

NEW MEXICO SCHOOL OF MINES
STATE BUREAU OF MINES AND MINERAL RESOURCES
SOCORRO, NEW MEXICO

NEW MEXICO WELL LOG DIVISION

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Matador Oil Co., State Well #3

Formation	Bottom	Formation	Bottom
Dark shale and arkose	3390		
Black shale and arkose	3400		
Lime and gray coal	3410		
Dark shale and arkose	3420		
Dark shale, white and gray lime	3430		
Dark shale and gray lime and arkose	3435		
Shale	3510-3520		
Shale and limestone	3535		
Granite wash	3570		
Shale and black lime	3680		
Shale	3685		
Lime	3698		
Lime	3710		
Lime and black	3733		
Granite wash	3850		
Lime, black	3890		
Granite wash	3905		
Granite wash & black lime	3970		
	3980		
Lime	4015		
Granite wash	4023		
Hard black lime	4040		
Black and gray lime	4085		
White lime	4105		
Black lime	4150		
Black lime & blue shale	4180		
Black lime	4240		
Gray lime	4265		
Sandy lime	4290		
Sand	4320		
Sandy lime	4358		
Black lime	4368		
Lime	4396		
Black lime	4472		
Lime	4500		
Lime	4512		
Sand	4525		
Lime, black	4535		
Sand	4543		
Lime, black & G. ?	4553		
Sand, 1 B.W.H.	4565		
Sand and lime	4632		

Log incomplete

L O G

"WOOGE WELLS NO. 1"

MATADOR OIL CORPORATION

250' NE SW SW Sec 6 T 4 N

R 20 E

1 Soil
15 Gypsum
20 Gray Lime, hard
30 Gray Lime & Gypsum
65 Sandy Lime
74 Black Lime. Oil Showing
100 Sandy Lime
105 Brown Lime, hard
110 Gray Lime
115 Slate, Gypsum
120 Gray Lime, Gypsum
130 White Lime, Gypsum
135 Brown Sandy Lime
145 Brown & Black Lime
(considerable oil showing
light green in color
in Brown Sandy Lime
from 130 - 135)
150 Black & Brown Lime
155 Black Lime, hard
165 Gypsum
175 Gypsum & Brown Lime.
Gas show
180 Gypsum & Brown Lime;
also br. 1-1/2 Baler per
hour. Water
185 White Lime and Gypsum
195 Gypsum
200 Red Beds
205 White Lime & Gypsum
210 Gypsum. Hole half full
of water.
215 Red Beds
225 Blue Shale
235 Black Lime, Gypsum,
Show Oil
242 White Gypsum
270 Black Lime, hard

295 Gypsum
300 Black Lime. Oil Showing
305 Blue Shale
315 Red Beds
340 Gypsum
345 Black Lime, hard
350 Blue Shale
355 Gypsum
365 Gray Lime. Show Oil.
395 Hard White Sand. Water.
400 Soft Yellow Sand
415 Sandy Lime and Gypsum
(Water left Hole)
420 Yellow Sand
430 Water Sand. 435 Show Oil
& Gas
435 Blue Shale
445 Lime & Yellow Sand. Show
Oil & Gas.
455 Yellow Sand
456 Gypsum
460 Yellow Sand
470 Gray Sand
483 Sandy Lime
496 White Sand
510 Black Lime V.H.
515 Gray Lime
525 Black Lime V. H.
535 Gray Lime
543 Gray Sandy Lime
553 Gray Sandy Lime
565 Gray Sand
568 Gray Sand, Hard line
568 Set 1 1/2" casing at
575 - 3" 568 to
675 Gray Sand
700 Black Gray Sand
830 Gray Sand

LOG "ROOSE WELLS NO. 1" - Continued

872	Sandy Lime	1690	Red Shale
905	Sandy Shale	1695	Red Shale and Salt
910	Blue Shale	1693	Red Shale
933	Gypsum & Red Beds	1696	Gray Lime
943	Gypsum, Red Mud & Salt (first Salt)	1700	Red Shale, Salt & Gypsum
970	Sand & Red Beds	1727	Red Shale
995	Gypsum	1738	Red Shale and Gypsum
1005	Pink Sand (1005 to 1013 Pink Sand, Brown Shale Gas Pocket blew water over crown block for 5 minutes, reduced hole to 12-1/2 at 1028)	1780	Red Shale
1025	Salt	2006	Red Shale & Salt
1028	Salt	2016	Shale to
1038	Gypsum	2032	Brown Line
1052	Anhydrite	2040	Blue Sandy Shale
1073	Salt & Gypsum	2050	Shale and Gypsum
1082	Red Beds & Gypsum	2060	Red Shale, Salt & Gypsum
1096	Red Beds	2070	Red Shale & Salt
1110	Hard Dark Brown Line Set 10" casing, pulled 15-1/2"	2080	Red and Blue Shale
1124	Black Lime, hard	2129	Salt
1135	White Sand	2135	Brown Line (1000' Water in Hole)
1147	Pink Shale	2143	Brown Line
1155	Salt Gypsum	2165	Brown Line
1165	Red Beds	2176	Salt (Last Salt)
1196	Red Shale & Salt	2184	Gravel (Granitic Wash ?)
1205	Gray Sandy Lime	2215	Red Sand (Set 8-1/4" casing at 2214)
1227	Red Sand, Salt & Gypsum	2293	Red Sand
1235	Salt and Gypsum	2243	Granitic Wash ?
1240	Red Shale, Gypsum & Salt	2315	Red and Gray Sand
1282	Red Shale	2347	Red and Blue Sandy Shale
1307	Red Shale and Salt	2360	Red Sandy Shale
1372	Red Shale	2370	Red Sandy Lime, hard and cherty
1402	Red Shale, Salt & Gypsum	2384	Red Sandy Lime
1445	Red Shale	2428	Red Sandy Shale
1450	Red Shale and Salt	2435	Red Shale
1450	Red and Blue Shale	2454	Red Sandy Shale
1542	Gray Lime	2480	Gray Sandy Lime
1565	Red and Blue Shale	2551	Red Sand
		2544	Red Shale
		2586	Red Sand
		2596	Pink Gray Sand
		2600	Red Sand

LOG "WOODS HILL NO. 1" - Continued

2633 Red Shale	3125 Red Shale
2642 Red Sandy Shale	3135 Gray and Red Lime
2643 Red Sand	3147 Red Lime and Shale
2670 Red Sandy Shale	3162 Lime and Shale
2679 Red Sand	3172 Red Shale
2683 Gray Sand, STRONG SHOWING OIL AND GAS	3190 Granitic Wash - 3190 to 3193 Brown Sand 26" thick which would have made a 25 W.H. Well. Oil was 57 W.H. Well.
2695 Brown Sandy Limy Shale	3196 Sandy Shale
2710 Brown Sandy Shale	3206 Red Shale
2742 Brown Sandy Shale	3230 Sandy Shale
2765 Dark Chocolate Sandy Limy Shale	3242 Sandy Shale
2765 Chocolate Colored Sandy Shale	3275 Brown Sandy Shale
2805 Brown Sand	3280 Sandy Lime
2812 Brown Shale	3285 Lime and Shale
2825 Brown Sandy Shale	3293 Granitic Wash. 3296 got the first Pennsylvanian fossils in a gray lime. Very hard.
2845 Brown Shale	3301 Gray Lime
2860 Lime and Shale	3310 Sandy Lime, hard
2865 Brown Shale	3313 Brown Shale and Lime
2865 Brown Lime and Shale	3330 Sandy Shale
2870 Brown Shale and Lime	3336 Blue Lime (Strong Gas Flow)
2885 Brown Sandy Shale	3342 Blue Lime
2890 Brown Shale	3346 Blue Sandy Lime
2905 Brown Lime	3358 Blue Shale
2917 Brown Shale	3364 Blue Shale
2935 Hard Dark Brown Lime & Shale	3367 Blue Shale
2944 Brown Lime, hard	3390 Gray Lime, hard
2945 Brown Lime & Shale, Mixed	3395 Blue Shale
2975 Brown Shale	3405 Red Sandy Shale
2980 Hard Brown Shale	3490 Red Sandy Shale
2990 Mixed Brown Lime and Shale	3493 Gray Lime
2995 Mixed Brown Lime and Shale	3495 Red Sandy Shale
3001 Mixed Brown Lime and Shale (Depth June 18, 1930. Major Companies paid their bottom hole money)	3400 Red Sandy Shale
3010 Red Shale	3412 Red Sandy Shale
3013 Red Shale	3417 Red Sandy Shale
3032 Red Shale	3425 Gray Lime and Shale
3037 Gray Shale	3427 Brown Shale (caving)
3047 Red Shale	
3050 Red Shale	
3056 Brown Shale	

LOG TEMPS WELL NO. 1" - Continued

3442 Brown Sand, hard and heavy
 3446 Brown Sand, hard and heavy
 3456 Brown Sand, hard and heavy
 3478 Granitic Wash
 3506 Red Shale (caving)
 3520 Brown Line and Shale
 3530 Brown Line and Shale
 3550 Brown Line and Shale
 3570 Brown Line and Shale
 3596 Blue Shale (caving)
 3621 Shale and Line Shells
 3649 Shale, Red and hard
 3675 Gray Line
 3705 Gray Line
 3710 Black Shale - hole caving
 3740 Black Shale and Line Shells
 3762 Black Line
 3762 Black Line
 3783 Black Line
 3798 Black Line
 3813 Black Line
 3823 Black Shale
 3850 Black Shale
 3865 Granitic Wash
 3888 Black Line
 3895 Granitic Wash & Line.
 Fishing job.
 3905 Granitic Wash & Black Line
 3910 Black Line
 3930 Granitic Wash & Black Line
 3950 Granitic Wash
 3970 Granitic Wash & Black Line
 3980 Granitic Wash
 3998 Black Line, Very hard.
 4015 Black Line
 4023 Black Line
 4040 Black Line, hard
 4063 Black Line
 4085 Black & Gray Line, very hard
 4105 Black Line
 4130 Black Line, very hard

4137 Black Hard Line
 4150 Black Line, hard
 4180 Black Line
 4199 Black Line
 4220 Black Line
 4265 Gray Line
 4320 Gray Sand, Oil Showing,
 strong with Gas.
 4354 Gray Sandy Line
 4388 Black Line
 4420 Black Line, Broken & Sandy
 4472 Black Line
 4512 Gray Line
 4525 Gray Line
 4595 Black Line, Oil Showing
 increased and Gas got stronger
 4565 White Sand
 4627 White Sand
 4662 White Sand, still making Gas

(Gas Showings all through
 the Granitic Wash and
 Black Lines and Shales
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