



NIGHTHAWK PRODUCTION LLC

Blackcomb 3-14  
NE NW Sec 14, T6S, R54W  
LINCOLN COUNTY, COLORADO  
API No. 05-73-06602-00

Prepared By: Harold Mayland  
Date: 11/3/2014

ELEVATION  
R.B. 5,234'  
G.L. 5,219'  
KB 15'  
BHT  
BHP  
Spud date: 10/09/14  
TD date: 10/23/14  
Completion

Surface location  
Lat: 39.534090  
Long: -103.409230  
642' FNL 2120' FWL

Geological tops:

Niobrara	3557	Cherokee	7397
Dakota	4595	Atoka	7569
Stone Correl	5975	Morrow	7841
Wolfcamp	6196	M2	8003
LKC	6887	M1	8012
Marmaton	7195	Spergen	8062
		Simpson	8123

Drilled hole 12 1/4"  
**SURFACE CSG: 8 5/8" 24# J55 ST&C @ 353'**  
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,**  
Cmt: Lead: 890 sks 12 TXI. 12 PPG, 1.80 yield  
Cmt: Tail: 310 sks 13TXI. 13 PPG 1.89 yield  
75 bbls cmt to pit

Production Tubing  
Top of Cement @ 600'

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	Lin ft/bbl 65.71
BBL/linft 0.0232	BBL/linft 0.00579	BBL/linft 0.0152

TUBING	Qty	Length	Depth in hole
Avg Jt length	31.25'		
KB difference			0.00'
Stretch			0.00'
2 7/8" EU 8RD J55 tbg			0.00'
TAC			0.00'
2 7/8" EU 8RD J55 tbg			0.00'
Seating Nipple			0.00'
2 7/8" X 4' Perforated pup jt			0.00'
2 7/8" EU 8RD J55 tbg			0.00'
2 7/8" X 6' Perforated pup jt			0.00'
			0.00'
			0.00'
			0.00'
			0.00'
2 3/8" tap bull plug.			0.00'
Total Jts	0		
Rods			
Polish Rod	1 1/2" x 30' w/1 1/4" x 16' Liner		
Pony rod			
Pony rod			
Pony rod			
Pony rod			
1" Rods			
1" Rods			
7/8" Rods			
7/8" Rods			
3/4" Rods			
3/4" Rods			
3/4" Rods			
1 1/2" K-Bars			
Pony rod	1" x 2'		
Pump	2 1/2" x 2" x 26" RHWBC BNC 2 Stg Max stroke 230"		

NOTE:

LKC  
6,894'-6,898'  
7,142'-7,148'  
7,162'-7,172'

Marmaton  
7,334'-7,346'  
7,372'-7,376'

M1  
8,016'-24'

Spergen  
8,110'-8,118'

PBTD @ 8,257'  
Collar @ 8,177'

Shoe @ 8,271'

TD 8,271'