

36-32-33 W

TRILOBITE TESTING, L.L.C.

Computer Inventoried

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

API #15-175-21395

CONFIDENTIAL

ORIGINAL

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

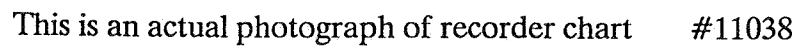
Tool Open @ 6:55 PM Initial Blow STRONG BLOW - BOTTOM IN 2 MINUTES
ISI: BLED OFF BLOW FOR 10 MIN-VERY WEAK SURFACE BLOW IN 20 MINUTES
 Final Blow FAIR BLOW BUILT TO BOTTOM IN 5 MINUTES
FSI: BLED OFF BLOW FOR 20 MINUTES-NO BLOW BACK

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
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____
 BHT 100 °F Gravity 59 °API 00000 ppm Recovery Chlorides 2250 ppm System
 RW 0.17 @ 59 °F 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



OFFICE
READING

(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

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

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

KCC

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OCT 26 1995

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KANSAS CORPORATION COMMISSION

AUG 10 1994

CONSERVATION DIVISION
WICHITA, KS

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10. 10-10-65

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TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

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ORIGINAL

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 527
Top Packer Depth 4172 Drill Collar - 2.25 Ft. Run 9
Bottom Packer Depth 4177 Mud Wt. 37 lb/Gal.
Total Depth 4220 Viscosity 9.8 Filtrate

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 Flush Tool? NO

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Rec. 5 Feet of DRILLING MUD
Rec. Feet of
Rec. Feet of
Rec. Feet of
Rec. Feet of

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WICHITA, KS

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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

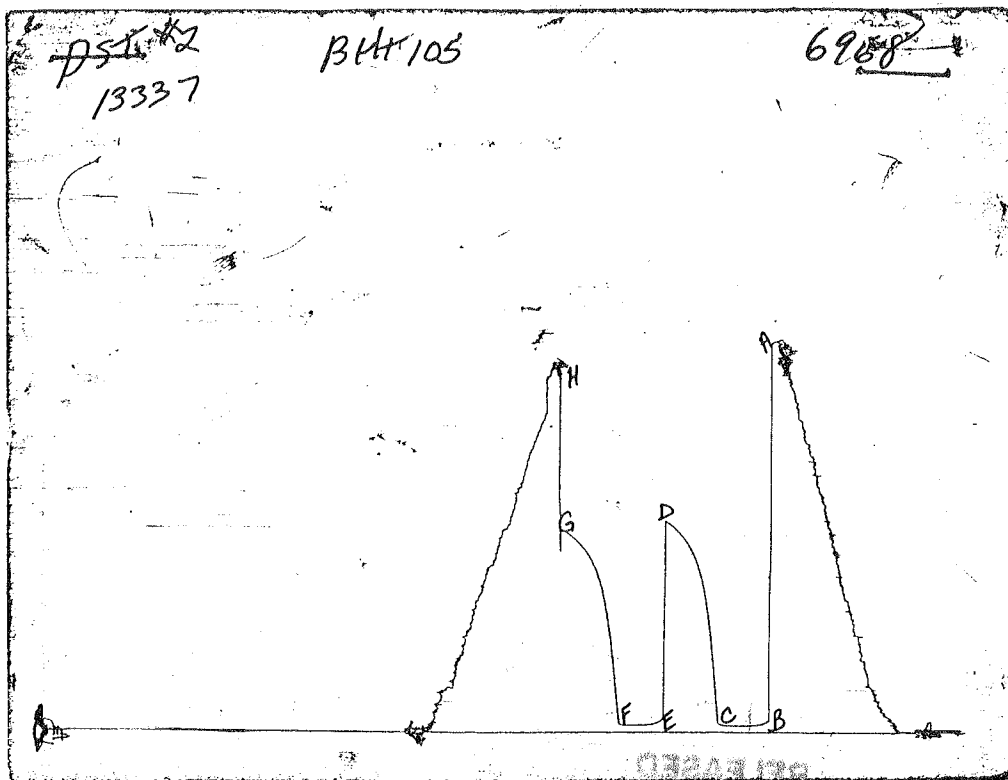
(F) Second Final Flow Pressure 41.4 PSI @ (depth) w / Clock No.

(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

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

Lease: OXY-LB #1-36

Test No.: 2

County: SEWARD

Sec.: 36

Twp.: 32S

Rng.: 33W

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SAMPLER RECOVERY

Gas

Oil

Mud

4000

Water

Other

Pressure

TOTAL 4000

SAMPLER ANALYSIS

Resistivity

ohms@

F

Chlorides

ppm.

Gravity

corrected @60F

PIT MUD ANALYSIS

Chlorides 2750

Resistivity

ohms@

F

Viscosity 37

Mud Wt. 9

Filtrate 9.8

Other

PIPE RECOVERY

TOP

Resistivity

ohms@

F

Chlorides

ppm

MIDDLE

Resistivity

ohms@

F

Chlorides

ppm

BOTTOM

Resistivity

ohms@

F

Chlorides

ppm

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WICHITA, KS

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100-100000

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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> Filtrate

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 2212.6 PSI AK1 Recorder No. 11057 Range 4500

(B) First Initial Flow Pressure 1147.9 PSI @ (depth) 4630 w / Clock No. 30401

(C) First Final Flow Pressure 1146.8 PSI AK1 Recorder No. 11058 Range 4500

(D) Initial Shut-in Pressure 1319.5 PSI @ (depth) 4672 w / Clock No. 25108

(E) Second Initial Flow Pressure 1088.5 PSI AK1 Recorder No. _____ Range _____

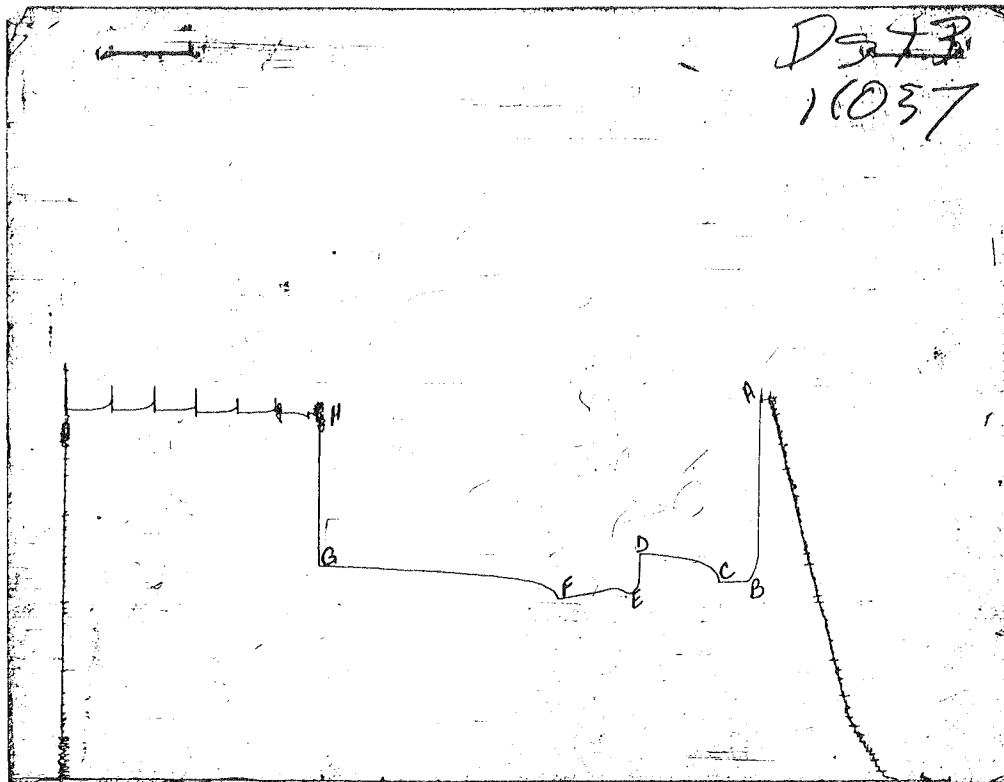
(F) Second Final Flow Pressure 1062.7 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 1271.2 PSI Initial Opening 30 Final Flow 60

(H) Final Hydrostatic Mud 2168.5 PSI Initial Shut-in 60 Final Shut-in 180

Our Representative MARK HERSKOWITZ

CHART PAGE



This is an actual photograph of recorder chart #11057

	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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ORIGINAL

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		
UNCORRECTED INITIAL PRODUCTION:			963.89 BBL
INITIAL PRODUCTION CORRECTED TO FINAL FLOW PRESSURE:			610.10 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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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

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FINAL FLOW

RECORDER 11057

DST # 3

TIME(MIN) PRESSURE <> PRESSURE

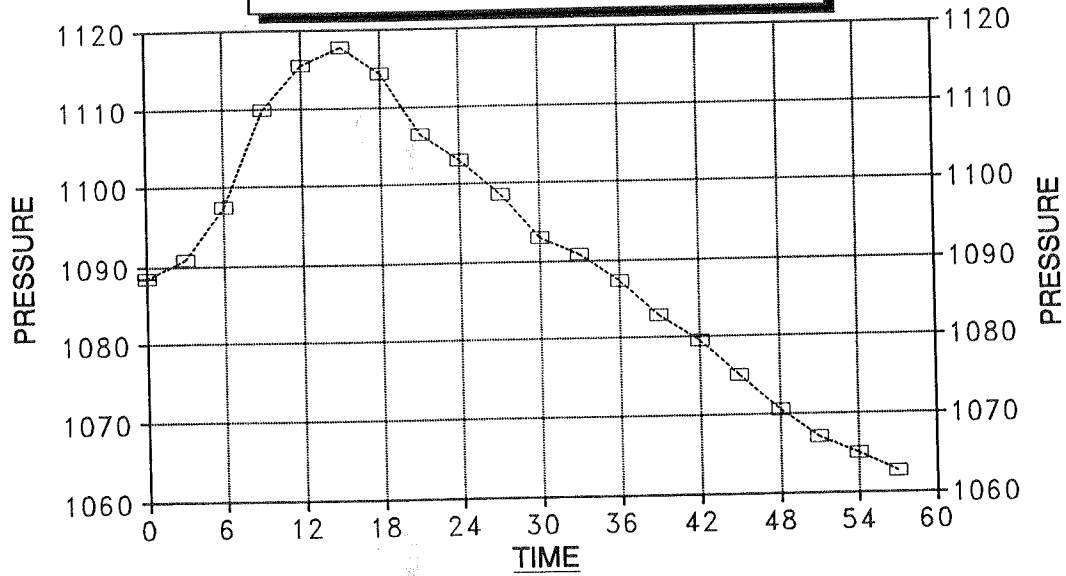
0	1088.5	1088.5
3	1090.8	2.3
6	1097.5	6.7
9	1109.8	12.3
12	1115.4	5.6
15	1117.7	2.3
18	1114.3	-3.4
21	1106.4	-7.9
24	1103.1	-3.3
27	1098.6	-4.5
30	1093.0	-5.6
33	1090.8	-2.2
36	1087.4	-3.4
39	1082.9	-4.5
42	1079.5	-3.4
45	1075.1	-4.4
48	1070.6	-4.5
51	1067.2	-3.4
54	1065.0	-2.2
--	1060.0	0.0

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FINAL FLOW / DST #3



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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

	TIME(MIN)	Pws (psi)	Log 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 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

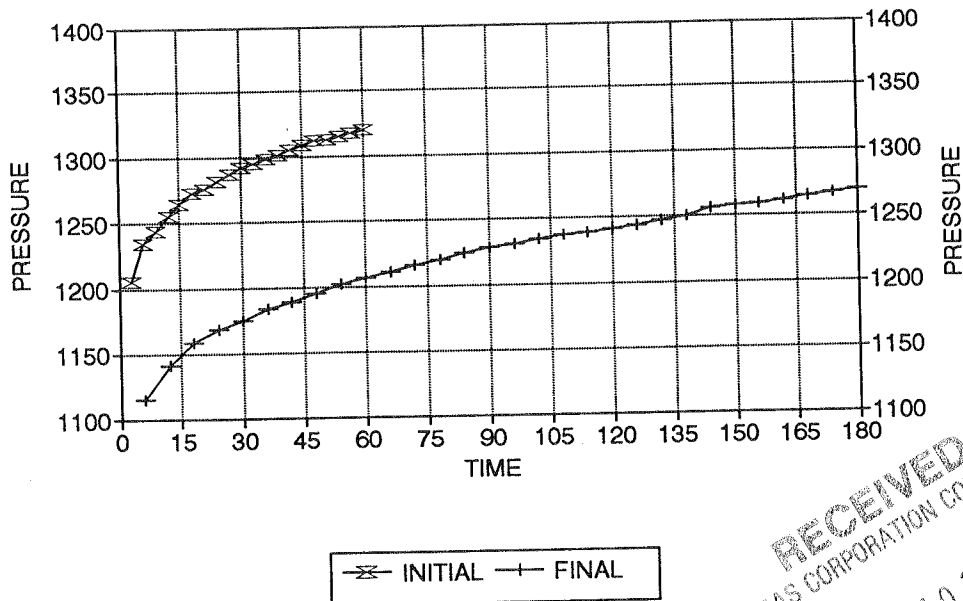
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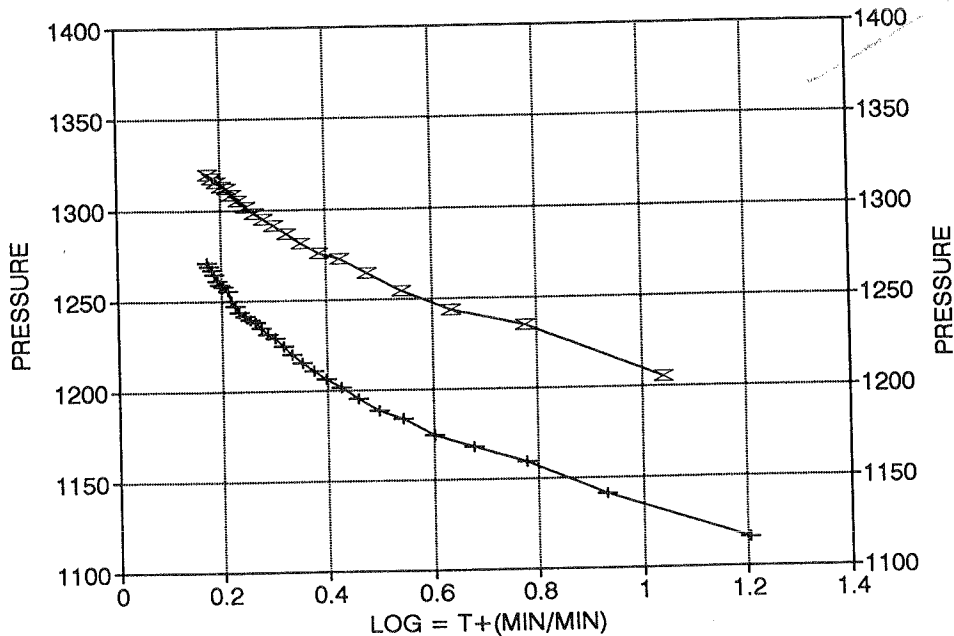
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WICHITA, KS

HORNER PLOT



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FLUID SAMPLER DATA

032A313H

001 3 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

ORIGINAL

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MURFIN DRILLING CO INC

OXY-LB #1-36

DST # 3

MIN	PSIG	ORIFICE	MCF/D	MIN	PSIG	ORIFICE	MCF/D
3	7	1.5	1036	5	OIL TO SURFACE IN 3 MIN		
10	GAS TO SURFACE IN 3 MIN			10			
15	OIL TO SURFACE IN 7 MIN			15			
20				20			
25				25			
30				30			
35				35			
40				40			
45				45			
50				50			
55				55			
60				60			

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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. 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

Recovery - Total Feet 4674

Flush Tool? NO

Rec. 4554 Feet of GAS AND OIL
Rec. 60 Feet of OIL & MUD CUT WATER 10% OIL 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

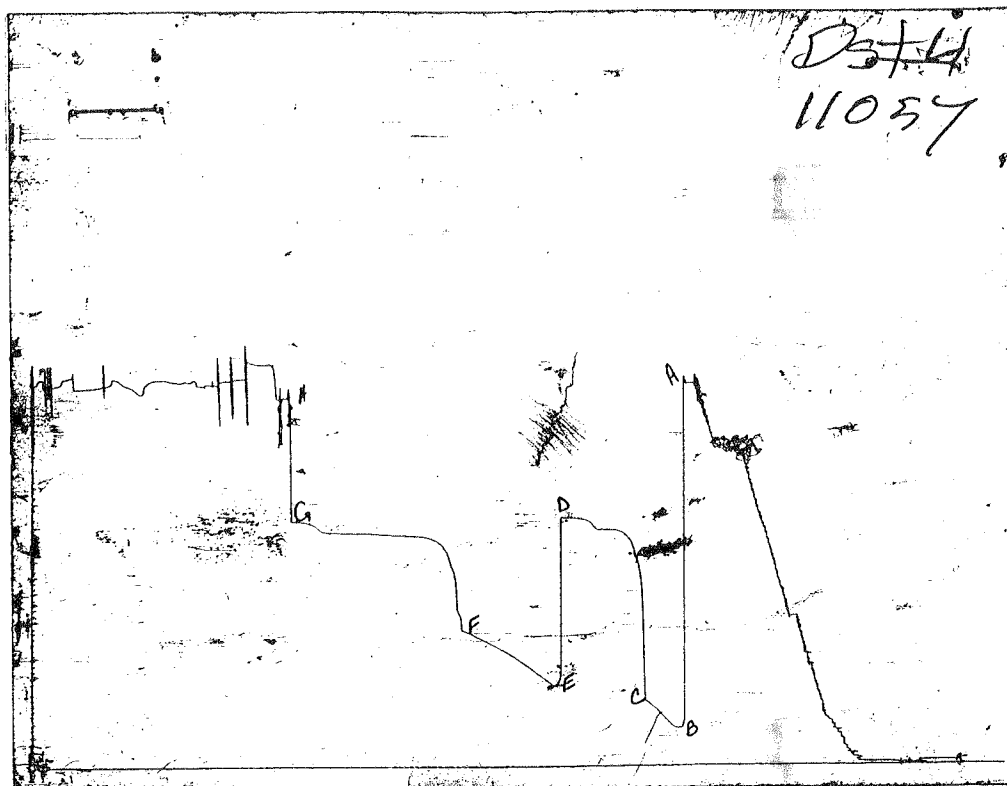
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CHART PAGE



This is an actual photograph of recorder chart #11057

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FIELD
READING

OFFICE
READING

(A) INITIAL HYDROSTATIC MUD	2219	2223.9
(B) FIRST INITIAL FLOW PRESSURE	201	204
(C) FIRST FINAL FLOW PRESSURE	381	372.1
(D) INITIAL CLOSED-IN PRESSURE	1432	1492.1
(E) SECOND INITIAL FLOW PRESSURE	459	477.5
(F) SECOND FINAL FLOW PRESSURE	783	805.8
(G) FINAL CLOSED-IN PRESSURE	1432	1455.1
(H) FINAL HYDROSTATIC MUD	2162	2213.7

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ORIGINAL

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		

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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AUG 10 1994
CONSERVATION DIVISION
WICHITA, KS

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

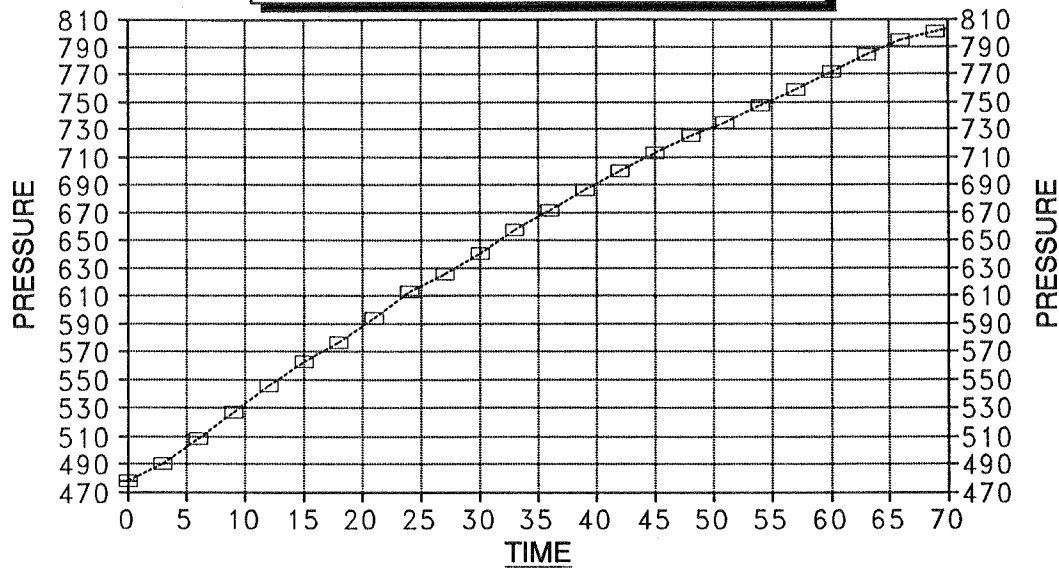
0	477.5	477.5
3	489.8	12.3
6	507.7	17.9
9	526.7	19.0
12	545.7	19.0
15	562.5	16.8
18	577.0	14.5
21	593.7	16.7
24	612.7	19.0
27	626.1	13.4
30	640.6	14.5
33	657.3	16.7
36	671.8	14.5
39	686.3	14.5
42	699.7	13.4
45	713.1	13.4
48	725.4	12.3
51	735.5	10.1
54	747.7	12.2
57	758.9	11.2
60	772.3	13.4
63	784.5	12.2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

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ORIGINAL

DELTA T DELTA P

FINAL FLOW / DST #4



---OXY-LB #1-36

CONFIDENTIAL

INITIAL PRODUCTION CORRECTED TO PSEUDO STEADY FLOW STATE:

268.733

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WICHITA, KS

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 <>
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

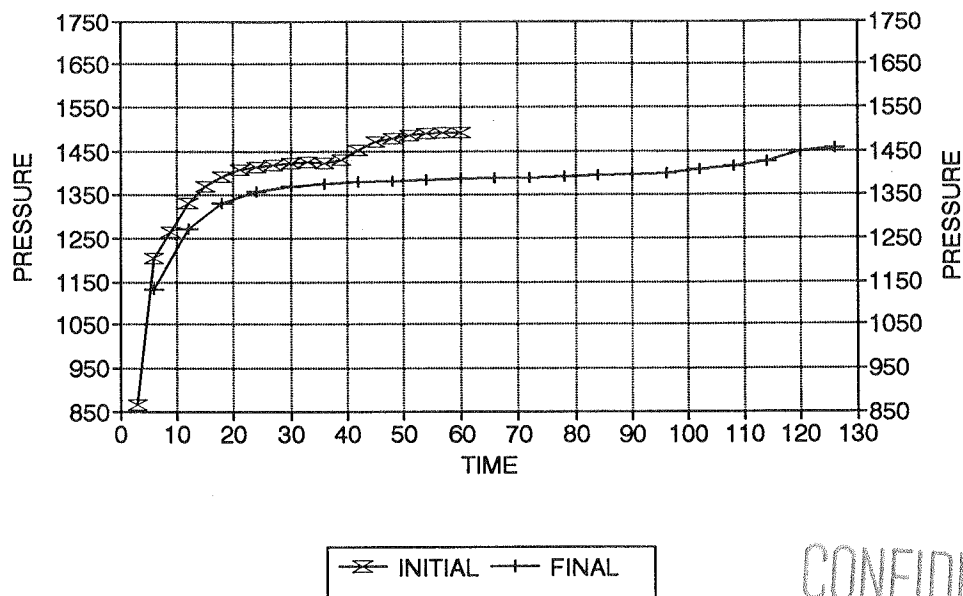
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OCT 26 1995

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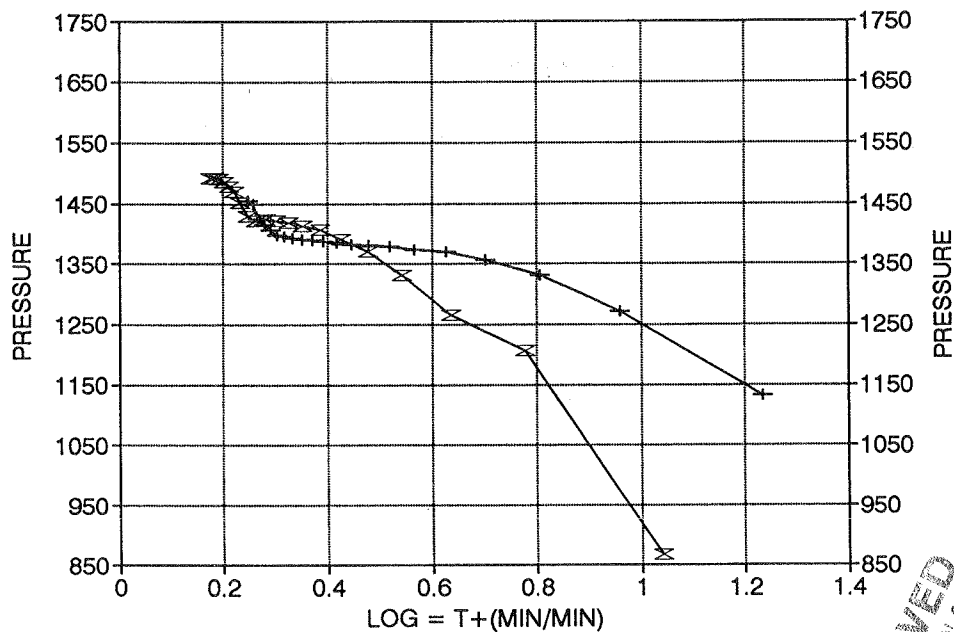
ORIGINAL

FROM CONFIDENTIAL OXY-LB #1-36 / DST #4
DELTA T DELTA P



CONFIDENTIAL

HORNER PLOT



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AUG 10 1994

CONSERVATION DIVISION
WICHITA, KS

FLUID SAMPLER DATA

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

CONFIDENTIAL

ORIGINAL

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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AUG 10 1994

CONSERVATION DIVISION
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 0.000
Nitrogen	N2:	24.141 0.000
Carbon Dioxide	CO2:	0.000 0.000
Methane	C1:	52.222 0.000
Ethane	C2:	8.181 2.188
Propane	C3:	8.140 2.243
Iso Butane	iC4:	0.962 0.315
Normal Butane	nC4:	2.550 0.804
Iso Pentane	iC5:	0.520 0.190
Normal Pentane	nC5:	0.631 0.229
Hexanes Plus	C6+:	0.914 0.399

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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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

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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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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

OCT 26 1995

Recovery - Total Feet 630 Flush Tool? NO
 FROM CONFIDENTIAL

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. _____

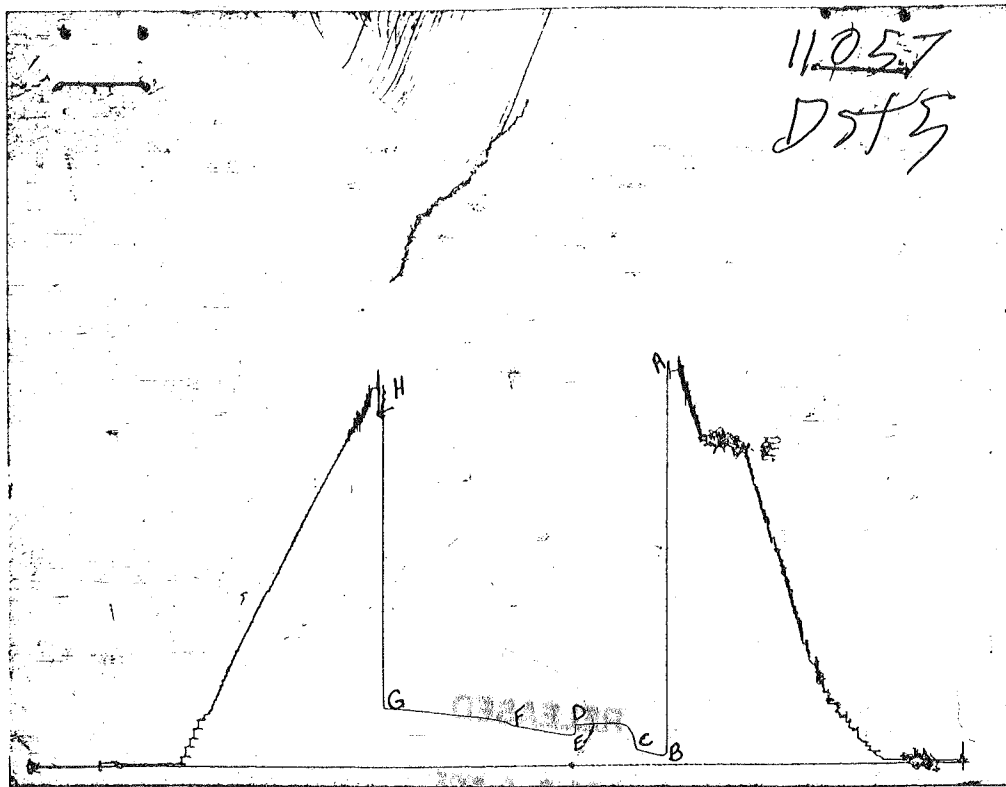
(G) Final Shut-in Pressure 339.6 PSI Initial Opening 20 Final Flow 40

(H) Final Hydrostatic Mud 2185.5 PSI Initial Shut-in 40 Final Shut-in 80

Our Representative MARK HERSKOWITZ

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 CONSERVATION DIVISION
 WICHITA, KS

CHART PAGE



This is an actual photograph of recorder chart #11057

FIELD
READING

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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

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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Remarks: NO GAS TO SURFACE

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

ORIGINAL

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 @ _____ °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

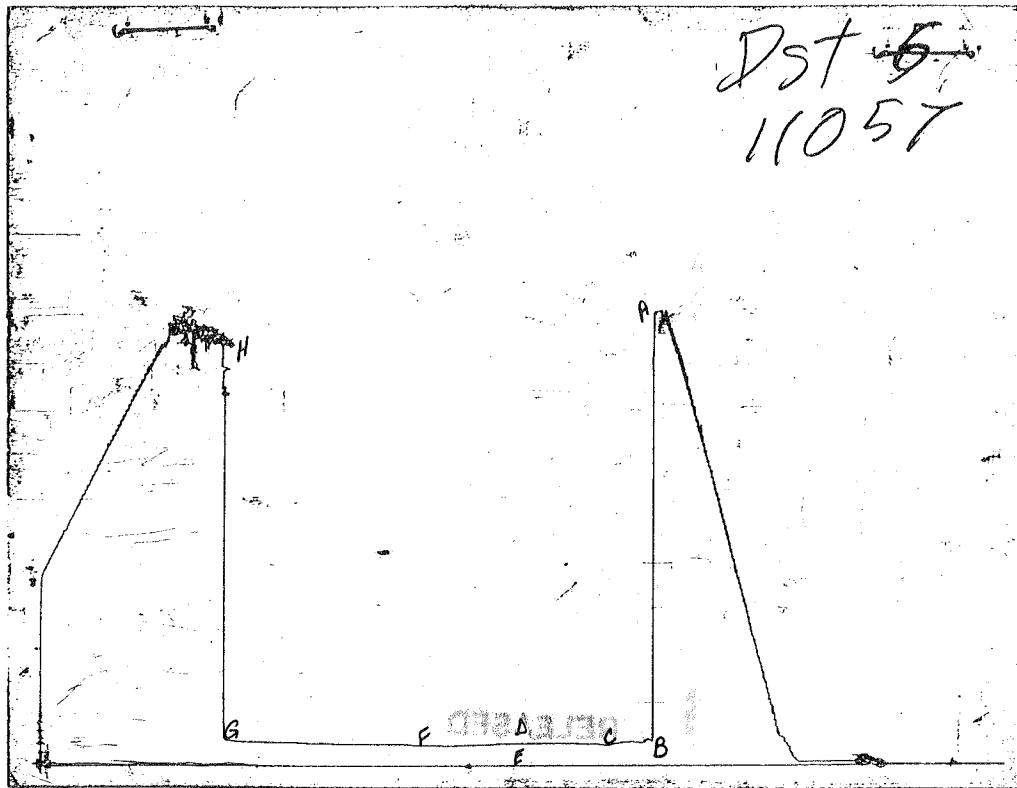
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 WICHITA, KS

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
5	2	0.25	12.7
10	4	0.25	18.5
15	4.5	0.25	19.5
20	4.5	0.25	19.5
25	4.5	0.25	19.5
30	4.5	0.25	19.5

MIN	INCHES	ORIFICE	MCF/D
5	OF WTR		
10	OFF BOTTOM IN 8 MIN		
15	6	0.5	78.1
20	4	0.5	90.1
25	2	0.5	94.5
30	2	0.5	94.5
35	1	0.5	97.8
40		0.5	97.8
45	SHUT 2"		
50	1" BLOW TO BOTTOM IN 15 MIN		
55			
60			

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OCT 26 1995

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AUG 10 1994
CONSERVATION DIVISION
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

PIT MUD ANALYSIS

Chlorides 3500
Resistivity 1.2 ohms@ 98 F
Viscosity 54
Mud Wt. 9
Filtrate 7.8
Other

PIPE RECOVERY

SAMPLER ANALYSIS

Resistivity 1.5 ohms@ 70 F
Chlorides 3800 ppm.
Gravity corrected @60F

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
Nitrogen	N2:	8.159
Carbon Dioxide	CO2:	0.000
Methane	C1:	81.845
Ethane	C2:	5.664
Propane	C3:	2.468
Iso Butane	iC4:	0.401
Normal Butane	nC4:	0.713
Iso Pentane	iC5:	0.114
Normal Pentane	nC5:	0.232
Hexanes Plus	C6+:	0.424

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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KANSAS CORPORATION COMMISSION
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CONSERVATION DIVISION
WICHITA, KS

100-100000

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DOCS & INFO

FROM CONFIDENTIAL

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

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 Tool? NO

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

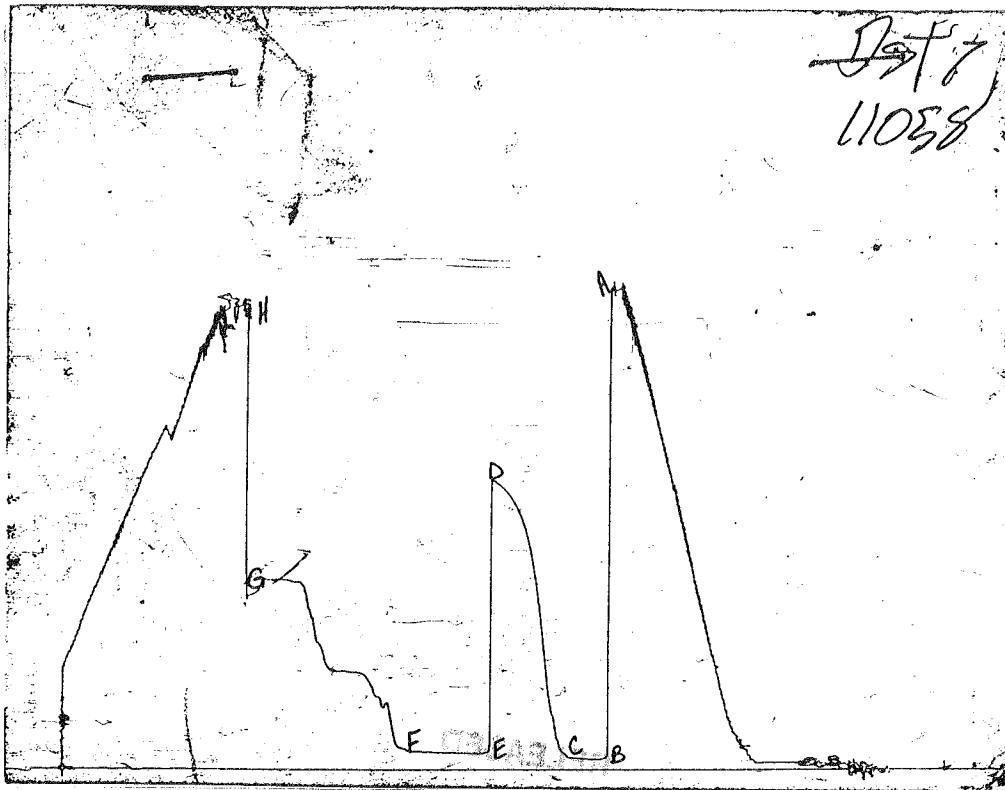
(F) Second Final Flow Pressure 106.6 PSI @ (depth) _____ w / Clock No. _____

(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

CHART PAGE



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	SURFACE TO BOTTOM IN 13 MIN			5	26	0.25	8.58
10				10	22	0.25	7.88
15	NO GAS TO SURFACE ON 1st FLOW			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

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

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 18000 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 _____

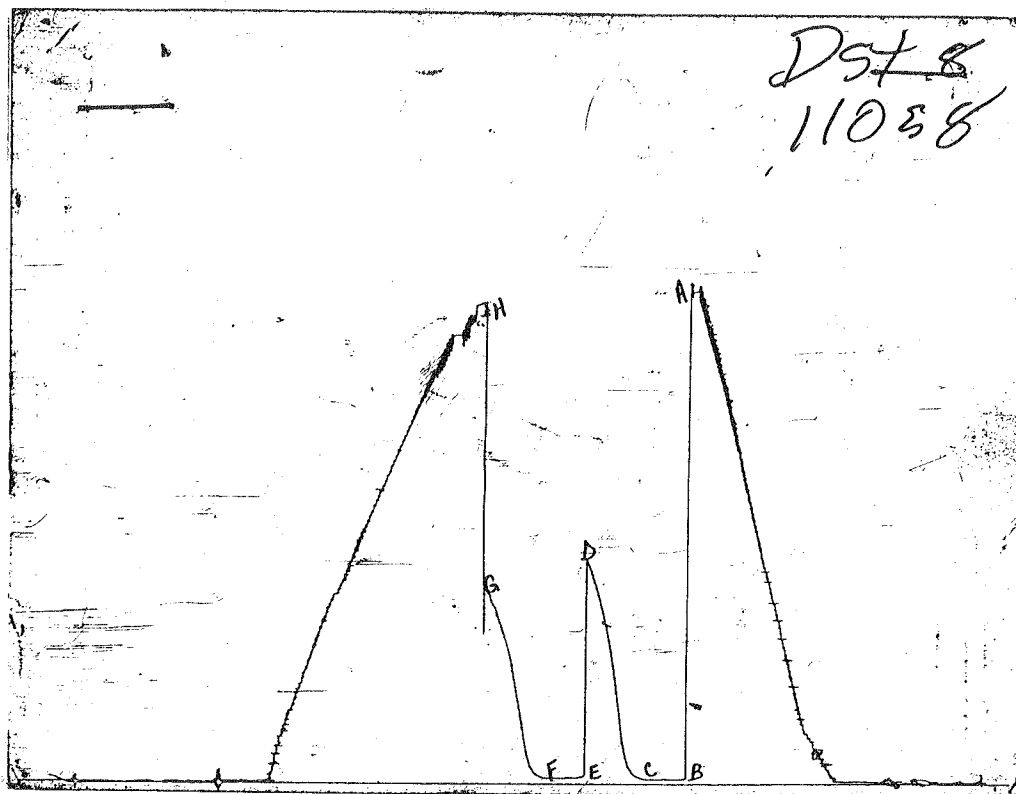
(F) Second Final Flow Pressure 37.7 PSI @ (depth) _____ w / Clock No. _____

(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

CHART PAGE



This is an actual photograph of recorder chart #11058

FIELD
READING

OFFICE
READING

OCT 5 1982

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(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

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Water 2340

OCT 26 1995

Other

FROM CONFIDENTIAL

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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WICHITA, KS

12/1/72

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OCT 5 8 PM '72

FROM CONFIDENTIAL

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

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

Recovery - Total Feet 2731 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 _____

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 _____

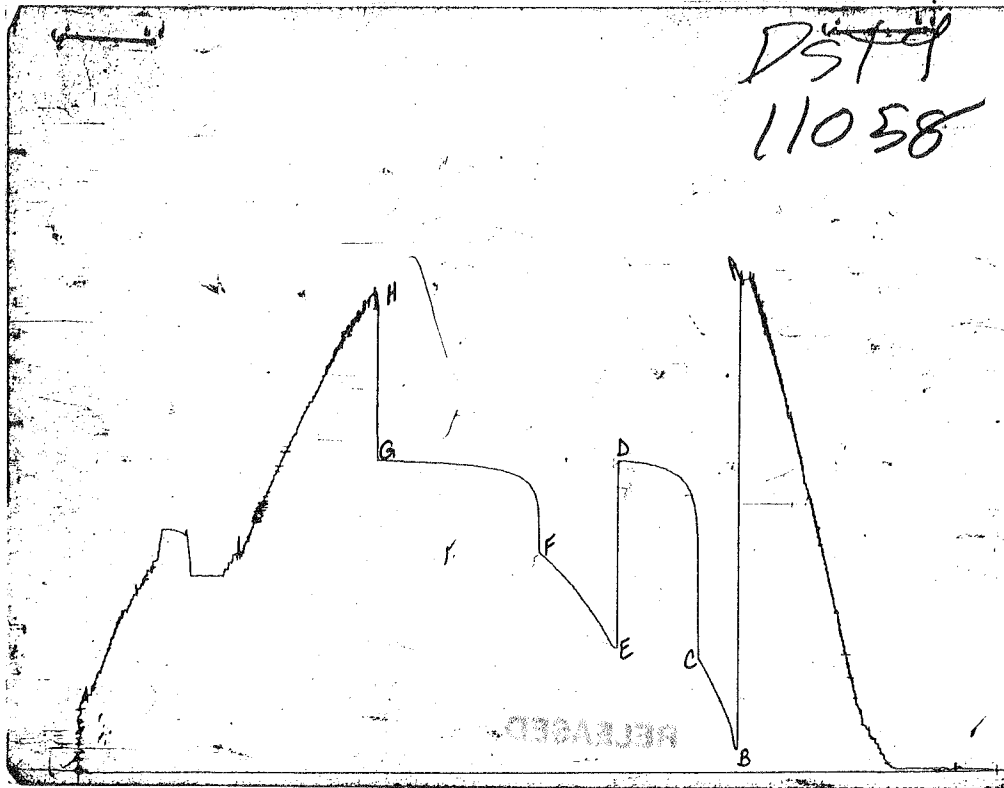
(F) Second Final Flow Pressure 1275.5 PSI @ (depth) _____ w / Clock No. _____

(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



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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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

Remarks: NO GAS TO SURFACE INITIAL OR FINAL OPENING