62-4921 (Rev. 2/04) California Gas Transmission (Use in Accordance with Gas Standard A-34 and GO 112-D)

of \_\_2\_

Sheet \_\_\_1\_

Test   Page					ROJECT ENGINEER				,								
Transport   Tran	Feeder Main Number, Line Number, or Station Name							udacted									
Test 4(c - D) - Hydrostatically test tie-in pieces, hydrostatic test piping and existing 30° L-132. Existing pipeline material listed; ie. Pipe, elbows, sleeves are from the "Material of Record" (refer to Dwg 41497368, sheet of 7 of 7. Revision 1. Updated for 2012 construction.    Hydrostat L-132 from   Reclacted				ş -					414973			358 July 16, 2012					
Continue Class   State   Design Feder (F)	Test 4 (C – D) – Hydrostatically test tie-in pieces, hydrostatic test piping and existing 30" L-132. Existing pipeline material listed; ie. Pipe, elbows,																
STATIC READ DUT O   Max. Elevation   423   PL   Static Head Calculation   172   PSIG   PSIG   172   PSIG   PSIG   172   PSIG		Hydrotest L-132 from Redacted (TIM-037-11)															
STATIC READ DUT O   Max. Elevation   423   PL   Static Head Calculation   172   PSIG   PSIG   172   PSIG   PSIG   172   PSIG	Location Class Design Factor (F) MAOP to be Established for this Pining by this Test Future Design Pressure																
ELEVATION DIFFERENCE   Elev. Diff.   396   Ft.   One (Spatish)   XElev. Diff.   PSIG														300	PSIG		
PRESIDENT   PRES	STATIC HEAD DUE TO Max. Elevation 423 Ft. Static Head Calculation																
Size	ELEVAT	TION DIFFE	RENCE	Min. Elevation	27 Ft.		0.433 X Elev. Diff. =					172 <sub>PSIG</sub>					
Store	(WHE	RE APPLIC	ABLE)	Elev. Diff.	396 Ft. Other (Specify)			X Elev. Diff. =			Diff. =	PSIG					
Dog Semi (EMP. DAWN DAWN Semines, ED.   Be Teiled   In Field   MAQP   Test Press.   SMYS									Pipe Spec. and		% of SMYS						
30.00			Long				, ,								1		
30.00											1137103				463		
30.00   0.375   Elbow, Y-60, LR																	
30.00 0.375 Pipe, API SL X-52, DSAW (item #1) 5992' 23.08 34.62 53.85 1170 30.00 0.312 Pipe, API SL X-52, DSAW (item #3) 304' 27.74 41.61 64.72 974  Minimum Test Pressure @ Max. Elevation 450 PSIG Test Fluid To Be Used Uniform Test Pressure @ Max. Elevation 700 PSIG Test Fluid To Be Used Uniform Test Pressure @ Max. Elevation 700 PSIG Test Fluid To Be Used Pressure @ Min. Elevation 700 PSIG Test Fluid To Be Used Pressure @ Min. Elevation 700 PSIG Test Fluid To Be Used Pressure @ Min. Elevation 100 PSIG PSIG PSIG PSIG PSIG PSIG PSIG PSIG										<del></del>		30.00			350		
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Maximum Test Pressure @ Min. Elevation	Minimum Test Pressure @ Max. Elevation 450 PSIG To Be Used - UNDER 30											0% SMYS (1 HR. MINIMUM) 8 HOURS					
PART II - TEST DATA (TO BE PREPARED BY PERSON SUPERVISING TEST AT TIME OF TEST)  Ime and Date Test Pressure Reached    Point	Maximum Te	st Pressu	e @ Min. Eleva	tion	700	PSIG	887	II LIX					T 'A', GAS STD.	A-34)			
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Test Fluid Used    Pipe Specification and Footage Verified (See Part I)				***************************************			FT				(2) PSIG			5)	PSIG		
Test Fluid Used    Pipe Specification and Footage Verified (See Part I)					to all the all the later and the second of t		ET				peid				neic		
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:  Approved By:  Date:  Approved By:  Date:  Approved By:  Date:  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 FACH ASSEMBLY TESTED.  NOTES:  (1) Add the static head due to elevation difference (between test point and maximum elevation) to "minimum test pressure on test gauge at any time during test.  (3) Subtract static head due to elevation difference (between test point and maximum elevation) from ninimum indicated test pressure.  (4) Subtract static head due to elevation difference (between test point and minimum elevation) from "maximum test pressure at minimum elevation" from PART I.  (5) Highest pressure on test gauge at any time during test.  (6) Add static head due to elevation difference (between test point and minimum elevation) from maximum test pressure at minimum elevation from PART I.  TECHNICAL & CONSTRUCTION SERVICES - ASSIGNED JOBS ONLY  TECHNICAL & CONSTRUCTION SERVICES - ASSIGNED JOBS ONLY  TECHNICAL & CONSTRUCTION SERVICES - ASSIGNED JOBS ONLY  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																	
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indicated test pressure.

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62-4921 (Rev. 2/04)
California Gas Transmission
to in Accordance with Gas Standard A-34 and GO 112-D)

(For Pipeline Facilities Designed to Operate over 100 PSIG) Sheet of PART I - DESIGN DATA (TO BE PREPARED BY PROJECT ENGINEER) Job Number Date Job Authorized Feeder Main Number, Line Number, or Station Name Area Redacted July 16, 2012 41497358 L-132 Description of Job - Include Reference Drawing Numbers, and Pipeline Mileposts Test 4 (C - D) - Hydrostatically test tie-in pieces, hydrostatic test piping and existing 30" L-132. Existing pipeline material listed; ie. Pipe, elbows, sleeves are from the "Material of Record" (refer to Dwg 41497358, sheet 7 of 7). Revision 1 - Updated for 2012 construction. Hydrotest L-132 from Redacted (TIM-037-11) MAOP to be Established for this Piping by this Test Future Design Pressure Location Class Design Factor (F) 300 .5 300 **PSIG PSIG** 3 423 STATIC HEAD DUE TO Max. Elevation Ft. Static Head Calculation 172 27 PSIG Ft. For Water 0.433 X Elev. Diff. = **ELEVATION DIFFERENCE** Min. Elevation 396 **PSIG** Ft. X Elev. Diff. = (WHERE APPLICABLE) Flev. Diff. Other (Specify) % of SMYS Pipe Specification Pipe Spec. and Pressure to Footage Verified At Min. At Max. Give 90% API or ASTM Grade Footage to Size In Field Test Press SMYS MAOP Test Press 0.0 W.T. Long Seam (ERW, DSAW, Seamless, Etc.) Be Tested Elbow, 30000 SMYS\*, SR 3 Ea. 30.00 45.00 70.00 900 30.00 0.500 (item #5) Elbow, Y-52, LR (item #6) 7 Ea. 23.08 34.62 53.85 1170 30.00 0.375 2 Ea. 17.88 26.83 41.73 1510 31.00 0.500 Sleeve, X-52 (item #9) 954 30.624 0.312 Sleeve, X-52 (item #10) 4 Ea. 28.31 42.47 66.07 6 15.34 4108 6.625 0.432 Pipe, GR B, SMLS (item #12) 6.57 9.86 MINIMUM TEST DURATION Test Fluid 450 8 HOURS **PSIG** To Be Used - UNDER 30% SMYS (1 HR. MINIMUM) Minimum Test Pressure @ Max. Elevation - 30% SMYS & OVER (8 HRS. MINIMUM) WATER 700 - PREINSTALLATION TEST (SEE ATTACHMENT 'A', GAS STD. A-34) **PSIG** Maximum Test Pressure @ Min. Elevation For Information or Changes, Call: Annifoved Rv Date: Prepared By: Redacted Redacted 7/16/12 Redacted 7-16-12 Redacted 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 Min. Required Test Max. Allowable Test Elevation at Test Test Pressure FT Press. At Test Point (1)**PSIG** Press at Test Point (4) **PSIG** Reached Point Max. Indicated Min. Indicated Time and Date Max Elevation in FT Test Pressure (2)**PSIG** Test Pressure (5)**PSIG** Test Ended Test Section Min. Test Pressure Max Test Pressure Actual Duration Min. Elevation in PSIG **PSIG** at Max. Elevation (3)at Min. Elevation of Test **Test Section** Pipe Specification and Footage Verified (See Part I) Test Fluid Used Make, Range, and Serial No. of Dead Weight Tester (See Note 7) Date Last Calibrated Make, Range, and Serial No. of Pressure Recording Gauge Date Last Calibrated Test Supervised By: Date: Approved By: 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: (1) Add the static head due to elevation difference (between test point and maximum elevation) to JOB FILE (AT SPONSORING ORGANIZATION) "minimum test pressure at maximum elevation" from PART I. GSM&TS RESPONSIBLE DISTRICT SUPERINTENDENT 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 PROJECT MANAGER/PROJECT ENGINEER minimum indicated test pressure. Subtract static head due to elevation difference (between test point and minimum elevation) from TECHNICAL & CONSTRUCTION SERVICES - ASSIGNED JOBS ONLY 'maximum test pressure at minimum elevation" from PART I. Highest pressure on test gauge at any time during test. CAPITAL ACCOUNTING (FOREMAN'S COPY OF JOB) Add static head due to elevation difference (between test point and minimum elevation) to maximum

An asterisk (\*) indicates values are from the PG&E Technical Guidance Specification for Resolving Unknown Pipeline Features, published 08/01/11.

RECORDS SECTION (WC), GMS&TS

REPORT FAILURES UNDER TEST TO GAS ENGINEERING & PLANNING