

Production History

Ashland Federal #1
E-13-17S-37E

<u>Month-Yr</u>	<u>Oil, BBL</u>	<u>Gas, MCF</u>	<u>GOR, SCF/STB</u>
December - 85	170	238	1400
January - 86	12651	17257	1364
February	11038	10272	931
March	13959	16779	1202
April	13228	15634	1182
May	13363	15445	1156
June	11604	13273	1144
July	13911	18028	1296
August	13634	21367	1567
September	13009	22531	1732
October	11547	21416	1855
November	<u>11073</u>	<u>23723</u>	2142
Cumulative 11/86	139187	195963	

Lea Farms #2
H-14-17S-37E

<u>Month-Yr</u>	<u>Oil, BBL</u>	<u>Gas, MCF</u>	<u>GOR, SCF/BBL</u>
May - 86	11700	13450	1150
June	12425	20971	1688
July	13325	18062	1356
August	13411	21431	1598
September	11685	20940	1792
October	10267	20104	1958
November	<u>9702</u>	<u>21250</u>	2190
Cumulative 11/86	82515	136208	

LOG ANALYSIS
LEA FARMS #2
H-14-17S-37E

Strawn Pay Interval 11512-11580

ϕ Cutoff = 3%

Rw = .04

Depth	ϕ	Sw
11512	3.2	23.6
13	8.1	11.0
14	9.6	8.5
15	7.2	10.5
16	4.4	15.2
26	3.4	20.8
27	7.7	10.6
28	9.9	10.1
29	10.4	9.9
30	10.5	10.2
31	11.1	10.1
32	10.6	10.9
33	9.2	11.6
34	7.3	13.7
35	5.2	14.5
36	4.1	15.4
37	4.3	14.7
38	5.9	12.0
39	7.8	11.5
40	8.7	10.8

Depth	ϕ	Sw
11541	9.3	11.0
42	8.9	11.2
43	8.8	11.4
44	9.1	12.7
45	8.7	13.3
46	8.5	11.8
47	8.4	11.9
48	10.3	9.7
49	12.2	8.2
50	11.5	8.7
51	11.4	8.8
52	11.9	8.4
53	11.9	10.0
54	11.6	10.9
55	9.8	11.8
56	7.1	15.8
57	7.3	13.7
58	6.0	13.6
59	3.5	21.6
61	3.8	19.9

Depth	ϕ	Sw
11562	4.4	17.2
63	4.8	15.8
64	4.9	15.4
65	4.3	17.6
66	4.0	22.4
67	3.6	26.2
68	4.9	18.2
69	6.1	14.0
70	6.8	12.5
71	5.5	15.5
72	5.4	15.1
73	4.4	17.2
74	4.2	18.0
75	4.5	17.4
76	5.4	15.1
77	4.8	18.6
78	7	12.8
79	8.2	10.0
80	5.2	15.7

h = 59'

ϕ_{avg} = 7.2%

Swavg = 13.8%

EXPECTED RECOVERY ASSUMING THE LEA FARMS #2
IS REPRESENTATIVE OF THE SURROUNDING RESERVOIR

$$\begin{aligned}
 \text{Recovery, bbl/acre} &= \frac{7758 \text{ h } \cancel{B} (1-S_w) (\text{Recovery Factor})}{B_o} \\
 &= \frac{7758 (59) (.072) (.862) (.23)}{1.65} \\
 &= 3960 \text{ bbl/acre}
 \end{aligned}$$

Lea Farms #2	Cumulative Production	11/86 = 82,515 BO
	Producing Rate	11/86 = 9702 BOPM
	Total Acreage Drained	11/86 = 21 Acres
	Drainage Rate	11/86 = 2.4 Acres/Month

Ashland Federal #1	Cumulative Production	11/86 = 139,187 BO
	Producing Rate	11/86 = 11,073 BOPM
	Total Acreage Drained	11/86 = 35 Acres
	Drainage Rate	11/86 = 2.8 Acres/Month

HUMBLE CITY STRAWN, SOUTH

