

KEITH E. MCKAY
CONSULTING GEOLOGIST
2500 E. McGaffey
Roswell, NM 88201
505-623-6828
October 24, 1993

For: United Drilg.
P. O. Box 2488
Roswell, NM 88202

S A M P L E A N A L Y S I S									
United #1 Jacci St. G.L. 3912'									
SanAndresFormation									
	%	%	%	FLUOR.3STAIN3 CUT POROSITY					
DEPTH	3DOLOMITE	3SHALE	3OTHER	3P3F3G3P3F3G3P3F3G3	%	3DESCRIPTION			
100-10	310 tan-brn	320 g-bl	370 w-cl	3 3 3 3 3 3 3 3 3 3	3				
10-20	370 Micro-Fxyl	310 tr.b	320 "	3 3 3 3 3 3 3 3 3 3	3				
20-30	370 same	310 "	320 "	3 3 3 3 3 3 3 3 3 3	3				
30-40	360 "	310 "	320 "	3 3 3 3 3 3 3 3 3 3	3				
40-50	340 "	310 "	350 "	3 3 3 3 3 3 3 3 3 3	3				
50-60	340 " foss/tite	310 "	350 "	3x3 3 3x3 3 3 3 3 3 3	3				
60-70	360 "	310 "	330 "	3x3 3 3x3 3 3 3 3 3 3	3				
70-80	370 "	310 "	320 "	3 3 3 3 3 3 3 3 3 3	3	Note: UV Box			
80-90	360 "	310 "	330 "	3 3 3 3 3 3 3 3 3 3	3	stopped work			
90-2200	360 "	310 "	330 "	3 3 3 3 3 3 3 3 3 3	3	problem w/el			
200-10	370 "	310 "	320 "	3 3 3 3 3 3 3 3 3 3	3				
10-20	340 "	310 "	350 "	3 3 3 3 3 3 3 3 3 3	3				
20-30	320 "	310 "	370 "	3 3 3 3 3 3 3 3 3 3	3				
30-40	320 "	310 "	370 "	3 3 3 3 3 3 3 3 3 3	3				
40-50	320 "	310 "	370 "	3 3 3 3 3 3 3 3 3 3	3				
50-60	380 "	3tr.	320 "	3 3 3 3x3 3 3 3 3 3 3P	3	3T/F1 sli. ra			
60-70	390 "	3tr.	310 "	3 3 3 3x3 3 3 3 3 3 3P	3	3F-3vuggy, foss			
70-80	390 "	3tr.	310 "	3 3 3 3 3x3 3 3 3 3 3F	3	" rainbow &			
80-90	390 "	3tr.	310 "	3 3 3 3 3x3 3 3 3 3 3F	3	" rainbow &			
90-2300	390 " vugs &	3tr.	310 "	3 3 3 3 3x3 3 3 3 3 3F	3	" G interxyl			
2300-10	390 " interxyl	3tr.	310 "	3 3 3 3 3x3 3 3 3 3 3F	3	" G interxyl			
10-20	370 " porosity	310 "	320 "	3 3 3 3 3x3 3 3 3 3 3F	3	" G interxyl			
20-30	3No samples	3	3	3 3 3 3 3 3 3 3 3 3	3	3T/F2 2330-40			
30-40	380 "	310"	310 "	3 3 3 3x3 3 3 3 3 3 3F	3	" F interxyl			

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United #1 Jacci St. G.L. 3912'
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DEPTH	% 3DOLOMITE	% 3SHALE	% 3OTHER	FLUOR.3STAIN3 CUT POROSITY 3P3F3G3P3F3G3P3F3G3 % 3DESCRIPTION
00-10	310 tan-brn	320 g-bl	370 w-cl	3 3 3 3 3 3 3 3 3 3 3 3
10-20	370 Micro-Fxyl	310 tr.b	320 "	3 3 3 3 3 3 3 3 3 3 3 3
20-30	370 same	310 "	320 "	3 3 3 3 3 3 3 3 3 3 3 3
30-40	360 "	310 "	320 "	3 3 3 3 3 3 3 3 3 3 3 3
40-50	340 "	310 "	350 "	3 3 3 3 3 3 3 3 3 3 3 3
50-60	340 " foss/tite	310 "	350 "	3x3 3 3x3 3 3 3 3 3 3 3 3
60-70	360 "	310 "	330 "	3x3 3 3x3 3 3 3 3 3 3 3 3
70-80	370 "	310 "	320 "	3 3 3 3 3 3 3 3 3 3 3 3 Note: UV Box
80-90	360 "	310 "	330 "	3 3 3 3 3 3 3 3 3 3 3 3 stopped work
90-2200	360 "	310 "	330 "	3 3 3 3 3 3 3 3 3 3 3 3 problem w/el
200-10	370 "	310 "	320 "	3 3 3 3 3 3 3 3 3 3 3 3
10-20	340 "	310 "	350 "	3 3 3 3 3 3 3 3 3 3 3 3
20-30	320 "	310 "	370 "	3 3 3 3 3 3 3 3 3 3 3 3
30-40	320 "	310 "	370 "	3 3 3 3 3 3 3 3 3 3 3 3
40-50	320 "	310 "	370 "	3 3 3 3 3 3 3 3 3 3 3 3
50-60	380 "	3tr.	320 "	3 3 3 3x3 3 3 3 3 3F 3T/P1 sli. ra
60-70	390 "	3tr.	310 "	3 3 3 3x3 3 3 3 3 3F 3P-F3vuggy, foss
70-80	390 "	3tr.	310 "	3 3 3 3 3x3 3 3 3 3F 3 " rainbow &
80-90	390 "	3tr.	310 "	3 3 3 3 3x3 3 3 3 3F 3 " rainbow &
90-2300	390 " vugs &	3tr.	310 "	3 3 3 3 3x3 3 3 3 3F 3 " G interxyl
2300-10	390 " interxyl	3tr.	310 "	3 3 3 3 3x3 3 3 3 3F-G3 " G interxyl
10-20	370 " porosity	310 "	320 "	3 3 3 3 3x3 3 3 3 3F-G3 " G interxyl
20-30	3No samples	3	3	3 3 3 3 3 3 3 3 3 3 3 3 3T/P2 2330-40
30-40	380 "	310 "	310 "	3 3 3 3x3 3 3 3 3 3F 3 " F interxyl

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100-10	310 tan-brn	320 g-bl370 w-cl	3 3 3 3 3 3 3 3 3 3	3	
10-20	370 Micro-Fxyln	310 tr.b320 "	3 3 3 3 3 3 3 3 3 3	3	
20-30	370 same	310 " 320 "	3 3 3 3 3 3 3 3 3 3	3	
30-40	360 "	310 " 320 "	3 3 3 3 3 3 3 3 3 3	3	
40-50	340 "	310 " 350 "	3 3 3 3 3 3 3 3 3 3	3	
50-60	340 " foss/tite	310 " 350 "	3x3 3 3x3 3 3 3 3 3 3	3	
60-70	360 "	310 " 330 "	3x3 3 3x3 3 3 3 3 3 3	3	
70-80	370 "	310 " 320 "	3 3 3 3 3 3 3 3 3 3	3	Note: UV Box
80-90	360 "	310 " 330 "	3 3 3 3 3 3 3 3 3 3	3	stopped work
90-2200	360 "	310 " 330 "	3 3 3 3 3 3 3 3 3 3	3	problem w/el
200-10	370 "	310 " 320 "	3 3 3 3 3 3 3 3 3 3	3	
10-20	340 "	310 " 350 "	3 3 3 3 3 3 3 3 3 3	3	
20-30	320 "	310 " 370 "	3 3 3 3 3 3 3 3 3 3	3	
30-40	320 "	310 " 370 "	3 3 3 3 3 3 3 3 3 3	3	
40-50	320 "	310 " 370 "	3 3 3 3 3 3 3 3 3 3	3	
50-60	380 "	3tr. 320 "	3 3 3 3x3 3 3 3 3 3 3	3F	3T/P1 sli. ra
60-70	390 "	3tr. 310 "	3 3 3 3x3 3 3 3 3 3 3	3F	3F3vuggy, foss
70-80	390 "	3tr. 310 "	3 3 3 3 3x3 3 3 3 3 3	3F	3 " rainbow &
80-90	390 "	3tr. 310 "	3 3 3 3 3x3 3 3 3 3 3	3F	3 " rainbow &
90-2300	390 " vugs &	3tr. 310 "	3 3 3 3 3x3 3 3 3 3 3	3F	3 " G interxyl
2300-10	390 " interxyln	3tr. 310 "	3 3 3 3 3x3 3 3 3 3 3	3F	3F-G3 " G interxyl
10-20	370 " porosity	310 " 320 "	3 3 3 3 3x3 3 3 3 3 3	3F	3F-G3 " G interxyl
20-30	3No samples	3 3	3 3 3 3 3 3 3 3 3 3	3	3T/P2 2330-40
30-40	380 "	310 " 310 "	3 3 3 3x3 3 3 3 3 3 3	3F	3 " F interxyl

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100-10	310 tan-brn	320 g-bl370 w-cl	3 3 3 3 3 3 3 3 3 3 3	3
10-20	370 Micro-Fxyln	310 tr.b320 "	3 3 3 3 3 3 3 3 3 3 3	3
20-30	370 same	310 " 320 "	3 3 3 3 3 3 3 3 3 3 3	3
30-40	360 "	310 " 320 "	3 3 3 3 3 3 3 3 3 3 3	3
40-50	340 "	310 " 350 "	3 3 3 3 3 3 3 3 3 3 3	3
50-60	340 " foss/tite	310 " 350 "	3x3 3 3x3 3 3 3 3 3 3 3	3
60-70	360 "	310 " 330 "	3x3 3 3x3 3 3 3 3 3 3 3	3
70-80	370 "	310 " 320 "	3 3 3 3 3 3 3 3 3 3 3	3Note: UV Box
80-90	360 "	310 " 330 "	3 3 3 3 3 3 3 3 3 3 3	3stopped work
90-2200	360 "	310 " 330 "	3 3 3 3 3 3 3 3 3 3 3	3problem w/el
200-10	370 "	310 " 320 "	3 3 3 3 3 3 3 3 3 3 3	3
10-20	340 "	310 " 350 "	3 3 3 3 3 3 3 3 3 3 3	3
20-30	320 "	310 " 370 "	3 3 3 3 3 3 3 3 3 3 3	3
30-40	320 "	310 " 370 "	3 3 3 3 3 3 3 3 3 3 3	3
40-50	320 "	310 " 370 "	3 3 3 3 3 3 3 3 3 3 3	3
50-60	380 "	3tr. 320 "	3 3 3 3x3 3 3 3 3 3 3F	3T/P1 sli. ra
60-70	390 "	3tr. 310 "	3 3 3 3x3 3 3 3 3 3 3F	3F-F3vuggy, foss
70-80	390 "	3tr. 310 "	3 3 3 3 3x3 3 3 3 3 3F	3 " rainbow &
80-90	390 "	3tr. 310 "	3 3 3 3 3x3 3 3 3 3 3F	3 " rainbow &
90-2300	390 " vugs &	3tr. 310 "	3 3 3 3 3x3 3 3 3 3 3F	3 " G interxyl
2300-10	390 " interxyln3tr.	310 "	3 3 3 3 3x3 3 3 3 3 3F	3F-G3 " G interxyl
10-20	370 " porosity	310 " 320 "	3 3 3 3 3x3 3 3 3 3 3F	3F-G3 " G interxyl
20-30	3No samples	3 3	3 3 3 3 3 3 3 3 3 3 3	3T/P2 2330-40
30-40	380 "	310 " 310 "	3 3 3 3x3 3 3 3 3 3 3F	3 " F interxyl

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10-20	370 Micro-Fxyln	310 tr.b320 "	3 3 3 3 3 3 3 3 3 3	3	
20-30	370 same	310 " 320 "	3 3 3 3 3 3 3 3 3 3	3	
30-40	360 "	310 " 320 "	3 3 3 3 3 3 3 3 3 3	3	
40-50	340 "	310 " 350 "	3 3 3 3 3 3 3 3 3 3	3	
50-60	340 " foss/tite310 "	350 "	3x3 3 3x3 3 3 3 3 3 3	3	
60-70	360 "	310 " 330 "	3x3 3 3x3 3 3 3 3 3 3	3	
70-80	370 "	310 " 320 "	3 3 3 3 3 3 3 3 3 3	3	Note: UV Box
80-90	360 "	310 " 330 "	3 3 3 3 3 3 3 3 3 3	3	stopped work
90-2200	360 "	310 " 330 "	3 3 3 3 3 3 3 3 3 3	3	problem w/el
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10-20	340 "	310 " 350 "	3 3 3 3 3 3 3 3 3 3	3	
20-30	320 "	310 " 370 "	3 3 3 3 3 3 3 3 3 3	3	
30-40	320 "	310 " 370 "	3 3 3 3 3 3 3 3 3 3	3	
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70-80	390 "	3tr. 310 "	3 3 3 3 3x3 3 3 3 3 3F	3	3 " rainbow &
80-90	390 "	3tr. 310 "	3 3 3 3 3x3 3 3 3 3 3F	3	3 " rainbow &
90-2300	390 " vugs &	3tr. 310 "	3 3 3 3 3x3 3 3 3 3 3F	3	3" G interxyl
2300-10	390 " interxyln3tr.	310 "	3 3 3 3 3x3 3 3 3 3 3F	3	3" G interxyl
10-20	370 " porosity	310 " 320 "	3 3 3 3 3x3 3 3 3 3 3F	3	3" G interxyl
20-30	3No samples	3 3	3 3 3 3 3 3 3 3 3 3	3	3T/P2 2330-40
30-40	380 "	310" 310 "	3 3 3 3x3 3 3 3 3 3 3F	3	3" F interxyl

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30-40	360 "	310 " 320 "	3 3 3 3 3 3 3 3 3 3 3	3
40-50	340 "	310 " 350 "	3 3 3 3 3 3 3 3 3 3 3	3
50-60	340 " foss/tite310 "	350 "	3x3 3 3x3 3 3 3 3 3 3 3	3
60-70	360 "	310 " 330 "	3x3 3 3x3 3 3 3 3 3 3 3	3
70-80	370 "	310 " 320 "	3 3 3 3 3 3 3 3 3 3 3	3Note: UV Box
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10-20	340 "	310 " 350 "	3 3 3 3 3 3 3 3 3 3 3	3
20-30	320 "	310 " 370 "	3 3 3 3 3 3 3 3 3 3 3	3
30-40	320 "	310 " 370 "	3 3 3 3 3 3 3 3 3 3 3	3
40-50	320 "	310 " 370 "	3 3 3 3 3 3 3 3 3 3 3	3
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70-80	390 "	3tr. 310 "	3 3 3 3 3x3 3 3 3 3 3F	3 " rainbow &
80-90	390 "	3tr. 310 "	3 3 3 3 3x3 3 3 3 3 3F	3 " rainbow &
90-2300	390 " vugs &	3tr. 310 "	3 3 3 3 3x3 3 3 3 3 3F	3" G interxyl
2300-10	390 " interxyln3tr.	310 "	3 3 3 3 3x3 3 3 3 3 3F	3F-G3" G interxyl
10-20	370 " porosity	310 " 320 "	3 3 3 3 3x3 3 3 3 3 3F	3F-G3" G interxyl
20-30	3No samples	3 3	3 3 3 3 3 3 3 3 3 3 3	3T/P2 2330-40
30-40	380 "	310" 310 "	3 3 3 3x3 3 3 3 3 3 3F	3" F interxyl