

Casing Type	Size of Hole	Size of Casing	Wt/Ft	Csg/Liner Top	Setting Depth	Sacks Cmt	Cmt Top	Cmt Bot	Status
CONDUCTOR	36	30		0	59		0	59	VISU
SURF	14+3/4	10+3/4	45.5	0	3,807	2,980	0	3,807	VISU
1ST	9+1/2	7+5/8	26-39	0	8,479	1,800	2,800	8,479	CBL
OPEN HOLE	6+1/2			8479	9,500	0	8,479	8,479	CALC

STAGE/TOP OUT/REMEDIAL CEMENT

Cement work date: 12/06/1983

Method used	String	Cementing tool setting/perf depth	Cement volume	Cement top	Cement bottom
	1ST				

Details of work:

Conductor Cement
cement with ready-mix to surface

Surface Cement
Date Cemented: 11/13/1983
Lead : 2680 sx Lite, 2% CaCl₂, 1/4#/sk flocele
Tail : 300 sx Class B, 32% CaCl₂, 1/4#/sk flocele, 1% Halad-9
Note : circ 40 bbls dehydrated cmt

Prod Cement
Date Cemented: 12/6/1983
Lead: 1215 sx Lite, 1/4#/sk flocele, 12.8% Salt
Tail: 150 sx Class H, 0.6% HR4
disp w/ 388 bbl H₂O w/ Tretolite K700 & K490
Note : no cmt to pits, ran temp survey TOC = 550'
CBL run 8/17/12 TOC = 2800'

Date Patch Cemented: 9/22/2012
Lead: 435 sx 50/50/POZ, 2% CaCl₂, .1% CFR-3
Note : circ to surface, rev circ 17.7 bbls

Liner Cement
Date Cemented:
Lead : 350 sx Lite
Tail : 100 sx 50/50/POZ
Note :

Sqz Date: 3/13/84
Cmt sqz perf from 8100' to 8286' w/ 200 sx

Perf Dates: 3/14/84, 3/19/84, 4/16/84
7924 - 7925, 8065 - 8064
8100' - 8134', 8143' - 8146', 8158' - 8162'
8176' - 8188', 8212' - 8218', 8278' - 8286'
4 shots/ft with 292 total shots (3 times)
Sqz Date: 8/28/12
Cmt sqz perfs w/ 200 sx Class G

Perf Date: 9/30/12 & 10/3/12
8398' - 8474' & 8278' - 8333'

21. Formation log intervals and test zones:

FORMATION LOG INTERVALS AND TEST ZONES

FORMATION NAME	Measured Depth		Check if applies		COMMENTS (All DST and Core Analyses must be submitted to COGCC)
	Top	Bottom	DST	Cored	
CAMBRIAN	8,500		<input type="checkbox"/>	<input type="checkbox"/>	
PRECAMBRIAN	9,480		<input type="checkbox"/>	<input type="checkbox"/>	

Comment:

There are 2 sizes of the OH (see WBD); validation check will not allow submittal of 2 OH: 9 1/2" to 8482' and 6 1/2" to TD (9500'). Submitted as 5 "other" documents that are the related EPA permits/documents.

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

Signed: _____ Print Name: Paul E. Belanger

Title: Regulatory Consultant Date: _____ Email: Paul_Belanger@KinderMorgan.com

Attachment Check List

Att Doc Num	Document Name	attached ?	
<u>Attachment Checklist</u>			
400348371	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"/>
400351975	Other	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
<u>Other Attachments</u>			
400348370	WELLBORE DIAGRAM	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>

General Comments

User Group	Comment	Comment Date

Total: 0 comment(s)