



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

Feeder Main Number, Line Number, or Station Name L-300B	Area 4	Division/District Kern	Job Number 41545511	Date Job Authorized 10-26-11
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Description of Job - Include Reference Drawing Numbers, and Pipeline Mileposts
Test 2 - Existing 34" materials listed are from the "Material of Record" (refer to Dwg. 41545511, sheet 5) Hydrostatically test 34" tie-in piping, hydrostatic test piping and existing 34" L-300B. Rev. 1 - Retest T-117 segment added 34" OD, 0.375" WT, API 5L X-65, DSAW pipe to replace ruptured pipeline segment.

Hydrotest **L-300B from MP 283.85 - 284.62 Bakersfield, CA (Test Section 117)**

Location Class 1	Design Factor (F) 0.72	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 344 Ft.	Static Head Calculation	
	Min. Elevation 339 Ft.	For Water	$0.433 \times \text{Elev. Diff.} =$ 2 PSIG
	Elev. Diff. 5 Ft.	Other (Specify)	X Elev. Diff. = PSIG

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 Long Seam (ERW, DSAW, Seamless, Etc.)			At MAOP	At Min. Test Press.	At Max. Test Press.	
34.00	.500 API 5L, X-65, DSAW (item#101)	47'	39.3 DY	39.60	49.54	54.92	1721
34.00	.4375 API 5L, X-48, DSAW (item#1)	297'	297.5 DY	61.28	76.66	85.00	1112
34.00	.344 API 5L, X-52, DSAW (item#2)	3629'	3626.6 DY	71.94	90.00	99.79	947
34.00	.505 Elbow, GR Y60, 90° (item#113)	4 ea.	4 ea. DY	42.47	53.13	58.91	1604
34.00	.375 API 5L, X-65, DSAW	84"	109.8 DY	52.80	66.05	73.23	1290
34.00	.505 API 5L X60 DSAW		23.8 DY	42.47	53.13	58.91	1,604

Minimum Test Pressure @ Max. Elevation	947 PSIG	Test Fluid To Be Used	WATER	MINIMUM TEST DURATION	8 HOURS
Maximum Test Pressure @ Min. Elevation	1050 PSIG			- UNDER 30% SMYS (1 HR. MINIMUM) - 30% SMYS & OVER (8 HRS. MINIMUM) - PREINSTALLATION TEST (SEE ATTACHMENT 'A', GAS STD. A-34)	

Prepared By: Redacted	For Information or Changes, Call: Mark Cabral (925) 588-3640	Approved By: Mark Cabral	Date: 10-26-11
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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	10:20 AM 10/27/11	Elevation at Test Point	343 FT	Min. Required Test Press. At Test Point (1)	947 PSIG	Max. Allowable Test Press at Test Point (4)	1048 PSIG
Time and Date Test Ended	6:30 PM 10/27/11	Max. Elevation in Test Section	344 FT	Min. Indicated Test Pressure (2)	970 PSIG	Max. Indicated Test Pressure (5)	1042 PSIG
Actual Duration of Test	8 hr. 10 min.	Min. Elevation in Test Section	339 FT	Min. Test Pressure at Max. Elevation (3)	970 PSIG	Max. Test Pressure at Min. Elevation (6)	1044 PSIG

Test Fluid Used	Water	Pipe	Redacted
Make, Range, and Serial No. of Pressure Recording Gauge	Barton 0-3000#, 624082	Date Last Calibrated	6/17/11
Make, Range, and Serial No. of Dead Weight Tester (See Note 7)	Chandler 50-3000#, 5198	Date Last Calibrated	6/17/11
Test Supervised By: Redacted	Date: 10/27/11	Approved By: Redacted	Date: 11-2-11

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.

- 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**
- JOB FILE (AT SPONSORING ORGANIZATION)
 - GSM&TS RESPONSIBLE DISTRICT SUPERINTENDENT
 - 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

*** THIS IS A SUCCESSFUL RE-TEST. THE INITIAL TEST ATTEMPT EXPERIENCED A LONG SEAM FAILURE, RESULTING IN A RUPTURE. THE RUPTURED PIPE WAS REPLACED. (SEE T-117 TEST FOLDER FOR DOCUMENTATION OF THE FAILED TEST)**