



NIGHTHAWK PRODUCTION LLC

Whistler 6-22
SE NW Sec 22, T6S, R54W
LINCOLN COUNTY, COLORADO
API No. 05-73-06481-00

ELEVATION

R.B. 5264'
G.L. 5252'
KB 12'
BHT 210°
Spud date: 10/22/12
Completion

Lat: 38.51657
Long: 103.42797
1,668' FNL 1,951' FWL

Not to scale

Prepared By: Harold Mayland
Date: 7/11/2013

Geological tops:

Niobrara	3712	Cherokee	7466
Dakota	4604	Atoka	7637
Stone Correl	5979	Morrow	7946
Wolfcamp	6214	Spargen	8194
LKC	6906	Arbuckle	8372
Marmaton	7258		

Drilled hole 12 1/4"
SURFACE CSG: 8 5/8" 24# J55 ST&C @ 401'
Cmt: 130 sks Class G yield 1.54, 14 ppg to surface

Drilled hole 7 7/8"
Production Casing: 5 1/2" 17# N80 LT&C @ 8,471'
Cmt: Leed, 381 sks 12 ppg, 1.79 yield
Cmt: Tail, 362 sks 13 ppg, 1.43 yield, full returns,

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		11.00	11.00
2 7/8" EU 8RD J55 tbg	251	8,079.00	11.00
PKR Crest III (released)			8,090.00
2 7/8" EU 8RD J55 tbg			8,090.00
Sealing Nipple			8,090.00
2 7/8" EU 8RD J55 tbg			8,090.00
Retrieving tool			8,090.00
Total Joints	251		8,090.00
Rods			
Polish rod 1 1/2" x 22"			
Pony rod 2' x 7/8"			
Pony rod 4' x 7/8"			
Pony rod 6' x 7/8"			
Pony rod 8' x 7/8"			
7/8" rods			
3/4" rods			
2 1/2" x 2 x 20' RWBC w/2.5' spray metal plunger			

NOTE:

11/18/12 Perf 7,534'-40", 24 holes 0.52" dia.
11/19/12 Acidize 7,534'-40' w/ 600 gal 15% HCL
11/20/12 Set CIBP @ 7,520', perf 7,490'-7,504', 66 holes, 0.52" dia. Acidize w/1400 gal 15% HCL.
11/26/12 Set CIBP @ 7,485', perf 7,464'-74', 40 holes, 0.52" dia.
11/28/12 Set WRBP @ 7,455', perf 7432-40', 32 holes
Acidize 7,432'-40' w/800 gal 15% HCL.
11/29/12 Treated 7,432'-40' w/110 bbls 2% KCL w/ demulsifier.
12/01/12 Set WRBP @ 7,425', perf 7,396'-7,406' w/demulsifier, disp w/53 bbls 2% KCL.
04/07/13 Pulled WRBP @ 7455 & 7425'
04/08/13 Set CIBP 7365', Perf LKC 7178'-7200', 88 holes 0.52"
04/11/13 Acidize 7178-7200' w/2200 gal 28% HCL
04/18/13 Squeezed perforations 7178-7200' w/100 sks.
04/26/13 Drilled out squeeze.
05/03/13 Retest lower Marmaton, wtr w/trace oil.
05/06/13 Treatment f/Marmaton 7396-06' w/165 gal PAS-17
165 gal Iron-out, 835 gal wtr, 3 gal KCl-8K, 5 gal PS-200 biocide, 2 gal S-262 Scale inhibitor.
05/07/13 Acidize 7396-06 w/1000 gal 28% HCL, 22 gal AS-290, 3 gal FeNo, 2 gal Fe green, 5 gal AC-307, 5 gal AI-150, 10 gal PS-200, 2 gal Fe-262.
06/28/13 Drilled out CIBP's @ 7,485' & 7,520'.
7/1/2013 Perf 8,240'-8,280'.
07/03/13 Broke down perfs 7485-7520 w/56 bbls 2/5 KCL
07/10/13 Set CIBP @ 8100' w/2 sks cmt on top.

