



NIGHTHAWK PRODUCTION LLC

SNOWBIRD 16-15
SE SE Sec 15, T6S, R54W
LINCOLN COUNTY, COLORADO
API No. 05-73-06561-00

ELEVATION
R.B. 5,256
G.L. 5,241
KB 15'
BHT 210'
BHP
Spud date: 09/25/14
TD Date: 10/10/14
Completion 11/04/14

Lat: 39.522910
Long: 103.419160
620' FSL 772' FEL

Not to scale

Prepared By: Joe Rezendes
Date: 5/28/2015

Geological tops:

Niobrara	3740	Atoka	7633
Dakota	4620	Morrow	7860
Dockum	5170	M 2	8028
Wolfcamp	6186	M 1	8052
LKC	6910	Spergen	8106
Marmaton	7221	Simpson	8173
Cherokee	7455	Granite Wa:	8313

Production Tubing

Drilled hole 12 1/4"
SURFACE CSG: 9 5/8" 36# J55 ST&C @ 309'
Cmt: 185 sks Class G 14 PPG, 1.54 yield,
7 bbls cmt to surface
Drilled hole 8 3/4"
Production Casing: 5 1/2" 17# N80 LT&C @ 8,399'
Cmt: Leed: 1155 skx TIX 12 ppg
Cmt: Tail: 480 skx TIX 13 ppg
Cmt to surface, 85 bbls

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

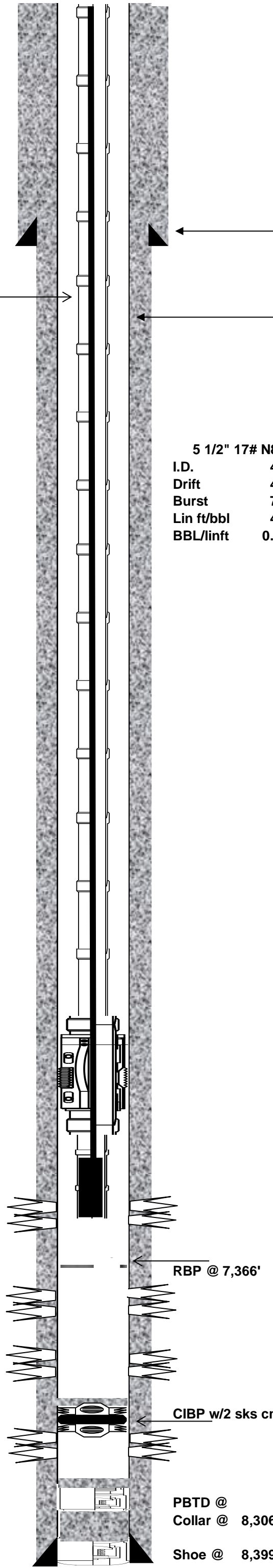
	Qty	Length	Depth in hole
Tubing		Avg Jt length	31.53
KB difference		12.00	12.00
Stretch		2.60	14.60
2 7/8" EU 8RD J55 tbg	225	7,094.17	7,108.77
TAC		2.67	7,111.44
2 7/8" EU 8RD J55 tbg	6	189.30	7,300.74
Seating Nipple		1.10	7,301.84
2 7/8" X 6" Perforated pup jt		6.30	7,308.14
2 7/8" EU 8RD J55 pup jt.		10.00	7,318.14
2 3/8" tap bull plug.		0.50	7,318.64
Total			7,318.64
Rods			
Polish rod 1 1/2" x 30' w/1 3/4" x 18' PR Liner			1
Pony rod 7/8" x 6'			1
7/8" rods (MMS 4 guided, spray metal cplgs.)			31
7/8" rods (MMS 4 fullsize T couplings)			35
7/8" rods (MMS 4 guided, spray metal cplgs.)			26
7/8" rods (MMS 4 fullsize T couplings)			13
3/4" rods (MMS 4 guided, spray metal cplgs.)			34
3/4" rods (spray metal cplgs.)			19
3/4" rods (MMS 4 guided, spray metal cplgs.)			29
3/4" rods (spray metal cplgs.)			91
K-bars 1 1/2" x 25			10
1" x 2" stabilizer pony rod			1
2 1/2" x 2" X 26' RHWBC 2-stage, BDV, BNC barrel,			
5' spray metal plgr 0.004 fit, TC seats, SS balls, double valves, 230" max stroke & 10' gas anchor			1

Marmaton
7,266'-7,274'

7,396'-7,404'

Cherokee
7,428'-7,431'

Spergen
8,141'-8,146'



RBP @ 7,366'

CIBP w/2 sks cmt @ 8,130'

PBTD @
Collar @ 8,306'

Shoe @ 8,399'

TD 8,400'

NOTE:

10/21/14 Perf 8,141'-46'
10/22/14 Set CIBP w/2 sks cmt @8,130', Perf 7,428'-31'
10/23/14 Acidize 7,428'031' w/500 gal 15% HCL
10/24/14 Set RBP @ 7,420', Perf 7,396'-7,404'
10/28/14 Pulled RBP from 7,420'
10/29/14 Set RBP @7,366', perf 7,266'-74'
10/30/14 Acidize 7,266'-74' w/1200 gal 15% HCL