

EOG Resources

Lea County, NM (Nad27)
Red Hills West 16 State
Red Hills West 16 State 4H
Wellbore #1

Plan: Plan #1 122111

EOG Resources

21 December, 2011



30-025-40413

JAN 26 2012

Phoenix Technology Services
EOG Resources



Company:	EOG Resources	Local Co-ordinate Reference:	Well Red Hills West 16 State 4H
Project:	Lea County, NM (Nad27)	TVD Reference:	WELL @ 3258.20usft (Original Well Elev)
Site:	Red Hills West 16 State	MD Reference:	WELL @ 3258.20usft (Original Well Elev)
Well:	Red Hills West 16 State 4H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1 122111	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 4H					
Well Position	+N/-S	0.00 usft	Northing:	382,413.70 usft	Latitude:	32° 2' 58.743 N
	+E/-W	0.00 usft	Easting:	704,561.00 usft	Longitude:	103° 40' 23.154 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,228.20 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 #1 122111				
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	182.78

Survey Tool Program		Date	12/21/11		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0 00	13,580.99	Plan #1 122111 (Wellbore #1)	MWD	MWD - Standard	

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Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1 122111	Database:	GCR DB v5000

Planned Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVDSS (usft)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLag (°/100usft)	Northing (usft)	Easting (usft)	
0.00	0.00	0.00	-3,258.20	0.00	0.00	0.00	0.00	0.00	382,413.70	704,561.00	
100.00	0.00	0.00	-3,158.20	100.00	0.00	0.00	0.00	0.00	382,413.70	704,561.00	
200.00	0.00	0.00	-3,058.20	200.00	0.00	0.00	0.00	0.00	382,413.70	704,561.00	
300.00	0.00	0.00	-2,958.20	300.00	0.00	0.00	0.00	0.00	382,413.70	704,561.00	
400.00	0.00	0.00	-2,858.20	400.00	0.00	0.00	0.00	0.00	382,413.70	704,561.00	
500.00	0.00	0.00	-2,758.20	500.00	0.00	0.00	0.00	0.00	382,413.70	704,561.00	
600.00	0.00	0.00	-2,658.20	600.00	0.00	0.00	0.00	0.00	382,413.70	704,561.00	
700.00	0.00	0.00	-2,558.20	700.00	0.00	0.00	0.00	0.00	382,413.70	704,561.00	
800.00	0.00	0.00	-2,458.20	800.00	0.00	0.00	0.00	0.00	382,413.70	704,561.00	
900.00	0.00	0.00	-2,358.20	900.00	0.00	0.00	0.00	0.00	382,413.70	704,561.00	
1,000.00	0.00	0.00	-2,258.20	1,000.00	0.00	0.00	0.00	0.00	382,413.70	704,561.00	
1,100.00	0.00	0.00	-2,158.20	1,100.00	0.00	0.00	0.00	0.00	382,413.70	704,561.00	
1,200.00	0.00	0.00	-2,058.20	1,200.00	0.00	0.00	0.00	0.00	382,413.70	704,561.00	
1,300.00	0.00	0.00	-1,958.20	1,300.00	0.00	0.00	0.00	0.00	382,413.70	704,561.00	
1,400.00	0.00	0.00	-1,858.20	1,400.00	0.00	0.00	0.00	0.00	382,413.70	704,561.00	
1,500.00	0.00	0.00	-1,758.20	1,500.00	0.00	0.00	0.00	0.00	382,413.70	704,561.00	
1,600.00	0.00	0.00	-1,658.20	1,600.00	0.00	0.00	0.00	0.00	382,413.70	704,561.00	
1,700.00	0.00	0.00	-1,558.20	1,700.00	0.00	0.00	0.00	0.00	382,413.70	704,561.00	
1,800.00	0.00	0.00	-1,458.20	1,800.00	0.00	0.00	0.00	0.00	382,413.70	704,561.00	
1,900.00	0.00	0.00	-1,358.20	1,900.00	0.00	0.00	0.00	0.00	382,413.70	704,561.00	
2,000.00	0.00	0.00	-1,258.20	2,000.00	0.00	0.00	0.00	0.00	382,413.70	704,561.00	
2,100.00	0.00	0.00	-1,158.20	2,100.00	0.00	0.00	0.00	0.00	382,413.70	704,561.00	
2,200.00	0.00	0.00	-1,058.20	2,200.00	0.00	0.00	0.00	0.00	382,413.70	704,561.00	
2,300.00	0.00	0.00	-958.20	2,300.00	0.00	0.00	0.00	0.00	382,413.70	704,561.00	
2,400.00	0.00	0.00	-858.20	2,400.00	0.00	0.00	0.00	0.00	382,413.70	704,561.00	
2,500.00	0.00	0.00	-758.20	2,500.00	0.00	0.00	0.00	0.00	382,413.70	704,561.00	
2,600.00	0.00	0.00	-658.20	2,600.00	0.00	0.00	0.00	0.00	382,413.70	704,561.00	

Phoenix Technology Services
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Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1 122111	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	-558.20	2,700.00	0.00	0.00	0.00	0.00	382,413.70	704,561.00	
2,800.00	0.00	0.00	-458.20	2,800.00	0.00	0.00	0.00	0.00	382,413.70	704,561.00	
2,900.00	0.00	0.00	-358.20	2,900.00	0.00	0.00	0.00	0.00	382,413.70	704,561.00	
3,000.00	0.00	0.00	-258.20	3,000.00	0.00	0.00	0.00	0.00	382,413.70	704,561.00	
3,100.00	0.00	0.00	-158.20	3,100.00	0.00	0.00	0.00	0.00	382,413.70	704,561.00	
3,200.00	0.00	0.00	-58.20	3,200.00	0.00	0.00	0.00	0.00	382,413.70	704,561.00	
3,300.00	0.00	0.00	41.80	3,300.00	0.00	0.00	0.00	0.00	382,413.70	704,561.00	
3,400.00	0.00	0.00	141.80	3,400.00	0.00	0.00	0.00	0.00	382,413.70	704,561.00	
3,500.00	0.00	0.00	241.80	3,500.00	0.00	0.00	0.00	0.00	382,413.70	704,561.00	
3,600.00	0.00	0.00	341.80	3,600.00	0.00	0.00	0.00	0.00	382,413.70	704,561.00	
3,700.00	0.00	0.00	441.80	3,700.00	0.00	0.00	0.00	0.00	382,413.70	704,561.00	
3,800.00	0.00	0.00	541.80	3,800.00	0.00	0.00	0.00	0.00	382,413.70	704,561.00	
3,900.00	0.00	0.00	641.80	3,900.00	0.00	0.00	0.00	0.00	382,413.70	704,561.00	
4,000.00	0.00	0.00	741.80	4,000.00	0.00	0.00	0.00	0.00	382,413.70	704,561.00	
4,100.00	0.00	0.00	841.80	4,100.00	0.00	0.00	0.00	0.00	382,413.70	704,561.00	
4,200.00	0.00	0.00	941.80	4,200.00	0.00	0.00	0.00	0.00	382,413.70	704,561.00	
4,300.00	0.00	0.00	1,041.80	4,300.00	0.00	0.00	0.00	0.00	382,413.70	704,561.00	
4,400.00	0.00	0.00	1,141.80	4,400.00	0.00	0.00	0.00	0.00	382,413.70	704,561.00	
4,500.00	0.00	0.00	1,241.80	4,500.00	0.00	0.00	0.00	0.00	382,413.70	704,561.00	
4,600.00	0.00	0.00	1,341.80	4,600.00	0.00	0.00	0.00	0.00	382,413.70	704,561.00	
4,700.00	0.00	0.00	1,441.80	4,700.00	0.00	0.00	0.00	0.00	382,413.70	704,561.00	
4,800.00	0.00	0.00	1,541.80	4,800.00	0.00	0.00	0.00	0.00	382,413.70	704,561.00	
4,900.00	0.00	0.00	1,641.80	4,900.00	0.00	0.00	0.00	0.00	382,413.70	704,561.00	
5,000.00	0.00	0.00	1,741.80	5,000.00	0.00	0.00	0.00	0.00	382,413.70	704,561.00	
5,100.00	0.00	0.00	1,841.80	5,100.00	0.00	0.00	0.00	0.00	382,413.70	704,561.00	
5,200.00	0.00	0.00	1,941.80	5,200.00	0.00	0.00	0.00	0.00	382,413.70	704,561.00	
5,300.00	0.00	0.00	2,041.80	5,300.00	0.00	0.00	0.00	0.00	382,413.70	704,561.00	

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5,400.00	0.00	0.00	2,141.80	5,400.00	0.00	0.00	0.00	0.00	382,413.70	704,561.00	
5,500.00	0.00	0.00	2,241.80	5,500.00	0.00	0.00	0.00	0.00	382,413.70	704,561.00	
5,600.00	0.00	0.00	2,341.80	5,600.00	0.00	0.00	0.00	0.00	382,413.70	704,561.00	
5,700.00	0.00	0.00	2,441.80	5,700.00	0.00	0.00	0.00	0.00	382,413.70	704,561.00	
5,800.00	0.00	0.00	2,541.80	5,800.00	0.00	0.00	0.00	0.00	382,413.70	704,561.00	
5,900.00	0.00	0.00	2,641.80	5,900.00	0.00	0.00	0.00	0.00	382,413.70	704,561.00	
6,000.00	0.00	0.00	2,741.80	6,000.00	0.00	0.00	0.00	0.00	382,413.70	704,561.00	
6,100.00	0.00	0.00	2,841.80	6,100.00	0.00	0.00	0.00	0.00	382,413.70	704,561.00	
6,200.00	0.00	0.00	2,941.80	6,200.00	0.00	0.00	0.00	0.00	382,413.70	704,561.00	
6,300.00	0.00	0.00	3,041.80	6,300.00	0.00	0.00	0.00	0.00	382,413.70	704,561.00	
6,400.00	0.00	0.00	3,141.80	6,400.00	0.00	0.00	0.00	0.00	382,413.70	704,561.00	
6,500.00	0.00	0.00	3,241.80	6,500.00	0.00	0.00	0.00	0.00	382,413.70	704,561.00	
6,600.00	0.00	0.00	3,341.80	6,600.00	0.00	0.00	0.00	0.00	382,413.70	704,561.00	
6,700.00	0.00	0.00	3,441.80	6,700.00	0.00	0.00	0.00	0.00	382,413.70	704,561.00	
6,800.00	0.00	0.00	3,541.80	6,800.00	0.00	0.00	0.00	0.00	382,413.70	704,561.00	
6,900.00	0.00	0.00	3,641.80	6,900.00	0.00	0.00	0.00	0.00	382,413.70	704,561.00	
7,000.00	0.00	0.00	3,741.80	7,000.00	0.00	0.00	0.00	0.00	382,413.70	704,561.00	
7,100.00	0.00	0.00	3,841.80	7,100.00	0.00	0.00	0.00	0.00	382,413.70	704,561.00	
7,200.00	0.00	0.00	3,941.80	7,200.00	0.00	0.00	0.00	0.00	382,413.70	704,561.00	
7,300.00	0.00	0.00	4,041.80	7,300.00	0.00	0.00	0.00	0.00	382,413.70	704,561.00	
7,400.00	0.00	0.00	4,141.80	7,400.00	0.00	0.00	0.00	0.00	382,413.70	704,561.00	
7,500.00	0.00	0.00	4,241.80	7,500.00	0.00	0.00	0.00	0.00	382,413.70	704,561.00	
7,600.00	0.00	0.00	4,341.80	7,600.00	0.00	0.00	0.00	0.00	382,413.70	704,561.00	
7,700.00	0.00	0.00	4,441.80	7,700.00	0.00	0.00	0.00	0.00	382,413.70	704,561.00	
7,800.00	0.00	0.00	4,541.80	7,800.00	0.00	0.00	0.00	0.00	382,413.70	704,561.00	
7,900.00	0.00	0.00	4,641.80	7,900.00	0.00	0.00	0.00	0.00	382,413.70	704,561.00	
8,000.00	0.00	0.00	4,741.80	8,000.00	0.00	0.00	0.00	0.00	382,413.70	704,561.00	

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Design:	Plan #1 122111	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)	
8,100.00	0 00	0 00	4,841.80	8,100.00	0.00	0 00	0.00	0.00	382,413.70	704,561.00	
8,200.00	0.00	0.00	4,941.80	8,200.00	0.00	0.00	0.00	0.00	382,413.70	704,561.00	
8,300.00	0 00	0 00	5,041.80	8,300.00	0.00	0 00	0.00	0.00	382,413.70	704,561.00	
8,400.00	0.00	0.00	5,141.80	8,400.00	0.00	0 00	0.00	0.00	382,413.70	704,561.00	
8,462.54	0.00	0 00	5,204.34	8,462.54	0.00	0 00	0.00	0.00	382,413.70	704,561.00	
Start Build 12.00											
8,500.00	4.50	182.78	5,241.76	8,499.96	-1.47	-0.07	1.47	12.00	382,412.23	704,560.93	
8,600.00	16.50	182.78	5,339.91	8,598.11	-19.63	-0.95	19.65	12.00	382,394.07	704,560.05	
8,700.00	28.50	182.78	5,432.13	8,690.33	-57.78	-2.81	57.84	12.00	382,355.92	704,558.19	
8,800.00	40.50	182.78	5,514.40	8,772.60	-114.24	-5.56	114.37	12.00	382,299.46	704,555.44	
8,900.00	52.50	182.78	5,583.11	8,841.31	-186.55	-9.07	186.77	12.00	382,227.15	704,551.93	
9,000.00	64.50	182.78	5,635.27	8,893.47	-271.56	-13.21	271.88	12.00	382,142.14	704,547.79	
9,100.00	76.50	182.78	5,668.60	8,926.80	-365.54	-17.78	365.97	12.00	382,048.16	704,543.22	
9,200.00	88.50	182.78	5,681.64	8,939.84	-464.38	-22.58	464.93	12.00	381,949.32	704,538.42	
9,212.54	90.00	182.78	5,681.80	8,940.00	-476.90	-23.19	477.46	12.00	381,936.80	704,537.81	
Start 4368.46 hold at 9212.54 MD											
9,300.00	90.00	182.78	5,681.80	8,940.00	-564.26	-27.44	564.93	0.00	381,849.44	704,533.56	
9,400.00	90.00	182.78	5,681.80	8,940.00	-664.14	-32.30	664.93	0.00	381,749.56	704,528.70	
9,500.00	90.00	182.78	5,681.80	8,940.00	-764.03	-37.16	764.93	0.00	381,649.67	704,523.84	
9,600.00	90.00	182.78	5,681.80	8,940.00	-863.91	-42.02	864.93	0.00	381,549.79	704,518.98	
9,700.00	90.00	182.78	5,681.80	8,940.00	-963.79	-46.87	964.93	0.00	381,449.91	704,514.13	
9,800.00	90.00	182.78	5,681.80	8,940.00	-1,063.67	-51.73	1,064.93	0.00	381,350.03	704,509.27	
9,900.00	90.00	182.78	5,681.80	8,940.00	-1,163.55	-56.59	1,164.93	0.00	381,250.15	704,504.41	
10,000.00	90.00	182.78	5,681.80	8,940.00	-1,263.44	-61.45	1,264.93	0.00	381,150.26	704,499.55	
10,100.00	90.00	182.78	5,681.80	8,940.00	-1,363.32	-66.30	1,364.93	0.00	381,050.38	704,494.70	
10,200.00	90.00	182.78	5,681.80	8,940.00	-1,463.20	-71.16	1,464.93	0.00	380,950.50	704,489.84	
10,300.00	90.00	182.78	5,681.80	8,940.00	-1,563.08	-76.02	1,564.93	0.00	380,850.62	704,484.98	

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Well:	Red Hills West 16 State 4H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1 122111	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	182.78	5,681.80	8,940.00	-1,662.96	-80.88	1,664.93	0.00	380,750.74	704,480.12
10,500.00	90.00	182.78	5,681.80	8,940.00	-1,762.85	-85.73	1,764.93	0.00	380,650.85	704,475.27
10,600.00	90.00	182.78	5,681.80	8,940.00	-1,862.73	-90.59	1,864.93	0.00	380,550.97	704,470.41
10,700.00	90.00	182.78	5,681.80	8,940.00	-1,962.61	-95.45	1,964.93	0.00	380,451.09	704,465.55
10,800.00	90.00	182.78	5,681.80	8,940.00	-2,062.49	-100.31	2,064.93	0.00	380,351.21	704,460.69
10,900.00	90.00	182.78	5,681.80	8,940.00	-2,162.37	-105.17	2,164.93	0.00	380,251.33	704,455.83
11,000.00	90.00	182.78	5,681.80	8,940.00	-2,262.26	-110.02	2,264.93	0.00	380,151.44	704,450.98
11,100.00	90.00	182.78	5,681.80	8,940.00	-2,362.14	-114.88	2,364.93	0.00	380,051.56	704,446.12
11,200.00	90.00	182.78	5,681.80	8,940.00	-2,462.02	-119.74	2,464.93	0.00	379,951.68	704,441.26
11,300.00	90.00	182.78	5,681.80	8,940.00	-2,561.90	-124.60	2,564.93	0.00	379,851.80	704,436.40
11,400.00	90.00	182.78	5,681.80	8,940.00	-2,661.78	-129.45	2,664.93	0.00	379,751.92	704,431.55
11,500.00	90.00	182.78	5,681.80	8,940.00	-2,761.67	-134.31	2,764.93	0.00	379,652.03	704,426.69
11,600.00	90.00	182.78	5,681.80	8,940.00	-2,861.55	-139.17	2,864.93	0.00	379,552.15	704,421.83
11,700.00	90.00	182.78	5,681.80	8,940.00	-2,961.43	-144.03	2,964.93	0.00	379,452.27	704,416.97
11,800.00	90.00	182.78	5,681.80	8,940.00	-3,061.31	-148.88	3,064.93	0.00	379,352.39	704,412.12
11,900.00	90.00	182.78	5,681.80	8,940.00	-3,161.19	-153.74	3,164.93	0.00	379,252.51	704,407.26
12,000.00	90.00	182.78	5,681.80	8,940.00	-3,261.08	-158.60	3,264.93	0.00	379,152.62	704,402.40
12,100.00	90.00	182.78	5,681.80	8,940.00	-3,360.96	-163.46	3,364.93	0.00	379,052.74	704,397.54
12,200.00	90.00	182.78	5,681.80	8,940.00	-3,460.84	-168.32	3,464.93	0.00	378,952.86	704,392.68
12,300.00	90.00	182.78	5,681.80	8,940.00	-3,560.72	-173.17	3,564.93	0.00	378,852.98	704,387.83
12,400.00	90.00	182.78	5,681.80	8,940.00	-3,660.60	-178.03	3,664.93	0.00	378,753.10	704,382.97
12,500.00	90.00	182.78	5,681.80	8,940.00	-3,760.48	-182.89	3,764.93	0.00	378,653.22	704,378.11
12,600.00	90.00	182.78	5,681.80	8,940.00	-3,860.37	-187.75	3,864.93	0.00	378,553.33	704,373.25
12,700.00	90.00	182.78	5,681.80	8,940.00	-3,960.25	-192.60	3,964.93	0.00	378,453.45	704,368.40
12,800.00	90.00	182.78	5,681.80	8,940.00	-4,060.13	-197.46	4,064.93	0.00	378,353.57	704,363.54
12,900.00	90.00	182.78	5,681.80	8,940.00	-4,160.01	-202.32	4,164.93	0.00	378,253.69	704,358.68
13,000.00	90.00	182.78	5,681.80	8,940.00	-4,259.89	-207.18	4,264.93	0.00	378,153.81	704,353.82

Phoenix Technology Services
EOG Resources



Company:	EOG Resources	Local Co-ordinate Reference:	Well Red Hills West 16 State 4H
Project:	Lea County, NM (Nad27)	TVD Reference:	WELL @ 3258.20usft (Original Well Elev)
Site:	Red Hills West 16 State	MD Reference:	WELL @ 3258.20usft (Original Well Elev)
Well:	Red Hills West 16 State 4H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1 122111	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)	
13,100.00	90.00	182.78	5,681.80	8,940.00	-4,359.78	-212.03	4,364.93	0.00	378,053.92	704,348.97	
13,200.00	90.00	182.78	5,681.80	8,940.00	-4,459.66	-216.89	4,464.93	0.00	377,954.04	704,344.11	
13,300.00	90.00	182.78	5,681.80	8,940.00	-4,559.54	-221.75	4,564.93	0.00	377,854.16	704,339.25	
13,400.00	90.00	182.78	5,681.80	8,940.00	-4,659.42	-226.61	4,664.93	0.00	377,754.28	704,334.39	
13,500.00	90.00	182.78	5,681.80	8,940.00	-4,759.30	-231.47	4,764.93	0.00	377,654.40	704,329.53	
13,580.99	90.00	182.78	5,681.80	8,940.00	-4,840.20	-235.40	4,845.92	0.00	377,573.50	704,325.60	
TD at 13580.99											

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
8,462.54	8,462.54	0.00	0.00	Start Build 12.00
9,212.54	8,940.00	-476.90	-23.19	Start 4368.46 hold at 9212.54 MD
13,580.99	8,940.00	-4,840.20	-235.40	TD at 13580.99

Checked By: _____	Approved By: _____	Date: _____
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