



NIGHTHAWK PRODUCTION LLC

Blackcomb 12-14
NW SW Sec 14, T6S, R54W
LINCOLN COUNTY, COLORADO
API No. 05-73-06610-00

Prepared By: Harold Mayland
Date: 9/2/2014

ELEVATION
R.B. 5210'
G.L. 5,195
KB 15'
BHT
BHP
Spud date: 06/13/14
TD date: 08/05/14
Completion 08/28/14

Surface location
Lat: 39.527400
Long: -103.414280
2245' FSL 640' FWL

Geological tops:

Niobrara	3745	Cherokee	7403
Dakota	4558	Atoka	7559
Stone Correl	5951	Morrow	7817
Wolfcamp	6128	M2	7972
LKC	6858	M1	8008
Marmaton	7201	Spergen	8045
		Simpson	8146

Drilled hole 12 1/4"
SURFACE CSG: 8 5/8" 24# J55 ST&C @ 352'
Cmt: 175 sks class "A", 14.8# 1.54 yield
5 bbls cmt to surface

Drilled hole 7 7/8"
Production Casing: 5 1/2" 17# N80 LT&C @ 8,445'
Cmt: Lead: 908 sks 12 TXI. 12 PPG, 1.80 yield
Cmt: Tail: 310 sks 13TXI. 13 PPG 1.89 yield
30 sks cmt to pit

	5 1/2" 17# N80	2 7/8" J55 EU 8RD	2 7/8" X 5 1/2"
I.D.	4.892	I.D.	2.441
Drift	4.767	Drift	2.347
Burst	7,740	Burst	7,260
Lin ft/bbl	43.01	Lin ft/bbl	172.7500
BBL/linft	0.0232	BBL/linft	0.00579
			Lin ft/bbl 65.71
			BBL/linft 0.0152

Production Tubing

Top of Cement @

TUBING	Qty	Length	Depth in hole
Avg Jt length			
KB difference		13.00'	13.00'
Stretch		2.33'	15.33'
2 7/8" EU 8RD J55 tbg	251	7,920.36'	7,935.69'
TAC		2.67'	7,938.36'
2 7/8" EU 8RD J55 tbg	6	187.85'	8,126.21'
Seating Nipple		1.10'	8,127.31'
2 7/8" X 4' Perforated pup jt		4.00'	8,131.31'
2 7/8" EU 8RD J55 tbg	1	31.54'	8,162.85'
2 7/8" X 6' Perforated pup jt		6.00'	8,168.85'
2 7/8" X 2 3/8" X over		0.50'	8,169.35'
2 3/8" TXN nipple 1.875" 1.791 No go		1.00'	8,170.35'
2 3/8" X 8' pup jt		8.00'	8,178.35'
2 3/8" tap bull plug.		0.60'	8,178.95'
Total Jts	258		
Rods			
Polish Rod	1 1/2" x 30' w/1 1/4" x 16' Liner		
Pony rod	1" X 8' MMS	1	
Pony rod	1" X 6' MMS	1	
Pony rod	1" X 4' MMS	1	
Pony rod	1" X 2' MMS	1	
1" Rods	MMS	77	
1" Rods	MMS Guided 4/per	20	
7/8" Rods	MMS Guided 4/per	99	
3/4" Rods	MMS Guided 4/per	100	
1 1/2" K-Bars		25	
Pony rod	1" x 2'		
Pump	2 1/2" x 2" x 26" RHWBC BNC 2 Stg		

NOTE:
08/20/14 Perf 8,080'-8,090'.

Spergen
8,080'-8,090'

PBTD @ 8,351'
Collar @ 8,356'

Shoe @ 8,445'

TD 8,445'