



NIGHTHAWK PRODUCTION LLC

John Craig 4-2
SWNW Sec 2, T10S, R56W
LINCOLN COUNTY, COLORADO
API No. 05-73-06568-00

Prepared By: Harold Mayland
Date: 7/9/2014

ELEVATION
R.B. 5,310'
G.L. 5,295'
KB 15'
BHT
Spud date: 05/20/14
TD Date: 06/02/14
Completion

Lat: 39.211570
Long: -103.636190
1303' FNL 1124' FWL

Geological tops:

Dakota	4390	Atoka	7591
Cheyenne	4617	Morrow	7921
Stone Correl	5813	Mississipan	8067
Wolfcamp	6018	M2	8079
LKC	6803	M1	8079
Marmaton	7200	Spergen	8154
Cherokee	7397	Simpson	8253
		Granite Wash	8492

Drilled hole 12 1/4"
SURFACE CSG: 8 5/8" 24# J55 ST&C @ 353'
Cmt: 175 sks "A" 14 PPG, 1.54 yield
6 bbls cmt to surface

Drilled hole 7 7/8"
Production Casing: 5 1/2" 17# N80 LT&C @ 8,432'
Lead cmt: 913 sks TXT Lite, 12 ppg 1.79 yield
Tail cmt: 300 sks TXI Lite, 13 ppg 1.88 yield

Production Tubing

5 1/2" 17# N80
I.D. 4.892
Drift 4.767
Burst 7740
Lin ft/bbl 43.01
BBL/linft 0.0232

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

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

TUBING	Qty	Length	Depth in hole
Avg Jt length			
KB difference		12.00	12.00
Stretch		2.20	14.20
2 7/8" EU 8RD J55 tbg	242	7,670.56	7,684.76
2 7/8" X 5 1/2" TAC		2.80	7,687.56
2 7/8" EU 8RD J55 tbg	9	284.42	7,971.98
2 7/8" EU 8RD seating nipple		1.33	7,973.31
2 7/8" X 3' Perforated Pup Jt		3.1	7,976.41
2 7/8" EU 8RD J55 tbg	1	32.70	8,009.11
2 7/8" x 6' Perf Pup		6.10	8,015.21
2 7/8" x 2 3/8" x-over		0.50	8,015.71
2 3/8" XN Nipple 1.81.		1.00	8,016.71
2 3/8" x 8' pup jt		8.00	8,024.71
2 3/8" tap bull plug		0.50	8,025.21
RODS			
Polish rod 1 1/2" x 30' w/1 1/4" Liner	1		
3/8" Pony rod	1		
7/8" rods MMS	132		
3/4" rods MMS	171		
1 1/2" K bars	12		
7/8" X 2' Stabilizer pony rod	1		
2 1/2" x 2" x 26' RWBC 230" stroke	1		

NOTE:
06/18/14 Perf 7936'-40'
06/19/14 Acidize 7936'-40' w/600 gal 7.5% HCL
06/23/14 Set WRBP @ 7930', perf 7914'-20'
06/24/14 Acidize 7914'-20' w/1000 gal 7 1/2% HCL.
06/26/14 Acidize 7914'-20' w/1000 gal 12 1/2% HF (mud acid).
06/30/14 Pulled WRBP from 7930', Set @ 7890'.
Perf 7710'-40'
07/02/14 Acidize 7710'-40' w/5000 gal15% HCL
07/07/14 Pulled WRBP from 7890'.

Cherokee
7,410'-7,416'
7,426'-7,436'

Atoka
7,690'-7,740'

Morrow
7,914'-7,920'
7,936'-7,940'

PBTD @ 8,339'
Collar @ 8,339'

Shoe @ 8,432'

TD 8,432'