



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: 10/19/2016

Geological tops:

Niobrara	3669	Cherokee	7497
Dakota	4604	Atoka	7680
Stone Correl	5977	Morrow	7947
Wolfcamp	6211	Spergen	8189
LKC	6905	Simpson	8289
Marmaton	7260	Granite Wa	8445

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.

Production Tubing

TOC 3,290' (CBL)

Port Collar @ 4,287'

5 1/2" 17# N80

I.D.	4.892
Drift	4.767
Burst	7,740
Lin ft/bbl	43.01
BBL/linft	0.0232

2 7/8" J55 EU 8RD	2 7/8" X 5 1/2"
I.D.	2.441
Drift	2.347
Burst	7,260
Lin ft/bbl	172.7500
BBL/linft	0.00579
Lin ft/bbl	65.71
BBL/linft	0.0152

	Qty	Length	Depth in hole
Tubing			
KB difference		11.00	11.00
			11.00
2 7/8" EU 8RD J55 tbhg	219	7,046.23	7,057.23
Seatin nipple		1.10	7,058.33

LKC
7178-7186
7178-7200' Squeezed
good oil shows.

Marmaton Show of oil
7,396-7,406'

7,432'-7,440' Show of oil

Cherokee (Excello)
7,464'-7,474'

Cherokee (V Shale)
7,490'-7,504'

Cherokee (Tebo)
7,534'-7,540'

Top of fish 8,040'
2 jts tbhg stuck in cmt.

Spergen
8,226-8,232'
8,240-8,280'

CIBP @ 7,140'
w/ 2 sks cmt

CIBP @ 7,450'
w/2 sks cmt

CIBP @ 8,100'
W/2 sks cmt

CIBP @ 8,236'

PBTD @ 8,360'
Collar @ 8,407'

Shoe @ 8,476'

TD 8,500'

- 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/ demulsifer.
- 12/01/12 Set WRBP @ 7,425', perf 7,396'-7,406' Acidize w/30 bbls 2% KCL, 1000 gal 15% HCL, w/demulsifer,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 KC1-8K, 5 gal PS-200 biocide, 2 gal S-262 Scale inhibitor.
- 05/07/13 Acidize 7,396-06 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 S-262.
- 05/13/13 Set RBP @ 7365', Perf 7178-86'
- 06/27/13 Pulled RBP from 7365'
- 06/28/13 Drilled out CIBP's @7,485' & 7,520'.
- 7/1/2013 Perf 8,240'-8,280'.
- 07/02/13 Set CIBP @8236', perf 8226-8232'
- 07/03/13 Broke down perfs 8226-32' w/56 bbls 2% KCL
- 07/10/13 Set CIBP @8100' w/2 sks cmt on top.
- 10/01/13 Cut off stuck tbhg @ 8,040'. Set CIBP @ 7,450'
- 01/22/14 POOH w/PKR, EOT @ 7380'
- 10/18/16 Dump bailed 2 sks cmt on CIBP @ 7,450'. Set CIBP @ 7,140' w/ 2sks cmt