



B.C Operating, Inc.

Lea County
Gay Nineties 3H

Plan: 140905 Gay Nineties #3H

MOJO Standard Plan

09 September, 2014



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Company: B.C. Operating, Inc. Project: Lea County Site: Gay Nineties #3H Well: Gay Nineties #3H Wellbore: Gay Nineties #3H Design: 140905 Gay Nineties #3H		Local Co-ordinate Reference: TVD Reference: WELL @ 3591.0usft (Original Well:Elev) MD Reference: WELL @ 3591.0usft (Original Well:Elev) North Reference: Grid Survey/Calculation Method: Minimum Curvature Database: EDM 5000.1 Single User Db		Well: Gay Nineties #3H WELL @ 3591.0usft (Original Well:Elev) Grid Minimum Curvature EDM 5000.1 Single User Db	
Project Lea County		System Datum: Mean Sea Level			
Map System: US State Plane 1983					
Geo Datum: North American Datum 1983					
Map Zone: New Mexico Eastern Zone					
Site Gay Nineties 3H					
Site Position:		Northing: 587 950.88 usft		Latitude: 32° 36' 53.362 N	
From: Map		Easting: 730 662.52 usft		Longitude: 103° 43' 6.422 W	
Position Uncertainty: 0.0 usft		Slot Radius: 13-3/16 "		Grid Convergence: 0.33 °	
Well Gay Nineties #3H					
Well Position		Northing: 587 950.88 usft		Latitude: 32° 36' 53.362 N	
+N/S 0.0 usft		Easting: 730 662.52 usft		Longitude: 103° 43' 6.422 W	
+E/W 0.0 usft		Wellhead Elevation: usft		Ground Level: 3,569.0 usft	
Wellbore Gay Nineties #3H					
Magnetics		Dip Angle (°)		Field Strength (nT)	
IGRF2010		7.29		60.44	
05/09/2014		48.511			
Design 140905 Gay Nineties #3H					
Audit Notes:					
Version:		Phase: PLAN		Tie On Depth: 0.0	
Vertical Section		Depth From (TVD) (usft)		Direction (°)	
		0.0		186.14	
Survey Tool Program		Date 09/09/2014			
From (usft)		To (usft)		Description	
0.0		17,046.8		140905 Gay Nineties #3H (Gay Nineties #	

Company Project:		B.C. Operating, Inc. Lea County		Local Co-ordinate Reference							Well: Gay Nineties #3H WELL @ 3591.0usft (Original Well Elev) WELL @ 3591.0usft (Original Well Elev) Grid: Minimum Curvature EDM 5000.1 Single User Db.				
Site	Well	Wellbore	Design	Gay Nineties 3H	Gay Nineties #3H	Gay Nineties #3H	140905 Gay Nineties #3H	TVD	TVDSS	N/S	EW	V/Sec	D Leg	North	East
(usft)	(°)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°/100usft)	(usft)	(usft)
0.0	0.00	0.00	0.00	0.00	-3,591.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	587,950.88	730,662.52
100.0	0.00	0.00	0.00	100.0	-3,491.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	587,950.88	730,662.52
200.0	0.00	0.00	0.00	200.0	-3,391.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	587,950.88	730,662.52
300.0	0.00	0.00	0.00	300.0	-3,291.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	587,950.88	730,662.52
400.0	0.00	0.00	0.00	400.0	-3,191.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	587,950.88	730,662.52
500.0	0.00	0.00	0.00	500.0	-3,091.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	587,950.88	730,662.52
600.0	0.00	0.00	0.00	600.0	-2,991.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	587,950.88	730,662.52
700.0	0.00	0.00	0.00	700.0	-2,891.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	587,950.88	730,662.52
800.0	0.00	0.00	0.00	800.0	-2,791.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	587,950.88	730,662.52
900.0	0.00	0.00	0.00	900.0	-2,691.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	587,950.88	730,662.52
1,000.0	0.00	0.00	0.00	1,000.0	-2,591.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	587,950.88	730,662.52
1,100.0	0.00	0.00	0.00	1,100.0	-2,491.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	587,950.88	730,662.52
1,200.0	0.00	0.00	0.00	1,200.0	-2,391.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	587,950.88	730,662.52
1,300.0	0.00	0.00	0.00	1,300.0	-2,291.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	587,950.88	730,662.52
1,400.0	0.00	0.00	0.00	1,400.0	-2,191.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	587,950.88	730,662.52
1,500.0	0.00	0.00	0.00	1,500.0	-2,091.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	587,950.88	730,662.52
1,600.0	0.00	0.00	0.00	1,600.0	-1,991.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	587,950.88	730,662.52
1,700.0	0.00	0.00	0.00	1,700.0	-1,891.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	587,950.88	730,662.52
1,800.0	0.00	0.00	0.00	1,800.0	-1,791.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	587,950.88	730,662.52
1,900.0	0.00	0.00	0.00	1,900.0	-1,691.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	587,950.88	730,662.52
2,000.0	0.00	0.00	0.00	2,000.0	-1,591.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	587,950.88	730,662.52
2,100.0	0.00	0.00	0.00	2,100.0	-1,491.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	587,950.88	730,662.52
2,200.0	0.00	0.00	0.00	2,200.0	-1,391.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	587,950.88	730,662.52
2,300.0	0.00	0.00	0.00	2,300.0	-1,291.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	587,950.88	730,662.52
2,400.0	0.00	0.00	0.00	2,400.0	-1,191.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	587,950.88	730,662.52
2,500.0	0.00	0.00	0.00	2,500.0	-1,091.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	587,950.88	730,662.52
2,600.0	0.00	0.00	0.00	2,600.0	-991.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	587,950.88	730,662.52

Company: Project: Site: Well: Wellbore: Design:			B.C. Operating, Inc. Lea County Gay Nineties 3H Gay Nineties #3H Gay Nineties #3H- 140905 Gay Nineties #3H-			Local Co-ordinates Reference TVD Reference: MD Reference: North Reference: Survey Calculation Method: Database: Well Gay Nineties #3H- WELL @ 3591.0usft (Original Well Elev.) WELL @ 3591.0usft (Original Well Elev.) Grid Minimum Curvature EDM 5000.1 Single User Db				
MD (usft)	Inc (°)	Azi((azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	Y Sec (usft)	Diag (°/100usft)	Northing (usft)	Easting (usft)
2,700.0	0.00	0.00	2,700.0	-891.0	0.0	0.0	0.0	0.0	587,950.88	730,662.52
2,800.0	0.00	0.00	2,800.0	-791.0	0.0	0.0	0.0	0.0	587,950.88	730,662.52
2,900.0	0.00	0.00	2,900.0	-691.0	0.0	0.0	0.0	0.0	587,950.88	730,662.52
3,000.0	0.00	0.00	3,000.0	-591.0	0.0	0.0	0.0	0.0	587,950.88	730,662.52
3,100.0	0.00	0.00	3,100.0	-491.0	0.0	0.0	0.0	0.0	587,950.88	730,662.52
3,200.0	0.00	0.00	3,200.0	-391.0	0.0	0.0	0.0	0.0	587,950.88	730,662.52
3,300.0	0.00	0.00	3,300.0	-291.0	0.0	0.0	0.0	0.0	587,950.88	730,662.52
3,400.0	0.00	0.00	3,400.0	-191.0	0.0	0.0	0.0	0.0	587,950.88	730,662.52
3,500.0	0.00	0.00	3,500.0	-91.0	0.0	0.0	0.0	0.0	587,950.88	730,662.52
3,600.0	0.00	0.00	3,600.0	9.0	0.0	0.0	0.0	0.0	587,950.88	730,662.52
3,700.0	0.00	0.00	3,700.0	109.0	0.0	0.0	0.0	0.0	587,950.88	730,662.52
3,800.0	0.00	0.00	3,800.0	209.0	0.0	0.0	0.0	0.0	587,950.88	730,662.52
3,900.0	0.00	0.00	3,900.0	309.0	0.0	0.0	0.0	0.0	587,950.88	730,662.52
4,000.0	0.00	0.00	4,000.0	409.0	0.0	0.0	0.0	0.0	587,950.88	730,662.52
4,100.0	0.00	0.00	4,100.0	509.0	0.0	0.0	0.0	0.0	587,950.88	730,662.52
4,200.0	0.00	0.00	4,200.0	609.0	0.0	0.0	0.0	0.0	587,950.88	730,662.52
4,300.0	0.00	0.00	4,300.0	709.0	0.0	0.0	0.0	0.0	587,950.88	730,662.52
4,400.0	0.00	0.00	4,400.0	809.0	0.0	0.0	0.0	0.0	587,950.88	730,662.52
4,500.0	0.00	0.00	4,500.0	909.0	0.0	0.0	0.0	0.0	587,950.88	730,662.52
4,600.0	0.00	0.00	4,600.0	1,009.0	0.0	0.0	0.0	0.0	587,950.88	730,662.52
4,700.0	0.00	0.00	4,700.0	1,109.0	0.0	0.0	0.0	0.0	587,950.88	730,662.52
4,800.0	0.00	0.00	4,800.0	1,209.0	0.0	0.0	0.0	0.0	587,950.88	730,662.52
4,900.0	0.00	0.00	4,900.0	1,309.0	0.0	0.0	0.0	0.0	587,950.88	730,662.52
5,000.0	0.00	0.00	5,000.0	1,409.0	0.0	0.0	0.0	0.0	587,950.88	730,662.52
5,100.0	0.00	0.00	5,100.0	1,509.0	0.0	0.0	0.0	0.0	587,950.88	730,662.52
5,200.0	0.00	0.00	5,200.0	1,609.0	0.0	0.0	0.0	0.0	587,950.88	730,662.52
5,300.0	0.00	0.00	5,300.0	1,709.0	0.0	0.0	0.0	0.0	587,950.88	730,662.52

Company: Project: Site: Well: Wellbore: Design:		B/C Operating, Inc. Lea County Gay Nineties 3H Gay Nineties #3H Gay Nineties #3H 140905 Gay Nineties #3H		Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey/Calculation Method: Database:					Well Gay Nineties #3H WELL @ 3591.0usft (Original Well Elev) WELL @ 3591.0usft (Original Well Elev) Grid: Minimum Curvature EDM 5000.1 Single User Db				
Planned Survey													
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVSS (usft)	N/S (usft)	E/W (usft)	V/Sec (usft)	D/Lag (P/100usft)	Northing (usft)	Easting (usft)			
5,400.0	0.00	0.00	5,400.0	1,809.0	0.0	0.0	0.0	0.0	587,950.88	730,662.52			
5,500.0	0.00	0.00	5,500.0	1,909.0	0.0	0.0	0.0	0.0	587,950.88	730,662.52			
5,600.0	0.00	0.00	5,600.0	2,009.0	0.0	0.0	0.0	0.0	587,950.88	730,662.52			
5,700.0	0.00	0.00	5,700.0	2,109.0	0.0	0.0	0.0	0.0	587,950.88	730,662.52			
5,800.0	0.00	0.00	5,800.0	2,209.0	0.0	0.0	0.0	0.0	587,950.88	730,662.52			
5,900.0	0.00	0.00	5,900.0	2,309.0	0.0	0.0	0.0	0.0	587,950.88	730,662.52			
6,000.0	0.00	0.00	6,000.0	2,409.0	0.0	0.0	0.0	0.0	587,950.88	730,662.52			
6,100.0	0.00	0.00	6,100.0	2,509.0	0.0	0.0	0.0	0.0	587,950.88	730,662.52			
6,200.0	0.00	0.00	6,200.0	2,609.0	0.0	0.0	0.0	0.0	587,950.88	730,662.52			
6,300.0	0.00	0.00	6,300.0	2,709.0	0.0	0.0	0.0	0.0	587,950.88	730,662.52			
6,400.0	0.00	0.00	6,400.0	2,809.0	0.0	0.0	0.0	0.0	587,950.88	730,662.52			
6,500.0	0.00	0.00	6,500.0	2,909.0	0.0	0.0	0.0	0.0	587,950.88	730,662.52			
6,600.0	0.00	0.00	6,600.0	3,009.0	0.0	0.0	0.0	0.0	587,950.88	730,662.52			
6,700.0	0.00	0.00	6,700.0	3,109.0	0.0	0.0	0.0	0.0	587,950.88	730,662.52			
6,800.0	0.00	0.00	6,800.0	3,209.0	0.0	0.0	0.0	0.0	587,950.88	730,662.52			
6,900.0	0.00	0.00	6,900.0	3,309.0	0.0	0.0	0.0	0.0	587,950.88	730,662.52			
7,000.0	0.00	0.00	7,000.0	3,409.0	0.0	0.0	0.0	0.0	587,950.88	730,662.52			
7,100.0	0.00	0.00	7,100.0	3,509.0	0.0	0.0	0.0	0.0	587,950.88	730,662.52			
7,200.0	0.00	0.00	7,200.0	3,609.0	0.0	0.0	0.0	0.0	587,950.88	730,662.52			
7,300.0	0.00	0.00	7,300.0	3,709.0	0.0	0.0	0.0	0.0	587,950.88	730,662.52			
7,400.0	0.00	0.00	7,400.0	3,809.0	0.0	0.0	0.0	0.0	587,950.88	730,662.52			
7,500.0	0.00	0.00	7,500.0	3,909.0	0.0	0.0	0.0	0.0	587,950.88	730,662.52			
7,600.0	0.00	0.00	7,600.0	4,009.0	0.0	0.0	0.0	0.0	587,950.88	730,662.52			
7,700.0	0.00	0.00	7,700.0	4,109.0	0.0	0.0	0.0	0.0	587,950.88	730,662.52			
7,800.0	0.00	0.00	7,800.0	4,209.0	0.0	0.0	0.0	0.0	587,950.88	730,662.52			
7,900.0	0.00	0.00	7,900.0	4,309.0	0.0	0.0	0.0	0.0	587,950.88	730,662.52			
8,000.0	0.00	0.00	8,000.0	4,409.0	0.0	0.0	0.0	0.0	587,950.88	730,662.52			

Company: Project: Site: Well: Wellbore: Design:		B.C. Operating, Inc. Lea County, Gay Nineties 3H Gay Nineties 3H Gay Nineties 3H 140905 Gay Nineties 3H		Local Co-ordinate Reference TVD Reference MD Reference North Reference Survey/Calculation Method: Database			Well: Gay Nineties 3H WELL @ 3591.0usft (Original Well Elev) WELL @ 3591.0usft (Original Well Elev) Grid: Minimum Curvature EDM 5000.1 Single User Db			
Planned Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	EW (usft)	V/Geo (usft)	2D Leg (100usft)	Northing (usft)	Easting (usft)
8,100.0		0.00	8,100.0	4,509.0	0.0	0.0	0.0	0.0	587,950.88	730,662.52
8,200.0		0.00	8,200.0	4,609.0	0.0	0.0	0.0	0.0	587,950.88	730,662.52
8,300.0		0.00	8,300.0	4,709.0	0.0	0.0	0.0	0.0	587,950.88	730,662.52
8,400.0		0.00	8,400.0	4,809.0	0.0	0.0	0.0	0.0	587,950.88	730,662.52
8,500.0		0.00	8,500.0	4,909.0	0.0	0.0	0.0	0.0	587,950.88	730,662.52
8,600.0		0.00	8,600.0	5,009.0	0.0	0.0	0.0	0.0	587,950.88	730,662.52
8,700.0		0.00	8,700.0	5,109.0	0.0	0.0	0.0	0.0	587,950.88	730,662.52
8,800.0		0.00	8,800.0	5,209.0	0.0	0.0	0.0	0.0	587,950.88	730,662.52
8,900.0		0.00	8,900.0	5,309.0	0.0	0.0	0.0	0.0	587,950.88	730,662.52
9,000.0		0.00	9,000.0	5,409.0	0.0	0.0	0.0	0.0	587,950.88	730,662.52
9,100.0		0.00	9,100.0	5,509.0	0.0	0.0	0.0	0.0	587,950.88	730,662.52
9,165.5		0.00	9,165.5	5,574.5	0.0	0.0	0.0	0.0	587,950.88	730,662.52
9,200.0	3.48	268.80	9,200.0	5,609.0	0.0	-1.0	0.1	10.10	587,950.86	730,661.47
9,250.0	8.53	268.80	9,249.7	5,658.7	-0.1	-6.3	0.8	10.10	587,950.75	730,656.24
9,300.0	13.58	268.80	9,298.7	5,707.7	-0.3	-15.9	2.0	10.10	587,950.55	730,646.65
9,350.0	18.63	268.80	9,346.8	5,755.8	-0.6	-29.7	3.8	10.10	587,950.26	730,632.79
9,400.0	23.68	268.80	9,393.4	5,802.4	-1.0	-47.8	6.1	10.10	587,949.88	730,614.75
9,450.0	28.73	268.80	9,438.2	5,847.2	-1.5	-69.8	8.9	10.10	587,949.42	730,592.68
9,500.0	33.78	268.80	9,481.0	5,890.0	-2.0	-95.8	12.2	10.10	587,948.87	730,566.75
9,550.0	38.83	268.80	9,521.2	5,930.2	-2.6	-125.4	16.0	10.10	587,948.25	730,537.16
9,600.0	43.88	268.80	9,558.7	5,967.7	-3.3	-158.4	20.2	10.10	587,947.56	730,504.13
9,650.0	48.93	268.80	9,593.2	6,002.2	-4.1	-194.6	24.9	10.10	587,946.80	730,467.94
9,700.0	53.98	268.80	9,624.4	6,033.4	-4.9	-233.7	29.9	10.10	587,945.98	730,428.85
9,752.9	59.33	268.80	9,653.4	6,062.4	-5.8	-277.8	35.5	10.10	587,945.06	730,384.67
9,758.4	59.33	268.80	9,656.2	6,065.2	-5.9	-282.6	36.1	0.00	587,944.96	730,379.95
9,800.0	59.97	263.99	9,677.3	6,086.3	-8.2	-318.4	42.2	10.10	587,942.70	730,344.15
9,850.0	60.96	258.30	9,701.9	6,110.9	-14.9	-361.3	53.4	10.10	587,935.99	730,301.19

09/09/2014 9:11:42AM



MOJO Standard Plan

BC OPERATING, INC.

Company: Project: Site: Well: Wellbore: Design:		B.C. Operating, Inc.: Lea County Gay Nineties 3H Gay Nineties #3H Gay Nineties #3H 140905 Gay Nineties #3H		Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey/Calculation Method: Database: Well: Gay Nineties #3H WELL @ 35910usft (Original Well Elev) WELL @ 35910usft (Original Well Elev) Grid: Minimum Curvature: EDM 5000.1 Single User Db.											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDS (usft)	N/S (usft)	E/W (usft)	V/Sec (usft)	D/Log (%/100usft)	Northing (usft)	Easting (usft)					
11,700.0	90.00	179.77	9,900.0	6,309.0	-1,630.8	-786.7	1,705.6	0.02	586,320.11	729,875.78					
11,800.0	90.00	179.75	9,900.0	6,309.0	-1,730.8	-786.3	1,804.9	0.02	586,220.11	729,876.19					
11,900.0	90.00	179.73	9,900.0	6,309.0	-1,830.8	-785.9	1,904.3	0.02	586,120.11	729,876.64					
12,000.0	90.00	179.71	9,900.0	6,309.0	-1,930.8	-785.4	2,003.7	0.02	586,020.11	729,877.13					
12,100.0	90.00	179.69	9,900.0	6,309.0	-2,030.8	-784.9	2,103.1	0.02	585,920.11	729,877.66					
12,200.0	90.00	179.67	9,900.0	6,309.0	-2,130.8	-784.3	2,202.4	0.02	585,820.11	729,878.22					
12,300.0	90.00	179.64	9,900.0	6,309.0	-2,230.8	-783.7	2,301.8	0.02	585,720.12	729,878.83					
12,400.0	90.00	179.62	9,900.0	6,309.0	-2,330.8	-783.1	2,401.1	0.02	585,620.12	729,879.47					
12,500.0	90.00	179.60	9,900.0	6,309.0	-2,430.8	-782.4	2,500.5	0.02	585,520.12	729,880.14					
12,516.9	90.00	179.60	9,900.0	6,309.0	-2,447.7	-782.3	2,517.3	0.02	585,503.21	729,880.26					
12,600.0	90.00	179.60	9,900.0	6,309.0	-2,530.8	-781.7	2,599.8	0.00	585,420.12	729,880.85					
12,700.0	90.00	179.60	9,900.0	6,309.0	-2,630.8	-781.0	2,699.2	0.00	585,320.12	729,881.55					
12,800.0	90.00	179.60	9,900.0	6,309.0	-2,730.8	-780.3	2,798.5	0.00	585,220.13	729,882.25					
12,900.0	90.00	179.60	9,900.0	6,309.0	-2,830.8	-779.6	2,897.9	0.00	585,120.13	729,882.96					
13,000.0	90.00	179.60	9,900.0	6,309.0	-2,930.7	-778.9	2,997.2	0.00	585,020.13	729,883.66					
13,100.0	90.00	179.60	9,900.0	6,309.0	-3,030.7	-778.2	3,096.6	0.00	584,920.13	729,884.36					
13,200.0	90.00	179.60	9,900.0	6,309.0	-3,130.7	-777.5	3,195.9	0.00	584,820.14	729,885.06					
13,300.0	90.00	179.60	9,900.0	6,309.0	-3,230.7	-776.8	3,295.3	0.00	584,720.14	729,885.77					
13,400.0	90.00	179.60	9,900.0	6,309.0	-3,330.7	-776.1	3,394.6	0.00	584,620.14	729,886.47					
13,500.0	90.00	179.60	9,900.0	6,309.0	-3,430.7	-775.3	3,494.0	0.00	584,520.14	729,887.17					
13,600.0	90.00	179.60	9,900.0	6,309.0	-3,530.7	-774.6	3,593.3	0.00	584,420.15	729,887.87					
13,700.0	90.00	179.60	9,900.0	6,309.0	-3,630.7	-773.9	3,692.7	0.00	584,320.15	729,888.58					
13,800.0	90.00	179.60	9,900.0	6,309.0	-3,730.7	-773.2	3,792.0	0.00	584,220.15	729,889.28					
13,900.0	90.00	179.60	9,900.0	6,309.0	-3,830.7	-772.5	3,891.4	0.00	584,120.15	729,889.98					
14,000.0	90.00	179.60	9,900.0	6,309.0	-3,930.7	-771.8	3,990.7	0.00	584,020.16	729,890.69					
14,100.0	90.00	179.60	9,900.0	6,309.0	-4,030.7	-771.1	4,090.1	0.00	583,920.16	729,891.39					
14,200.0	90.00	179.60	9,900.0	6,309.0	-4,130.7	-770.4	4,189.4	0.00	583,820.16	729,892.09					

Company Project:		B.C. Operating, Inc.		Local Coordinate Reference										Well Gay, Nineties #3H	
Site:	Well:	Lea County	Gay, Nineties 3H	TVD Reference		MD Reference		North Reference		Survey Calculation Method:		Minimum Curvature:		WELL @ 3591.0usft (Original Well Elev)	
Wellbore:	Design:	Gay, Nineties #3H	Gay, Nineties #3H	TVD Reference		MD Reference		North Reference		Survey Calculation Method:		Minimum Curvature:		WELL @ 3591.0usft (Original Well Elev)	
		140905 Gay, Nineties #3H		TVD Reference		MD Reference		North Reference		Survey Calculation Method:		Minimum Curvature:		WELL @ 3591.0usft (Original Well Elev)	
Planned Survey:				TVD Reference		MD Reference		North Reference		Survey Calculation Method:		Minimum Curvature:		WELL @ 3591.0usft (Original Well Elev)	
MD (usft)	Inc (C)	Azi (azimuth) (C)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V/Sec (usft)	D/Sec (usft)	North (usft)	East (usft)	Essing (usft)				
14,300.0	90.00	179.60	9,900.0	6,309.0	-4,230.7	-769.7	4,288.8	0.00	583,720.16	729,892.79					
14,400.0	90.00	179.60	9,900.0	6,309.0	-4,330.7	-769.0	4,388.1	0.00	583,620.17	729,893.50					
14,500.0	90.00	179.60	9,900.0	6,309.0	-4,430.7	-768.3	4,487.5	0.00	583,520.17	729,894.20					
14,600.0	90.00	179.60	9,900.0	6,309.0	-4,530.7	-767.6	4,586.8	0.00	583,420.17	729,894.90					
14,700.0	90.00	179.60	9,900.0	6,309.0	-4,630.7	-766.9	4,686.2	0.00	583,320.17	729,895.61					
14,800.0	90.00	179.60	9,900.0	6,309.0	-4,730.7	-766.2	4,785.5	0.00	583,220.18	729,896.31					
14,900.0	90.00	179.60	9,900.0	6,309.0	-4,830.7	-765.5	4,884.9	0.00	583,120.18	729,897.01					
15,000.0	90.00	179.60	9,900.0	6,309.0	-4,930.7	-764.8	4,984.2	0.00	583,020.18	729,897.71					
15,100.0	90.00	179.60	9,900.0	6,309.0	-5,030.7	-764.1	5,083.6	0.00	582,920.18	729,898.42					
15,200.0	90.00	179.60	9,900.0	6,309.0	-5,130.7	-763.4	5,182.9	0.00	582,820.19	729,899.12					
15,300.0	90.00	179.60	9,900.0	6,309.0	-5,230.7	-762.7	5,282.3	0.00	582,720.19	729,899.82					
15,400.0	90.00	179.60	9,900.0	6,309.0	-5,330.7	-762.0	5,381.6	0.00	582,620.19	729,900.53					
15,500.0	90.00	179.60	9,900.0	6,309.0	-5,430.7	-761.3	5,481.0	0.00	582,520.19	729,901.23					
15,600.0	90.00	179.60	9,900.0	6,309.0	-5,530.7	-760.6	5,580.3	0.00	582,420.20	729,901.93					
15,700.0	90.00	179.60	9,900.0	6,309.0	-5,630.7	-759.9	5,679.7	0.00	582,320.20	729,902.63					
15,800.0	90.00	179.60	9,900.0	6,309.0	-5,730.7	-759.2	5,779.0	0.00	582,220.20	729,903.34					
15,900.0	90.00	179.60	9,900.0	6,309.0	-5,830.7	-758.5	5,878.4	0.00	582,120.20	729,904.04					
16,000.0	90.00	179.60	9,900.0	6,309.0	-5,930.7	-757.8	5,977.7	0.00	582,020.21	729,904.74					
16,100.0	90.00	179.60	9,900.0	6,309.0	-6,030.7	-757.1	6,077.0	0.00	581,920.21	729,905.45					
16,200.0	90.00	179.60	9,900.0	6,309.0	-6,130.7	-756.4	6,176.4	0.00	581,820.21	729,906.15					
16,300.0	90.00	179.60	9,900.0	6,309.0	-6,230.7	-755.7	6,275.7	0.00	581,720.21	729,906.85					
16,400.0	90.00	179.60	9,900.0	6,309.0	-6,330.7	-755.0	6,375.1	0.00	581,620.22	729,907.55					
16,500.0	90.00	179.60	9,900.0	6,309.0	-6,430.7	-754.3	6,474.4	0.00	581,520.22	729,908.26					
16,600.0	90.00	179.60	9,900.0	6,309.0	-6,530.7	-753.6	6,573.8	0.00	581,420.22	729,908.96					
16,700.0	90.00	179.60	9,900.0	6,309.0	-6,630.7	-752.9	6,673.1	0.00	581,320.22	729,909.66					
16,800.0	90.00	179.60	9,900.0	6,309.0	-6,730.7	-752.2	6,772.5	0.00	581,220.23	729,910.37					
16,900.0	90.00	179.60	9,900.0	6,309.0	-6,830.7	-751.5	6,871.8	0.00	581,120.23	729,911.07					

Company:		B.C. Operating, Inc.		Local / Co-ordinate Reference:																
Project:		Lea County		TVD Reference:																
Site:		Gay Nineties #3H		MD Reference:																
Well:		Gay Nineties #3H		North Reference:																
Wellbore:		Gay Nineties #3H		Survey / Calculation Method:																
Design:		140905 Gay Nineties #3H		Database:																
				Well: Gay Nineties #3H WELL @ 3591.01ust (Original Well Elev) WELL @ 3591.01ust (Original Well Elev) Grid: Minimum Curvature EDM: 5000.1 Single User Db																
Planned Survey																				
ID	(ust)	Incl	(°)	Az (azimuth)	TVD	(ust)	TVDSS	(ust)	N/S	(ust)	E/W	(ust)	V Sec	(ust)	Dlog	(1/100ust)	Northing	(ust)	Easting	(ust)
17,000.0		90.00		179.60	9,900.0	9,900.0	6,309.0	6,309.0	-6,930.6	-750.7	6,971.2	0.00	581,020.23	729,911.77						
17,034.1		90.00		179.60	9,900.0	9,900.0	6,309.0	6,309.0	-6,964.8	-750.5	7,005.1	0.00	580,986.12	729,912.01						
17,046.8		90.00		179.60	9,900.0	9,900.0	6,309.0	6,309.0	-6,977.4	-750.4	7,017.7	0.02	580,973.46	729,912.10						

Checked By:

Approved By:

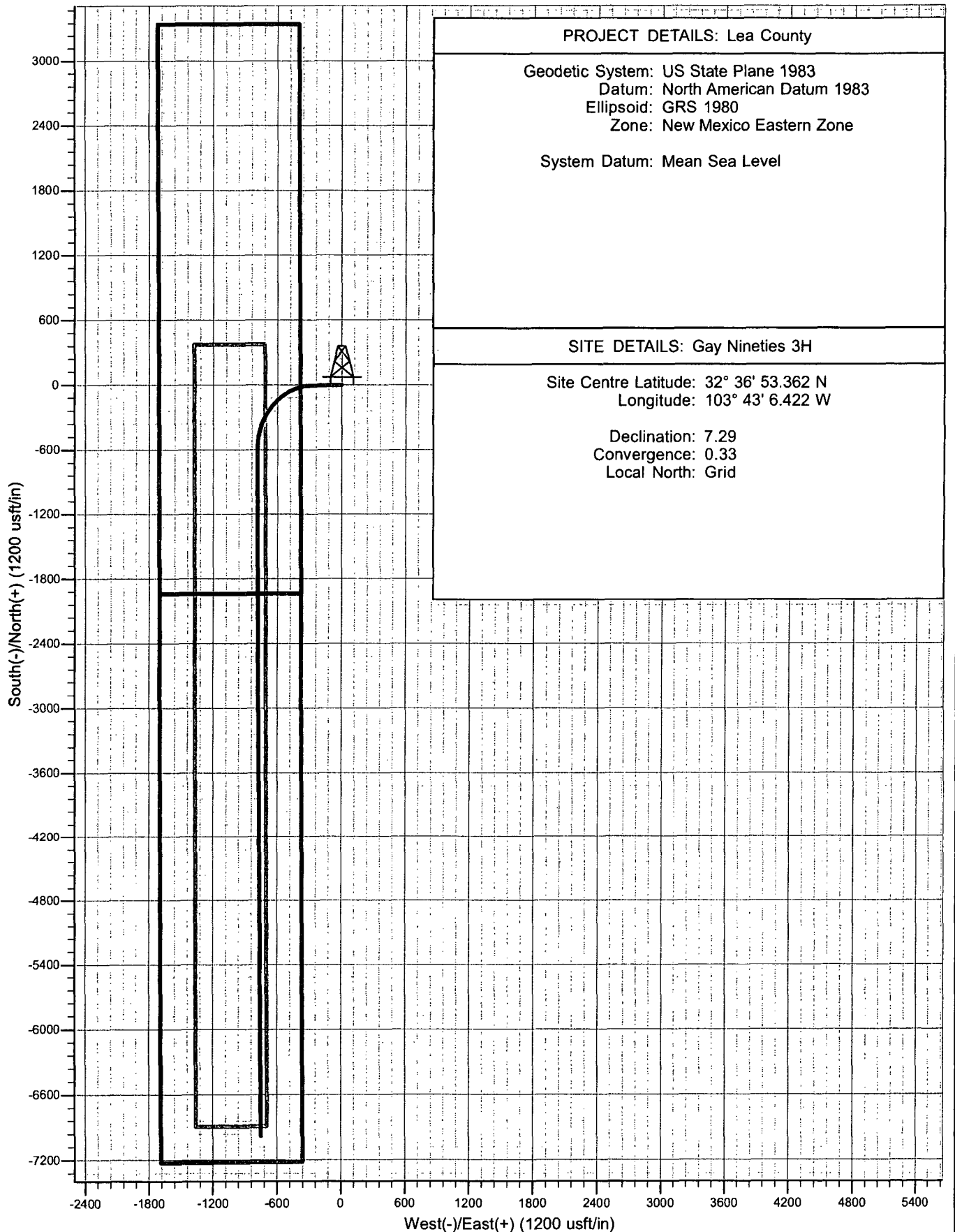
Date:

Project: Lea County
Site: Gay Nineties 3H
Well: Gay Nineties #3H
Wellbore: Gay Nineties #3H
Design: 140905 Gay Nineties #3H



Azimuths to Grid North
True North: -0.33°
Magnetic North: 6.95°

Magnetic Field
Strength: 48511.5nT
Dip Angle: 60.44°
Date: 05/09/2014
Model: IGRF2010



Project: Lea County
 Site: Gay Nineties 3H
 Well: Gay Nineties #3H
 Wellbore: Gay Nineties #3H
 Design: 140905 Gay Nineties #3H



Azimuths to Grid North
 True North: -0.33°
 Magnetic North: 6.95°

Magnetic Field
 Strength: 48511.5nT
 Dip Angle: 60.44°
 Date: 05/09/2014
 Model: IGRF2010

ANNOTATIONS

TVD	MD	Inc	Azi	+N/-S	+E/-W	Vsect	Departure	Annotation
9165.5	9165.5	0.00	0.00	0.0	0.0	0.0	0.0	KOP @ 9165.5
9656.0	9758.0	59.33	268.80	-5.9	-282.2	36.1	282.3	10 def DLS to 90 INC at 179.6 Azm
9900.0	10649.0	90.00	180.01	-579.8	-788.8	660.8	1126.1	Landing Point@10649ftMD/9,900ftTVD
9900.0	17046.0	90.00	179.60	-6976.6	-750.4	7016.9	7523.1	TD @ 17046ftMD

