

FIVE RIVERS K08-67-1HN
ORIGINAL HOLE

Daily Summary

Section	9	Township	4 N	Township N/S Dir	66 W	Range	
State/Province	COLORADO	County/Parish	WELD	Target Formation	NIOBRARA C	Platform/Pad Name	
Rig Start Date	7/27/2014	Spud Date	7/28/2014	Resume Drilling Operations Date	8/3/2014	Rig Release Date	8/6/2014
Target Depth (ftKB)	11,938	Max TVD (ftKB)	7,107.61	Actual Lateral Length		Planned Lateral Length	
KO MD (ftKB)	6,417.0	Original KB Elevation (ft)	4,729				

NPT

Drilling Time (hr)	Problem Time (hr)	0.0	Cum Problem Time (hr)	7.5	Problem Time (%)	0	Cum Problem Time (%)	3.4
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AFE / COSTS

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Daily Operations

Current Phase	Operations at Report Time	Operations Next Report Period	Pkr Stg Plan	Pkr Stg Deliv	Pkr Stg Att...
RUN AND CEMENT CASING	SKID TO FIVE RIVERS K09-66-1HN	SKID TO FIVE RIVERS K09-66-1HN			

Operations Summary

WASH DN 4.5 CSG T/BTMM. TAG @ 11,882', CIRC F/CMT, DROP SEATING BALL SET HANGER, CMT CSG SET/TEST PACKER, UNSTING, TOL PACKER 6,355.9 DISPLACE W/WATER, 60 BBLs SPACER T/SURFACE. T.O.H. DN SETTING TOOL, N/D BOP, N/U TBG SPOOL & TEST UPPER T/10K, LOWER T/5K, HELD 15 MIN EACH. R/R @ 01:30 T/FIVE RIVERS K09-66-1HN . WELL 2 OF 5.

Time Log

Start Time	End Time	Dur (hr)	Task Code	Class Code	Start Depth (ftKB)	End Depth (ftKB)	Activity
06:00	12:00	6.00	RCSG				
12:00	12:30	0.50	RCSG				
12:30	14:00	1.50	C&C				
14:00	15:00	1.00	RCSG				
15:00	15:45	0.75	RCSG				
15:45	16:00	0.25	CMT				
16:00	17:30	1.50	CMT				MIX PUMP 60 BBLs 11.5 TUNE 3 SPACER, MIX PUMP 30BBLs 13.8PPG MIXED W/SCR, YIELD 1.67, 100 SACK, MIX PUMP 110 BBLs 13.8PPG YIELD 1.67 =345 SACKS, SHUT DN WASH TUB AND LINES, DISPLACE CMT WITH 142 BBLs MMCR WATER, BUMP PLUG W/500PSI OVER LIFT PRESSURE. FINAL PSI 2400PSI, HELD 5 MINUTES, BLEED PSI OFF CHECK FLOAT. FLOATS HELD. 1.5 BBLs BLEED BACK.
17:30	18:30	1.00	RCSG				
18:30	19:00	0.50	C&C				
19:00	20:00	1.00	CMT				
20:00	23:00	3.00	TRIP				
23:00	00:30	1.50	ND BOP				
00:30	01:30	1.00	NU BOP				

Mud Check

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Mud Logging

Conn Gas	0	Drill Gas	0	Trip Gas	0
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Weather/Environmental Conditions

Weather	Cloudy	Road Condition	DRY	Temperature (°F)	59.0
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Drilling Parameters

BHA #	Bit Run	Bit Size (in)	Hole Size (in)	Make	Model	Serial Number	Avg ROP (ft/hr)	Total ROP (ft/hr)	Drilling Time (hr)	Depth Drilled (ft)
Start Depth (ftKB)	End Depth (ftKB)	Cum Circ Time (hr)	WOB (min)	WOB (max) (100...)	Depth In (no excl...)	Depth Out (no ex...)	Diff Press (psi)	Drill Str Wt (1000...)	PU Str Wt (1000...)	SO Str Wt (100...)
Rotating Time (hr)	% Rot Time (%)	Sliding Time (hr)	% Sliding Time (%)	RPM (min) (rpm)	RPM (max) (rpm)	Motor RPM (rpm)	Bit RPM (rpm)	Drilling Torque	Drilling Time (hr)	Sliding Time (hr)
Static BHT (°F)	Flow Rate (gpm)	Stand Pipe Pressure (psi)	Air Flow Rate (ft³/min)	Cum Drilling Time (hr)	Circulation Time (hr)					
Bit Dull-Tooth-Inner	Bit Dull-Tooth-Outer	Dull	Bit Dull-Tooth-Loc	Bit Dull-Bearing	Bit Dull-Gauge	Bit Dull-Other	Bit Dull-Reason Pulled	Bit Hours In (hr)		