

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

API NO. 15- 175-21395-0000 ORIGINAL

County Seward
NW SW Sec. 36 Twp. 32S Rge. 33W E

1980 Feet from SN (circle one) Line of Section
4620 Feet from EW (circle one) Line of Section

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

Lease Name OXY-LB Well # 1-36

Field Name Unknown

Producing Formation LKC

Elevation: Ground 2695 KB 2704

Total Depth 5982 PBDT 5690

Amount of Surface Pipe Set and Cemented at 1535 Feet

Multiple Stage Cementing Collar Used? xx Yes No

If yes, show depth set 4900 Feet

If Alternate II completion, cement circulated from 4900

feet depth to surface w/ 155 sx cmt.

Drilling Fluid Management Plan ALT 1 JH 12-13-94
(Data must be collected from the Reserve Pit)

Chloride content 5500 ppm Fluid volume 2500 bbls

Dewatering method used evaporation

Location of fluid disposal if hauled offsite:

Operator Name KCC

Lease Name AUG 9 License No.

County Docket

Operator: License # 30606

Name: Murfin Drilling Co., Inc.

Address 250 N. Water, Suite 300

City/State/Zip Wichita, KS 67202

Purchaser: NCRA

Operator Contact Person: Larry M. Jack

Phone () 267-3241

Contractor: Name: Murfin Drilling Co., Inc.

License: 30606

Wellsite Geologist:

Designate Type of Completion
 New Well Re-Entry Workover

Oil SWD SIOW Temp. Abd.
 Gas ENHR SIGW
 Dry Other (Core, MSW, Expl., Cathodic, etc)

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

Operator:

Well Name:

Comp. Date Old TD Depth

Deepening Re-perf. Conv. to Inj/SWD
 Plug Back FROM PBDT
 Cemented Docket No.
 Dual Completion Docket No.
 Other (SWD or Inj?) Docket No.

4/18/94 5/8/94 6/2/94
Spud Date Date Reached TD Completion Date

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801-2-6 1995

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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-11 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 CONSERVATION DIVISION
Title Larry M. Jack, Prod. Mgr. Date 8/9/94

Subscribed and sworn to before me this 9 day of August
19 94.

Notary Public Kerran Redington
Kerran Redington
Date Commission Expires 2/6/98

KERRAN REDINGTON
NOTARY PUBLIC
STATE OF KANSAS
My Appt. Exp. 2-6-98

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

Operator Name Murfin Drilling Co., Inc. Lease Name OXY-LB Well # 1-36
 Sec. 36 Twp. 32S Rge. 33W 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 Yes No (Attach Additional Sheets.)
 Samples Sent to Geological Survey Yes No
 Cores Taken Yes No
 Electric Log Run Yes No (Submit Copy.)

Log Formation (Top), Depth and Datum Sample
 Name Top Datum

List All E.Logs Run: BOREHOLE COMPENSATED SONIC
PHASOR INDUCTION
 See attached. | See attached.
CEMENT EVALUATION
COMPENSATED NEUTRON
MICRO

CASING RECORD <input checked="" 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 1/2	8 5/8	24#	1535	Lite Common	550 150	3%cc, 2% gel
Production	7 7/8	5 1/2	15.5#	5956	Class H	330	10% salt,

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	4719-22'	250 gal. MOD-202	4719-22'
4	4652-54'		

TUBING RECORD 2 7/8 Size Set At 4686 Packer At Liner Run Yes No
 Date of First, Resumed Production, SWD or Inj. 8/5/94 Producing Method Flowing Pumping Gas Lift Other (Explain)
 Estimated Production Per 24 Hours Oil 10 Bbls. Gas Mcf. Water 130 Bbls. Gas-Oil Ratio Gravity

Disposition of Gas: N/A METHOD OF COMPLETION Open Hole Perf. Dually Comp. Commingled Vented Sold Used on Lease (If vented, submit ACO-18.) Other (Specify) Production Interval as above

Murfin Drilling Company, Inc.
Suite 300
250 North Water Street
Wichita, Kansas 67202

OCT 26 1995

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Gentlemen:

I have witnessed the drilling and examined samples on the Oxy-LB No. 1-36 from 3000' to a total depth of 5982' in Spergen (Mississippian) rocks. A sample log with lithological descriptions, two foot drilling time, gas detector readings and other pertinent data was plotted on a 5"=100' scale from 3000' to T.D.

Samples on this test are being sent to the Kansas Geological Society Sample Library, 4150 Monroe Street, Wichita, Kansas 67209.

Geological tops corrected to the electrical survey and correlated with the Anadarko Petroleum Corporation - Frazier "B" No. 1 (4620' FS&EL of Section 1-T33S-R33W, Seward County, Kansas) a 7310' Arbuckle test about 1/2 mile south are as follows:

Formation	Murfin/Canyon No. 1-36 Oxy-LB	Anadarko Frazier "B" No. 1
Elevation-Datum	2703 KB	2738 GL
Base of Stone Corral	1538 +1165	1541 +1197
Wellington	2056 +647	2109 +629
Wolfcamp	2460 +243	2513 +225
Krider	2537 +166	2592 +146
Winfield	2587 +116	2643 +95
Council Grove Mark	3154 -451	3206 -468
Base of Heebner	4060 -1357	4106 -1368
Toronto	4070 -1365	4114 -1376
Lansing	4185 -1480	4229 -1491
Iola	4460 -1757	4508 -1770
Swope	4636 -1933	4697 -1959
Hertha	4717 -2014	4764 -2026
Marmaton	4816 -2113	4866 -2128
Cherokee	4984 -2281	5025 -2287
Atoka	5184 -2481	5232 -2494
Morrow	5346 -2643	5394 -2656
Chester	5460 -2757	5554 -2816
Ste. Genevieve	5659 -2956	5658 -2920
St. Louis	5716 -3013	5766 -3028
Spergen	5862 -3159	5911 -3173
Arbuckle	NDE	7253 -4515
T.D. - E.S.	5986 -3283	7296 -4558
T.D. - Driller	5982 -3279	7310 -4572

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WICHITA, KS

Zones of interest are discussed below:

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

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ORIGINAL

API #15-175-21395

Well Name OXY-LB #1-36 Test No. 1 Date 4/22/94
 Company MURFIN DRILLING CO INC Zone COUNCIL GROV
 Address 250 N WATER SWT #300 WICHITA KS 67202 Elevation 2704
 Co. Rep./Geo. PAUL GODOWIC Cont. MURFIN DRLG RIG #21 Est. Ft. of Pay 4
 Location: Sec. 36 Twp. 32S Rge. 33W Co. SEWARD State KS

Interval Tested 3148-3183 Drill Pipe Size 4.5" XH
 Anchor Length 35 Wt. Pipe I.D. - 2.7 Ft. Run _____
 Top Packer Depth 3143 Drill Collar - 2.25 Ft. Run 554
 Bottom Packer Depth 3148 Mud Wt. 9.2 lb/Gal.
 Total Depth 3183 Viscosity 50 Filtrate 9

Tool Open @ 6:55 PM Initial Blow STRONG BLOW - BOTTOM IN 2 MINUTES
ISI: BLED OFF BLOW FOR 10 MIN-VERY WEAK SURFACE BLOW IN 20 MINUTES
 Final Blow FAIR BLOW BUILT TO BOTTOM IN 5 MINUTES
FSI: BLED OFF BLOW FOR 20 MINUTES-NO BLOW BACK

Recovery - Total Feet 1460 Flush Tool? NO

Rec. 15 Feet of SLTLY OIL & GAS CUT WTRY MUD 2% GAS / 1% OIL / 52% WTR / 45% MUD
 Rec. 1445 Feet of SALT WATER KANSAS CORPORATION COMMISSION
 Rec. _____ Feet of _____
 Rec. _____ Feet of RELEASED AUG 10 1994 AUG 9
 Rec. _____ Feet of _____ OCT 26 1995
 BHT 100 °F FROM CONFIDENTIAL °API @ WICHITA, KS °F Corrected Gravity _____ °API
 RW 0.17 @ 59 °F Chlorides 0000 ppm Recovery Chlorides 2250 ppm System

(A) Initial Hydrostatic Mud 1589.6 PSI AK1 Recorder No. 13615 Range 4575

(B) First Initial Flow Pressure 170.1 PSI @ (depth) 3151 w / Clock No. 25813

(C) First Final Flow Pressure 486.9 PSI AK1 Recorder No. 11038 Range 5075

(D) Initial Shut-in Pressure 814.9 PSI @ (depth) 3180 w / Clock No. 25814

(E) Second Initial Flow Pressure 579.4 PSI AK1 Recorder No. _____ Range _____

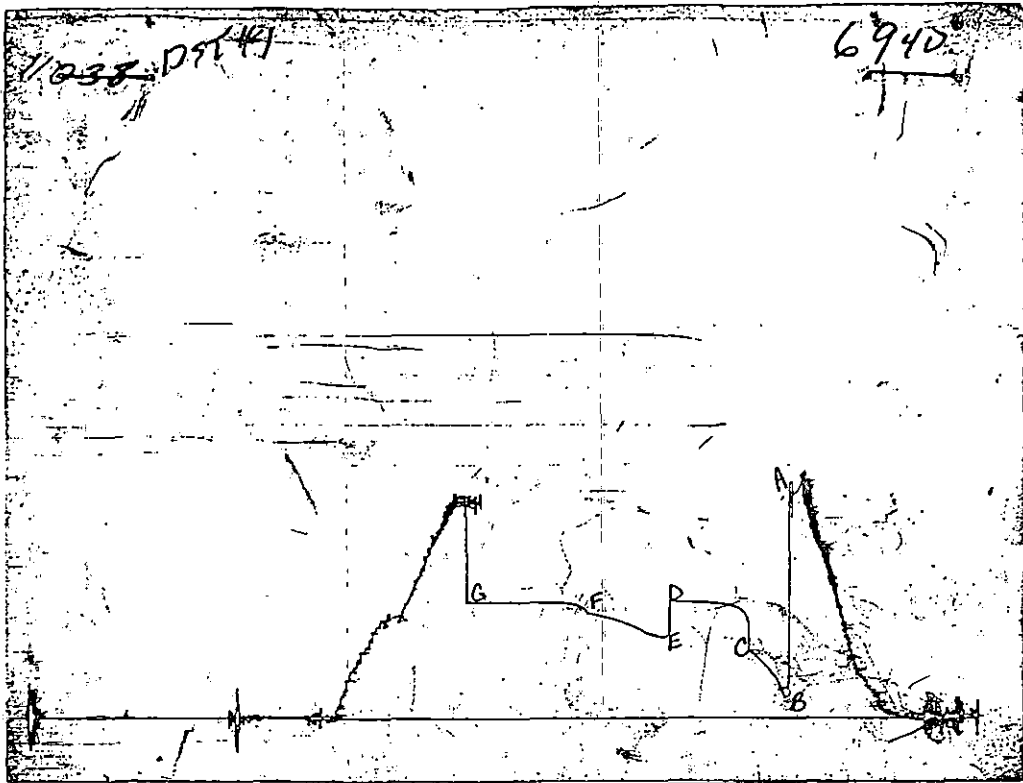
(F) Second Final Flow Pressure 738.1 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 817.5 PSI Initial Opening 30 Final Flow 60

(H) Final Hydrostatic Mud 1492.8 PSI Initial Shut-in 60 Final Shut-in 90

Our Representative ROBERT COLLINS

CHART PAGE



This is an actual photograph of recorder chart #11038

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(A) INITIAL HYDROSTATIC MUD	1524	1589.6
(B) FIRST INITIAL FLOW PRESSURE	163	170.1
(C) FIRST FINAL FLOW PRESSURE	481	486.9
(D) INITIAL CLOSED-IN PRESSURE	817	814.9
(E) SECOND INITIAL FLOW PRESSURE	585	579.4
(F) SECOND FINAL FLOW PRESSURE	740	738.1
(G) FINAL CLOSED-IN PRESSURE	830	817.5
(H) FINAL HYDROSTATIC MUD	1448	1492.8

FLUID SAMPLER DATA

ORIGINAL

CONFIDENTIAL

Ticket No.: 6940 Date: 4/22/94
 Company: MURFIN DRILLING CO INC
 Lease: OXY-LB #1-36 Test No.: 1
 County: SEWARD Sec.: 36 Twp.: 32S Rng.: 33W

SAMPLER RECOVERY

Gas
 Oil
 Mud
 Water 4000
 Other
 Pressure
 TOTAL 4000

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 OCT 26 1995
 FROM CONFIDENTIAL

SAMPLER ANALYSIS

Resistivity 1.7 ohms@ 59 F
 Chlorides 100000 ppm.
 Gravity corrected @60F

PIT MUD ANALYSIS

Chlorides 2250
 Resistivity ohms@
 Viscosity 50
 Mud Wt. 9.2
 Filtrate 9
 Other

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 AUG 10 1994
 CONSERVATION DIVISION
 WICHITA, KS

PIPE RECOVERY

TOP

Resistivity 0.313 ohms@ 59 F
 Chlorides 30000 ppm

MIDDLE

Resistivity 0.17 ohms@ 59 F
 Chlorides 100000 ppm

BOTTOM

Resistivity 0.17 ohms@ 59 F
 Chlorides 100000 ppm

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

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ORIGINAL

Drill-Stem Test Data

Well Name OXY-LB #1-36 Test No. 2 Date 4/25/94
 Company MURFIN DRILLING CO INC Zone LANSING
 Address 250 N WATER SWT #300 WICHITA KS 67202 Elevation 2704
 Co. Rep./Geo. PAUL GODOWIC Cont. MURFIN DRLG RIG #21 Est. Ft. of Pay 5
 Location: Sec. 36 Twp. 32S Rge. 33W Co. SEWARD State KS

Interval Tested 4177-4220 Drill Pipe Size 4.5" XH
 Anchor Length 43 Wt. Pipe I.D. - 2.7 Ft. Run _____
 Top Packer Depth 4172 Drill Collar - 2.25 Ft. Run 527
 Bottom Packer Depth 4177 Mud Wt. 9 lb/Gal.
 Total Depth 4220 Viscosity 37 Filtrate 9.8

Tool Open @ 12:05 AM Initial Blow VERY WEAK SURFACE BLOW 1/4" THROUGHOUT

Final Blow NO BLOW

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Recovery - Total Feet 5

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Rec. 5 Feet of DRILLING MUD

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CONSERVATION DIVISION
WICHITA, KS

Rec. _____ Feet of _____

Rec. _____ Feet of _____

Rec. _____ Feet of _____

Rec. _____ Feet of _____

CONSERVATION DIVISION
WICHITA, KS

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BHT 105 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 2750 ppm System

(A) Initial Hydrostatic Mud 1994.2 PSI AK1 Recorder No. 13337 Range 3974

(B) First Initial Flow Pressure 42.4 PSI @ (depth) 4180 w / Clock No. 25810

(C) First Final Flow Pressure 42.4 PSI AK1 Recorder No. 10337 Range 4050

(D) Initial Shut-in Pressure 1084.8 PSI @ (depth) 4217 w / Clock No. 14389

(E) Second Initial Flow Pressure 41.4 PSI AK1 Recorder No. _____ Range _____

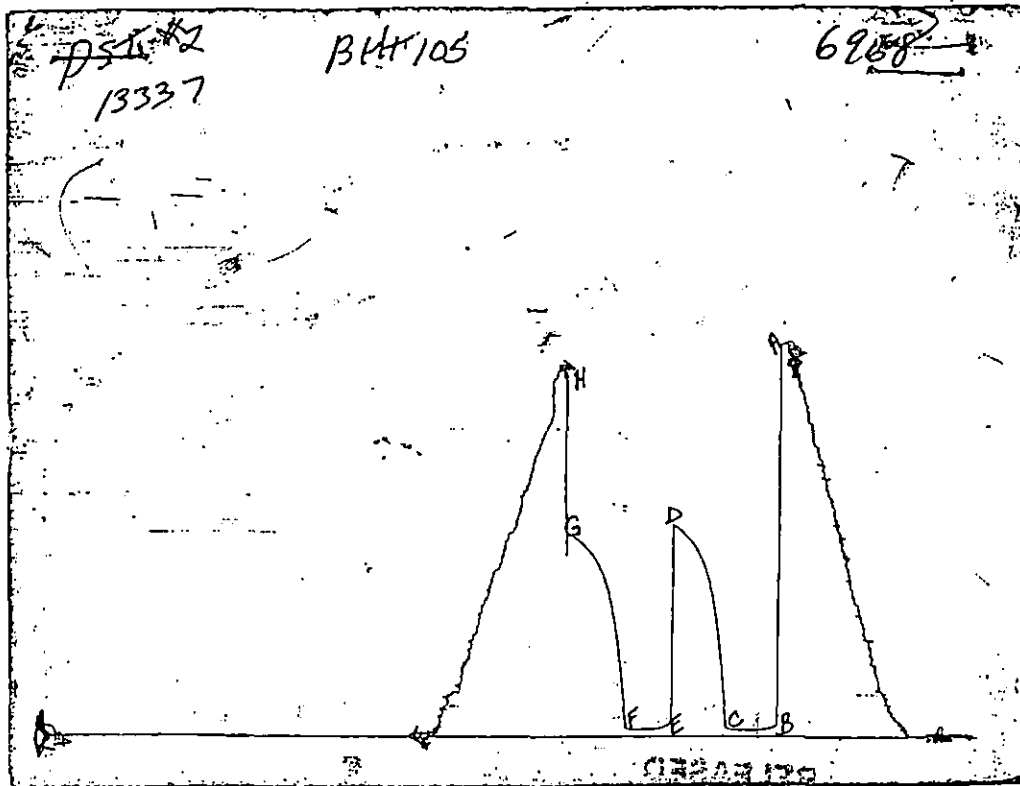
(F) Second Final Flow Pressure 41.4 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 1045.9 PSI Initial Opening 30 Final Flow 30

(H) Final Hydrostatic Mud 1875.1 PSI Initial Shut-in 45 Final Shut-in 45

Our Representative ROBERT COLLINS

CHART PAGE



This is an actual photograph of recorder chart #13337

FROM COMPLETION

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2012	1994.2
(B) FIRST INITIAL FLOW PRESSURE	30	42.4
(C) FIRST FINAL FLOW PRESSURE	30	42.4
(D) INITIAL CLOSED-IN PRESSURE	1077	1084.8
(E) SECOND INITIAL FLOW PRESSURE	30	41.4
(F) SECOND FINAL FLOW PRESSURE	30	41.4
(G) FINAL CLOSED-IN PRESSURE	1047	1045.9
(H) FINAL HYDROSTATIC MUD	1858	1875.1

FLUID SAMPLER DATA

CONFIDENTIAL

ORIGINAL

Ticket No.: 6968

Date: 4/25/94

Company: MURFIN DRILLING CO INC

KCC

Lease: OXY-LB #1-36

Test No.: 2

AUG 9

County: SEWARD

Sec.: 36

Twp.: 32S

Rng.: 33W

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SAMPLER RECOVERY

Gas

Oil

Mud 4000

Water

Other

Pressure

TOTAL 4000

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PIT MUD ANALYSIS

Chlorides 2750

Resistivity ohms@ F

Viscosity 37

Mud Wt. 9

Filtrate 9.8

Other

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WICHITA, KS

PIPE RECOVERY

TOP

Resistivity ohms@ F

Chlorides ppm

MIDDLE

Resistivity ohms@ F

Chlorides ppm

BOTTOM

Resistivity ohms@ F

Chlorides ppm

SAMPLER ANALYSIS

Resistivity ohms@ F

Chlorides ppm.

Gravity corrected @60F

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

ORIGINAL CONFIDENTIAL

Well Name OXY-LB #1-36 Test No. 3 Date 4/27/94
 Company MURFIN DRILLING CO INC Zone SWOPE
 Address 250 N WATER SWT #300 WICHITA KS 67202 Elevation 2704
 Co. Rep./Geo. PAUL GODOWIC Cont. MURFIN DRLG RIG #21 Est. Ft. of Pay 5
 Location: Sec. 36 Twp. 32S Rge. 33W Co. SEWARD State KS

Interval Tested	<u>4628-4677</u>	Drill Pipe Size	<u>4.5" XH</u>
Anchor Length	<u>49</u>	Wt. Pipe I.D. - 2.7 Ft. Run	<u>554</u>
Top Packer Depth	<u>4326</u>	Drill Collar - 2.25 Ft. Run	<u>9.1</u>
Bottom Packer Depth	<u>4628</u>	Mud Wt.	<u>49</u> lb/Gal.
Total Depth	<u>4677</u>	Viscosity	<u>8.4</u>

Tool Open @ 7:20pm Initial Blow OFF BOTTOM IN 10 SECONDS
GAS TO SURFACE IN 3 MINUTES OIL TO SURFACE IN 7 MINUTES
 Final Blow OFF BOTTOM ON - OPEN
OIL TO SURFACE IN 5 MINUTES

Recovery - Total Feet 4600 Flush Tool? NO

Rec. <u>4510</u>	Feet of	<u>GAS AND OIL</u>
Rec. <u>90</u>	Feet of	<u>WATER</u>
Rec. _____	Feet of	_____
Rec. _____	Feet of	_____
Rec. _____	Feet of	_____

BHT 119 °F Gravity 45 °API @ 70 °F Corrected Gravity 44 °API
 RW 0.12 @ 70 °F Chlorides 70000 ppm Recovery Chlorides 3000 ppm System

(A) Initial Hydrostatic Mud	<u>2212.6</u> PSI	AK1 Recorder No.	<u>11057</u>	Range	<u>4500</u>
(B) First Initial Flow Pressure	<u>1147.9</u> PSI	@ (depth)	<u>4630</u>	w / Clock No.	<u>30401</u>
(C) First Final Flow Pressure	<u>1146.8</u> PSI	AK1 Recorder No.	<u>11058</u>	Range	<u>4500</u>
(D) Initial Shut-in Pressure	<u>1319.5</u> PSI	@ (depth)	<u>4672</u>	w / Clock No.	<u>25108</u>
(E) Second Initial Flow Pressure	<u>1088.5</u> PSI	AK1 Recorder No.	_____	Range	_____
(F) Second Final Flow Pressure	<u>1062.7</u> PSI	@ (depth)	_____	w / Clock No.	_____
(G) Final Shut-in Pressure	<u>1271.2</u> PSI	Initial Opening	<u>30</u>	Final Flow	<u>60</u>
(H) Final Hydrostatic Mud	<u>2168.5</u> PSI	Initial Shut-in	<u>60</u>	Final Shut-in	<u>180</u>

Our Representative MARK HERSKOWITZ

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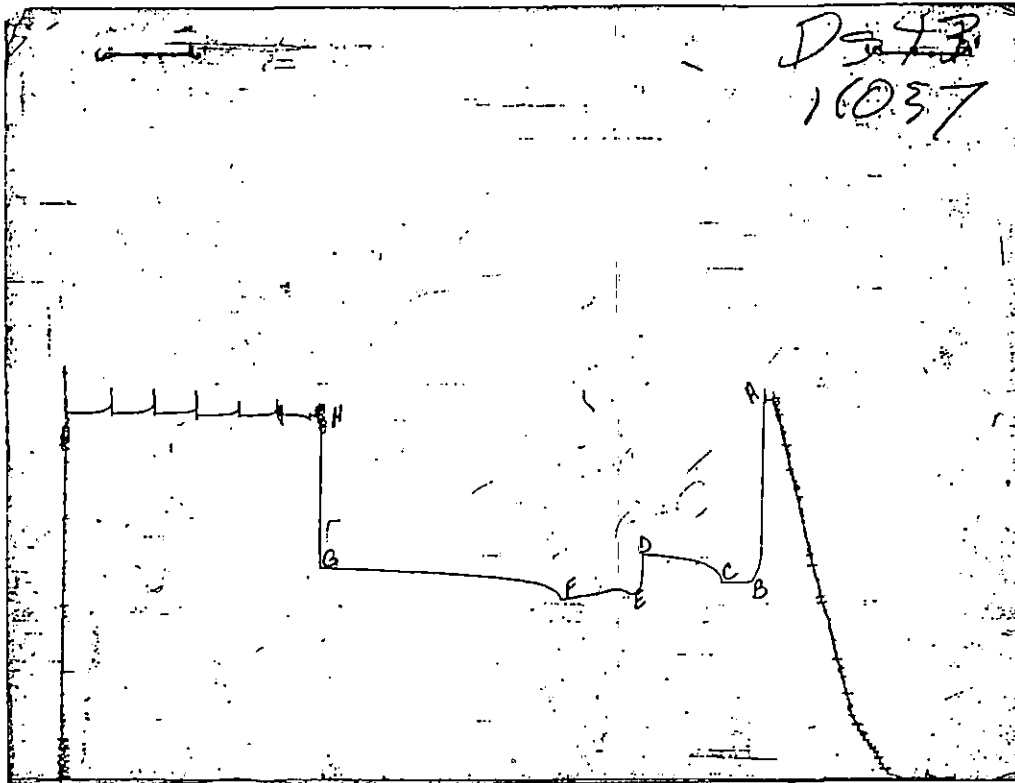
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CHART PAGE



This is an actual photograph of recorder chart #11057

FIELD READING

OFFICE READING

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2219	2212.6
(B) FIRST INITIAL FLOW PRESSURE	1152	1147.9
(C) FIRST FINAL FLOW PRESSURE	1152	1146.8
(D) INITIAL CLOSED-IN PRESSURE	1309	1319.5
(E) SECOND INITIAL FLOW PRESSURE	1096	1088.5
(F) SECOND FINAL FLOW PRESSURE	1051	1062.7
(G) FINAL CLOSED-IN PRESSURE	1230	1271.2
(H) FINAL HYDROSTATIC MUD	2185	2168.5

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

MURFIN DRILLING CO INC

OXY-LB #1-36

DST 3

36

32S

33W

SEWARD KS

ELEVATION:	2704	KB	EST. PAY	5	FT
DATUM:	-1927		ZONE TESTED:	SWOPE	
TEST INTERVAL:	4628-4677		TIME INTERVALS:	30-60-60-180	
RECORDER DEPTH:	4630		VISCOSITY:	0.81	CP
BOTTOM HOLE TEMP:	119		HOLE SIZE:	7.875	IN

CUBIC FEET OF GAS IN PIPE:	64750				
TOTAL FEET OF RECOVERY:	4600.00	CORRECTED PIPE FILLUP:	3044.986		
TOTAL BARRELS OF RECOVERY:	60.24	CORR. BARRELS OF RECOVERY:	38.131	BBL	
BARRELS IN DRILL PIPE:	57.53	API GRAVITY:	44		
BARRELS IN WEIGHT PIPE:	0.00	FLUID GRADIENT:	0.349		
BARRELS IN DRILL COLLARS:	2.71				
GAS OIL RATIO:	1074.81	CU.FT/BBL			
BUBBLE POINT PRESSURE:	1340				

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UNCORRECTED INITIAL PRODUCTION:		963.89	BBL
INITIAL PRODUCTION CORRECTED TO FINAL FLOW PRESSURE:		10.10	BBL/DAY
INITIAL PRODUCTION CORRECTED TO PSEUDO STEADY FLOW STATE:			

INITIAL SLOPE	273.9	PSI/CYCL	FINAL SLOPE	399.6	PSI/CYCLE
INITIAL P*	1367.7	PSI	FINAL P*	1339.7	PSI

TRANSMISSIBILITY	248.25	(MD.-FT./CP.)
PERMEABILITY	40.32	(MD.)
INDICATED FLOW CAPACITY	201.58	(MD.FT)
PRODUCTIVITY INDEX	0.28	(BARREL/DAY/PSI)
DAMAGE RATIO	0.13	
RADIUS OF INVESTIGATION	60.24	(FT,)
POTENTIOMETRIC SURFACE	1180.75	(FT.)
DRAWDOWN FACTOR	2.051	(%)
THEORETICAL POTENTIAL FROM FINAL FLOW PRESSURE	0.00	
THEORETICAL POTENTIAL FROM PSEUDO STEADY FLOW STATE	0.00	

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WICHITA, KS

INITIAL FLOW

RECORDER 11057

DST # 3

TIME(MIN) PRESSURE <> PRESSURE

0	1147.9	1147.9
3	1147.9	0.0
6	1147.9	0.0
9	1147.9	0.0
12	1147.9	0.0
15	1146.8	-1.1
18	1145.7	-1.1
21	1144.6	-1.1
24	1146.8	2.2

RELEASED

NO 8 8 100

FINAL FLOW FROM CONTROL

RECORDER 11057

DST # 3

TIME(MIN) PRESSURE <> PRESSURE

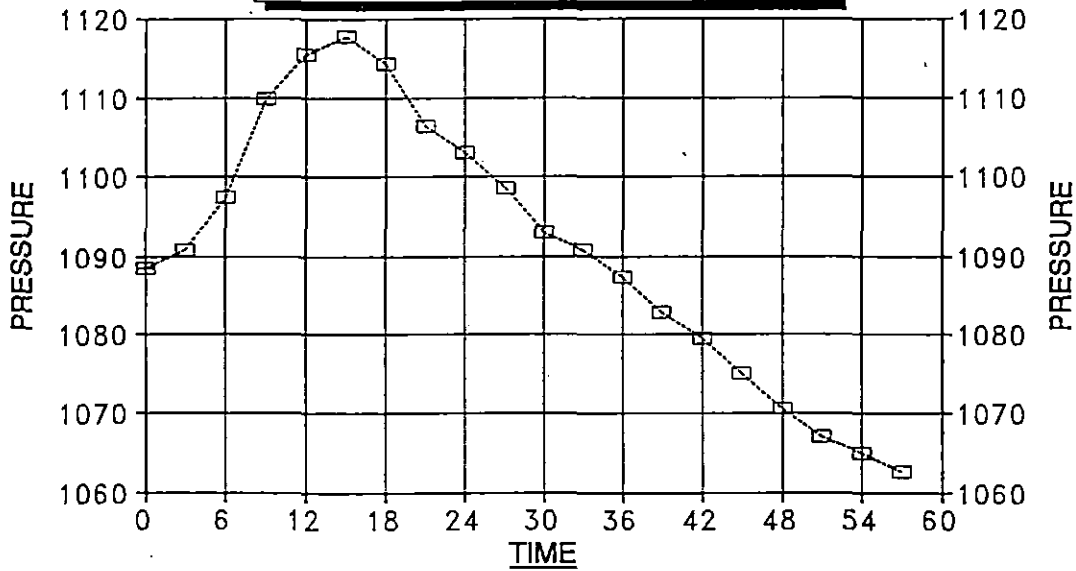
0	1088.5	1088.5
3	1090.8	2.3
6	1097.5	6.7
9	1109.8	12.3
12	1115.4	5.6
15	1117.7	2.3
18	1114.3	-3.4
21	1106.4	-7.9
24	1103.1	-3.3
27	1098.6	-4.5
30	1093.0	-5.6
33	1090.8	-2.2
36	1087.4	-3.4
39	1082.9	-4.5
42	1079.5	-3.4
45	1075.1	-4.4
48	1070.6	-4.5
51	1067.2	-3.4
54	1065.0	-2.2
--	1062.7	0.0

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DELTA T DELTA P

FINAL FLOW / DST #3



--□-- OXY-LB #1-36

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OXY-LB #1-36
INITIAL

DST #3
SHUTIN
30 INITIAL FLOW TIME SLOPE 273.9 PSI/CYCLE
P* 1367.74 PSI

Log <>

TIME(MIN)	Pws (psi)	Horn T	PRESSURE	Horn T
3	1205.1	1.041	1205.1	11
6	1234.3	0.778	29.2	6
9	1243.2	0.637	8.9	4
12	1254.4	0.544	11.2	4
15	1264.5	0.477	10.1	3
18	1272.4	0.426	7.9	3
21	1275.7	0.385	3.3	2
24	1281.3	0.352	5.6	2
27	1286.9	0.325	5.6	2
30	1291.4	0.301	4.5	2
33	1294.8	0.281	3.4	2
36	1298.2	0.263	3.4	2
39	1301.5	0.248	3.3	2
42	1304.9	0.234	3.4	2
45	1308.2	0.222	3.3	2
48	1311.6	0.211	3.4	2
X 51	1312.7	0.201	1.1	2
54	1315.0	0.192	2.3	2
57	1317.2	0.184	2.2	2
X 60	1319.5	0.176	2.3	2

OXY-LB #1-36
FINAL

DST #3
SHUTIN
90 TOTAL FLOW TIME SLOPE 399.6 PSI/CYCLE
P* 1339.7 PSI

Log <>

TIME(MIN)	Pws (psi)	Horn T	PRESSURE	Horn T
6	1115.4	1.204	1115.4	16
12	1141.2	0.929	25.8	9
18	1159.1	0.778	17.9	6
24	1168.1	0.677	9.0	5
30	1174.8	0.602	6.7	4
36	1183.8	0.544	9.0	4
42	1188.3	0.497	4.5	3
48	1195.0	0.459	6.7	3
54	1201.7	0.426	6.7	3
60	1206.2	0.398	4.5	3
66	1210.7	0.374	4.5	2
72	1215.2	0.352	4.5	2
78	1219.7	0.333	4.5	2
84	1224.2	0.316	4.5	2
90	1228.6	0.301	4.4	2
96	1230.9	0.287	2.3	2
102	1234.3	0.275	3.4	2
108	1237.6	0.263	3.3	2
X 114	1238.7	0.253	1.1	2
120	1241.0	0.243	2.3	2
126	1243.2	0.234	2.2	2
132	1246.6	0.226	3.4	2
138	1249.9	0.218	3.3	2
144	1255.6	0.211	5.7	2
150	1257.8	0.204	2.2	2
156	1258.9	0.198	1.1	2
162	1261.2	0.192	2.3	2
168	1264.5	0.186	3.3	2
174	1266.8	0.181	2.3	2
180	1269.0	0.176	2.2	2
X 186	1271.2	0.171	2.2	1

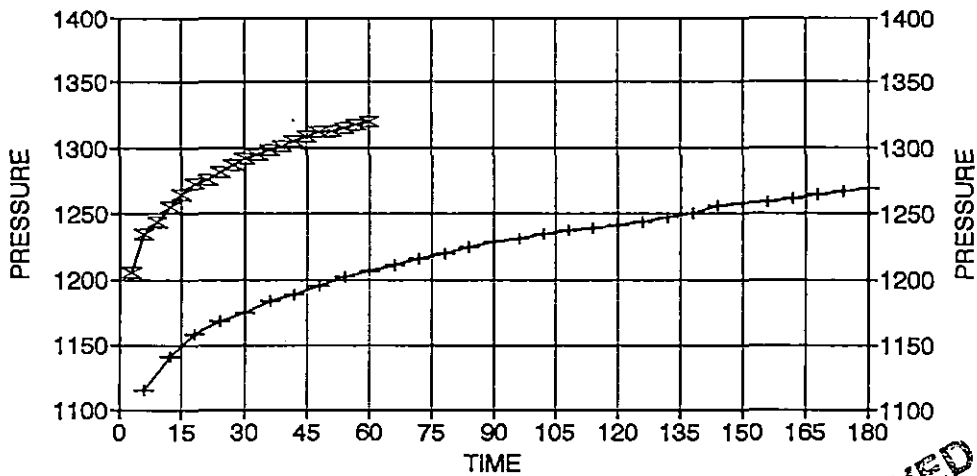
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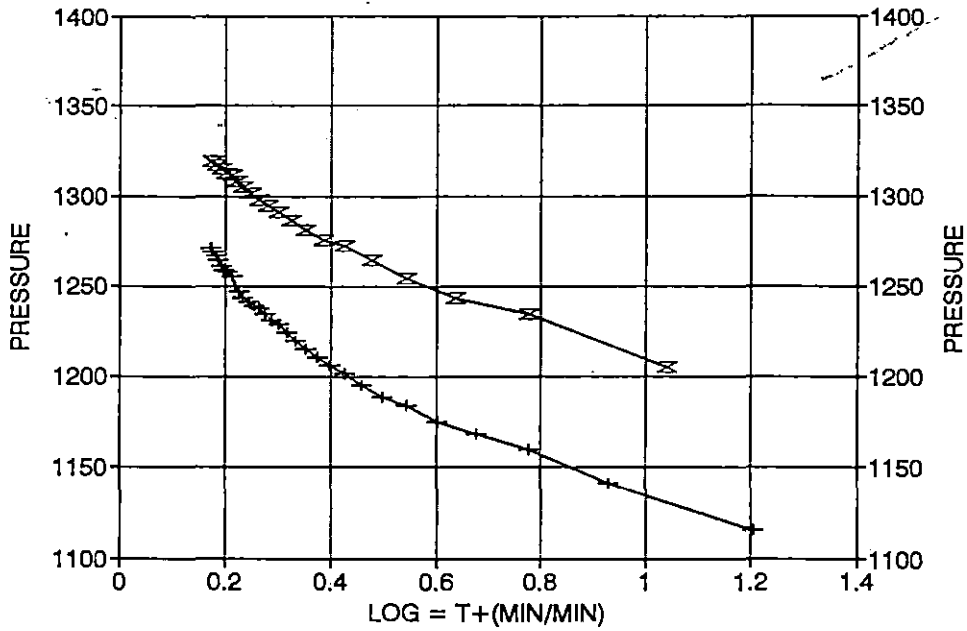
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DELTA T DELTA P



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FLUID SAMPLER DATA

03281377

241 2 8 100

Ticket No.: 6847

Date: 4/27/94

Company: MURFIN DRILLING CO INC

Lease: OXY-LB #1-36

Test No.: 3

County: SEWARD

Sec.: 36

Twp.: 32S

Rng.: 33W

SAMPLER RECOVERY

Gas 1.3 CU FT

Oil 3400

Mud

Water

Other

Pressure 800

TOTAL 4000

SAMPLER ANALYSIS

Resistivity ohms@ F

Chlorides ppm.

Gravity 44 corrected @60F

PIT MUD ANALYSIS

Chlorides 3000

Resistivity 1.5 ohms@ 95 F

Viscosity 49

Mud Wt. 9.1

Filtrate 8.4

Other

PIPE RECOVERY

TOP

Resistivity ohms@ F

Chlorides ppm

MIDDLE

Resistivity ohms@ F

Chlorides ppm

BOTTOM

Resistivity 0.12 ohms@ 70 F

Chlorides 70000 ppm

GAS VOLUME REPORT

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MURFIN DRILLING CO INC

OXY-LB #1-36

DST # 3

MIN	PSIG	ORIFICE	MCF/D
3	7	1.5	1036
10	GAS TO SURFACE IN 3 MIN		
15	OIL TO SURFACE IN 7 MIN		
20			
25			
30			
35			
40			
45			
50			
55			
60			

MIN	PSIG	ORIFICE	MCF/D
5	OIL TO SURFACE IN 3 MIN		
10			
15			
20			
25			
30			
35			
40			
45			
50			
55			
60			

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WICHITA, KS

Remarks:

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

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Well Name OXY-LB #1-36 Test No. 4 Date 4/29/94
 Company MURFIN DRILLING CO INC Zone _____
 Address 250 N WATER SWT #300 WICHITA KS 67202 Elevation 2704
 Co. Rep./Geo. PAUL GODOWIC Cont. MURFIN DRLG RIG #21 Est. Ft. of Pay _____
 Location: Sec. 36 Twp. 32S Rge. 33W Co. SEWARD State KS

Interval Tested 4702-4730 Drill Pipe Size 4.5" XH
 Anchor Length 28 Wt. Pipe I.D. - 2.7 Ft. Run _____
 Top Packer Depth 4697 Drill Collar - 2.25 Ft. Run 554
 Bottom Packer Depth 4702 Mud Wt. 9 lb/Gal.
 Total Depth 4730 Viscosity 47 Filtrate 9.8

Tool Open @ 5:12 AM Initial Blow OFF BOTTOM IN 15 SECONDS
GAS TO SURFACE IN 9 MINUTES - OIL MIST IN 12 MINUTES
 Final Blow OFF BOTTOM ON OPEN-OIL TO SURFACE ON FINAL SHUTIN
PSI ON 1/2" ORIFICE = 129 MCF/DAY

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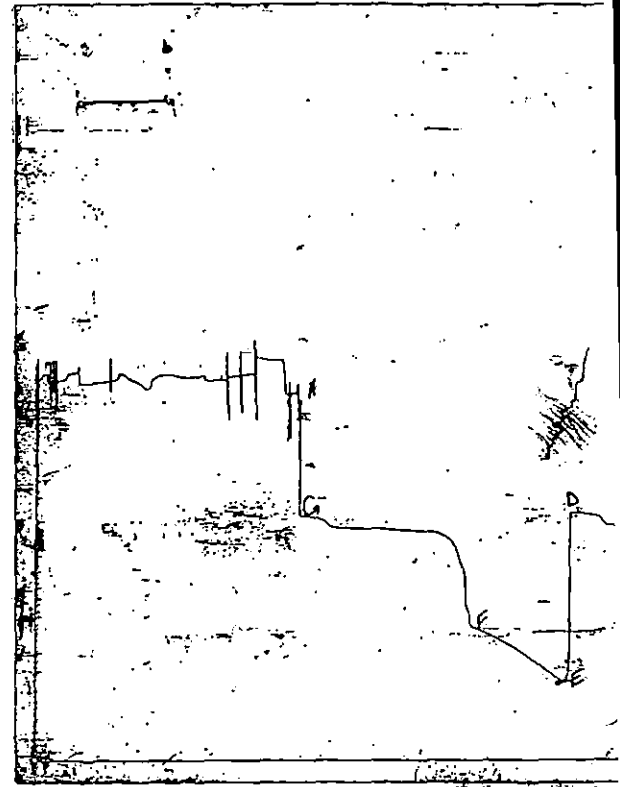
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Recovery - Total Feet 4674 Flush Tool? NO
 Rec. 4554 Feet of GAS AND OIL
 Rec. 60 Feet of OIL & MUD CUT WATER 60% WTR/ 30% MUD
 Rec. 60 Feet of WATER
 Rec. _____ Feet of (FLUID TO SURFACE IN 58 MIN ON FINAL FLOW)
 Rec. _____ Feet of _____

BHT 120 °F Gravity 46 °API @ 70 °F Corrected Gravity 45 °API
 RW 0.15 @ 63 °F Chlorides 65000 ppm Recovery Chlorides 6000 ppm System

(A) Initial Hydrostatic Mud 2223.9 PSI AK1 Recorder No. 11057 Range 4500
 (B) First Initial Flow Pressure 204.0 PSI @ (depth) 4704 w / Clock No. 30401
 (C) First Final Flow Pressure 372.1 PSI AK1 Recorder No. 11058 Range 4500
 (D) Initial Shut-in Pressure 1492.1 PSI @ (depth) 4725 w / Clock No. 25108
 (E) Second Initial Flow Pressure 477.5 PSI AK1 Recorder No. _____ Range _____
 (F) Second Final Flow Pressure 805.8 PSI @ (depth) _____ w / Clock No. _____
 (G) Final Shut-in Pressure 1455.1 PSI Initial Opening 30 Final Flow 67
 (H) Final Hydrostatic Mud 2213.7 PSI Initial Shut-in 60 Final Shut-in 120

Our Representative MARK HERSKOWITZ



This is an actual photograph

- (A) INITIAL HYDROSTATIC MUD
- (B) FIRST INITIAL FLOW PRESSURE
- (C) FIRST FINAL FLOW PRESSURE
- (D) INITIAL CLOSED-IN PRESSURE
- (E) SECOND INITIAL FLOW PRESSURE
- (F) SECOND FINAL FLOW PRESSURE
- (G) FINAL CLOSED-IN PRESSURE
- (H) FINAL HYDROSTATIC MUD

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

MURFIN DRILLING CO INC

OXY-LB #1-36

DST 4

36

32S

33W

SEWARD KS

ELEVATION:	2704	KB	EST. PAY	12	FT
DATUM:	-1927		ZONE TESTED:	SWOPE	
TEST INTERVAL:	4702-4730		TIME INTERVALS:	30-60-67-120	
RECORDER DEPTH:	4630		VISCOSITY:	1.39	CP
BOTTOM HOLE TEMP:	120		HOLE SIZE:	7.875	IN

CUBIC FEET OF GAS IN PIPE:	8690				
TOTAL FEET OF RECOVERY:	4674.00		CORRECTED PIPE FILLUP:	2308.883	
TOTAL BARRELS OF RECOVERY:	61.30		CORR. BARRELS OF RECOVERY:	27.665	BBL
BARRELS IN DRILL PIPE:	58.59		API GRAVITY:	45	
BARRELS IN WEIGHT PIPE:	0.00		FLUID GRADIENT:	0.349	
BARRELS IN DRILL COLLARS:	2.71				
GAS OIL RATIO:	141.77	CU.FT/BBL			
BUBBLE POINT PRESSURE:	583				
UNCORRECTED INITIAL PRODUCTION:				909.95	BBL
INITIAL PRODUCTION CORRECTED TO FINAL FLOW PRESSURE:				410.70	BBL/DAY
INITIAL PRODUCTION CORRECTED TO PSEUDO STEADY FLOW STATE:				268.733	

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INITIAL SLOPE	696.6	PSI/CYCL	FINAL SLOPE	717.0	PSI/CYCLE
INITIAL P*	1614.8	PSI	FINAL P*	1632.9	PSI

TRANSMISSIBILITY	93.13	(MD.-FT./CP.)
PERMEABILITY	10.77	(MD.)
INDICATED FLOW CAPACITY	129.20	(MD.FT)
PRODUCTIVITY INDEX	0.11	(BARREL/DAY/PSI)
DAMAGE RATIO	0.21	
RADIUS OF INVESTIGATION	32.32	(FT,)
POTENTIOMETRIC SURFACE	1860.64	(FT.)
DRAWDOWN FACTOR	-1.121	(%)
THEORETICAL POTENTIAL FROM FINAL FLOW PRESSURE	0.00	
THEORETICAL POTENTIAL FROM PSEUDO STEADY FLOW STATE	0.00	

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INITIAL FLOW

RECORDER 11057

DST # 4

TIME(MIN)	PRESSURE	<> PRESSURE
0	204.0	204.0
3	204.0	0.0
6	205.1	1.1
9	208.5	3.4
12	224.2	15.7
15	255.6	31.4
18	285.8	30.2
21	315.0	29.2
24	337.4	22.4
27	353.1	15.7
30	372.1	19.0

FINAL FLOW

RECORDER 11057

DST # 4

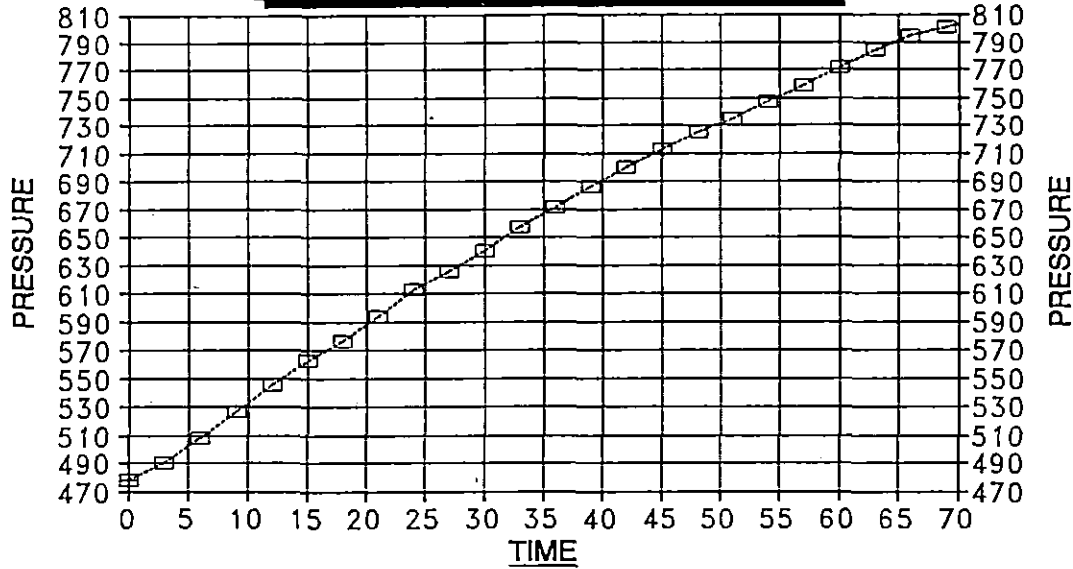
TIME(MIN)	PRESSURE	<> PRESSURE
0	477.5	477.5
3	489.8	12.3
6	507.7	17.9
9	526.7	19.0
12	545.7	19.0
15	562.5	16.8
18	577.0	14.5
21	593.7	16.7
24	612.7	19.0
27	626.1	13.4
30	640.6	14.5
33	657.3	16.7
36	671.8	14.5
39	686.3	14.5
42	699.7	13.4
45	713.1	13.4
48	725.4	12.3
51	735.5	10.1
54	747.7	12.2
57	758.9	11.2
60	772.3	13.4
63	784.5	12.2
66	794.6	10.1
69	800.2	5.6
72	805.8	5.6

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FINAL FLOW / DST #4



—□— OXY-LB #1-36

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INITIAL PRODUCTION CORRECTED TO PSEUDO STEADY FLOW STATE:

268.733

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OXY-LB #1-36
INITIAL

DST #4
SHUTIN
30 INITIAL FLOW TIME SLOPE 696.6 PSI/CYCLE
P* 1614.77 PSI

Log <>

TIME(MIN)	Pws (psi)	Horn T	PRESSURE	Horn T
3	866.0	1.041	866.0	11
6	1205.1	0.778	339.1	6
9	1264.5	0.637	59.4	4
12	1331.8	0.544	67.3	4
15	1369.9	0.477	38.1	3
18	1391.2	0.426	21.3	3
21	1406.9	0.385	15.7	2
24	1413.6	0.352	6.7	2
27	1418.1	0.325	4.5	2
30	1421.5	0.301	3.4	2
33	1423.7	0.281	2.2	2
36	1421.5	0.263	-2.2	2
39	1429.3	0.248	7.8	2
X 42	1451.7	0.234	22.4	2
45	1469.7	0.222	18.0	2
48	1478.6	0.211	8.9	2
51	1485.4	0.201	6.8	2
54	1489.9	0.192	4.5	2
57	1491.0	0.184	1.1	2
X 60	1492.1	0.176	1.1	2

OXY-LB #1-36
FINAL

DST #4
SHUTIN
97 TOTAL FLOW TIME SLOPE 717.0 PSI/CYCLE
P* 1632.9 PSI

Log 215700

TIME(MIN)	Pws (psi)	Horn T	PRESSURE	Horn T
6	1132.2	1.235	1132.2	17
12	1272.4	0.958	140.2	9
18	1331.8	0.805	59.4	6
24	1356.5	0.703	24.7	5
30	1369.9	0.627	13.4	4
36	1374.4	0.568	4.5	4
42	1378.9	0.520	4.5	3
48	1381.1	0.480	2.2	3
54	1383.4	0.447	2.3	3
60	1385.6	0.418	2.2	3
66	1387.8	0.393	2.2	2
72	1389.0	0.371	1.2	2
78	1391.2	0.351	2.2	2
84	1393.4	0.333	2.2	2
90	1395.6	0.318	2.2	2
96	1398.5	0.303	2.9	2
102	1406.9	0.290	8.4	2
108	1415.1	0.278	8.2	2
114	1424.8	0.267	9.7	2
X 120	1448.4	0.257	23.6	2
X 126	1455.1	0.248	6.7	2

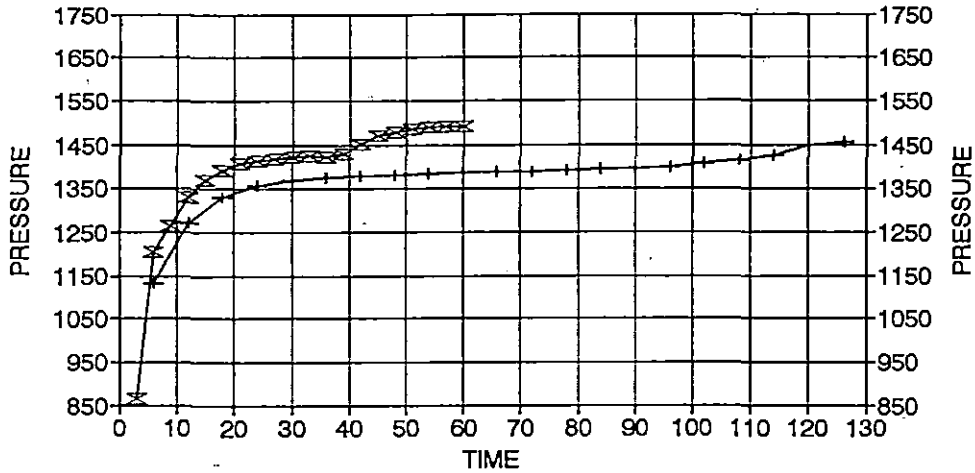
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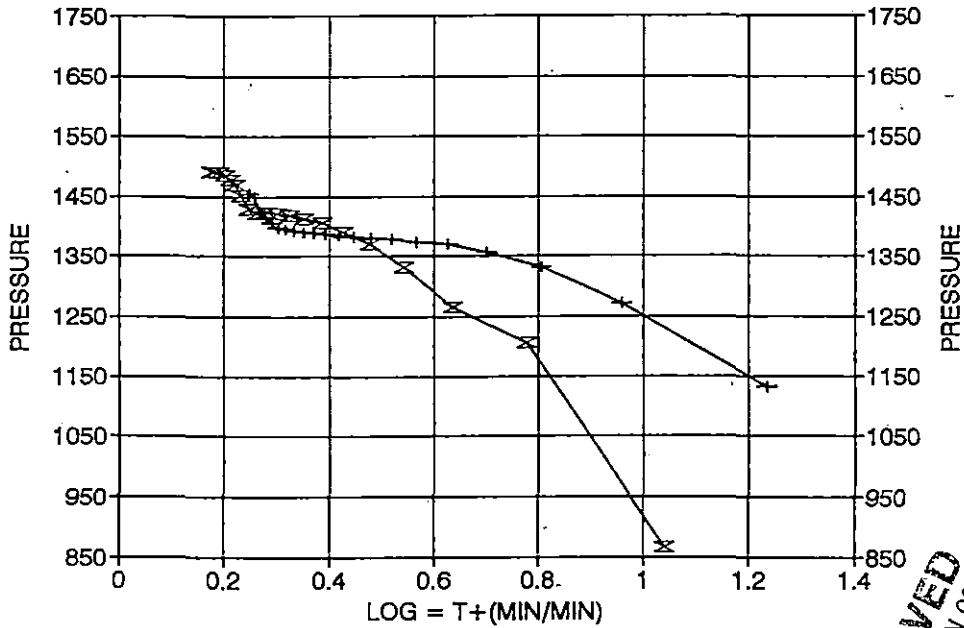
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DELTA T DELTA P



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FLUID SAMPLER DATA

770218.002

2003 8 100

Ticket No.: 6848 Date: 4/29/94
 Company: MURFIN DRILLING CO INC
 Lease: OXY-LB #1-36 Test No.: 4
 County: SEWARD Sec.: 36 Twp.: 32S Rng.: 33W

SAMPLER RECOVERY

Gas 2.07 CU F
 Oil 2900
 Mud
 Water 850
 Other
 Pressure 725
 TOTAL 4000

PIT MUD ANALYSIS

Chlorides 6000
 Resistivity 0.75 ohms@ 90 F
 Viscosity 47
 Mud Wt. 9
 Filtrate 9.8
 Other:

SAMPLER ANALYSIS

Resistivity 0.15 ohms@ 63 F
 Chlorides 65000 ppm.
 Gravity 45 corrected @60F

PIPE RECOVERY

TOP

Resistivity ohms@ F
 Chlorides ppm

MIDDLE

Resistivity ohms@ F
 Chlorides ppm

BOTTOM

Resistivity 0.15 ohms@ 63 F
 Chlorides 65000 ppm

GAS VOLUME REPORT

MURFIN DRILLING CO INC

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OXY-LB #1-36

DST # 4

MIN	PSIG	ORIFICE	MCF/D	MIN	PSIG	ORIFICE	MCF/D
5	5	0.5	78.1	5	0.5	0.5	16.5
10	6.5	0.5	90.1	10	1	0.5	33.9
15	6.5	0.5	90.1	15	5	0.5	78.1
20	7	0.5	94.5	20	6.5	0.5	90.1
25	7.5	0.5	94.5	25	7	0.5	94.5
30	8	0.5	101	30	7	0.5	94.5
				35	7.5	0.5	97.8
				40	7.5	0.5	97.8
				45	8.5	0.5	105
				50	10	0.5	116
				55	12	0.5	129
				60	12	0.5	129

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WICHITA, KS

Remarks: GAS TO SURFACE IN 9 MIN ON INITIAL-OIL MIST TO SURFACE IN 12 MIN
FLUID TO SURFACE 58 MIN INTO FINAL FLOW

NATURAL GAS ANALYSIS REPORT

Sampled by:
Trilobite Testing, L.L.C.
Hays, Kansas
Scott City, Kansas
Phone: 800-728-5369
Fax: 913-625-5620

Analyzed by:
Caraway Analytical, L.L.C.
728 North Roosevelt
Liberal, Kansas 67901
Phone: 316-324-5389
Fax: 316-626-7108

Lab Number:	940204A	Analyzed:	04/30/94
Sample From:	Oxy LB 1-36 DST 4	Pressure:	
Producer:	Murfin Drilling	Temperature:	
Date:	04/29/94	Location:	36-32S-33W
Time:		County:	Seward
Sampler:		State:	Kansas
Source:		Formation:	4702-4730

	Mole %	GPM
Helium	He:	0.000
Oxygen	O2:	1.739
Nitrogen	N2:	24.141
Carbon Dioxide	CO2:	0.000
Methane	C1:	52.222
Ethane	C2:	8.181
Propane	C3:	8.140
Iso Butane	iC4:	0.962
Normal Butane	nC4:	0.550
Iso Pentane	iC5:	0.520
Normal Pentane	nC5:	0.631
Hexanes Plus	C6+:	0.914

TOTAL: 100.000 6.367
Z Fact: 0.9967
SP.GR.: 0.8823
BTU (SAT): 1071.6 @ 14.73 psia
BTU (DRY): 1090.5 @ 14.73 psia
OCTANE RATING: 88.4

COMMENTS: Sample entered under vacuum
Insufficient pressure for Helium analysis
As Analyzed

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NATURAL GAS ANALYSIS REPORT

Sampled by:
Trilobite Testing, L.L.C.
Hays, Kansas
Scott City, Kansas
Phone: 800-728-5369
Fax: 913-625-5620

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Analyzed by:
Caraway Analytical, L.L.C.
728 North Roosevelt
Liberal, Kansas 67901
Phone: 316-324-5389
Fax: 316-626-7108

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Lab Number: 940204B
Sample From: Oxy LB 1-36 DST 4
Producer: Murfin Drilling
Date: 04/29/94
Time:
Sampler:
Source:

Analyzed: 04/30/94
Pressure:
Temperature:
Location: 36-32S-33W
County: Seward
State: Kansas
Formation: 4702-4730

	Mole %	GPM
Helium	He:	0.000
Oxygen	O2:	0.000
Nitrogen	N2:	18.821
Carbon Dioxide	CO2:	0.000
Methane	C1:	57.194
Ethane	C2:	8.960
Propane	C3:	8.916
Iso Butane	iC4:	1.054
Normal Butane	nC4:	2.793
Iso Pentane	iC5:	0.569
Normal Pentane	nC5:	0.692
Hexanes Plus	C6+:	1.001

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TOTAL: 100.000 6.974
Z Fact: 0.9963
SP.GR.: 0.8717
BTU (SAT): 1174.2 @ 14.73 psia
BTU (DRY): 1194.9 @ 14.73 psia
OCTANE RATING: 96.8

COMMENTS: Sample entered under vacuum
Insufficient pressure for Helium analysis
Air Calculated Out

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WICHITA, KS

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TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

ORIGINAL

Well Name OXY-LB #1-36 Test No. 5 Date 4/30/94
 Company MURFIN DRILLING CO INC Zone MARMATON
 Address 250 N WATER SWT #300 WICHITA KS 67202 Elevation 2704
 Co. Rep./Geo. PAUL GODOWIC Cont. MURFIN DRLG RIG #21 Est. Ft. of Pay 7
 Location: Sec. 36 Twp. 32S Rge. 33W Co. SEWARD State KS

Interval Tested 4840-4855 Drill Pipe Size 4.5" XH
 Anchor Length 15 Wt. Pipe I.D. - 2.7 Ft. Run CONFIDENTIAL
 Top Packer Depth 4835 Drill Collar - 2.25 Ft. Run 554
 Bottom Packer Depth 4840 Mud Wt. 8.9 lb/Gal.
 Total Depth 4855 Viscosity 47 Filtrate 8.4

Tool Open @ 1:11 PM Initial Blow GOOD BLOW FOR 15 SECONDS
 Final Blow OFF BOTTOM IN 5 MINUTES-NO GAS TO SURFACE

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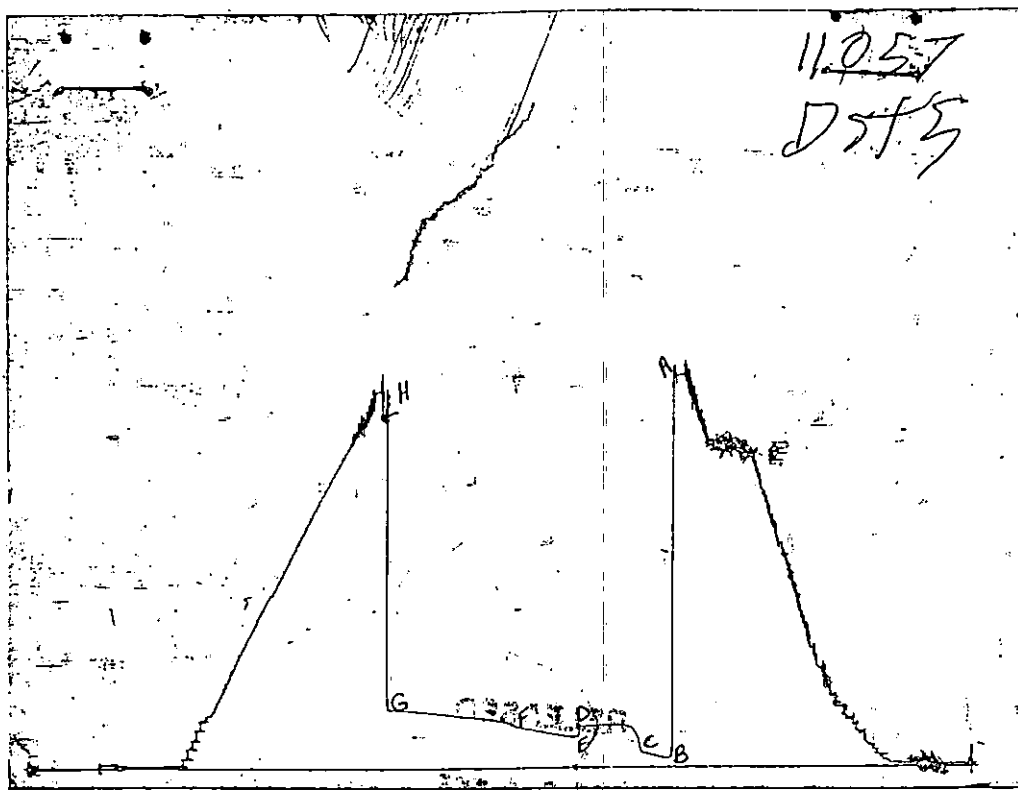
Recovery - Total Feet 630 Flush Tool? NO
 Rec. 3346 Feet of GAS IN PIPE
 Rec. 45 Feet of GAS & WTR CUT MUD- 5% GAS/25% WTR/70% MUD
 Rec. 585 Feet of SLTLY GAS CUT WATER-1% GAS/ 99% WTR
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____

BHT 123 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
 RW 0.1 @ 81 °F Chlorides 72000 ppm Recovery Chlorides 4500 ppm System

(A) Initial Hydrostatic Mud 2242.1 PSI AK1 Recorder No. 11057 Range 4500
 (B) First Initial Flow Pressure 56.1 PSI @ (depth) 4842 w / Clock No. 30401
 (C) First Final Flow Pressure 88.5 PSI AK1 Recorder No. 11058 Range 4500
 (D) Initial Shut-in Pressure 237.6 PSI @ (depth) _____ w / Clock No. 25108
 (E) Second Initial Flow Pressure 178.2 PSI AK1 Recorder No. _____ Range _____
 (F) Second Final Flow Pressure 235.4 PSI @ (depth) _____ w / Clock No. _____
 (G) Final Shut-in Pressure 339.6 PSI Initial Opening 20 Final Flow 40
 (H) Final Hydrostatic Mud 2185.5 PSI Initial Shut-in 40 Final Shut-in 80

Our Representative MARK HERSKOWITZ

CHART PAGE



This is an actual photograph of recorder chart #11057

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2298	2242.1
(B) FIRST INITIAL FLOW PRESSURE	56	56.1
(C) FIRST FINAL FLOW PRESSURE	89	88.5
(D) INITIAL CLOSED-IN PRESSURE	224	237.6
(E) SECOND INITIAL FLOW PRESSURE	168	178.2
(F) SECOND FINAL FLOW PRESSURE	224	235.4
(G) FINAL CLOSED-IN PRESSURE	336	339.6
(H) FINAL HYDROSTATIC MUD	2219	2185.5

FLUID SAMPLER DATA

ORIGINAL

Ticket No.: 6849 Date: 4/30/94

Company: MURFIN DRILLING CO INC

CONFIDENTIAL

Lease: OXY-LB #1-36 Test No.: 5

County: SEWARD Sec.: 36 Twp.: 32S Rng.: 33W

SAMPLER RECOVERY

Gas 0.92 CU F

Oil

Mud

Water 3800

Other

Pressure 120

TOTAL 4000

SAMPLER ANALYSIS

Resistivity 0.1 ohms@ 81 F

Chlorides 72000 ppm.

Gravity corrected @60F

PIT MUD ANALYSIS

Chlorides 4500

Resistivity ohms@ F

Viscosity 47

Mud Wt. 8.9

Filtrate 8.4

Other

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PIPE RECOVERY

TOP

Resistivity ohms@ F

Chlorides ppm

MIDDLE

Resistivity 0.17 ohms@ 70 F

Chlorides 42000 ppm

BOTTOM

Resistivity 0.1 ohms@ 80 F

Chlorides 71000 ppm

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WICHITA, KS

GAS VOLUME REPORT

MURFIN DRILLING CO INC

OXY-LB #1-36

DST# 5

MIN	INCHES OF WTR	ORIFICE	MCF/D	MIN	INCHES OF WTR	ORIFICE	MCF/D
2	12	0.25	5.86	5			
5	14	0.25	6.33	10	8	0.25	4.76
10	15	0.25	6.72	15	8	0.25	4.76
15	18	0.25	7.12	20	6	0.25	4.12
20	19	0.25	7.32	25	5	0.25	3.71
				30	4	0.25	3.37
				35	3	0.25	2.96
				40	2	0.5	2.37

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APR 8 8 100

FROM OILFIELD

Remarks: NO GAS TO SURFACE

TRILOBITE TESTING, L.L.C.

ORIGINAL

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name OXY-LB #1-36 Test No. 6 Date 5/4/94
 Company MURFIN DRILLING CO INC Zone MORROW & CHE
 Address 250 N WATER SWT #300 WICHITA KS 67202 Elevation 2704
 Co. Rep./Geo. PAUL GODOWIC Cont. MURFIN DRLG RIG #21 Est. Ft. of Pay _____
 Location: Sec. 36 Twp. 32S Rge. 33W Co. SEWARD State KS

Interval Tested 5337-5643 Drill Pipe Size 4.5" XH
 Anchor Length 306 Wt. Pipe I.D. - 2.7 Ft. Run _____
 Top Packer Depth 5332 Drill Collar - 2.25 Ft. Run 246
 Bottom Packer Depth 5337 Mud Wt. _____ 9 lb/Gal.
 Total Depth 5643 Viscosity 54 Filtrate 7.8

Tool Open @ 10:39 AM Initial Blow GOOD BLOW OFF BOTTOM IN 2 MINUTES
GAS TO SURFACE IN 28 MINUTES
 Final Blow OFF BOTTOM IN 8 MINUTES - OPEN 2" - DIED OFF IN 25
MINUTES - SHUT 2" - 1" BLOW TO BOTTOM IN 15 MINUTES

Recovery - Total Feet 180 Flush Tool? NO

Rec. 5130 Feet of GAS IN PIPE
 Rec. 180 Feet of GAS CUT MUD- 1% GAS/ 99% MUD
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____

BHT 124 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
 RW 0.15 @ 70 °F Chlorides 3800 ppm Recovery Chlorides 3500 ppm System

(A) Initial Hydrostatic Mud 2634.6 PSI AK1 Recorder No. 11057 Range 4500
 (B) First Initial Flow Pressure 139.0 PSI @ (depth) 5340 w / Clock No. 30401
 (C) First Final Flow Pressure 115.4 PSI AK1 Recorder No. 11058 Range 4500
 (D) Initial Shut-in Pressure 128.9 PSI @ (depth) 5638 w / Clock No. 25108
 (E) Second Initial Flow Pressure 128.9 PSI AK1 Recorder No. _____ Range _____
 (F) Second Final Flow Pressure 116.5 PSI @ (depth) _____ w / Clock No. _____
 (G) Final Shut-in Pressure 150.2 PSI Initial Opening 30 Final Flow 60
 (H) Final Hydrostatic Mud 2457.0 PSI Initial Shut-in 60 Final Shut-in 120

Our Representative MARK HERSKOWITZ

RELEASED

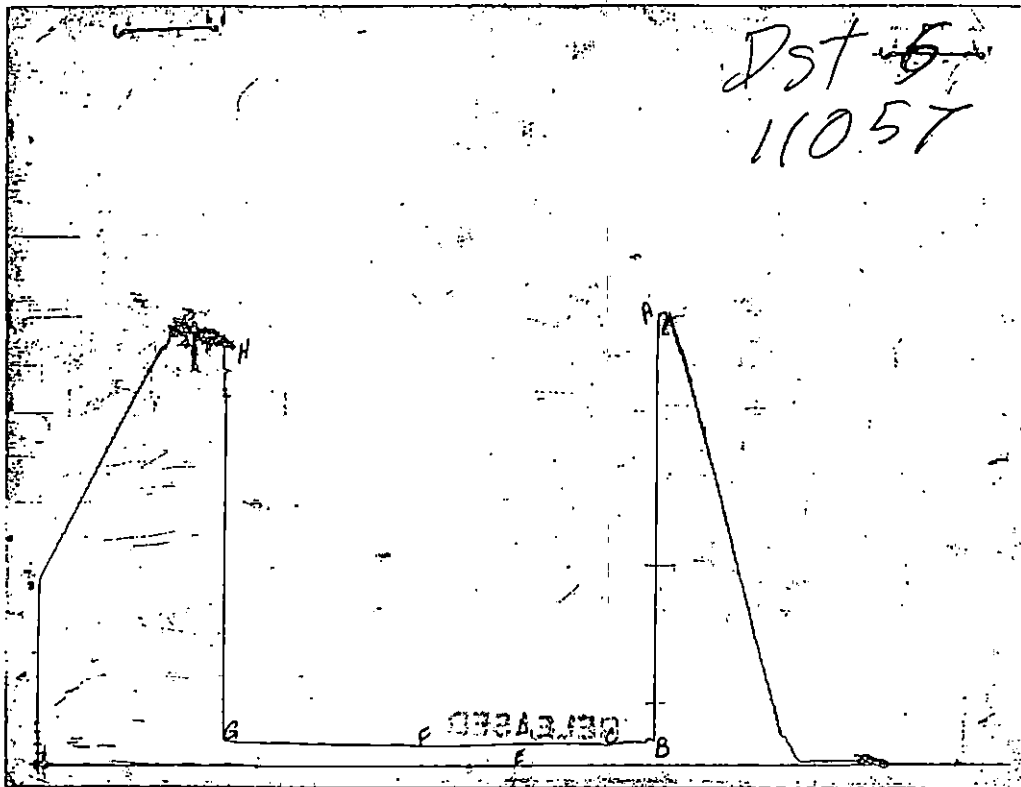
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CHART PAGE



This is an actual photograph of recorder chart #11057

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2649	2634.6
(B) FIRST INITIAL FLOW PRESSURE	145	139
(C) FIRST FINAL FLOW PRESSURE	112	115.4
(D) INITIAL CLOSED-IN PRESSURE	134	128.9
(E) SECOND INITIAL FLOW PRESSURE	123	128.9
(F) SECOND FINAL FLOW PRESSURE	112	116.5
(G) FINAL CLOSED-IN PRESSURE	145	150.2
(H) FINAL HYDROSTATIC MUD	2614	2457

GAS VOLUME REPORT

ORIGINAL

MURFIN DRILLING CO INC

OXY-LB #1-36

DST # 6

MIN	PSIG	ORIFICE	MCF/D	MIN	INCHES	ORIFICE	MCF/D
5	2	0.25	12.7	5			
10	4	0.25	18.5	10			
15	4.5	0.25	19.5	15	6	0.5	78.1
20	4.5	0.25	19.5	20	4	0.5	90.1
25	4.5	0.25	19.5	25	2	0.5	94.5
30	4.5	0.25	19.5	30	2	0.5	94.5
				35	1	0.5	97.8
				40		0.5	97.8
				45			
				50			
				55			
				60			

OF WTR
 OFF BOTTOM IN 8 MIN
 SHUT 2"
 1" BLOW TO BOTTOM IN 15 MIN

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 WICHITA, KS

Remarks: GAS TO SURFACE IN 28 MINUTES

FLUID SAMPLER DATA

Ticket No.:	6850	Date:	5/4/94		
Company:	MURFIN DRILLING CO INC				
Lease:	OXY-LB #1-36	Test No.:	6		
County:	SEWARD	Sec.:	36	Twp.:	32S Rng.: 33W

SAMPLER RECOVERY

Gas .75 CU FT

Oil

Mud 3400

Water

Other

Pressure 25

TOTAL 4000

SAMPLER ANALYSIS

Resistivity 1.5 ohms@ 70 F

Chlorides 3800 ppm.

Gravity corrected @60F

PIT MUD ANALYSIS

Chlorides 3500

Resistivity 1.2 ohms@ 98 F

Viscosity 54

Mud Wt. 9

Filtrate 7.8

Other

PIPE RECOVERY

TOP

Resistivity 1.5 ohms@ 70 F

Chlorides 3800 ppm

MIDDLE

Resistivity 1.49 ohms@ 71 F

Chlorides 3800 ppm

BOTTOM

Resistivity 1.5 ohms@ 68 F

Chlorides 3800 ppm

ORIGINAL

NATURAL GAS ANALYSIS REPORT

Sampled by:
 Trilobite Testing, L.L.C.
 Hays, Kansas
 Scott City, Kansas
 Phone: 800-728-5369
 Fax: 913-625-5620

Analyzed by:
 Caraway Analytical, L.L.C.
 728 North Roosevelt
 Liberal, Kansas 67901
 Phone: 316-324-5389
 Fax: 316-626-7108

Lab Number:	940212	Analyzed:	05/04/94
Sample From:	Oxy LB 1-36 DST 6	Pressure:	
Producer:	Murfin Drilling	Temperature:	
Date:		Location:	36-32S-33W
Time:		County:	Seward
Sampler:		State:	Kansas
Source:		Formation:	Morrow & Chester

	Mole %	GPM
Helium He:		0.000
Oxygen O2:	0.000	0.000
Nitrogen N2:	8.159	0.000
Carbon Dioxide CO2:	0.000	0.000
Methane C1:	81.845	0.000
Ethane C2:	5.664	1.515
Propane C3:	2.468	0.680
Iso Butane iC4:	0.401	0.131
Normal Butane nC4:	0.713	0.225
Iso Pentane iC5:	0.114	0.042
Normal Pentane nC5:	0.232	0.084
Hexanes Plus C6+:	0.424	0.185
TOTAL:	100.020	2.862
Z Fact:	0.9975	
SP.GR.:	0.6749	
BTU (SAT):	1047.4 @ 14.73 psia	
BTU (DRY):	1065.9 @ 14.73 psia	
OCTANE RATING:	116.0	

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COMMENTS: Sample entered under vacuum
 Insufficient pressure for Helium analysis

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TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

CONFIDENTIAL
ORIGINAL

Well Name OXY-LB #1-36 Test No. 7 Date 5/5/94
 Company MURFIN DRILLING CO INC Zone ST LOUIS
 Address 250 N WATER SWT #300 WICHITA KS 67202 Elevation 2704
 Co. Rep./Geo. PAUL GODOWIC Cont. MURFIN DRLG RIG #21 Est. Ft. of Pay _____
 Location: Sec. 36 Twp. 32S Rge. 33W Co. SEWARD State KS

Interval Tested 5690-5880 Drill Pipe Size 4.5" XH
 Anchor Length 190 Wt. Pipe I.D. - 2.7 Ft. Run _____
 Top Packer Depth 5685 Drill Collar - 2.25 Ft. Run 447
 Bottom Packer Depth 5690 Mud Wt. 9.1 lb/Gal.
 Total Depth 5880 Viscosity 55 Filtrate 7.6

Tool Open @ 3:47 AM Initial Blow SURFACE TO BOTTOM IN 13 MINUTES

Final Blow GOOD BLOW OFF BOTTOM IN 1 MINUTE
NO GAS TO SURFACE

Recovery - Total Feet 210 Flush Top? NO

Rec. 3138 Feet of GAS IN PIPE
 Rec. 60 Feet of GASSY MUD- 3% GAS/ 97% MUD
 Rec. 60 Feet of GSY OIL CUT MUD-10%GAS/2%OIL/88%MUD
 Rec. 90 Feet of GSY OIL CUT MUD-8%GAS/4%OIL/88%MUD
 Rec. _____ Feet of _____

BHT 128 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
 RW 1.2 @ 73 °F Chlorides 4800 ppm Recovery Chlorides 4500 ppm System

(A) Initial Hydrostatic Mud 2790.3 PSI AK1 Recorder No. 11057 Range 4500

(B) First Initial Flow Pressure 64.4 PSI @ (depth) 5692 w / Clock No. 30401

(C) First Final Flow Pressure 68.8 PSI AK1 Recorder No. 11058 Range 4500

(D) Initial Shut-in Pressure 1681.8 PSI @ (depth) 5875 w / Clock No. 25108

(E) Second Initial Flow Pressure 91.1 PSI AK1 Recorder No. _____ Range _____

(F) Second Final Flow Pressure 106.6 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 1117.7 PSI Initial Opening 30 Final Flow 60

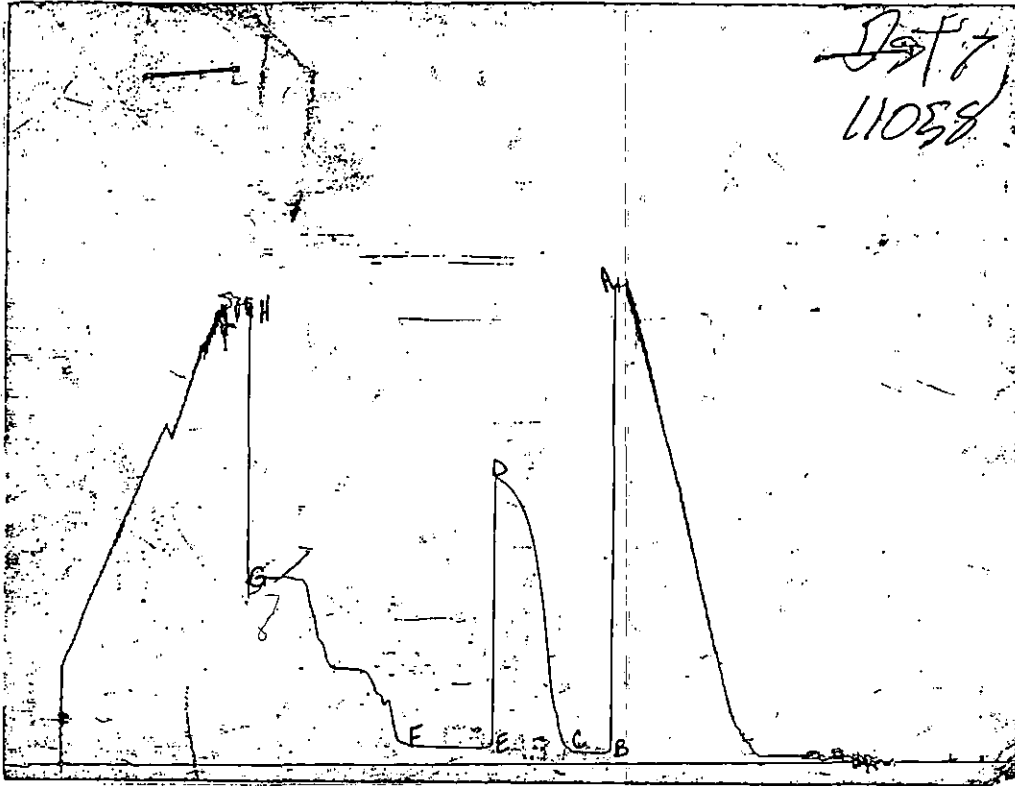
(H) Final Hydrostatic Mud 2748.8 PSI Initial Shut-in 60 Final Shut-in 120

Our Representative MARK HERSKOWITZ

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WICHITA, KS

CHART PAGE



271 5 100

This is an actual photograph of recorder chart #11058

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2782	2790.3
(B) FIRST INITIAL FLOW PRESSURE	55	64.4
(C) FIRST FINAL FLOW PRESSURE	66	68.8
(D) INITIAL CLOSED-IN PRESSURE	1678	1681.8
(E) SECOND INITIAL FLOW PRESSURE	88	91.1
(F) SECOND FINAL FLOW PRESSURE	111	106.6
(G) FINAL CLOSED-IN PRESSURE	1008	1117.7
(H) FINAL HYDROSTATIC MUD	2748	2748.8

FLUID SAMPLER DATA

ORIGINAL

CONFIDENTIAL

Ticket No.: 7027 Date: 5/5/94
 Company: MURFIN DRILLING CO INC
 Lease: OXY-LB #1-36 Test No.: 7
 County: SEWARD Sec.: 36 Twp.: 32S Rng.: 33W

SAMPLER RECOVERY

Gas 0.90 cu f
 Oil 1800
 Mud 1800
 Water
 Other
 Pressure 300
 TOTAL 4000

SAMPLER ANALYSIS

Resistivity 1.2 ohms@ 73 F
 Chlorides 4800 ppm.
 Gravity corrected @60F

PIT MUD ANALYSIS

Chlorides 4500
 Resistivity 1 ohms@ 93 F
 Viscosity 55
 Mud Wt. 9.1
 Filtrate 7.6
 Other

PIPE RECOVERY

TOP

Resistivity 1.2 ohms@ 73 F
 Chlorides MUD ppm

MIDDLE

Resistivity ohms@ F
 Chlorides ppm

BOTTOM

Resistivity ohms@ F
 Chlorides ppm

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 WICHITA, KS

GAS VOLUME REPORT

MURFIN DRILLING CO INC

OXY-LB #1-36

DST # 7

MIN	PSIG	ORIFICE	MCF/D	MIN	INCHES OF WTR	ORIFICE	MCF/D
5				5	26	0.25	8.58
10				10	22	0.25	7.88
15				15	17	0.25	6.93
20				20	14	0.25	6.33
25				25	10	0.25	5.32
30				30	7	0.25	4.45
				35	6	0.25	4.12
				40	5	0.25	3.71
				45	5	0.25	3.71
				50	5	0.25	3.71
				55	5	0.25	3.71
				60	4	0.25	3.37

FROM COMPLETION

Remarks: NO GAS TO SURFACE

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

CONFIDENTIAL

ORIGINAL

Well Name OXY-LB #1-36 Test No. 8 Date 5/6/94
 Company MURFIN DRILLING CO INC Zone SPERGEN
 Address 250 N WATER SWT #300 WICHITA KS 67202 Elevation 2704
 Co. Rep./Geo. PAUL GODOWIC Cont. MURFIN DRLG RIG #21 Est. Ft. of Pay _____
 Location: Sec. 36 Twp. 32S Rge. 33W Co. SEWARD State KS

Interval Tested 5888-5900 Drill Pipe Size 4.5" XH
 Anchor Length 12 Wt. Pipe I.D. - 2.7 Ft. Run _____
 Top Packer Depth 5883 Drill Collar - 2.25 Ft. Run 554
 Bottom Packer Depth 5888 Mud Wt. _____ 9 lb/Gal.
 Total Depth 5900 Viscosity 58 Filtrate 7.2

Tool Open @ 4:08 AM Initial Blow SURFACE TO 1.25" IN 30 MINUTES

Final Blow NO BLOW FOR 12 MINUTES-WEAK SURFACE TO 1/4" IN 18 MIN

Recovery - Total Feet 10 Flush Tool? NO

Rec. 10 Feet of SLTLY WATER CUT MUD-- 5% WTR/ 95% MUD
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____

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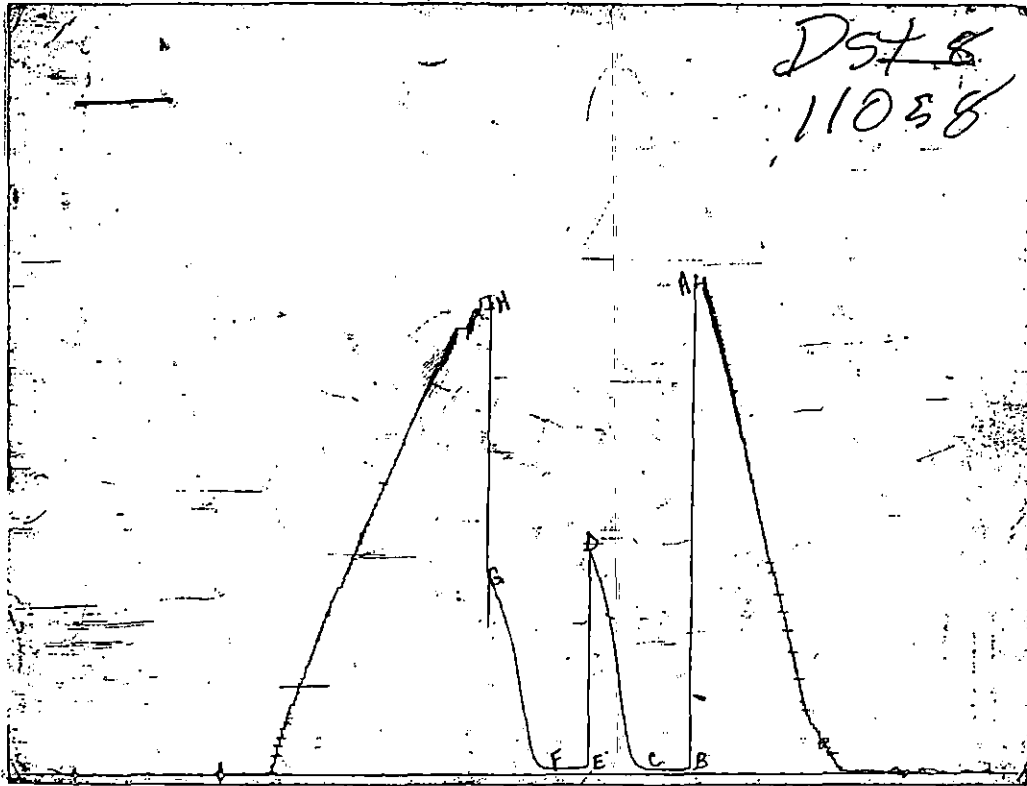
BHT 131 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
 RW 0.4 @ 65 °F Chlorides 6750 ppm Recovery Chlorides 6750 ppm System

(A) Initial Hydrostatic Mud 2897.9 PSI AK1 Recorder No. 11057 Range 4500
 (B) First Initial Flow Pressure 25.5 PSI @ (depth) 5890 w / Clock No. 7452
 (C) First Final Flow Pressure 25.5 PSI AK1 Recorder No. 11058 Range 4500
 (D) Initial Shut-in Pressure 1298.9 PSI @ (depth) 5895 w / Clock No. 25108
 (E) Second Initial Flow Pressure 29.9 PSI AK1 Recorder No. _____ Range _____
 (F) Second Final Flow Pressure 37.7 PSI @ (depth) _____ w / Clock No. _____
 (G) Final Shut-in Pressure 1131.1 PSI Initial Opening 30 Final Flow 30
 (H) Final Hydrostatic Mud 2782.5 PSI Initial Shut-in 45 Final Shut-in 45

Our Representative MARK HERSKOWITZ

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 CONSERVATION DIVISION
 WICHITA, KS

CHART PAGE



This is an actual photograph of recorder chart #11058

FIELD READING OFFICE READING
 2864 2897.9

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2864	2897.9
(B) FIRST INITIAL FLOW PRESSURE	22	25.5
(C) FIRST FINAL FLOW PRESSURE	33	25.5
(D) INITIAL CLOSED-IN PRESSURE	1309	1298.9
(E) SECOND INITIAL FLOW PRESSURE	44	29.9
(F) SECOND FINAL FLOW PRESSURE	56	37.7
(G) FINAL CLOSED-IN PRESSURE	1152	1131.1
(H) FINAL HYDROSTATIC MUD	2830	2782.5

FLUID SAMPLER DATA

ORIGINAL
CONFIDENTIAL

Ticket No.: 7028

Date: 5/6/94

Company: MURFIN DRILLING CO INC

Lease: OXY-LB #1-36

Test No.: 8

County: SEWARD

Sec.: 36

Twp.: 32S

Rng.: 33W

SAMPLER RECOVERY

Gas 0.10 cu f

Oil

Mud 1560

Water 2340

Other

Pressure 100

TOTAL 4000

SAMPLER ANALYSIS

Resistivity 0.4 ohms@ 65 F

Chlorides 18000 ppm.

Gravity corrected @60F

PIT MUD ANALYSIS

Chlorides 6750

Resistivity 0.68 ohms@ 95 F

Viscosity 58

Mud Wt. 9

Filtrate 7.2

Other

PIPE RECOVERY

TOP

Resistivity 0.4 ohms@ 65 F

Chlorides 18000 ppm

MIDDLE

Resistivity ohms@ F

Chlorides ppm

BOTTOM

Resistivity ohms@ F

Chlorides ppm

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CONSERVATION DIVISION
WICHITA, KS

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

ORIGINAL
CONFIDENTIAL

Well Name OXY-LB #1-36 Test No. 9 Date 5/7/94
 Company MURFIN DRILLING CO INC Zone SPERGEN
 Address 250 N WATER SWT #300 WICHITA KS 67202 Elevation 2704
 Co. Rep./Geo. PAUL GODOWIC Cont. MURFIN DRLG RIG #21 Est. Ft. of Pay. _____
 Location: Sec. 36 Twp. 32S Rge. 33W Co. SEWARD State KS

Interval Tested 5904-5952 Drill Pipe Size 4.5" XH
 Anchor Length 48 Wt. Pipe I.D. - 2.7 Ft. Run _____
 Top Packer Depth 5899 Drill Collar - 2.25 Ft. Run 527
 Bottom Packer Depth 5904 Mud Wt. _____ 9 lb/Gal.
 Total Depth 5952 Viscosity 65 Filtrate 9.2

Tool Open @ 3:41 AM Initial Blow GOOD BLOW OFF BOTTOM IN 1 MINUTE 30 SECONDS

Final Blow OFF BOTTOM IN 2 MINUTES-NO GAS TO SURFACE
RELEASED

Recovery - Total Feet 2731 **OCT 26 1995** Flush Tool? NO

Rec. 217 Feet of GAS IN PIPE
 Rec. 210 Feet of GSY WATERY MUD- 1%GAS/25%WTR/74%MUD
 Rec. 2521 Feet of GAS CUT WATER- 1% GAS/99% WTR
 Rec. _____ Feet of WATER IN FLUID
 Rec. _____ Feet of _____

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 WICHITA, KS

BHT 158 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
 RW 0.08 @ 77 °F Chlorides 91000 ppm Recovery Chlorides 6250 ppm System

(A) Initial Hydrostatic Mud 2923.7 PSI AK1 Recorder No. 11057 Range 4500

(B) First Initial Flow Pressure 127.7 PSI @ (depth) 5906 w / Clock No. 7452

(C) First Final Flow Pressure 652.6 PSI AK1 Recorder No. 11058 Range 4500

(D) Initial Shut-in Pressure 1817.0 PSI @ (depth) 5947 w / Clock No. 25108

(E) Second Initial Flow Pressure 720.5 PSI AK1 Recorder No. _____ Range _____

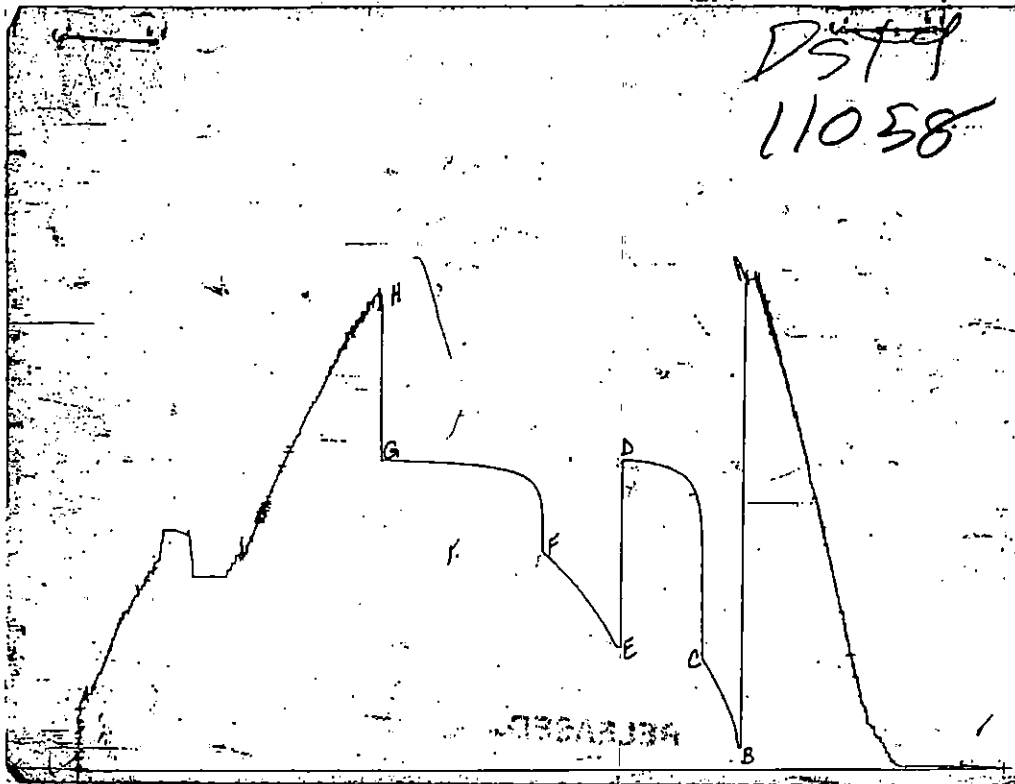
(F) Second Final Flow Pressure 1275.5 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 1821.5 PSI Initial Opening 30 Final Flow 60

(H) Final Hydrostatic Mud 2797.1 PSI Initial Shut-in 60 Final Shut-in 120

Our Representative MARK HERSKOWITZ

CHART PAGE



200 0 5 100

This is an actual photograph of recorder chart #11058

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2894	2923.7
(B) FIRST INITIAL FLOW PRESSURE	122	127.7
(C) FIRST FINAL FLOW PRESSURE	658	652.6
(D) INITIAL CLOSED-IN PRESSURE	1793	1817
(E) SECOND INITIAL FLOW PRESSURE	726	720.5
(F) SECOND FINAL FLOW PRESSURE	1286	1275.5
(G) FINAL CLOSED-IN PRESSURE	1815	1821.5
(H) FINAL HYDROSTATIC MUD	2860	2797.1

FLUID SAMPLER DATA

ORIGINAL

CONFIDENTIAL

Ticket No.: 7029

Date: 5/7/94

Company: MURFIN DRILLING CO INC

Lease: OXY-LB #1-36

Test No.: 9

County: SEWARD Sec.: 36 Twp.: 32S Rng.: 33W

SAMPLER RECOVERY

Gas .01cu ft

Oil

Mud

Water 4000

Other

Pressure 25

TOTAL 4000

SAMPLER ANALYSIS

Resistivity 0.08 ohms@ 77 F

Chlorides 91000 ppm.

Gravity corrected @60F

PIT MUD ANALYSIS

Chlorides 6250

Resistivity 0.7 ohms@ 93 F

Viscosity 65

Mud Wt. 9

Filtrate 9.2

Other

PIPE RECOVERY

TOP

Resistivity 0.1 ohms@ 70 F

Chlorides 70000 ppm

MIDDLE

Resistivity 0.09 ohms@ 73 F

Chlorides 83000 ppm

BOTTOM

Resistivity 0.09 ohms@ 71 F

Chlorides 83000 ppm

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OCT 26 1995
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AUG 10 1994

CONSERVATION DIVISION
WICHITA, KS

GAS VOLUME REPORT

MURFIN DRILLING CO INC

OXY-LB #1-36

DST # 9

MIN	INCHES OF WTR	ORIFICE	MCF/D	MIN	INCHES OF WTR	ORIFICE	MCF/D
5	22	0.125	2.48	5	16	0.125	2.11
10	28	0.125	2.78	10	18	0.125	2.24
15	32	0.125	2.99	15	20	0.125	2.36
20	36	0.125	3.17	20	22	0.125	2.48
25	38	0.125	3.25	25	24	0.125	2.59
30	40	0.125	3.34	30	24	0.125	2.59
				35	24	0.125	2.59
				40	24	0.125	2.59
				45	22	0.125	2.48
				50	22	0.125	2.48
				55	22	0.125	2.48
				60	20	0.125	2.36

FROM CONFIDENTIAL
 2008 3 8 10P

Remarks: NO GAS TO SURFACE INITIAL OR FINAL OPENING

CEMENT BOX 31 67665

ORIGINAL

Russell, KS
661, Great Bend, KS

Phone 913-625-5516, Hays, KS
Phone 913-672-3471, Oakley, KS

Phone 316-886-5926, Medicine Lodge, KS
Phone 913-798-3843, Ness City, KS

ALLIED CEMENTING CO., INC.

7586

Home Office P. O. Box 31

Russell, Kansas 67665

4-20-9

Date	4-28-94	Sec.	36	Trwp.	32	Range	33	Called Out	8:00 PM	On Location	11:45 PM	Job Start	3:30 AM	Finish	4:45 AM
Lease	Oxy-LB	Well No.	1-36	Location	Hwy 83 + 160 Jct, 35-EIS			County	Seward	State	Kan				
Contractor	MurFin Doly Co #21														
Type Job	Long Surface														
Hole Size	12 1/4	T.D.	15.35'												
Csg.	8 5/8	Depth	15.35												
Tbg. Size		Depth													
Drill Pipe		Depth													
Tool		Depth													
Cement Left in Csg.	44.73	Shoe Joint	44.73												
Press Max.		Minimum													
Meas Line		Displace	RELEASED												
Perf.	KCC														

Owner Same
To Allied Cementing Co., Inc.
You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.

Charge To MurFin Doly Co, Inc.
Street 250 N. Water, St 300
City Wichita State 67202
The above was done to satisfaction and supervision of owner agent or contractor.

Purchase Order No.
X *Bill Uly*
CEMENT CONFIDENTIAL

Amount Ordered	150 SKs com, 3% CC-2% Gel, 1/4 lbs. #		
Consisting of	550 SKs Lite, 3% CC-1/4 lbs. Flo		
Common	150 SKs @ 6.85	1,027.50	
Pumptrk	Lite 550 SKs @ 5.85	3,207.50	
Gel.	3 SKs @ 9.00	27.00	
Chloride	23 SKs @ 25.00	575.00	
Quilac	Flo-Seal 175# @ 1.10	192.50	

AUG 10 EQUIPMENT OCT 26 1995

No.	CONFIDENTIAL	FROM CONFIDENTIAL
Pumptrk	300	Helper Terry
No.		Cementer
Pumptrk		Helper
		Driver Wayne
Bulktrk	303	
Bulktrk	309	Driver Steve

Handling	1.00 per sk	700.00
Mileage	4¢ per sk/mile	840.00
	30 miles	
	AUG 9 Sub Total	6,552.50
	CONFIDENTIAL	Total

DEPTH of Job		
Reference:	Pumptruck	980.00
	8 5/8 Rubber Plus	83.00
	2.25 per mile	67.50
	Sub Total	
	Tax	

Floating Equipment	8 5/8
	1 - P.P. Guide Shoe - 224.00
	1 - AFU insert - 258.00
	1 - Basket - 120.00
	3 - Centralizers - 183.00
	Total = 845.00

Remarks: Fleet Held AUG 10 1994
Cement Dec Circ WICHITA, KS
KANSAS CORPORATION COMMISSION
CONSERVATION DIVISION



INVOICE

MAY 23 RECD

INVOICE NO.	DATE
648191	05/09/1994

WELL LEASE NO./PROJECT OXY LB 1-34	WELL/PROJECT LOCATION SEWARD	STATE KS	OWNER SAME
SERVICE LOCATION LIBERAL	CONTRACTOR MURFIN DRLG	JOB PURPOSE CEMENT PRODUCTION CASING	TICKET DATE 05/09/1994
ACCT. NO. 614500	CUSTOMER/AGENT PETE	VENDOR NO.	CUSTOMER P.O. NUMBER
COMPANY TRUCK		FILE NO. 6916	

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FROM CONFIDENTIAL

DIRECT CORRESPONDENCE TO:

OKLAHOMA TOWER
210 WEST PARK AVENUE
SUITE 2000
OKLAHOMA CITY, OK 73102-5601

MURFIN DRLG CO
BOX 661
COLBY, KS 67701

REFERENCE NO.	DESCRIPTION	QUANTITY	UM	UNIT PRICE	AMOUNT
PRICING AREA - MID CONTINENT					
000-117	MILEAGE CEMENTING ROUND TRIP	20	MI	2.75	110.00
		2	UNT		
001-016	CEMENTING CASING	5981	FT	2,000.00	2,000.00
		1	UNT		
007-161	MULT STAGE CEMENTING-ADD STAGE	1	STG	1,400.00	1,400.00
		1	UNT		
018-315	MUD FLUSH	1000	GAL	.65	650.00
60	ROTO WALL CLEANER 4" SPIKE	22	EA	30.00	660.00
807.0008					
504-043	CEMENT - PREMIUM	355	SK	9.82	3,486.10
507-775	HALAD-322	264	LB	7.00	1,842.00
507-970	D-AIR 1, POWDER	67	LB	3.25	217.75
509-968	SALT	1533	LB	.15	230.70
500-207	BULK SERVICE CHARGE	376	CFT	1.35	507.60
500-306	MILEAGE CMTG MAT DEL OR RETURN	528.62	TMI	.95	502.19

INVOICE SUBTOTAL

11,626.34

DISCOUNT-(BID)

INVOICE BID AMOUNT

03601 000 L 6022A 9039.97

*-KANSAS STATE SALES TAX

*-SEWARD COUNTY SALES TAX

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2,906.56-

8,719.78

265.91

54.28

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DEC 13 1994

CONSERVATION DIVISION
WICHITA, KS

INVOICE TOTAL - PLEASE PAY THIS AMOUNT

\$9,039.97

TERMS: If Customer does not have an approved open account with Halliburton, all sums due are payable in cash at the time of performance of services or delivery of equipment, products or materials. If customer has an approved open account, invoices are payable on the twentieth day after date of invoice. Customer agrees to pay interest on any unpaid balance from the date payable until paid at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event Halliburton employs an attorney for collection of any account, Customer



HALLIBURTON ENERGY SERVICES

FORM 1906 R-13

CHARGE TO: Murfin Drlg
 ADDRESS:
 CITY, STATE, ZIP CODE:

TICKET

No. 648191 - 1

PAGE 1 OF 2

1. Liberal 22540	WELL/PROJECT NO. 1-36	LEASE OXY L-B	COUNTY/PARISH Seward	STATE KS	CITY/OFFSHORE LOCATION Liberal, KS	DATE 5-9-94	OWNER SAME
2. Hugoton 22535	TICKET TYPE <input checked="" type="checkbox"/> SERVICE	NITROGEN JOB? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	CONTRACTOR MURFIN DRUG	RIG NAME/NO.	SHIPPED VIA WELLSITE	ORDER NO.	
3.	WELL TYPE 01	WELL CATEGORY 01	JOB PURPOSE 035	WELL PERMIT NO.	WELL LOCATION N Liberal, KS		
4. MAY 23 RECD	REFERRAL LOCATION	INVOICE INSTRUCTIONS					

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
		LOC	ACCT.	DF							
20-117		1			MILEAGE	20	100	1		2.75	110.00
001-016		1			Pump Service	5981	FT			2000.00	2000.00
007-161		1			Pump Service	1	SK			1400.00	1400.00
018-315		1			Mud Flush	1000	GAL			.65	650.00
60	807.0008	1			Cleaner- Roto wall	22	SEC			30.00	660.00

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TOPEKA, KS

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY provisions. CUSTOMER OR CUSTOMER'S AGENT SIGNATURE X <i>[Signature]</i> DATE SIGNED _____ TIME SIGNED _____ <input type="checkbox"/> A.M. <input type="checkbox"/> P.M. <input type="checkbox"/> do <input type="checkbox"/> do not require IPC (Instrument Protection). <input type="checkbox"/> Not offered	SUB SURFACE SAFETY VALVE WAS: <input type="checkbox"/> PULLED & RETURN <input type="checkbox"/> PULLED <input type="checkbox"/> RUN			SURVEY AGREE UNDECIDED DISAGREE		PAGE TOTAL 4820 FROM CONTINUATION PAGE(S) 6806 SUB-TOTAL APPLICABLE TAXES WILL BE ADDED ON INVOICE 11626
	TYPE LOCK	DEPTH		OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?		
	BEAN SIZE	SPACERS		WE UNDERSTOOD AND MET YOUR NEEDS?		
	TYPE OF EQUALIZING SUB.	CASING PRESSURE		OUR SERVICE WAS PERFORMED WITHOUT DELAY?		
TUBING SIZE	TUBING PRESSURE	WELL DEPTH	WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?		<input type="checkbox"/> YES <input type="checkbox"/> NO	
TREE CONNECTION		TYPE VALVE	ARE YOU SATISFIED WITH OUR SERVICE?			
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND						

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

CUSTOMER OR CUSTOMER'S AGENT (PLEASE PRINT)	CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE)	HALLIBURTON OPERATOR/ENGINEER	EMP #	HALLIBURTON APPROVAL
	X <i>[Signature]</i>	G. Palmberg	41489	<i>[Signature]</i>



HALLIBURTON

HALLIBURTON ENERGY SERVICES

MAY 23 REC'D

TICKET CONTINUATION

ORIGINAL

75

TICKET No. 678191

FORM 1911 R-10

CUSTOMER: Murfin; WELL: Oxy L-B; DATE: 5-9-94; PAGE 2 OF 2

Table with columns: PRICE REFERENCE, SECONDARY REFERENCE/PART NUMBER, ACCOUNTING (LOC, ACCT, DF), DESCRIPTION, QTY., U/M, UNIT PRICE, AMOUNT. Includes rows for Premium Cement, Halad-322 .8%/355sk, D-Air 2/10%/355sk, Salt 10%/355sk, SERVICE CHARGE, and MILEAGE CHARGE.

ORIGINAL

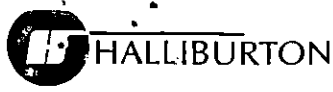
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No. B 255041

CONTINUATION TOTAL 6806.34



JOB
SUMM. 'Y

HALLIBURTON
DIVISION
HALLIBURTON
LOCATION

111. d Continent
Liberal MAY 23 RECD BILLED ON TICKET NO. 648191

WELL DATA
FIELD _____ SEC. 36 TWP. 32s RNG. 33w COUNTY Seward STATE Ks

FORMATION NAME _____ TYPE _____
FORMATION THICKNESS _____ FROM _____ TO _____
INITIAL PROD: OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD
PRESENT PROD: OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD
COMPLETION DATE _____ MUD TYPE _____ MUD WT. _____
PACKER TYPE _____ SET AT _____
BOTTOM HOLE TEMP. _____ PRESSURE _____
MISC. DATA DV TOOL @ 4900 TOTAL DEPTH 5984

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	N	15.5	5 1/2	0	5981	
LINER						
TUBING						
OPEN HOLE				5981	5982	SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

JOB DATA

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT <u>SWGS @ 5953'</u>		
GUIDE SHOE		
CENTRALIZERS		
BOTTOM PLUG		
TOP PLUG		
HEAD <u>ROTATING HEAD</u>	<u>1</u>	<u>HES</u>
PACKER		
OTHER <u>Scratchers</u>	<u>100'</u>	<u>HES</u>

CALLLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>5-9</u>	DATE <u>5-9</u>	DATE <u>5-10</u>	DATE <u>5-10</u>
TIME <u>1900</u>	TIME <u>2130</u>	TIME	TIME

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>G. Palmberg</u>	<u>41489</u>	
	<u>40029</u>	<u>Hays</u>
<u>R. Crist</u>	<u>D 7653</u>	<u>75496</u>
	<u>52947</u>	<u>Liberal</u>
<u>J. Adair</u>	<u>G 3813</u>	<u>7649</u>
	<u>4449</u>	<u>Hugoton</u>

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MATERIALS

TREAT. FLUID _____ DENSITY _____ LB/GAL. °API
DISPL. FLUID _____ DENSITY _____ LB/GAL. °API
PROP. TYPE _____ SIZE _____ LB.
PROP. TYPE _____ SIZE _____ LB.
ACID TYPE _____ GAL. _____ %
ACID TYPE _____ GAL. _____ %
ACID TYPE _____ GAL. _____ %
SURFACTANT TYPE _____ GAL. _____ IN.
NE AGENT TYPE _____ GAL. _____ IN.
FLUID LOSS ADD. TYPE _____ GAL.-LB. _____ IN.
GELLING AGENT TYPE _____ GAL.-LB. _____ IN.
FRIC. RED. AGENT TYPE _____ GAL.-LB. _____ IN.
BREAKER TYPE _____ GAL.-LB. _____ IN.
BLOCKING AGENT TYPE _____ GAL.-LB. _____ IN.
PERFPAC BALLS TYPE _____ QTY. _____
OTHER _____
OTHER _____

DEPARTMENT CEMENT
DESCRIPTION OF JOB CEMENT TWO-Stage
Production Casing
JOB DONE THRU: TUBING CASING ANNULUS TBG./ANN.
CUSTOMER REPRESENTATIVE X [Signature]
HALLIBURTON OPERATOR G. Palmberg COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
<u>1</u>	<u>175</u>	<u>Premium</u>	<u>P.</u>	<u>B</u>	<u>10% SALT, 8% Halad-322, 3/10% D.AIR</u>	<u>1.2</u>	<u>15.8</u>
<u>2</u>	<u>150</u>	<u>Premium</u>			<u>10% SALT, 8% Halad-322, 3/10% D.AIR</u>	<u>1.2</u>	<u>15.8</u>
<u>3</u>	<u>15</u>	<u>Premium</u>	<u>Rat Hole</u>				
<u>4</u>	<u>15</u>	<u>Premium</u>	<u>Mouse Hole</u>				

PRESSURES IN PSI

CIRCULATING _____ DISPLACEMENT _____ PRES. USP: BBL.-GAL. 1000 TYPE MUD FLUSH
BREAKDOWN _____ MAXIMUM _____ LOAD & BKDN: BBL.-GAL. _____ PAD: BBL.-GAL. _____
AVERAGE _____ FRACTURE GRADIENT _____ CEMENTMENT: BBL.-GAL. _____ DISPL: BBL.-GAL. _____
SHUT-IN: INSTANT _____ 5-MIN. _____ 15-MIN. DEC 13 1994 CEMENT SLURRY: BBL.-GAL. 69
HYDRAULIC HORSEPOWER _____ TOTAL VOLUME: BBL.-GAL. _____

ORDERED _____ AVAILABLE _____ USED _____ CONSERVATION DIVISION WICHITA, KS
AVERAGE RATES IN BPM _____ REMARKS Thank you, J.B. Log, Tail, Run!
TREATING _____ DISPL. _____ OVERALL _____
CEMENT LEFT IN PIPE _____
FEET 28 REASON SHOE JOINT

CUSTOMER 11107 Fin 12-19
LEASE OXY L-B
WELL NO. 1-36
JOB TYPE Prod Csg
DATE 5-9-94

JOB LOG FORM 2013 R-3

CUSTOMER: MUFFIN DRL9 WELL NO.: 1-36 LEASE: OXV L-8 JOB TYPE: DV Prod case TICKET NO.: 648191

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								Start 2nd Stage
2	0910	4	12			1	150	Pump 500 gal mud flush
2	0920		3					Plug Rat hole 15 sks cmt
2	0925		2					Plug Mouse hole 10 sks cmt
2	0930							Start cement down csg
								155 sks Premium, 10% SALT .8% Aslod-322, .2% D. AIR
3	0935		33					Cement mixed
								Wash out pump & line
3	0937							Release plug
3	0940							Start displacement
3	1002		117				1750	Plug down
								Release Pressure
								DV Tool closed
								Wash up & Rack up
								Job completed
								Thank you Phil, Ron & John

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WICHITA, KS

JOB LOG FORM 2013 R-3

CUSTOMER Murfin Drlg	WELL NO. 1-36	LEASE OXY L-B 1-36	JOB TYPE DV PRODCSS	TICKET NO. 648191
-------------------------	------------------	-----------------------	------------------------	----------------------

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1900							Called out
	2130							On location discuss job Rig Laying down drill pipe to run 5 1/2" 15.5" casing Casing Set @ 5981' Insert Float @ 5953' DV TOOL @ 4900'
								ORIGINAL
	2355							Start casing in hole
5/10	0400							Casing on bottom Rig up to Circulate
1	0415							Start Rotating Casing Rig up to pump truck
1	0505		12				150	Pump mud flush 500 gal
1	0515	6					200	Start mixing cement
1	05							175 sk Premium 10% Salt, .8% Halod-322. 2/10% D-AIR
1	0526		47				200	Cement mixed
1	0530							Wash out pump & line
	0530						15	Release Plug
	0530						150	Start displacement 25 BBL FRESH WATER
			142					117 BBL DRUG MUD
1	0606							Plug down Release Pressure - Float did not Hold Repressure and release 4 times - Float did not hold
1	0615							Repressure csg w.o.c.
1	0750							Released pressure - dried up Drop Free Fall plug
1	0830						1100	Open DV TOOL Circ 15 BBL DRUG mud off truck
1	0845							Hook up to Rig pump to circ
								Continued

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