



NIGHTHAWK PRODUCTION LLC

Big Sky 4-11  
NW NW Sec 11, T6S, R54W  
LINCOLN COUNTY, COLORADO  
API No. 05-73-06523-00

Not to scale

Prepared By: Harold Mayland  
Date: 5/28/2013

ELEVATION  
R.B. 5,208  
G.L. 5,193  
KB 15' ±  
BHT 212  
BHP 1802  
Spud date: 04/12/13  
TD date: 05/08/13  
Completion 05/24/13

Geological tops:  
Niobrara 3686  
Dakota 4586  
Stone Corr 5976  
Wolfcamp 6188  
LKC 6882  
Marmaton 7207

Cherokee 7386  
Atoka 7552  
Morrow 7800  
Spergen 8016  
Aftuckle 8125

Lat: 38.548770  
Long: 103.41600  
615' FNL 622' FWL

Drilled hole 12 1/4"  
SURFACE CSG: 8 5/8" 24# J55 ST&C @ 301'  
Cmt: 70 sks 14# Class G to surface

Production Tubing

Drilled hole 7 7/8"

Production Casing: 5 1/2" 17# N80 LT&C @ 8,350'  
Cmt: Lead, 948 sks 12 ppg, 1.79 yield  
Cmt: Tail, 270 sks 13 ppg, 1.88 yield, 10 bbis cmt to pit.  
TOC Surface From CBL

5 1/2" 17# J55		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		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
KB difference	Avg Jt length	32.43	12.00
Stretch			2.20
2 7/8" EU 8RD J55 tbg	246	7,977.26	7,991.46
TAC			3.17
2 7/8" EU 8RD J55 tbg	4	129.67	8,124.30
Sealing Nipple			1.10
2 7/8" X 3' Perforated pup it			3.30
2 7/8" EU 8RD J55 tbg	1	32.45	8,161.15
2 7/8" X 3' Perforated pup it			3.30
2 7/8" X 2 3/8" X over			0.80
2 3/8" TXN nipple 1.875" 1.791 No go			1.00
2 3/8" X 6' pup it			6.30
2 3/8" tap bull plug.			0.50
Total Jts	251		8,173.05
Rods			
Polish rod 1 1/2" x 22'			
Pony rod 4' x 1"			
1" rods EL	114		
7/8" rods EL	122		
3/4" rods EL	74		
1 1/2" wt bars	12		
1" X2' pony rod	1		
2 1/2" x 2" X 16' X 22" RWBC			



NOTE:

04/25/13 Left fish in hole while drilling, see next tab for fish.  
05/17/13 CBL/CCL/GR, cmt to surface.  
05/20/13 Perf Spergen 8038-70'

Spergen  
8,038' - 8,070'

PBTD @ 8,259'  
Collar @ 8,259'  
Shoe @ 8,350'

TD 8,350'