Inconsistencies regarding reported cement top:

7/12/96: Top of cement reported to NMOCD as 5000' (C-108)

10/31/97: TOC reported as 5200' (C-105)

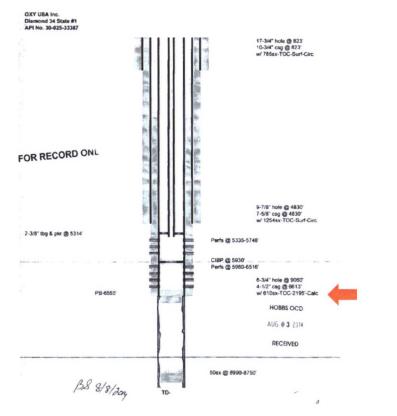
8/3/14: TOC reported as 2195' (C-103)

first report of cement top by Oxy in public files
calculated value assumes 100% placement

1/20/16: Oxy furnishes cement bond log, dated 8/19/1997, to

Devon (Requested 10/14/2015)
Estimated top of cement at 5165'
TOC is indicated by "good bond indicator" on log

(shaded section in CBL amplitude track).



Oil Conservation Division Case No. _____ Exhibit No. _____

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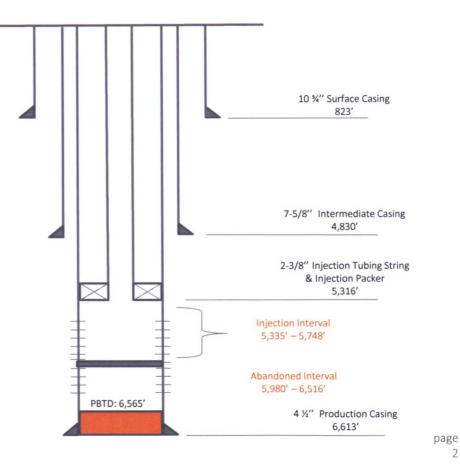
devon

Main Points Addressing Wellbore Integrity

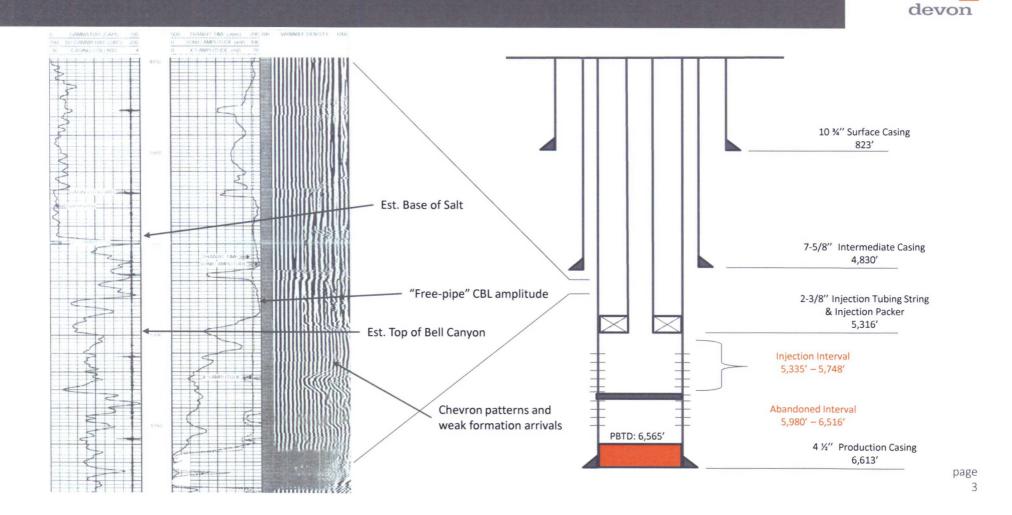
- 7-5/8" intermediate casing set above base of salt
- Bond log indicates presence of free pipe below 5100'
 - Chevron patterns and weak formation arrivals on VDL track indicate absence of cement coverage down to a depth of at least 5,115'
- Free pipe section includes both Base of Salt (5,044) & Top of Bell Canyon formation (5,098')
- Cement coverage does not extend to intermediate casing shoe, cover the top of the permitted injection zone, or cover the base of the salt section

Based on these Facts:

- Lack of cement bond behind production casing establishes conduit for fluid flow between permitted injection zone and base of salt section
- High likelihood of washouts in salt section provides additional path for vertical fluid migration behind intermediate casing



devon



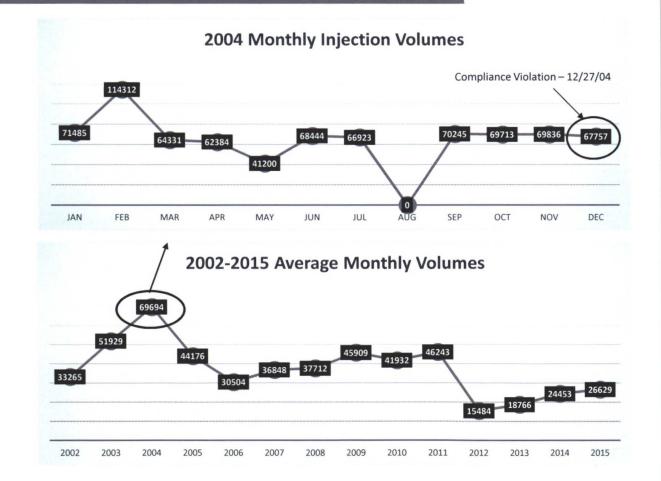
3

Facts:

- Overpressure compliance violation cited in December, where reported volumes were similar to average volumes injected throughout the year (NMOCD record)
- Reported monthly injection volumes in 2004 greatly exceeded average injection volumes of any other year since 2002
- As late as September 2015, Oxy continued to inject above permitted pressures (ref: Oxy-257)

Based on these facts:

- Fracture gradient likely was exceeded, which could have established a vertical path into the production casing annulus
- This far-wellbore path would be unidentifiable by RA-tracer survey data if communication was established beyond the tool's depth of investigation



devon

devon

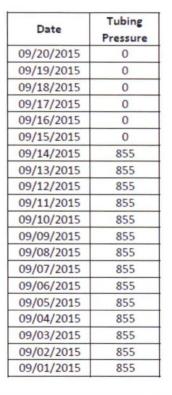
From:	Keith_Sevin@oxy.com
Sent:	Thursday, September 17, 2015 4:16 PM
To:	Sebastian_Millan@oxy.com
Cc:	Van_Barton@oxy.com; Charles_Wagner@oxy.com; Gary_Morrison@oxy.com
	Donna_Havins@oxy.com; Laura_Drum@oxy.com; Thomas_Clifford@oxy.com
	Keith_Murphy@oxy.com
Subject:	Re: Devon well offset to our Diamond 34 State 1

All - Thoughts/recommendations?

Sent from my iPhone

On Sep 17, 2015, at 1:58 PM, "Millan, Sebastian" <<u>Sebastian_Millan@oxy.com</u>> wrote:

	4
> As per my previous note we were injecting above the permitted pressure > as the Diamond 34 State 1 sourchs 35.00 bit of fluid are down an area to > as the Diamond 34 State 1 sourchs 35.00 bit of fluid area down and a state of the stat	Statement of the local division of the local
> on the Diamond 34 State 1 roughly 2500 bbl of fluid per day, we expect > to be able to put down close to 1100 BWPD after the workover is	
> finished, so if we decide to keep the well shut until Devon finishes	
> their new well we would be looking at a total trucking cost of around > 60M Thanks and best regards, Sebastian	
> built manks and best regards, sebastian	
> Sebastian Millan	
> Leader Production Ops Engineer	
> Permian Resources Delaware	
> Direct: (713) 350 - 4950	
> Mobile: (832) 528 - 3268	
>Sebastian_Millan@oxy.com <mailto:sebastian_millan@oxy.com></mailto:sebastian_millan@oxy.com>	
>	
>	
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> <picture (device="" bitmap)="" independent=""></picture>	



NMOCD CASE NO. 15397: OXY-442

² NMOCD CASE NO. 15397: OXY-357

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devon

Remarks

NMOCD CASE NO.

15397:

OXY-443

NMOCD CASE

NO

15397:

OXY

-446

NMOCD

CASE

NO.

15397: OXY-450

9/09/15 DIAMOND 34-1 KEY 172 BEN SANCHEZ DC: 4,878 CC: 4,878 ROAD PULLING UNIT FROM THE VILLA A 2H TO LOCATION. HTGSM AND HAZARD HUNT SPOTTED IN THE PULLING UNIT AND REVERSE EQUIPMENT RIGGED UP OVER THE WELL. TUBING AND CASING WERE EQUALIZED AT 480 PSI. OPENED THE CASING TO THE FRAC TANK AND TRIED TO BLEED DOWN, TUBING AND CASING BOTH DROPPED 10 PSI TO 470 PSI. CLOSED CASING VALVE AND BOTH TUBING AND CASING EQUALIZED. SECURED THE WELL AND SHUT DOWN FOR THE DAY.

9/11/15 DIAMOND 34-1 KEY 172 MARIO P SANCHEZ DC: 9254 CC: 14,132.00 ARRIVED ON LOCATION TGSM HAZARD HUNT TP- 400PSI CP- 600PSI RIGGED UP RENAGADE SLICKLINE RIH DID VARIUS GAUGE RUNS TO TRY AND DETERMINE PROFILE SIZE TO SET A BLANKING PLUG SET A 1.56 PLUG AND TRIED TO PRESSURE TEST TUBING COULD NOT GET A TEST SEEMED PUMPING PAST PLUG @ 1 BBL/MIN 1000PSI AND NOT COMMUNICATING TO CASING RETRIEVIED PLUG AND RIH WITH A 1.43" BLANKING PLUG SET IT AND TRIED TO TEST AGAIN SAME THING HAPPNED RETRIEVED PLUG RIGGED DOWN SLICKLINE SECURED WELL AND RIG SHUT DOWN FORCAST 9-14-15 SHOT HOLES IN TBG PUMP MUD WELL CONTROL NIPPLE UP BOP POOH SCANNING TUBING

9/15/15 DIAMOND 34-1 KEY 172 BEN SANCHEZ DC: 10,760

CC: 31,419 ROAD CREW TO LOCATION HTGSM AND HAZARD HUNT. WELL HAD 400 PSI ON THE TUBING AND 500 PSI ON THE CASING. PUMPED 20 BBL OF 14 POUND MUD DOWN THE CASING AND 9 BBLS DOWN THE TUBING FOR WELL CONTROL. FUNCTION TESTED B.O.P. NIPPLED DOWN WELLHEAD AND NIPPLED UP B.O.P. FOUND PACKER FREE W RIGGED UP STEALTH TUBING SCANNER. PULLED AND SCANNED 2-3/8" IPC TUBING OUT OF THE HOLE. SCANNED A TOTAL OF 166 JOINTS FOUND 166 YELLOW 1 GREEN AND 1 RED. PACKER LOOKED TO BE IN GOOD CONDITION FOUND SLICK LINE WIRE INSIDE THE PROFILE NIPPLE. SECURED THE WELL AND SHUT DOWN FOR THE DAY.

Date	Tubing	
Date	Pressure	
09/20/2015	0	
09/19/2015	0	
09/18/2015	0	
09/17/2015	0	
09/16/2015	0	
09/15/2015	0	
09/14/2015	855	
09/13/2015	855	
09/12/2015	855	
09/11/2015	855	
09/10/2015	855	
09/09/2015	855	
09/08/2015	855	
09/07/2015	855	
09/06/2015	855	
09/05/2015	855	
09/04/2015	855	
09/03/2015	855	
09/02/2015	855	
09/01/2015	855	

Table

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