



WRL-08-TLS-100-L2-1

FIELD HYDROSTATIC TEST REPORT (C-7.a)

Project DP-103 AFE/Work Order No. CO-16009Pipeline DP-103 OIL T6N,R63W,6TH,PM
(Name) (Location)Testing Contractor AllAround
(Name) (Contract No.)

(Address) (Phone No.)

Construction Contractor AllAround
(Name) (Contract No.)

(Address) (Phone No.)

Pipe O.D. 8.625 Wall thickness .322 Grade X52 MFG'R: _____Test Fluid Water Frac Tanks
(Type) (Source) (Temperature)Additive Biocide 10Gallons
(Type) (Quantity)Section Tested No. _____ From: 0+00 To: 70+00 Volume: 437BarrelsPump Location: 70+00 Pump No. _____ Gal./Stroke _____Crystal Tester Location: 70+00 MFG'R: Crystal S/N 680188

Time	Pressure PSIG	Ambient Temp.
5:15	500lbs	33
5:33	704lbs	33
5:50	852lbs	33
6:52	1005lbs	33
7:30	1006lbs	34
8:00	1006lbs	33
8:30	1007lbs	34
9:00	1007lbs	35
9:30	1008lbs	35
10:00	1008lbs	36
10:30	1009lbs	36

Time	Pressure PSIG	Ambient Temp.
11:00	1010lbs	36
11:30	1010lbs	36
12:00	1011lbs	37
12:30	1011lbs	37
1:00	1011lbs	37
1:30	1012lbs	37
2:00	1012lbs	37
2:30	1013lbs	37
3:00	1013lbs	37

Time	Pressure PSIG	Ambient Temp.

Strokes per 10 PSIG: First 100 PSIG _____ Last 100 PSIG _____

Test Started 6:52AM AM/PM 11/29/16 Test Ended 3:00PM AM/PM 11/29/16
(Time) (Date) (Time) (Date)Section Accepted: yes Section Leaking: no Section Ruptured: NO

Location and Type of Failure: _____

Remarks: _____

Weather: Overcast and cold

Testing Contractor's

Representative Tim Buschmann Tester 11/29/16
(Name) (Title) (Signature) (Date)

Constr. Contractor's

Representative Chris Bond Superintendent 11/29/16
(Name) (Title) (Signature) (Date)



FIELD HYDROSTATIC TEST REPORT (C-7.a)

Company _____

Representative Robert Smith Inspector *Robert Smith* 11/29/16
(Name) (Title) (Signature) (Date)

Construction
Superintendent _____
(Name) (Title) (Signature) (Date)

	Chassis	Lower Module	Upper Module	BARO Module	Left Scale	Right Scale
Serial Number	572576	680188	681015		680188	681015
Model	NV	10KPSI	RTD100			
Message Store						
Userspan		1.00000	1.00000			
Offset						
Datatype						
Units		PSI G	°F		Lower PSI G	Upper °F
Tare						
Average						
User Factor						
User Offset						
User Resolution						
Firmware Version	R080015	R090009	R100006			
Calibration Due		20-Jan-17	2-Feb-17			
Run Index	1					
Run Start Time			29-Nov-16/04:58:53			
Run Duration			10 hours 9 minutes			
Run Tag			DP103 Oil			
Logging Interval	60.0					

Data Points			
Point #	Time	Left - PSI G	Right - °F
1	00:00:00.0	0	-22.97
2	00:01:00.0	503	27.09
3	00:02:00.0	502	33.95
4	00:03:00.0	502	34.96
5	00:04:00.0	502	35.22
6	00:05:00.0	502	35.06
7	00:06:00.0	502	35.10
8	00:07:00.0	502	35.10
9	00:08:00.0	502	35.26
10	00:09:00.0	502	35.37

85	01:24:00.0	852	36.19
86	01:25:00.0	852	36.01
87	01:26:00.0	852	36.15
88	01:27:00.0	852	36.04
89	01:28:00.0	852	36.15
90	01:29:00.0	852	36.51
91	01:30:00.0	852	36.52
92	01:31:00.0	852	36.53
93	01:32:00.0	852	36.07
94	01:33:00.0	852	35.90
95	01:34:00.0	852	36.13
96	01:35:00.0	852	36.16
97	01:36:00.0	852	36.31
98	01:37:00.0	852	36.18
99	01:38:00.0	852	36.15
100	01:39:00.0	852	36.08
101	01:40:00.0	852	36.04
102	01:41:00.0	852	36.18
103	01:42:00.0	852	36.04
104	01:43:00.0	852	36.05
105	01:44:00.0	852	36.01
106	01:45:00.0	852	36.00
107	01:46:00.0	852	36.02
108	01:47:00.0	852	35.98
109	01:48:00.0	852	36.03
110	01:49:00.0	852	36.07
111	01:50:00.0	852	36.11
112	01:51:00.0	852	36.53
113	01:52:00.0	890	36.83
114	01:53:00.0	1008	37.24
115	01:54:00.0	1006	36.20
116	01:55:00.0	1005	34.97
117	01:56:00.0	1006	34.51
118	01:57:00.0	1005	34.34
119	01:58:00.0	1006	34.20
120	01:59:00.0	1005	34.05
121	02:00:00.0	1006	34.05

159	02:38:00.0	1006	33.91
160	02:39:00.0	1006	33.89
161	02:40:00.0	1006	33.92
162	02:41:00.0	1006	33.94
163	02:42:00.0	1006	33.94
164	02:43:00.0	1006	33.93
165	02:44:00.0	1006	33.92
166	02:45:00.0	1006	33.94
167	02:46:00.0	1006	33.97
168	02:47:00.0	1006	34.03
169	02:48:00.0	1006	34.09
170	02:49:00.0	1006	34.04
171	02:50:00.0	1006	34.09
172	02:51:00.0	1006	34.11
173	02:52:00.0	1006	34.21
174	02:53:00.0	1006	34.22
175	02:54:00.0	1006	34.16
176	02:55:00.0	1006	34.13
177	02:56:00.0	1006	34.15
178	02:57:00.0	1006	34.21
179	02:58:00.0	1006	34.26
180	02:59:00.0	1006	34.23
181	03:00:00.0	1006	34.26
182	03:01:00.0	1006	34.25
183	03:02:00.0	1006	34.28
184	03:03:00.0	1006	34.31
185	03:04:00.0	1006	34.29
186	03:05:00.0	1006	34.32
187	03:06:00.0	1006	34.36
188	03:07:00.0	1006	34.38
189	03:08:00.0	1006	34.34
190	03:09:00.0	1006	34.34
191	03:10:00.0	1006	34.34
192	03:11:00.0	1006	34.47
193	03:12:00.0	1007	34.49
194	03:13:00.0	1006	34.39
195	03:14:00.0	1006	34.44

233	03:52:00.0	1007	35.26
234	03:53:00.0	1007	35.41
235	03:54:00.0	1007	35.54
236	03:55:00.0	1007	35.36
237	03:56:00.0	1007	35.13
238	03:57:00.0	1007	35.13
239	03:58:00.0	1007	35.31
240	03:59:00.0	1007	35.51
241	04:00:00.0	1007	35.45
242	04:01:00.0	1007	35.46
243	04:02:00.0	1007	35.58
244	04:03:00.0	1007	35.45
245	04:04:00.0	1007	35.53
246	04:05:00.0	1007	35.59
247	04:06:00.0	1008	35.67
248	04:07:00.0	1007	35.51
249	04:08:00.0	1008	35.41
250	04:09:00.0	1007	35.50
251	04:10:00.0	1008	35.43
252	04:11:00.0	1007	35.43
253	04:12:00.0	1007	35.34
254	04:13:00.0	1008	35.54
255	04:14:00.0	1008	35.54
256	04:15:00.0	1008	35.43
257	04:16:00.0	1008	35.44
258	04:17:00.0	1008	35.49
259	04:18:00.0	1008	35.49
260	04:19:00.0	1008	35.62
261	04:20:00.0	1008	35.98
262	04:21:00.0	1008	36.06
263	04:22:00.0	1008	35.82
264	04:23:00.0	1008	35.89
265	04:24:00.0	1008	35.80
266	04:25:00.0	1008	35.87
267	04:26:00.0	1008	35.87
268	04:27:00.0	1008	35.78
269	04:28:00.0	1008	35.83

307	05:06:00.0	1009	36.85
308	05:07:00.0	1009	36.67
309	05:08:00.0	1009	36.83
310	05:09:00.0	1009	36.99
311	05:10:00.0	1009	36.97
312	05:11:00.0	1009	36.62
313	05:12:00.0	1009	36.63
314	05:13:00.0	1009	36.76
315	05:14:00.0	1009	36.84
316	05:15:00.0	1009	36.83
317	05:16:00.0	1009	36.75
318	05:17:00.0	1009	36.96
319	05:18:00.0	1009	36.88
320	05:19:00.0	1009	36.83
321	05:20:00.0	1009	36.76
322	05:21:00.0	1009	36.73
323	05:22:00.0	1009	36.75
324	05:23:00.0	1009	36.72
325	05:24:00.0	1009	36.57
326	05:25:00.0	1009	36.93
327	05:26:00.0	1009	37.00
328	05:27:00.0	1009	36.86
329	05:28:00.0	1009	36.86
330	05:29:00.0	1009	36.70
331	05:30:00.0	1009	36.64
332	05:31:00.0	1009	36.48
333	05:32:00.0	1009	36.42
334	05:33:00.0	1009	36.63
335	05:34:00.0	1009	36.75
336	05:35:00.0	1009	36.88
337	05:36:00.0	1009	36.97
338	05:37:00.0	1009	36.88
339	05:38:00.0	1009	36.92
340	05:39:00.0	1009	36.97
341	05:40:00.0	1009	37.16
342	05:41:00.0	1009	37.17
343	05:42:00.0	1009	37.14

381	06:20:00.0	1010	37.59
382	06:21:00.0	1010	37.57
383	06:22:00.0	1010	37.82
384	06:23:00.0	1010	38.14
385	06:24:00.0	1010	38.34
386	06:25:00.0	1010	38.22
387	06:26:00.0	1010	38.06
388	06:27:00.0	1010	38.40
389	06:28:00.0	1010	38.60
390	06:29:00.0	1010	38.47
391	06:30:00.0	1010	38.12
392	06:31:00.0	1010	37.95
393	06:32:00.0	1010	37.90
394	06:33:00.0	1010	37.95
395	06:34:00.0	1010	38.16
396	06:35:00.0	1010	38.28
397	06:36:00.0	1010	38.25
398	06:37:00.0	1010	38.25
399	06:38:00.0	1010	38.39
400	06:39:00.0	1010	38.24
401	06:40:00.0	1010	38.59
402	06:41:00.0	1010	38.76
403	06:42:00.0	1010	38.94
404	06:43:00.0	1010	39.07
405	06:44:00.0	1010	38.91
406	06:45:00.0	1010	38.70
407	06:46:00.0	1010	38.91
408	06:47:00.0	1010	38.71
409	06:48:00.0	1010	38.55
410	06:49:00.0	1010	38.73
411	06:50:00.0	1010	38.69
412	06:51:00.0	1010	38.82
413	06:52:00.0	1010	38.93
414	06:53:00.0	1010	38.80
415	06:54:00.0	1010	38.90
416	06:55:00.0	1010	38.81
417	06:56:00.0	1010	38.67

455	07:34:00.0	1011	37.41
456	07:35:00.0	1011	37.40
457	07:36:00.0	1011	37.31
458	07:37:00.0	1011	37.25
459	07:38:00.0	1011	37.21
460	07:39:00.0	1011	37.32
461	07:40:00.0	1011	37.31
462	07:41:00.0	1011	37.50
463	07:42:00.0	1011	37.39
464	07:43:00.0	1011	37.28
465	07:44:00.0	1011	37.41
466	07:45:00.0	1011	37.29
467	07:46:00.0	1011	37.26
468	07:47:00.0	1011	37.37
469	07:48:00.0	1011	37.29
470	07:49:00.0	1011	37.36
471	07:50:00.0	1011	37.36
472	07:51:00.0	1011	37.28
473	07:52:00.0	1011	37.37
474	07:53:00.0	1011	37.52
475	07:54:00.0	1011	37.64
476	07:55:00.0	1011	37.92
477	07:56:00.0	1011	37.82
478	07:57:00.0	1011	37.76
479	07:58:00.0	1011	37.86
480	07:59:00.0	1012	38.09
481	08:00:00.0	1011	38.22
482	08:01:00.0	1012	37.91
483	08:02:00.0	1012	37.84
484	08:03:00.0	1012	37.78
485	08:04:00.0	1012	37.83
486	08:05:00.0	1012	37.99
487	08:06:00.0	1011	37.88
488	08:07:00.0	1012	37.73
489	08:08:00.0	1011	37.79
490	08:09:00.0	1012	38.08
491	08:10:00.0	1012	37.90

529	08:48:00.0	1012	38.90
530	08:49:00.0	1012	38.98
531	08:50:00.0	1012	38.78
532	08:51:00.0	1012	38.63
533	08:52:00.0	1012	38.80
534	08:53:00.0	1012	38.81
535	08:54:00.0	1012	38.79
536	08:55:00.0	1012	38.75
537	08:56:00.0	1012	38.45
538	08:57:00.0	1012	38.43
539	08:58:00.0	1012	38.29
540	08:59:00.0	1012	38.38
541	09:00:00.0	1012	38.22
542	09:01:00.0	1012	38.07
543	09:02:00.0	1012	37.88
544	09:03:00.0	1012	37.77
545	09:04:00.0	1012	37.79
546	09:05:00.0	1012	37.86
547	09:06:00.0	1012	37.83
548	09:07:00.0	1012	37.97
549	09:08:00.0	1013	38.10
550	09:09:00.0	1013	38.13
551	09:10:00.0	1013	38.22
552	09:11:00.0	1013	38.14
553	09:12:00.0	1012	38.12
554	09:13:00.0	1012	38.26
555	09:14:00.0	1013	38.17
556	09:15:00.0	1013	38.22
557	09:16:00.0	1013	38.17
558	09:17:00.0	1012	38.26
559	09:18:00.0	1013	38.23
560	09:19:00.0	1013	38.11
561	09:20:00.0	1013	37.95
562	09:21:00.0	1013	37.87
563	09:22:00.0	1013	37.86
564	09:23:00.0	1013	37.85
565	09:24:00.0	1013	37.87

603	10:02:00.0	1013	37.51
604	10:03:00.0	916	37.49
605	10:04:00.0	771	37.40
606	10:05:00.0	644	37.55
607	10:06:00.0	533	37.74
608	10:07:00.0	440	37.79
609	10:08:00.0	380	37.82
610	10:09:00.0	104	37.86

Certificate of Calibration

Calibrations comply with
ISO/IEC 17025:2005 and
ANSI NCSL Z540-1-1994



Device Information	
Module	10KPSI
Serial Number	680188
Water Column (@ 1 Atm)	4° C
Calibration Date	10 January 2016
Verification Date	20 January 2016
As Received Condition	New
As Left Condition	In Tolerance

Laboratory Conditions	
Laboratory ambient conditions throughout this calibration	
Temperature	19 to 23° C
Humidity	20 to 60% RH

Definitions

Temperature Measured temperature of Device Under Test (DUT) during data collection.
Reference Reading True value according to our reference standards.
Indicated Reading Displayed reading from test unit.
Condition Pass or Fail.
Difference Indicated reading minus reference reading.
Relative Difference (Difference / reference reading) x 100.
Allowable Tolerance ± according to manufacturer's specifications.
Pressure Medium Nitrogen.

Traceability Statement

Reference Standards used in this calibration are traceable to the National Institute of Standards and Technology of the United States (NIST) or other NMI.

System Expanded Uncertainty

System expanded uncertainty evaluation includes the calibration reference used and device under test and is calculated in accordance with ISO "Guide to the Expression of Uncertainty in Measurement" (GUM). The uncertainties reported represent expanded uncertainties using a coverage factor (k) to approximate a percentage (%) confidence level. In Tolerance or Pass conditions are based on test results falling within specified limits with no reduction by the uncertainty of the measurement. The results contained herein relate only to the item calibrated. Test methods defined by COI-054.

Coverage Factor (k)	2
Confidence Level (%)	~ 95

Traceable Reference Standards

Manufacturer	Calibration Reference Used	Serial Number	Report No.	Reference Cal. Due
DHI	PG7202 w/ 1 MPa/kg PC	875	1500189252-1	16 October 2017


Laboratory Representative

Troy Burns


Quality Representative

Bruce Hitt

Test Results

As Left Results - (From 0 to 400 Ohms) - Span multiplier: 1.00000							
Temperature (Celsius)	Reference Reading (Ohms)	Indicated Reading (Ohms)	Deviation (Ohms)	Relative Deviation (% of Reading)	Allowable Tolerance (Ohms)	Expanded Uncertainty (Ohms)	Condition
-20	0.000	0.00	0.000		0.020		Pass
-20	100.023	100.02	-0.003	-0.003	0.035	0.0065	Pass
-20	200.275	200.28	0.005	0.002	0.050	0.0070	Pass
-20	398.577	398.58	0.003	0.001	0.080	0.0087	Pass
10	0.000	0.00	0.000		0.020		Pass
10	100.023	100.02	-0.003	-0.003	0.035	0.0065	Pass
10	200.275	200.27	-0.005	-0.002	0.050	0.0070	Pass
10	398.577	398.58	0.003	0.001	0.080	0.0087	Pass
20	0.000	0.00	0.000		0.020		Pass
20	100.023	100.02	-0.003	-0.003	0.035	0.0065	Pass
20	200.274	200.27	-0.004	-0.002	0.050	0.0070	Pass
20	398.575	398.57	-0.005	-0.001	0.080	0.0087	Pass
30	0.000	0.00	0.000		0.020		Pass
30	100.023	100.02	-0.003	-0.003	0.035	0.0065	Pass
30	200.275	200.28	0.005	0.002	0.050	0.0070	Pass
30	398.578	398.59	0.012	0.003	0.080	0.0087	Pass
50	0.000	0.00	0.000		0.020		Pass
50	100.022	100.02	-0.002	-0.002	0.035	0.0065	Pass
50	200.278	200.28	0.002	0.001	0.050	0.0070	Pass
50	398.584	398.59	0.006	0.002	0.080	0.0087	Pass
Manufacturer's specifications: 0% to 100% of Full Scale: $\pm(0.015\%$ of Reading + 0.02 Ohms)							

Certificate of Calibration

Calibrations comply with
ISO/IEC 17025:2005 and
ANSI NCSL Z540-1-1994



Device Information	
Module	RTD100
Serial Number	681015
Calibration Date	02 February 2016
Verification Date	02 February 2016
As Received Condition	New
As Left Condition	In Tolerance

Laboratory Conditions	
Laboratory ambient conditions throughout this calibration	
Temperature	19 to 23° C
Humidity	20 to 60% RH

Definitions

Temperature Measured temperature of Device Under Test (DUT) during data collection.
Reference Reading True value according to our reference standards.
Indicated Reading Displayed reading from test unit.
Condition Pass or Fail.
Difference Indicated reading minus reference reading.
Relative Difference (Difference / reference reading) x 100.
Allowable Tolerance ± according to manufacturer's specifications.

Traceability Statement

Reference Standards used in this calibration are traceable to the National Institute of Standards and Technology of the United States (NIST) or other NMI.

System Expanded Uncertainty

System expanded uncertainty evaluation includes the calibration reference used and device under test and is calculated in accordance with ISO "Guide to the Expression of Uncertainty in Measurement" (GUM). The uncertainties reported represent expanded uncertainties using a coverage factor (k) to approximate a percentage (%) confidence level. *In Tolerance* or *Pass* conditions are based on test results falling within specified limits with no reduction by the uncertainty of the measurement. The results contained herein relate only to the item calibrated. Test methods defined by COI-054.

Coverage Factor (k)	2
Confidence Level (%)	~ 95

Traceable Reference Standards				
Manufacturer	Calibration Reference Used	Serial Number	Report No.	Reference Cal. Due
HP	3458A Digital Multimeter (Ohm)	2823A18277	65076	18 June 2016


Laboratory Representative

Troy Burns


Quality Representative

Bruce Hitt

IDENTIFICATION		VALVE DATA		MATERIAL/DESIGN		ORIGINAL NAMEPLATE DATA																																					
CUST ID # LOC MFG Mercer TYPE NO 91-17D51T13LI SERIAL NO 1072273 ORIFICE D INLET 1 in MNPT OUTLET 1 in FNPT PREVIOUS R.O. P.I.D.		<table style="width:100%; border-collapse: collapse;"> <tr> <th></th> <th style="text-align: center;">Current</th> <th style="text-align: center;">Required</th> </tr> <tr> <td>SET PRESS</td> <td style="text-align: center;">1000</td> <td style="text-align: center;">1260</td> </tr> <tr> <td>BACK PRESS</td> <td style="text-align: center;">Atm.</td> <td style="text-align: center;">Atm.</td> </tr> <tr> <td>C.D. PRESS</td> <td style="text-align: center;">1000</td> <td style="text-align: center;">1260</td> </tr> <tr> <td>TEMP</td> <td style="text-align: center;">Amb.</td> <td style="text-align: center;">Amb.</td> </tr> <tr> <td>BLOWDOWN</td> <td style="text-align: center;">Fixed</td> <td style="text-align: center;">Fixed</td> </tr> <tr> <td>CAPACITY</td> <td style="text-align: center;">109 gpm</td> <td style="text-align: center;">123 109</td> </tr> <tr> <td>MEDIA</td> <td style="text-align: center;">Liquid</td> <td style="text-align: center;">Liquid</td> </tr> <tr> <td colspan="3">VALVE CONVERSION No</td> </tr> <tr> <td>CODE STAMP</td> <td style="text-align: center;">UV</td> <td></td> </tr> <tr> <td></td> <td style="text-align: center;">NB</td> <td></td> </tr> <tr> <td></td> <td style="text-align: center;">ASME</td> <td></td> </tr> </table>			Current	Required	SET PRESS	1000	1260	BACK PRESS	Atm.	Atm.	C.D. PRESS	1000	1260	TEMP	Amb.	Amb.	BLOWDOWN	Fixed	Fixed	CAPACITY	109 gpm	123 109	MEDIA	Liquid	Liquid	VALVE CONVERSION No			CODE STAMP	UV			NB			ASME		Conventional BASE: C.S. BODY: C.S. TRIM: S.S. SPRING: S.S. CAP & LEVER: Closed COMPLETED BY Hotchkiss, DATE 8/30/2016		TYPE 91-17D51T13LI SET PRESS 1000 BACK PRE N.O.T. C.D. PRESS N.O.T. TEMP 70° f CAP. 109 gpm BLOWDOWN N.O.T. MANUFACTURED CODE STAMP UV NB ASME	
	Current	Required																																									
SET PRESS	1000	1260																																									
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WORK REQUIRED		PRELIMINARY TEST RESULTS		SPRING DATA CHECKED?		AS FOUND ADJ COMP SCREW																																					
Pretest × Reset Overhaul Warranty		TEST MEDIA NO TEST GAUGE S/N SET PRESSURE NO TEST CAL DUE BLOWDOWN NO TEST TESTED BY TIGHTNESS TEST DATE		Yes SPRING # 05-013 REPLACE No		LOWER ADJ RING UPPER ADJ RING OVERLAP COLLAR																																					
DISASSEMBLED BY:		DATE		INSPECTED BY:		DATE																																					
ITEM	AS FOUND CONDITION	WORK PERFORMED	INSPECTOR COMMENTS																																								
BONNET																																											
BODY																																											
INTERNAL PARTS																																											
Previous Repair Company:		R.O. Number:		Date:																																							
RECORD OF PARTS REQUIRED FOR REPAIR				FINAL ASSEMBLY ADJUSTMENT																																							
PART NUMBER	DESCRIPTION	P.O. #	COMPRESSION SCREW LOWER ADJUSTMENT RING UPPER ADJUSTMENT RING OVERLAP COLLAR ASSEMBLED BY: Hotchkiss, DATE 8/30/2016 DUPLICATE TAG INSTALLED Yes • No																																								
RECORD OF FINAL TEST RESULTS				RECORD OF FINAL ASSEMBLY																																							
TEST MEDIA Water	GAUGE S/N	ADJ LKD & SEALED Yes		If No VR Cert. is issued, Give Reason Below:																																							
SET PRESSURE 1260	CAL DUE 10/28/2016	NAMEPLATE INSTALLED Yes																																									
BLOWDOWN Fixed	TESTED BY Hotchkiss,	FINAL VR'D Yes																																									
TIGHTNESS Good	TEST DATE 8/30/2016	ASSEM. BY: Hotchkiss, Winchester		DATE 8/30/2016																																							



Inspector Daily Construction Log
D.O.T. 195.204

Date: 11/29/2016

Milepost #:

Report #:

General Information

Project Name: DP-103

Contractors: All Around

Spread: _____

Crew: Cottin/Mitchell/Robert

Man Hours Today: 12

Weather Conditions

Weather:	Cloudy	X	Rain	Snow	Wind	X	Other
Ground:	Dry	X	Mud	Frozen	Sand		Swamp
Terrain:	Flat	X	Hilly	Crops	Developed		Other
Soils:	Dirt	X	Shale	Rock	Sand		Clay

Construction Activity:

3:30AM Arrived at the yard for the safety meeting before we started test on the 8"oil line
5:30AM turned on crystal and let the 500lb sit
5:35AM pressured up to 704/ waited for 15 min
5:50AM pressured up to 852/ waited 1 hour with a leak check
6:52AM pressured to 1005lb and started the 8 hour test
3:00PM pressure was at 1013lb test was completed successfully (for a break down of pressures/ times / temps please se C7 form filled out in book
3:30PM finished blowing down pressure and left the ROW for the

Inspector: Robert Smith



Inspector Daily Construction Log D.O.T. 195.204

Date: 11/29/2016

Milepost #:

Report #:

General Information

Project Name: DP 103

Contractors: AA

Spread: 00+00-70+00

Crew: ALL

Man Hours Today: 12/ 140

Weather Conditions

Weather:	Cloudy	Rain	Snow	Wind	X	Other
Ground:	Dry	Mud	Frozen	Sand	X	Swamp
Terrain:	Flat X	Hilly	Crops	Developed		Other
Soils:	Dirt X	Shale	Rock	Sand	X	Clay

Construction Activity:

Met at AA yard at 4:00 AM covered days operations and safety awareness points for the day. Touched base with inspection crew and contractor headed to the ROW for the day.

Hydro tested 8" oil line today. Started 8 hour test at 6:52 AM at a test pressure of 1005 PSI outside temp 33 degrees. Completed test at 2:52 PM line stayed within test parameters and passed with no issues. Ran test for an additional 10 mins beyond the 8 hrs. just to be clear.

For further times details and pressures see Robert report.

Great day overall, great communication!

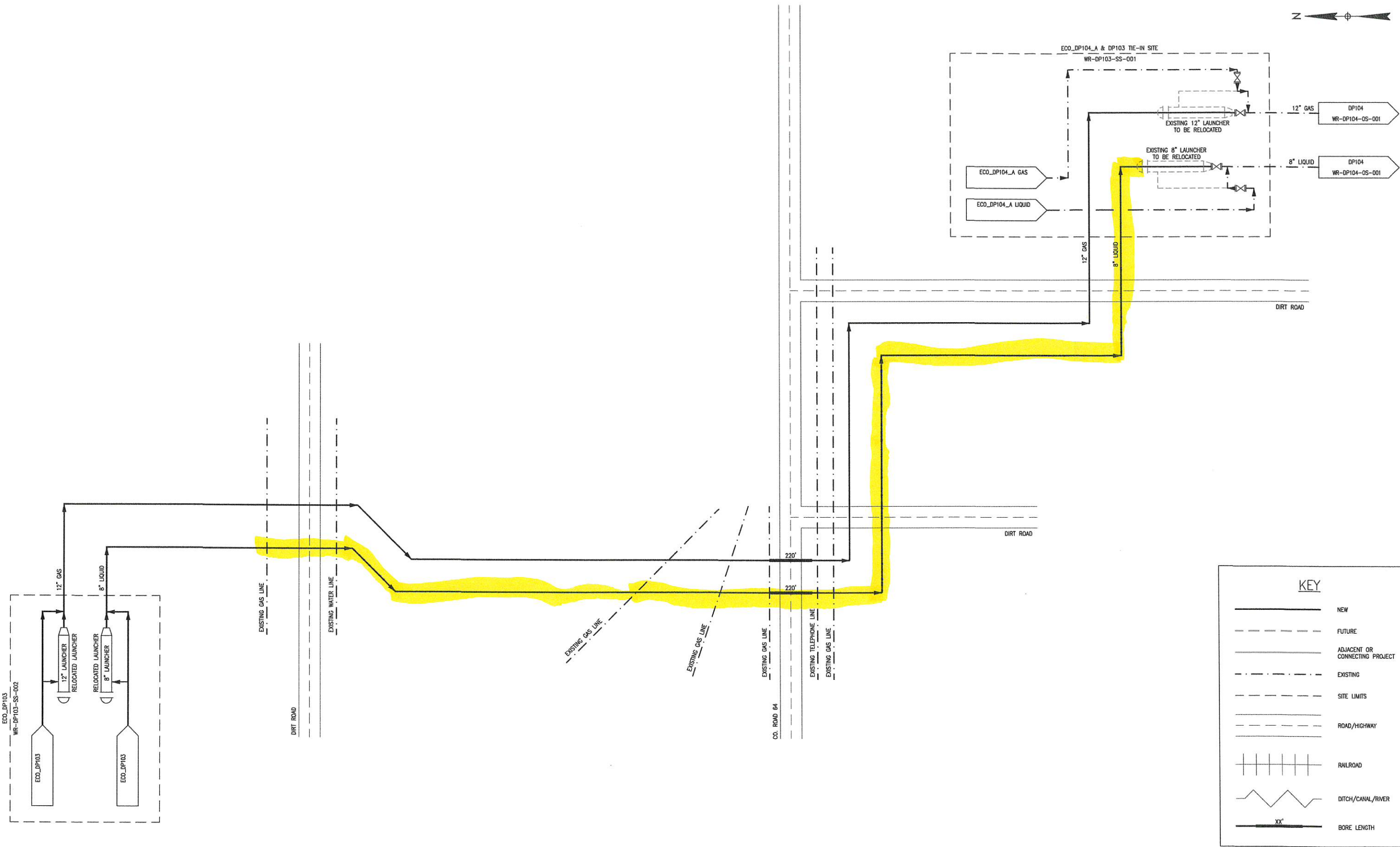
Inspector: Mitchell Bean
Inspector Name

Contractor: Chris Bond
Contractors Rep Name

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KEY

NEW

FUTURE

ADJACENT OR CONNECTING PROJECT

EXISTING

SITE LIMITS

ROAD/HIGHWAY









RAILROAD

DITCH/CANAL/RIVER

BORE LENGTH

XX'

PRELIMINARY

REFERENCE DRAWINGS		REVISIONS							APPROVALS			<div> WELLS RANCH GATHERING SYSTEM DP103 OPERATIONAL SCHEMATIC</div>			
										<div>DRAWN/DESIGNED</div>	SIGNATURE				DATE
										<div>CHECKED</div>					
										<div>APPROVED</div>					
			ISSUED FOR REVIEW		BPK	09/19/16	DAN	09/19/16		<div>CLIENT APPROVAL</div>					
			ISSUED FOR REVIEW - REVISED ALIGNMENT PER UPDATED SURVEY		PJB	01/22/16	DAN	01/22/16		<div>SIGNATURE</div>	DATE				
			ISSUED FOR REVIEW		PJB	01/11/16	DAN	01/11/16		<div>OPERATIONS</div>					
WR-DP103-SS-001	DP103 TIE-IN SITE TO DP104									<div>ENGINEERING</div>					
WR-DP103-SS-002	DP103 LAUNCHER SITE									<div>PROJ. MGR.</div>					
DWG NO.	DESCRIPTION	REV	DESCRIPTION	BY	DATE	CHK BY	CHK DATE	APR BY	APR DATE	SCALE: NTS			DRAWING: WR-DP103-OS-001	SHEET No. 1 of 1	

Noble DP103 - 8" Liquid Pipeline Hydrostatic Pressure Test Plan

North Test Location Parameters

Target Pressure: 1001 psig
Upper Bound Pressure: 1026 psig
Lower Bound Pressure: 976 psig
South Test Location Parameters
Target Pressure: 1004 psig
Upper Bound Pressure: 1029 psig
Lower Bound Pressure: 979 psig

Design Note: The test conditions detailed in this exhibit shall be performed and verified in order for the system to be rated for a Maximum Allowable Operating Pressure (MAOP) of 740 psig. This test is designed to comply with hydrostatic testing standards outlined in *API RP 1110*, *ASME B31.4*, and *ASME B16.5*.

Pipe Spec: 8.625" OD, 0.322" w.t., Grade B
Minimum Flange or Valve ANSI Rating: CL300 (740 psig)
Line Length: 7,047 feet
Water Volume: 437 US Oil Barrels

