

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name NE MT SUNFLOWER 1-30 Test No. 1 Date 8/3/94
Company RED OAK ENERGY, INC. Zone MORROW
Address 200 W. DOUGLAS #510 WICHITA KS 67202 Elevation 3819
Co. Rep./Geo. SCOTT BANKS Cont. MURFIN #14 Est. Ft. of Pay 16
Location: Sec. 30 Twp. 15S Rge. 41W Co. WALLACE State KS

Interval Tested	<u>4950-5010</u>	Drill Pipe Size	<u>4.5" XH</u>
Anchor Length	<u>60</u>	Wt. Pipe I.D. - 2.7 Ft. Run	<u>507</u>
Top Packer Depth	<u>4945</u>	Drill Collar - 2.25 Ft. Run	<u>8.6</u>
Bottom Packer Depth	<u>4950</u>	Mud Wt.	<u>55</u> lb/Gal.
Total Depth	<u>5010</u>	Viscosity	<u>8.4</u>

Tool Open @ 3:42 P.M. Initial Blow GOOD BLOW OFF BOTTOM IN 30 SEC. BLOW OFF BOTTOM
IN 20 MIN ON SHUT-IN
Final Blow OFF BOTTOM IN 30 SEC-GAS TO SURFACE IN 21 MIN GAS 32 INS
OF WATER ON 1/4 ORIFICE=9.5 MCF/DAY

Recovery - Total Feet 2236 Flush Tool? NO

Rec. <u>2714</u>	Feet of	<u>GAS IN PIPE</u>
Rec. <u>15</u>	Feet of	<u>MUD 100%MUD</u>
Rec. <u>376</u>	Feet of	<u>GAS OIL WATERY MUD 63% GAS/7%OIL/10%WATER/20%MUD</u>
Rec. <u>567</u>	Feet of	<u>GAS OIL WATER 10%GAS/10%OIL/80%WATER</u>
Rec. <u>1286</u>	Feet of	<u>SALT WATER 100%WATER</u>

BHT 138 °F Gravity 42 °API @ 75 °F Corrected Gravity 40.5 °API
RW 0.2 @ 82 °F Chlorides 30000 ppm Recovery Chlorides 6000 ppm System

(A) Initial Hydrostatic Mud 2423.0 PSI AK1 Recorder No. 11057 Range 4500

(B) First Initial Flow Pressure 239.9 PSI @ (depth) 4952 w / Clock No. 21048

(C) First Final Flow Pressure 694.2 PSI AK1 Recorder No. 2023 Range 4000

(D) Initial Shut-in Pressure 1028.0 PSI @ (depth) 5005 w / Clock No. 25108

(E) Second Initial Flow Pressure 737.7 PSI AK1 Recorder No. Range

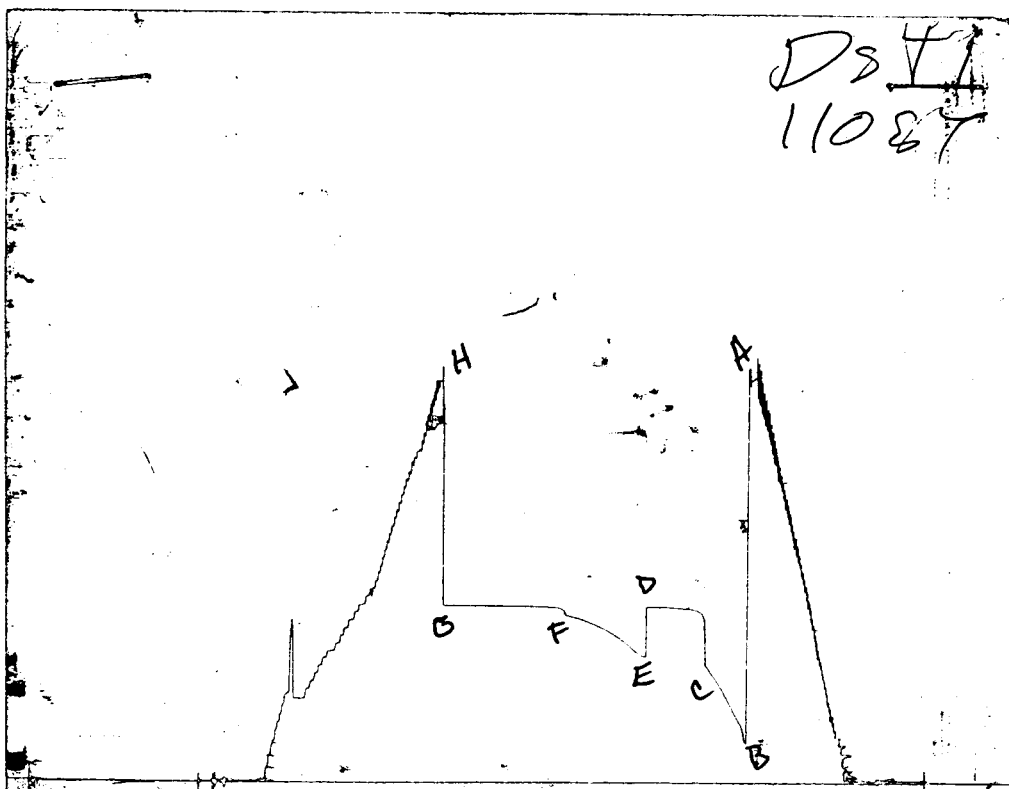
(F) Second Final Flow Pressure 973.2 PSI @ (depth) w / Clock No.

(G) Final Shut-in Pressure 1033.6 PSI Initial Opening 30 Final Flow 60

(H) Final Hydrostatic Mud 2417.4 PSI Initial Shut-in 45 Final Shut-in 90

Our Representative MARK HERSKOWITZ

CHART PAGE



This is an actual photograph of recorder chart

11057

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2343	2423
(B) FIRST INITIAL FLOW PRESSURE	224	239.9
(C) FIRST FINAL FLOW PRESSURE	683	694.2
(D) INITIAL CLOSED-IN PRESSURE	1017	1028
(E) SECOND INITIAL FLOW PRESSURE	727	737.7
(F) SECOND FINAL FLOW PRESSURE	962	973.2
(G) FINAL CLOSED-IN PRESSURE	1017	1033.6
(H) FINAL HYDROSTATIC MUD	2321	2417.4

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

RED OAK ENERGY, INC.

NE MT SUNFLOWER 1-30

DST 1

30

15S

41W

WALLACE KS

ELEVATION:	3819	KB	EST. PAY	16	FT
DATUM:	-1134		ZONE TESTED:	MORROW	
TEST INTERVAL:	4950-5010		TIME INTERVALS:	30-60-45-90	
RECORDER DEPTH:	4952		VISCOSITY:	2.90	CP
BOTTOM HOLE TEMP:	138		HOLE SIZE:	7.875	IN

CUBIC FEET OF GAS IN PIPE:	217				
TOTAL FEET OF RECOVERY:	2236.00		CORRECTED PIPE FILLUP:	2726.050	
TOTAL BARRELS OF RECOVERY:	26.48		CORR. BARRELS OF RECOVERY:	33.446	BBL
BARRELS IN DRILL PIPE:	23.69		API GRAVITY:	41	
BARRELS IN WEIGHT PIPE:	0.00		FLUID GRADIENT:	0.357	
BARRELS IN DRILL COLLARS:	2.79				
GAS OIL RATIO:	8.18		CU.FT/BBL		
BUBBLE POINT PRESSURE:	64				
UNCORRECTED INITIAL PRODUCTION:				423.65	BBL
INITIAL PRODUCTION CORRECTED TO FINAL FLOW PRESSURE:				535.13	BBL/DAY
INITIAL PRODUCTION CORRECTED TO PSEUDO STEADY FLOW STATE:				355.192	

INITIAL SLOPE	39.57	PSI/CYCL	FINAL SLOPE	7.82	PSI/CYCLE
INITIAL P*	1036.78	PSI	FINAL P*	1035.95	PSI

TRANSMISSIBILITY	11123.23	(MD.-FT./CP.)
PERMEABILITY	2016.79	(MD.)
INDICATED FLOW CAPACITY	32268.68	(MD.FT)
PRODUCTIVITY INDEX	12.57	(BARREL/DAY/PSI)
DAMAGE RATIO	1.47	
RADIUS OF INVESTIGATION	426.04	(FT,)
POTENTIOMETRIC SURFACE	1269.38	(FT.)
DRAWDOWN FACTOR	0.079	(%)
THEORETICAL POTENTIAL FROM FINAL FLOW PRESSURE	785.61	
THEORETICAL POTENTIAL FROM PSEUDO STEADY FLOW STATE	521.45	

INITIAL FLOW

RECORDER 11057

DST # 1

TIME(MIN)	PRESSURE	<>PRESSURE
-----------	----------	------------

0	239.9	239.9
3	336.3	96.4
6	383.4	47.1
9	422.6	39.2
12	471.9	49.3
15	516.6	44.7
18	559.1	42.5
21	589.3	30.2
24	629.4	40.1
27	661.8	32.4
30	694.2	32.4

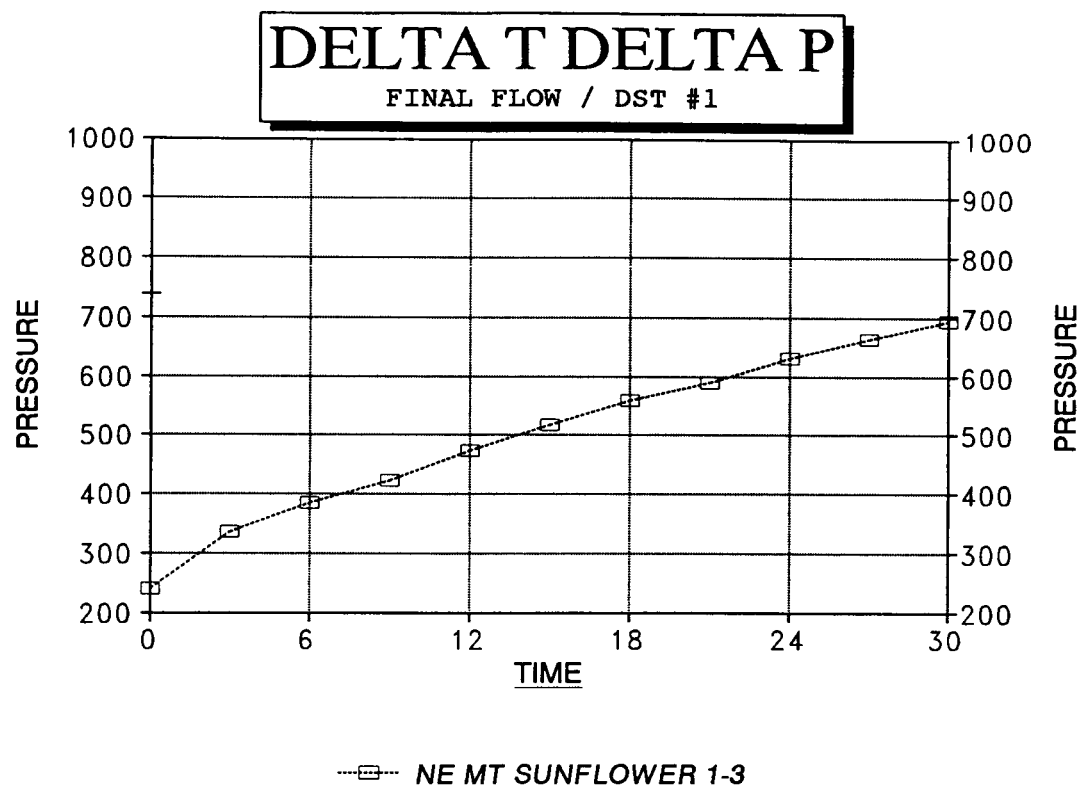
FINAL FLOW

RECORDER 11057

DST # 1

TIME(MIN) PRESSURE <> PRESSURE

0	737.7	737.7
3	755.5	17.8
6	771.2	15.7
9	793.5	22.3
12	813.6	20.1
15	829.2	15.6
18	847.1	17.9
21	863.8	16.7
24	876.1	12.3
27	890.6	14.5
30	901.7	11.1
33	912.9	11.2
36	924.1	11.2
39	931.9	7.8
42	943.1	11.2
45	949.8	6.7
48	956.4	6.6
51	962.0	5.6
54	969.8	7.8
57	973.2	3.4



INITIAL PRODUCTION CORRECTED TO PSEUDO STEADY FLOW STATE:

355.192

NE MT SUNFLOWER DST #1
 INITIAL SHUTIN

30 INITIAL FLOW TIME

SLOPE
 P*

39.57 PSI/CYCLE
 1036.78 PSI

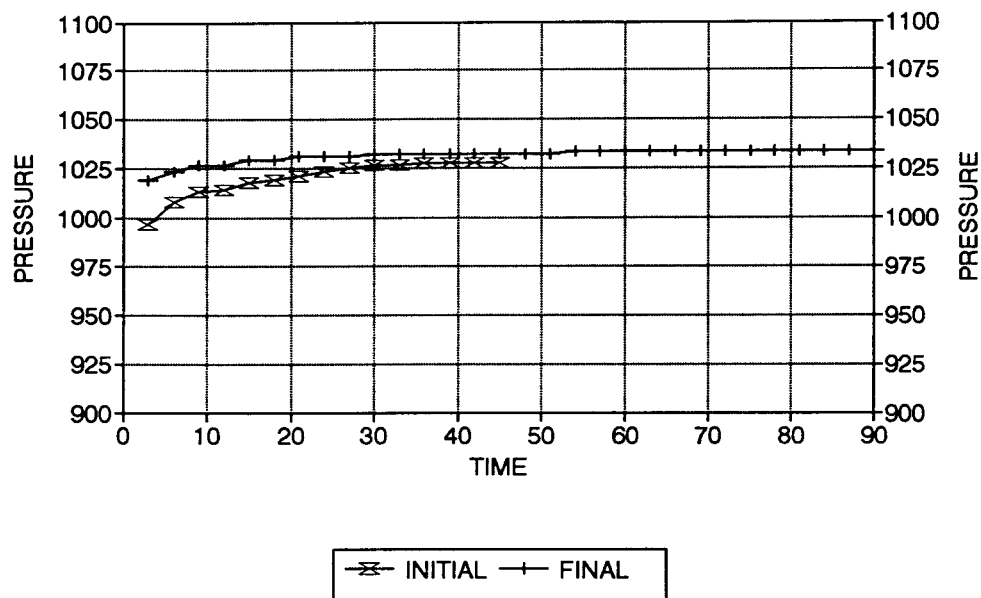
	TIME(MIN)	Pws (psi)	Log Horn T	<> PRESSURE	Horn T
	3	996.6	1.041	996.6	11
	6	1007.8	0.778	11.2	6
	9	1013.4	0.637	5.6	4
	12	1014.5	0.544	1.1	4
	15	1017.9	0.477	3.4	3
X	18	1019.0	0.426	1.1	3
	21	1021.3	0.385	2.3	2
	24	1023.5	0.352	2.2	2
	27	1025.7	0.325	2.2	2
	30	1026.9	0.301	1.2	2
	33	1026.9	0.281	0.0	2
	36	1028.0	0.263	1.1	2
	39	1028.0	0.248	0.0	2
	42	1028.0	0.234	0.0	2
X	45	1028.0	0.222	0.0	2

NE MR SUNFLOWER DST #1
FINAL SHUTIN

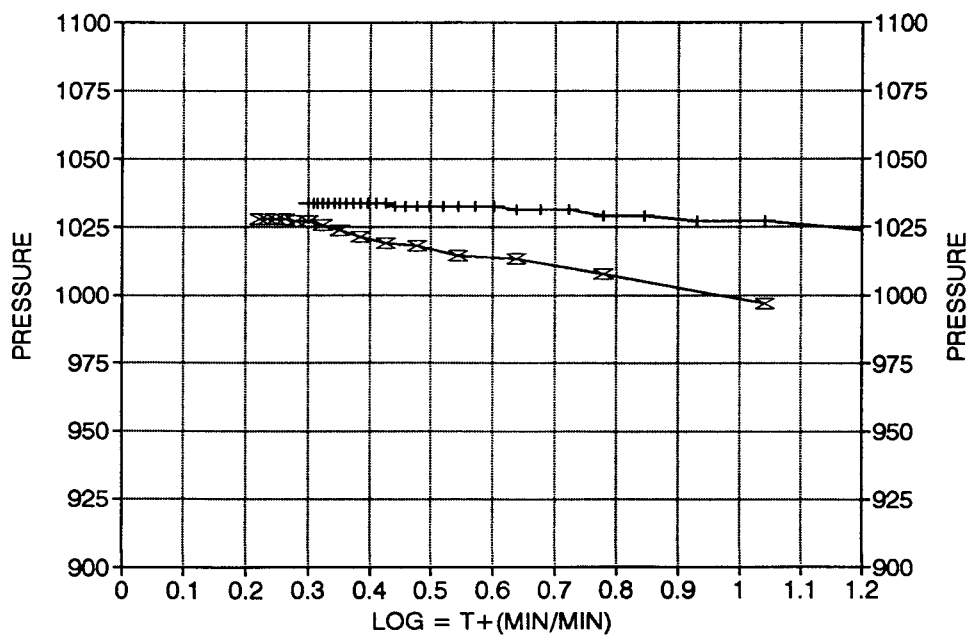
90 TOTAL FLOW TIME SLOPE 7.82 PSI/CYCLE
P* 1035.95 PSI

	TIME(MIN)	Pws(psi)	Log Horn T	<> PRESSURE	Horn T
	3	1019.0	1.491	1019.0	31
	6	1023.5	1.204	4.5	16
	9	1026.9	1.041	3.4	11
	12	1026.9	0.929	0.0	9
	15	1029.1	0.845	2.2	7
	18	1029.1	0.778	0.0	6
	21	1031.3	0.723	2.2	5
	24	1031.3	0.677	0.0	5
	27	1031.3	0.637	0.0	4
	30	1032.5	0.602	1.2	4
	33	1032.5	0.571	0.0	4
	36	1032.5	0.544	0.0	4
	39	1032.5	0.520	0.0	3
	42	1032.5	0.497	0.0	3
	45	1032.5	0.477	0.0	3
	48	1032.5	0.459	0.0	3
X	51	1032.5	0.442	0.0	3
	54	1033.6	0.426	1.1	3
	57	1033.6	0.411	0.0	3
	60	1033.6	0.398	0.0	3
	63	1033.6	0.385	0.0	2
	66	1033.6	0.374	0.0	2
	69	1033.6	0.363	0.0	2
	72	1033.6	0.352	0.0	2
	75	1033.6	0.342	0.0	2
	78	1033.6	0.333	0.0	2
	81	1033.6	0.325	0.0	2
	84	1033.6	0.316	0.0	2
	87	1033.6	0.308	0.0	2
X	90	1033.6	0.301	0.0	2

NE MT SUNFLOWER 1-30 DST #1 DELTA T DELTA P



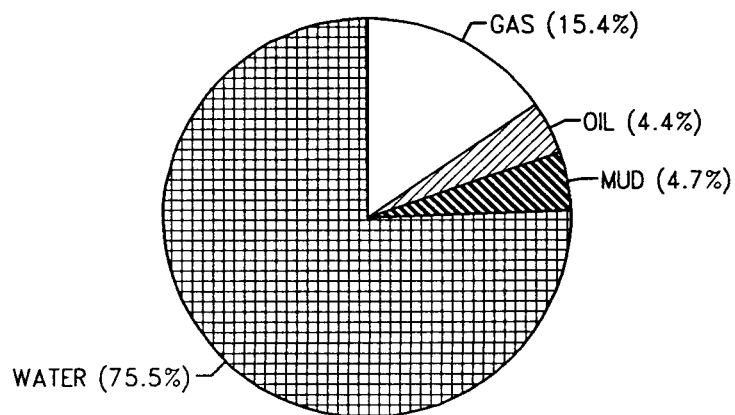
HORNER PLOT



CALCULATED RECOVERY ANALYSIS

DST	1	TICKET # 7152							
SAMPLE #	TOTAL FEET	GAS		OIL		WATER		MUD	
		%	FEET	%	FEET	%	FEET	%	FEET
DRILL 1			0		0		0		0
PIPE 2	15		0		0		0	100	15
3	376	63	236.88	7	26.32	10	37.6	20	75.2
4	567	10	56.7	10	56.7	80	453.6		0
5	776		0		0	100	776		0
6			0		0		0		0
WEIGHT 1			0		0		0		0
PIPE 2			0		0		0		0
3			0		0		0		0
4			0		0		0		0
DRILL 1	507		0		0	100	507		0
COLLAR 2			0		0		0		0
3			0		0		0		0
4			0		0		0		0
5			0		0		0		0
TOTAL	2241		293.58		83.02		1774.2		90.2

			HRS OPEN	BBL/DAY
BBL OIL=	1.1805444	*	1.5	18.88871
BBL WATER=	20.498814	*		327.98102
BBL MUD=	1.282644			
BBL GAS =	4.1747076			



GAS VOLUME REPORT

RED OAK ENERGY, INC.

NE MT SUNFLOWER 1-30

DST # 1

MIN	PSIG	ORIFICE	MCF/D
5	20	0.375	15.9
10	16	0.375	14.2
15	12	0.375	12.4
20	8	0.375	10.1
25	4	0.375	7.14
30	4	0.375	7.14

NO GAS TO SURFACE

MIN	PSIG	ORIFICE	MCF/D
5	30	0.25	9.2
10	36	0.25	10.1
15	36	0.25	10.1
20	32	0.25	9.5
25	28	0.25	8.8
30	30	0.25	9.2
35	32	0.25	9.5
40	32	0.25	9.5
45	32	0.25	9.5
50	32	0.25	9.5
55	32	0.25	9.5
60	32	0.25	9.5

GAS TO SURFACE 21 MIN
FINAL FLOW

Remarks:

FLUID SAMPLER DATA

Ticket No.: 7152 Date: 8/3/94
Company: RED OAK ENERGY, INC.
Lease: NE MT SUNFLOWER 1-30 Test No.: 1
County: WALLACE Sec.: 30 Twp.: 15S Rng.: 41W

SAMPLER RECOVERY

Gas 1.67CUFT
Oil 1600
Mud
Water 2400
Other
Pressure 725
TOTAL 4000

SAMPLER ANALYSIS

Resistivity 0.18 ohms@ 86 F
Chlorides 30000 ppm.
Gravity 40.5 corrected @60F

PIT MUD ANALYSIS

Chlorides 6000
Resistivity 0.8 ohms@ 95 F
Viscosity 55
Mud Wt. 8.6
Filtrate 8.4
Other P.V. 20 Y.P. 10

PIPE RECOVERY

TOP

Resistivity ohms@ F
Chlorides MUD ppm

MIDDLE

Resistivity ohms@ F
Chlorides ppm

BOTTOM

Resistivity 0.2 ohms@ 82 F
Chlorides 30000 ppm

Geo. UMR

WELL NAME Ne MT Sunflower DST # 1

RECORDER # 11057

INIT. HYD. MUD. 2.160 2423.0A

FINAL HYD. MUD 2.155 2417.4

INITIAL FLOW
MINUTES 30
INTERVAL 3

INITIAL SHUTIN
MINUTES 45
INTERVAL 3

FINAL FLOW
MINUTES 60
INTERVAL 3

FINAL SHUTIN
MINUTES 90
INTERVAL 3

<u>.214</u>	<u>239.9</u>	<u>B</u>	<u>.891</u>	<u>996.6</u>	<u>1</u>	<u>.659</u>	<u>737.7</u>	<u>E</u>	<u>.911</u>	<u>1019.0</u>
<u>.300</u>	<u>336.3</u>		<u>.901</u>	<u>1007.8</u>	<u>2</u>	<u>.675</u>	<u>755.5</u>		<u>.915</u>	<u>1023.5</u>
<u>.342</u>	<u>383.4</u>		<u>.906</u>	<u>1013.4</u>	<u>3</u>	<u>.689</u>	<u>771.2</u>		<u>.918</u>	<u>1026.9</u>
<u>.377</u>	<u>422.6</u>		<u>.907</u>	<u>1014.5</u>	<u>4</u>	<u>.709</u>	<u>793.5</u>		<u>.918</u>	<u>1026.9</u>
<u>.421</u>	<u>471.9</u>		<u>.910</u>	<u>1017.9</u>	<u>5</u>	<u>.727</u>	<u>813.6</u>		<u>.920</u>	<u>1029.1</u>
<u>.461</u>	<u>516.6</u>		<u>.911</u>	<u>1019.0</u>	<u>6</u>	<u>.741</u>	<u>829.2</u>		<u>.920</u>	<u>1029.1</u>
<u>.499</u>	<u>559.1</u>		<u>.913</u>	<u>1021.3</u>	<u>7</u>	<u>.757</u>	<u>847.1</u>		<u>.922</u>	<u>1031.3</u>
<u>.526</u>	<u>589.3</u>		<u>.915</u>	<u>1023.5</u>	<u>8</u>	<u>.772</u>	<u>863.8</u>		<u>.922</u>	<u>1031.3</u>
<u>.562</u>	<u>629.4</u>		<u>.917</u>	<u>1025.7</u>	<u>9</u>	<u>.783</u>	<u>876.1</u>		<u>.922</u>	<u>1031.3</u>
<u>.591</u>	<u>661.8</u>		<u>.918</u>	<u>1026.9</u>	<u>10</u>	<u>.796</u>	<u>890.6</u>		<u>.923</u>	<u>1032.5</u>
<u>.620</u>	<u>694.2</u>	<u>C</u>	<u>.918</u>	<u>1026.9</u>	<u>11</u>	<u>.806</u>	<u>901.7</u>		<u>.923</u>	<u>1032.5</u>
			<u>.919</u>	<u>1028.0</u>	<u>12</u>	<u>.816</u>	<u>912.9</u>		<u>.923</u>	<u>1032.5</u>
			<u>.919</u>	<u>1028.0</u>	<u>13</u>	<u>.826</u>	<u>924.1</u>		<u>.923</u>	<u>1032.5</u>
			<u>.919</u>	<u>1028.0</u>	<u>14</u>	<u>.833</u>	<u>931.9</u>		<u>.923</u>	<u>1032.5</u>
			<u>.919</u>	<u>1028.0</u>	<u>15</u>	<u>.843</u>	<u>943.1</u>		<u>.923</u>	<u>1032.5</u>
					<u>16</u>	<u>.849</u>	<u>949.8</u>		<u>.923</u>	<u>1032.5</u>
					<u>17</u>	<u>.855</u>	<u>956.4</u>		<u>.923</u>	<u>1032.5</u>
					<u>18</u>	<u>.860</u>	<u>962.0</u>		<u>.924</u>	<u>1033.6</u>
					<u>19</u>	<u>.867</u>	<u>969.8</u>		<u>.924</u>	<u>1033.6</u>
					<u>20</u>	<u>.870</u>	<u>973.2</u>	<u>F</u>	<u>.924</u>	<u>1033.6</u>
					<u>21</u>				<u>.924</u>	<u>1033.6</u>
					<u>22</u>				<u>.924</u>	<u>1033.6</u>
					<u>23</u>				<u>.924</u>	<u>1033.6</u>
					<u>24</u>				<u>.924</u>	<u>1033.6</u>
					<u>25</u>				<u>.924</u>	<u>1033.6</u>
					<u>26</u>				<u>.924</u>	<u>1033.6</u>
					<u>27</u>				<u>.924</u>	<u>1033.6</u>
									<u>.924</u>	<u>1033.6</u>
									<u>.924</u>	<u>1033.6</u>

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name NE MT SUNFLOWER 1-30 Test No. 2 Date 8/5/94
Company RED OAK ENERGY, INC. Zone MORROW
Address 200 W. DOUGLAS #510 WICHITA KS 67202 Elevation 3819
Co. Rep./Geo. SCOTT BANKS Cont. MURFIN #14 Est. Ft. of Pay KS
Location: Sec. 30 Twp. 15S Rge. 41W Co. WALLACE State KS

Interval Tested	<u>5069-5250</u>	Drill Pipe Size	<u>4.5" XH</u>
Anchor Length	<u>181</u>	Wt. Pipe I.D. - 2.7 Ft. Run	<u>414</u>
Top Packer Depth	<u>5061-5063</u>	Drill Collar - 2.25 Ft. Run	<u>8.8</u>
Bottom Packer Depth	<u>5069-5071</u>	Mud Wt.	<u>52</u> lb/Gal.
Total Depth	<u>5250-5252</u>	Viscosity	<u>8.8</u>

Tool Open @ 7:33 A.M. Initial Blow OPEN 2" TO BOTTOM IN 25 MIN

Final Blow WEAK SURFACE TO 8" IN 60 MIN

Recovery - Total Feet 553 Flush Tool? NO

Rec. <u>553</u>	Feet of <u>MUD WATER 75% WATER/25% MUD</u>
Rec. _____	Feet of _____
Rec. _____	Feet of _____
Rec. _____	Feet of _____
Rec. _____	Feet of _____

BHT 142 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW 0.21 @ 70 °F Chlorides 32000 ppm Recovery Chlorides 6900 ppm System

(A) Initial Hydrostatic Mud 2541.8 PSI AK1 Recorder No. 11057 Range 4500

(B) First Initial Flow Pressure 95.2 PSI @ (depth) 5071 w / Clock No. 21048

(C) First Final Flow Pressure 190.5 PSI AK1 Recorder No. 11058 Range 4500

(D) Initial Shut-in Pressure 974.3 PSI @ (depth) 5245 w / Clock No. 25108

(E) Second Initial Flow Pressure 218.6 PSI AK1 Recorder No. _____ Range _____

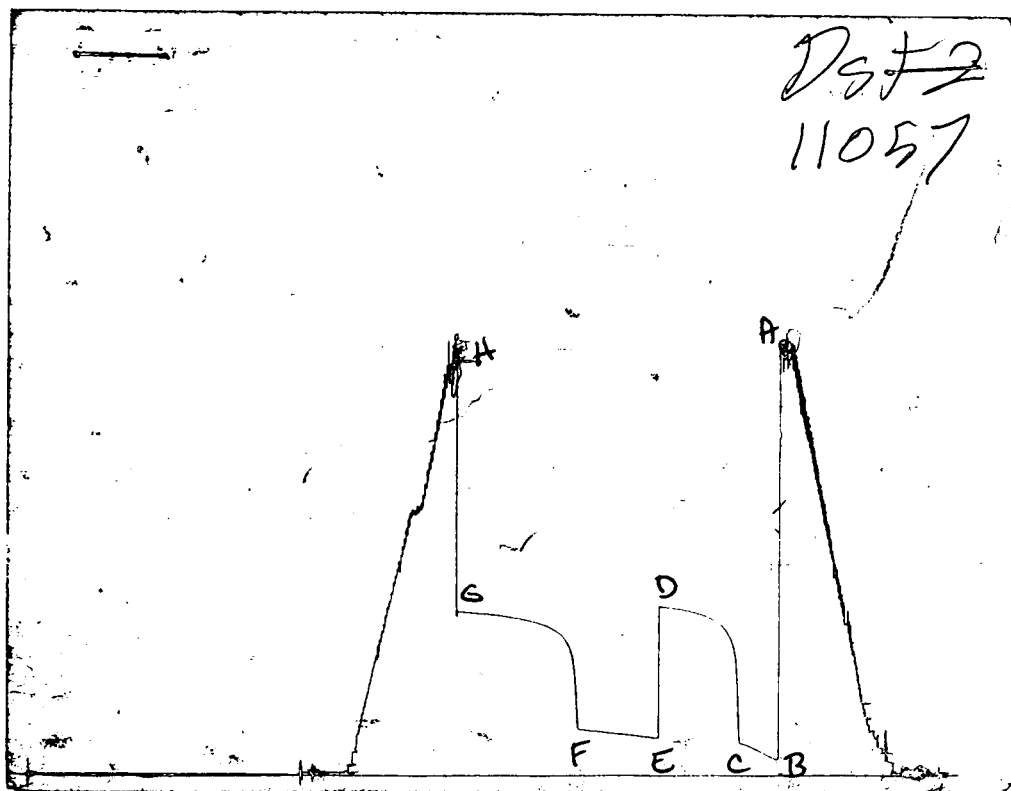
(F) Second Final Flow Pressure 266.8 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 943.1 PSI Initial Opening 30 Final Flow 60

(H) Final Hydrostatic Mud 2529.4 PSI Initial Shut-in 60 Final Shut-in 90

Our Representative MARK HERSKOWITZ

CHART PAGE



This is an actual photograph of recorder chart 11057

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2457	2541.8
(B) FIRST INITIAL FLOW PRESSURE	89	95.2
(C) FIRST FINAL FLOW PRESSURE	179	190.5
(D) INITIAL CLOSED-IN PRESSURE	984	974.3
(E) SECOND INITIAL FLOW PRESSURE	213	218.6
(F) SECOND FINAL FLOW PRESSURE	257	266.8
(G) FINAL CLOSED-IN PRESSURE	950	943.1
(H) FINAL HYDROSTATIC MUD	2426	2529.4

FLUID SAMPLER DATA

Ticket No.: 7153 Date: 8/5/94
Company: RED OAK ENERGY, INC.
Lease: NE MT SUNFLOWER 1-30 Test No.: 2
County: WALLACE Sec.: 30 Twp.: 15S Rng.: 41W

SAMPLER RECOVERY

Gas
Oil
Mud 500
Water 3500
Other
Pressure 75
TOTAL 4000

SAMPLER ANALYSIS

Resistivity 0.21 ohms@ 70 F
Chlorides 32000 ppm.
Gravity corrected @60F

PIT MUD ANALYSIS

Chlorides 6900
Resistivity 0.65 ohms@ 90 F
Viscosity 52
Mud Wt. 8.8
Filtrate 8.8
Other P.V. 16 Y.P.14

PIPE RECOVERY

TOP

Resistivity 0.21 ohms@ 70 F
Chlorides 32000 ppm

MIDDLE

Resistivity 0.21 ohms@ 70 F
Chlorides 32000 ppm

BOTTOM

Resistivity 0.21 ohms@ 70 F
Chlorides 32000 ppm

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name NE MT SUNFLOWER 1-30 Test No. 3 Date UP MORROW
Company RED OAK ENERGY, INC. Zone UP MORROW
Address 200 W. DOUGLAS #510 WICHITA KS 67202 Elevation 2819
Co. Rep./Geo. SCOTT BANKS Cont. MURFIN #14 Est. Ft. of Pay
Location: Sec. 30 Twp. 15S Rge. 41W Co. WALLACE State KS

Interval Tested 4954-5004
Anchor Length 50
Top Packer Depth 4949-4954
Bottom Packer Depth 5004
Total Depth 5252

Drill Pipe Size 4.5" XH
Wt. Pipe I.D. - 2.7 Ft. Run
Drill Collar - 2.25 Ft. Run 367
Mud Wt. 8.8 lb/Gal.
Viscosity 52 Filtrate 8.8

Tool Open @ 4:25 P.M. Initial Blow OPEN 3" TO BOTTOM IN 17 MIN-3/4" BLOW ON FIRST SHUT-IN

Final Blow OFF BOTTOM IN 4 MIN-NO GAS TO SURFACE 2 1/2" BLOW
ON FINAL SHUT-IN

Recovery - Total Feet 150 Flush Tool? NO

Rec. 1251 Feet of GAS IN PIPE
Rec. 150 Feet of SLIGHTLY OIL SPECKED MUD
Rec. Feet of
Rec. Feet of
Rec. Feet of

BHT 140 °F Gravity °API @ °F Corrected Gravity °API
RW @ °F Chlorides ppm Recovery Chlorides 6900 ppm System

(A) Initial Hydrostatic Mud 2345.0 PSI AK1 Recorder No. 11057 Range 4500

(B) First Initial Flow Pressure 63.8 PSI @ (depth) 4957 w / Clock No. 21048

(C) First Final Flow Pressure 76.2 PSI AK1 Recorder No. 11058 Range 4500

(D) Initial Shut-in Pressure 545.7 PSI @ (depth) 4994 w / Clock No. 25108

(E) Second Initial Flow Pressure 95.2 PSI AK1 Recorder No. 2023 Range 4000

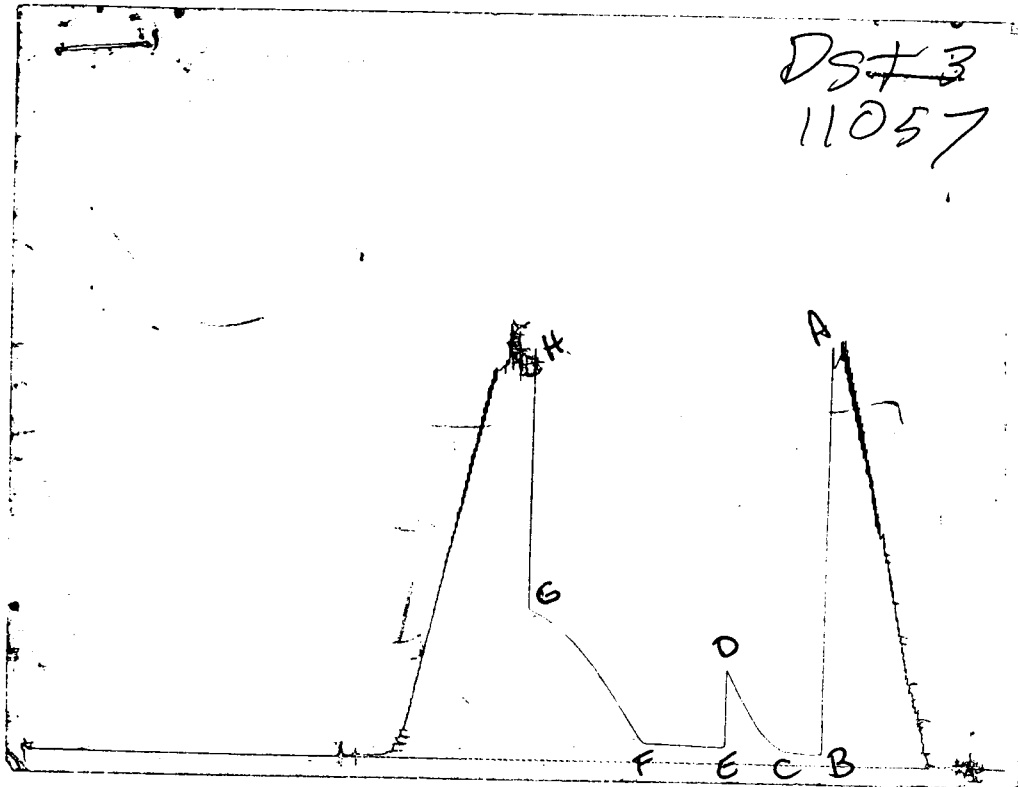
(F) Second Final Flow Pressure 108.7 PSI @ (depth) 5248 w / Clock No. 7452

(G) Final Shut-in Pressure 885.0 PSI Initial Opening 30 Final Flow 60

(H) Final Hydrostatic Mud 2266.9 PSI Initial Shut-in 45 Final Shut-in 90

Our Representative MARK HERSKOWITZ

CHART PAGE



This is an actual photograph of recorder chart 11057

FIELD
READING

OFFICE
READING

(A) INITIAL HYDROSTATIC MUD	2343	2345
(B) FIRST INITIAL FLOW PRESSURE	56	63.8
(C) FIRST FINAL FLOW PRESSURE	67	76.2
(D) INITIAL CLOSED-IN PRESSURE	537	545.7
(E) SECOND INITIAL FLOW PRESSURE	78	95.2
(F) SECOND FINAL FLOW PRESSURE	100	108.7
(G) FINAL CLOSED-IN PRESSURE	883	885
(H) FINAL HYDROSTATIC MUD	2298	2266.9

FLUID SAMPLER DATA

Ticket No.: 7154 **Date:** 8/5/94
Company: RED OAK ENERGY, INC.
Lease: NE MT SUNFLOWER 1-30 **Test No.:** 3
County: WALLACE **Sec.:** 30 **Twp.:** 15S **Rng.:** 41W

SAMPLER RECOVERY

Gas 0.12
Oil TRACE
Mud 4000
Water
Other
Pressure 275
TOTAL 4000

SAMPLER ANALYSIS

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

PIT MUD ANALYSIS

Chlorides 6900
Resistivity 0.65 ohms@ 90 F
Viscosity 52
Mud Wt. 8.8
Filtrate 8.8
Other P.V. 16 Y.P.14

PIPE RECOVERY

TOP

Resistivity ohms@ F
Chlorides MUD ppm

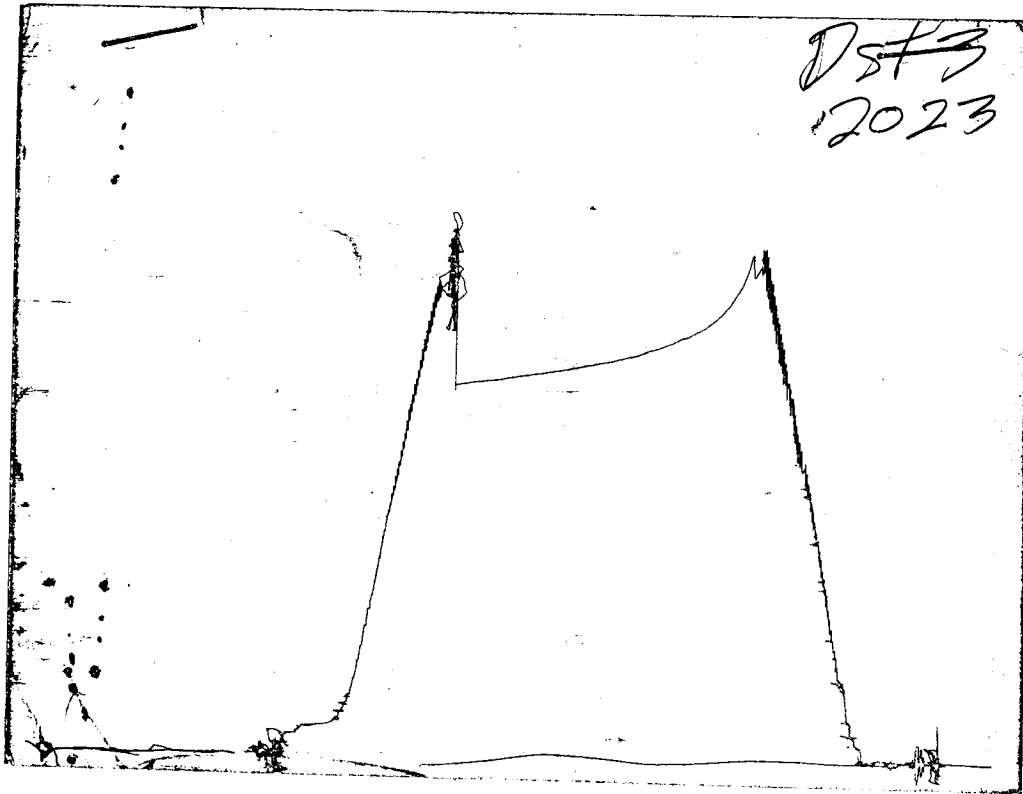
MIDDLE

Resistivity ohms@ F
Chlorides MUD ppm

BOTTOM

Resistivity ohms@ F
Chlorides MUD ppm

CHART PAGE



This is an actual photograph of recorder chart

FIELD
READING

OFFICE
READING

- (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