

ROTARY SIDEWALL CORE ANALYSIS

34095

CLAYTON WILLIAMS ENERGY, INC.
ROCKY ARROYO FEDERAL # 1
EDDY COUNTY, NEW MEXICO

A.P.I. NUMBER : 30-015-~~84797~~
FIELD : Rocky Arroyo Morrow
LOCATION : 990' FNL, 660' FEL,
Section 8, T-22-S, R-22-E

FILE NO. : 050614-1
DATE : June 15, 2005
ANALYSTS : WH, SB, PK

DEAN STARK EXTRACTION

SAMPLE NO.	DEPTH ft	GRAIN DENSITY	POROSITY %	PERM mD	SATURATIONS Sw	So	GAS UNITS	FLUORESCENCE %	LITHOLOGY
1	1,794.0	2.72	0.8	0.016	84.7	6.5	18	10	Brt yl-dl yl Ls tn-brn mott dns ssly ssdy tr ppp-sml vug foss
2	1,808.5	2.75	4.3	0.010	68.0	0.0	9	0	Mf Ss brn-gy lam vf-fgr sbrnd-sbang mod slty calc tr pyr
3	1,822.0	2.63	3.1	tbfa	72.4	0.0	183	0	Mf Ss tn-brn lam vf-fgr rnd-sbang slty calc tr C tr pyr s/p
4	1,834.0	2.69	6.2	0.024	55.5	0.0	13	0	Ss opaq-tn-gy vf-fgr sbrnd-sbang mod-ssly calc tr pyr
5	1,836.0	2.71	5.4	0.009	57.7	0.0	9	0	Ss opaq-tn-gy lam vf-fgr sbrnd-sbang mod-ssly calc tr pyr
6	1,878.0	2.72	4.2	0.023	64.9	0.0	2	0	Mf lam Ss opaq-tn-gy lam vf-fgr sbrnd-sbang mod-ssly calc tr pyr
7	2,026.0	2.84	2.9	0.006	63.4	0.0	2	0	Mf Dol brn-gy mott ssly tr ppp sc A/I sc foss tr pyr
8	2,059.0	2.80	5.0	0.049	17.2	20.0	734	90	Brt yl-grn-bl Dol brn-dk brn ssly ssdy suc i/p sc ppp tr anhy
9	2,069.0	2.44	3.5	0.229	86.7	0.0	120	0	Ss dk brn-brn vf-fgr rnd-sbang slty scalc sc C pyr
10	2,163.0	2.76	1.8	0.012	57.2	Tr	29	10	Brt yl-dl yl Ss opaq-brn vf-fgr sbrnd-sbang mod-ssly scalc abd A/I pyr
11	2,167.0	2.61	1.0	0.036	92.4	0.0	15	0	Ss opaq-brn vfgr sbrnd-sbang slty sshy tr anhy tr pyr
12	2,268.0	2.70	7.2	0.026	28.6	31.9	18	40	DI yl-gld Ss opaq-tn-gy vf-fgr sbrnd-sbang mod-ssly scalc tr anhy pyr
13	2,275.0	2.84	3.0	0.011	23.1	0.0	135	0	Dol brn ssly ssdy anhyd tr ppp tr pyr
14	2,327.0	2.70	5.9	0.019	51.3	0.0	19	0	Ss opaq-gy-brn mott vf-fgr sbrnd-sbang ssly scalc tr pyr
15	2,332.0	2.71	3.8	0.018	59.3	0.0	14	0	Ss opaq-brn-gy lam vf-fgr sbrnd-sbang ssly scalc tr pyr
16	2,336.0	2.71	6.1	0.026	51.1	0.0	14	0	Ss opaq-brn-gy mott vf-fgr sbrnd-sbang ssly scalc tr pyr
17	2,340.0	2.73	3.1	0.012	60.4	0.0	9	0	Ss opaq-brn-gy mott vf-fgr sbrnd-sbang mod-ssly scalc tr py
18	2,411.5	2.72	4.1	0.013	54.2	Tr	10	Tr	Fnt gld Ss opaq-gy-brn lam vf-fgr sbrnd-sbang ssly scalc tr pyr



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A.P.I. NUMBER : 30-015-34797
FIELD : Rocky Arroyo Morrow
LOCATION : 990' FNL, 660' FEL,
Section 8, T-22-S, R-22-E

FILE NO. : 050614-1
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ANALYSTS : WH, SB, PK

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19	2,416.0	2.81	1.8	0.010	61.5	0.0	4	0	Dol tn-brn ssly sil i/p tr anhy tr pyr
20	2,630.0	2.81	2.9	0.010	65.7	Tr	35	Tr	Fnt gld Dol brn mod-ssly sc anhy sc foss tr pyr stly sc slty lam
21	2,717.0	2.74	3.4	0.017	51.7	0.0	4	0	Ss opaq-tn vf-fgr sbrnd-sbang ssly scalc pyr slty lam
22	2,724.5	2.74	3.4	0.008	51.2	0.0	2	0	Ss opaq-tn vf-fgr sbrnd-sbang ssly scalc tr anhy pyr slty lam
23	2,730.0	2.75	3.2	0.008	54.4	0.0	8	0	Ss opaq-tn vf-fgr sbrnd-sbang ssly scalc tr anhy pyr slty lam
24	3,075.0	2.73	2.4	0.006	59.9	0.0	4	0	Ss opaq-tn vf-fgr sbrnd-sbang ssly scalc tr anhy pyr slty lam
25	3,091.0	2.84	1.0	0.013	32.0	Tr	3	Tr	DI yl-gld Dol tn-brn ssly anhyd tr gyp sc foss
26	3,105.0	2.84	3.4	0.013	45.2	Tr	2	Tr	DI yl-gld Dol tn-brn ssly tr ppp tr anhy-gyp
27	3,132.0	2.83	3.7	0.014	86.2	Tr	1	10	DI yl-gld Dol tn-brn ssly tr ppp sc anhy-gyp incl tr foss
28	3,452.5	2.83	3.1	0.044	34.7	0.0	0	0	Dol tn-brn ssly ssdy tr ppp sc A/I fd frac su XL
29	3,475.0	2.83	2.4	0.011	62.4	0.0	0	0	Dol tn-brn mott ssly anhyd tr ppp foss
30	3,490.0	2.85	16.9	7.787	31.4	0.0	0	0	DI mf Dol brn ssly ssdy suc i/p sc ppp tr gyp
31	3,798.0	2.70	0.7	0.015	96.5	0.0	4	0	Ss brn-gy lam vf-fgr rnd-sbang slty calc tr foss pyr
32	3,856.0	2.69	4.6	0.023	68.0	0.0	51	0	Ss brn-gy lam vf-fgr rnd-sbang mod-ssly scalc tr pyr
33	3,895.0	2.69	5.8	0.014	61.1	0.0	34	0	Ss brn-gy lam vf-fgr rnd-sbang mod-ssly tr pyr
34	3,900.0	2.66	7.7	0.056	34.7	24.2	271	70	Brt yl-grn Ss brn-gy lam vf-fgr rnd-sbang mod-ssly tr pyr
35	3,991.0	2.69	3.5	0.010	70.5	0.0	72	0	Ss brn-gy lam vf-fgr rnd-sbang mod-ssly scalc tr pyr
36	4,055.5	2.69	4.6	0.012	53.7	0.0	26	0	Mf Ss gy-brn lam vf-fgr rnd-sbang sli-vslty tr pyr



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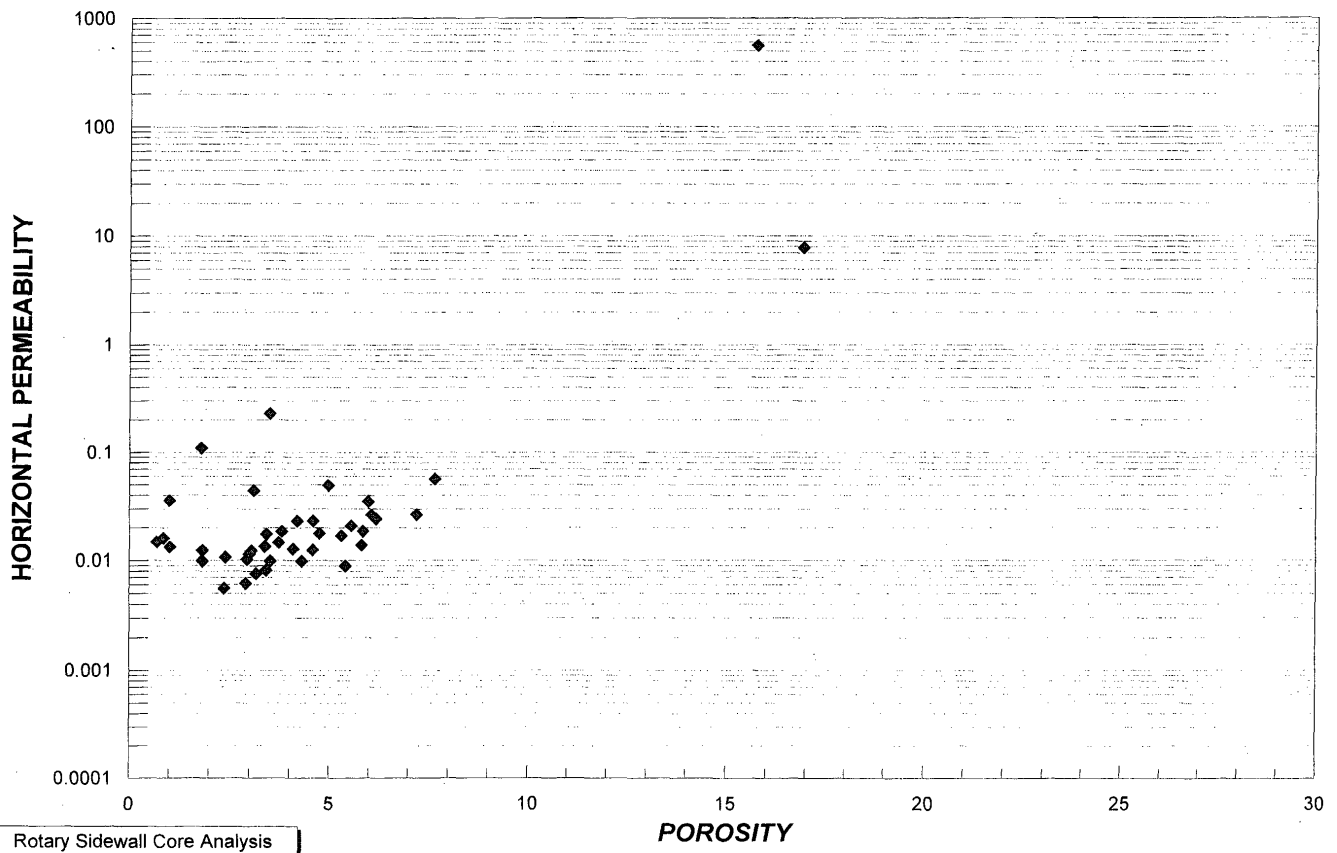
DEAN STARK EXTRACTION

SAMPLE NO.	DEPTH ft	GRAIN DENSITY	POROSITY %	PERM mD	SATURATIONS Sw	So	GAS UNITS	FLUORESCENCE %	LITHOLOGY
37	4,101.0	2.68	6.0	0.035	56.9	0.0	29	0	Ss gy-brn lam vf-fgr rnd-sbang sli-vsilty tr pyr
38	4,105.0	2.69	5.3	0.017	59.6	0.0	17	0 Mf	Ss gy-brn lam vf-fgr rnd-sbang mod-ssilty tr pyr
39	4,110.0	2.69	5.6	0.021	59.5	0.0	1	0	Ss gy-brn lam vf-fgr rnd-sbang mod-ssilty tr pyr
40	4,115.0	2.69	4.7	0.018	64.9	0.0	36	0 Mf	Ss gy-brn lam vf-fgr rnd-sbang mod-ssilty tr pyr
41	4,844.0	2.83	1.8	0.109	44.6	0.0	0	0 Mf	Dol brn ssilty tr ppp-sml vug tr anhy-gyp incl sc foss
42	4,963.0	2.83	15.7	559.211	15.5	18.0	0	80 Brt yl-dl yl	Dol brn ssilty sdy suc i/p sc ppp-vug mod-vcalc



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