

TERRASCIENCES INC.

Well name: WILEY FEE NO.1

Interval : 11533.0000 to 11664.0000 by 0.5000 feet

Depth Reference Channel: 1 (M. DEPTH)

Curves	Chan #	Cutoff value(s)	Method
Sw	(120)	0.6000	LT
Porosity (6)		0.0300	GT

BEFORE THE
OIL CONSERVATION DIVISION
Santa Fe, New Mexico

Case No. 11724 Exhibit No. 14

Submitted by: Hanley Petroleum Inc.
and Yates Petroleum Corporation

Hearing Date: May 15, 1997

TOP INTERVAL	(F)	11533.0000
BASE INTERVAL	(F)	11664.0000
GROSS THICKNESS	(F)	131.5000
NET PAY THK	(F)	82.0000
NET/GROSS RATIO	(F)	0.6236
LOWER Sw CUTOFF		0.6000
PAY ARITH AVG Sw		0.2049
PAY MINIMUM Sw		0.0723
PAY MAXIMUM Sw		0.5639
PAY HC THK	(F)	4.1987
SW (phi-wt)		0.1717
LOWER POROSITY CUTOFF		0.0300
PAY ARITH AVG POROSITY		0.0618
PAY MINIMUM POROSITY		0.0301
PAY MAXIMUM POROSITY		0.1363
PAY POROSITY THK	(F)	5.0693

Net pay depth listing for the interval

Minimum allowable net pay thickness: 0.0000 (Ft)

Depth Interval (Ft)	Thickness	Sw	Porosity
11547.0000-11567.5000	21.0000	0.1645	0.0633
11572.0000-11609.5000	38.0000	0.1265	0.0721
11611.5000-11624.5000	13.5000	0.3374	0.0491
11625.5000-11627.0000	2.0000	0.3328	0.0359
11632.5000-11639.5000	7.5000	0.4430	0.0355

Total interval evaluated : 131.5000 (Ft) (11533.0000 - 11664.0000)
 Total number of pay intervals : 5
 Total net pay thickness : 82.0000 (Ft)
 Mean pay interval thickness : 16.4000 (Ft)
 Thinnest pay interval : 2.0000 (Ft)
 Thickest pay interval : 38.0000 (Ft)
 Average porosity in pay : 0.0618

WILEY FEE NO. 1

Well Name: WILEY FEE NO.1

M-DEPTH	DPHI	RT	SWARC
11533.0			
11534.0			
11535.0			
11536.0			
11537.0		631.88	
11538.0		633.76	
11539.0		874.70	
11540.0		909.52	
11541.0	0.000	705.22	1.000
11542.0	0.0151	131.40	0.8845
11543.0	0.0022	638.34	1.000
11544.0	-0.0065	825.03	1.000
11545.0	-0.0031	777.78	1.000
11546.0	0.0122	330.74	0.6899
11547.0	0.0385	239.55	0.2569
11548.0	0.0452	253.94	0.2125
11549.0	0.0502	285.06	0.1806
11550.0	0.0723	305.64	0.1211
11551.0	0.0840	309.01	0.1037
11552.0	0.1143	311.52	0.0759
11553.0	0.1363	228.53	0.0743
11554.0	0.1193	157.82	0.1021
11555.0	0.0970	202.38	0.1109
11556.0	0.0536	380.56	0.1464
11557.0	0.0389	403.62	0.1958
11558.0	0.0504	295.07	0.1768
11559.0	0.0495	246.80	0.1968
11560.0	0.0452	275.71	0.2039
11561.0	0.0434	246.88	0.2244
11562.0	0.0536	314.05	0.1611
11563.0	0.0579	332.78	0.1449
11564.0	0.0376	398.54	0.2039
11565.0	0.0428	439.60	0.1705
11566.0	0.0562	256.09	0.1701
11567.0	0.0454	248.15	0.2139
11568.0	0.0261	314.39	0.3306
11569.0	0.0188	458.60	0.3800
11570.0	0.0113	714.05	0.5067
11571.0	0.0095	1175.5	0.4697
11572.0	0.0362	1048.3	0.1305
11573.0	0.0405	453.64	0.1774
11574.0	0.0357	433.77	0.2058
11575.0	0.0600	464.01	0.1184
11576.0	0.0900	366.70	0.0888
11577.0	0.0928	263.97	0.1015
11578.0	0.0818	226.44	0.1243

11579.0	0.0927	209.92	0.1139
11580.0	0.1124	191.88	0.0982
11581.0	0.1240	211.82	0.0848
11582.0	0.1202	227.30	0.0844
11583.0	0.1028	219.54	0.1004
11584.0	0.1044	226.56	0.0973
11585.0	0.1035	230.81	0.0973
11586.0	0.0922	242.25	0.1066
11587.0	0.1028	278.50	0.0891
11588.0	0.1010	305.61	0.0866
11589.0	0.0620	341.09	0.1336
11590.0	0.0323	536.59	0.2044
11591.0	0.0531	633.18	0.1145
11592.0	0.0717	310.09	0.1211
11593.0	0.0718	307.12	0.1215
11594.0	0.0629	323.11	0.1352
11595.0	0.0526	446.02	0.1377
11596.0	0.0601	358.58	0.1344
11597.0	0.0597	390.34	0.1296
11598.0	0.0427	487.05	0.1623
11599.0	0.0451	584.74	0.1402
11600.0	0.0465	427.13	0.1591
11601.0	0.0545	486.07	0.1272
11602.0	0.0575	597.57	0.1088
11603.0	0.0575	432.09	0.1279
11604.0	0.0613	358.54	0.1317
11605.0	0.0785	464.29	0.0904
11606.0	0.0756	505.37	0.0900
11607.0	0.0803	223.80	0.1273
11608.0	0.0671	199.68	0.1612
11609.0	0.0527	203.99	0.2031
11610.0	0.0236	222.71	0.4340
11611.0	0.0251	269.69	0.3708
11612.0	0.0548	266.98	0.1707
11613.0	0.0577	183.32	0.1957
11614.0	0.0391	108.46	0.3154
11615.0	0.0442	77.55	0.3927
11616.0	0.0456	66.73	0.4103
11617.0	0.0471	65.26	0.4017
11618.0	0.0452	73.83	0.3935
11619.0	0.0600	73.96	0.2962
11620.0	0.0643	65.44	0.2938
11621.0	0.0431	63.61	0.4446
11622.0	0.0471	70.05	0.3877
11623.0	0.0575	84.15	0.2897
11624.0	0.0411	155.01	0.2986
11625.0	0.0292	145.75	0.4335
11626.0	0.0367	166.33	0.3229

11627.0	0.0365	163.82	0.3271
11628.0	0.0169	118.79	0.8296
11629.0	0.0268	73.89	0.6633
11630.0	0.0196	105.77	0.7580
11631.0	0.0033	142.77	1.000
11632.0	0.0198	93.25	0.7991
11633.0	0.0358	77.09	0.4861
11634.0	0.0344	93.92	0.4583
11635.0	0.0382	98.54	0.4029
11636.0	0.0310	91.48	0.5153
11637.0	0.0323	95.61	0.4837
11638.0	0.0378	107.82	0.3892
11639.0	0.0415	121.00	0.3347
11640.0	0.0258	149.46	0.4843
11641.0	0.0047	137.54	1.000
11642.0	-0.0013	1387.3	1.000
11643.0	-0.0072	2845.0	1.000
11644.0	-0.0098		1.000
11645.0	-0.0068		1.000
11646.0	-0.0119		1.000
11647.0	-0.0075		1.000
11648.0	0.0022		
11649.0	0.0028		
11650.0	-0.0028		1.000
11651.0	-0.0052		1.000
11652.0	-0.0013		1.000
11653.0	-0.0011		1.000
11654.0	0.0024		
11655.0	0.0102		
11656.0	-0.0040		1.000
11657.0	0.0025		
11658.0	0.0020		
11659.0			
11660.0			
11661.0			
11662.0			
11663.0			
11664.0			

TERRASCIENCES INC.

Well name: KLEIN FEE NO.1

Interval : 11550.0010 to 11667.0010 by 0.5000 feet
Depth Reference Channel: 1 (M. DEPTH)

Curves Chan # Cutoff value(s) Method

Sw	(120)	0.6000	LT
Porosity	(6)	0.0300	GT

TOP INTERVAL	(F)	11550.0010
BASE INTERVAL	(F)	11667.0010
GROSS THICKNESS	(F)	117.5000
NET PAY THK	(F)	75.5000
NET/GROSS RATIO	(F)	0.6426
LOWER Sw CUTOFF		0.6000
PAY ARITH AVG Sw		0.2646
PAY MINIMUM Sw		0.0935
PAY MAXIMUM Sw		0.5388
PAY HC THK	(F)	3.2012
SW (phi-wt)		0.2564
LOWER POROSITY CUTOFF		0.0300
PAY ARITH AVG POROSITY		0.0570
PAY MINIMUM POROSITY		0.0302
PAY MAXIMUM POROSITY		0.1047
PAY POROSITY THK	(F)	4.3050

Net pay depth listing for the interval

Minimum allowable net pay thickness: 0.0000 (Ft)

Depth Interval (Ft)	Thickness	Sw	Porosity
11561.0010-11562.0010	1.5000	0.2672	0.0356
11564.0010-11565.5010	2.0000	0.2671	0.0337
11568.0010-11570.0010	2.5000	0.3234	0.0429
11572.5010-11587.0010	15.0000	0.1982	0.0732
11588.0010-11594.0010	6.5000	0.2163	0.0483
11595.0010-11595.0010	0.5000	0.2974	0.0302
11597.0010-11604.5010	8.0000	0.2597	0.0524
11605.5010-11612.5010	7.5000	0.2590	0.0452
11613.5010-11619.5010	6.5000	0.2701	0.0486
11621.0010-11636.0010	15.5000	0.3251	0.0768
11637.0010-11638.0010	1.5000	0.4529	0.0319

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11639.0010-11645.5010 7.0000 0.2926 0.0404

11651.5010-11652.5010 1.5000 0.1088 0.0367

Total interval evaluated : 117.5000 (Ft) (11550.0010 - 11667.0010)
 Total number of pay intervals : 13
 Total net pay thickness : 75.5000 (Ft)
 Mean pay interval thickness : 5.8077 (Ft)
 Thinnest pay interval : 0.5000 (Ft)
 Thickest pay interval : 15.5000 (Ft)
 Average porosity in pay : 0.0570

KLEIN FEE NO. 1

Well Name: KLEIN FEE NO.1

M.DEPTH	DPHI	RT	SWARC
11550.0			
11551.0			
11552.0			
11553.0			
11554.0	0.0434		
11555.0	0.0293		
11556.0	0.0164	162.24	0.7354
11557.0	0.0076	341.83	1.000
11558.0	0.0154	365.22	0.5219
11559.0	0.0282	82.06	0.6013
11560.0	0.0274	143.42	0.4681
11561.0	0.0334	217.49	0.3118
11562.0	0.0358	339.33	0.2329
11563.0	0.0222	223.06	0.4632
11564.0	0.0309	233.63	0.3252
11565.0	0.0365	318.79	0.2357
11566.0	0.0278	303.82	0.3169
11567.0	0.0219	250.77	0.4428
11568.0	0.0331	228.50	0.3069
11569.0	0.0518	103.44	0.2915
11570.0	0.0391	97.71	0.3973
11571.0	0.0154	148.48	0.8183
11572.0	0.0295	186.03	0.3816
11573.0	0.0658	122.85	0.2105
11574.0	0.0851	94.15	0.1860
11575.0	0.0630	38.05	0.2597
11576.0	0.0915	85.32	0.1817
11577.0	0.0956	88.01	0.1712
11578.0	0.0994	80.63	0.1720
11579.0	0.1039	81.41	0.1638
11580.0	0.0827	89.59	0.1961
11581.0	0.0753	79.87	0.2281
11582.0	0.0802	120.99	0.1740
11583.0	0.0653	159.62	0.1861
11584.0	0.0448	230.31	0.2258
11585.0	0.0528	316.44	0.1634
11586.0	0.0556	254.17	0.1732
11587.0	0.0316	211.98	0.3337
11588.0	0.0352	205.59	0.3041
11589.0	0.0451	235.62	0.2217
11590.0	0.0522	259.18	0.1827
11591.0	0.0538	285.14	0.1690
11592.0	0.0547	275.17	0.1692
11593.0	0.0550	229.56	0.1842
11594.0	0.0321	208.42	0.3312
11595.0	0.0302	291.99	0.2974

11596.0	0.0285	233.79	0.3522
11597.0	0.0349	172.95	0.3344
11598.0	0.0523	167.75	0.2266
11599.0	0.0747	144.32	0.1710
11600.0	0.0717	158.70	0.1699
11601.0	0.0556	153.06	0.2231
11602.0	0.0464	147.39	0.2724
11603.0	0.0377	131.23	0.3553
11604.0	0.0444	120.57	0.3147
11605.0	0.0293	173.21	0.3979
11606.0	0.0405	209.45	0.2618
11607.0	0.0405	207.40	0.2631
11608.0	0.0451	210.79	0.2343
11609.0	0.0395	180.00	0.2895
11610.0	0.0443	203.38	0.2429
11611.0	0.0559	162.25	0.2155
11612.0	0.0552	155.22	0.2231
11613.0	0.0294	112.32	0.4924
11614.0	0.0408	92.84	0.3902
11615.0	0.0498	120.02	0.2812
11616.0	0.0437	132.36	0.3051
11617.0	0.0560	163.12	0.2145
11618.0	0.0584	268.30	0.1604
11619.0	0.0518	230.33	0.1951
11620.0	0.0230	201.53	0.4698
11621.0	0.0431	262.37	0.2197
11622.0	0.0812	124.82	0.1691
11623.0	0.0690	19.78	0.4999
11624.0	0.0657	36.73	0.3852
11625.0	0.0768	30.21	0.3634
11626.0	0.0967	27.29	0.3036
11627.0	0.0922	18.66	0.3851
11628.0	0.0792	26.60	0.3755
11629.0	0.0861	32.93	0.3104
11630.0	0.0807	33.20	0.3298
11631.0	0.0892	36.13	0.2861
11632.0	0.0948	44.79	0.2417
11633.0	0.0770	42.29	0.3063
11634.0	0.0670	45.64	0.3388
11635.0	0.0635	52.67	0.3328
11636.0	0.0404	49.63	0.5388
11637.0	0.0315	88.87	0.5164
11638.0	0.0302	142.27	0.4257
11639.0	0.0327	209.50	0.3240
11640.0	0.0343	158.68	0.3549
11641.0	0.0491	184.97	0.2296
11642.0	0.0500	191.67	0.2215
11643.0	0.0411	160.28	0.2947

11644.0	0.0420	156.62	0.2917
11645.0	0.0319	184.25	0.3541
11646.0	0.0282	317.02	0.3053
11647.0	0.0133	560.10	0.4871
11648.0	0.0170	1011.1	0.2836
11649.0	0.0076	1252.6	0.5699
11650.0	0.0110	1345.4	0.3800
11651.0	0.0237	1342.3	0.1765
11652.0	0.0396	1477.7	0.1007
11653.0	0.0250	1962.5	0.1384
11654.0	0.0153		
11655.0	0.0144		
11656.0	0.0069		
11657.0	-0.0011		1.000
11658.0	-0.0098		1.000
11659.0	-0.0044		1.000
11660.0	-0.0052		1.000
11661.0	-0.0117		1.000
11662.0			
11663.0			
11664.0			
11665.0			
11666.0			
11667.0			