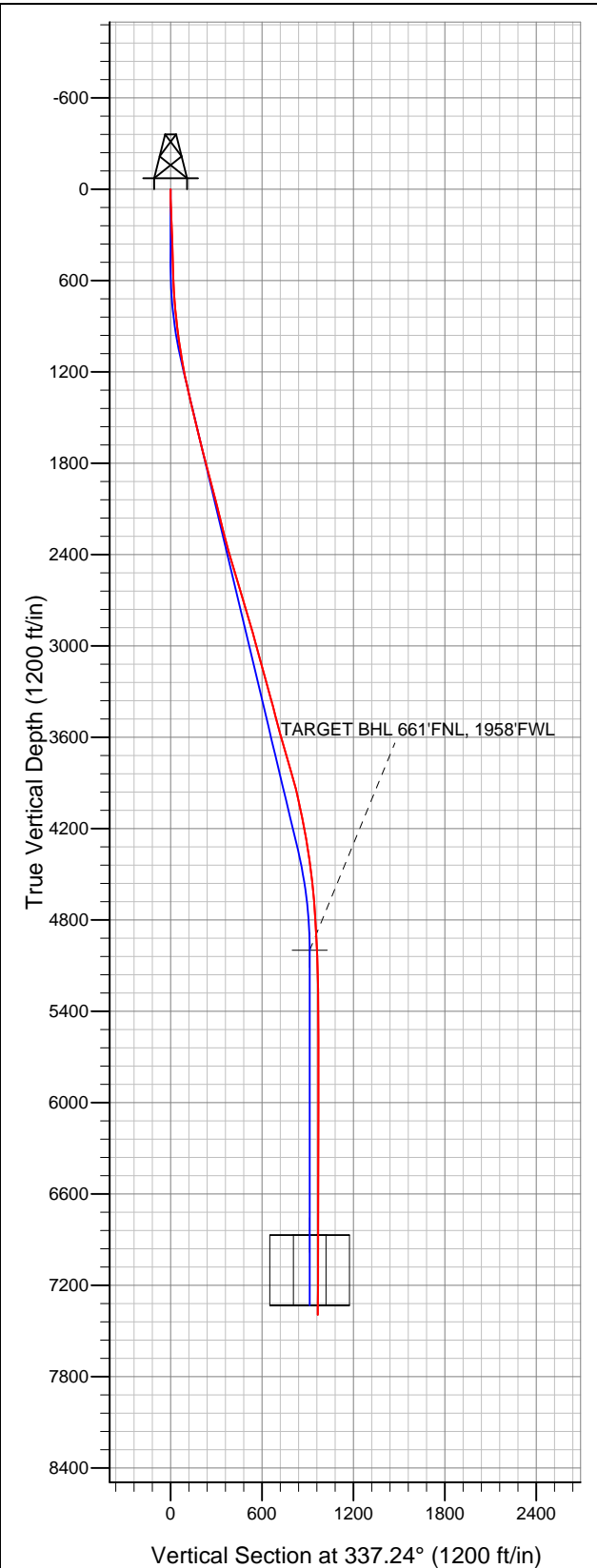


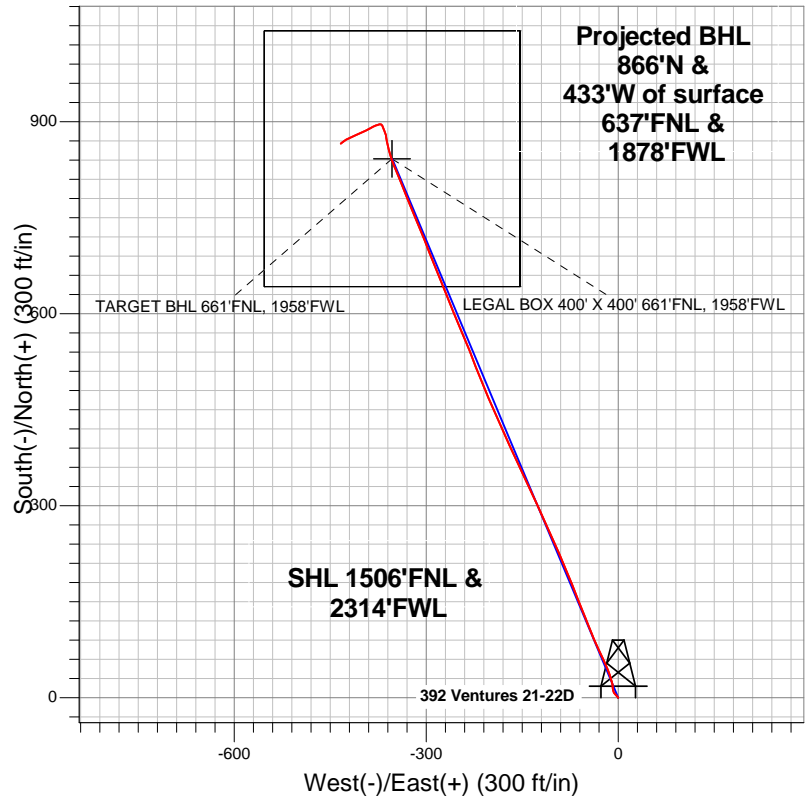
Well Name: 392 Ventures 21-22D

Surface Location: 392 Ventures Pad Sec.22-T6N-R67W
North American Datum 1983 US State Plane 1983Colorado Northern Zone
Ground Elevation: 4784.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1416681.09	3172272.01	40.475540	-104.880757	
Original Well Elev						
WELL @ 4800.0ft (Original Well Elev)						



Peterson Energy Operating Inc.- Weld County, CO



LEGEND

- Wellbore #1
- 392 Ventures 21-22D, Wellbore #1, Plan #2 (12-19-11) R V0
- Survey #1

Final Survey Plot

Projected Final Survey -
7510'MD & 7395'TVD @ 966'VS
2.70 deg Inc 233.00 deg AZ

Project: SEC.22-T6N-R67W
Site: 392 Ventures Pad Sec.22-T6N-R67W
Well: 392 Ventures 21-22D
Plan: Wellbore #1



Peterson Energy Operating Inc.- Weld County, CO

SEC.22-T6N-R67W

392 Ventures Pad Sec.22-T6N-R67W

392 Ventures 21-22D

Wellbore #1

Survey: Survey #1

Standard Survey Report

29 August, 2012

Company:	Peterson Energy Operating Inc.- Weld County, CO	Local Co-ordinate Reference:	Well 392 Ventures 21-22D
Project:	SEC.22-T6N-R67W	TVD Reference:	WELL @ 4800.0ft (Original Well Elev)
Site:	392 Ventures Pad Sec.22-T6N-R67W	MD Reference:	WELL @ 4800.0ft (Original Well Elev)
Well:	392 Ventures 21-22D	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Landmark

Project	SEC.22-T6N-R67W, Weld County, Colorado		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		Using Well Reference Point
Map Zone:	Colorado Northern Zone		Using geodetic scale factor

Site		392 Ventures Pad Sec.22-T6N-R67W			
Site Position:		Northing:	1,416,682.48 ft	Latitude:	40.475544
From:	Lat/Long	Easting:	3,172,256.98 ft	Longitude:	-104.880811
Position Uncertainty:	0.0 ft	Slot Radius:	"	Grid Convergence:	0.40 °

Well	392 Ventures 21-22D					
Well Position	+N-S	0.0 ft	Northing:	1,416,681.09 ft	Latitude:	40.475540
	+E-W	0.0 ft	Easting:	3,172,272.01 ft	Longitude:	-104.880757
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,784.0 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	12/19/2011	8.86	67.08	53,105

Design	Wellbore #1				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.0	0.0	0.0	337.24	

Survey Program	Date	8/29/2012			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
89.0	7,510.0	Survey #1 (Wellbore #1)	MWD	MWD - Standard	

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	
89.0	2.20	320.90	89.0	1.3	-1.1	1.6	2.47	2.47	0.00	
244.0	2.50	316.30	243.8	6.1	-5.3	7.7	0.23	0.19	-2.97	
336.0	2.00	340.50	335.8	9.0	-7.2	11.1	1.15	-0.54	26.30	
422.0	1.00	350.20	421.7	11.2	-7.8	13.4	1.20	-1.16	11.28	
547.0	1.90	353.70	546.7	14.3	-8.3	16.4	0.72	0.72	2.80	
672.0	3.60	350.40	671.6	20.3	-9.1	22.2	1.37	1.36	-2.64	
796.0	5.40	343.70	795.2	29.7	-11.4	31.8	1.51	1.45	-5.40	
921.0	6.90	339.20	919.4	42.4	-15.7	45.2	1.26	1.20	-3.60	
1,046.0	8.90	334.20	1,043.3	58.1	-22.6	62.3	1.69	1.60	-4.00	
1,171.0	10.50	336.30	1,166.5	77.2	-31.4	83.4	1.31	1.28	1.68	
1,296.0	12.10	337.20	1,289.0	99.7	-41.1	107.9	1.29	1.28	0.72	

Company:	Peterson Energy Operating Inc.- Weld County, CO	Local Co-ordinate Reference:	Well 392 Ventures 21-22D
Project:	SEC.22-T6N-R67W	TVD Reference:	WELL @ 4800.0ft (Original Well Elev)
Site:	392 Ventures Pad Sec.22-T6N-R67W	MD Reference:	WELL @ 4800.0ft (Original Well Elev)
Well:	392 Ventures 21-22D	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Landmark

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
1,420.0	13.60	339.10	1,409.9	125.3	-51.3	135.4	1.26	1.21	1.53
1,545.0	13.40	336.70	1,531.5	152.4	-62.3	164.6	0.48	-0.16	-1.92
1,670.0	13.90	338.80	1,652.9	179.7	-73.4	194.1	0.56	0.40	1.68
1,795.0	14.80	337.90	1,774.0	208.5	-84.9	225.1	0.74	0.72	-0.72
1,920.0	15.00	335.90	1,894.8	238.0	-97.5	257.2	0.44	0.16	-1.60
2,044.0	13.80	334.40	2,014.9	266.0	-110.4	288.0	1.01	-0.97	-1.21
2,169.0	13.80	336.20	2,136.3	293.1	-122.9	317.8	0.34	0.00	1.44
2,294.0	14.60	335.20	2,257.5	321.0	-135.5	348.5	0.67	0.64	-0.80
2,419.0	15.40	334.30	2,378.3	350.3	-149.3	380.8	0.67	0.64	-0.72
2,544.0	17.50	335.40	2,498.1	382.3	-164.3	416.1	1.70	1.68	0.88
2,668.0	16.20	335.70	2,616.8	415.1	-179.2	452.1	1.05	-1.05	0.24
2,793.0	15.90	336.60	2,736.9	446.7	-193.2	486.6	0.31	-0.24	0.72
2,918.0	17.10	337.80	2,856.8	479.4	-206.9	522.1	1.00	0.96	0.96
3,043.0	15.30	338.00	2,976.8	511.7	-220.1	557.0	1.44	-1.44	0.16
3,168.0	15.30	338.70	3,097.4	542.4	-232.2	590.0	0.15	0.00	0.56
3,292.0	15.20	336.20	3,217.0	572.5	-244.7	622.6	0.54	-0.08	-2.02
3,417.0	15.50	338.10	3,337.6	603.0	-257.6	655.7	0.47	0.24	1.52
3,542.0	14.50	337.90	3,458.3	633.0	-269.7	688.0	0.80	-0.80	-0.16
3,667.0	15.20	338.50	3,579.1	662.7	-281.6	720.0	0.57	0.56	0.48
3,792.0	16.30	337.80	3,699.4	694.2	-294.2	754.0	0.89	0.88	-0.56
3,916.0	16.50	338.00	3,818.4	726.6	-307.4	789.0	0.17	0.16	0.16
4,041.0	13.80	337.00	3,939.0	756.8	-319.9	821.6	2.17	-2.16	-0.80
4,166.0	12.30	338.60	4,060.8	782.9	-330.5	849.9	1.23	-1.20	1.28
4,291.0	10.40	338.00	4,183.4	805.8	-339.6	874.5	1.52	-1.52	-0.48
4,416.0	9.50	336.50	4,306.5	825.7	-348.0	896.1	0.75	-0.72	-1.20
4,540.0	7.90	342.30	4,429.0	843.2	-354.6	914.8	1.47	-1.29	4.68
4,665.0	6.20	345.80	4,553.1	858.0	-358.9	930.0	1.40	-1.36	2.80
4,790.0	5.00	350.70	4,677.5	869.9	-361.4	942.0	1.03	-0.96	3.92
4,915.0	3.30	346.90	4,802.2	878.8	-363.1	950.8	1.38	-1.36	-3.04
5,040.0	2.90	341.00	4,927.0	885.3	-365.0	957.5	0.41	-0.32	-4.72
5,111.0	2.49	337.47	4,997.9	888.4	-366.2	960.9	0.62	-0.57	-4.97
TARGET BHL 661'FNL, 1958'FWL									
5,164.0	2.20	334.00	5,050.9	890.4	-367.1	963.0	0.62	-0.56	-6.55
5,289.0	1.50	333.70	5,175.8	894.0	-368.8	967.1	0.56	-0.56	-0.24
5,414.0	0.90	283.30	5,300.8	895.7	-370.5	969.3	0.93	-0.48	-40.32
5,539.0	0.90	274.30	5,425.8	896.0	-372.4	970.3	0.11	0.00	-7.20
5,664.0	1.00	236.50	5,550.7	895.4	-374.3	970.5	0.50	0.08	-30.24
5,788.0	0.90	270.40	5,674.7	894.9	-376.2	970.7	0.45	-0.08	27.34
5,913.0	1.10	238.20	5,799.7	894.2	-378.2	970.9	0.47	0.16	-25.76
6,038.0	1.40	259.00	5,924.7	893.3	-380.7	971.0	0.43	0.24	16.64
6,163.0	1.50	233.40	6,049.6	892.0	-383.5	971.0	0.52	0.08	-20.48
6,288.0	1.60	238.50	6,174.6	890.2	-386.3	970.3	0.14	0.08	4.08
6,412.0	1.50	236.90	6,298.5	888.4	-389.2	969.8	0.09	-0.08	-1.29
6,537.0	2.20	253.70	6,423.5	886.8	-392.8	969.7	0.70	0.56	13.44
6,662.0	2.40	243.70	6,548.4	885.0	-397.5	969.8	0.36	0.16	-8.00
6,787.0	2.50	243.20	6,673.3	882.6	-402.3	969.5	0.08	0.08	-0.40
6,912.0	2.70	245.90	6,798.1	880.1	-407.4	969.2	0.19	0.16	2.16
6,982.1	2.93	244.22	6,868.2	878.7	-410.5	969.1	0.34	0.32	-2.39
LEGAL BOX 400' X 400' 661'FNL, 1958'FWL									
7,036.0	3.10	243.10	6,922.0	877.4	-413.1	968.9	0.34	0.32	-2.08
7,161.0	3.60	247.60	7,046.8	874.4	-419.7	968.7	0.45	0.40	3.60
7,286.0	2.30	236.70	7,171.6	871.5	-425.4	968.3	1.13	-1.04	-8.72
7,464.0	2.70	233.00	7,349.4	867.1	-431.8	966.6	0.24	0.22	-2.08

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Well:	392 Ventures 21-22D	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Landmark

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
7,510.0	2.70	233.00	7,395.4	865.7	-433.5	966.0	0.00	0.00	0.00

Checked By: _____	Approved By: _____	Date: _____
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