



US ROCKIES REGION PLANNING

COLORADO NORTHERN ZONE - 83

WELD_WIEDMAN PAD

P_WIEDEMAN 22-5

P_WIEDEMAN 22-5

Plan: PLAN #1 5-25-10 RHS

Standard Planning Report

26 May, 2010





Project: COLORADO NORTHERN ZONE - 83
 Site: WELD_WIEDMAN PAD
 Well: P_WIEDEMAN 22-5
 Wellbore: P_WIEDEMAN 22-5
 Section: SECTION 5 T5N R65W
 SHL: 1164 FNL 1384 FWL
 Design: PLAN #1 5-25-10 RHS
 Latitude: 40° 26' 2.069 N
 Longitude: 104° 48' 24.782 W
 GL: 4753.00
 KB: WELL @ 4768.00ft (Original Well Elev)



Weatherford



Azimuths to True North
 Magnetic North: 9.03°

Magnetic Field
 Strength: 53256.8snT
 Dip Angle: 67.11°
 Date: 5/25/2010
 Model: IGRF2010

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
3464.00	3637.26	PARKMAN
4174.00	4417.57	SUSSEX
6778.00	7099.76	NIO
7113.00	7434.76	CODELL
7190.00	7511.76	GREENHORN

CASING DETAILS

TVD	MD	Name	Size
800.00	800.00	8 5/8"	8.62

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	Start Build 2.00
2125.48	24.51	187.83	2088.45	-255.73	-35.18	2.00	187.83	258.14	Start 2748.79 hold at 2125.48 MD
4874.28	24.51	187.83	4589.55	-1385.42	-190.59	0.00	0.00	1398.47	Start Drop -2.00
6099.76	0.00	0.00	5778.00	-1641.16	-225.77	2.00	180.00	1656.61	Start 1495.00 hold at 6099.76 MD
7594.76	0.00	0.00	7273.00	-1641.16	-225.77	0.00	0.00	1656.61	TD at 7594.76

WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)

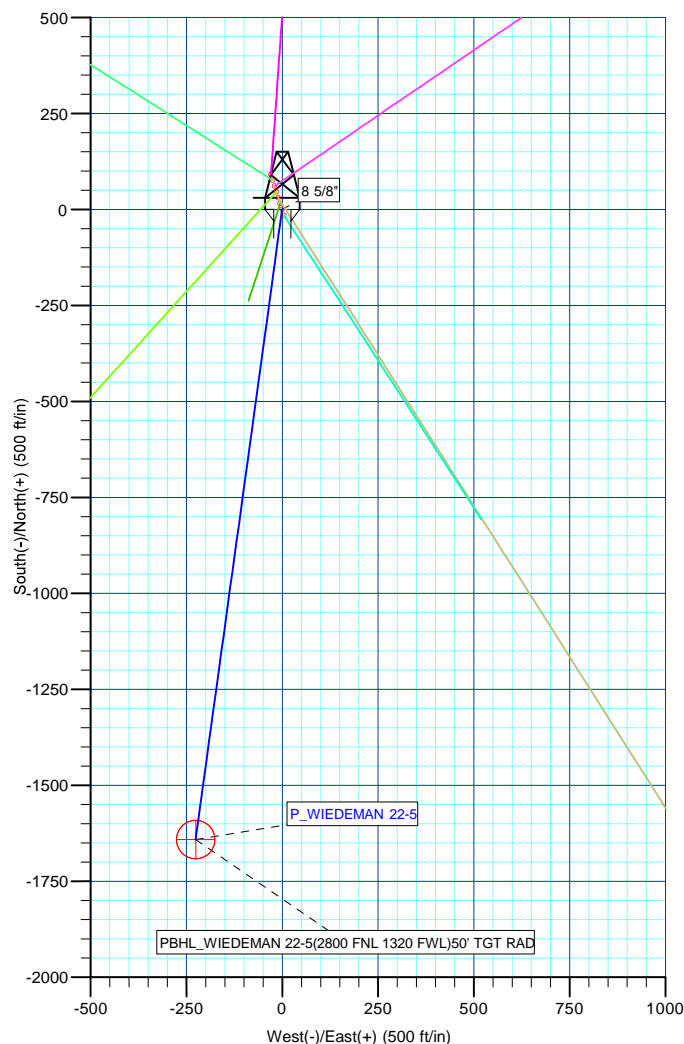
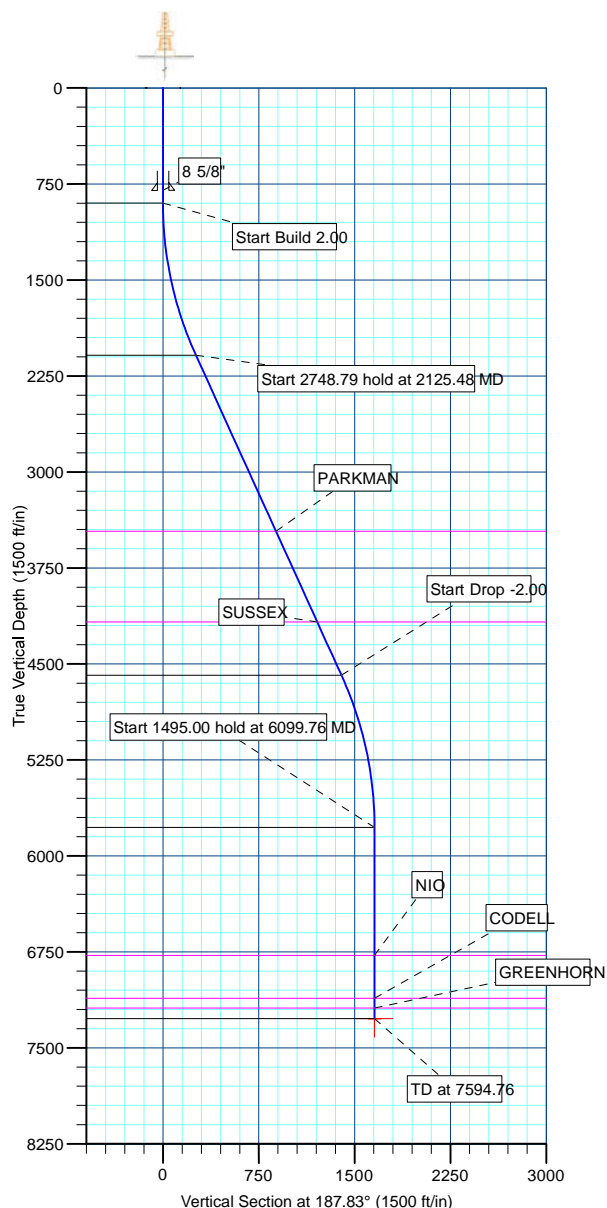
Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
PBHL	7273.00	-1641.16	-225.77	40° 25' 45.851 N	104° 48' 27.702 W	Circle (Radius: 50.00)

WELL DETAILS: P_WIEDEMAN 22-5

+N/-S	+E/-W	Northing	Ground Level:	4753.00	Latitude	Longitude	Slot
0.00	0.00	1401667.06	Easting	3192941.47	40° 26' 2.069 N	104° 48' 24.782 W	

LEGEND

- P_WIEDEMAN 18-5, P_WIEDEMAN 18-5, PLAN #1 5-25-10 RHS V0
- P_WIEDEMAN 25-5, P_WIEDEMAN 25-5, PLAN #1 5-25-10 RHS V0
- P_WIEDEMAN 29-5, P_WIEDEMAN 29-5, PLAN #1 5-25-10 RHS V0
- P_WIEDEMAN 3-5, P_WIEDEMAN 3-5, PLAN #1 5-25-10 RHS V0
- P_WIEDEMAN 4-5, P_WIEDEMAN 4-5, PLAN #1 5-25-10 RHS V0
- P_WIEDEMAN 5-5, P_WIEDEMAN 5-5, PLAN #1 5-25-10 RHS V0
- P_WIEDEMAN 6-5, P_WIEDEMAN 6-5, PLAN #1 5-25-10 RHS V0
- PLAN #1 5-25-10 RHS



Plan: PLAN #1 5-25-10 RHS (P_WIEDEMAN 22-5/P_WIEDEMAN 22-5)

Created By: Robert H. Scott Date: 8:10, May 26 2010

Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Well P_WIEDEMAN 22-5
Company:	US ROCKIES REGION PLANNING	TVD Reference:	WELL @ 4768.00ft (Original Well Elev)
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	WELL @ 4768.00ft (Original Well Elev)
Site:	WELD_WIEDMAN PAD	North Reference:	True
Well:	P_WIEDEMAN 22-5	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_WIEDEMAN 22-5		
Design:	PLAN #1 5-25-10 RHS		

Project	COLORADO NORTHERN ZONE - 83, KERR MCGEE OIL & GAS ONSHORE LP		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Northern Zone		

Site		WELD_WIEDMAN PAD, SECTION 5 T5N R65W			
Site Position:		Northing:	1,401,682.33ft	Latitude:	40° 26' 2.220 N
From:	Lat/Long	Easting:	3,192,936.34ft	Longitude:	104° 48' 24.847 W
Position Uncertainty:	0.00 ft	Slot Radius:	in	Grid Convergence:	0.45 °

Well	P_WIEDEMAN 22-5					
Well Position	+N/-S	-15.32 ft	Northing:	1,401,667.06 ft	Latitude:	40° 26' 2.069 N
	+E/-W	5.01 ft	Easting:	3,192,941.47 ft	Longitude:	104° 48' 24.782 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	4,753.00 ft

Wellbore	P_WIEDEMAN 22-5				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	5/25/2010	9.03	67.11	53,257

Design	PLAN #1 5-25-10 RHS			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	187.83

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,125.48	24.51	187.83	2,088.45	-255.73	-35.18	2.00	2.00	0.00	187.83	
4,874.28	24.51	187.83	4,589.55	-1,385.42	-190.59	0.00	0.00	0.00	0.00	
6,099.76	0.00	0.00	5,778.00	-1,641.16	-225.77	2.00	-2.00	0.00	180.00	
7,594.76	0.00	0.00	7,273.00	-1,641.16	-225.77	0.00	0.00	0.00	0.00	PBHL_WIEDEMAN

Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Well P_WIEDEMAN 22-5
Company:	US ROCKIES REGION PLANNING	TVD Reference:	WELL @ 4768.00ft (Original Well Elev)
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	WELL @ 4768.00ft (Original Well Elev)
Site:	WELD_WIEDMAN PAD	North Reference:	True
Well:	P_WIEDEMAN 22-5	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_WIEDEMAN 22-5		
Design:	PLAN #1 5-25-10 RHS		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
Start Build 2.00									
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	2.00	187.83	999.98	-1.73	-0.24	1.75	2.00	2.00	0.00
1,100.00	4.00	187.83	1,099.84	-6.91	-0.95	6.98	2.00	2.00	0.00
1,200.00	6.00	187.83	1,199.45	-15.55	-2.14	15.69	2.00	2.00	0.00
1,300.00	8.00	187.83	1,298.70	-27.62	-3.80	27.88	2.00	2.00	0.00
1,400.00	10.00	187.83	1,397.47	-43.12	-5.93	43.52	2.00	2.00	0.00
1,500.00	12.00	187.83	1,495.62	-62.02	-8.53	62.60	2.00	2.00	0.00
1,600.00	14.00	187.83	1,593.06	-84.30	-11.60	85.10	2.00	2.00	0.00
1,700.00	16.00	187.83	1,689.64	-109.94	-15.12	110.98	2.00	2.00	0.00
1,800.00	18.00	187.83	1,785.27	-138.90	-19.11	140.21	2.00	2.00	0.00
1,900.00	20.00	187.83	1,879.82	-171.16	-23.55	172.77	2.00	2.00	0.00
2,000.00	22.00	187.83	1,973.17	-206.66	-28.43	208.60	2.00	2.00	0.00
2,100.00	24.00	187.83	2,065.21	-245.36	-33.75	247.67	2.00	2.00	0.00
Start 2748.79 hold at 2125.48 MD									
2,125.48	24.51	187.83	2,088.45	-255.73	-35.18	258.14	2.00	2.00	0.00
2,200.00	24.51	187.83	2,156.25	-286.36	-39.39	289.06	0.00	0.00	0.00
2,300.00	24.51	187.83	2,247.24	-327.46	-45.05	330.54	0.00	0.00	0.00
2,400.00	24.51	187.83	2,338.23	-368.55	-50.70	372.02	0.00	0.00	0.00
2,500.00	24.51	187.83	2,429.22	-409.65	-56.36	413.51	0.00	0.00	0.00
2,600.00	24.51	187.83	2,520.21	-450.75	-62.01	454.99	0.00	0.00	0.00
2,700.00	24.51	187.83	2,611.20	-491.85	-67.66	496.48	0.00	0.00	0.00
2,800.00	24.51	187.83	2,702.19	-532.94	-73.32	537.96	0.00	0.00	0.00
2,900.00	24.51	187.83	2,793.17	-574.04	-78.97	579.45	0.00	0.00	0.00
3,000.00	24.51	187.83	2,884.16	-615.14	-84.62	620.93	0.00	0.00	0.00
3,100.00	24.51	187.83	2,975.15	-656.24	-90.28	662.42	0.00	0.00	0.00
3,200.00	24.51	187.83	3,066.14	-697.33	-95.93	703.90	0.00	0.00	0.00
3,300.00	24.51	187.83	3,157.13	-738.43	-101.59	745.39	0.00	0.00	0.00
3,400.00	24.51	187.83	3,248.12	-779.53	-107.24	786.87	0.00	0.00	0.00
3,500.00	24.51	187.83	3,339.11	-820.63	-112.89	828.36	0.00	0.00	0.00
3,600.00	24.51	187.83	3,430.10	-861.72	-118.55	869.84	0.00	0.00	0.00
PARKMAN									
3,637.26	24.51	187.83	3,464.00	-877.04	-120.65	885.30	0.00	0.00	0.00
3,700.00	24.51	187.83	3,521.09	-902.82	-124.20	911.33	0.00	0.00	0.00
3,800.00	24.51	187.83	3,612.08	-943.92	-129.86	952.81	0.00	0.00	0.00
3,900.00	24.51	187.83	3,703.07	-985.02	-135.51	994.29	0.00	0.00	0.00
4,000.00	24.51	187.83	3,794.05	-1,026.11	-141.16	1,035.78	0.00	0.00	0.00
4,100.00	24.51	187.83	3,885.04	-1,067.21	-146.82	1,077.26	0.00	0.00	0.00
4,200.00	24.51	187.83	3,976.03	-1,108.31	-152.47	1,118.75	0.00	0.00	0.00
4,300.00	24.51	187.83	4,067.02	-1,149.41	-158.12	1,160.23	0.00	0.00	0.00
4,400.00	24.51	187.83	4,158.01	-1,190.51	-163.78	1,201.72	0.00	0.00	0.00
SUSSEX									
4,417.57	24.51	187.83	4,174.00	-1,197.73	-164.77	1,209.01	0.00	0.00	0.00
4,500.00	24.51	187.83	4,249.00	-1,231.60	-169.43	1,243.20	0.00	0.00	0.00
4,600.00	24.51	187.83	4,339.99	-1,272.70	-175.09	1,284.69	0.00	0.00	0.00
4,700.00	24.51	187.83	4,430.98	-1,313.80	-180.74	1,326.17	0.00	0.00	0.00
4,800.00	24.51	187.83	4,521.97	-1,354.90	-186.39	1,367.66	0.00	0.00	0.00
Start Drop -2.00									
4,874.28	24.51	187.83	4,589.55	-1,385.42	-190.59	1,398.47	0.00	0.00	0.00
4,900.00	24.00	187.83	4,613.00	-1,395.89	-192.03	1,409.04	2.00	-2.00	0.00
5,000.00	22.00	187.83	4,705.05	-1,434.59	-197.36	1,448.10	2.00	-2.00	0.00
5,100.00	20.00	187.83	4,798.41	-1,470.08	-202.24	1,483.93	2.00	-2.00	0.00
5,200.00	18.00	187.83	4,892.96	-1,502.32	-206.68	1,516.47	2.00	-2.00	0.00

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Company:	US ROCKIES REGION PLANNING	TVD Reference:	WELL @ 4768.00ft (Original Well Elev)
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	WELL @ 4768.00ft (Original Well Elev)
Site:	WELD_WIEDMAN PAD	North Reference:	True
Well:	P_WIEDEMAN 22-5	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_WIEDEMAN 22-5		
Design:	PLAN #1 5-25-10 RHS		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,300.00	16.00	187.83	4,988.59	-1,531.28	-210.66	1,545.70	2.00	-2.00	0.00
5,400.00	14.00	187.83	5,085.18	-1,556.91	-214.18	1,571.57	2.00	-2.00	0.00
5,500.00	12.00	187.83	5,182.61	-1,579.19	-217.25	1,594.06	2.00	-2.00	0.00
5,600.00	10.00	187.83	5,280.77	-1,598.08	-219.85	1,613.13	2.00	-2.00	0.00
5,700.00	8.00	187.83	5,379.54	-1,613.57	-221.98	1,628.77	2.00	-2.00	0.00
5,800.00	6.00	187.83	5,478.79	-1,625.63	-223.64	1,640.94	2.00	-2.00	0.00
5,900.00	4.00	187.83	5,578.40	-1,634.26	-224.83	1,649.65	2.00	-2.00	0.00
6,000.00	2.00	187.83	5,678.26	-1,639.43	-225.54	1,654.88	2.00	-2.00	0.00
Start 1495.00 hold at 6099.76 MD									
6,099.76	0.00	0.00	5,778.00	-1,641.16	-225.77	1,656.61	2.00	-2.00	0.00
6,100.00	0.00	0.00	5,778.24	-1,641.16	-225.77	1,656.61	0.00	0.00	0.00
6,200.00	0.00	0.00	5,878.24	-1,641.16	-225.77	1,656.61	0.00	0.00	0.00
6,300.00	0.00	0.00	5,978.24	-1,641.16	-225.77	1,656.61	0.00	0.00	0.00
6,400.00	0.00	0.00	6,078.24	-1,641.16	-225.77	1,656.61	0.00	0.00	0.00
6,500.00	0.00	0.00	6,178.24	-1,641.16	-225.77	1,656.61	0.00	0.00	0.00
6,600.00	0.00	0.00	6,278.24	-1,641.16	-225.77	1,656.61	0.00	0.00	0.00
6,700.00	0.00	0.00	6,378.24	-1,641.16	-225.77	1,656.61	0.00	0.00	0.00
6,800.00	0.00	0.00	6,478.24	-1,641.16	-225.77	1,656.61	0.00	0.00	0.00
6,900.00	0.00	0.00	6,578.24	-1,641.16	-225.77	1,656.61	0.00	0.00	0.00
7,000.00	0.00	0.00	6,678.24	-1,641.16	-225.77	1,656.61	0.00	0.00	0.00
NIO									
7,099.76	0.00	0.00	6,778.00	-1,641.16	-225.77	1,656.61	0.00	0.00	0.00
7,100.00	0.00	0.00	6,778.24	-1,641.16	-225.77	1,656.61	0.00	0.00	0.00
7,200.00	0.00	0.00	6,878.24	-1,641.16	-225.77	1,656.61	0.00	0.00	0.00
7,300.00	0.00	0.00	6,978.24	-1,641.16	-225.77	1,656.61	0.00	0.00	0.00
7,400.00	0.00	0.00	7,078.24	-1,641.16	-225.77	1,656.61	0.00	0.00	0.00
CODELL									
7,434.76	0.00	0.00	7,113.00	-1,641.16	-225.77	1,656.61	0.00	0.00	0.00
7,500.00	0.00	0.00	7,178.24	-1,641.16	-225.77	1,656.61	0.00	0.00	0.00
GREENHORN									
7,511.76	0.00	0.00	7,190.00	-1,641.16	-225.77	1,656.61	0.00	0.00	0.00
PBHL_WIEDEMAN 22-5(2800 FNL 1320 FWL)50' TGT RAD									
7,594.76	0.00	0.00	7,273.00	-1,641.16	-225.77	1,656.61	0.00	0.00	0.00

Design Targets

Target Name

- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- Shape									
PBHL_WIEDEMAN 2:	0.00	0.00	7,273.00	-1,641.16	-225.77	1,400,024.19	3,192,728.53	40° 25' 45.851 N	104° 48' 27.702 W
- plan hits target center									
- Circle (radius 50.00)									

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)
800.00	800.00	8 5/8"	8.62	11.00

Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Well P_WIEDEMAN 22-5
Company:	US ROCKIES REGION PLANNING	TVD Reference:	WELL @ 4768.00ft (Original Well Elev)
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	WELL @ 4768.00ft (Original Well Elev)
Site:	WELD_WIEDMAN PAD	North Reference:	True
Well:	P_WIEDEMAN 22-5	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_WIEDEMAN 22-5		
Design:	PLAN #1 5-25-10 RHS		

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,637.26	3,464.00	PARKMAN			
4,417.57	4,174.00	SUSSEX			
7,099.76	6,778.00	NIO			
7,434.76	7,113.00	CODELL			
7,511.76	7,190.00	GREENHORN			

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
900.00	900.00	0.00	0.00	Start Build 2.00
2,125.48	2,088.45	-255.73	-35.18	Start 2748.79 hold at 2125.48 MD
4,874.28	4,589.55	-1,385.42	-190.59	Start Drop -2.00
6,099.76	5,778.00	-1,641.16	-225.77	Start 1495.00 hold at 6099.76 MD
7,594.76	7,273.00	-1,641.16	-225.77	TD at 7594.76