

1/11/16



Fay 1

05-123-12802-0000

Plugging Procedure

SHL: SWNE Sec 16-5N-65W, 1980 FSL & 1980 FWL

KB: 4661 ft
Weld County, CO

TD: 7147 ft KB
PBSD: 7100 ft

GL: 4649 ft
Surface Casing: 8 5/8" 24#/ft set @ 303 ft KB, cmt to surf
Prod Casing: 4 1/2" 11.6#/ft set @ 7145 ft KB
Existing Perfs: Codell 7056-7066 ft, 3 spf

1. Flow well to kill.
2. MIRU workover rig, pump and tank.
3. POOH with tubing.
4. RIH with 4-1/2" CIBP and set @ ~7000 ft. Dump bail 2 sks cmt on top of CIBP.
5. Perforate @ 4200 ft, 4 spf, big holes.
6. RIH w/ 4-1/2" CICR and set @ 4100 ft. Sting into CICR with tbg.
7. Mix and pump 50 sks G type cmt (15.8 ppg & 1.15 cft/sk), put ~40 sks cmt thru squeeze holes leaving the remaining cmt inside the csg (at least 2 sks on top of CICR).
8. Sting out of the CICR. Pull up hole ~1000 ft. Reverse circulate 2 tbg volumes.
9. Perforate @ 353 ft, 4spf, big holes.
10. RIH with tbg to 353 ft. Establish circulation up 8-5/8 X 4-1/2 annulus.
11. Mix & pump 70 sks G type cmt + 2% CaCl₂ (15.8 ppg & 1.15 cft/sk). Circulate cmt to surface, leaving ~10 sks in annulus from 253-353 ft. WOC. Tag plug.
12. POOH tbg.
13. Spot 10 sks G type cmt (15.8 ppg & 1.15 cft/sk) at surface inside 4-1/2" csg.
14. Dig out well down to cutoff casing 4 ft below grade. Weld on plate over stub with well name & API number.
15. Reclaim location.

Directions:

Schematic - Current

Well Name: **Fay 1**

API/UWI 05-123-12802	Surface Legal Location SWNE Sec 16-5N-65W	Field Name Wattenberg	License # 851591	State/Province Colorado	Well Configuration Type Vertical
Original KB Elevation (ft) 4,661.00	KB-Tubing Head Distance (ft)	Spud Date 11/10/1985 00:00	Rig Release Date	PBTD (All)	Total Depth All (TVD)

TD: 7,147.0

Vertical - Original Hole, 1/11/2016 10:35:23 AM

Vertical schematic (actual)

	MD (ftKB)	Incl (°)	TVD (ftKB)
	-166.2	0.0	-166.2
	12.1	0.0	12.1
Cement; 12.0 ftKB; 303.0 ftKB	157.6	0.4	157.6
Surface; 8 5/8 in; 12.0-303.0 ftKB	303.1	0.2	303.1
	1,401.6	0.1	1,401.6
	2,500.0	0.4	2,500.0
	4,500.0	0.0	4,499.9
	6,500.0	2.5	6,499.4
Cement; 6,500.0 ftKB; 7,145.0 ftKB	6,774.9	1.0	6,774.2
Codell; 7,050.0	7,049.9	0.0	7,049.2
	7,053.0	0.0	7,052.3
	7,056.1	0.0	7,055.4
Single Stage; 7,056.0-7,066.0; 12/2/1985	7,061.0	0.0	7,060.3
Perforated; 7,056.0-7,066.0; 12/1/1985	7,065.9	0.0	7,065.2
	7,083.0	0.0	7,082.3
Auto cement plug; 7,100.0 ftKB; 7,145.0 ftKB	7,100.1	0.0	7,099.4
	7,122.5	0.0	7,121.8
Production; 4 1/2 in; 12.0-7,145.0 ftKB	7,145.0	0.0	7,144.3
	7,324.4	0.0	7,323.7

Well Name: Fay 1

API/UWI 05-123-12802	Surface Legal Location SWNE Sec 16-5N-65W	Field Name Wattenberg	License # 851591	State/Province Colorado	Well Configuration Type Vertical
Original KB Elevation (ft) 4,661.00	KB-Tubing Head Distance (ft)	Spud Date 11/10/1985 00:00	Rig Release Date	FBTD (All)	Total Depth All (TVD)

TD: 7,147.0

Vertical - Original Hole, 1/11/2016 10:37:09 AM

Vertical schematic (actual)

MD (ftKB)	Incl (°)	TVD (ftKB)
-166.2	0.0	-166.2
12.1	0.0	12.1
157.6	0.4	157.6
303.1	0.2	303.1
1,401.6	0.1	1,401.6
2,500.0	0.4	2,500.0
4,500.0	0.0	4,499.9
6,500.0	2.5	6,499.4
6,774.9	1.0	6,774.2
7,049.9	0.0	7,049.2
7,053.0	0.0	7,052.3
7,056.1	0.0	7,055.4
7,061.0	0.0	7,060.3
7,065.9	0.0	7,065.2
7,083.0	0.0	7,082.3
7,100.1	0.0	7,099.4
7,122.5	0.0	7,121.8
7,145.0	0.0	7,144.3
7,324.4	0.0	7,323.7

all cmt G type @ 15.8 ppg + 1.15 ct+/sk

Cement; 12.0 ftKB; 303.0 ftKB

60 sks circulated to surface
10 sks in esgf/253-353 ft
Surface; 8 5/8 in; 12.0-303.0 ftKB

sqz hole @ 353 ft

50 sks cmt (40 in annulus
10 in esgf)
CIBP @ 4100 ft
sqz hole @ 4200 ft, 4 spf

Cement; 6,500.0 ftKB; 7,145.0 ftKB

Codell; 7,050.0

CIBP @ 7000 ft + 2 sk cmt

Single Stage; 7,056.0-7,066.0;
12/2/1985
Perforated; 7,056.0-7,066.0; 12/1/1985

Auto cement plug; 7,100.0 ftKB;
7,145.0 ftKB

Production; 4 1/2 in; 12.0-7,145.0 ftKB