



Cement work date: 10/27/2015

Method used	String	Cementing tool setting/perf depth	Cement volume	Cement top	Cement bottom
SQUEEZE	1ST	1,861	100	1,882	2,094
PERF & PUMP	1ST	767	150	0	767

Details of work:

10/26/2015 MIRU Excell Services rig. Pump 10 bbl of 2% KCL down tbg, well killed. Unhung well. Release packer, POOH w/ packer and 94 jts 2-3/8" tbg. NU BOP. RIH and talley tbg work string. (97.5 jts 2-3/8" tbg, csg scraper & bit) Found PBSD @ 3070' KB. POOH w/ 97.5 jts tbg, csg scraper & bit. SWIFN.

10/27/2015 RIH w/ RBP, packer, & 79 jts tbg. Set RBP @ 2500' KB. POOH w/ 1 jt tbg, set packer @ 2460' KB. Pressure test RBP to 400 psi. HELD. POOH w/ 3 jts tbg. Dump 2sx sand on RBP. POOH w/ 6 jts tbg, set packer @ 2176' KB. Pressure test csg to 400 psi. DID NOT HOLD. Test backside to 400 psi. DID NOT HOLD. POOH w/ 2 jts tbg. Set packer @ 2113' KB & test backside to 400 psi. DID NOT HOLD. POOH w/ 7 jts tbg. Set packer @ 1892' KB. Test backside to 400 psi. HELD. RIH w/ 3 jts tbg. Set packer @ 1988' KB. Test backside to 400 psi. HELD. Top of csg leak @ 1988' KB. POOH w/ 4 jts tbg. Set packer @ 1861' KB. Test backside to 400 psi. HELD. MIRU Basic Cementers. Establish Pump-in rate w/ 2 % KCL, 0.5 Bpm @ 800 psi. Pumped 100 sx Class A neat cement w/ 2 % cc. Max pressure = 900 psi. Avg pressure = 700 psi. Max Rate = 2.5 Bpm. Avg Rate = 2.0 Bpm. ISIP = 400 psi. Release pressure on squeeze, HELD. Reverse tbg out. Clean up lines. Put 300 psi on squeeze. SWIFN to let cement setup.

10/28/2015 SI Pressure = 0 psi. Release packer, POOH w/ 59 jts tbg and packer. RU Pioneer Wireline. Perf @ 767' KB, 4 spf, w/ csg guns. RD Wireline, ND BOPs. RU Basic Cementers. Established circulation w/ 2% KCL. Pumped 150 sx 60/40 Pozmix cmt w/ 2% CC. Established circulation from surface csg while pumping, displaced cement and SD. Cement circulated up outside of surf.csg. Max Pressure = 303 psi, Avg Pressure = 240 Psi, Avg Rate = 1.5 Bpm, Max Rate = 2.8 Bpm, ISIP = 260 psi. Pressure up on squeeze, HELD. Bled off. Wait 30mins, pressure up to 300 psi. Tie-in cementers to surface csg. Pump 20 sx cement down surface csg. Cement circulated to surf. Instantly. Clean lines, RD Basic Cementers. SWIFN.

10/29/2015 SI Pressure = 0 psi. RIH w/ bit, bit sub, 4 DCs, & 18.18 jts tbg. Tag cement @ 688' KB. RU power swivel, drill out cement squeeze. Fell through bottom of cement @ 840' KB. RIH w/ additional 23.32 jts. (56.32 total jts). Tag top of cement @ 1882' KB. Drill out cement, fell through bottom of cement @ 2094' KB. Pressure test to 400 psi. HELD. Bled off pressure. SWIFN.

10/30/2015 RIH and tag RBP @ 2459' KB. Circulate sand off RBP. POOH w/ 73.18 jts tbg, 4 DCs, bit sub & bit. MIRU Pioneer Wireline. Run CBL-GR-CCL from 2200' KB to surface. RDMO Pioneer Wireline. RIH w/ 79 jts tbg and retrieving head. RU swab and swab well down to SN. Latch on to RBP and release. POOH w/ 79 jts tbg, retrieving head, and RBP. SWIFN.

10/31/2015 RIH with SN and 94 jts tbg. Land tbg @ 2955' KB. RU swab and swab well down to SN. RD swab. Plumb in wellhead. RDMO Excell Services.

**FORMATION LOG INTERVALS AND TEST ZONES**

FORMATION NAME	Measured Depth		Check if applies		COMMENTS (All DST and Core Analysis must be submitted to COGCC)
	Top	Bottom	DST	Cored	

Comment:

I hereby certify all statements made in this form are, to the best of my knowledge, true, correct, and complete.

Signed: \_\_\_\_\_

Print Name: Ty Lunn

Title: Engineer

Date: \_\_\_\_\_

Email: tlunn@stelbar.com

### Attachment Check List

Att Doc Num	Document Name	attached ?	
<b>Attachment Checklist</b>			
400937654	CMT Summary *	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
	Core Analysis	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
	Directional Survey **	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
	DST Analysis	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
	Logs	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
	Other	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
<b>Other Attachments</b>			
400937609	WELLBORE DIAGRAM	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>

### General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>

Total: 0 comment(s)