DEVON OPERATING COMPANY...

Scale 1:240 Imperial

Well Name	King 20 - 17 #1H		
Surface Location	Sec. 20 - T14N - R10W		
API	35-049-24176-0000		
Licence Number	2013-0000		
Region	Canadian	Time	11:00 AM
Spud Date	7/31/2013		
Drilling Completed	7/31/2013	Time	10:30 PM
Surface Hole Material	8 3/4" HOLE & 9 5/8" FWL		
Bottom Hole Coordinates			
Ground Elevation	1234.00		
K.B. Elevation	1252.00		
Logged Interval	7000.00	To	20225.00
Total Depth	20225.00		
Drilling Fluid Type	Fresh Water / Brine		

OPERATOR

Company	Devon Operating Company LLC
Address	333 West Sheridan Ave. Oklahoma City, OK 73102
Contact Geologist	Building 1000
Contact Phone No.	David Pulliam
Contact Geologist	405-552-4560
Well Name	King 20 - 17
Well No.	#1H
API	35-049-24176-0000
State	Kansas
Field	Unnamed
Country	USA

LOGGED BY

Company: Sunburst Consulting, Inc.
Address: 2200 S. Utica Place, Suite 150
Building 1000
Tulsa, OK 74114
Phone No.: (918) 747-1111
Fax No.: (918) 747-1171

Name: Derek W. Patterson

REMARKS

After review of the geologic log, DEO identified, and the crew kept logs for the King 20-17, a lack described upon by operator Devon Energy Corporation for further evaluation of the Lateral Portion of the King 20-17 #1H.

Respectfully Submitted,

David. W. Patterson.

GENERAL INFORMATION

Mud & Fluid Information

Drilling Contractor	Southwest Drilling - Rig #8
Drilling Fluid Type	Fresh Water / Brine
Straight Drills	Lucia Turbo
Straight Drills	Lucia Turbo
Rotary Drills	Lucia Turbo
	Lucia Turbo
Mud Engineer	Mud Motor Unmanned
Engineer	Keith Newton
Geologist	Derek Patterson
Geologist Ph.	580-747-8846

Hydrocarbon Shows										
Formation	Depth	Lithology	Gas Units	Chromatography						
				C1	C2	C3	C4	C5	CO2	H2S
Bottom Hole	20225	Shale	2000	1000	500	250	100	50	0	0

Bit Record												
Bit No.	Size	Make	Type	Serial No.	Depth Out	Depth In	Feet	Hours	ROP	WOB	RPM	PSI
1	8 3/4"	Ulterra	U616M	7000	7000	0	0	0	0	0	0	0
2	8 3/4"	Ulterra	U616M	7000	20225	13225	0	0	0	0	0	0

DAILY DRILLING REPORT

Date	Activity Report
7-31-2013	0040 Drilling and connections again Permian/Hennessey beds. Displace mud system @ 0730. Overnight ROP's averaging 100 fph. Connection time 15 min. Drilling parameters: 20-25K WOB, 60 RPM, 400 GPM, 3200 psi, 1600 ft/hr. Trouble Gas encountered. Max gas 2000 units. Trip gas 1000 units. Lithology: Shale, Limestone, Sandstone, Chert.
7-31-2013	0140 Drilling and connections. Permian/Hennessey, Douglas, and Wilcox Coals. Drill 0700 to 1117 LTD. Overnight ROP's averaging 100 fph. Connection time 15 min. Drilling parameters: 20-25K WOB, 60 RPM, 400 GPM, 3200 psi, 1600 ft/hr. Trouble Gas encountered. Max gas 2000 units. Trip gas 1000 units. Lithology: Shale, Limestone, Sandstone, Chert. Circulate and condition mud system for trip. Trip out of hole for bit change. Lay down directional tools. Pick up new bit and motor. Trip in hole to 1117'. Circulate bottoms up. Drill 1117' to 1140' TD. Trip out of hole to surface casing. Lay down directional tools. Pick up new bit and motor. Trip in hole to 1140'. Circulate bottoms up. Drill 1140' to 1150' TD. Trip out of hole to surface casing. Lay down directional tools. Pick up new bit and motor. Trip in hole to 1150'. Circulate bottoms up. Drill 1150' to 1160' TD. Trip out of hole to surface casing. Lay down directional tools. Pick up new bit and motor. Trip in hole to 1160'. Circulate bottoms up. Drill 1160' to