

Plummer Consulting LLC
 APR 15-163-2411-00-00
 GEOLOGIST'S REPORT
 DRILLING TIME AND SAMPLE LOG

OPERATOR The Bill Bowman Oil Company
 LEASE HRABE 'A' WELL NO. 5
 FIELD Westphalia
 LOCATION 1/4 Sec 1 & 21/2' FEL
 SEC. 1 TWP. 9S RGE. 17W
 COUNTY ROOKS STATE KANSAS

CONTRACTOR White Knight Drilling LLC
 COMM. 10-07-2013 COOP. 10-11-2013
 SURF. 3480' TO 2700'
 SAMPLES SWED FROM 2700' TO T.O.
 DRILLING TIME KEPT FROM 2700' TO T.O.
 SAMPLES EXAMINED FROM 2700' TO T.O.
 GEOLOGICAL SUPERVISION FROM 2700' TO T.O.
 MID UP 2700' TYPE MUD CHEMICAL-DIAGRAM

FORMATION TOP LOG DATE TIME TOP DATE TIME SURFACE STRUC. COORD.
 ANNORITE 1249 (708) 1249 (708) +1
 B/ANNORITE 1282 (667) 1282 (667) +1
 TOPEKA 2833 (-884) -1
 HEERER 3049 (-1100) -1
 TORONTO 3073 (-1124) -1
 LAWSING 3094 (-1148) -1
 HUSHPACREY 3396 (-1496) -1
 ARBUCKLE 3795 (-1946) -1
 ROUGH 3840 -1
 TOTAL DEPTH 3840

DATE 10-07-13 10-08-13 10-09-13 10-10-13 10-11-13 10-12-13 10-13-13
 TIME 5:40 2:08 1:09 2:41 2:70 2:78 3:48
 HRC 1 2 3 4 5 6
 REC'D BY AR AR AR AR AR AR AR
 REC'D BY HRC HRC HRC HRC HRC HRC HRC
 REC'D BY RR RR RR RR RR RR RR
 REC'D BY 3481 3481 3481 3481 3481 3481 3481
 REC'D BY 574 574 574 574 574 574 574

MEASUREMENTS ARE ALL FROM KELLY BIDDING
 CASINO RECORD SURFACE 9 5/8" @ 218'
 15032 7865 22951
 COOR. 10-07-2013 COOP. 10-11-2013
 SURFACE 3480' TO 2700'
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 REC'D BY 574 574 574 574 574 574 574

REFERENCE WITH THE STRUCTURAL COMPARISON THE BILL BOWMAN OIL COMPANY
 HRABE 'A' 1/4, 4553' FEL & 1283' FEL,
 SEC 1-9S-17W, ROOKS COUNTY KANSAS

It was decided to set 5 1/2" CSG to further test the LK zones and or build a Arbuckle SWD.
 Plummer #5741

DATE	TIME	HRC	RR	3481	574
10-07-13	5:40	1	2 1/2	HRC	AR
10-08-13	2:08	2	3	HRC	RR
10-09-13	1:09	3	4	HRC	RR
10-10-13	2:41	4	5	HRC	RR
10-11-13	2:70	5	6	HRC	RR
10-12-13	2:78	6		HRC	RR
10-13-13	3:48			HRC	RR

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