JAN 31 1984

14. Taylor Petro. (Name of Supplier, Owner or Dealer) | Sunshine (Address No. and Street(s)) | Springfield (City) | Mo. (State) | 1-17-84 (Date of Test)

15. TANK TO TEST

Center Tank of 3 (Identity by position)

Prem. Unlead (Brand and Grade)

16. CAPACITY

Nominal Capacity 6,000 Gallons

By most accurate capacity chart available 6016 Gallons

Is there doubt as to True Capacity? ☐

See Section "DETERMINING TANK CAPACITY"

From
- [X] Station Chart
- [ ] Tank Manufacturer's Chart
- [ ] Company Engineering Data
- [ ] Charts supplied with petro Tite
- [ ] Other _____

17. FILL-UP FOR TEST

Stick Water Bottom before Fill-up No water to ⅛ in. _____ Gallons

Fill up. STICK BEFORE AND AFTER EACH COMPARTMENT DROP OR EACH METERED DELIVERY QUANTITY

	Stick Readings to ⅛ in.	Gallons	Total Gallons ea. Reading
Inventory	96		6016
	Water		0
	Fill		+5
Product in full tank (up to fill pipe)			6021

Tank Diameter 96

18. SPECIAL CONDITIONS AND PROCEDURES TO TEST THIS TANK

See manual sections applicable. Check below and record procedure in log (26).

☐ Water in tank ☐ High water table in tank excavation ☐ Line(s) being tested with LVLLT

OBS API Gravity 61.1
OBS Sample Temp 37°F
Corrected API Gravity 64.2

VAPOR RECOVERY SYSTEM
- ☐ Stage I
- ☐ Stage II

19. TANK MEASUREMENTS FOR TSTT ASSEMBLY

Bottom of tank to Grade* 125½ "

Add 30" for 4" L _____ "

Add 24" for 3" L or air seal _____ "

Total tubing to assemble Approximate 168 "

20. EXTENSION HOSE SETTING

Tank top to grade* 31½ "

Extend hose on suction tube 6" or more below tank top _____ "

*If Fill pipe extends above grade, use top of fill.

21. TEMPERATURE/VOLUME FACTOR (a) TO TEST THIS TANK

Is Today Warmer? ( ) Colder? ( ) ____° F Product in Tank ____° F Fill-up Product on Truck ____° F Expected Change (+ or −)

22. Thermal-Sensor reading after circulation 06254 digits 40/41 Nearest °F

23. Digits per °F in range of expected change 318 digits

24. 6021 (total quantity in full tank (16 or 17)) × .00064342 (coefficient of expansion for involved product) = 3.87403 (volume change in this tank per °F) gallons

25. 3.87403 (volume change per °F (24)) ÷ 318 (Digits per °F in test Range (23)) = .012182 (Volume change per digit. Compute to 4 decimal places.) This is test factor (a)

26. LOG OF TEST PROCEDURES			30. HYDROSTATIC PRESSURE CONTROL		31. VOLUME MEASUREMENTS (V) RECORD TO .001 GAL.			34. TEMPERATURE COMPENSATION USE FACTOR (a)			38. NET VOLUME CHANGES EACH READING	39. ACCUMULATED CHANGE
27. DATE / TIME (24 hr.)	28. Record details of setting up and running test. (Use full length of line if needed.)	29. Reading No.	Standpipe Level in Inches: Beginning of Reading	Standpipe Level in Inches: Level to which Restored	32. Product in Graduate: Before Reading	Product in Graduate: After Reading	Product Replaced (−) / Product Recovered (+)	35. Thermal Sensor Reading	36. Change Higher + Lower − (c)	37. Computation (c) × (a) = Expansion + Contraction −	Temperature Adjustment: Volume Minus Expansion (+) or Contraction (−) #33(V) — #37(T)	At High Level record Total End Deflection / At Low Level compute Change per Hour (NFPA criteria)
0900	Arrived at test location											
0915	Measure for water in tank											

petro Tite TANK TESTER

HEATH CONSULTANTS
100 TOSCA DRIVE
P.O. BOX CS-200
STOUGHTON, MA. 02072-9986
(617) 344-1400

	valves										
0940	Tank rest assembled				A factor .012						
0945	pump primed + Running - level in stand-pipe above 42"										
1045	Start Hi level test	1		42				06 255			
1100	Hi level ~~cont~~ 42"	2	36.1	42	.930	.610	-.320	258	+3	+.036	-.356
1115		3	38.3	42	.610	.403	-.207	260	+2	+.024	-.231
1130		4	39.8	42	.403	.275	-.128	265	+5	+.060	-.188
1145		5	40.5	42	.275	.195	-.080	270	+5	+.060	-.140
1200		6	41.0	42	.542	.489	-.053	274	+4	+.048	-.101
1215		7	41.7	42	.489	.472	-.017	277	+3	+.036	-.053
1230		8	42	42	.472	.472	-.000	281	+4	+.048	-.048
1235	Lower standpipe to 12"										
	Start Low level test	9		12				282			
1250		10	12.1	12	.488	.490	+.002	287	+5	+.060	-.058
1305		11	12	12	.490	.490	+.000	290	+3	+.036	-.036
1320	Trouble with	12	11.9	12	.488	.485	-.003	293	+3	+.036	-.039
1335	air in line	13	12.1	12				297	+4	+.048	
1350			12.3	12	.479	.489	+.010	301	+4	+.048	-.038
1415	Start Low Level over	14		12				307			
1430		15	12.6	12	.510	.541	+.031	309	+2	+.024	+.007
1445		16	12.8	12	.541	.575	+.034	313	+4	+.048	-.014
1500		17	12.8	12	.575	.610	+.035	317	+4	+.048	-.013
1515		18	12.7	12	.610	.639	+.029	319	+2	+.024	+.004
1530		19	12.8	12	.639	.668	+.029	322	+3	+.036	-.007
											-.083
					Tank is OK.						

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	Isolate island with fire valves				A factor		.017					
1045	Tank test assembled											
1100	pump primed + Running - level in stand pipe above 42"											
1200	Start Hi Level Test	1		42				0.5 579				
1215	Hi level cont. 42"	2	43.4	42	.771	844	+.073	586	+7	+.119	-.046	
1230		3	43.4	42	844	929	+.085	594	+8	+.136	-.051	
1245		4	43.7	42	.581	682	+.101	602	+8	+.136	-.035	
1300		5	43.9	42	.678	792	+.114	611	+9	+.153	-.039	
1315		6	43.7	42	.794	896	+.102	617	+6	+.102	+0	
1330		7	44.0	42	.624	.742	+.128	627	+10	+.170	-.042	
1345		8	43.7	42	.734	836	+.102	634	+7	+.119	-.017	
1350	Lower standpipe to 12"											
1400	Start Low level test	9		12				642				
1415		10	14.3	12	.192	.329	+.137	647	+5	+.085	+.052	
1430		11	13.9	12	.329	.443	+.114	653	+6	+.102	+.012	+.012
1445		12	14.3	12	.443	.576	+.133	661	+8	+.136	-.003	+.009
1500		13	14.1	12	.576	.700	+.124	668	+7	+.119	+.005	+.014
1505	Stop test											
			13.9	12	700	813	113	676	8	136	-.013	+.001

Test OK -
.050 Standard

JAN 17 1984

14. Taylor Petroleum — Name of Supplier Owner or Dealer
Sunshine — Address No. and Street(s)
Springfield — City
MO — State
1-14 — Date

15. TANK TO TEST

West tank of 3 — Identity by position

Unlead — Brand and Grade

16. CAPACITY

Nominal Capacity _____ Gallons

By most accurate capacity chart available 8000 Gallons

Is there doubt as to True Capacity? ☐

See Section "DETERMINING TANK CAPACITY"

From
- ☒ Station Chart
- ☐ Tank Manufacturer's
- ☐ Company Engineering
- ☐ Charts supplied with
- ☐ Other _____

17. FILL-UP FOR TEST

Stick Water Bottom before Fill-up 1/4 " to ⅛ in. — 3 Gallons

Fill up. STICK BEFORE AND AFTER EACH COMPARTMENT DROP OR EACH METERED DELIVERY QUANTITY

Tank Diameter 96"

	Stick Readings to ⅛ in.	Gallons
Inventory		
− Water		
+ fill pipe		
Product in full tank (up to fill pipe)		

18. SPECIAL CONDITIONS AND PROCEDURES TO TEST THIS TANK

See manual sections applicable. Check below and record procedure in log (26).

OBS API Gravity 61.8
OBS API Sample Temp 35
Corrected API gravity 63.1

☐ Water in tank ☐ High water table in tank excavation ☐ Line(s) being tested with LVLLT

VAPOR RECOVERY
- ☐ Stage I
- ☐ Stage II

19. TANK MEASUREMENTS FOR TSTT ASSEMBLY

Bottom of tank to Grade* ..... 124 1/2"
Add 30" for 4" L ..... "
Add 24" for 3" L or air seal ..... "
Total tubing to assemble Approximate ..... "

20. EXTENSION HOSE SETTING

Tank top to grade* ..... 28"
Extend hose on suction tube 6" or more below tank top ..... Yes"

*If Fill pipe extends above grade, use top of fill.

21. TEMPERATURE/VOLUME FACTOR (a) TO TEST THIS TANK

Is Today Warmer? ☐ Colder? ☒ 12 °F Product in Tank 37 °F Fill-up Product on Truck ___ °F Expected Chang

22. Thermal-Sensor reading after circulation 05102 digits — 36/37 Nearest °F

23. Digits per °F in range of expected change 297 digits

24. 8004 (total quantity in full tank (16 or 17)) × .00064981 (coefficient of expansion for involved product) = 5.201 (volume change in this tan per °F)

25. 5.2010 (volume change per °F (24)) ÷ 297 (Digits per °F in test Range (23)) = .0175 (Volume change per digit. Compute to 4 decimal pla

LOG OF TEST PROCEDURES: Record details of setting up and running test. (Use full length of line if needed.)	29. Reading No.	30. HYDROSTATIC PRESSURE CONTROL: Standpipe Level in Inches: Beginning of Reading	Level to which Restored	31. VOLUME MEASUREMENTS (V) RECORD TO .001 GAL.: 32. Product in Graduate: Before Reading	After Reading	Product Replaced (−) / Product Recovered (+)	34. TEMPERATURE COMPENSATION USE FACTOR (a): 35. Thermal Sensor Reading	36. Change Higher + Lower − (c)	37. Computation (c) × (a) = Expansion + Contraction −	38. NET VOLUME CHANGES EACH READING: Temperature Adjustment: Volume Minus Expansion (+) or Contraction (−) #33(V) − #37(T)
Arrived.										
Took Tank measurement.										
Pushed Water										
Set up Equipment.										
Start orientation							A factor .017			
		42	42				.05117			
Start Test High Level	1		42				.05117			
	2	38.1	42	.599	.430	−.169	.126	+9	+.153	−.322
	3	38.9	42	.430	.309	−.121	.137	+9	+.153	−.274
	4	39.8	42	309	225	−.084	.150	+13	+.221	−.305
	5	41.2	42	225	195	−.030	.158	+8	+.136	−.166
	6	41.9	42	195	190	−.005	.168	+10	+.170	−.175
	7	42.1	42	.190	.194	+.004	.182	+14	+.238	−.234
	8	42.2	42	.194	.200	+.006	.192	+10	+.170	−.164
Lower Standpipe	1		12				193			
Start Low Level	2	14.5	12	418	544	+.126	200	+7	+.119	+.007
	3	14.7	12	540	682	+.142	209	+9	+.153	−.011
	4	14.8	12	682	809	+.127	218	+9	+.153	−.026
	5	14.7	12	594	727	+.133	226	+8	+.136	−.003
End Test									−.033	1.0

Tank test ok (good)