



HOBBS OCD
JAN 28 2014
RECEIVED

DIAMOND 31 FED COM #1 REQUEST TO AMEND PACKER DEPTH

SECT 31, T24S, R34E

1980' FSL & 1980' FWL

API: 30-025-29000

EOG is in the process of converting the Diamond 31 FC #1 to a SWD, and we have completed the plug back portion of the procedure. On Friday the 17th, we squeezed 370sx of cement behind the 7" casing with the goal of raising the TOC behind this string of casing from 6,224' to at least 4,600', giving at least 500' of tie back above the 9-5/8" shoe at 5,120'.

A CBL run on January 19th showed the TOC to be 5,375' after the squeeze, leaving 255' of open hole below the 9-5/8" shoe. On January 20th, we did a Braden head squeeze of 350sx Class C down the 7"x9-5/8" annulus with the goal of raising the TOC inside the intermediate casing, however a CBL run the 21st showed the while the TOC was 3,290', there a void space behind the 7" between 5,290'-5,370'.

Based on our permitted injection interval of 5,440'-7,200', we intend to make our uppermost injection perf at 5,465', and set our packer within 100' feet of it, which would be at least 5,365' or deeper, just below the void space. While we have considered squeezing the void space, perforating the 7" casing would reduce the mechanical integrity of the wellbore. For this reason, we request permission to set the injection packer above this void space, at 5,280'.

Summary of Operations to plug back/Convert the Diamond 31 FC #1:

1/6/2014	MIRU, prepare to TIH with work string.
1/7/2014	Rig repairs.
1/8/2014	Rig repairs.
1/9/2014	TIH, tag fill at 14,623'. Spotted 100sx Class H at 14,623'.
1/10/2014	Tag cement at 12,881'. TOH, LD 2-3/8" tubing.
1/11/2014	TIH to 12,881', spotted 60sx Class H at 12,881'
1/12/2014	TOH with plugged tubing.
1/13/2014	TIH and tagged plug at 12,625'. Displaced wellbore with 450bbbls of 10ppg mud. Spotted 60sx Class H at 12,367'.

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1/14/2014 Tagged plug at 12,113'. Spotted 120bbls 10ppg mud. Spotted 80sx Class H at 9,126'.

1/15/2014 Tagged plug at 8,651'. Spotted 58bbls of 10ppg mud. TOH. Set 7" CIBP @ 7,200'. Dump bail 8sx (44') of Class H on CIBP.

1/16/2014 Test 7" casing to 1,200psi, pressure decreased to 1,190psi after one hour. Perforate 7" casing with 5 holes at 6,200'. Break circulation in 7"x9-5/8" annulus with 185bbls of 10ppg mud. Set cement retainer at 6,084'. Establish pump in rate of 3 BPM at 750psi.

1/17/2014 Squeezed 150sx Class C lead, 220sx Class H tail. Stung out of cement retainer, reverse tubing clean. Make up 6-1/8" mill tooth bit, TIH to 6,010', prepare to drill cement retainer.

1/18/2014 Drill out cement and cement retainer from 6,076'-6,086'. Drill through cement from 6,086' to 6,200'. TIH to 6,284', no restrictions. Displace hole with 267bbls 10ppg brine. TOH, LD bit.

1/19/2014 Run CBL from 6,500'-5,150', found TOC behind 7" to be 5,375'. Establish injection rate of 2.5 BPM at 425psi through 7"x9-5/8" annulus.

1/20/2014 Braden head squeeze 350sx Class C down 7"x9-5/8" annulus. Displace with 98bbls fresh water. Final injection pressure 425psi.

1/21/2014 Run CBL, found void from 5,290'-5,370', TOC 3,290' behind 7" casing.

API# 30-025-29000
Sect 31, T24S, R34E
1980' FSL & 1980' FWL
Lea County, NM



	SPUD	TD
DRILLING	10/16/1984	12/9/1984
LAST REVISED	1/21/2014	SMB
	NRI	

Formation Tops	GL	KB	Hole	AFF. #
<div><div>11-3/4" 42# H-40 STC</div><div>9-5/8" 36# 40# KSS STC</div><div>Injection Perfs 5,465'-7,028' 957' total footage 3,828 Holes</div><div>Morrow "A" 14,595'-14,624" (110)</div><div>Sintra Sand 14,800'-14,14,817" (37)</div><div>Morrow "C" 15,203'-15,244" (24)</div><div>4-1/2" 15.1# P-110</div></div> <div><div>620'</div><div>5,120'</div><div>TOL: 12,885'</div><div>13,200'</div><div>Fill: 14,623' (Tagged 1/10/14)</div><div>TD: 15,360'</div></div>				
17-1/2"				TOC @ 3,290 from CBL on 1/21/14
12-1/4"				Void from 5,290'-5,370'
				Perf 7" csg @ 6,200' on 1/17/14. Squeeze 150#x Class C and 220#x Class H on 1/18/14
				Set 7" CIBP @ 7,200', dump bailed 44' Class H on 1/16/14, TAGGED @ 7,140' on 1/17/14
				Spotted 80#x Class H @ 9,126', TAGGED @ 8,651' on 1/16/14
				Spotted 60#x Class H @ 12,367' on 1/14/14. TAGGED @ 12,113' on 1/15/14.
				Spotted 60#x Class H @ 12,881' on 1/12/14, TAGGED @ 12,625' on 1/14/14 TAGGED Cmt @ 12,881' on 1/11/14
8-3/4"				Spotted 100#x Class H @ ±14623' TAG on 1/10/14
6-1/8"				

ROD DETAIL				
COUNT	SIZE	ITEM	DEPTH	

TUBING DETAIL				
COUNT	SIZE	ITEM	DEPTH	

Tubular Dimensions	Burst	Collapse	ID	Drift	bbt/t
13-3/8" 54.5# K-55	2730	1130	12.615	12.459	
9-5/8" 40# K-55	3950	2570	8.835	8.679	
9-5/8" 36# K-55	3520	2020	8.921	8.765	
7" 26# P-110	9950	6230	6.276	6.151	
4-1/2" 15.1# P-110	14420	14350	3.826	3.701	