Coordinates are North Central Zone
NAD27 Grid Coordinates

Surveyors Note:

This Plat was prepared to represent the Trinity A Gas Drilling Unit and the mineral tracts within that unit, for the sole use of Titan Operating LLC and its affiliates and does not represent a boundary survey.

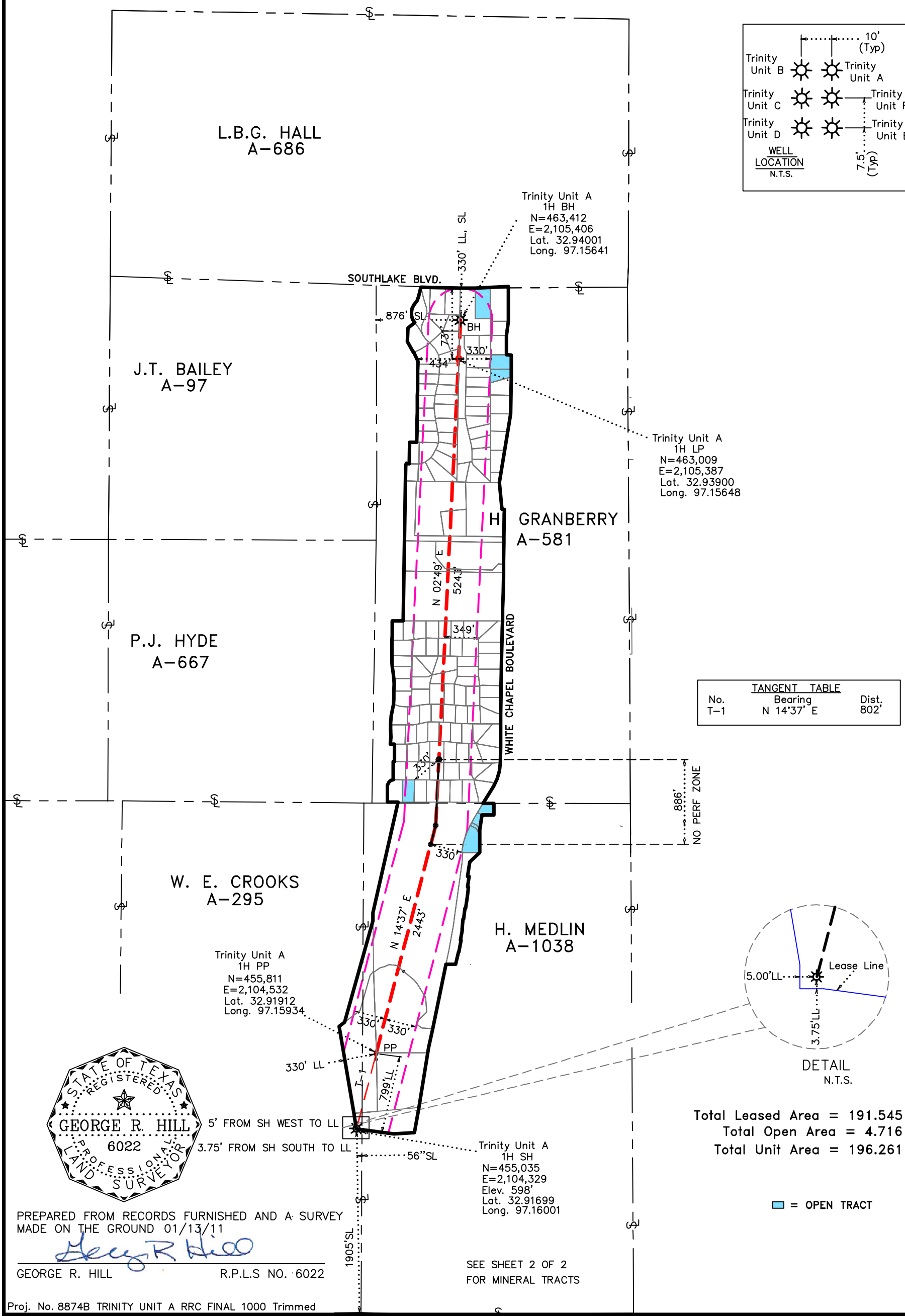
Original Scale : 1" = 1000

0 500 1000 2000

Graphic Scale in Feet

Surface location is 2.4 miles in a Southwesterly direction from Southlake Town Hall, Southlake, Texas.

N



TANGENT TABLE

No.	Bearing	Dist.
T-1	N 14°37' E	802'

Total Leased Area = 191.545 Ac.
Total Open Area = 4.716 Ac.
Total Unit Area = 196.261 Ac.

STATE OF TEXAS
REGISTERED
GEORGE R. HILL
6022
PROFESSIONAL
LAND SURVEYOR

PREPARED FROM RECORDS FURNISHED AND A SURVEY MADE ON THE GROUND 01/13/11

GEORGE R. HILL R.P.L.S NO. 6022

SEE SHEET 2 OF 2 FOR MINERAL TRACTS

Proj. No. 8874B TRINITY UNIT A RRC FINAL 1000 Trimmed

SCALE 1"=1000'	TITAN OPERATING, LLC	Tarrant County, Texas	SHEET NO.	Sempco Surveying, Inc.
DWN: WED/GRH	Trinity Unit A No. 1H		1 OF 2	3208 S. Main St.
DATE: 02-23-11				Ft. Worth, TX 76110
				(817) 926-7876

Original Scale : 1" = 600

0 300 600 1200

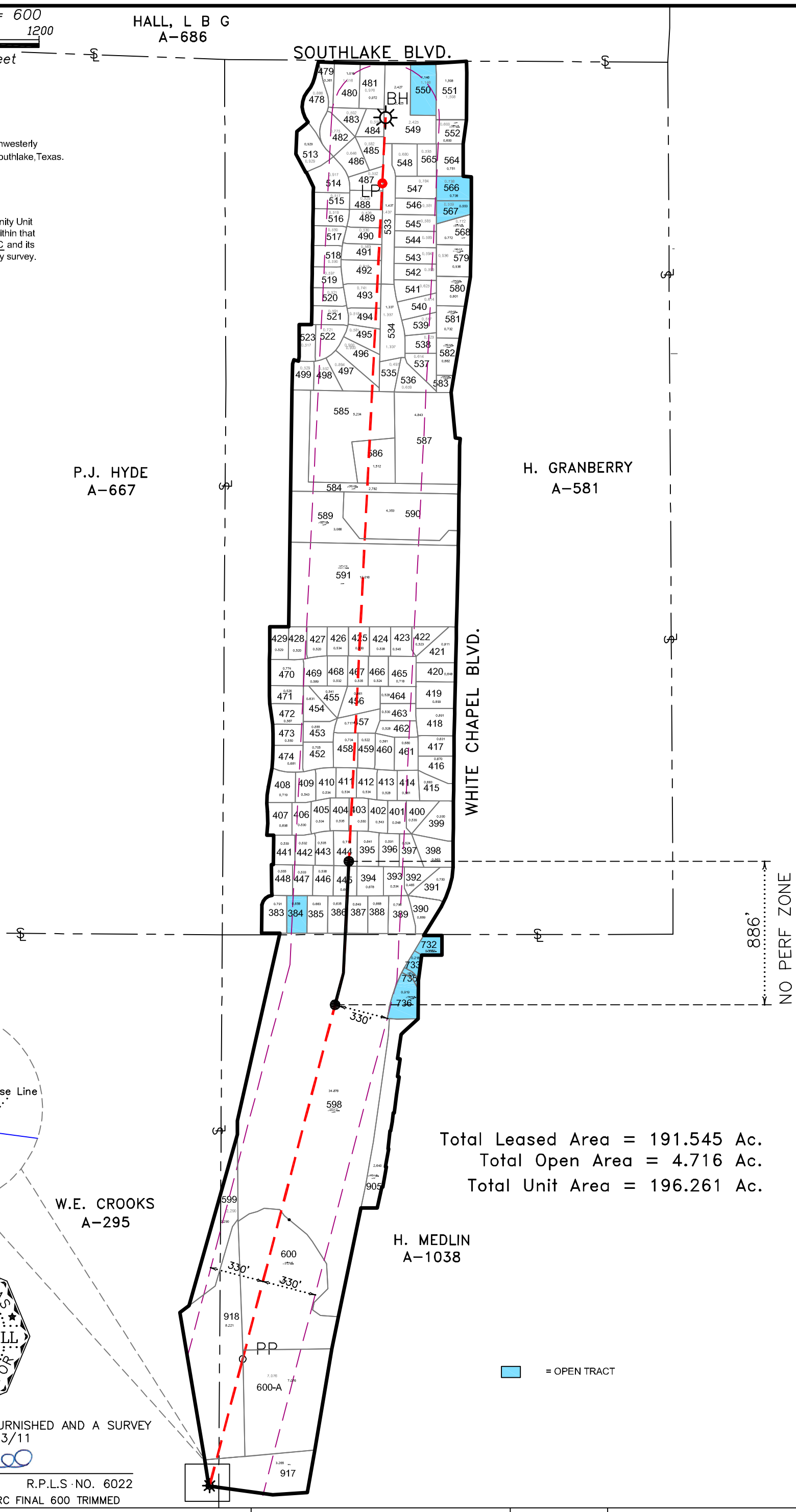
Graphic Scale in Feet

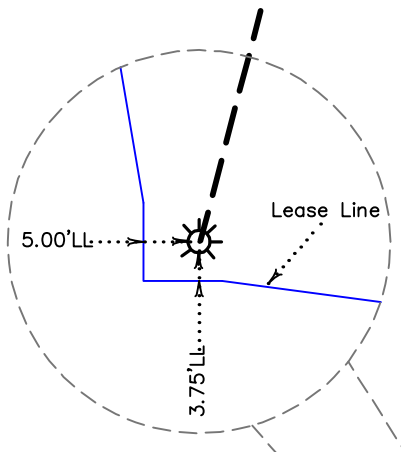
N

Surface location is 2.4 miles in a Southwesterly direction from Southlake Town Hall, Southlake, Texas.

Surveyors Note:

This Plat was prepared to represent the Trinity Unit A Gas Drilling Unit and the mineral tracts within that unit, for the sole use of Titan Operating LLC and its affiliates and does not represent a boundary survey.





DETAIL
N.T.S.

Total Leased Area = 191.545 Ac.
Total Open Area = 4.716 Ac.
Total Unit Area = 196.261 Ac.

STATE OF TEXAS REGISTERED GEORGE R. HILL 6022 PROFESSIONAL LAND SURVEYOR

PREPARED FROM RECORDS FURNISHED AND A SURVEY MADE ON THE GROUND 01/13/11

GEORGE R. HILL R.P.L.S NO. 6022

Proj. No. 8874B TRINITY UNIT A RRC FINAL 600 TRIMMED

SCALE 1"= 600'	TITAN OPERATING, LLC	Tarrant County, Texas	SHEET NO.	Sempco Surveying, Inc.
DWN: WED/GRH	Trinity Unit A No. 1H		2 OF 2	3208 S. Main St.
DATE: 02/23/11				Ft. Worth, TX 76110
				(817) 926-7876

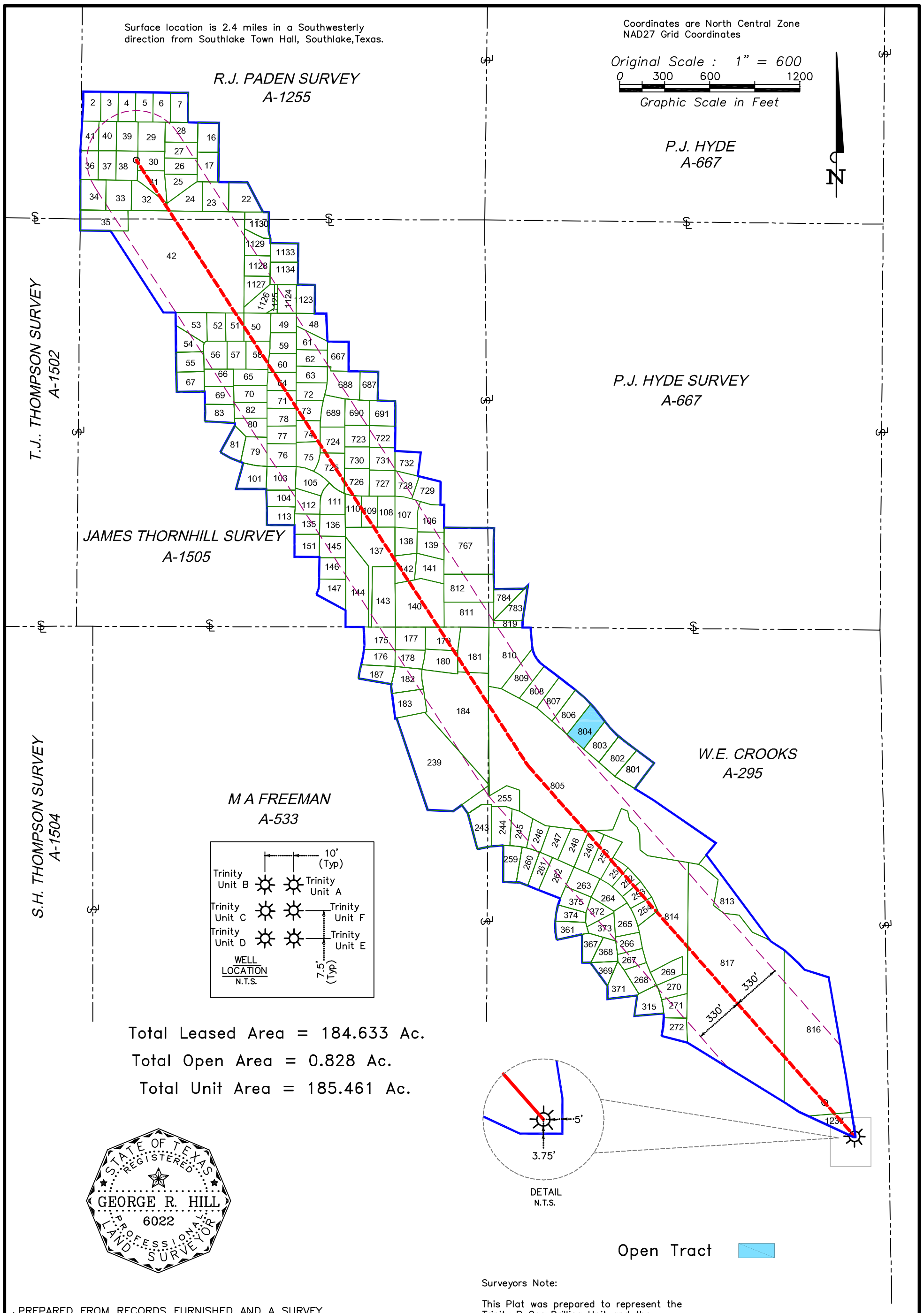
Surface location is 2.4 miles in a Southwesterly direction from Southlake Town Hall, Southlake, Texas.

Coordinates are North Central Zone NAD27 Grid Coordinates

Original Scale : 1" = 600

0 300 600 1200

Graphic Scale in Feet



Total Leased Area = 184.633 Ac.

Total Open Area = 0.828 Ac.

Total Unit Area = 185.461 Ac.

STATE OF TEXAS REGISTERED GEORGE R. HILL 6022 PROFESSIONAL LAND SURVEYOR

PREPARED FROM RECORDS FURNISHED AND A SURVEY MADE ON THE GROUND 02/21/11

GEORGE R. HILL R.P.L.S NO. 6022

Surveyors Note:

This Plat was prepared to represent the Trinity B Gas Drilling Unit and the mineral tracts within that unit, for the sole use of Titan Operating LLC and its affiliates and does not represent a boundary survey.

SEE SHEET 1 OF 2 FOR WELL LOCATION

Proj. No. 8874A–TRINITY_UNIT_B_RRC–FINAL–600_TRIMMED

SCALE 1"= 600'	TITAN OPERATING, LLC Trinity Unit B No. 1H	Tarrant County, Texas	SHEET NO. 2 OF 2	Sempco Surveying, Inc. 3208 S. Main St. Ft. Worth, TX 76110 (817) 926–7876
DWN: WED/GRH				
DATE: 02/22/11				

Coordinates are North Central Zone
NAD27 Grid Coordinates

Original Scale : 1" = 1000

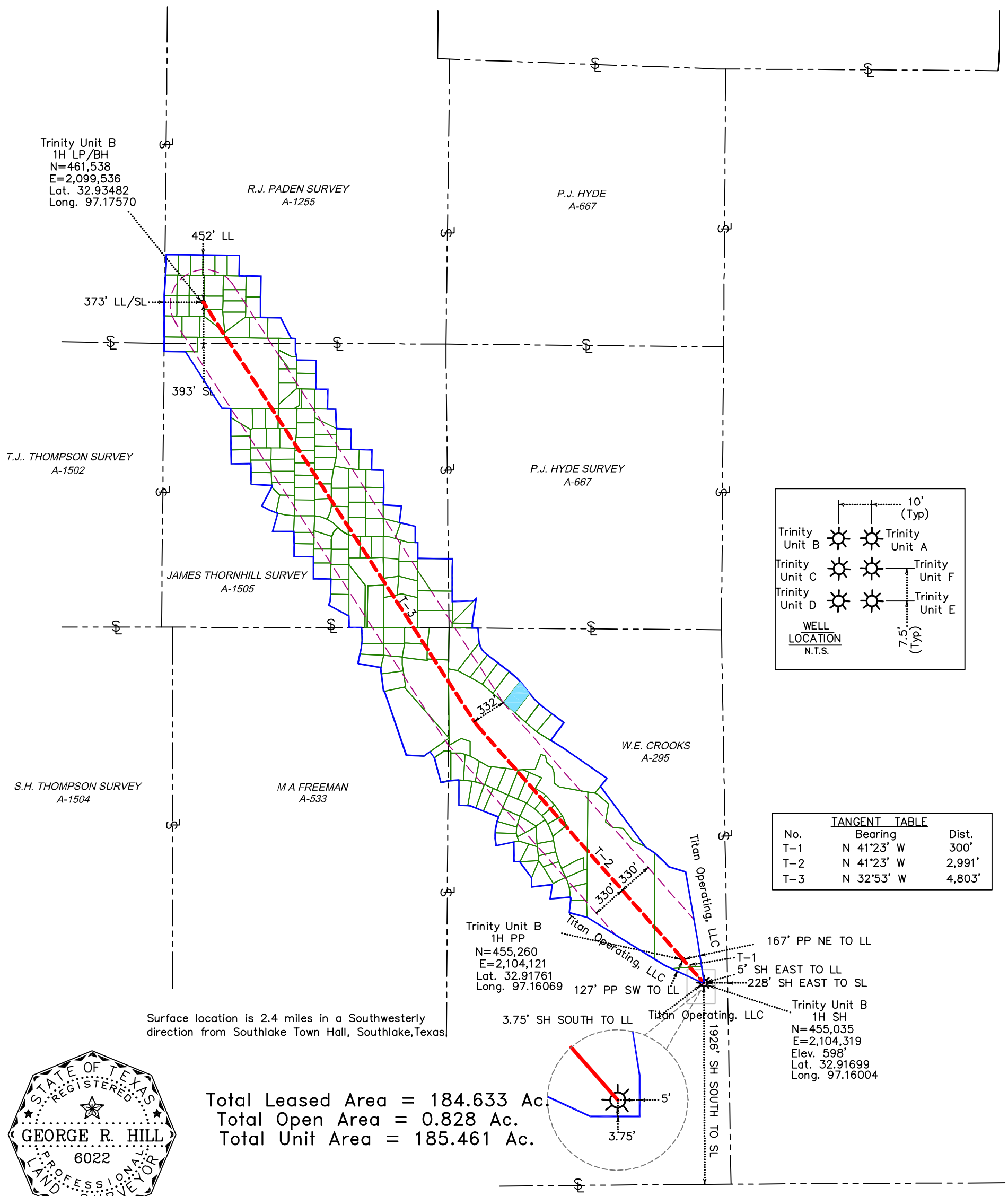
0 500 1000 2000

Graphic Scale in Feet

N

Surveyors Note:

This Plat was prepared to represent the Trinity B Gas Drilling Unit and the mineral tracts within that unit, for the sole use of Titan Operating LLC and its affiliates and does not represent a boundary survey.



Surface location is 2.4 miles in a Southwesterly direction from Southlake Town Hall, Southlake, Texas

TANGENT TABLE

No.	Bearing	Dist.
T-1	N 41°23' W	300'
T-2	N 41°23' W	2,991'
T-3	N 32°53' W	4,803'

Total Leased Area = 184.633 Ac.
Total Open Area = 0.828 Ac.
Total Unit Area = 185.461 Ac.

STATE OF TEXAS
REGISTERED
GEORGE R. HILL
6022
PROFESSIONAL
LAND SURVEYOR

PREPARED FROM RECORDS FURNISHED AND A SURVEY MADE ON THE GROUND 02/21/11

GEORGE R. HILL R.P.L.S NO. 6022

DETAIL
N.T.S.

SEE SHEET 2 OF 2
FOR MINERAL TRACTS

Proj. No. 8874A-TRINITY_UNIT_B_RRC-FINAL-1000_TRIMMED

SCALE 1"= 1000'	TITAN OPERATING, LLC	Tarrant County, Texas	SHEET NO.	Sempco Surveying, Inc.
DWN: WED/GRH	Trinity Unit B No. 1H		1 OF 2	3208 S. Main St.
DATE: 02/22/11				Ft. Worth, TX 76110
				(817) 926-7876

Coordinates are North Central Zone
NAD27 Grid Coordinates

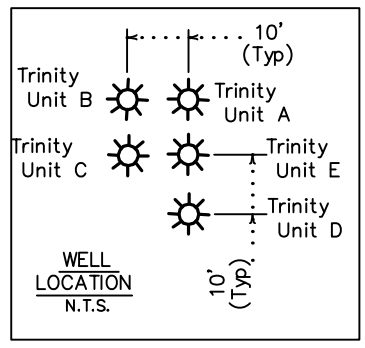
Original Scale : 1" = 1000

0 500 1000 2000

Graphic Scale in Feet

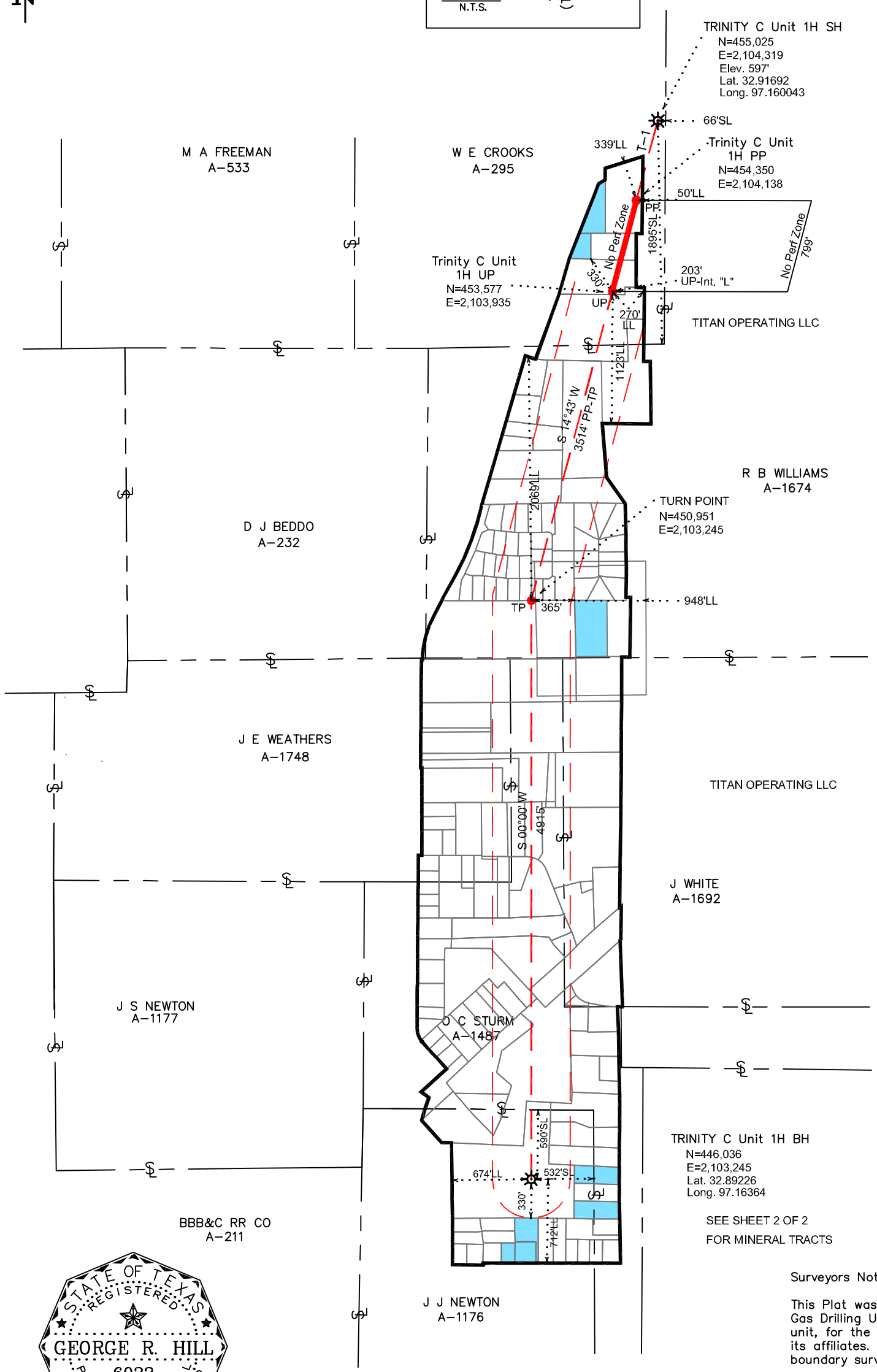
Surface location is 2.4 miles in a Southwesterly direction from Southlake Town Hall, Southlake, Texas.

N



WELL LOCATION
N.T.S.

TANGENT TABLE		
No.	Bearing	Dist.
T-1	S 15°01' W	699'



SEE SHEET 2 OF 2
FOR MINERAL TRACTS

Surveyors Note:

This Plat was prepared to represent the TRINITY C Gas Drilling Unit and the mineral tracts within that unit, for the sole use of Titan Operating LLC and its affiliates. This Plat does not represent a boundary survey.

Total Unit Area = 290.392 AC
Total UnLeased Area = −15.442 AC
Total Leased Area = 274.950 AC

STATE OF TEXAS
REGISTERED
GEORGE R. HILL
6022
PROFESSIONAL
LAND SURVEYOR

PREPARED FROM RECORDS FURNISHED AND A SURVEY MADE ON THE GROUND December 9, 2010

Date signed 12/28/10

GEORGE R. HILL R.P.L.S NO. 6022

= UN-LEASED TRACT

Proj. No. 8874D-TRINITY_C_UNIT-1H-RRC-FINAL_1000

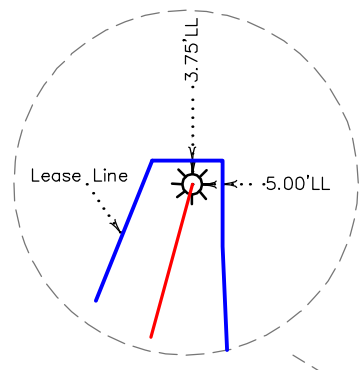
SCALE 1"=1000'	TITAN OPERATING LLC	Tarrant County, Texas	SHEET NO.	Sempco Surveying, Inc.
DWN: GRH	TRINITY C UNIT No.1H		1 OF 2	3208 S. Main St.
DATE: 12/28/10				Ft. Worth, TX 76110
				(817) 926-7876

Coordinates are North Central Zone
NAD27 Grid Coordinates

Original Scale : 1" = 1000
0 500 1000 2000
Graphic Scale in Feet

Surveyors Note:

This Plat was prepared to represent the TRINITY D Gas Drilling Unit and the mineral tracts within that unit, for the sole use of Titan Operating LLC and its affiliates. This Plat does not represent a boundary survey.



DETAIL
N.T.S.

Trinity Unit D
1H SH
N=455,020
E=2,104,319
Elev. 598'
Lat. 32.91695
Long. 97.16004

3.75' FROM SH TO NORTH LL
5.00' FROM SH TO EAST LL

Titan Operating

Trinity Unit D
1H PP
N=454,351
E=2,104,134
Elev. 598'
Lat. 32.91511
Long. 97.16064

338' LL

229' SL

Titan Operating

156' LL

W E CROOKS
A-295

M A FREEMAN
A-533

Titan Operating

331'LL

700'SL

Trinity Unit D
1H UP
N=453,481
E=2,103,874
Lat. 32.91272
Long. 97.16151

TANGENT TABLE

LINE	BEARING	DISTANCE
T1	S 15°27' W	694'
T2	S 16°38' W	908'
T3	S 16°38' W	7132'

D J BEDDO
A-232

RB WILLIAMS
A-1674

Titan Operating

Titan Operating

330' 330'

J E WEATHERS
A-1748

J WHITE
A-1692

J S NEWTON
A-1177

O C STURM
A-1487

Titan Operating

Titan Operating

460' LL
16' FROM BH TO WEST SL

J J NEWTON
A-1176

80' FROM BH TO SOUTH SL

Trinity Unit D
1H BH
N=446,648
E=2,101,832
Lat. 32.89958
Long. 97.16823

BBB&C RR CO
A-211

330' LL

STATE OF TEXAS
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GEORGE R. HILL
6022
PROFESSIONAL
LAND SURVEYOR

PREPARED FROM RECORDS FURNISHED AND A SURVEY MADE ON THE GROUND 01/18/11

GEORGE R. HILL R.P.L.S NO. 6022

Total Unit Area = 185.269 Ac.

SEE SHEET 2 FOR MINERAL TRACT NUMBERS

Proj. No. 8874D-TRINITY_UNIT_D_1H-RRC-FINAL_1000_TRIMMED-02-24-11

SCALE 1"=1000'	TITAN OPERATING LLC TRINITY UNIT D No. 1H	Tarrant County, Texas	SHEET NO. 1 OF 2	Sempco Surveying, Inc. 3208 S. Main St. Ft. Worth, TX 76110 (817) 926-7876
DWN: WED CK: GRH				
DATE: 02/24/11				

Coordinates are North Central Zone
NAD27 Grid Coordinates

Original Scale : 1" = 600

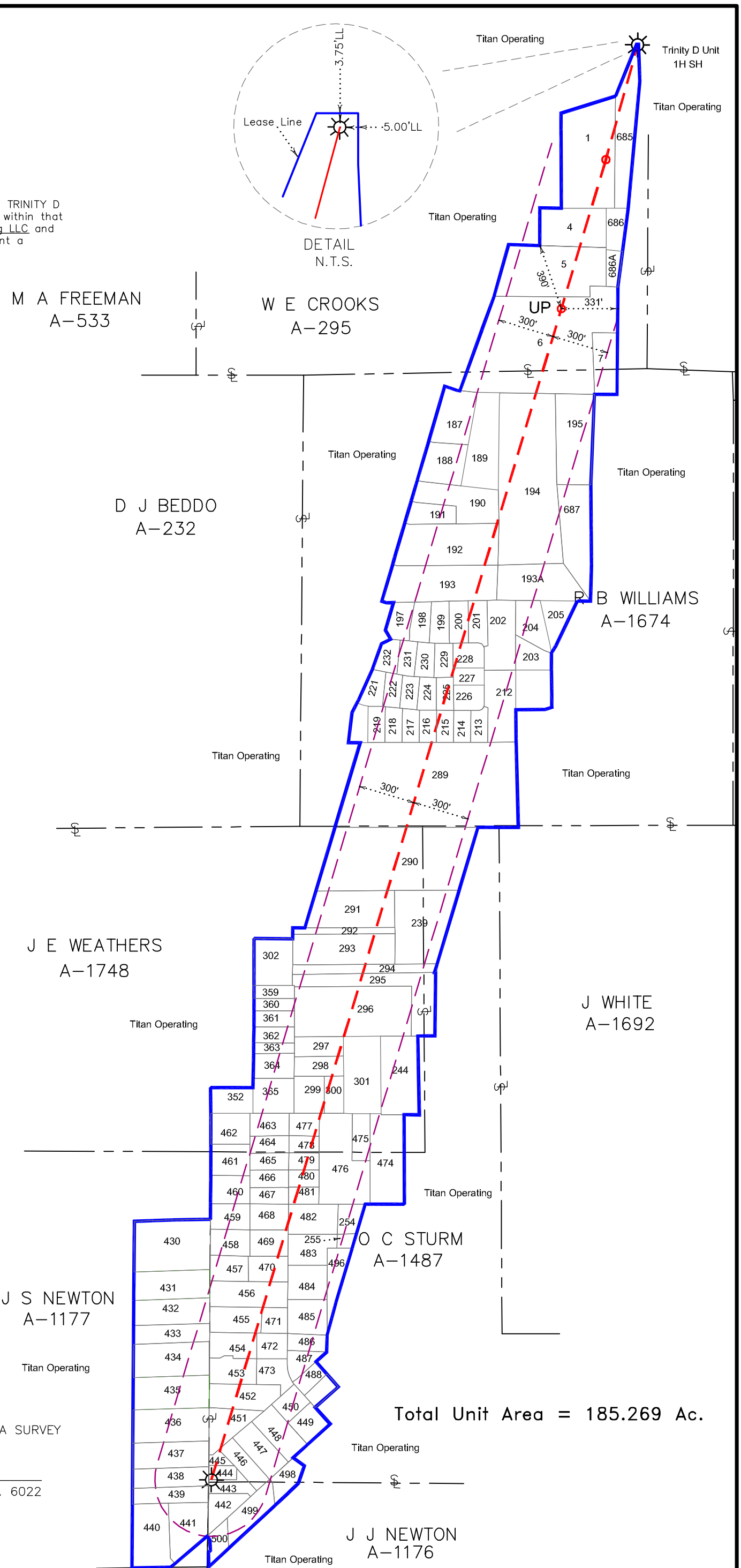
0 300 600 1200

Graphic Scale in Feet

N

Surveyors Note:

This Plat was prepared to represent the TRINITY D Gas Drilling Unit and the mineral tracts within that unit, for the sole use of Titan Operating LLC and its affiliates. This Plat does not represent a boundary survey.



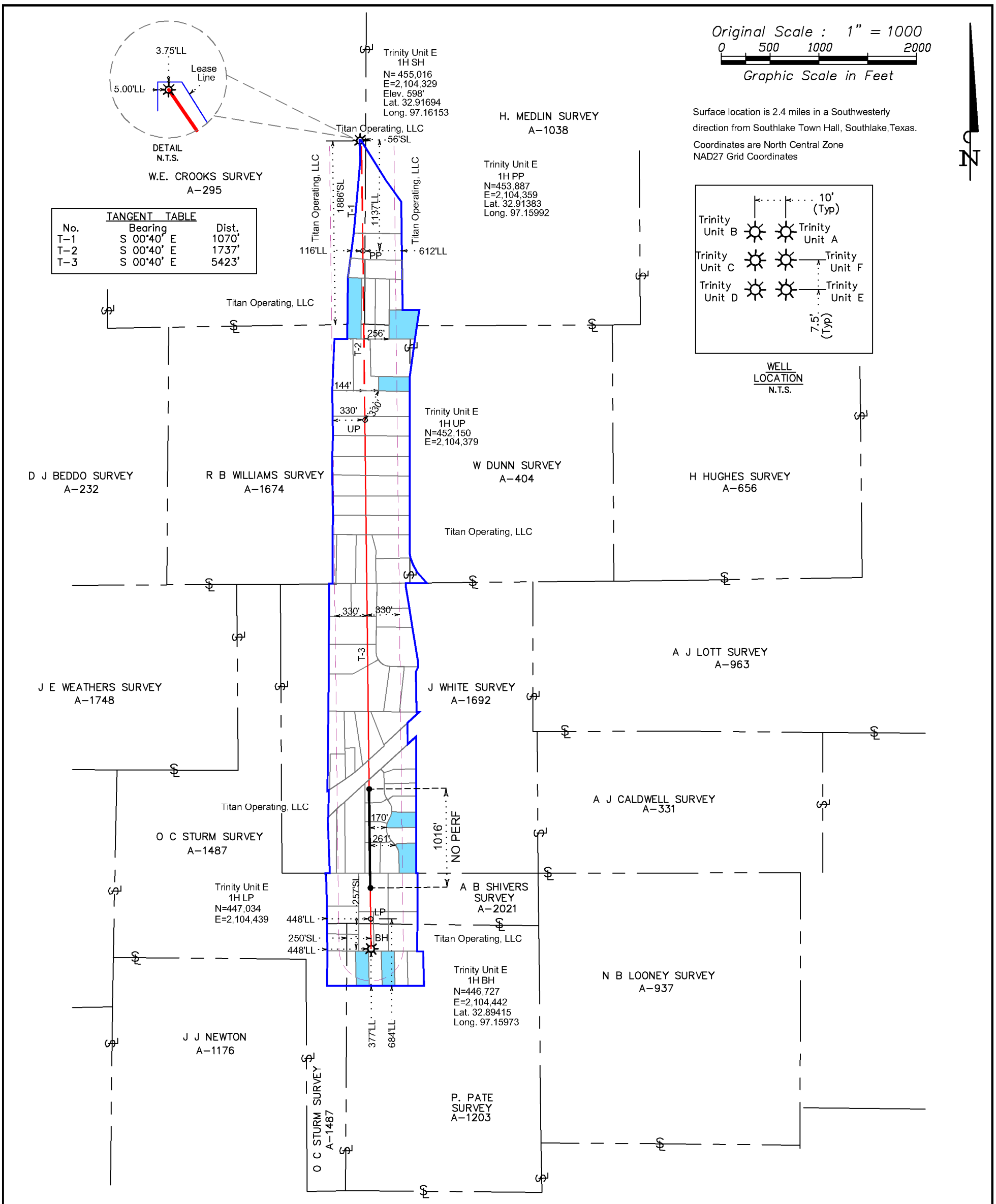
STATE OF TEXAS
REGISTERED
GEORGE R. HILL
6022
PROFESSIONAL
LAND SURVEYOR

PREPARED FROM RECORDS FURNISHED AND A SURVEY MADE ON THE GROUND 01/18/11

GEORGE R. HILL R.P.L.S NO. 6022

Proj. No. 8874D-TRINITY_UNIT_D_1H-RRC-FINAL_600_TRIMMED-02-24-11

SCALE 1"= 600'	TITAN OPERATING LLC	Tarrant County, Texas	SHEET NO.	Sempco Surveying, Inc.
DWN: WED CK: GRH	TRINITY UNIT D No. 1H		2 OF 2	3208 S. Main St.
DATE: 02/24/11				Ft. Worth, TX 76110
				(817) 926-7876



TANGENT TABLE		
No.	Bearing	Dist.
T-1	S 00°40' E	1070'
T-2	S 00°40' E	1737'
T-3	S 00°40' E	5423'

Total Leased Area = 142.908 Acres
Open Area = 9.544 Acres
Total Unit Area = 152.452 Acres

= OPEN TRACT

SEE SHEET 2 OF 2 FOR MINERAL TRACTS

STATE OF TEXAS REGISTERED GEORGE R. HILL 6022 PROFESSIONAL LAND SURVEYOR

PREPARED FROM RECORDS FURNISHED AND A SURVEY MADE ON THE GROUND 02/21/11

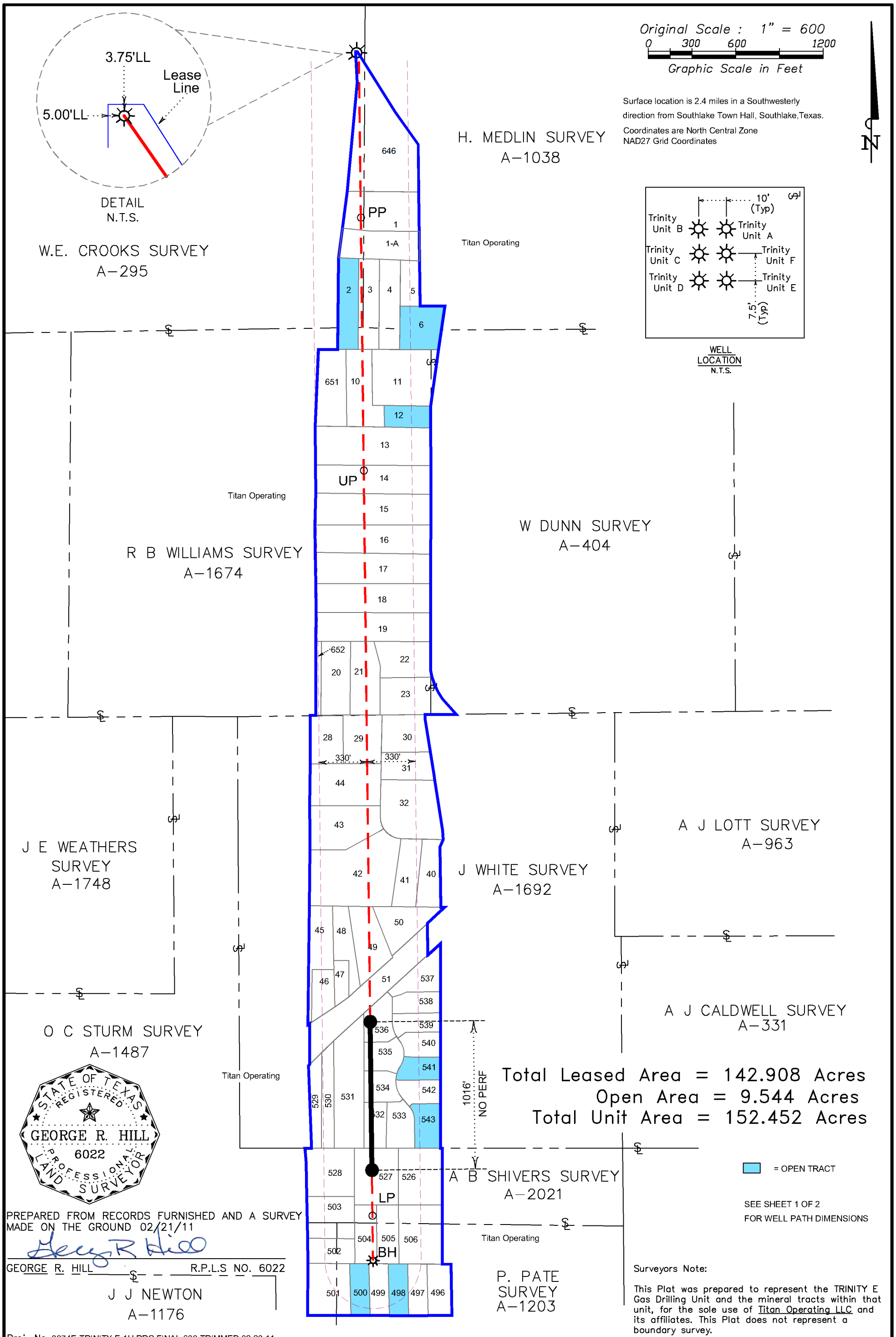
GEORGE R. HILL R.P.L.S NO. 6022

Surveyors Note:

This Plat was prepared to represent the TRINITY E Gas Drilling Unit and the mineral tracts within that unit, for the sole use of Titan Operating LLC and its affiliates. This Plat does not represent a boundary survey.

Proj. No. 8874E TRINITY E 1H RRC FINAL 1000 TRIMMED 02-23-11

SCALE 1"= 1000'	TITAN OPERATING, LLC TRINITY UNIT E No. 1H	Tarrant County, Texas	SHEET NO. 1 OF 2	Sempco Surveying, Inc. 3208 S. Main St. Ft. Worth, TX 76110 (817) 926-7876
DWN: WED CK: GRH				
DATE: 02/23/11				



PREPARED FROM RECORDS FURNISHED AND A SURVEY MADE ON THE GROUND 02/21/11

GEORGE R. HILL R.P.L.S NO. 6022

Surveyors Note:

This Plat was prepared to represent the TRINITY E Gas Drilling Unit and the mineral tracts within that unit, for the sole use of Titan Operating LLC and its affiliates. This Plat does not represent a boundary survey.

Proj. No. 8874E-TRINITY E 1H RRC FINAL 600 TRIMMED-02-23-11

SCALE 1"=600'	TITAN OPERATING, LLC	Tarrant County, Texas	SHEET NO.	Sempco Surveying, Inc.
DWN: WED CK: GRH	TRINITY UNIT E No. 1H		2 OF 2	3208 S. Main St.
DATE: 02/23/11				Ft. Worth, TX 76110
				(817) 926-7876

Coordinates are North Central Zone
NAD27 Grid Coordinates

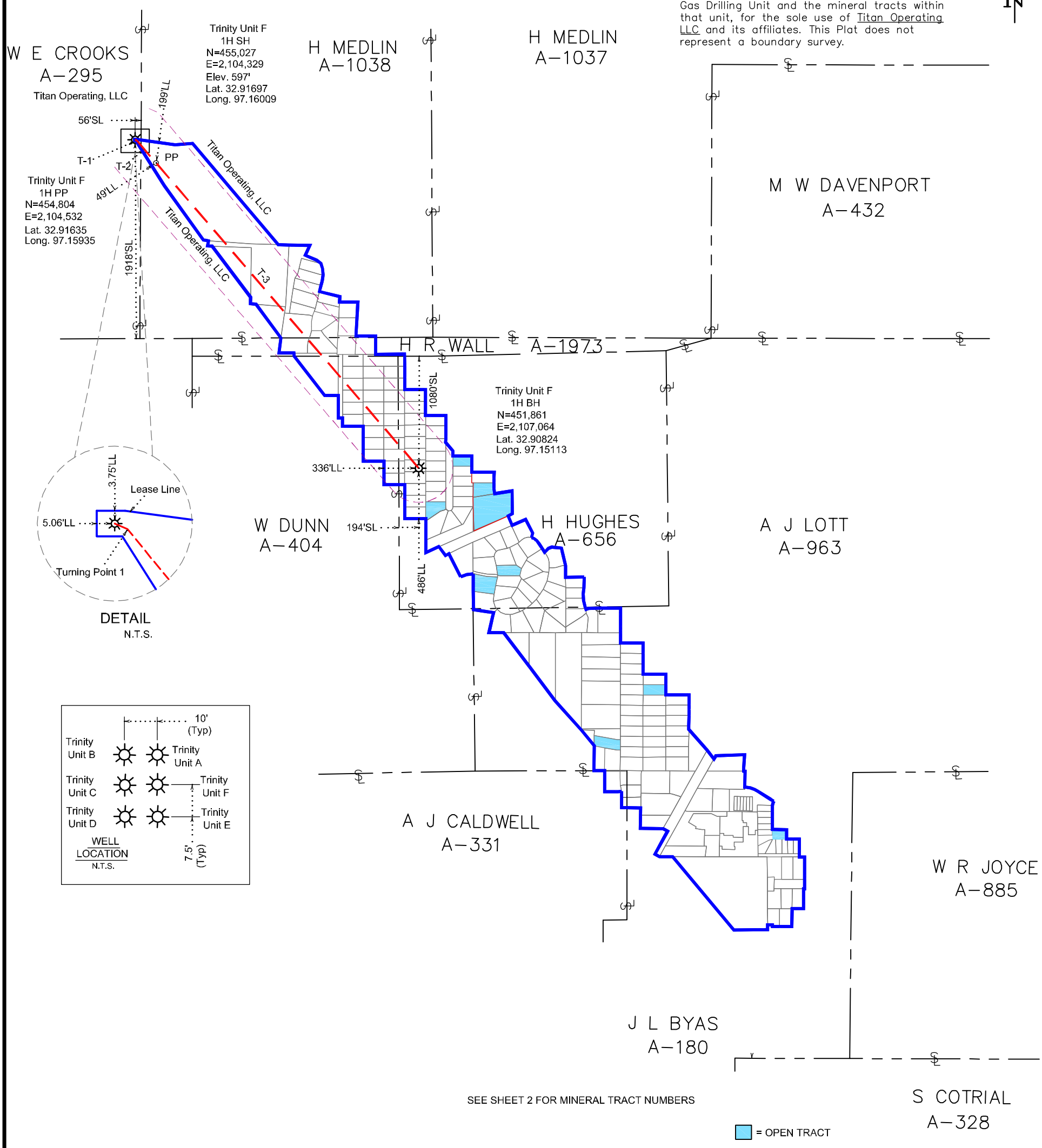
Original Scale : 1" = 1000
0 500 1000 2000
Graphic Scale in Feet

N

TANGENT TABLE		
No.	Bearing	Dist.
T-1	S 66°15' E	17' SH to Turning Point 1
T-2	S 40°43' E	286' Turning Point 1 to PP
T-3	S 40°43' E	3,882' PP to BH

Surveyors Note:

This Plat was prepared to represent the Trinity F Gas Drilling Unit and the mineral tracts within that unit, for the sole use of Titan Operating LLC and its affiliates. This Plat does not represent a boundary survey.



SEE SHEET 2 FOR MINERAL TRACT NUMBERS

Total Leased Area = 166.168 Ac.
Total Open Area = 6.620 Ac.
Total Unit Area = 172.788 Ac.

STATE OF TEXAS
REGISTERED
GEORGE R. HILL
6022
PROFESSIONAL
LAND SURVEYOR

PREPARED FROM RECORDS FURNISHED AND A SURVEY MADE ON THE GROUND 02/21/11

GEORGE R. HILL R.P.L.S NO. 6022

Proj. No. 8874F-Trinity Unit F 1H-RRC-Final 1000-Trimmed 02-24-11

SCALE 1"=1000'	TITAN OPERATING, LLC	Tarrant County, Texas	SHEET No.	Sempco Surveying, Inc.
DWN: WED/GRH	TRINITY UNIT F 1H		1 of 2	3208 S. Main St.
DATE: 02/24/11				Ft. Worth, TX 76110
				(817) 926-7876

Coordinates are North Central Zone
NAD27 Grid Coordinates

Original Scale : 1" = 600
0 300 600 1200
Graphic Scale in Feet

N

Surveyors Note:

This Plat was prepared to represent the Trinity F Gas Drilling Unit and the mineral tracts within that unit, for the sole use of Titan Operating LLC and its affiliates. This Plat does not represent a boundary survey.

DETAIL
N.T.S.

3.75'LL
Lease Line
5' LL

PP
BH

H MEDLIN
A-1038

H MEDLIN
A-1037

H R WALL
A-1973

W DUNN
A-404

H HUGHES
A-656

A J LOTT
A-963

A J CALDWELL
A-331

J L BYAS
A-180

Trinity Unit B
Trinity Unit A
Trinity Unit C
Trinity Unit F
Trinity Unit D
Trinity Unit E
10' (Typ)
7.5' (Typ)
WELL LOCATION
N.T.S.

= OPEN TRACT

STATE OF TEXAS
REGISTERED
GEORGE R. HILL
6022
PROFESSIONAL
LAND SURVEYOR

Total Leased Area = 166.168 Ac.
Total Open Area = 6.620 Ac.
Total Unit Area = 172.788 Ac.

PREPARED FROM RECORDS FURNISHED AND A SURVEY MADE ON THE GROUND 02/21/11

GEORGE R. HILL R.P.L.S NO. 6022

Proj. No. 8874F-Trinity Unit F 1H-RRC-Final 600-Trimmed 02-24-11

SCALE 1"=600'	TITAN OPERATING, LLC	Tarrant County, Texas	SHEET No.	Sempco Surveying, Inc.
DWN: WED/GRH	TRINITY UNIT F 1H		2 of 2	3208 S. Main St.
DATE: 02/24/11				Ft. Worth, TX 76110
				(817) 926-7876