EOG Resources

Lea County, NM (Nad27)
Pinchblende 29 Federal
Pinchblende 29 Fed Com 1H
Wellbore #1

Plan: Plan #1 093011

EOG Resources

30 September, 2011

PHOENIX
TECHNOLOGY SERVICES

30-025-40419

Phoenix Technology Services

EOG Resources

PHOENIX TECHNOLOGY SERVICES

Company:	EOG Resources	**Local Co-ordinate Reference:**	Well Pinchblende 29 Fed Com 1H
Project:	Lea County, NM (Nad27)	**TVD Reference:**	WELL @ 3351.20usft (Original Well Elev + 30' KB)
Site:	Pinchblende 29 Federal	**MD Reference:**	WELL @ 3351 20usft (Original Well Elev + 30' KB)
Well:	Pinchblende 29 Fed Com 1H	**North Reference:**	Grid
Wellbore:	Wellbore #1	**Survey Calculation Method:**	Minimum Curvature
Design:	Plan #1 093011	**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 Pinchblende 29 Federal

Site Position:		**Northing:**	399,326.40 usft	**Latitude:**	32° 5' 42.068 N
From:	Map	**Easting:**	762,920.20 usft	**Longitude:**	103° 29' 3.574 W
Position Uncertainty:	0.00 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0.45 °

Well Pinchblende 29 Fed Com 1H

Well Position	**+N/-S**	0.00 usft	**Northing:**	399,326.40 usft	**Latitude:**	32° 5' 42.068 N
	+E/-W	0.00 usft	**Easting:**	762,920.20 usft	**Longitude:**	103° 29' 3.574 W
Position Uncertainty		0.00 usft	**Wellhead Elevation:**	usft	**Ground Level:**	3,321.20 usft

Wellbore Wellbore #1

Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	IGRF2010_14	9/30/2011	7.50	60.08	48,520

Design Plan #1 093011

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	359.49

Survey Tool Program **Date** 9/30/2011

From (usft)	**To (usft)**	**Survey (Wellbore)**	**Tool Name**	**Description**
0.00	19,186.67	Plan #1 093011 (Wellbore #1)	MWD	MWD - Standard

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Wellbore:	Wellbore #1	**Survey Calculation Method:**	Minimum Curvature
Design:	Plan #1 093011	**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	-3,351.20	0.00	0.00	0.00	0.00	0.00	399,326.40	762,920.20
100.00	0.00	0.00	-3,251.20	100.00	0.00	0.00	0 00	0.00	399,326.40	762,920.20
200.00	0 00	0 00	-3,151 20	200.00	0.00	0.00	0.00	0.00	399,326.40	762,920 20
300 00	0.00	0 00	-3,051 20	300.00	0.00	0.00	0.00	0.00	399,326 40	762,920.20
400.00	0 00	0 00	-2,951.20	400.00	0.00	0.00	0.00	0.00	399,326.40	762,920.20
500.00	0.00	0.00	-2,851.20	500.00	0 00	0.00	0 00	0 00	399,326 40	762,920.20
600.00	0 00	0 00	-2,751 20	600.00	0 00	0.00	0 00	0.00	399,326.40	762,920.20
700.00	0.00	0.00	-2,651.20	700.00	0.00	0 00	0.00	0 00	399,326.40	762,920.20
800.00	0.00	0.00	-2,551.20	800.00	0.00	0.00	0 00	0.00	399,326.40	762,920.20
900.00	0.00	0.00	-2,451.20	900.00	0 00	0.00	0.00	0.00	399,326.40	762,920.20
1,000.00	0.00	0.00	-2,351.20	1,000.00	0.00	0.00	0.00	0.00	399,326.40	762,920.20
1,100.00	0.00	0.00	-2,251.20	1,100.00	0.00	0.00	0 00	0 00	399,326 40	762,920 20
1,200.00	0.00	0.00	-2,151.20	1,200 00	0.00	0.00	0.00	0.00	399,326 40	762,920.20
1,300 00	0.00	0.00	-2,051.20	1,300.00	0.00	0 00	0.00	0.00	399,326 40	762,920.20
1,400 00	0.00	0 00	-1,951.20	1,400.00	0 00	0.00	0.00	0.00	399,326 40	762,920 20
1,500.00	0.00	0.00	-1,851.20	1,500.00	0.00	0 00	0.00	0.00	399,326 40	762,920.20
1,600.00	0.00	0.00	-1,751.20	1,600.00	0.00	0.00	0.00	0.00	399,326.40	762,920.20
1,700.00	0.00	0.00	-1,651.20	1,700.00	0.00	0.00	0 00	0.00	399,326.40	762,920 20
1,800.00	0 00	0.00	-1,551.20	1,800.00	0.00	0.00	0 00	0.00	399,326.40	762,920.20
1,900.00	0.00	0.00	-1,451.20	1,900.00	0 00	0 00	0.00	0.00	399,326 40	762,920.20
2,000.00	0 00	0.00	-1,351.20	2,000.00	0 00	0.00	0 00	0.00	399,326.40	762,920.20
2,100.00	0 00	0.00	-1,251.20	2,100.00	0 00	0.00	0 00	0.00	399,326.40	762,920.20
2,200.00	0.00	0.00	-1,151 20	2,200.00	0 00	0 00	0.00	0.00	399,326 40	762,920.20
2,300.00	0 00	0.00	-1,051.20	2,300.00	0.00	0.00	0.00	0.00	399,326 40	762,920.20
2,400.00	0.00	0 00	-951.20	2,400.00	0.00	0.00	0.00	0.00	399,326 40	762,920.20
2,500.00	0.00	0.00	-851.20	2,500.00	0.00	0.00	0.00	0.00	399,326.40	762,920.20
2,600.00	0.00	0.00	-751 20	2,600 00	0 00	0.00	0.00	0.00	399,326.40	762,920.20

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Wellbore:	Wellbore #1	**Survey Calculation Method:**	Minimum Curvature
Design:	Plan #1 093011	**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	-651 20	2,700.00	0.00	0.00	0.00	0.00	399,326.40	762,920.20
2,800.00	0.00	0 00	-551.20	2,800.00	0.00	0.00	0.00	0.00	399,326.40	762,920.20
2,900 00	0.00	0.00	-451 20	2,900.00	0 00	0.00	0.00	0.00	399,326.40	762,920 20
3,000.00	0.00	0 00	-351 20	3,000.00	0.00	0.00	0.00	0.00	399,326.40	762,920.20
3,100.00	0.00	0.00	-251.20	3,100.00	0.00	0.00	0.00	0.00	399,326.40	762,920.20
3,200.00	0 00	0 00	-151.20	3,200.00	0 00	0 00	0 00	0 00	399,326 40	762,920.20
3,300.00	0.00	0.00	-51.20	3,300.00	0 00	0.00	0.00	0.00	399,326.40	762,920 20
3,400.00	0 00	0.00	48.80	3,400.00	0.00	0.00	0.00	0.00	399,326.40	762,920 20
3,500.00	0 00	0 00	148.80	3,500 00	0.00	0 00	0.00	0.00	399,326.40	762,920.20
3,600.00	0.00	0.00	248.80	3,600.00	0 00	0.00	0 00	0 00	399,326.40	762,920.20
3,700 00	0.00	0.00	348.80	3,700 00	0.00	0 00	0.00	0.00	399,326 40	762,920.20
3,800.00	0.00	0.00	448.80	3,800.00	0 00	0 00	0.00	0.00	399,326.40	762,920.20
3,900.00	0 00	0.00	548.80	3,900.00	0.00	0.00	0.00	0.00	399,326.40	762,920.20
4,000.00	0.00	0.00	648 80	4,000.00	0 00	0.00	0.00	0.00	399,326.40	762,920.20
4,100 00	0.00	0.00	748.80	4,100.00	0.00	0 00	0.00	0.00	399,326 40	762,920.20
4,200.00	0.00	0 00	848.80	4,200.00	0 00	0 00	0.00	0 00	399,326.40	762,920.20
4,300.00	0.00	0.00	948 80	4,300 00	0.00	0.00	0.00	0.00	399,326.40	762,920.20
4,400.00	0.00	0.00	1,048 80	4,400 00	0 00	0 00	0.00	0.00	399,326.40	762,920.20
4,500.00	0.00	0.00	1,148 80	4,500 00	0 00	0 00	0 00	0.00	399,326.40	762,920.20
4,600.00	0.00	0.00	1,248 80	4,600.00	0 00	0.00	0.00	0.00	399,326.40	762,920.20
4,700.00	0.00	0.00	1,348.80	4,700 00	0 00	0.00	0 00	0.00	399,326.40	762,920.20
4,800.00	0.00	0 00	1,448.80	4,800 00	0 00	0.00	0 00	0.00	399,326.40	762,920.20
4,900.00	0.00	0 00	1,548 80	4,900.00	0.00	0.00	0.00	0 00	399,326.40	762,920.20
5,000.00	0.00	0.00	1,648 80	5,000 00	0.00	0 00	0.00	0.00	399,326.40	762,920.20
5,100.00	0.00	0.00	1,748.80	5,100.00	0.00	0.00	0.00	0.00	399,326 40	762,920.20
5,200.00	0.00	0 00	1,848.80	5,200.00	0 00	0 00	0.00	0.00	399,326 40	762,920.20
5,300.00	0.00	0.00	1,948.80	5,300.00	0 00	0.00	0.00	0.00	399,326.40	762,920.20

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Wellbore:	Wellbore #1	**Survey Calculation Method:**	Minimum Curvature
Design:	Plan #1 093011	**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)
5,400.00	0.00	0.00	2,048.80	5,400 00	0.00	0.00	0 00	0.00	399,326 40	762,920.20
5,500.00	0.00	0.00	2,148.80	5,500.00	0.00	0.00	0 00	0.00	399,326.40	762,920 20
5,600.00	0 00	0.00	2,248 80	5,600.00	0 00	0.00	0.00	0.00	399,326.40	762,920.20
5,700.00	0.00	0.00	2,348 80	5,700.00	0 00	0 00	0.00	0.00	399,326.40	762,920.20
5,800.00	0.00	0 00	2,448 80	5,800.00	0 00	0.00	0 00	0 00	399,326 40	762,920.20
5,900.00	0.00	0.00	2,548.80	5,900.00	0 00	0.00	0.00	0.00	399,326 40	762,920.20
6,000.00	0.00	0.00	2,648.80	6,000.00	0.00	0.00	0.00	0.00	399,326.40	762,920.20
6,100.00	0.00	0.00	2,748.80	6,100.00	0 00	0.00	0 00	0.00	399,326 40	762,920.20
6,200.00	0.00	0.00	2,848.80	6,200.00	0.00	0.00	0 00	0.00	399,326.40	762,920.20
6,300.00	0.00	0.00	2,948.80	6,300 00	0.00	0 00	0.00	0.00	399,326.40	762,920.20
6,400 00	0.00	0.00	3,048.80	6,400.00	0.00	0.00	0.00	0.00	399,326.40	762,920.20
6,500 00	0.00	0.00	3,148.80	6,500 00	0 00	0.00	0 00	0.00	399,326.40	762,920.20
6,600.00	0.00	0.00	3,248.80	6,600.00	0 00	0.00	0 00	0 00	399,326.40	762,920.20
6,700.00	0.00	0.00	3,348.80	6,700.00	0.00	0.00	0 00	0.00	399,326.40	762,920 20
6,800 00	0 00	0.00	3,448 80	6,800.00	0.00	0 00	0.00	0.00	399,326.40	762,920.20
6,900.00	0.00	0 00	3,548 80	6,900.00	0.00	0.00	0.00	0.00	399,326 40	762,920.20
7,000.00	0.00	0.00	3,648.80	7,000 00	0.00	0.00	0.00	0.00	399,326 40	762,920.20
7,100.00	0.00	0.00	3,748.80	7,100 00	0.00	0.00	0.00	0.00	399,326.40	762,920.20
7,200.00	0 00	0 00	3,848.80	7,200.00	0.00	0.00	0.00	0 00	399,326.40	762,920.20
7,300.00	0.00	0.00	3,948.80	7,300 00	0.00	0.00	0 00	0.00	399,326.40	762,920.20
7,400 00	0.00	0 00	4,048.80	7,400.00	0.00	0.00	0 00	0.00	399,326.40	762,920 20
7,500.00	0.00	0 00	4,148.80	7,500.00	0.00	0.00	0.00	0.00	399,326 40	762,920.20
7,600.00	0.00	0.00	4,248.80	7,600.00	0 00	0.00	0.00	0.00	399,326.40	762,920 20
7,700.00	0.00	0.00	4,348 80	7,700.00	0 00	0.00	0.00	0.00	399,326.40	762,920 20
7,800 00	0 00	0.00	4,448.80	7,800.00	0.00	0.00	0.00	0.00	399,326 40	762,920.20
7,900.00	0.00	0.00	4,548 80	7,900.00	0 00	0 00	0.00	0.00	399,326.40	762,920.20
8,000.00	0.00	0.00	4,648.80	8,000.00	0 00	0.00	0.00	0.00	399,326.40	762,920.20

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8,100.00	0.00	0.00	4,748.80	8,100 00	0 00	0.00	0.00	0.00	399,326 40	762,920.20
8,200.00	0.00	0.00	4,848.80	8,200 00	0.00	0.00	0.00	0.00	399,326.40	762,920.20
8,300.00	0 00	0.00	4,948.80	8,300.00	0.00	0.00	0 00	0.00	399,326.40	762,920.20
8,400 00	0.00	0.00	5,048 80	8,400.00	0.00	0.00	0.00	0.00	399,326.40	762,920.20
8,500.00	0.00	0.00	5,148.80	8,500.00	0.00	0.00	0.00	0 00	399,326.40	762,920 20
8,600.00	0.00	0.00	5,248.80	8,600.00	0.00	0.00	0.00	0 00	399,326.40	762,920 20
8,700.00	0.00	0 00	5,348.80	8,700 00	0 00	0.00	0 00	0.00	399,326 40	762,920.20
8,800.00	0.00	0.00	5,448.80	8,800 00	0.00	0.00	0.00	0.00	399,326.40	762,920.20
8,900.00	0.00	0 00	5,548.80	8,900 00	0.00	0 00	0.00	0.00	399,326 40	762,920.20
9,000.00	0.00	0.00	5,648.80	9,000.00	0.00	0.00	0.00	0.00	399,326 40	762,920.20
9,022.54	0 00	0 00	5,671.34	9,022 54	0.00	0.00	0.00	0.00	399,326.40	762,920.20
Start 12°/100' Build @ 9022' MD										
9,100 00	9.30	359 49	5,748.46	9,099.66	6.27	-0 06	6.27	12.00	399,332.67	762,920.14
9,200.00	21.30	359.49	5,844.74	9,195.94	32.60	-0 29	32 60	12 00	399,359 00	762,919.91
9,300.00	33.30	359.49	5,933.44	9,284 64	78.37	-0.70	78 38	12 00	399,404.77	762,919 50
9,400 00	45.30	359.49	6,010 69	9,361 89	141.59	-1.27	141.59	12.00	399,467.99	762,918.93
9,500.00	57.30	359 49	6,073 11	9,424 31	219.48	-1.97	219.49	12.00	399,545.88	762,918.23
9,600.00	69 30	359.49	6,117 96	9,469.16	308.65	-2.77	308 66	12.00	399,635.05	762,917.43
9,700.00	81.30	359.49	6,143.30	9,494.50	405 19	-3 64	405.21	12.00	399,731.59	762,916.56
9,772.54	90 00	359.49	6,148.80	9,500.00	477.45	-4.29	477.46	12.00	399,803.85	762,915.91
Start 9414' Hold @ 9772' MD										
9,800.00	90 00	359.49	6,148 80	9,500.00	504.91	-4.54	504.93	0.00	399,831.31	762,915.66
9,900.00	90.00	359 49	6,148.80	9,500 00	604.91	-5.44	604.93	0 00	399,931.31	762,914.76
10,000 00	90.00	359.49	6,148 80	9,500 00	704.90	-6.34	704.93	0.00	400,031.30	762,913.86
10,100.00	90.00	359 49	6,148.80	9,500.00	804.90	-7.23	804.93	0 00	400,131.30	762,912.97
10,200.00	90.00	359.49	6,148.80	9,500.00	904.89	-8.13	904 93	0.00	400,231.29	762,912.07
10,300.00	90.00	359.49	6,148.80	9,500.00	1,004.89	-9.03	1,004.93	0.00	400,331.29	762,911.17

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10,400.00	90.00	359.49	6,148.80	9,500.00	1,104.89	-9.93	1,104 93	0.00	400,431 29	762,910.27
10,500.00	90.00	359.49	6,148.80	9,500.00	1,204.88	-10.83	1,204.93	0.00	400,531.28	762,909.37
10,600 00	90.00	359.49	6,148.80	9,500.00	1,304.88	-11 73	1,304.93	0.00	400,631.28	762,908.47
10,700 00	90 00	359.49	6,148 80	9,500.00	1,404.87	-12.63	1,404.93	0.00	400,731.27	762,907 57
10,800.00	90.00	359.49	6,148.80	9,500.00	1,504.87	-13 53	1,504.93	0.00	400,831.27	762,906.67
10,900.00	90.00	359.49	6,148.80	9,500.00	1,604 86	-14.42	1,604.93	0.00	400,931 26	762,905.78
11,000 00	90.00	359.49	6,148 80	9,500.00	1,704 86	-15.32	1,704.93	0.00	401,031.26	762,904.88
11,100.00	90.00	359.49	6,148 80	9,500.00	1,804 86	-16.22	1,804.93	0.00	401,131.26	762,903.98
11,200 00	90 00	359 49	6,148 80	9,500.00	1,904.85	-17.12	1,904 93	0.00	401,231.25	762,903.08
11,300.00	90.00	359.49	6,148.80	9,500.00	2,004.85	-18.02	2,004.93	0.00	401,331.25	762,902 18
11,400.00	90 00	359 49	6,148.80	9,500.00	2,104.84	-18.92	2,104 93	0.00	401,431.24	762,901.28
11,500.00	90.00	359.49	6,148.80	9,500 00	2,204 84	-19.82	2,204.93	0.00	401,531.24	762,900.38
11,600.00	90.00	359.49	6,148.80	9,500.00	2,304.84	-20.72	2,304.93	0 00	401,631.24	762,899.48
11,700 00	90.00	359.49	6,148.80	9,500.00	2,404.83	-21 61	2,404 93	0.00	401,731.23	762,898 59
11,800.00	90.00	359.49	6,148.80	9,500 00	2,504.83	-22.51	2,504.93	0.00	401,831.23	762,897.69
11,900 00	90 00	359 49	6,148.80	9,500.00	2,604 82	-23.41	2,604.93	0.00	401,931.22	762,896 79
12,000.00	90.00	359.49	6,148.80	9,500.00	2,704.82	-24.31	2,704 93	0.00	402,031.22	762,895 89
12,100.00	90.00	359.49	6,148 80	9,500 00	2,804 82	-25.21	2,804.93	0.00	402,131.22	762,894.99
12,200 00	90.00	359.49	6,148 80	9,500.00	2,904.81	-26.11	2,904 93	0.00	402,231.21	762,894.09
12,300.00	90.00	359.49	6,148.80	9,500.00	3,004.81	-27.01	3,004.93	0.00	402,331.21	762,893.19
12,400.00	90.00	359.49	6,148.80	9,500.00	3,104 80	-27.91	3,104.93	0.00	402,431.20	762,892.29
12,500.00	90 00	359.49	6,148.80	9,500 00	3,204.80	-28.80	3,204.93	0.00	402,531.20	762,891 40
12,600 00	90.00	359 49	6,148.80	9,500.00	3,304.80	-29.70	3,304.93	0.00	402,631.20	762,890.50
12,700 00	90 00	359 49	6,148.80	9,500.00	3,404.79	-30.60	3,404.93	0.00	402,731.19	762,889.60
12,800 00	90 00	359.49	6,148.80	9,500 00	3,504.79	-31.50	3,504.93	0 00	402,831.19	762,888.70
12,900.00	90.00	359 49	6,148.80	9,500.00	3,604.78	-32 40	3,604.93	0.00	402,931.18	762,887.80
13,000.00	90.00	359 49	6,148.80	9,500.00	3,704 78	-33.30	3,704 93	0.00	403,031.18	762,886 90

Company:	EOG Resources	**Local Co-ordinate Reference:**	Well Pinchblende 29 Fed Com 1H
Project:	Lea County, NM (Nad27)	**TVD Reference:**	WELL @ 3351.20usft (Original Well Elev + 30' KB)
Site:	Pinchblende 29 Federal	**MD Reference:**	WELL @ 3351.20usft (Original Well Elev + 30' KB)
Well:	Pinchblende 29 Fed Com 1H	**North Reference:**	Grid
Wellbore:	Wellbore #1	**Survey Calculation Method:**	Minimum Curvature
Design:	Plan #1 093011	**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	359 49	6,148.80	9,500.00	3,804.78	-34.20	3,804.93	0.00	403,131.18	762,886.00
13,200.00	90 00	359.49	6,148.80	9,500.00	3,904.77	-35.10	3,904.93	0.00	403,231.17	762,885.10
13,300.00	90.00	359.49	6,148.80	9,500.00	4,004.77	-35.99	4,004.93	0 00	403,331.17	762,884.21
13,400.00	90.00	359.49	6,148.80	9,500.00	4,104.76	-36.89	4,104.93	0.00	403,431.16	762,883 31
13,500.00	90.00	359.49	6,148.80	9,500.00	4,204.76	-37 79	4,204.93	0.00	403,531.16	762,882.41
13,600.00	90.00	359 49	6,148.80	9,500.00	4,304.76	-38 69	4,304.93	0.00	403,631.16	762,881.51
13,700.00	90.00	359 49	6,148.80	9,500 00	4,404.75	-39 59	4,404 93	0 00	403,731.15	762,880.61
13,800 00	90 00	359 49	6,148.80	9,500 00	4,504 75	-40.49	4,504.93	0.00	403,831.15	762,879 71
13,900 00	90.00	359 49	6,148.80	9,500.00	4,604.74	-41 39	4,604.93	0 00	403,931.14	762,878.81
14,000 00	90.00	359.49	6,148 80	9,500.00	4,704.74	-42 29	4,704.93	0.00	404,031.14	762,877.91
14,100.00	90.00	359.49	6,148.80	9,500 00	4,804.74	-43.18	4,804.93	0.00	404,131 14	762,877.02
14,200.00	90.00	359 49	6,148.80	9,500 00	4,904.73	-44.08	4,904 93	0.00	404,231 13	762,876.12
14,300.00	90.00	359 49	6,148 80	9,500.00	5,004.73	-44.98	5,004 93	0.00	404,331.13	762,875.22
14,400.00	90.00	359 49	6,148 80	9,500.00	5,104.72	-45.88	5,104 93	0.00	404,431 12	762,874.32
14,500.00	90.00	359 49	6,148.80	9,500.00	5,204.72	-46 78	5,204.93	0.00	404,531.12	762,873.42
14,600.00	90.00	359.49	6,148.80	9,500.00	5,304.72	-47 68	5,304.93	0.00	404,631.12	762,872.52
14,700.00	90.00	359.49	6,148 80	9,500.00	5,404.71	-48.58	5,404.93	0.00	404,731 11	762,871.62
14,800.00	90 00	359.49	6,148.80	9,500.00	5,504.71	-49.48	5,504 93	0.00	404,831.11	762,870.72
14,900.00	90.00	359 49	6,148.80	9,500.00	5,604.70	-50.37	5,604.93	0.00	404,931.10	762,869.83
15,000.00	90.00	359.49	6,148.80	9,500.00	5,704.70	-51 27	5,704.93	0.00	405,031.10	762,868.93
15,100.00	90.00	359 49	6,148.80	9,500.00	5,804.70	-52 17	5,804.93	0.00	405,131.10	762,868.03
15,200.00	90.00	359 49	6,148 80	9,500.00	5,904.69	-53.07	5,904.93	0.00	405,231.09	762,867 13
15,300.00	90.00	359 49	6,148.80	9,500.00	6,004.69	-53.97	6,004.93	0.00	405,331 09	762,866.23
15,400.00	90 00	359.49	6,148 80	9,500.00	6,104.68	-54.87	6,104 93	0.00	405,431.08	762,865.33
15,500.00	90 00	359.49	6,148.80	9,500.00	6,204.68	-55.77	6,204.93	0.00	405,531.08	762,864.43
15,600.00	90.00	359 49	6,148.80	9,500.00	6,304 68	-56.67	6,304.93	0.00	405,631.08	762,863.53
15,700.00	90 00	359 49	6,148.80	9,500.00	6,404 67	-57.56	6,404 93	0 00	405,731.07	762,862 64

Company:	EOG Resources	**Local Co-ordinate Reference:**	Well Pinchblende 29 Fed Com 1H
Project:	Lea County, NM (Nad27)	**TVD Reference:**	WELL @ 3351.20usft (Original Well Elev + 30' KB)
Site:	Pinchblende 29 Federal	**MD Reference:**	WELL @ 3351.20usft (Original Well Elev + 30' KB)
Well:	Pinchblende 29 Fed Com 1H	**North Reference:**	Grid
Wellbore:	Wellbore #1	**Survey Calculation Method:**	Minimum Curvature
Design:	Plan #1 093011	**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)
15,800.00	90.00	359 49	6,148.80	9,500.00	6,504 67	-58.46	6,504.93	0.00	405,831.07	762,861.74
15,900.00	90.00	359 49	6,148.80	9,500 00	6,604.66	-59.36	6,604.93	0.00	405,931.06	762,860.84
16,000.00	90.00	359 49	6,148.80	9,500 00	6,704.66	-60.26	6,704 93	0.00	406,031.06	762,859.94
16,100.00	90.00	359.49	6,148.80	9,500.00	6,804.65	-61.16	6,804.93	0.00	406,131 05	762,859.04
16,200.00	90 00	359 49	6,148.80	9,500.00	6,904.65	-62.06	6,904 93	0.00	406,231.05	762,858.14
16,300.00	90.00	359 49	6,148.80	9,500.00	7,004.65	-62.96	7,004.93	0 00	406,331.05	762,857.24
16,400.00	90.00	359 49	6,148.80	9,500.00	7,104.64	-63.86	7,104.93	0 00	406,431.04	762,856.34
16,500.00	90.00	359.49	6,148.80	9,500.00	7,204.64	-64.75	7,204.93	0.00	406,531.04	762,855.45
16,600.00	90.00	359 49	6,148.80	9,500.00	7,304.63	-65.65	7,304.93	0.00	406,631.03	762,854.55
16,700.00	90.00	359 49	6,148.80	9,500.00	7,404.63	-66 55	7,404.93	0.00	406,731 03	762,853.65
16,800.00	90.00	359.49	6,148.80	9,500.00	7,504.63	-67.45	7,504.93	0.00	406,831.03	762,852.75
16,900.00	90.00	359.49	6,148.80	9,500 00	7,604.62	-68.35	7,604.93	0.00	406,931.02	762,851 85
17,000 00	90 00	359.49	6,148.80	9,500.00	7,704 62	-69.25	7,704.93	0.00	407,031.02	762,850.95
17,100 00	90.00	359.49	6,148.80	9,500.00	7,804.61	-70.15	7,804.93	0.00	407,131.01	762,850.05
17,200.00	90 00	359.49	6,148 80	9,500.00	7,904.61	-71.04	7,904.93	0 00	407,231.01	762,849.16
17,300.00	90.00	359 49	6,148.80	9,500.00	8,004 61	-71.94	8,004.93	0.00	407,331.01	762,848.26
17,400.00	90.00	359.49	6,148.80	9,500 00	8,104.60	-72.84	8,104 93	0 00	407,431 00	762,847.36
17,500.00	90.00	359 49	6,148 80	9,500.00	8,204.60	-73.74	8,204.93	0.00	407,531.00	762,846.46
17,600.00	90.00	359 49	6,148 80	9,500.00	8,304.59	-74 64	8,304.93	0 00	407,630.99	762,845.56
17,700.00	90.00	359.49	6,148 80	9,500.00	8,404.59	-75 54	8,404.93	0.00	407,730.99	762,844 66
17,800.00	90.00	359.49	6,148.80	9,500 00	8,504.59	-76.44	8,504.93	0.00	407,830.99	762,843.76
17,900.00	90.00	359 49	6,148.80	9,500 00	8,604.58	-77.34	8,604.93	0 00	407,930.98	762,842.86
18,000.00	90.00	359.49	6,148.80	9,500 00	8,704.58	-78.23	8,704.93	0.00	408,030.98	762,841.97
18,100.00	90.00	359.49	6,148.80	9,500.00	8,804.57	-79.13	8,804.93	0 00	408,130.97	762,841.07
18,200 00	90 00	359 49	6,148 80	9,500 00	8,904.57	-80.03	8,904.93	0.00	408,230.97	762,840 17
18,300.00	90.00	359 49	6,148.80	9,500.00	9,004.57	-80.93	9,004.93	0.00	408,330.97	762,839.27
18,400.00	90 00	359.49	6,148.80	9,500.00	9,104.56	-81 83	9,104.93	0.00	408,430.96	762,838.37

Phoenix Technology Services

EOG Resources

Company:	EOG Resources	**Local Co-ordinate Reference:**	Well Pinchblende 29 Fed Com 1H
Project:	Lea County, NM (Nad27)	**TVD Reference:**	WELL @ 3351.20usft (Original Well Elev + 30' KB)
Site:	Pinchblende 29 Federal	**MD Reference:**	WELL @ 3351.20usft (Original Well Elev + 30' KB)
Well:	Pinchblende 29 Fed Com 1H	**North Reference:**	Grid
Wellbore:	Wellbore #1	**Survey Calculation Method:**	Minimum Curvature
Design:	Plan #1 093011	**Database:**	GCR DB v5000

Planned Survey

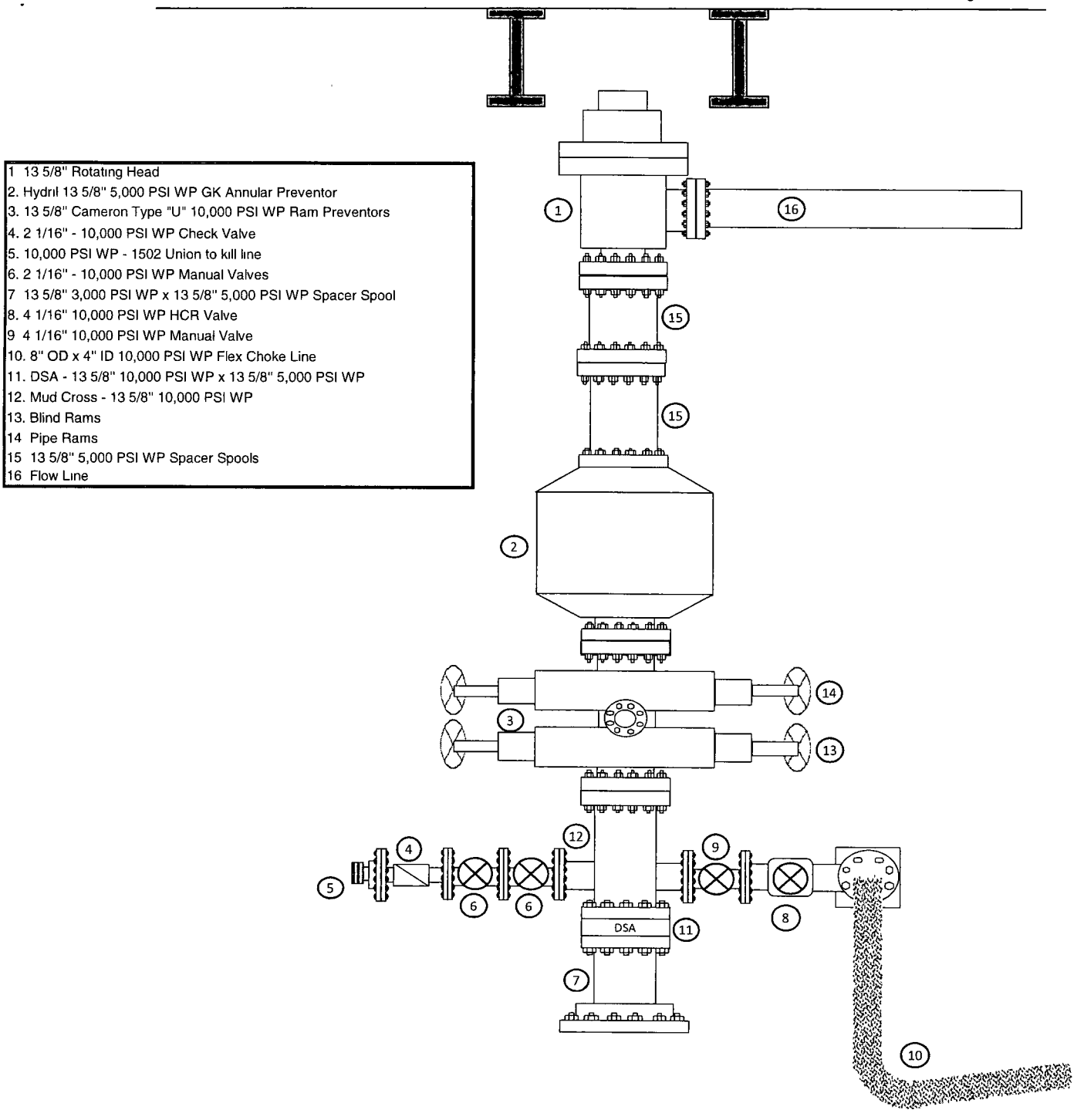
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVDSS (usft)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
18,500.00	90.00	359.49	6,148 80	9,500.00	9,204.56	-82.73	9,204.93	0.00	408,530.96	762,837.47
18,600.00	90.00	359.49	6,148.80	9,500.00	9,304.55	-83.63	9,304.93	0.00	408,630.95	762,836.57
18,700.00	90.00	359 49	6,148 80	9,500.00	9,404.55	-84 53	9,404 93	0.00	408,730.95	762,835 67
18,800.00	90.00	359.49	6,148.80	9,500.00	9,504.55	-85.42	9,504.93	0.00	408,830.95	762,834.78
18,900 00	90.00	359 49	6,148 80	9,500.00	9,604.54	-86.32	9,604 93	0 00	408,930 94	762,833.88
19,000 00	90 00	359 49	6,148 80	9,500.00	9,704.54	-87 22	9,704.93	0.00	409,030.94	762,832.98
19,100.00	90.00	359.49	6,148.80	9,500.00	9,804.53	-88 12	9,804.93	0.00	409,130.93	762,832.08
19,186.67	90.00	359.49	6,148.80	9,500.00	9,891.20	-88.90	9,891 60	0.00	409,217.60	762,831.30
TD @ 19186' M										

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
9,022 54	9,022.54	0.00	0.00	Start 12°/100' Build @ 9022' MD
9,772.54	9,500.00	477 45	-4 29	Start 9414' Hold @ 9772' MD
19,186 67	9,500.00	9,891.20	-88.90	TD @ 19186' M

Checked By: _____ Approved By: _____ Date: _____

EOG Resources
Cactus #123
Exhibit #1



EOG RESOURCES, INC.
PITCHBLENDE 29 FED COM 1H

ATTACHMENT TO EXHIBIT #1

1. Wear ring to be properly installed in head.

2. Blow out preventer and all fittings must be in good condition, 5000 psi W.P. minimum. Exhibit #1.

3. All fittings to be flanged

4. Safety valve must be available on rig floor at all times with proper connections, valve to be full bore 5000 psi W.P. minimum.

5. All choke and fill lines to be securely anchored especially ends of choke lines.

6. Equipment through which bit must pass shall be at least as large as the diameter of the casing being drilled through.

7. Kelly cock on kelly.

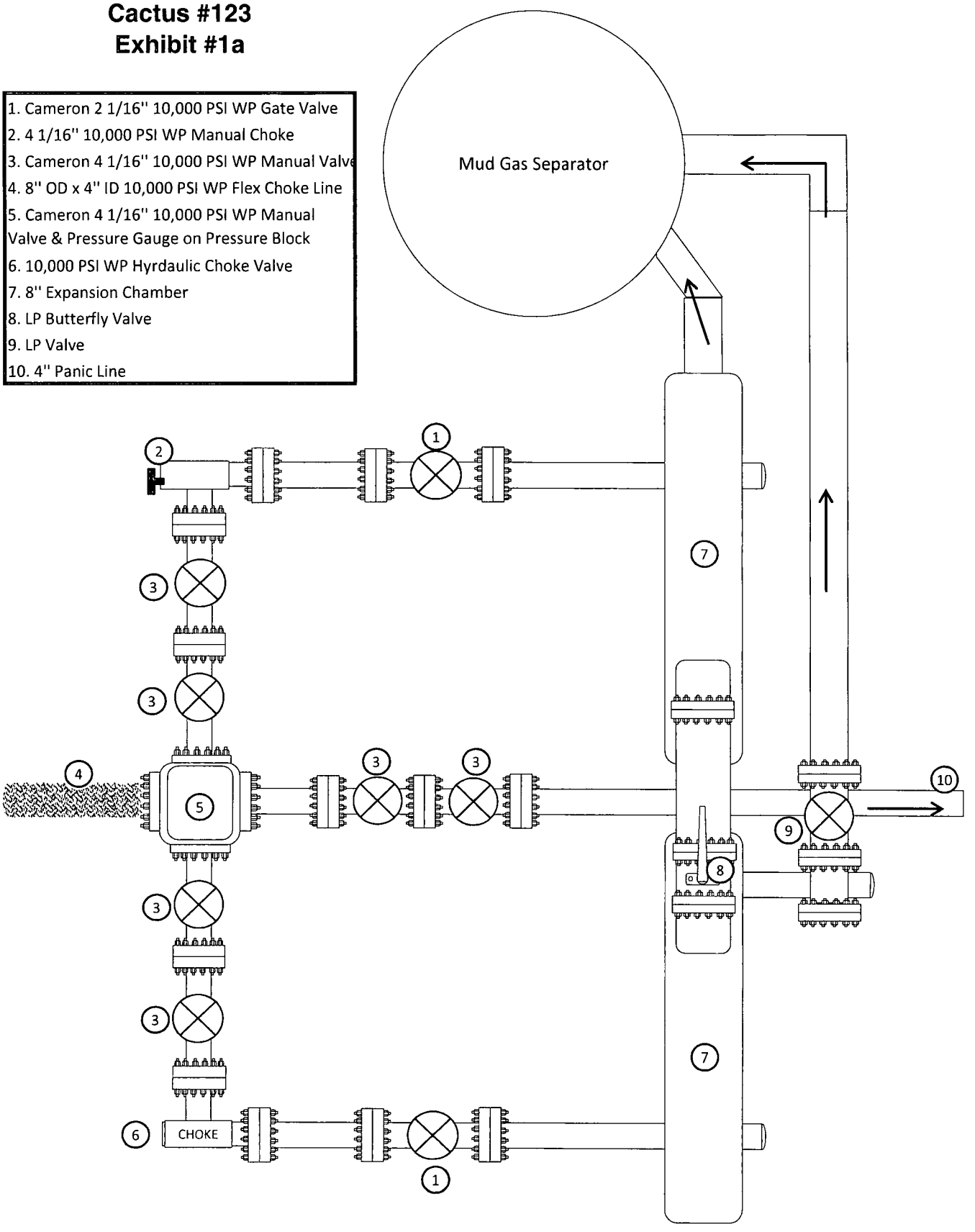
8. Extension wrenches and hand wheels to be properly installed.

9. Blow out preventer control to be located as close to driller's position as feasible.

10. Blow out preventer closing equipment to include minimum 40-gallon accumulator, two independent sources of pump power on each closing unit installation, and meet all API specifications.

EOG Resources
Cactus #123
Exhibit #1a

1. Cameron 2 1/16" 10,000 PSI WP Gate Valve
2. 4 1/16" 10,000 PSI WP Manual Choke
3. Cameron 4 1/16" 10,000 PSI WP Manual Valve
4. 8" OD x 4" ID 10,000 PSI WP Flex Choke Line
5. Cameron 4 1/16" 10,000 PSI WP Manual Valve & Pressure Gauge on Pressure Block
6. 10,000 PSI WP Hyrdaulic Choke Valve
7. 8" Expansion Chamber
8. LP Butterfly Valve
9. LP Valve
10. 4" Panic Line



Manufacturer: Midwest Hose & Specialty

Serial Number: SN#90067

Length: 35'

Size: OD = 8" ID = 4"

Ends: Flanges Size: 4-1/16"

WP Rating: 10,000 psi Anchors required by manfacturer: No

MIDWEST

HOSE AND SPECIALTY INC.

INTERNAL HYDROSTATIC TEST REPORT

Customer: CACTUS	P.O. Number: RIG #123
	Asset # M10761

HOSE SPECIFICATIONS

Type: CHOKE LINE		Length: 35'	
I.D. 4"	*INCHES*	O.D. 8"	*INCHES*

WORKING PRESSURE	TEST PRESSURE	BURST PRESSURE
10,000 *PSI*	15,000 *PSI*	*PSI*

COUPLINGS

Type of End Fitting
4 1/16 10K FLANGE

Type of Coupling: SWEDGED	MANUFACTURED BY MIDWEST HOSE & SPECIALTY

PROCEDURE

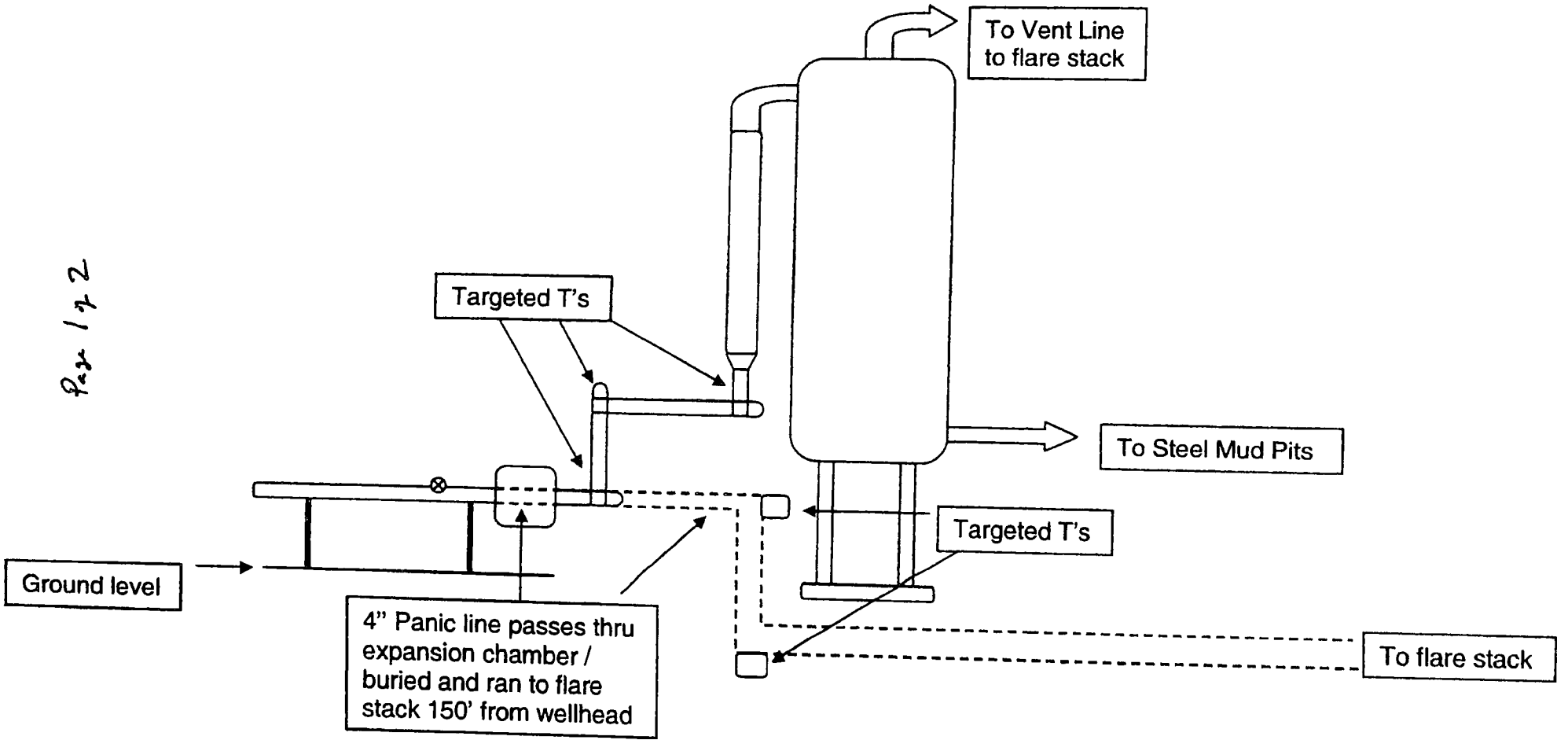
Hose assembly pressure tested with water at ambient temperature.

TIME HELD AT TEST PRESSURE	ACTUAL BURST PRESSURE:
1 *MIN.*	0 *PSI*

COMMENTS:
SN#90067 M10761
Hose is covered with stainless steel armour cover and wraped with fire resistant vermiculite coated fiberglass insulation rated for 1500 degrees complete with lifting eyes

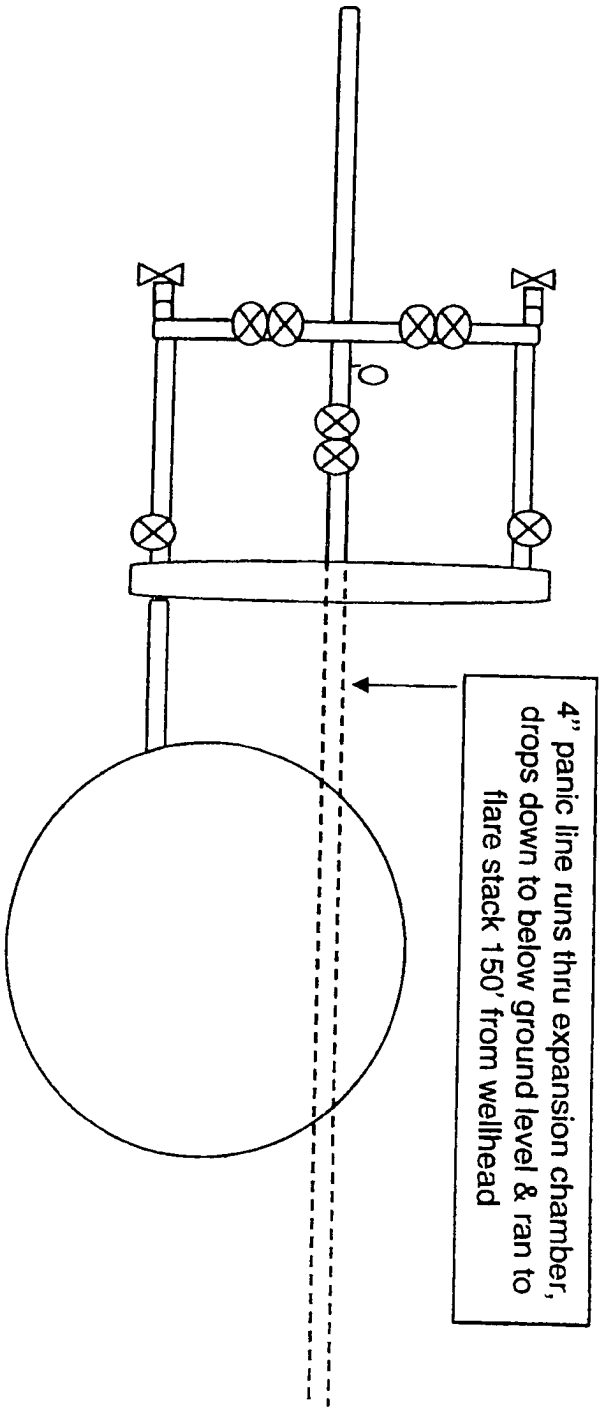
Date:	Tested By:	Approved:
6/6/2011	BOBBY FINK	MENDI JACKSON

Profile View of Piping from Choke Manifold to the Mud Gas Separator



Pg 1 of 2

Aerial View of the Piping from the Choke Manifold to the Mud Gas Separator



4" panic line runs thru expansion chamber, drops down to below ground level & ran to flare stack 150' from wellhead

Closure Plan for Closed Loop Drilling System

1. METHODS OF HANDLING WASTE MATERIALS

a. Drill cuttings shall be disposed of in steel cuttings bins (catch tanks) on the drilling pad (behind the steel mud tanks). The bin and cuttings shall be hauled to a division approved facility by an approved transporter. At the facility, the cuttings shall be removed from the bin and the bin shall be returned to the drilling site for reuse, moved to the next drilling site or returned to the provider.

b. Remaining drilling fluids shall be hauled off by approved transports to a division approved disposal facility. Water produced during completion shall be put in storage tanks and disposed of at a division approved facility. Oil and condensate produced shall be put in a storage tank and sold or put in a sales pipeline.

2. RECLAMATION

a. Within 120 days after the drilling and completion of the well, the location area shall be reduced as determined by operator to the minimum area necessary to safely and effectively operate the well. The reclaimed location area shall be restored to the condition that existed prior to oil and gas operations.

OPERATING AND MAINTENANCE PLAN – CLOSED LOOP SYSTEM

19.15.17.12 OPERATIONAL REQUIREMENTS:

A. General specifications. An operator shall maintain and operate a pit, closed-loop system, below-grade tank or sump in accordance with the following requirements.

(1) The operator shall operate and maintain a pit, closed-loop system, below-grade tank or sump to contain liquids and solids and maintain the integrity of the liner, liner system or secondary containment system, prevent contamination of fresh water and protect public health and the environment.

Operator shall operate and maintain a closed loop system.

(2) The operator shall recycle, reuse or reclaim all drilling fluids in a manner that prevents the contamination of fresh water and protects public health and the environment.

Operator shall recycle, reuse or reclaim all drilling fluids used. Excess or unused fluid shall be disposed of at division approved facilities.

(3) The operator shall not discharge into or store any hazardous waste in a pit, closed-loop system, below-grade tank or sump.

Operator shall not knowingly discharge hazardous waste into the closed loop system.

(4) If the integrity of the pit liner is compromised, or if any penetration of the liner occurs above the liquid's surface, then the operator shall notify the appropriate division district office within 48 hours of the discovery and repair the damage or replace the liner.

No Pit liner. Closed loop system.

(5) If a lined pit develops a leak, or if any penetration of the liner occurs below the liquid's surface, then the operator shall remove all liquid above the damage or leak line from the pit within 48 hours and repair the damage or replace the liner.

No Pit liner. Closed loop system. If a leak develops in any of the closed loop tanks, all liquid shall be removed from the effected tank within 48 hours and any damage shall be repaired prior to putting the tank back in service.

OPERATING AND MAINTENANCE PLAN – CLOSED LOOP SYSTEM

(6) The operator shall install a level measuring device in a lined pit containing fluids to monitor the level of the fluid surface, so that the operator may recognize unanticipated change in volume of fluids.

No pit. Closed loop system. Excess fluid shall be removed appropriately from the catch tanks.

(7) The injection or withdrawal of liquids from a lined pit shall be accomplished through a header, diverter or other hardware that prevents damage to the liner by erosion, fluid jets or impact from installation and removal of hoses or pipes.

No pit. Closed loop system. Excess fluid shall be removed appropriately from the catch tanks using a re-circulating pump or vacuum trucks.

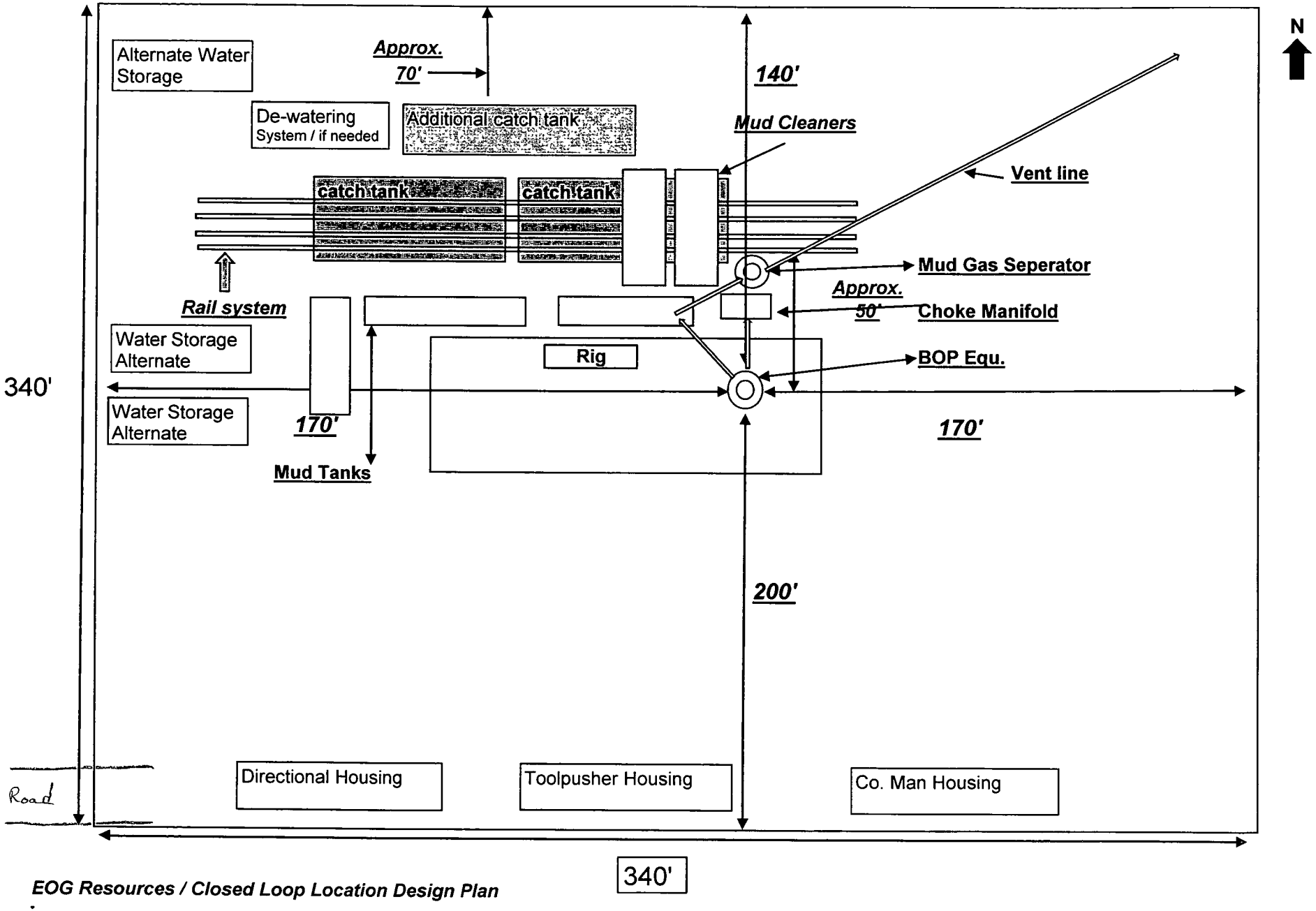
(8) The operator shall operate and install a pit, below-grade tank or sump to prevent the collection of surface water run-on.

Operator shall berm or collect surface water run- on and dispose of at a division approved facility.

(9) The operator shall install, or maintain on site, an oil absorbent boom or other device to contain and remove oil from a pit's surface.

Operator shall install a skimmer system on catch tanks, circulating tanks and over-flow tanks as needed to collect oil.

EXHIBIT 4
Pitchblende 29 Fed Com 1H



EOG Resources / Closed Loop Location Design Plan

Not to scale

6/30/2008