

EOG Resources

Lea County, NM (Nad27)

Pinchblende 24 Federal

Pinchblende 24 Fed Com 1H

Wellbore #1

Plan: Plan #1 092011

EOG Resources

20 September, 2011

30-025-40418



Phoenix Technology Services EOG Resources



Company: EOG Resources	Local Co-ordinate Reference: Well Pinchblende 24 Fed Com 1H
Project: Lea County, NM (Nad27)	TVD Reference: WELL @ 3379.50ft (Original Well Elev + 30' KB)
Site: Pinchblende 24 Federal	MD Reference: WELL @ 3379.50ft (Original Well Elev + 30' KB)
Well: Pinchblende 24 Fed Com 1H	North Reference: Grid
Wellbore: Wellbore #1	Survey Calculation Method: Minimum Curvature
Design: Plan #1 092011	Database: GOR3

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

Site: Pinchblende 24 Federal	Northings: 409,369.30 ft	Latitude: 32° 7' 19.76 N
From: Map	Eastings: 783,748.30 ft	Longitude: 103° 25' 0.48 W
Position Uncertainty: 0.00 ft	Slot Radius: "	Grid Convergence: 0.49 °

Well: Pinchblende 24 Fed Com 1H	Northings: 409,369.30 ft	Latitude: 32° 7' 19.76 N
Well Position	Eastings: 783,748.30 ft	Longitude: 103° 25' 0.48 W
Position Uncertainty	Wellhead Elevation: ft	Ground Level: 3,349.50 ft

Wellbore: Wellbore #1	Model Name: IGRF2010_14	Sample Date: 9/20/2011	Declination (°): 7.47	Dip Angle (°): 60.11	Field Strength (nT): 48,545
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Design: Plan #1 092011	Phase: PLAN	Tie On Depth: 0.00
Audit Notes:		
Version:		
Vertical Section:	Depth From (TVD): 0.00 (ft)	+N/S (ft): 0.00
	+E/W (ft): 0.00	Direction (°): 177.89

Survey Tool Program:	Date: 9/20/2011
From (ft): 0.00	To (ft): 16,414.30
Survey (Wellbore): Plan #1 092011 (Wellbore #1)	Description: MWD - Standard

Phoenix Technology Services EOG Resources



Company:		EOG Resources		Lea County, NM (Nad27)		Project:		Pinchblende 24 Fed Com 1H		Well:		Wellbore #1		Design:		Plan #1 092011		Local Co-ordinate Reference:		Well Pinchblende 24 Fed Com 1H	
Project:		Lea County, NM (Nad27)		Pinchblende 24 Federal		Site:		Pinchblende 24 Fed Com 1H		Well:		Wellbore #1		Design:		Plan #1 092011		Local Co-ordinate Reference:		Well Pinchblende 24 Fed Com 1H	
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MD (ft)	Inc (°)	Azi (azimuth) (°)	TVDSS (ft)	TVD (ft)	N/S (ft)	E/W (ft)	V.Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)			
2,700.00	0.00	0.00	-679.50	2,700.00	0.00	0.00	0.00	0.00	409,369.30	783,748.30			
2,800.00	0.00	0.00	-579.50	2,800.00	0.00	0.00	0.00	0.00	409,369.30	783,748.30			
2,900.00	0.00	0.00	-479.50	2,900.00	0.00	0.00	0.00	0.00	409,369.30	783,748.30			
3,000.00	0.00	0.00	-379.50	3,000.00	0.00	0.00	0.00	0.00	409,369.30	783,748.30			
3,100.00	0.00	0.00	-279.50	3,100.00	0.00	0.00	0.00	0.00	409,369.30	783,748.30			
3,200.00	0.00	0.00	-179.50	3,200.00	0.00	0.00	0.00	0.00	409,369.30	783,748.30			
3,300.00	0.00	0.00	-79.50	3,300.00	0.00	0.00	0.00	0.00	409,369.30	783,748.30			
3,400.00	0.00	0.00	20.50	3,400.00	0.00	0.00	0.00	0.00	409,369.30	783,748.30			
3,500.00	0.00	0.00	120.50	3,500.00	0.00	0.00	0.00	0.00	409,369.30	783,748.30			
3,600.00	0.00	0.00	220.50	3,600.00	0.00	0.00	0.00	0.00	409,369.30	783,748.30			
3,700.00	0.00	0.00	320.50	3,700.00	0.00	0.00	0.00	0.00	409,369.30	783,748.30			
3,800.00	0.00	0.00	420.50	3,800.00	0.00	0.00	0.00	0.00	409,369.30	783,748.30			
3,900.00	0.00	0.00	520.50	3,900.00	0.00	0.00	0.00	0.00	409,369.30	783,748.30			
4,000.00	0.00	0.00	620.50	4,000.00	0.00	0.00	0.00	0.00	409,369.30	783,748.30			
4,100.00	0.00	0.00	720.50	4,100.00	0.00	0.00	0.00	0.00	409,369.30	783,748.30			
4,200.00	0.00	0.00	820.50	4,200.00	0.00	0.00	0.00	0.00	409,369.30	783,748.30			
4,300.00	0.00	0.00	920.50	4,300.00	0.00	0.00	0.00	0.00	409,369.30	783,748.30			
4,400.00	0.00	0.00	1,020.50	4,400.00	0.00	0.00	0.00	0.00	409,369.30	783,748.30			
4,500.00	0.00	0.00	1,120.50	4,500.00	0.00	0.00	0.00	0.00	409,369.30	783,748.30			
4,600.00	0.00	0.00	1,220.50	4,600.00	0.00	0.00	0.00	0.00	409,369.30	783,748.30			
4,700.00	0.00	0.00	1,320.50	4,700.00	0.00	0.00	0.00	0.00	409,369.30	783,748.30			
4,800.00	0.00	0.00	1,420.50	4,800.00	0.00	0.00	0.00	0.00	409,369.30	783,748.30			
4,900.00	0.00	0.00	1,520.50	4,900.00	0.00	0.00	0.00	0.00	409,369.30	783,748.30			
5,000.00	0.00	0.00	1,620.50	5,000.00	0.00	0.00	0.00	0.00	409,369.30	783,748.30			
5,100.00	0.00	0.00	1,720.50	5,100.00	0.00	0.00	0.00	0.00	409,369.30	783,748.30			
5,200.00	0.00	0.00	1,820.50	5,200.00	0.00	0.00	0.00	0.00	409,369.30	783,748.30			
5,300.00	0.00	0.00	1,920.50	5,300.00	0.00	0.00	0.00	0.00	409,369.30	783,748.30			

PHOENIX
TECHNOLOGY SERVICES

- 9/20/2011 1:32:15PM

Phoenix Technology Services

EOG Resources



Company: Project: Site: Well: Wellbore: Design:				Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Database:								Well Pinchblende 24 Fed Com 1H WELL @ 3379.50ft (Original Well Elev + 30' KB) WELL @ 3379.50ft (Original Well Elev + 30' KB) Grid Minimum Curvature GCR3	
EOG Resources Lea County, NM (Nad27) Pinchblende 24 Federal Pinchblende 24 Fed Com 1H Wellbore #1 Plan #1 092011													
Planned Survey													
MD (ft)	Inc. (°)	Azi (azimuth) (°)	TVDSS (ft)	TVD (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	D. Leg. (°/100ft)	Northing (ft)	Easting (ft)			
8,100.00	0.00	0.00	4,720.50	8,100.00	0.00	0.00	0.00	0.00	409,369.30	783,748.30			
8,200.00	0.00	0.00	4,820.50	8,200.00	0.00	0.00	0.00	0.00	409,369.30	783,748.30			
8,300.00	0.00	0.00	4,920.50	8,300.00	0.00	0.00	0.00	0.00	409,369.30	783,748.30			
8,400.00	0.00	0.00	5,020.50	8,400.00	0.00	0.00	0.00	0.00	409,369.30	783,748.30			
8,500.00	0.00	0.00	5,120.50	8,500.00	0.00	0.00	0.00	0.00	409,369.30	783,748.30			
8,600.00	0.00	0.00	5,220.50	8,600.00	0.00	0.00	0.00	0.00	409,369.30	783,748.30			
8,700.00	0.00	0.00	5,320.50	8,700.00	0.00	0.00	0.00	0.00	409,369.30	783,748.30			
8,800.00	0.00	0.00	5,420.50	8,800.00	0.00	0.00	0.00	0.00	409,369.30	783,748.30			
8,872.53	0.00	0.00	5,493.03	8,872.53	0.00	0.00	0.00	0.00	409,369.30	783,748.30			
Start 12°/100' Build @ 8722' MD													
8,900.00	3.30	177.89	5,520.48	8,899.98	-0.79	0.03	0.79	12.00	409,368.51	783,748.33			
9,000.00	15.30	177.89	5,618.99	8,998.49	-16.90	0.62	16.91	12.00	409,352.40	783,748.92			
9,100.00	27.30	177.89	5,711.99	9,091.49	-53.13	1.96	53.17	12.00	409,316.17	783,750.26			
9,200.00	39.30	177.89	5,795.42	9,174.92	-107.89	3.97	107.96	12.00	409,261.41	783,752.27			
9,300.00	51.30	177.89	5,865.64	9,245.14	-178.79	6.58	178.91	12.00	409,190.52	783,754.88			
9,400.00	63.30	177.89	5,919.57	9,299.07	-262.72	9.67	262.90	12.00	409,106.58	783,757.97			
9,500.00	75.30	177.89	5,954.86	9,334.36	-356.03	13.11	356.27	12.00	409,013.27	783,761.41			
9,600.00	87.30	177.89	5,969.97	9,349.47	-454.63	16.74	454.94	12.00	408,914.67	783,765.03			
9,622.54	90.00	177.89	5,970.50	9,350.00	-477.14	17.56	477.47	12.00	408,892.16	783,765.86			
Start 6791' Hold @ 9622' MD													
9,700.00	90.00	177.89	5,970.50	9,350.00	-554.55	20.41	554.93	0.00	408,814.75	783,768.71			
9,800.00	90.00	177.89	5,970.50	9,350.00	-654.49	24.09	654.93	0.00	408,714.81	783,772.39			
9,900.00	90.00	177.89	5,970.50	9,350.00	-754.42	27.77	754.93	0.00	408,614.88	783,776.07			
10,000.00	90.00	177.89	5,970.50	9,350.00	-854.35	31.45	854.93	0.00	408,514.95	783,779.75			
10,100.00	90.00	177.89	5,970.50	9,350.00	-954.28	35.13	954.93	0.00	408,415.02	783,783.43			
10,200.00	90.00	177.89	5,970.50	9,350.00	-1,054.22	38.81	1,054.93	0.00	408,315.09	783,787.11			
10,300.00	90.00	177.89	5,970.50	9,350.00	-1,154.15	42.48	1,154.93	0.00	408,215.15	783,790.78			

Phoenix Technology Services EOG Resources



Company: EOG Resources		Local Co-ordinate Reference:		Well Pinchblende 24 Fed Com 1H	
Project:	Lea County, NM (Nad27)	TVD Reference:	WELL @ 3379.50ft (Original Well Elev + 30' KB)		
Site:	Pinchblende 24 Federal	MD Reference:	WELL @ 3379.50ft (Original Well Elev + 30' KB)		
Well:	Pinchblende 24 Fed Com 1H	North Reference:	Grid		
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature		
Design:	Plan #1 092011	Database:	GCR3		

Planned Survey		MD (ft)	Inc (°)	Azi (azimuth) (°)	TVDSS (ft)	TVD (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)
	10,400.00	90.00	177.89	5,970.50	9,350.00	-1,254.08	46.16	1,254.93	0.00	0.00	408,115.22	783,794.46
	10,500.00	90.00	177.89	5,970.50	9,350.00	-1,354.01	49.84	1,354.93	0.00	0.00	408,015.29	783,798.14
	10,600.00	90.00	177.89	5,970.50	9,350.00	-1,453.95	53.52	1,454.93	0.00	0.00	407,915.36	783,801.82
	10,700.00	90.00	177.89	5,970.50	9,350.00	-1,553.88	57.20	1,554.93	0.00	0.00	407,815.43	783,805.50
	10,800.00	90.00	177.89	5,970.50	9,350.00	-1,653.81	60.88	1,654.93	0.00	0.00	407,715.49	783,809.18
	10,900.00	90.00	177.89	5,970.50	9,350.00	-1,753.74	64.56	1,754.93	0.00	0.00	407,615.56	783,812.86
	11,000.00	90.00	177.89	5,970.50	9,350.00	-1,853.67	68.23	1,854.93	0.00	0.00	407,515.63	783,816.53
	11,100.00	90.00	177.89	5,970.50	9,350.00	-1,953.61	71.91	1,954.93	0.00	0.00	407,415.70	783,820.21
	11,200.00	90.00	177.89	5,970.50	9,350.00	-2,053.54	75.59	2,054.93	0.00	0.00	407,315.76	783,823.89
	11,300.00	90.00	177.89	5,970.50	9,350.00	-2,153.47	79.27	2,154.93	0.00	0.00	407,215.83	783,827.57
	11,400.00	90.00	177.89	5,970.50	9,350.00	-2,253.40	82.95	2,254.93	0.00	0.00	407,115.90	783,831.25
	11,500.00	90.00	177.89	5,970.50	9,350.00	-2,353.34	86.63	2,354.93	0.00	0.00	407,015.97	783,834.93
	11,600.00	90.00	177.89	5,970.50	9,350.00	-2,453.27	90.31	2,454.93	0.00	0.00	406,916.04	783,838.61
	11,700.00	90.00	177.89	5,970.50	9,350.00	-2,553.20	93.98	2,554.93	0.00	0.00	406,816.10	783,842.28
	11,800.00	90.00	177.89	5,970.50	9,350.00	-2,653.13	97.66	2,654.93	0.00	0.00	406,716.17	783,845.96
	11,900.00	90.00	177.89	5,970.50	9,350.00	-2,753.07	101.34	2,754.93	0.00	0.00	406,616.24	783,849.64
	12,000.00	90.00	177.89	5,970.50	9,350.00	-2,853.00	105.02	2,854.93	0.00	0.00	406,516.31	783,853.32
	12,100.00	90.00	177.89	5,970.50	9,350.00	-2,952.93	108.70	2,954.93	0.00	0.00	406,416.38	783,857.00
	12,200.00	90.00	177.89	5,970.50	9,350.00	-3,052.86	112.38	3,054.93	0.00	0.00	406,316.44	783,860.68
	12,300.00	90.00	177.89	5,970.50	9,350.00	-3,152.79	116.05	3,154.93	0.00	0.00	406,216.51	783,864.35
	12,400.00	90.00	177.89	5,970.50	9,350.00	-3,252.73	119.73	3,254.93	0.00	0.00	406,116.58	783,868.03
	12,500.00	90.00	177.89	5,970.50	9,350.00	-3,352.66	123.41	3,354.93	0.00	0.00	406,016.65	783,871.71
	12,600.00	90.00	177.89	5,970.50	9,350.00	-3,452.59	127.09	3,454.93	0.00	0.00	405,916.72	783,875.39
	12,700.00	90.00	177.89	5,970.50	9,350.00	-3,552.52	130.77	3,554.93	0.00	0.00	405,816.78	783,879.07
	12,800.00	90.00	177.89	5,970.50	9,350.00	-3,652.46	134.45	3,654.93	0.00	0.00	405,716.85	783,882.75
	12,900.00	90.00	177.89	5,970.50	9,350.00	-3,752.39	138.13	3,754.93	0.00	0.00	405,616.92	783,886.43
	13,000.00	90.00	177.89	5,970.50	9,350.00	-3,852.32	141.80	3,854.93	0.00	0.00	405,516.99	783,890.10

Phoenix Technology Services EOG Resources



EOG Resources				Local Co-ordinate Reference:				Well Pinchblende 24 Fed Com 1H			
Project: Lea County, NM (Nad27)				TVD Reference:				WELL @ 3379.50ft (Original Well Elev + 30' KB)			
Site: Pinchblende 24 Federal				MD Reference:				WELL @ 3379.50ft (Original Well Elev + 30' KB)			
Well: Pinchblende 24 Fed Com 1H				North Reference:				Grid			
Wellbore: Wellbore #1				Survey/Calculation Method:				Minimum Curvature			
Design: Plan #1 092011				Database:				GCR3			
Planned Survey											
MD (ft)	Inc (°)	Azi(azimuth) (°)	TVDSS (ft)	TVD (ft)	N/S (ft)	E/W (ft)	V. Sec. (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)	
13,100.00	90.00	177.89	5,970.50	9,350.00	-3,952.25	145.48	3,954.93	0.00	405,417.05	783,893.78	
13,200.00	90.00	177.89	5,970.50	9,350.00	-4,052.19	149.16	4,054.93	0.00	405,317.12	783,897.46	
13,300.00	90.00	177.89	5,970.50	9,350.00	-4,152.12	152.84	4,154.93	0.00	405,217.19	783,901.14	
13,400.00	90.00	177.89	5,970.50	9,350.00	-4,252.05	156.52	4,254.93	0.00	405,117.26	783,904.82	
13,500.00	90.00	177.89	5,970.50	9,350.00	-4,351.98	160.20	4,354.93	0.00	405,017.33	783,908.50	
13,600.00	90.00	177.89	5,970.50	9,350.00	-4,451.91	163.88	4,454.93	0.00	404,917.39	783,912.18	
13,700.00	90.00	177.89	5,970.50	9,350.00	-4,551.85	167.55	4,554.93	0.00	404,817.46	783,915.85	
13,800.00	90.00	177.89	5,970.50	9,350.00	-4,651.78	171.23	4,654.93	0.00	404,717.53	783,919.53	
13,900.00	90.00	177.89	5,970.50	9,350.00	-4,751.71	174.91	4,754.93	0.00	404,617.60	783,923.21	
14,000.00	90.00	177.89	5,970.50	9,350.00	-4,851.64	178.59	4,854.93	0.00	404,517.67	783,926.89	
14,100.00	90.00	177.89	5,970.50	9,350.00	-4,951.58	182.27	4,954.93	0.00	404,417.73	783,930.57	
14,200.00	90.00	177.89	5,970.50	9,350.00	-5,051.51	185.95	5,054.93	0.00	404,317.80	783,934.25	
14,300.00	90.00	177.89	5,970.50	9,350.00	-5,151.44	189.63	5,154.93	0.00	404,217.87	783,937.92	
14,400.00	90.00	177.89	5,970.50	9,350.00	-5,251.37	193.30	5,254.93	0.00	404,117.94	783,941.60	
14,500.00	90.00	177.89	5,970.50	9,350.00	-5,351.31	196.98	5,354.93	0.00	404,018.00	783,945.28	
14,600.00	90.00	177.89	5,970.50	9,350.00	-5,451.24	200.66	5,454.93	0.00	403,918.07	783,948.96	
14,700.00	90.00	177.89	5,970.50	9,350.00	-5,551.17	204.34	5,554.93	0.00	403,818.14	783,952.64	
14,800.00	90.00	177.89	5,970.50	9,350.00	-5,651.10	208.02	5,654.93	0.00	403,718.21	783,956.32	
14,900.00	90.00	177.89	5,970.50	9,350.00	-5,751.04	211.70	5,754.93	0.00	403,618.28	783,960.00	
15,000.00	90.00	177.89	5,970.50	9,350.00	-5,850.97	215.38	5,854.93	0.00	403,518.34	783,963.67	
15,100.00	90.00	177.89	5,970.50	9,350.00	-5,950.90	219.05	5,954.93	0.00	403,418.41	783,967.35	
15,200.00	90.00	177.89	5,970.50	9,350.00	-6,050.83	222.73	6,054.93	0.00	403,318.48	783,971.03	
15,300.00	90.00	177.89	5,970.50	9,350.00	-6,150.76	226.41	6,154.93	0.00	403,218.55	783,974.71	
15,400.00	90.00	177.89	5,970.50	9,350.00	-6,250.70	230.09	6,254.93	0.00	403,118.62	783,978.39	
15,500.00	90.00	177.89	5,970.50	9,350.00	-6,350.63	233.77	6,354.93	0.00	403,018.68	783,982.07	
15,600.00	90.00	177.89	5,970.50	9,350.00	-6,450.56	237.45	6,454.93	0.00	402,918.75	783,985.75	
15,700.00	90.00	177.89	5,970.50	9,350.00	-6,550.49	241.12	6,554.93	0.00	402,818.82	783,989.42	

Phoenix Technology Services EOG Resources



Company: EOG Resources	Local Co-ordinate Reference: Well Pinchblende 24 Fed Com 1H
Project: Lea County, NM (Nad27)	TVD Reference: WELL @ 3379.50ft (Original Well Elev + 30' KB)
Site: Pinchblende 24 Federal	MD Reference: WELL @ 3379.50ft (Original Well Elev + 30' KB)
Well: Pinchblende 24 Fed Com 1H	North Reference: Grid
Wellbore: Wellbore #1	Survey Calculation Method: Minimum Curvature
Design: Plan #1 092011	Database: GCR3

Planned Survey									
MD (ft)	Inc (°)	Azi (azimuth) (°)	TVDSS (ft)	TVD (ft)	N/S (ft)	EW (ft)	V. Sec (ft)	DLeg (°/100ft)	Easting (ft)
15,800.00	90.00	177.89	5,970.50	9,350.00	-6,650.43	244.80	6,654.93	0.00	402,718.89
15,900.00	90.00	177.89	5,970.50	9,350.00	-6,750.36	248.48	6,754.93	0.00	402,618.96
16,000.00	90.00	177.89	5,970.50	9,350.00	-6,850.29	252.16	6,854.93	0.00	402,519.02
16,100.00	90.00	177.89	5,970.50	9,350.00	-6,950.22	255.84	6,954.93	0.00	402,419.09
16,200.00	90.00	177.89	5,970.50	9,350.00	-7,050.16	259.52	7,054.93	0.00	402,319.16
16,300.00	90.00	177.89	5,970.50	9,350.00	-7,150.09	263.20	7,154.93	0.00	402,219.23
16,400.00	90.00	177.89	5,970.50	9,350.00	-7,250.02	266.87	7,254.93	0.00	402,119.29
16,414.30	90.00	177.89	5,970.50	9,350.00	-7,264.31	267.40	7,269.23	0.00	402,105.00
TD @ 16414' MD									

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
8,872.53	8,872.53	0.00	0.00	Start 12°100' Build @ 8722' MD
9,622.54	9,350.00	-477.14	17.56	Start 6791' Hold @ 9622' MD
16,414.30	9,350.00	-7,264.31	267.40	TD @ 16414' MD

Checked By: _____	Approved By: _____	Date: _____
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EOG RESOURCES, INC.
PITCHBLEND 24 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 #1

Rig Floor

1. 13 5/8" Rotating Head
2. Hydri 13 5/8" 5,000 PSI WP GK Annular Preventor
3. 13 5/8" Cameron Type "U" 10,000 PSI WP Ram Preventors
4. 2 1/16" - 10,000 PSI WP Check Valve
5. 10,000 PSI WP - 1502 Union to kill line
6. 2 1/16" - 10,000 PSI WP Manual Valves
7. 13 5/8" 3,000 PSI WP x 13 5/8" 5,000 PSI WP Spacer Spool
8. 4 1/16" 10,000 PSI WP HCR Valve
9. 4 1/16" 10,000 PSI WP Manual Valve
10. 8" OD x 4" ID 10,000 PSI WP Flex Choke Line
11. DSA - 13 5/8" 10,000 PSI WP x 13 5/8" 5,000 PSI WP
12. Mud Cross - 13 5/8" 10,000 PSI WP
13. Blind Rams
14. Pipe Rams
15. 13 5/8" 5,000 PSI WP Spacer Spools
16. Flow Line

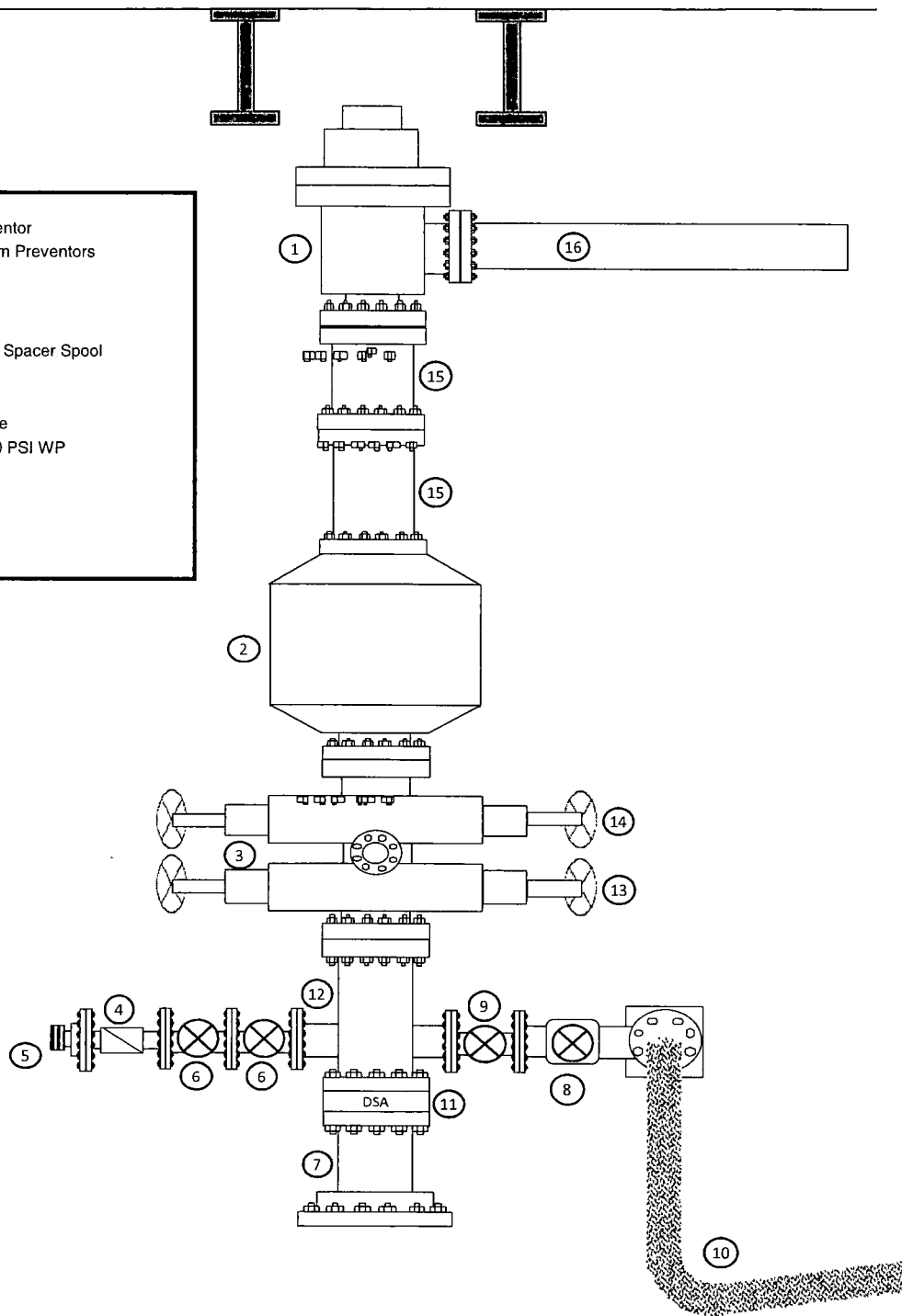
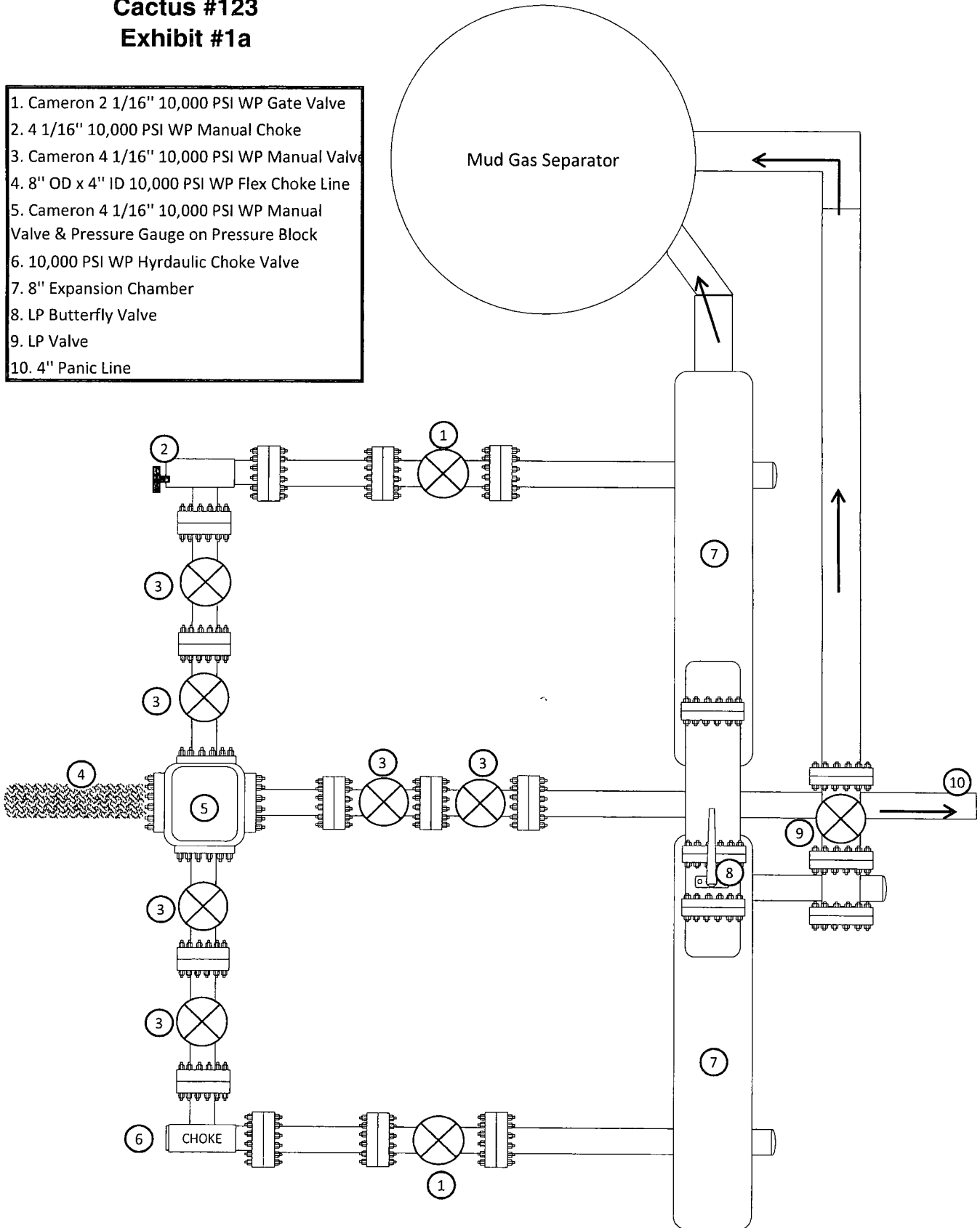
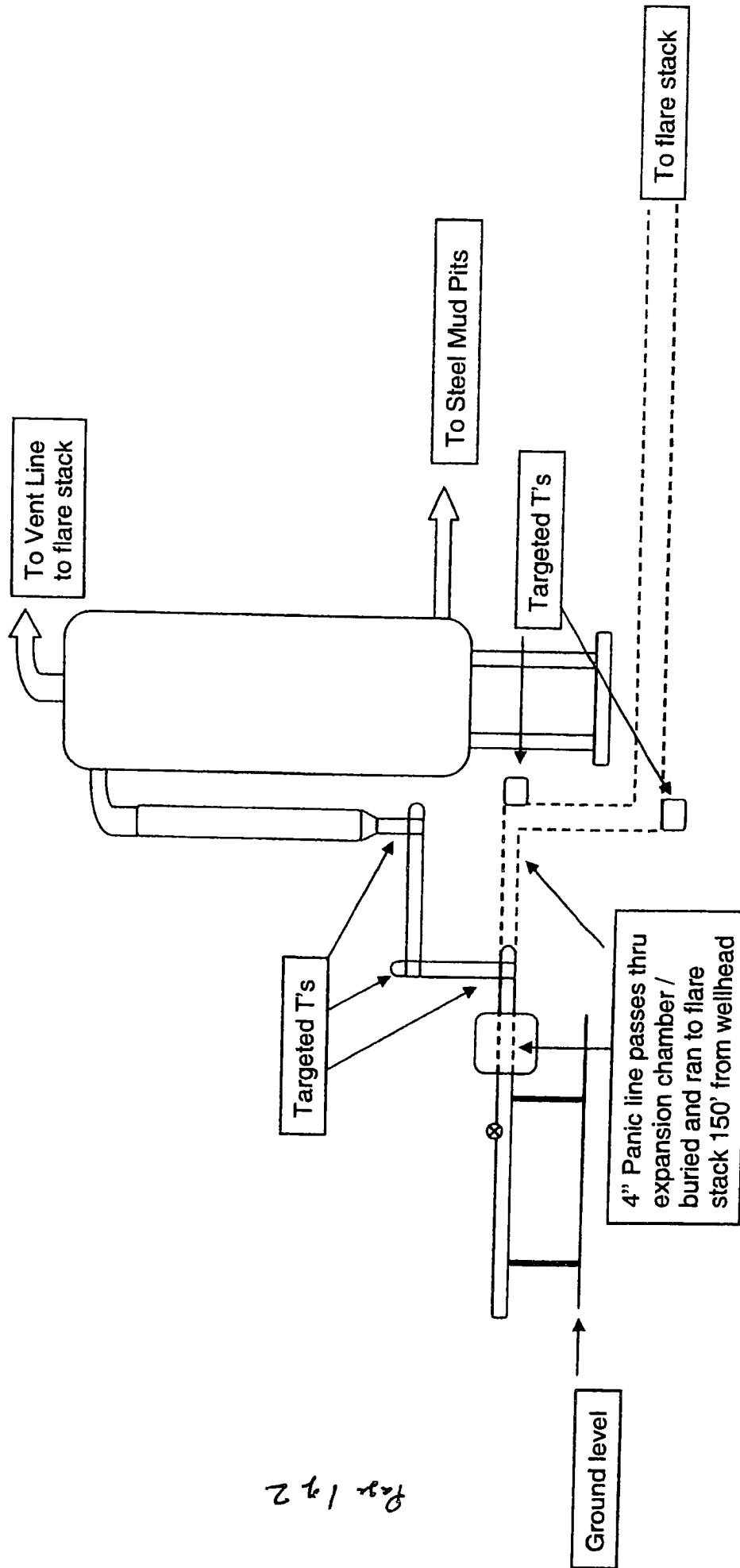


Exhibit #1a

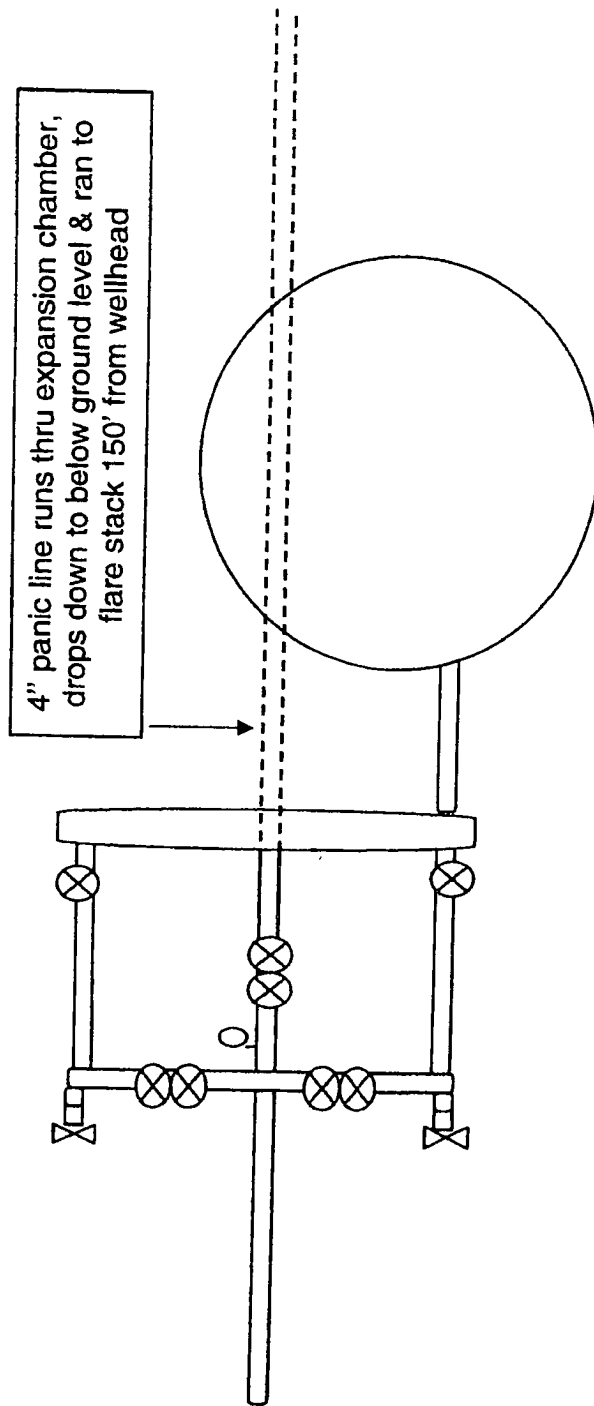
1. Cameron 2 1/16" 10,000 PSI WP Gate Valve
2. 4 1/16" 10,000 PSI WP Manual Choke
3. Cameron 4 1/16" 10,000 PSI WP Manual Valve
4. 8" OD x 4" ID 10,000 PSI WP Flex Choke Line
5. Cameron 4 1/16" 10,000 PSI WP Manual Valve & Pressure Gauge on Pressure Block
6. 10,000 PSI WP Hyrdraulic Choke Valve
7. 8"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



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



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



Manufacturer: Midwest Hose & Specialty

Serial Number: SN#90067

Length: 35'

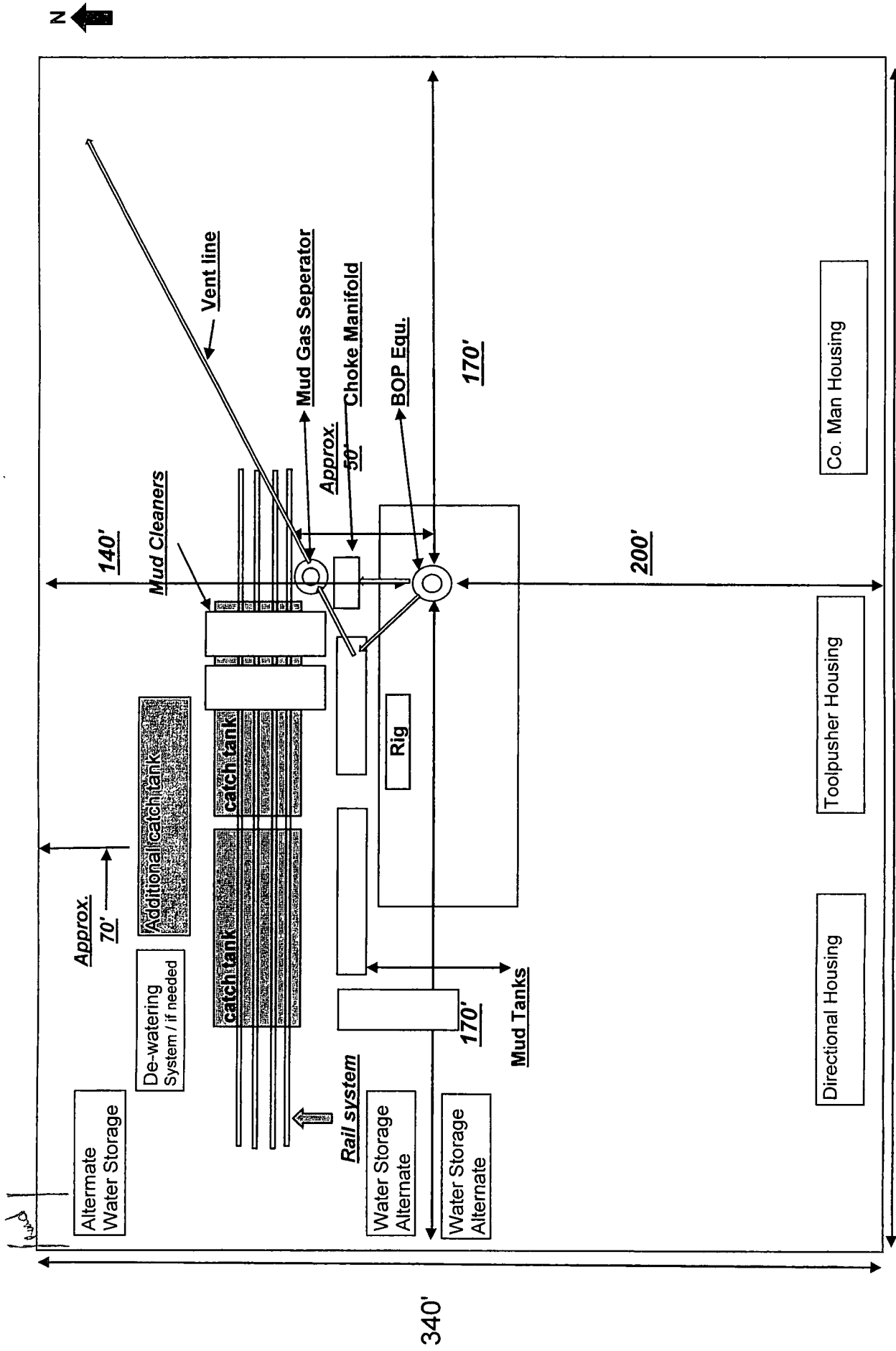
Size: OD = 8" ID = 4"

Ends: Flanges Size: 4-1/16"

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

M I D W E S T
HOSE AND SPECIALTY INC.

INTERNAL HYDROSTATIC TEST REPORT			
Customer: CACTUS		P.O. Number: RIG #123 Asset # M10761	
HOSE SPECIFICATIONS			
Type: CHOKER LINE		Length: 35'	
I.D. 4" INCHES		O.D. 8" INCHES	
WORKING PRESSURE 10,000 PSI	TEST PRESSURE 15,000 PSI	BURST PRESSURE PSI	
COUPLINGS			
Type of End Fitting 4 1/16 10K FLANGE			
Type of Coupling: SWEDGED		MANUFACTURED BY MIDWEST HOSE & SPECIALTY	
PROCEDURE			
<i>Hose assembly pressure tested with water at ambient temperature.</i>			
TIME HELD AT TEST PRESSURE 1 MIN.		ACTUAL BURST PRESSURE: 0 PSI	
COMMENTS: SN#90067 M10761 Hose is covered with stainless steel armour cover and wrapped with fire resistant vermiculite coated fiberglass insulation rated for 1500 degrees complete with lifting eyes			
Date: 6/6/2011	Tested By: BOBBY FINK		Approved: MENDI JACKSON



EOG Resources / Closed Loop Location Design Plan

Not to scale