



PART I - DESIGN DATA (TO BE PREPARED BY PROJECT ENGINEER)

Feeder Main Number, Line Number, or Station Name L-300A	Area 4	Division/District Kern	Job Number 41535680	Date Job Authorized September 18, 2011
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Description of Job -- Include Reference Drawing Numbers, and Pipeline Mileposts
Test 2 - Tie-in pieces, hydrostatic test piping and existing 34" L-300A. Existing pipeline material listed; ie. pipe, elbows, sleeves, are from the "Material of Record" (refer to Dwg 41535680, sheet 5 of 5) Rev. 1 (9-28) - Replace MLV 290.33 and Blowdown valves with 34" pipe.
 Hydrotest L-300A from MP 288.9604 - 291.4411 Bakersfield, CA (Test section 115)

Location Class 2	Design Factor (F) .6	MAOP to be Established for this Piping by this Test 757 PSIG	Future Design Pressure 757 PSIG
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STATIC HEAD DUE TO ELEVATION DIFFERENCE (WHERE APPLICABLE)	Max. Elevation	321 Ft.	Static Head Calculation For Water 0.433 X Elev. Diff. = 7.8 PSIG Other (Specify) _____ X Elev. Diff. = _____ PSIG
	Min. Elevation	303 Ft.	
	Elev. Diff.	18 Ft.	

Size		Pipe Specification		Footage to Be Tested	Pipe Spec. and Footage Verified In Field	% of SMYS			Pressure to Give 90% SMYS
O.D.	W.T.	API or ASTM Grade Long Seam (ERW, DSAW, Seamless, Etc.)				At MAOP	At Min. Test Press.	At Max. Test Press.	
34.00	.375	API 5L, X-65, DSAW (Item #100)		48'	72.8' DY	52.80	66.05	73.37	1291
34.00	.500	API 5L, X-65, DSAW (Item #102)		28'	19.36' DY	39.60	49.54	55.03	1721
34.00	.505	Elbow, Y-60 (Item #118)		4 ea.	DY	42.47	53.13	59.02	1604
34.00	.500	API 5L, X-46, DSAW (Item #2)		60'	MOR DY	55.95	70.00	77.76	1218
34.00	.344	API 5L, X-52, DSAW (Item #3)		12643'	12661' DY	71.94	90.00	99.98	947
34.00	.505	API 5L X60 DSAW			32.26' DY	42.47	53.13	59.02	1604

Minimum Test Pressure @ Max. Elevation	947 PSIG	Test Fluid To Be Used WATER	MINIMUM TEST DURATION - UNDER 30% SMYS (1 HR. MINIMUM) - 30% SMYS & OVER (8 HRS. MINIMUM) - PREINSTALLATION TEST (SEE ATTACHMENT 'A', GAS STD. A-34)	8 HOURS
Maximum Test Pressure @ Min. Elevation	1052 PSIG			

Redacted
 For Information or Changes, Call: **Mark Cabral (925) 588-3640**
 Approved By: *Mark Cabral* Date: **9-28-11**

PART II - TEST DATA (TO BE PREPARED BY PERSON SUPERVISING TEST AT TIME OF TEST)

Note: Minimum test pressure and duration are not to be changed without written approval.

Time and Date Test Pressure Reached	10:05 AM 10/5/11	Elevation at Test Point	305 FT	Min. Required Test Press. At Test Point (1)	954 PSIG	Max. Allowable Test Press at Test Point (4)	1051 PSIG
Time and Date Test Ended	6:45 PM 10/5/11	Max. Elevation in Test Section	321 FT	Min. Indicated Test Pressure (2)	968 PSIG	Max. Indicated Test Pressure (5)	1039 PSIG
Actual Duration of Test	8hr. 40min	Min. Elevation in Test Section	303 FT	Min. Test Pressure at Max. Elevation (3)	961 PSIG	Max. Test Pressure at Min. Elevation (6)	1040 PSIG

Test Fluid Used: **Water** Pipe: **Redacted**

Make, Range, and Serial No. of Pressure Recording Gauge	Date Last Calibrated	Make, Range, and Serial No. of Dead Weight Tester (See Note 7)	Date Last Calibrated
Barton, 0-3000#, 624086	6/17/11	Chandler, 50-3060#, 5198	6/17/11

Redacted
 Approved By: *John M...* Date: **10-13-11**

PUT SCHEMATIC PIPING SKETCH ON BACK OF THIS SHEET
 SHOW LOCATION OF FACILITY TESTED, MINIMUM AND MAXIMUM ELEVATION IN FEET, MILE POINTS, VALVE NUMBERS AND INCORPORATED AREAS. USE AN ADDITIONAL SHEET IF NECESSARY (SHOW REFERENCE NUMBERS ON FACE OF ALL DRAWINGS AND ATTACHMENTS). FOR STATION PIPING, FABRICATED UNITS AND SHORT SECTIONS OF PIPE, ALSO SHOW A DETAILED SKETCH OF EACH ASSEMBLY TESTED.

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| <p>NOTES:</p> <ol style="list-style-type: none"> Add the static head due to elevation difference (between test point and maximum elevation) to "minimum test pressure at maximum elevation" from PART I. Use lowest pressure on test gauge at any time during test. Subtract static head due to elevation difference (between test point and maximum elevation) from minimum indicated test pressure. Subtract static head due to elevation difference (between test point and minimum elevation) from "maximum test pressure at minimum elevation" from PART I. Highest pressure on test gauge at any time during test. Add static head due to elevation difference (between test point and minimum elevation) to maximum indicated test pressure. A dead weight tester is only required when testing to a pressure which produces a stress level of 90% of SMYS or greater. However, if a dead weight tester is used on any test, enter the information in the space provided above. | <p>DISTRIBUTION</p> <p>JOB FILE (AT SPONSORING ORGANIZATION)</p> <p>GSM&TS RESPONSIBLE DISTRICT SUPERINTENDENT</p> <p>PROJECT MANAGER/PROJECT ENGINEER</p> <p>TECHNICAL & CONSTRUCTION SERVICES - ASSIGNED JOBS ONLY</p> <p>CAPITAL ACCOUNTING (FOREMAN'S COPY OF JOB)</p> <p>RECORDS SECTION (WC), GMS&TS</p> <p>REPORT FAILURES UNDER TEST TO GAS ENGINEERING & PLANNING</p> |
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Hydrotest **L-300A** from MP 288.9604 - 291.4411 Bakersfield, CA (Test section 115)

Location Class 2	Design Factor (F) .6	MAOP to be Established for this Piping by this Test 757 PSIG	Future Design Pressure 757 PSIG
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STATIC HEAD DUE TO ELEVATION DIFFERENCE (WHERE APPLICABLE)	Max. Elevation 321 Ft.	Static Head Calculation For Water $0.433 \times \text{Elev. Diff.} =$ 7.8 PSIG Other (Specify) _____ X Elev. Diff. = PSIG
	Min. Elevation 303 Ft.	
	Elev. Diff. 18 Ft.	

Pipe Specification		Footage to Be Tested	Pipe Spec. and Footage Verified In Field	% of SMYS			Pressure to Give 90% SMYS
Size	API or ASTM Grade			At MAOP	At Min. Test Press.	At Max. Test Press.	
O.D.	W.T.	Long Seam (ERW, DSAW, Seamless, Etc.)					
1.050	UNK	1" Valve Tee (Item #5)	3 ea.	MOR DY	-	-	-
1.050	.154	API 5L, GR. B, SMLS (strength)	24'	MOR DY	7.37	9.22	10.25
1.050	.113	API 5L, GR. B, SMLS (strength)	6'	MOR DY	10.05	12.57	13.96

Minimum Test Pressure @ Max. Elevation 947 PSIG	Test Fluid To Be Used WATER	MINIMUM TEST DURATION - UNDER 30% SMYS (1 HR. MINIMUM) - 30% SMYS & OVER (8 HRS. MINIMUM) - PREINSTALLATION TEST (SEE ATTACHMENT 'A', GAS STD. A-34) 8 HOURS
Maximum Test Pressure @ Min. Elevation 1052 PSIG		

Redacted | Redacted | For Information or Changes, Call: **9/28/2011 Mark Cabral (925) 588-3640** | Approved By: **Mark Cabral** | Date: **9-28-11**

PART II - TEST DATA (TO BE PREPARED BY PERSON SUPERVISING TEST AT TIME OF TEST)

Note: Minimum test pressure and duration are not to be changed without written approval.

Time and Date Test Pressure Reached 10:05 AM 10/5/11	Elevation at Test Point 305 FT	Min. Required Test Press. At Test Point (1) 954 PSIG	Max. Allowable Test Press at Test Point (4) 1057 PSIG
Time and Date Test Ended 6:45 PM 10/5/11	Max. Elevation in Test Section 321 FT	Min. Indicated Test Pressure (2) 968 PSIG	Max. Indicated Test Pressure (5) 1039 PSIG
Actual Duration of Test 8hr. 40min.	Min. Elevation in Test Section 303 FT	Min. Test Pressure at Max. Elevation (3) 961 PSIG	Max. Test Pressure at Min. Elevation (6) 1040 PSIG

Test Fluid Used: **Water** | Redacted

Make, Range, and Serial No. of Pressure Recording Gauge Barton, 0-3000#, 624086	Date Last Calibrated 6/17/11	Make, Range, and Serial No. of Dead Weight Tester (See Note 7) Chandler, 50/3000#, 5798	Date Last Calibrated 6/17/11
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Redacted | Date: **10/5/11** | Approved By: **Jul [Signature]** | Date: **10-13-11**

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- NOTES:**
- Add the static head due to elevation difference (between test point and maximum elevation) to "minimum test pressure at maximum elevation" from PART I.
 - Use lowest pressure on test gauge at any time during test.
 - Subtract static head due to elevation difference (between test point and maximum elevation) from minimum indicated test pressure.
 - Subtract static head due to elevation difference (between test point and minimum elevation) from "maximum test pressure at minimum elevation" from PART I.
 - Highest pressure on test gauge at any time during test.
 - Add static head due to elevation difference (between test point and minimum elevation) to maximum indicated test pressure.
 - A dead weight tester is only required when testing to a pressure which produces a stress level of 90% of SMYS or greater. However, if a dead weight tester is used on any test, enter the information in the space provided above.

- DISTRIBUTION**
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 - PROJECT MANAGER/PROJECT ENGINEER
 - TECHNICAL & CONSTRUCTION SERVICES - ASSIGNED JOBS ONLY
 - CAPITAL ACCOUNTING (FOREMAN'S COPY OF JOB)
 - RECORDS SECTION (WC), GSM&TS
 - REPORT FAILURES UNDER TEST TO GAS ENGINEERING & PLANNING