

Timeline on RA Tracer Slugs & Channel Checks

From: aarellano@renegadewls.com
Sent: Thursday, February 25, 2016 7:13 PM
To: Clifford, Thomas P
Cc: Matt Gray, Jr Fuentes
Subject: SLUG TIMELINE

Here it is. Let me know what else you need on it!

RADIOACTIVE IODIDE SURVEY TIMELINE FOR SLUG EJECTION

FORMAT: TIME - PURPOSE - DEPTH - SLUG STRENGTH

DECEMBER 17TH 2015

4:33 PM - TRACER SLUG FOR ZONES OF INJECTION (FOLLOWED DOWN TO 5570') - 5200' - 2.5 MCI
 5:10 PM - SLUG FOR SLOW RATE CALCULATION - 5543' - .375 MCI
 5:10 PM - SLUG FOR SLOW RATE CALCULATION - 5563' - .375 MCI
 5:24 PM - VELOCITY SHOT FOR RATE CALCULATION - 5540' - .25 MCI
 5:26 PM - VELOCITY SHOT FOR RATE CALCULATION - 5530' - .25 MCI
 5:28 PM - VELOCITY SHOT FOR RATE CALCULATION - 5520' - .25 MCI
 5:44 PM - CHANNEL CHECK - 5510' - 3.5 MCI
 6:28 PM - VELOCITY SHOT FOR RATE CALCULATION - 5000' - .25 MCI
 6:28 PM - VELOCITY SHOT FOR RATE CALCULATION - 5460' - .25 MCI
 6:29 PM - VELOCITY SHOT FOR RATE CALCULATION - 5450' - .25 MCI
 6:29 PM - VELOCITY SHOT FOR RATE CALCULATION - 5440' - .25 MCI
 6:30 PM - VELOCITY SHOT FOR RATE CALCULATION - 5530' - .25 MCI
 6:40 PM - CHANNEL CHECK - 5400' - 3.5 MCI
 6:50 PM - PACKER CHECK - 5300' - .25 MCI
 6:53 PM - DROP CHECK - 5000' - .25 MCI
 7:31 PM - CHANNEL CHECK (NO TRACE OF ANY PREVIOUS RA) - 4830' - 3.5 MCI
 8:40 PM - DRAG RUN CHANNEL CHECK UP HOLE - 5430' - 5 MCI

DECEMBER 18TH 2015

9:25 AM - DRAG RUN CHANNEL CHECK UP HOLE / VERIFY ZONES OF INJECTION - 5340' - 6 MCI
 9:34 AM - CHANNEL CHECK - 5500' - 6 MCI
 9:51 AM - CHANNEL CHECK - 5340' - 6 MCI

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Date	Time	RA Count (MCI)	Cumulative RA Count (MCI)	Depth	Comment
12/17/2015	4:33 PM	2.5	2.5	5200'	Tracer Slug for Zones of Injection (Followed Down to 5570')
12/17/2015	5:10 PM	0.375	2.875	5543'	Slug for Slow Rate Calculation
12/17/2015	5:10 PM	0.375	3.25	5563'	Slug for Slow Rate Calculation
12/17/2015	5:24 PM	0.25	3.5	5540'	Velocity Shot for Rate Calculation
12/17/2015	5:26 PM	0.25	3.75	5530'	Velocity Shot for Rate Calculation
12/17/2015	5:28 PM	0.25	4	5520'	Velocity Shot for Rate Calculation
12/17/2015	5:44 PM	3.5	7.5	5510'	Channel Check
12/17/2015	6:28 PM	0.25	7.75	5000'	Velocity Shot for Rate Calculation
12/17/2015	6:28 PM	0.25	8	5460'	Velocity Shot for Rate Calculation
12/17/2015	6:29 PM	0.25	8.25	5450'	Velocity Shot for Rate Calculation
12/17/2015	6:29 PM	0.25	8.5	5440'	Velocity Shot for Rate Calculation
12/17/2015	6:30 PM	0.25	8.75	5530'	Velocity Shot for Rate Calculation
12/17/2015	6:40 PM	3.5	12.25	5400'	Channel Check
12/17/2015	6:50 PM	0.25	12.5	5300'	Packer Check
12/17/2015	6:53 PM	0.25	12.75	5000'	Drop Check
12/17/2015	7:31 PM	3.5	16.25	4830'	Channel Check (No Trace of Any Previous RA)
12/17/2015	8:40 PM	5	21.25	5430'	Drag Run Channel Check Up Hole
12/18/2015	9:25 AM	6	27.25	5340'	Drag Run Channel Check Up Hole / Verify Zones of Injection
12/18/2015	9:34 AM	6	33.25	5500'	Channel Check
12/18/2015	9:51 AM	6	39.25	5340'	Channel Check

BEFORE THE OIL CONVERSION DIVISION

Santa Fe, New Mexico
 Exhibit No. 12
 Submitted by: OXY USA Inc.
 Hearing Date: March 29, 2016