

NIGHTHAWK PRODUCTION LLC

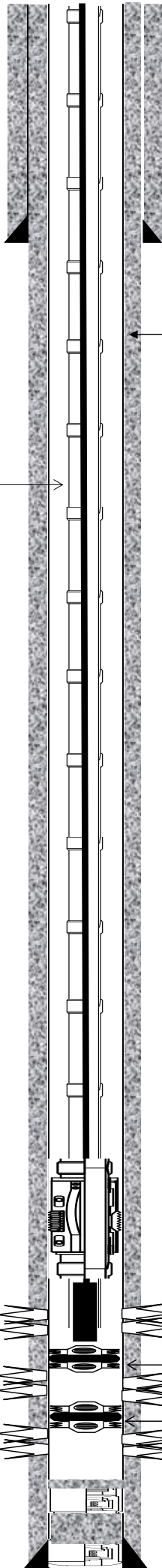
Keystone 3-7
NW NE Sec 7, T7S, R54W
LINCOLN COUNTY, COLORADO
API No. 05-73-06683-00

Prepared By: Harold Mayland
Date: 2/20/2015

ELEVATION
R.B. 5,343
G.L. 5,328
KB 15'
BHT
BHP
Spud date: 12/05/14
TD date: 12/20/14
Completion

Surface location
Lat: 39.460030
Long: -103.482520
679' FNL 2560' FEL

Not to scale



Geological tops:

Niobrara	3795	Cherokee	7539
Dakota	4644	Atoka	7744
Stone Correl	6035	Morrow	8020
Wolfcamp	6245	Spergen	8225
LKC	7006	Simpson	8322
Marmaton	7316	TD	8437

Drilled hole 12 1/4"
SURFACE CSG: 8 5/8" 24# J55 ST&C @ 438'
Cmt: 210 sks class "A", 14# 1.54 yield
4 bbls cmt to surface

Drilled hole 7 7/8"
Production Casing: 5 1/2" 17# N80 LT&C @ 8,479'
Cmt: Lead: 786 sks 12 TXI. 12 PPG, 1.80 yield
Cmt: Tail: 310 sks 13TXI. 13 PPG 1.89 yield
105 sks cmt to pit

Production Tubing	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		31.46'	
KB difference		13.00'	13.00'
Stretch		2.70'	15.70'
2 7/8" EU 8RD J55 tbg	255	8,023.47'	8,039.17'
TAC		2.70'	8,041.87'
2 7/8" EU 8RD J55 tbg	4	125.98'	8,167.85'
Seating Nipple		1.10'	8,168.95'
2 7/8" X 6' Perforated pup jt		6.20'	8,175.15'
2 7/8" EU 8RD J55 tbg	1	31.47'	8,206.62'
2 3/8" tap bull plug.		0.50'	8,207.12'
			8,207.12'
			8,207.12'
			8,207.12'
			8,207.12'
Total Jts	260		
Rods			
Polish Rod	1 1/2" x 30' w/1 3/4" x 16' Liner		
Pony rod	1" X 8' MMS	1	
Pony rod	1" X 6' MMS	1	
Pony rod	1" X 4' MMS	1	
1" Rods	MMS	107	
7/8" Rods	MMS	112	
3/4" Rods	MMS	94	
1 1/2" K-Bars		16	
Pony rod	1" x 2'	1	
Pump	2 1/2" x 2" x 26" RHWBC BNC Max stroke 230"		

NOTE:

- 01/05/15 Perf 8358'-64'
- 01/07/15 Set CIBP @ 8,350' Perf 8296'-98, 8254'-90'
- 02/10/15 Set CIBP @ 8,350' Perf 8296'-98, 8254'-90'
- 02/11/15 Set CIBP @ 8,292'

Spergen
8,254'-8,290'
8,296'-8,298'

Simpson
8,358'-8,364'

CIBP @ 8,292'

CIBP @ 8,350'

PBTD 8,380'
Collar @ 8,382'

Shoe @ 8,470'

TD 8,487'