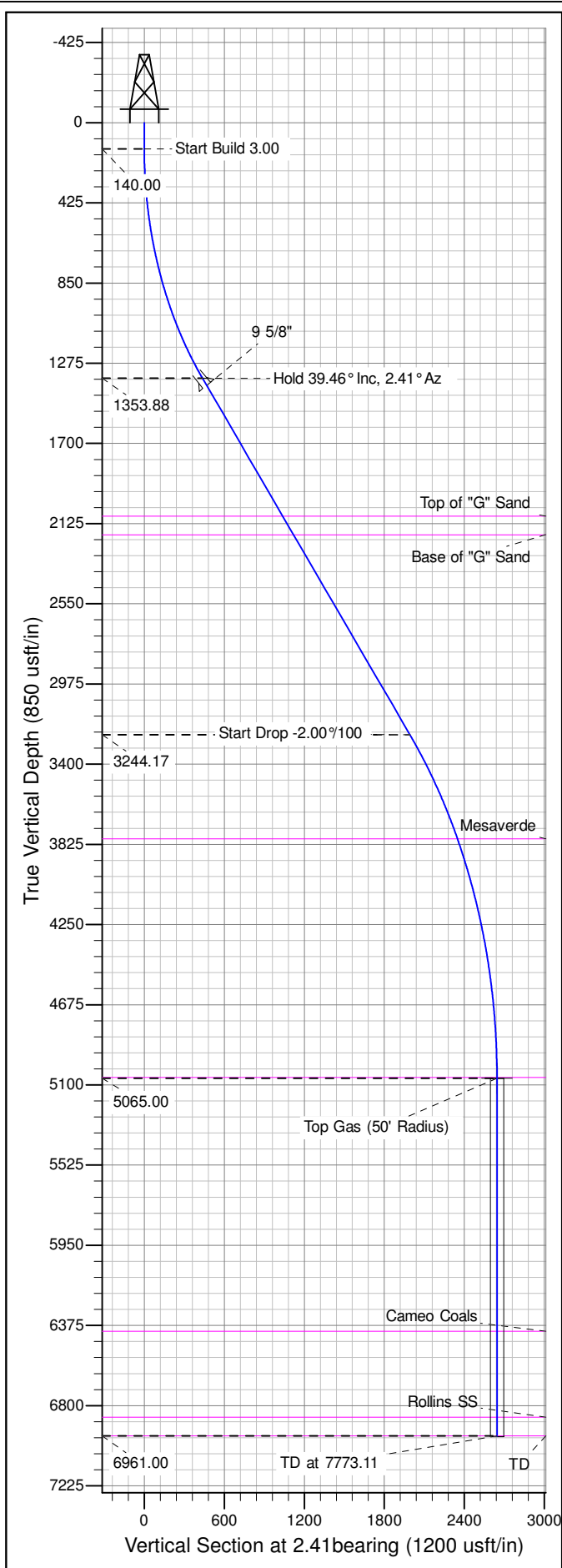
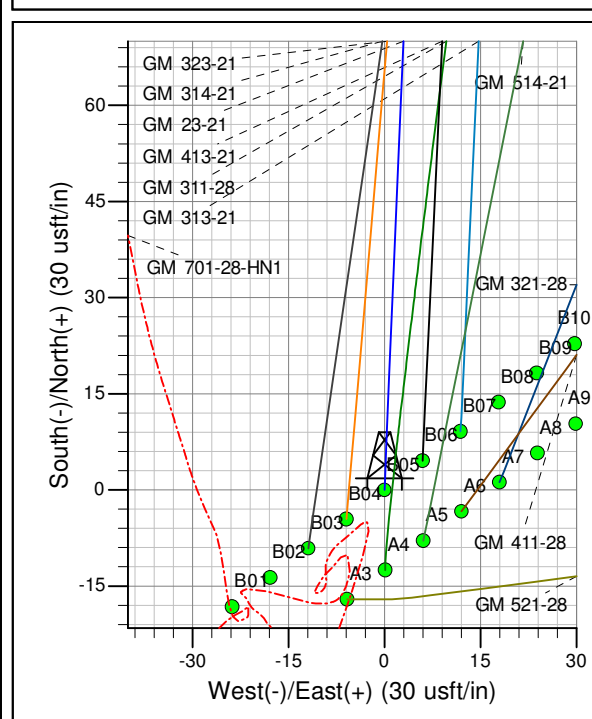
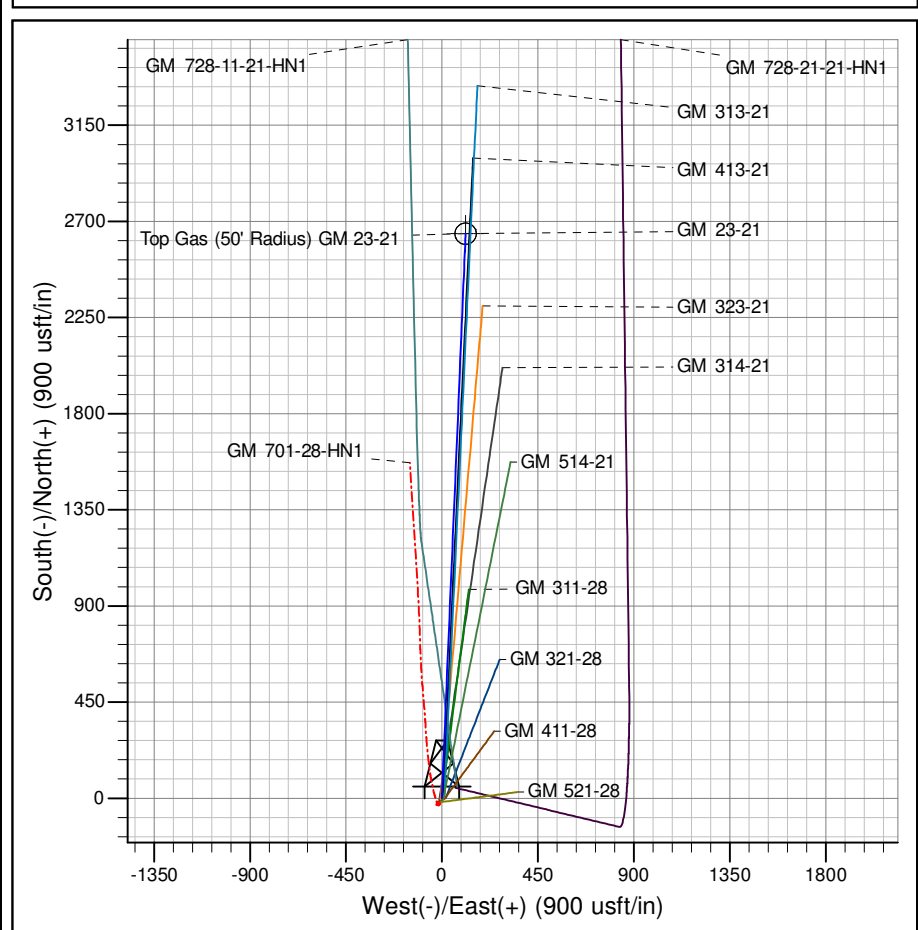




Well Name: GM 23-21
Surface Location: GM 11-28 Pad
North American Datum 1983 , US State Plane 1983 , Colorado Central Zone
Ground Elevation: 5604.00
+N/-S +E/-W Northing Easting Latitude Longitude Slot
0.00 0.00 1617272.98000 2260931.04000 39.49894 -108.11942 B05
KELLY BUSHING @ 5630.00usft (Nabors 573 (26' RKB) mab)



ANNOTATIONS									
TVD	MD	Inc	Azi	+N/-S	+E/-W	Vsect	Departure	Annotation	
140.00	140.00	0.00	0.00		0.00	0.00	0.00	Start Build 3.00	Start Build 3.00
1353.88	1455.45	39.46	2.41	435.01	18.33	435.39	435.39	Hold 39.46° Inc, 2.41° Az	Hold 39.46° Inc, 2.41° Az
3244.17	3903.93	39.46	2.41	1989.85	83.83	1991.61	1991.61	Start Drop -2.00°/100	Start Drop -2.00°/100
5065.00	5877.11	0.00	0.00	2642.36	111.32	2644.71	2644.71	Top Gas	Top Gas
6961.00	7773.11	0.00	0.00	2642.36	111.32	2644.71	2644.71	TD at 7773.11	TD at 7773.11



Azimuths to True North
Magnetic North: 10.15°

Magnetic Field
Strength: 52037.1snT
Dip Angle: 65.66°
Date: 6/14/2013
Model: IGRF2010

Project: GV 28-06S-096W
Site: GM 11-28 Pad
Well: GM 23-21
Plan #2 07Jul14 kjs

PICEANCE VLY NAD 83

GV 28-06S-096W

GM 11-28 Pad

GM 23-21 - Slot B05

Wellbore #1

Plan: Plan #2 07Jul14 kjs

Standard Planning Report - Geographic

28 August, 2014

WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well GM 23-21 - Slot B05
Company:	PICEANCE VLY NAD 83	TVD Reference:	KELLY BUSHING @ 5630.00usft (Nabors 573 (26' RKB) mab)
Project:	GV 28-06S-096W	MD Reference:	KELLY BUSHING @ 5630.00usft (Nabors 573 (26' RKB) mab)
Site:	GM 11-28 Pad	North Reference:	True
Well:	GM 23-21	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2 07Jul14 kjs		

Project	GV 28-06S-096W, 28-06S-096W		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Central Zone		Using geodetic scale factor

Site	GM 11-28 Pad			
Site Position:		Northing:	1,617,299.30000 usft	Latitude: 39.49901
From: Map		Easting:	2,260,967.51000 usft	Longitude: -108.11930
Position Uncertainty:	0.00 usft	Slot Radius:	13.200 in	Grid Convergence: -1.65 °

Well	GM 23-21 - Slot B05			
Well Position	+N/-S	0.00 usft	Northing:	1,617,272.98000 usft
	+E/-W	0.00 usft	Easting:	2,260,931.04000 usft
Position Uncertainty	0.00 usft		Wellhead Elevation:	
			Ground Level:	5,604.00 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	6/14/2013	10.15	65.66	52,037

Design	Plan #2 07Jul14 kjs			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (bearing)
	0.00	0.00	0.00	2.41

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (bearing)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
140.00	0.00	0.00	140.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,455.45	39.46	2.41	1,353.88	435.01	18.33	3.00	3.00	0.00	2.41	
3,903.93	39.46	2.41	3,244.17	1,989.85	83.83	0.00	0.00	0.00	0.00	
5,877.11	0.00	0.00	5,065.00	2,642.36	111.32	2.00	-2.00	0.00	180.00	Top Gas (50' Radius)
7,773.11	0.00	0.00	6,961.00	2,642.36	111.32	0.00	0.00	0.00	0.00	

WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well GM 23-21 - Slot B05
Company:	PICEANCE VLY NAD 83	TVD Reference:	KELLY BUSHING @ 5630.00usft (Nabors 573 (26' RKB) mab)
Project:	GV 28-06S-096W	MD Reference:	KELLY BUSHING @ 5630.00usft (Nabors 573 (26' RKB) mab)
Site:	GM 11-28 Pad	North Reference:	True
Well:	GM 23-21	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2 07Jul14 kjs		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (bearing)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
0.00	0.00	0.00	0.00	0.00	0.00	1,617,272.98000	2,260,931.04000	39.49894	-108.11943	
140.00	0.00	0.00	140.00	0.00	0.00	1,617,272.98000	2,260,931.04000	39.49894	-108.11943	
Start Build 3.00										
200.00	1.80	2.41	199.99	0.94	0.04	1,617,273.91999	2,260,931.10679	39.49894	-108.11943	
400.00	7.80	2.41	399.20	17.65	0.74	1,617,290.60517	2,260,932.29239	39.49899	-108.11942	
600.00	13.80	2.41	595.57	55.08	2.32	1,617,327.96861	2,260,934.94732	39.49909	-108.11942	
800.00	19.80	2.41	786.94	112.81	4.75	1,617,385.60094	2,260,939.04251	39.49925	-108.11941	
1,000.00	25.80	2.41	971.23	190.21	8.01	1,617,462.87072	2,260,944.53307	39.49946	-108.11940	
1,200.00	31.80	2.41	1,146.41	286.43	12.07	1,617,558.93138	2,260,951.35886	39.49973	-108.11938	
1,400.00	37.80	2.41	1,310.57	400.42	16.87	1,617,672.73044	2,260,959.44508	39.50004	-108.11937	
1,455.45	39.46	2.41	1,353.88	435.01	18.33	1,617,707.26178	2,260,961.89878	39.50013	-108.11936	
Hold 39.46° Inc, 2.41° Az										
1,505.45	39.46	2.41	1,392.48	466.76	19.66	1,617,738.95714	2,260,964.15096	39.50022	-108.11936	
9 5/8"										
1,600.00	39.46	2.41	1,465.48	526.80	22.19	1,617,798.89848	2,260,968.41021	39.50039	-108.11935	
1,800.00	39.46	2.41	1,619.88	653.80	27.54	1,617,925.69138	2,260,977.41974	39.50073	-108.11933	
2,000.00	39.46	2.41	1,774.29	780.81	32.89	1,618,052.48427	2,260,986.42927	39.50108	-108.11931	
2,200.00	39.46	2.41	1,928.69	907.81	38.25	1,618,179.27716	2,260,995.43880	39.50143	-108.11929	
2,400.00	39.46	2.41	2,083.10	1,034.82	43.60	1,618,306.07006	2,261,004.44832	39.50178	-108.11927	
2,402.46	39.46	2.41	2,085.00	1,036.38	43.66	1,618,307.63026	2,261,004.55919	39.50178	-108.11927	
Top of "G" Sand										
2,531.99	39.46	2.41	2,185.00	1,118.64	47.13	1,618,389.74702	2,261,010.39416	39.50201	-108.11926	
Base of "G" Sand										
2,600.00	39.46	2.41	2,237.51	1,161.82	48.95	1,618,432.86294	2,261,013.45785	39.50213	-108.11925	
2,800.00	39.46	2.41	2,391.91	1,288.83	54.30	1,618,559.65584	2,261,022.46738	39.50248	-108.11923	
3,000.00	39.46	2.41	2,546.32	1,415.83	59.65	1,618,686.44874	2,261,031.47691	39.50283	-108.11921	
3,200.00	39.46	2.41	2,700.72	1,542.84	65.00	1,618,813.24163	2,261,040.48644	39.50318	-108.11919	
3,400.00	39.46	2.41	2,855.13	1,669.84	70.35	1,618,940.03452	2,261,049.49597	39.50352	-108.11918	
3,600.00	39.46	2.41	3,009.53	1,796.85	75.70	1,619,066.82742	2,261,058.50550	39.50387	-108.11916	
3,800.00	39.46	2.41	3,163.94	1,923.85	81.05	1,619,193.62031	2,261,067.51502	39.50422	-108.11914	
3,903.93	39.46	2.41	3,244.17	1,989.85	83.83	1,619,259.50587	2,261,072.19666	39.50440	-108.11913	
Start Drop -2.00°/100										
4,000.00	37.54	2.41	3,319.36	2,049.60	86.35	1,619,319.16137	2,261,076.43560	39.50457	-108.11912	
4,200.00	33.54	2.41	3,482.06	2,165.74	91.24	1,619,435.10115	2,261,084.67394	39.50489	-108.11910	
4,400.00	29.54	2.41	3,652.48	2,270.25	95.64	1,619,539.43782	2,261,092.08779	39.50517	-108.11909	
4,562.45	26.29	2.41	3,796.00	2,346.23	98.84	1,619,615.29228	2,261,097.47779	39.50538	-108.11907	
Mesaverde										
4,600.00	25.54	2.41	3,829.77	2,362.63	99.54	1,619,631.66304	2,261,098.64105	39.50543	-108.11907	
4,800.00	21.54	2.41	4,013.09	2,442.43	102.90	1,619,711.32752	2,261,104.30177	39.50564	-108.11906	
5,000.00	17.54	2.41	4,201.53	2,509.25	105.71	1,619,778.04313	2,261,109.04238	39.50583	-108.11905	
5,200.00	13.54	2.41	4,394.18	2,562.79	107.97	1,619,831.48484	2,261,112.83979	39.50598	-108.11904	
5,400.00	9.54	2.41	4,590.09	2,602.76	109.65	1,619,871.39229	2,261,115.67550	39.50609	-108.11904	
5,600.00	5.54	2.41	4,788.32	2,628.98	110.76	1,619,897.57105	2,261,117.53568	39.50616	-108.11903	
5,800.00	1.54	2.41	4,987.90	2,641.33	111.28	1,619,909.89358	2,261,118.41129	39.50619	-108.11903	
5,873.11	0.08	2.41	5,061.00	2,642.36	111.32	1,619,910.92580	2,261,118.48463	39.50619	-108.11903	
Approx. Top Gas										
5,877.11	0.00	0.00	5,065.00	2,642.36	111.32	1,619,910.92858	2,261,118.48483	39.50619	-108.11903	
Top Gas										
6,000.00	0.00	0.00	5,187.89	2,642.36	111.32	1,619,910.92858	2,261,118.48483	39.50619	-108.11903	
6,200.00	0.00	0.00	5,387.89	2,642.36	111.32	1,619,910.92858	2,261,118.48483	39.50619	-108.11903	
6,400.00	0.00	0.00	5,587.89	2,642.36	111.32	1,619,910.92858	2,261,118.48483	39.50619	-108.11903	
6,600.00	0.00	0.00	5,787.89	2,642.36	111.32	1,619,910.92858	2,261,118.48483	39.50619	-108.11903	

WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well GM 23-21 - Slot B05
Company:	PICEANCE VLY NAD 83	TVD Reference:	KELLY BUSHING @ 5630.00usft (Nabors 573 (26' RKB) mab)
Project:	GV 28-06S-096W	MD Reference:	KELLY BUSHING @ 5630.00usft (Nabors 573 (26' RKB) mab)
Site:	GM 11-28 Pad	North Reference:	True
Well:	GM 23-21	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2 07Jul14 kjs		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (bearing)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
6,800.00	0.00	0.00	5,987.89	2,642.36	111.32	1,619,910.92858	2,261,118.48483	39.50619	-108.11903
7,000.00	0.00	0.00	6,187.89	2,642.36	111.32	1,619,910.92858	2,261,118.48483	39.50619	-108.11903
7,200.00	0.00	0.00	6,387.89	2,642.36	111.32	1,619,910.92858	2,261,118.48483	39.50619	-108.11903
7,218.11	0.00	0.00	6,406.00	2,642.36	111.32	1,619,910.92858	2,261,118.48483	39.50619	-108.11903
Cameo Coals									
7,400.00	0.00	0.00	6,587.89	2,642.36	111.32	1,619,910.92858	2,261,118.48483	39.50619	-108.11903
7,600.00	0.00	0.00	6,787.89	2,642.36	111.32	1,619,910.92858	2,261,118.48483	39.50619	-108.11903
7,673.11	0.00	0.00	6,861.00	2,642.36	111.32	1,619,910.92858	2,261,118.48483	39.50619	-108.11903
Rollins SS									
7,773.11	0.00	0.00	6,961.00	2,642.36	111.32	1,619,910.92858	2,261,118.48483	39.50619	-108.11903
TD at 7773.11 - TD									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (bearing)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
Top Gas (50' Radius) G1	0.00	0.00	5,065.00	2,642.36	111.32	1,619,910.92858	2,261,118.48483	39.50619	-108.11903
- plan hits target center									
- Circle (radius 50.00)									

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (in)	Hole Diameter (in)	
1,505.45	1,392.48	9 5/8"	9.625	13.500	

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (bearing)	
2,402.46	2,085.00	Top of "G" Sand				
2,531.99	2,185.00	Base of "G" Sand				
4,562.45	3,796.00	Mesaverde				
5,873.11	5,061.00	Approx. Top Gas				
7,218.11	6,406.00	Cameo Coals				
7,673.11	6,861.00	Rollins SS				
7,773.11	6,961.00	TD				

WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well GM 23-21 - Slot B05
Company:	PICEANCE VLY NAD 83	TVD Reference:	KELLY BUSHING @ 5630.00usft (Nabors 573 (26' RKB) mab)
Project:	GV 28-06S-096W	MD Reference:	KELLY BUSHING @ 5630.00usft (Nabors 573 (26' RKB) mab)
Site:	GM 11-28 Pad	North Reference:	True
Well:	GM 23-21	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2 07Jul14 kjs		

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
140.00	140.00	0.00	0.00	Start Build 3.00
1,455.45	1,353.88	435.01	18.33	Hold 39.46° Inc, 2.41° Az
3,903.93	3,244.17	1,989.85	83.83	Start Drop -2.00°/100
5,877.11	5,065.00	2,642.36	111.32	Top Gas
7,773.11	6,961.00	2,642.36	111.32	TD at 7773.11