

Assessment of P&A Wells Within 1/4 Mile of Proposed CBM Well

September 11, 2015

Operator: BP America Production Company

Proposed Well(s): Ford H 1, 2, & 3 (API Pending)

Location: Sec 10, T33N, R08W

Based on a review of COGCC records, the following wells were identified as plugged and abandoned within 1/4 mile of our proposed well.

Well Name: Ford Gas Unit 1 (API 05-067-05490)

Location: NWNW Sec 10, T33N, R08W

Drilled By: Stanolind Oil and Gas Company

Operator Name: Pan American Petroleum Corp

Date Plugged: April 14, 1960

The subject well was completed in January 1953 in the Fruitland formation with a TD of 2895'. The well was shot from 2645' to 2850'. The well was completed with the equipment summarized in the table below. Note that only the number of sacks used to cement the casing was reflected in the records. As a result, TOC for the surface and intermediate strings was calculated assuming a hole size consistent with each casing string, Class G neat cement with a yield of 1.15 cu. ft./sk, and a gauge hole.

Casing String	Hole Size (in)	Casing Type	Top (ft)	Bottom (ft)	TOC (ft)	TOC Depth Method	Install Date	Removal Date
Surface	12-1/4"*	10 3/4" 40.5 ppf	0	739'	Surf	Calc. (400 sx)	1953	-
Production	9-5/8"*	7" 20 ppf	0	2605'	793'	Calc. (375 sx)	1953	-
Liner	6-1/8"*	5 1/2"	?	?	Uncemented	N/A	1953	April 1960
Tubing	?	2" 4.7 ppf	0	2887'	-	-	1953	April 1960
Open-hole	?		2887'	2895'	-	-	1953	

* hole size assumed based on casing size

It appears that the well was not capable of commercial production and it was eventually plugged and abandoned in April 1960. The 2" tubing and 5-1/2" liner were pulled and a 115 sack cement plug was set to fill the open-hole section to 50' above the 7" casing shoe (2895' to 2555') and the hole was filled with fluid. A 5 sack surface plug was set from 40' to surface and a P&A marker was installed.

A visual inspection of the Pan American Petroleum Corp. 1 Ford GU PA location was conducted by BP personnel on September 11, 2015. The location was properly marked with a steel pipe (Photo 1). The PA Is located in a reclaimed well pad with abundant native vegetation. There is significant residential debris in the vicinity of the PA marker

(Photo 2). There were no bare spots or signs of stressed vegetation anywhere near the PA marker (Photo 3). There is what appears to be older soil vapor tubes near the PA marker from some prior testing. The area around the pipe was saturated with water to test for bubbles, but no bubbles were observed.

Based on our review of available records and the assumptions stated above, it appears the subject well has been abandoned in a manner which provides sufficient isolation of the Fruitland formation (Top at 2630').



Figure 1 – Ford Gas Unit 1 Location



Figure 2 – Ford Gas Unit 1 Location



Figure 3 – Ford Gas Unit 1 Location