

EOG Resources

Lea County, NM (Nad27)
Red Hills West 16 State
Red Hills West 16 State 3H
Wellbore #1

Plan: Plan # 1122111

EOG Resources

21 December, 2011



30-025-40412

JAN 26 2012

Phoenix Technology Services
EOG Resources



Company:	EOG Resources	Local Co-ordinate Reference:	Well Red Hills West 16 State 3H
Project:	Lea County, NM (Nad27)	TVD Reference:	Well @ 3244.90usft (Original Well Elev)
Site:	Red Hills West 16 State	MD Reference:	Well @ 3244.90usft (Original Well Elev)
Well:	Red Hills West 16 State 3H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan # 1122111	Database:	GCR DB v5000

Project: Lea County, NM (Nad27)			
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site		Red Hills West 16 State									
Site Position:		Northing:		382,382.50 usft		Latitude:		32° 2' 58.675 N			
From:		Map		Easting:		700,544.80 usft		Longitude:		103° 41' 9.818 W	
Position Uncertainty:		0.00 usft		Slot Radius:		13-3/16 "		Grid Convergence:		0.34 °	

Well		Red Hills West 16 State 3H				
Well Position	+N/-S	0.00 usft	Northing:	382,404.10 usft	Latitude:	32° 2' 58.728 N
	+E/-W	0.00 usft	Easting:	703,241.10 usft	Longitude:	103° 40' 38.490 W
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,214.90 usft	

Wellbore		Wellbore #1			
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010_14	12/21/11	7.56	59.99	48,449

Design:	Plan # 1122111			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	182.79

Survey Tool Program		Date 12/21/11		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0 00	13,590.40	Plan # 1122111 (Wellbore #1)	MWD	MWD - Standard

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Well:	Red Hills West 16 State 3H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan # 1122111	Database:	GCR DB v5000

Planned Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVDSS (usft)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)	
0.00	0.00	0.00	-3,244.90	0.00	0.00	0.00	0.00	0.00	382,404.10	703,241.10	
100.00	0.00	0.00	-3,144.90	100.00	0.00	0.00	0.00	0.00	382,404.10	703,241.10	
200.00	0.00	0.00	-3,044.90	200.00	0.00	0.00	0.00	0.00	382,404.10	703,241.10	
300.00	0.00	0.00	-2,944.90	300.00	0.00	0.00	0.00	0.00	382,404.10	703,241.10	
400.00	0.00	0.00	-2,844.90	400.00	0.00	0.00	0.00	0.00	382,404.10	703,241.10	
500.00	0.00	0.00	-2,744.90	500.00	0.00	0.00	0.00	0.00	382,404.10	703,241.10	
600.00	0.00	0.00	-2,644.90	600.00	0.00	0.00	0.00	0.00	382,404.10	703,241.10	
700.00	0.00	0.00	-2,544.90	700.00	0.00	0.00	0.00	0.00	382,404.10	703,241.10	
800.00	0.00	0.00	-2,444.90	800.00	0.00	0.00	0.00	0.00	382,404.10	703,241.10	
900.00	0.00	0.00	-2,344.90	900.00	0.00	0.00	0.00	0.00	382,404.10	703,241.10	
1,000.00	0.00	0.00	-2,244.90	1,000.00	0.00	0.00	0.00	0.00	382,404.10	703,241.10	
1,100.00	0.00	0.00	-2,144.90	1,100.00	0.00	0.00	0.00	0.00	382,404.10	703,241.10	
1,200.00	0.00	0.00	-2,044.90	1,200.00	0.00	0.00	0.00	0.00	382,404.10	703,241.10	
1,300.00	0.00	0.00	-1,944.90	1,300.00	0.00	0.00	0.00	0.00	382,404.10	703,241.10	
1,400.00	0.00	0.00	-1,844.90	1,400.00	0.00	0.00	0.00	0.00	382,404.10	703,241.10	
1,500.00	0.00	0.00	-1,744.90	1,500.00	0.00	0.00	0.00	0.00	382,404.10	703,241.10	
1,600.00	0.00	0.00	-1,644.90	1,600.00	0.00	0.00	0.00	0.00	382,404.10	703,241.10	
1,700.00	0.00	0.00	-1,544.90	1,700.00	0.00	0.00	0.00	0.00	382,404.10	703,241.10	
1,800.00	0.00	0.00	-1,444.90	1,800.00	0.00	0.00	0.00	0.00	382,404.10	703,241.10	
1,900.00	0.00	0.00	-1,344.90	1,900.00	0.00	0.00	0.00	0.00	382,404.10	703,241.10	
2,000.00	0.00	0.00	-1,244.90	2,000.00	0.00	0.00	0.00	0.00	382,404.10	703,241.10	
2,100.00	0.00	0.00	-1,144.90	2,100.00	0.00	0.00	0.00	0.00	382,404.10	703,241.10	
2,200.00	0.00	0.00	-1,044.90	2,200.00	0.00	0.00	0.00	0.00	382,404.10	703,241.10	
2,300.00	0.00	0.00	-944.90	2,300.00	0.00	0.00	0.00	0.00	382,404.10	703,241.10	
2,400.00	0.00	0.00	-844.90	2,400.00	0.00	0.00	0.00	0.00	382,404.10	703,241.10	
2,500.00	0.00	0.00	-744.90	2,500.00	0.00	0.00	0.00	0.00	382,404.10	703,241.10	
2,600.00	0.00	0.00	-644.90	2,600.00	0.00	0.00	0.00	0.00	382,404.10	703,241.10	

Phoenix Technology Services
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Well:	Red Hills West 16 State 3H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan # 1122111	Database:	GCR DB v5000

Planned Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVDSS (usft)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
2,700.00	0.00	0.00	-544.90	2,700.00	0.00	0.00	0.00	0.00	382,404.10	703,241.10
2,800.00	0.00	0.00	-444.90	2,800.00	0.00	0.00	0.00	0.00	382,404.10	703,241.10
2,900.00	0.00	0.00	-344.90	2,900.00	0.00	0.00	0.00	0.00	382,404.10	703,241.10
3,000.00	0.00	0.00	-244.90	3,000.00	0.00	0.00	0.00	0.00	382,404.10	703,241.10
3,100.00	0.00	0.00	-144.90	3,100.00	0.00	0.00	0.00	0.00	382,404.10	703,241.10
3,200.00	0.00	0.00	-44.90	3,200.00	0.00	0.00	0.00	0.00	382,404.10	703,241.10
3,300.00	0.00	0.00	55.10	3,300.00	0.00	0.00	0.00	0.00	382,404.10	703,241.10
3,400.00	0.00	0.00	155.10	3,400.00	0.00	0.00	0.00	0.00	382,404.10	703,241.10
3,500.00	0.00	0.00	255.10	3,500.00	0.00	0.00	0.00	0.00	382,404.10	703,241.10
3,600.00	0.00	0.00	355.10	3,600.00	0.00	0.00	0.00	0.00	382,404.10	703,241.10
3,700.00	0.00	0.00	455.10	3,700.00	0.00	0.00	0.00	0.00	382,404.10	703,241.10
3,800.00	0.00	0.00	555.10	3,800.00	0.00	0.00	0.00	0.00	382,404.10	703,241.10
3,900.00	0.00	0.00	655.10	3,900.00	0.00	0.00	0.00	0.00	382,404.10	703,241.10
4,000.00	0.00	0.00	755.10	4,000.00	0.00	0.00	0.00	0.00	382,404.10	703,241.10
4,100.00	0.00	0.00	855.10	4,100.00	0.00	0.00	0.00	0.00	382,404.10	703,241.10
4,200.00	0.00	0.00	955.10	4,200.00	0.00	0.00	0.00	0.00	382,404.10	703,241.10
4,300.00	0.00	0.00	1,055.10	4,300.00	0.00	0.00	0.00	0.00	382,404.10	703,241.10
4,400.00	0.00	0.00	1,155.10	4,400.00	0.00	0.00	0.00	0.00	382,404.10	703,241.10
4,500.00	0.00	0.00	1,255.10	4,500.00	0.00	0.00	0.00	0.00	382,404.10	703,241.10
4,600.00	0.00	0.00	1,355.10	4,600.00	0.00	0.00	0.00	0.00	382,404.10	703,241.10
4,700.00	0.00	0.00	1,455.10	4,700.00	0.00	0.00	0.00	0.00	382,404.10	703,241.10
4,800.00	0.00	0.00	1,555.10	4,800.00	0.00	0.00	0.00	0.00	382,404.10	703,241.10
4,900.00	0.00	0.00	1,655.10	4,900.00	0.00	0.00	0.00	0.00	382,404.10	703,241.10
5,000.00	0.00	0.00	1,755.10	5,000.00	0.00	0.00	0.00	0.00	382,404.10	703,241.10
5,100.00	0.00	0.00	1,855.10	5,100.00	0.00	0.00	0.00	0.00	382,404.10	703,241.10
5,200.00	0.00	0.00	1,955.10	5,200.00	0.00	0.00	0.00	0.00	382,404.10	703,241.10
5,300.00	0.00	0.00	2,055.10	5,300.00	0.00	0.00	0.00	0.00	382,404.10	703,241.10

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5,400.00	0.00	0.00	2,155.10	5,400.00	0.00	0.00	0.00	0.00	382,404.10	703,241.10	
5,500.00	0.00	0.00	2,255.10	5,500.00	0.00	0.00	0.00	0.00	382,404.10	703,241.10	
5,600.00	0.00	0.00	2,355.10	5,600.00	0.00	0.00	0.00	0.00	382,404.10	703,241.10	
5,700.00	0.00	0.00	2,455.10	5,700.00	0.00	0.00	0.00	0.00	382,404.10	703,241.10	
5,800.00	0.00	0.00	2,555.10	5,800.00	0.00	0.00	0.00	0.00	382,404.10	703,241.10	
5,900.00	0.00	0.00	2,655.10	5,900.00	0.00	0.00	0.00	0.00	382,404.10	703,241.10	
6,000.00	0.00	0.00	2,755.10	6,000.00	0.00	0.00	0.00	0.00	382,404.10	703,241.10	
6,100.00	0.00	0.00	2,855.10	6,100.00	0.00	0.00	0.00	0.00	382,404.10	703,241.10	
6,200.00	0.00	0.00	2,955.10	6,200.00	0.00	0.00	0.00	0.00	382,404.10	703,241.10	
6,300.00	0.00	0.00	3,055.10	6,300.00	0.00	0.00	0.00	0.00	382,404.10	703,241.10	
6,400.00	0.00	0.00	3,155.10	6,400.00	0.00	0.00	0.00	0.00	382,404.10	703,241.10	
6,500.00	0.00	0.00	3,255.10	6,500.00	0.00	0.00	0.00	0.00	382,404.10	703,241.10	
6,600.00	0.00	0.00	3,355.10	6,600.00	0.00	0.00	0.00	0.00	382,404.10	703,241.10	
6,700.00	0.00	0.00	3,455.10	6,700.00	0.00	0.00	0.00	0.00	382,404.10	703,241.10	
6,800.00	0.00	0.00	3,555.10	6,800.00	0.00	0.00	0.00	0.00	382,404.10	703,241.10	
6,900.00	0.00	0.00	3,655.10	6,900.00	0.00	0.00	0.00	0.00	382,404.10	703,241.10	
7,000.00	0.00	0.00	3,755.10	7,000.00	0.00	0.00	0.00	0.00	382,404.10	703,241.10	
7,100.00	0.00	0.00	3,855.10	7,100.00	0.00	0.00	0.00	0.00	382,404.10	703,241.10	
7,200.00	0.00	0.00	3,955.10	7,200.00	0.00	0.00	0.00	0.00	382,404.10	703,241.10	
7,300.00	0.00	0.00	4,055.10	7,300.00	0.00	0.00	0.00	0.00	382,404.10	703,241.10	
7,400.00	0.00	0.00	4,155.10	7,400.00	0.00	0.00	0.00	0.00	382,404.10	703,241.10	
7,500.00	0.00	0.00	4,255.10	7,500.00	0.00	0.00	0.00	0.00	382,404.10	703,241.10	
7,600.00	0.00	0.00	4,355.10	7,600.00	0.00	0.00	0.00	0.00	382,404.10	703,241.10	
7,700.00	0.00	0.00	4,455.10	7,700.00	0.00	0.00	0.00	0.00	382,404.10	703,241.10	
7,800.00	0.00	0.00	4,555.10	7,800.00	0.00	0.00	0.00	0.00	382,404.10	703,241.10	
7,900.00	0.00	0.00	4,655.10	7,900.00	0.00	0.00	0.00	0.00	382,404.10	703,241.10	
8,000.00	0.00	0.00	4,755.10	8,000.00	0.00	0.00	0.00	0.00	382,404.10	703,241.10	

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Design:	Plan # 1122111	Database:	GCR DB v5000

Planned Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVDSS (usft)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	D Leg (°/100usft)	Northing (usft)	Easting (usft)	
8,100.00	0.00	0.00	4,855.10	8,100.00	0.00	0.00	0.00	0.00	382,404.10	703,241.10	
8,200.00	0.00	0.00	4,955.10	8,200.00	0.00	0.00	0.00	0.00	382,404.10	703,241.10	
8,300.00	0.00	0.00	5,055.10	8,300.00	0.00	0.00	0.00	0.00	382,404.10	703,241.10	
8,400.00	0.00	0.00	5,155.10	8,400.00	0.00	0.00	0.00	0.00	382,404.10	703,241.10	
8,472.54	0.00	0.00	5,227.64	8,472.54	0.00	0.00	0.00	0.00	382,404.10	703,241.10	
Start Build 12.00											
8,500.00	3.30	182.79	5,255.08	8,499.98	-0.79	-0.04	0.79	12.00	382,403.31	703,241.06	
8,600.00	15.30	182.79	5,353.59	8,598.49	-16.89	-0.82	16.91	12.00	382,387.21	703,240.28	
8,700.00	27.30	182.79	5,446.59	8,691.49	-53.10	-2.58	53.17	12.00	382,351.00	703,238.52	
8,800.00	39.30	182.79	5,530.03	8,774.93	-107.83	-5.25	107.96	12.00	382,296.27	703,235.85	
8,900.00	51.30	182.79	5,600.24	8,845.14	-178.69	-8.70	178.91	12.00	382,225.41	703,232.40	
9,000.00	63.30	182.79	5,654.17	8,899.07	-262.59	-12.78	262.90	12.00	382,141.51	703,228.32	
9,100.00	75.30	182.79	5,689.46	8,934.36	-355.85	-17.32	356.27	12.00	382,048.25	703,223.78	
9,200.00	87.30	182.79	5,704.57	8,949.47	-454.40	-22.11	454.94	12.00	381,949.70	703,218.99	
9,222.54	90.00	182.79	5,705.10	8,950.00	-476.90	-23.21	477.46	12.00	381,927.20	703,217.89	
Start 4367.86 hold at 9222.54 MD											
9,300.00	90.00	182.79	5,705.10	8,950.00	-554.27	-26.97	554.93	0.00	381,849.83	703,214.13	
9,400.00	90.00	182.79	5,705.10	8,950.00	-654.16	-31.83	654.93	0.00	381,749.94	703,209.27	
9,500.00	90.00	182.79	5,705.10	8,950.00	-754.04	-36.69	754.93	0.00	381,650.06	703,204.41	
9,600.00	90.00	182.79	5,705.10	8,950.00	-853.92	-41.55	854.93	0.00	381,550.18	703,199.55	
9,700.00	90.00	182.79	5,705.10	8,950.00	-953.80	-46.41	954.93	0.00	381,450.30	703,194.69	
9,800.00	90.00	182.79	5,705.10	8,950.00	-1,053.68	-51.27	1,054.93	0.00	381,350.42	703,189.83	
9,900.00	90.00	182.79	5,705.10	8,950.00	-1,153.56	-56.13	1,154.93	0.00	381,250.54	703,184.97	
10,000.00	90.00	182.79	5,705.10	8,950.00	-1,253.45	-60.99	1,254.93	0.00	381,150.65	703,180.11	
10,100.00	90.00	182.79	5,705.10	8,950.00	-1,353.33	-65.85	1,354.93	0.00	381,050.77	703,175.25	
10,200.00	90.00	182.79	5,705.10	8,950.00	-1,453.21	-70.71	1,454.93	0.00	380,950.89	703,170.39	
10,300.00	90.00	182.79	5,705.10	8,950.00	-1,553.09	-75.58	1,554.93	0.00	380,851.01	703,165.52	

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Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan # 1122111	Database:	GCR DB v5000

Planned Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVDS (usft)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
10,400.00	90.00	182.79	5,705.10	8,950.00	-1,652.97	-80.44	1,654.93	0.00	380,751.13	703,160.66
10,500.00	90.00	182.79	5,705.10	8,950.00	-1,752.86	-85.30	1,754.93	0.00	380,651.24	703,155.80
10,600.00	90.00	182.79	5,705.10	8,950.00	-1,852.74	-90.16	1,854.93	0.00	380,551.36	703,150.94
10,700.00	90.00	182.79	5,705.10	8,950.00	-1,952.62	-95.02	1,954.93	0.00	380,451.48	703,146.08
10,800.00	90.00	182.79	5,705.10	8,950.00	-2,052.50	-99.88	2,054.93	0.00	380,351.60	703,141.22
10,900.00	90.00	182.79	5,705.10	8,950.00	-2,152.38	-104.74	2,154.93	0.00	380,251.72	703,136.36
11,000.00	90.00	182.79	5,705.10	8,950.00	-2,252.26	-109.60	2,254.93	0.00	380,151.84	703,131.50
11,100.00	90.00	182.79	5,705.10	8,950.00	-2,352.15	-114.46	2,354.93	0.00	380,051.95	703,126.64
11,200.00	90.00	182.79	5,705.10	8,950.00	-2,452.03	-119.32	2,454.93	0.00	379,952.07	703,121.78
11,300.00	90.00	182.79	5,705.10	8,950.00	-2,551.91	-124.18	2,554.93	0.00	379,852.19	703,116.92
11,400.00	90.00	182.79	5,705.10	8,950.00	-2,651.79	-129.04	2,654.93	0.00	379,752.31	703,112.06
11,500.00	90.00	182.79	5,705.10	8,950.00	-2,751.67	-133.90	2,754.93	0.00	379,652.43	703,107.20
11,600.00	90.00	182.79	5,705.10	8,950.00	-2,851.56	-138.76	2,854.93	0.00	379,552.54	703,102.34
11,700.00	90.00	182.79	5,705.10	8,950.00	-2,951.44	-143.62	2,954.93	0.00	379,452.66	703,097.48
11,800.00	90.00	182.79	5,705.10	8,950.00	-3,051.32	-148.48	3,054.93	0.00	379,352.78	703,092.62
11,900.00	90.00	182.79	5,705.10	8,950.00	-3,151.20	-153.34	3,154.93	0.00	379,252.90	703,087.76
12,000.00	90.00	182.79	5,705.10	8,950.00	-3,251.08	-158.20	3,254.93	0.00	379,153.02	703,082.90
12,100.00	90.00	182.79	5,705.10	8,950.00	-3,350.96	-163.06	3,354.93	0.00	379,053.14	703,078.04
12,200.00	90.00	182.79	5,705.10	8,950.00	-3,450.85	-167.92	3,454.93	0.00	378,953.25	703,073.18
12,300.00	90.00	182.79	5,705.10	8,950.00	-3,550.73	-172.78	3,554.93	0.00	378,853.37	703,068.32
12,400.00	90.00	182.79	5,705.10	8,950.00	-3,650.61	-177.64	3,654.93	0.00	378,753.49	703,063.46
12,500.00	90.00	182.79	5,705.10	8,950.00	-3,750.49	-182.50	3,754.93	0.00	378,653.61	703,058.60
12,600.00	90.00	182.79	5,705.10	8,950.00	-3,850.37	-187.36	3,854.93	0.00	378,553.73	703,053.74
12,700.00	90.00	182.79	5,705.10	8,950.00	-3,950.26	-192.22	3,954.93	0.00	378,453.84	703,048.88
12,800.00	90.00	182.79	5,705.10	8,950.00	-4,050.14	-197.08	4,054.93	0.00	378,353.96	703,044.02
12,900.00	90.00	182.79	5,705.10	8,950.00	-4,150.02	-201.94	4,154.93	0.00	378,254.08	703,039.16
13,000.00	90.00	182.79	5,705.10	8,950.00	-4,249.90	-206.80	4,254.93	0.00	378,154.20	703,034.30

Phoenix Technology Services
EOG Resources



Company:	EOG Resources	Local Co-ordinate Reference:	Well Red Hills West 16 State 3H
Project:	Lea County, NM (Nad27)	TVD Reference:	Well @ 3244.90usft (Original Well Elev)
Site:	Red Hills West 16 State	MD Reference:	Well @ 3244.90usft (Original Well Elev)
Well:	Red Hills West 16 State 3H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan # 1122111	Database:	GCR DB v5000

Planned Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVDSS (usft)	TVD (usft)	N/S (usft)	E/W (usft)	V.Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
13,100.00	90.00	182.79	5,705.10	8,950.00	-4,349.78	-211.66	4,354.93	0.00	378,054.32	703,029.44
13,200.00	90.00	182.79	5,705.10	8,950.00	-4,449.66	-216.53	4,454.93	0.00	377,954.44	703,024.57
13,300.00	90.00	182.79	5,705.10	8,950.00	-4,549.55	-221.39	4,554.93	0.00	377,854.55	703,019.71
13,400.00	90.00	182.79	5,705.10	8,950.00	-4,649.43	-226.25	4,654.93	0.00	377,754.67	703,014.85
13,500.00	90.00	182.79	5,705.10	8,950.00	-4,749.31	-231.11	4,754.93	0.00	377,654.79	703,009.99
13,590.40	90.00	182.79	5,705.10	8,950.00	-4,839.60	-235.50	4,845.33	0.00	377,564.50	703,005.60
TD at 13590.40										

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
8,472.54	8,472.54	0.00	0.00	Start Build 12.00
9,222.54	8,950.00	-476.90	-23.21	Start 4367.86 hold at 9222.54 MD
13,590.40	8,950.00	-4,839.60	-235.50	TD at 13590.40

Checked By: _____ Approved By: _____ Date: _____