



Black Hills Plateau Production, LLC

A Black Hills Corporation Enterprise

2015-05-15 jad

General Well Info

Well Name:	Winter Flats 1-11-99	Field:	Bronco Flats
Srf Location:	NWSW 11 9S 99W	County:	Mesa
Lease # (BLM):	C-12651A	State:	Colorado
API #:	05-077-08464	Spud Date:	2/4/1982
GL Elev:	6090'	TD Date:	3/9/1982
KB Elev:	6105'	Compl Date:	4/28/1982

Formation Tops

Zone	Depth	Zone	Depth
ROLLINS	2231'	DAKOTA SS	6888'
COZZETTE	2391'	CEDAR MTN	6981'
CORCORAN	2594'	MORRISON	7077'
MANCOS	2928'		
DAKOTA SILT	6855'		

TOC 3178'
(per CBL
2/27/82)

TOC per CBL
8/1/08
2228'

Surface casing (2/4/82):

10 3/4" (7jts) 40.5# K55 ST&C LS set @ 282' (15" hole)
300sx Reg 3% CaCl - good circ
TOC @ srf

Intermediate casing (2/25/82):

7" (87jts) 23# ST&C LS set @ 3340', FC @ 3300' (8 3/4" hole)
150sx Reg 2% CaCl w/ 1/4#/sk Flocele - plug did not bump - good circ
TOC 3178' (CBL 2/27/82)

2/28/82 Perf 3160', pump 175 sx reg cmt w/2% CaCl, good circ
Calc TOC after squeeze: 1840'

8/1/08 Set 7" cmt ret at 3100', pump 100 sx cmt below, 10 sx on top

Production casing (3/10/82):

4 1/2" (7jts) 11.6# K55 ST&C, (173 jts) 10.5# K55 ST&C set @ 7200', FC @ 7148' (6 1/4" hole)
100sx Lite & 150sx Reg w/ 1/4#/sk Flocele - bump plug @ 1500# - good circ
TOC @ 5100' (top of logged interval on CBL)
Calc TOC: 4398'

8/1/08 4 1/2" cutoff at 3390', pulled and LD

ACTUAL PLUGBACK 8/1/08

- RIH, set 4 1/2" CIBP @ 6850' - dump bail 2sx cmt on top of plug
- Cut off 4 1/2" casing @ 3390', pull free casing
- Set cement retainer @ 3100', pump 100sx cement below CR and 10sx on top of CR

Actual TOC from CBL ran 8-1-2008 2228'

Cmt calc as:

10sx in 7" csg on top of CR @ 3100' - 55ft
240' cmt in 7" csg (CR @ 3100', 7" csg landed @ 3340') - 43sx
50' cmt in 6 1/4" hole (btm of 7" csg, top of 4 1/2" csg) - 9sx
38sx cmt in 4 1/2" csg - ~530ft

TOC 4398'
(calc)

PROPOSED P&A

Perf 4 circ holes @ 1200'.

Set CR @ 1100'. Pump 45 sx Class C or Type III cmt. Dump 2 sx on top.

Perf 4 circ holes @ 332'

Pump 320 sx cmt and bring to surf.

Dig out wellhead, cut off 7" csg 6' below ground. Install dry hole marker as per BLM and COGCC.

DKTA (4/6/82) 6912, 6914, 6922, 6924' (4 holes) - (4/22/82) 6936' (1 hole)

- ◆ 4/23/82 BD w/500gal 7 1/2% HCl & bs, form broke @ 2800# @ 2bpm, balled out @ 4500#, MIR 4.5bpm
- ◆ 4/28/82 Frac w/ 65,500# 20/40m, 600scf CO2/bbl & 52,458gal Versagel @ 1#, 2#, 2.5# sd/gal
MIR 12.2bpm, AIR 10.5bpm, MP 4200, AP 4100 ISIP 3110, 15min 2640

CDMTN (4/6/82) 6992-7004' (7 holes) - Sqz'd 4/14/82 w/50sx Reg

- ◆ 4/7/82 DKTA/CDMTN BD 6912-7004' w/1000gal 7 1/2% acid & bs, form broke @ 2200#, 4 1/2bpm @ 3900# - very little ball action ISIP 1500, 15min on vac

CDMTN (4/16/82) 6992-6996' (4spf, 17 holes)

- ◆ 4/17/82 BD w/700gal 7 1/2% & bs, form broke @ 3500 @ 2.5bpm - some ball action
MIR 4.8bpm, AIR 3-4bpm, MP 4150, AP 3860
ISIP 1500, 5min on vac

CIBP @ 6980'
(4/22/82)