7	0										
WEDNESDAY 2-10-93																	
0300	112.0					1712.7	0										
1100	120.0					1712.7	0										
1900	128.0					1712.7	0										
THURSDAY 2-11-93																	
0300	136.0					1712.7	0										
1100	144.0					1712.7	0										
1900	152.0					1712.7	0										
FRIDAY 2-12-93																	
0300	160.0					1712.7	0										
0900	166.0	PKR		1452		1712.7	0										INSTRUMENT AT 5577' (KB) FOR STATIC.

FEB 22  
CONFIDENTIAL

ORIGINAL

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MAR 1 1994  
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FEB 24 1995

CONSERVATION DIVISION  
Wichita, Kansas

Precision Well Testing

MURFIN DRILLING CO - WESSLER 1-4

FEB 22  
CONFIDENTIAL

ORIGINAL

Date Time of Reading	Elap Time Hours	Wellhead Pressure Data						Measurement Data				Liquids	
		Csg Psig	$\Delta P$ Csg	Tbg Psig	$\Delta P$ Tbg	BHP Psig	$\Delta P$ BHP	Press. Psig	Diff.	Temp	Oil mcf/O	Cond. bbls	Water bbls
FRIDAY 2-12-93	(CONTD)												
0915		WELL ON 1ST RATE OF MULTI-PT. TEST THROUGH 2" C.F. PROVER AND 1/8" PLATE INSTALLED DIRECTLY OFF WELL											
0920				1431	-21			1431		54	569		
0925				1430	-1			1430		54	569		
0930				1429	-1			1429		55	568		
0945	.5			1429	0			1429		56	568		
1000				1428	-1			1428		56	567		
1015	1.0	PKR		1428	0			1428		56	567	0 0	
1015		WELL ON 2ND RATE OF MULTI-PT. TEST THROUGH 2" C.F. PROVER AND 3/16" PLATE INSTALLED DIRECTLY OFF WELL											
1020				1391	-37			1398		56	1263		
1025				1385	-6			1385		56	1252		
1030				1381	-4			1381		57	1248		
1045	1.5			1379	-2			1379		58	1246		
1100				1377	-2			1377		58	1245		
1115	2.0	PKR		1375	-2			1375		58	1242	0 0	
1115		WELL ON 3RD RATE OF MULTI-PT. TEST THROUGH 2" C.F. PROVER AND 1/4" PLATE INSTALLED DIRECTLY OFF WELL											
1120				1319	-56			1314		59	2109		
1125				1312	-7			1312		59	2098		
1130				1309	-3			1309		59	2093		
1145	2.5			1298	-11			1298		59	2076		
1200				1296	-2			1296		59	2073		
1215	3.0	PKR		1294	-2			1294		59	2070	0 0	

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Feb. 13. 93 12:41 P. 08

PRECISION WELL TESTING TEL NO. 316-624-2444

Date Time of Reading	Elap Time Hours	Wellhead Pressure Data				Measurement Data				Liquids		Type Test: <u>Annual</u> <del>Special Retest</del>		Ending Date 2-93	
		Csg Psig	$\Delta P$ Csg	Tbg Psig	$\Delta P$ Tbg	BHP Psig	$\Delta P$ BHP	Press. Psig	Diff.	Temp	Q mcf/D	Cond bbbs	Water bbbs		Remarks Pertinent to Test Data Quality
FRIDAY 2-12-93	(CONTD)														
1215				WELL ON 4TH RATE OF MULTI-PT. TEST THROUGH 2" C.F. PROVER AND 5/16" PLATE INSTALLED DIRECTLY OFF WELLHEAD.											
1220				1178	-117			1178		60	2844				
1225				1173	-5			1173		60	2832				
1230				1169	-4			1169		60	2823				
1245	3.5			1154	-15			1154		60	2787				
1300				1142	-12			1142		60	2758				
1315	4.0	PKR		1136	-6			1136		60	2745	0	0	OBTAIN GAS SAMPLE. SHOT WELL-IN.	
ORIGINAL															
FEB 22 CONFIDENTIAL												RELEASED MAR 11 1994 FROM CONFIDENTIAL			

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