GEOLOGICAL REPORT

Larry A. Nicholson

COMPANY	C&M Exploration, LLC
API #	15-101-22663
LEASE	Rachel Davidson
WELL #	Davidson #31-2
SURVEY	SE/2 NW NW
SECTION	31
TWP	27S
RGE	15W
COUNTY	Pratt
STATE	Kansas

SPUD DATE: 10-15-2009 TD DATE: 10-22-2009
COMPLETION DATE: 10-23-2009 Rig # 2
ELEVATIONS: KB 1730 GL 1720
MUD UP @: 3000 MUD TYPE: Chemical
CASING INFORMATION: 8 5/8" @ 269' w/ 175 sx cmt
PRODUCTION CASING: None
PBTD: 4750
TOTAL DEPTH: 4750
DRILLING CONTRACTOR: Duke Drilling Co. Rig #2
DRILLING TIME: Kelly Down
DRILLING MEDIUM: Chemical Mud
DRILLING SUPERVISOR: Larry A. Nicholson
WELLSITE GEOLOGIST: Larry A. Nicholson
DATA COLLECTOR: Charles Crawford

ELECTRICAL SURVEYS: Run Dual Induction, Dual Compensated Porosity, Borehole Compensated Sonic

FORMATION TOPS & STRUCTURAL POSITION

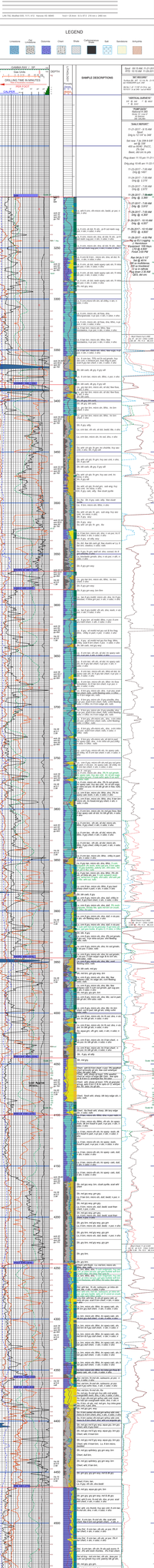
FORMATION	DRILLER'S DEPTH				STRUCTURAL POSITION			
	C&M	Nicholson	Cross	Mull	C&M	Nicholson	Cross	Mull
HEEBNER	2944	2943	2948	2919	-1214	-1213	-1218	-1189
TORONTO	2962	2961	2966	2937	-1232	-1231	-1236	-1207
LANSING	3080	3079	3084	3055	-1350	-1349	-1354	-1325
BKC	3506	3515	3514	3512	-1802	-1838	-1816	-1842
PAWNEE	3611	3610	3615	3586	-1881	-1880	-1885	-1856
MISS LIM	3708	3707	3712	3683	-1978	-1977	-1982	-1953
VIOLA	4556	4575	4570	4550	-2826	-2845	-2840	-2820
SIMPSON	4650	4669	4664	4644	-2920	-2939	-2934	-2914
SIMP SD	4705	4724	4719	4699	-2975	-2994	-2989	-2969
ARB	4955	4725	4971	4951	-3475	-2995	-3241	-3221
TD	4750	4750	4750	4750	-3270	-3020	-3020	-3020
LTD	4750	4750	4750	4750	-3270	-3020	-3020	-3020

REFERENCE WELLS: C&M Exploration - Davidson #1, S2 NE/4 NW, 27S - 15W; SE/2-NW-NW-31-27S-15W

REMARKS & RECOMMENDATIONS

LAS FILE: Davidson #31-2.las

Total = 20 Bins - 8.5 x 27.5 = 234 sq in = 2340 cm

LEGEND

Limestone | Dolomite | Sandstone | Chert | Shale | Oolitic/Pisolitic/Fossil Hash | Salt | Gypsum | Anhydrite