



Black Hills Plateau Production, LLC

A Black Hills Corporation Enterprise



General Well Info

6/14/11 by jad

Well Name:	Winter Flats 1-10-100	Field:	Bronco Flats
Srf Location:	NESW 10 9S 100W 6PM	County:	Mesa
Lease #_(BLM):	C-12661A	State:	Colorado
API #:	05-077-08518	Spud Date:	9/9/1982
GL Elev:	7101'	TD Date:	9/20/1982
KB Elev:	7115'	Compl Date:	11/4/1982

Formation Tops

Zone	Depth	Zone	Depth
ROLLINS	1685'	CEDAR MTN	6464'
COZZETTE	1790'	MORRISON	6528'
CORCORAN	2036'		
MANCOS	2304'		
DAKOTA	6382'		

Surface casing (9/9/82):

9 5/8" (9jts) 36# K55 ST&C LS set @ 345' (13 3/4" hole)
300sx Reg 2% CaCl w/ 1/4#/sk Flocele – cmt circ
TOC @ srf

Production casing (9/21/82):

4 1/2" (36jts) 11.6# K55 LT&C (1450') & 4 1/2" (134jts) 10.5# K55 ST&C (5250') set @ 6679', FS @ 6679', FC @ 6662' (8 3/4" hole)
100sx Lite & 150sx Reg 2% CaCl w/ 1/4#/sk Flocele – good circ
TOC @ 5600' (per cmpl rpt – no CBL in file)

Actual P&A 12/4/10

Stuck packer in hole. Chemical cut tbg @ 4355'.
Repair and replace 4 1/2" csg from 686' to surface.
Set csg patch @ 686'.

11/19/10: Verbal approval for balanced plugs received from Bob Hartman (BLM)

Set balance plug at 4225' with 75 sx Class 3 cmt at 14.1 ppg, first 40 sx w/ 2% KCl. TIH 3802' and tagged cmt at 3835'.

Spotted 75 sx Class 3 cmt at 14.1 ppg in balanced plug. Tag 3383'.

TIH to 3180'. Pump 75 sx Class 3 cmt at 14.1 ppg in balanced plug.

Cmt tagged at 2750'. Witnessed by Ed Fancher (BLM)

Pump 75 sx Class 3 14.1 ppg w/ 2% KCl. Displaced 3 bbls. EOT 1050'.

Possibly slurry at 1086'. Tag cmt @ 1191'. Pump 75 sx Class 3 14.1 ppg w/ 2% KCl. Displaced 2 bbls. Witnessed by Ed Fancher (BLM).

TIH w/ 34 jts tbg. Did not tag cmt. EOT 1091'.

Pump 75 sx Class 3 14.1 ppg w/ 2% KCl. 8 bbls into job, established circ. Continued with 75 sx job. Displaced 2 bbls. Witnessed by Ed Fancher (BLM).

Tagged solid cmt at 630'. SOOH w/ tbg. Cmt on bottom 10 jts. Est. cmt top 310' inside 4 1/2" csg. Rig BJ to 4 1/2" csg. Pressure to 1140 psi twice. Holding.

Rig BJ to 9 5/8" csg. Pump 6 bbls ahead at 0 psi. Pump down 9 5/8" 110 sx of Class 3 14.1 ppg. Max 289 psi at 50 sx. Final ISDP 188 psi holding.

Top off 4 1/2" csg with 5 sx cmt, top off annulus between 4 1/2" and 9 5/8" with 10 sx cmt.

DKTA (10/14/82) 6401, 6403, 6414, 6421, 6429, 6431, CDMN? - 6472, 6474, 6502-6524' (31 holes)

♦ 10/15/82 BD w/3000gal 7 1/2% HCl & bs – balled off twice
MP 4220, AP 4050, MIR 6.7bpm, AIR 6.5bpm
ISIP 570, 15min 280

♦ 10/23/82 Frac w/95,800gal Versagel, 144,260# 20/40sd, 80T CO2 (600scf/bbl)
Sd off @ 3#/bbl - left 4000# sd in csg – rate dropped f/29bpm to 6bpm, 4350psi to 350psi (apparently csg split)
MP 4350, AP 3500, MIR 51bpm, AIR 45bpm
ISIP 300, 15min 0