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 316-285-6431

GEOLOGIST'S REPORT
 DRILLING TIME AND SAMPLE LOG

OPERATOR: Ritchie Exploration, Inc.
 WELL NO.: 2
 LEASE: France
 LOCATION: 1225 E 11th St, FEL
 SECTION: 11 TWP 17S R16E S31W
 COUNTY: Wichita STATE: Kansas
 DUKF: DUKF Co. P. 9-4
 DUKF: DUKF Co. P. 9-4
 DUKF: DUKF Co. P. 9-4

DATE: 3/10/50
 TIME: 3:00 PM
 FROM: 3700' TO 4250'
 TO: 4250' TO 4750'
 FROM: 4750' TO 5000'
 TO: 5000' TO 5000'

PREPARED BY: J. L. ...
 CHECKED BY: J. L. ...
 APPROVED BY: J. L. ...

DEPTH	DIAMETER	REMARKS	TESTS
10-3-2011-187	1 1/2" 1/8"	RE. 2.63 2.63 N/A	
10-3-2011-188	1 1/2" 1/8"	RE. 4.81 4.81 N/A	
10-3-2011-189	1 1/2" 1/8"	RE. 5.30 5.30 N/A	
10-3-2011-190	1 1/2" 1/8"	RE. 5.80 5.80 N/A	
10-3-2011-191	1 1/2" 1/8"	RE. 6.30 6.30 N/A	
10-3-2011-192	1 1/2" 1/8"	RE. 6.80 6.80 N/A	
10-3-2011-193	1 1/2" 1/8"	RE. 7.30 7.30 N/A	
10-3-2011-194	1 1/2" 1/8"	RE. 7.80 7.80 N/A	
10-3-2011-195	1 1/2" 1/8"	RE. 8.30 8.30 N/A	
10-3-2011-196	1 1/2" 1/8"	RE. 8.80 8.80 N/A	
10-3-2011-197	1 1/2" 1/8"	RE. 9.30 9.30 N/A	
10-3-2011-198	1 1/2" 1/8"	RE. 9.80 9.80 N/A	
10-3-2011-199	1 1/2" 1/8"	RE. 10.30 10.30 N/A	
10-3-2011-200	1 1/2" 1/8"	RE. 10.80 10.80 N/A	

DEPTH	DIAMETER	REMARKS	TESTS
10-3-2011-201	1 1/2" 1/8"	RE. 11.30 11.30 N/A	
10-3-2011-202	1 1/2" 1/8"	RE. 11.80 11.80 N/A	
10-3-2011-203	1 1/2" 1/8"	RE. 12.30 12.30 N/A	
10-3-2011-204	1 1/2" 1/8"	RE. 12.80 12.80 N/A	
10-3-2011-205	1 1/2" 1/8"	RE. 13.30 13.30 N/A	
10-3-2011-206	1 1/2" 1/8"	RE. 13.80 13.80 N/A	
10-3-2011-207	1 1/2" 1/8"	RE. 14.30 14.30 N/A	
10-3-2011-208	1 1/2" 1/8"	RE. 14.80 14.80 N/A	
10-3-2011-209	1 1/2" 1/8"	RE. 15.30 15.30 N/A	
10-3-2011-210	1 1/2" 1/8"	RE. 15.80 15.80 N/A	

DEPTH	DIAMETER	REMARKS	TESTS
10-3-2011-211	1 1/2" 1/8"	RE. 16.30 16.30 N/A	
10-3-2011-212	1 1/2" 1/8"	RE. 16.80 16.80 N/A	
10-3-2011-213	1 1/2" 1/8"	RE. 17.30 17.30 N/A	
10-3-2011-214	1 1/2" 1/8"	RE. 17.80 17.80 N/A	
10-3-2011-215	1 1/2" 1/8"	RE. 18.30 18.30 N/A	
10-3-2011-216	1 1/2" 1/8"	RE. 18.80 18.80 N/A	
10-3-2011-217	1 1/2" 1/8"	RE. 19.30 19.30 N/A	
10-3-2011-218	1 1/2" 1/8"	RE. 19.80 19.80 N/A	
10-3-2011-219	1 1/2" 1/8"	RE. 20.30 20.30 N/A	
10-3-2011-220	1 1/2" 1/8"	RE. 20.80 20.80 N/A	

DEPTH	DIAMETER	REMARKS	TESTS
10-3-2011-221	1 1/2" 1/8"	RE. 21.30 21.30 N/A	
10-3-2011-222	1 1/2" 1/8"	RE. 21.80 21.80 N/A	
10-3-2011-223	1 1/2" 1/8"	RE. 22.30 22.30 N/A	
10-3-2011-224	1 1/2" 1/8"	RE. 22.80 22.80 N/A	
10-3-2011-225	1 1/2" 1/8"	RE. 23.30 23.30 N/A	
10-3-2011-226	1 1/2" 1/8"	RE. 23.80 23.80 N/A	
10-3-2011-227	1 1/2" 1/8"	RE. 24.30 24.30 N/A	
10-3-2011-228	1 1/2" 1/8"	RE. 24.80 24.80 N/A	
10-3-2011-229	1 1/2" 1/8"	RE. 25.30 25.30 N/A	
10-3-2011-230	1 1/2" 1/8"	RE. 25.80 25.80 N/A	

DEPTH	DIAMETER	REMARKS	TESTS
10-3-2011-231	1 1/2" 1/8"	RE. 26.30 26.30 N/A	
10-3-2011-232	1 1/2" 1/8"	RE. 26.80 26.80 N/A	
10-3-2011-233	1 1/2" 1/8"	RE. 27.30 27.30 N/A	
10-3-2011-234	1 1/2" 1/8"	RE. 27.80 27.80 N/A	
10-3-2011-235	1 1/2" 1/8"	RE. 28.30 28.30 N/A	
10-3-2011-236	1 1/2" 1/8"	RE. 28.80 28.80 N/A	
10-3-2011-237	1 1/2" 1/8"	RE. 29.30 29.30 N/A	
10-3-2011-238	1 1/2" 1/8"	RE. 29.80 29.80 N/A	
10-3-2011-239	1 1/2" 1/8"	RE. 30.30 30.30 N/A	
10-3-2011-240	1 1/2" 1/8"	RE. 30.80 30.80 N/A	

DEPTH	DIAMETER	REMARKS	TESTS
10-3-2011-241	1 1/2" 1/8"	RE. 31.30 31.30 N/A	
10-3-2011-242	1 1/2" 1/8"	RE. 31.80 31.80 N/A	
10-3-2011-243	1 1/2" 1/8"	RE. 32.30 32.30 N/A	
10-3-2011-244	1 1/2" 1/8"	RE. 32.80 32.80 N/A	
10-3-2011-245	1 1/2" 1/8"	RE. 33.30 33.30 N/A	
10-3-2011-246	1 1/2" 1/8"	RE. 33.80 33.80 N/A	
10-3-2011-247	1 1/2" 1/8"	RE. 34.30 34.30 N/A	
10-3-2011-248	1 1/2" 1/8"	RE. 34.80 34.80 N/A	
10-3-2011-249	1 1/2" 1/8"	RE. 35.30 35.30 N/A	
10-3-2011-250	1 1/2" 1/8"	RE. 35.80 35.80 N/A	

DEPTH	DIAMETER	REMARKS	TESTS
10-3-2011-251	1 1/2" 1/8"	RE. 36.30 36.30 N/A	
10-3-2011-252	1 1/2" 1/8"	RE. 36.80 36.80 N/A	
10-3-2011-253	1 1/2" 1/8"	RE. 37.30 37.30 N/A	
10-3-2011-254	1 1/2" 1/8"	RE. 37.80 37.80 N/A	
10-3-2011-255	1 1/2" 1/8"	RE. 38.30 38.30 N/A	
10-3-2011-256	1 1/2" 1/8"	RE. 38.80 38.80 N/A	
10-3-2011-257	1 1/2" 1/8"	RE. 39.30 39.30 N/A	
10-3-2011-258	1 1/2" 1/8"	RE. 39.80 39.80 N/A	
10-3-2011-259	1 1/2" 1/8"	RE. 40.30 40.30 N/A	
10-3-2011-260	1 1/2" 1/8"	RE. 40.80 40.80 N/A	

DEPTH	DIAMETER	REMARKS	TESTS
10-3-2011-261	1 1/2" 1/8"	RE. 41.30 41.30 N/A	
10-3-2011-262	1 1/2" 1/8"	RE. 41.80 41.80 N/A	
10-3-2011-263	1 1/2" 1/8"	RE. 42.30 42.30 N/A	
10-3-2011-264	1 1/2" 1/8"	RE. 42.80 42.80 N/A	
10-3-2011-265	1 1/2" 1/8"	RE. 43.30 43.30 N/A	
10-3-2011-266	1 1/2" 1/8"	RE. 43.80 43.80 N/A	
10-3-2011-267	1 1/2" 1/8"	RE. 44.30 44.30 N/A	
10-3-2011-268	1 1/2" 1/8"	RE. 44.80 44.80 N/A	
10-3-2011-269	1 1/2" 1/8"	RE. 45.30 45.30 N/A	
10-3-2011-270	1 1/2" 1/8"	RE. 45.80 45.80 N/A	

DEPTH	DIAMETER	REMARKS	TESTS
10-3-2011-271	1 1/2" 1/8"	RE. 46.30 46.30 N/A	
10-3-2011-272	1 1/2" 1/8"	RE. 46.80 46.80 N/A	
10-3-2011-273	1 1/2" 1/8"	RE. 47.30 47.30 N/A	
10-3-2011-274	1 1/2" 1/8"	RE. 47.80 47.80 N/A	
10-3-2011-275	1 1/2" 1/8"	RE. 48.30 48.30 N/A	
10-3-2011-276	1 1/2" 1/8"	RE. 48.80 48.80 N/A	
10-3-2011-277	1 1/2" 1/8"	RE. 49.30 49.30 N/A	
10-3-2011-278	1 1/2" 1/8"	RE. 49.80 49.80 N/A	
10-3-2011-279	1 1/2" 1/8"	RE. 50.30 50.30 N/A	
10-3-2011-280	1 1/2" 1/8"	RE. 50.80 50.80 N/A	

DEPTH	DIAMETER	REMARKS	TESTS
10-3-2011-281	1 1/2" 1/8"	RE. 51.30 51.30 N/A	
10-3-2011-282	1 1/2" 1/8"	RE. 51.80 51.80 N/A	
10-3-2011-283	1 1/2" 1/8"	RE. 52.30 52.30 N/A	
10-3-2011-284	1 1/2" 1/8"	RE. 52.80 52.80 N/A	
10-3-2011-285	1 1/2" 1/8"	RE. 53.30 53.30 N/A	
10-3-2011-286	1 1/2" 1/8"	RE. 53.80 53.80 N/A	
10-3-2011-287	1 1/2" 1/8"	RE. 54.30 54.30 N/A	
10-3-2011-288	1 1/2" 1/8"	RE. 54.80 54.80 N/A	
10-3-2011-289	1 1/2" 1/8"	RE. 55.30 55.30 N/A	
10-3-2011-290	1 1/2" 1/8"	RE. 55.80 55.80 N/A	

DEPTH	DIAMETER	REMARKS	TESTS
10-3-2011-291	1 1/2" 1/8"	RE. 56.30 56.30 N/A	
10-3-2011-292	1 1/2" 1/8"	RE. 56.80 56.80 N/A	
10-3-2011-293	1 1/2" 1/8"	RE. 57.30 57.30 N/A	
10-3-2011-294	1 1/2" 1/8"	RE. 57.80 57.80 N/A	
10-3-2011-295	1 1/2" 1/8"	RE. 58.30 58.30 N/A	
10-3-2011-296	1 1/2" 1/8"	RE. 58.80 58.80 N/A	
10-3-2011-297	1 1/2" 1/8"	RE. 59.30 59.30 N/A	
10-3-2011-298	1 1/2" 1/8"	RE. 59.80 59.80 N/A	
10-3-2011-299	1 1/2" 1/8"	RE. 60.30 60.30 N/A	
10-3-2011-300	1 1/2" 1/8"	RE. 60.80 60.80 N/A	

DEPTH	DIAMETER	REMARKS	TESTS
10-3-2011-301	1 1/2" 1/8"	RE. 61.30 61.30 N/A	
10-3-2011-302	1 1/2" 1/8"	RE. 61.80 61.80 N/A	
10-3-2011-303	1 1/2" 1/8"	RE. 62.30 62.30 N/A	
10-3-2011-304	1 1/2" 1/8"	RE. 62.80 62.80 N/A	
10-3-2011-305	1 1/2" 1/8"	RE. 63.30 63.30 N/A	
10-3-2011-306	1 1/2" 1/8"	RE. 63.80 63.80 N/A	
10-3-2011-307	1 1/2" 1/8"	RE. 64.30 64.30 N/A	
10-3-2011-308	1 1/2" 1/8"	RE. 64.80 64.80 N/A	
10-3-2011-309	1 1/2" 1/8"	RE. 65.30 65.30 N/A	
10-3-2011-310	1 1/2" 1/8"	RE. 65.80 65.80 N/A	

DEPTH	DIAMETER	REMARKS	TESTS
10-3-2011-311	1 1/2" 1/8"	RE. 66.30 66.30 N/A	
10-3-2011-312	1 1/2" 1/8"	RE. 66.80 66.80 N/A	
10-3-2011-313	1 1/2" 1/8"	RE. 67.30 67.30 N/A	
10-3-2011-314	1 1/2" 1/8"	RE. 67.80 67.80 N/A	
10-3-2011-315	1 1/2" 1/8"	RE. 68.30 68.30 N/A	
10-3-2011-316	1 1/2" 1/8"	RE. 68.80 68.80 N/A	
10-3-2011-317	1 1/2" 1/8"	RE. 69.30 69.30 N/A	
10-3-2011-318	1 1/2" 1/8"	RE. 69.80 69.80 N/A	
10-3-2011-319	1 1/2" 1/8"	RE. 70.30 70.30 N/A	
10-3-2011-320	1 1/2" 1/8"	RE. 70.80 70.80 N/A	

DEPTH	DIAMETER	REMARKS	TESTS
10-3-2011-321	1 1/2" 1/8"	RE. 71.30 71.30 N/A	
10-3-2011-322	1 1/2" 1/8"	RE. 71.80 71.80 N/A	
10-3-2011-323	1 1/2" 1/8"	RE. 72.30 72.30 N/A	
10-3-2011-324	1 1/2" 1/8"	RE. 72.80 72.80 N/A	
10-3-2011-325	1 1/2" 1/8"	RE. 73.30 73.30 N/A	
10-3-2011-326	1 1/2" 1/8"	RE. 73.80 73.80 N/A	
10-3-2011-327	1 1/2" 1/8"	RE. 74.30 74.30 N/A	
10-3-2011-328	1 1/2" 1/8"	RE. 74.80 74.80 N/A	
10-3-2011-329	1 1/2" 1/8"	RE. 75.30 75.30 N/A	
10-3-2011-330	1 1/2" 1/8"	RE. 75.80 75.80 N/A	

DEPTH	DIAMETER	REMARKS	TESTS
10-3-2011-331	1 1/2" 1/8"	RE. 76.30 76.30 N/A	
10-3-2011-332	1 1/2" 1/8"	RE. 76.80 76.80 N/A	
10-3-2011-333	1 1/2" 1/8"	RE. 77.30 77.30 N/A	
10-3-2011-334	1 1/2" 1/8"	RE. 77.80 77.80 N/A	
10-3-2011-335	1 1/2" 1/8"	RE. 78.30 78.30 N/A	
10-3-2011-336	1 1/2" 1/8"	RE. 78.80 78.80 N/A	
10-3-2011-337	1 1/2" 1/8"	RE. 79.30 79.30 N/A	
10-3-2011-338	1 1/2" 1/8"	RE. 79.80 79.80 N/A	
10-3-2011-339	1 1/		