

Drilled Plug Analysis Report

Company :		Saga Petroleum Corporation			Field:				
File No. :		03095			Formation:		Bone Spring		
Well :		Pott Fed #3			County :		Eddy County, New Mexico		
Location :									
Sample	Depth	Air	Porosity	Grain	Sw	So	Gas	Fluorescence	Sample Description
Number		Permeability		Density			Units		
	ft	mD	%	g/cc	%	%		%	Description
1	6,144.9	0.017	5.6	2.69	33.4	42.5		95	V dl brn Ss:dkgry vfg wl srt md v calc pyr
2	6,145.9	0.035	6.8	2.68	35.3	33.6		95	V dl brn Ss:dkgry vfg wl srt md v calc pyr
3	6,146.9	0.041	8.1	2.67	37.1	33.7		100	V dl brn Ss:dkgry vfg wl srt md v calc pyr
4	6,147.9	0.049	8.6	2.68	41.8	25.5		100	V dl brn Ss:brn-gry vfg wl srt md calc pyr styl
5	6,148.9	0.087	9.6	2.67	38.9	27.8		95	V dl brn Ss:gry-brn vfg wl srt md calc pyr styl
6	6,149.9	0.064	9.8	2.68	28.5	31.1		95	V dl brn Ss:brn vfg wl srt md pyr sm calc
7	6,150.9	0.089	8.5	2.68	26.4	36.8		100	V dl brn Ss:brn vfg wl srt md lam pyr sm calc
8	6,151.9	0.197	8.1	2.69	44.5	19.1		100	V dl brn Ss:brn vfg wl srt md lam pyr sm calc styl
9	6,152.8	0.048	8.3	2.69	36.0	30.8		100	V dl brn lam Ss:gry-brn vfg wl srt md lam sm pyr sm sh sl dol
10	6,153.9	0.055	8.3	2.68	38.7	33.1		100	V dl brn lam Ss:brn-gry vfg wl srt md lam sm pyr sm sh sl dol
11	6,154.9	0.055	8.9	2.68	37.9	34.6		100	V dl yl-brn lam Ss:brn-gry vfg wl srt md lam sm pyr sm sh sl dol
12	6,155.9	0.005	3.0	2.71	26.2	35.8		100	V dl yl-brn lam Ss:dkgry vfg wl srt md lam pyr v calc styl
13	6,156.9	0.058	8.4	2.68	35.4	31.2		50	V dl yl lam Ss:tn-gry vfg wl srt md lam pyr v calc
14	6,157.9	0.067	8.5	2.68	37.9	32.2		100	V dl yl lam Ss:tn-gry vfg wl srt md lam pyr v calc styl
15	6,158.9	0.054	8.8	2.68	34.5	37.6		100	V dl yl lam Ss:tn-gry vfg wl srt md lam sm sh pyr calc styl
16	6,159.9	0.056	9.2	2.67	38.6	30.8		95	V dl yl lam Ss:tn vfg wl srt md lam sm sh sm pyr dol styl
17	6,160.9	0.022	6.0	2.78	24.9	34.5		80	V dl yl lam Ss:gry-tn vfg wl srt sbmd pyr calc cem
18	6,161.9	0.066	9.4	2.68	35.7	34.0		100	V dl yl lam Ss:tn vfg wl srt md sl lam pyr sm sh dol
19	6,162.9	0.049	8.4	2.69	38.2	31.3		80	V dl yl lam Ss:tn-gry vfg wl srt md sl lam sm pyr sl dol styl
20	6,163.9	0.016	2.9	2.69	12.9	48.5		40	V dl yl lam Ss:gry-tn vfg wl srt md sm lam sm pyr v calc styl

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Sample Number	Depth	Air Permeability	Porosity	Grain Density	Sw	So	Gas Units	Fluorescence	Sample Description
	ft	mD	%	g/cc	%	%		%	Description
21	6,164.9	0.062	8.4	2.68	42.7	34.0		95	V dl yl-brn lam Ss:gry-tn vfg wl srt md sm pyr sm sh dol
22	6,165.9	0.029	8.1	2.68	45.9	33.7		100	V dl yl-brn lam Ss:gry-tn vfg wl srt md sm pyr sl sh sl dol styl
23	6,166.9	0.032	8.3	2.70	38.5	33.6		100	V dl yl-brn lam Ss:tn-gry vfg wl srt md sm pyr sl sh sl dol styl
24	6,167.9	0.025	8.6	2.69	46.4	32.5		100	V dl yl-brn lam Ss:gry-brn vfg wl srt md styl sm dol sm pyr sl sh
25	6,168.9	0.014	5.7	2.69	32.8	35.2		100	V dl brn Ss:dkgry vfg wl srt md sm dolc sm pyr sm sh
26	6,169.9	0.075	9.6	2.68	38.3	30.5		90	V dl brn Ss:dkgry vfg wl srt md sm sh sm pyr sm dol
27	6,170.9	0.080	10.0	2.65	40.0	27.1		100	V dl yl lam Ss:tn vfg wl srt sbmd sm sh sm pyr sm dol
28	6,171.9	0.099	11.3	2.69	38.7	19.2		100	V dl yl lam Ss:tn vfg wl srt sbmd sm sh sm pyr sm dol sl calc
29	6,172.9	0.084	9.7	2.67	38.2	23.0		100	V dl yl lam Ss:tn vfg wl srt sbmd sm pyr sl sh sm dol styl
30	6,173.9	0.009	4.1	2.75	18.3	28.2		80	V dl yl lam Ss:dkgry vfg wl srt sbmd pyr calc styl
31	6,174.9	0.056	7.1	2.67	33.4	37.3		95	V dl brn Ss:tn vfg wl srt sbmd calc pyr styl
32	6,175.9	0.071	8.4	2.66	38.3	29.9		95	V dl brn Ss:tn vfg wl srt sbmd calc pyr sm sh styl
33	6,176.9	0.083	10.5	2.70	31.9	27.5		100	V dl brn Ss:tn vfg wl srt sbmd sm pyr sm dol styl sl sh
34	6,177.9	0.026	7.6	2.67	47.3	27.6		100	V dl brn Ss:tn-blk vfg wl srt sbmd shly pyr sl dol
35	6,178.9	0.026	4.2	2.66	26.3	45.9		95	Stst:dkbrn vfg wl srt md pyr dol sh sm snd
36	6,179.9	0.011	4.5	2.67	25.0	42.3		20	Stst:dkbrn vfg wl srt md pyr dol sm sh styl sm snd
37	6,180.9	0.018	5.4	2.66	36.0	42.5		70	Stst:dkbrn vfg wl srt md pyr dol sm sh sm snd styl
38	6,181.9	tbfa	3.4	2.57	17.0	43.3		20	V dl brn Sh:blk pyr
39	6,182.9	0.058	7.6	2.68	34.3	35.6		60	V dl brn Ss:tn vfg wl srt md pyr sm sh sm dol styl
40	6,183.9	0.037	8.8	2.68	33.6	31.6		90	V dl brn Ss:dktn vfg wl srt md pyr sm dol sm sh styl

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Location :										
Sample Number	Depth	Air Permeability	Porosity	Grain Density	Sw	So	Gas Units	Fluorescence	Sample Description	
	ft	mD	%	g/cc	%	%		%	Description	
41	6,184.8	0.041	7.9	2.65	35.2	36.4		95	V dl brn lam	Ss:tn vfg wl srt md pyr dol sm sh
42	6,185.9	0.013	5.5	2.67	36.4	38.5		10	V dl brn	Slst:dkbrn pyr sm sh dol sl snd styl
43	6,186.9	0.007	5.5	2.64	33.9	39.2		90	V dl brn	Slst:dkbrn pyr sm dol sm sh sm snd
44	6,187.9	0.009	5.3	2.66	36.8	39.7		95	V dl brn	Slst:dkbrn sm pyr sm dol sm snd styl
45	6,188.8	0.007	3.9	2.65	28.4	37.6		100	V dl brn	Slst:dkbrn pyr sm dol sm sh lam
46	6,189.9	0.025	7.0	2.64	34.2	41.5		95	V dl brn	Ss:brn vfg wl srt md pyr sm sh sm dol styl
47	6,190.9	0.009	4.6	2.65	32.3	42.1		90	V dl brn	Slst:dkbrn lam pyr sm sh sm dol sm snd styl
48	6,191.9	0.039	7.9	2.68	45.4	26.2		100	V dl yl-brn lam	Ss:tn vfg wl srt md pyr dol styl sm sh
49	6,192.9	0.037	7.8	2.67	45.2	29.3		100	V dl yl-brn lam	Ss:tn vfg wl srt md pyr sm dol styl sm sh
50	6,193.7	0.029	7.7	2.65	46.7	33.6		100	V dl yl-brn lam	Ss:tn vfg wl srt md pyr sm dol sm sh styl
51	6,194.9	0.023	7.3	2.66	45.5	28.4		50	V dl brn lam	Ss:tn vfg wl srt md pyr dol sm sh styl
52	6,195.9	0.002	6.0	2.67	43.7	31.6		95	V dl brn lam	Sl/Ss:tn-brn lam vfg wl srt md pyr styl sm sh
53	6,196.9	0.003	5.9	2.67	50.3	23.8		60	V dl brn lam	Sl/Ss:tn-brn lam vfg wl srt md pyr dol styl sm sh
54	6,197.9	0.003	1.2	2.67	90.0	11.2		80	V dl brn lam	Ss:dkbrn vfg wl srt sbrnd pyr calc cem sm slit styl
55	6,198.9	0.025	7.6	2.67	43.6	29.5		95	V dl brn lam	Ss:tn vfg wl srt md pyr dol styl sm sh
56	6,199.9	0.018	7.3	2.65	38.4	35.4		100	V dl brn lam	Slst:dkbrn snd pyr dol sm sh styl
57	6,200.9	0.085	8.5	2.70	36.3	26.5		100		Sl/Ss:tn-brn vfg wl srt md pyr dol sm sh styl
58	6,201.9	0.211	3.1	2.63	49.5	32.2		40	V dl brn lam	Sh:dkbrn sm snd pyr lam
59	6,202.9	0.003	6.4	2.64	41.8	33.8		70	V dl brn lam	Snd/Slst:dkbrn pyr sm sh styl sm dol
60	6,203.9	0.157	9.9	2.63	57.9	22.9		100	V dl brn lam	Ss:tn vfg wl srt md sm slit sm sh pyr dol styl

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Well :		Pott Fed #3				County :		Eddy County, New Mexico			
Location :											
Sample Number	Depth	Air Permeability	Porosity	Grain Density	Sw	So	Gas	Fluorescence	Sample Description		
									mD	%	g/cc
61	6,204.8	0.105	11.3	2.67	52.5	17.9		100	V dl brn lam	Ss:lgry-bn vfg wl srt mnd dol sm pyr sl sh styl	
62	6,205.9	0.116	9.9	2.66	56.7	20.3		100	V dl brn lam	Ss:tn-brn vfgwl srt sbmnd sm sh pyr sm dol	
63	6,206.3	0.143	9.6	2.66	47.0	22.0		100	V dl brn lam	Ss:tn vfg wl srt mnd sm pyr sm dol sm sh styl	
64	6,207.9	0.013	6.0	2.65	46.1	44.2		40	V dl brn lam	Sh/Ss:tn-brn vfg wl srt mnd pyr sm dol styl	
65	6,208.7	0.036	6.5	2.65	43.6	30.1		50	V dl brn lam	Sh/Ss:tn-brn vfg wl srt mnd pyr sm dol styl sm sh	
66	6,209.9	0.010	2.9	2.69	27.3	43.6		50	V dl brn lam	Ss:brn vfg wl srt mnd pyr calc sm silt styl	
67	6,210.9	0.589(frac)	2.9	2.59	16.3	58.9		20	V dl brn lam	Sh:dkbrn pyr lam	
68	6,211.9	0.125	9.9	2.66	57.3	18.7		60	V dl brn lam	Ss:tn vfg wl srt mnd pyr sm dol sm sh styl	
69	6,212.9	0.137	11.2	2.68	57.8	16.7		100	V dl brn lam	Ss:tn vfg wl srt mnd pyr sm dol sm sh styl	
70	6,213.9	0.126	10.2	2.67	61.5	14.2		100	V dl brn lam	Ss:tn vfg wl srt mnd pyr sm dol sm sh styl	
71	6,214.9	0.109	12.1	2.70	57.4	13.8		100	V dl y-l-brn	Ss:tn vfg wl srt mnd pyr sm dol sm sh styl	
72	6,215.9	0.006	1.5	2.66	26.5	61.9		30	V dl y-l-brn	Ss:brn vfg wl srt sbmnd pyr calc oam styl	
73	6,216.3	0.135	9.8	2.66	61.5	14.3		85	V dl y-l-brn	Ss:tn vfg wl srt mnd pyr sm dol sm sh styl	
74	6,217.9	0.131	11.2	2.66	78.2	11.2		100	V dl y-l-brn	Ss:tn vfg wl srt mnd pyr sm dol sm sh styl	
75	6,218.9	0.098	9.3	2.65	50.6	25.2		90	V dl y-l-brn	Sh/Ss:tn-bik vfg wl srt mnd pyr sm dol sm sh styl	
76	6,219.9	0.091	10.1	2.66	50.9	26.9		100	V dl y-l-brn	Ss:tn vfg wl srt mnd pyr sm dol sm silt styl	
77	6,220.9	0.128	10.4	2.67	60.5	12.5		100	V dl y-l-brn	Ss:tn vfg wl srt mnd pyr dol sm silt styl	
78	6,221.9	0.081	8.4	2.67	48.4	28.3		100	V dl y-l-brn	Ss:tn vfg wl srt sbmnd pyr dol sm sh styl lam	
79	6,222.9	0.123	9.0	2.70	52.6	19.9		100	V dl y-l-brn lam	Ss:tn vfg wl srt sbmnd pyr dol lam sm sh styl	
80	6,223.9	0.026	6.4	2.69	41.4	25.0		100	V dl y-l-brn lam		

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Well :	Pott Fed #3	County :	Eddy County, New Mexico
Location :			

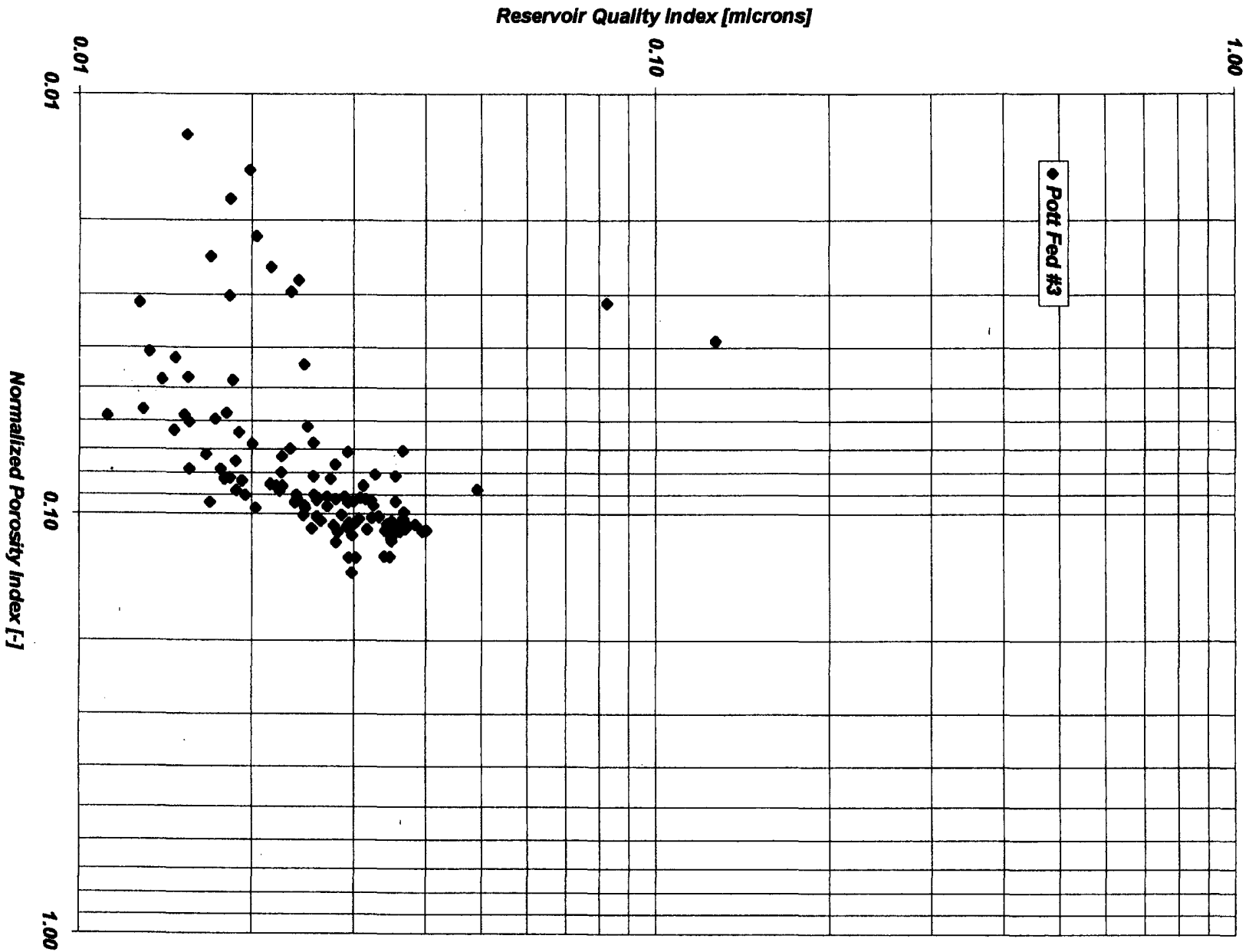
Sample Number	Depth	Air Permeability	Porosity	Grain Density	Sw	So	Gas Units	Fluorescence	Sample Description
	ft	mD	%	g/cc	%	%		%	Description
81	6,224.8	0.016	2.7	2.69	30.0	42.5		30	V dl bm Ss:tn-gry vfg wl srt md calc pyr lam styl
82	6,225.9	0.075	8.6	2.69	45.3	30.0		95	V dl bm Ss:tn vfg wl srt md dol pyr sm sh styl
83	6,226.3	0.089	6.6	2.67	57.9	24.0		100	V dl bm Ss:tn-blk vfg wl srt md shly dol pyr styl
84	6,227.9	0.078	8.6	2.67	46.5	26.2		100	V dl bm Ss:tn-blk vfg wl srt md shly dol pyr styl
85	6,228.9	0.006	1.8	2.69	24.3	55.2		60	V dl bm Ss:dkbm vfg wl srt md calc pyr styl
86	6,229.9	0.019	6.7	2.70	44.5	37.4		100	V dl bm Ss:tn-bm vfg wl srt md pyr shly dol styl
87	6,230.9	0.081	8.4	2.68	58.2	25.0		100	V dl bm Ss:tn-gry vfg wl srt md pyr shly dol styl
88	6,231.8	0.058	8.5	2.68	49.6	28.5		100	V dl bm Ss:gry-tn vfg wl srt md sm sh sm pyr sm dol styl
89	6,232.9	0.076	9.2	2.66	48.8	30.2		60	V dl bm lam Ss:gry-tn vfg wl srt md pyr sl dol sm sh styl
90	6,233.9	0.114	9.6	2.68	56.3	18.5		100	V dl bm Ss:tn vfg wl srt md dol pyr sm sh styl
91	6,234.9	0.136	9.7	2.68	55.4	18.0		100	V dl bm Ss:tn vfg wl srt md sm dol sm sh pyr styl
92	6,235.9	0.117	9.5	2.68	51.3	18.2		100	V dl bm Ss:tn vfg wl srt md dol sm pyr sm sh styl
93	6,236.9	0.009	2.1	2.68	38.8	36.8		50	V dl bm Ss:dkbm vfg wl srt md calc pyr styl
94	6,237.9	0.131	9.9	2.68	54.9	18.2		40	V dl bm Ss:tn vfg wl srt md dol pyr sl sh styl
95	6,238.6	0.135	9.8	2.68	60.0	11.2		100	V dl bm Ss:tn vfg wl srt md dol sm pyr sl sh styl
96	6,239.9	0.100	9.8	2.68	53.6	21.4		100	V dl bm Ss:tn vfg wl srt md sm dol sm pyr sl sh styl
97	6,240.9	0.078	7.9	2.67	49.6	32.3		100	V dl bm Ss:bm vfg wl srt md pyr sm dol sm sh styl
98	6,241.9	0.016	4.6	2.67	44.0	46.1		100	V dl bm Sstst:dkbm sm snd sm pyr sl sh styl
99	6,242.8	0.611	3.7	2.67	34.5	54.7		100	V dl bm Sstst:dkbm pyr sl snd styl
100	6,243.9	0.161	9.9	2.69	55.8	18.7		95	V dl bm Ss:tn vfg wl srt md dol pyr sm sh styl

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Well :	Pott Fed #3	County :	Eddy County, New Mexico
Location :			

Sample Number	Depth	Air Permeability	Porosity	Grain Density	Sw	So	Gas Units	Fluorescence	Sample Description
	ft	mD	%	g/cc	%	%		%	Description
101	6,244.9	0.128	9.6	2.67	56.0	19.4		100	V dl brn Ss:tn vfg wl srt md dol sm pyr sm sh styl
102	6,245.9	0.093	8.7	2.67	56.5	18.8		100	V dl brn Ss:tn vfg wl srt md pyr sm dol sm sh styl
103	6,246.9	0.126	9.3	2.67	48.6	25.7		100	V dl brn Ss:tn vfg wl srt md sm pyr sm dol sm sh styl
104	6,247.9	0.109	8.6	2.68	48.7	20.2		100	DI yl-brn lam Ss:tn-gry vfg wl srt md sm pyr sm dol sl sh styl
105	6,248.9	0.096	7.5	2.68	52.2	25.9		100	DI yl-brn lam Ss:tn vfg wl srt md lam pyr dol styl
106	6,249.9	0.081	7.5	2.73	47.4	22.0		100	DI yl-brn lam Ss:tn vfg wl srt md pyr dol lam styl
107	6,250.9	0.037	5.8	2.70	49.8	29.0		100	V dl yl-brn lam Ss:tn vfg wl srt md pyr dol lam styl
108	6,251.9	0.012	2.5	2.68	46.5	32.9		85	V dl brn lam Ss:brn vfg wl srt md calc pyr lam styl
109	6,252.9	0.058	6.7	2.69	45.7	30.5		75	V dl brn lam Ss:tn vfg wl srt md dol pyr lam styl
110	6,253.9	0.038	7.4	2.69	57.2	25.8		100	V dl brn lam Ss:tn vfg wl srt md lam pyr sm dol sm sh
111	6,254.9	0.050	7.5	2.68	53.7	27.4		100	V dl brn Ss:tn vfg wl srt md lam pyr sm dol sm sh styl
112	6,255.9	0.007	2.4	2.74	34.6	48.0		65	V dl brn lam Ss:brn vfg wl srt md pyr calc cem styl
113	6,256.2	0.063	9.2	2.71	45.3	25.6		100	V dl brn lam Ss:tn vfg wl srt md lam pyr dol styl sm sh
114	6,257.9	0.065	8.8	2.68	53.2	25.9		100	V dl brn lam Ss:tn vfg wl srt md pyr dol sm sh styl
115	6,258.6	0.088	9.5	2.67	50.6	28.1		100	V dl brn lam Ss:tn vfg wl srt md pyr dol sm sh styl
116	6,259.9	0.103	9.2	2.67	55.8	25.3		100	V dl brn lam Ss:tn vfg wl srt md pyr dol sm sh styl
117	6,260.9	0.084	9.5	2.67	55.7	21.4		100	V dl brn Ss:tn vfg wl srt md pyr dol sm sh styl
118	6,261.9	0.089	9.3	2.67	62.4	16.2		100	V dl brn Ss:tn vfg wl srt md dol sm pyr styl
119	6,262.4	0.042	6.3	2.67	40.7	37.2		40	V dl brn Ss:tn vfg wl srt md dol pyr sl sh styl

Reservoir Quality Index versus Normalized Porosity



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Company : Saga Petroleum Corporation
File No. : 03095
Well : Pott Fed. #3
Location :

Field:
Formation: Bone Spring
County : Eddy County, New Mexico

Sample Number	Depth ft	Low Temp Data			High Temp Data			Original Data		
		Air	Porosity	Grain	Air	Porosity	Grain	Air	Porosity	Grain
		Permeability mD	%	Density g/cc	Permeability mD	%	Density g/cc	Permeability mD	%	Density g/cc
1	6,151.8	0.066	7.0	2.68	0.071	7.3	2.68	0.197	8.1	2.69
2	6,170.7	0.059	7.8	2.67	0.063	8.2	2.68	0.080	10.0	2.65
3	6,174.8	0.038	7.5	2.67	0.035	7.5	2.67	0.056	7.1	2.67
4	6,201.8	0.009	0.6	2.59	0.009	1.2	2.60	0.211	3.1	2.63
5	6,214.7	0.067	11.8	2.71	0.064	11.9	2.70	0.109	12.1	2.70
6	6,235.7	0.013	8.8	2.68	0.006	9.0	2.68	0.117	9.5	2.68
7	6,254.8	0.003	6.7	2.69	0.003	7.1	2.69	0.050	7.5	2.68

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Well :		Pott Fed. #3					County :		Eddy County, New Mexico	
Location :										
Low Temp Data				High Temp Data			Original Data			
Sample	Depth	Air	Porosity	Grain	Air	Porosity	Grain	Air	Porosity	Grain
Number		Permeability		Density	Permeability		Density	Permeability		Density
	ft	mD	%	g/cc	mD	%	g/cc	mD	%	g/cc
1	6,151.8	0.066	7.0	2.68	0.071	7.3	2.68	0.197	8.1	2.69
2	6,170.7	0.059	7.8	2.67	0.063	8.2	2.68	0.080	10.0	2.65
3	6,174.8	0.038	7.5	2.67	0.035	7.5	2.67	0.056	7.1	2.67
4	6,201.8	0.009	0.6	2.59	0.009	1.2	2.60	0.211	3.1	2.63
5	6,214.7	0.067	11.8	2.71	0.064	11.9	2.70	0.109	12.1	2.70
6	6,235.7	0.013	8.8	2.68	0.006	9.0	2.68	0.117	9.5	2.68
7	6,254.8	0.003	6.7	2.69	0.003	7.1	2.69	0.050	7.5	2.68