



## **Enseco Planning Report**

29 October, 2013

### **Bonanza Creek Energy, Inc**

Weld County, Colorado

SW NW, Sec 28, T5N, R61W, 6 PM

Pronghorn 12-42-28HNB

API #: TBD

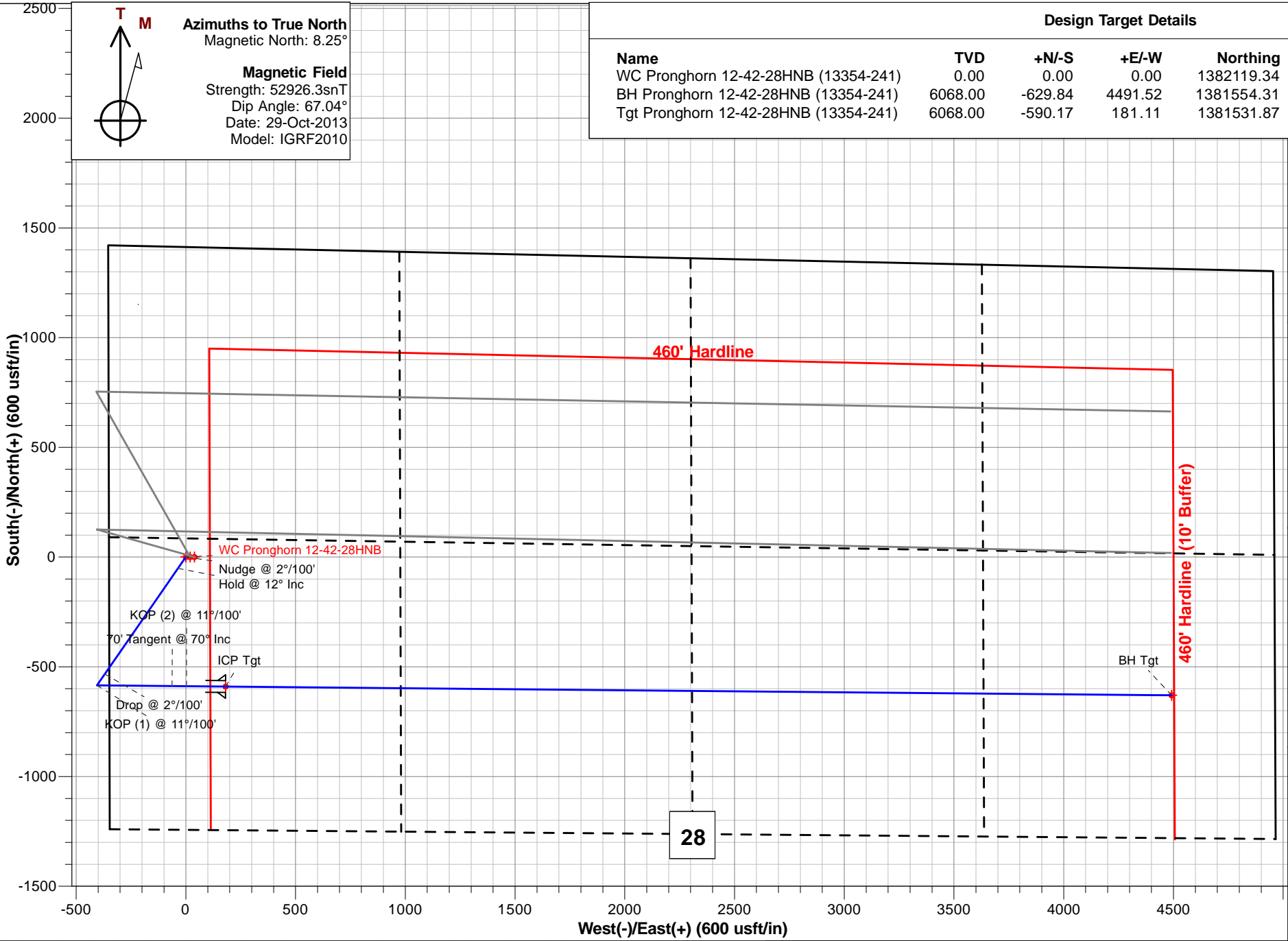
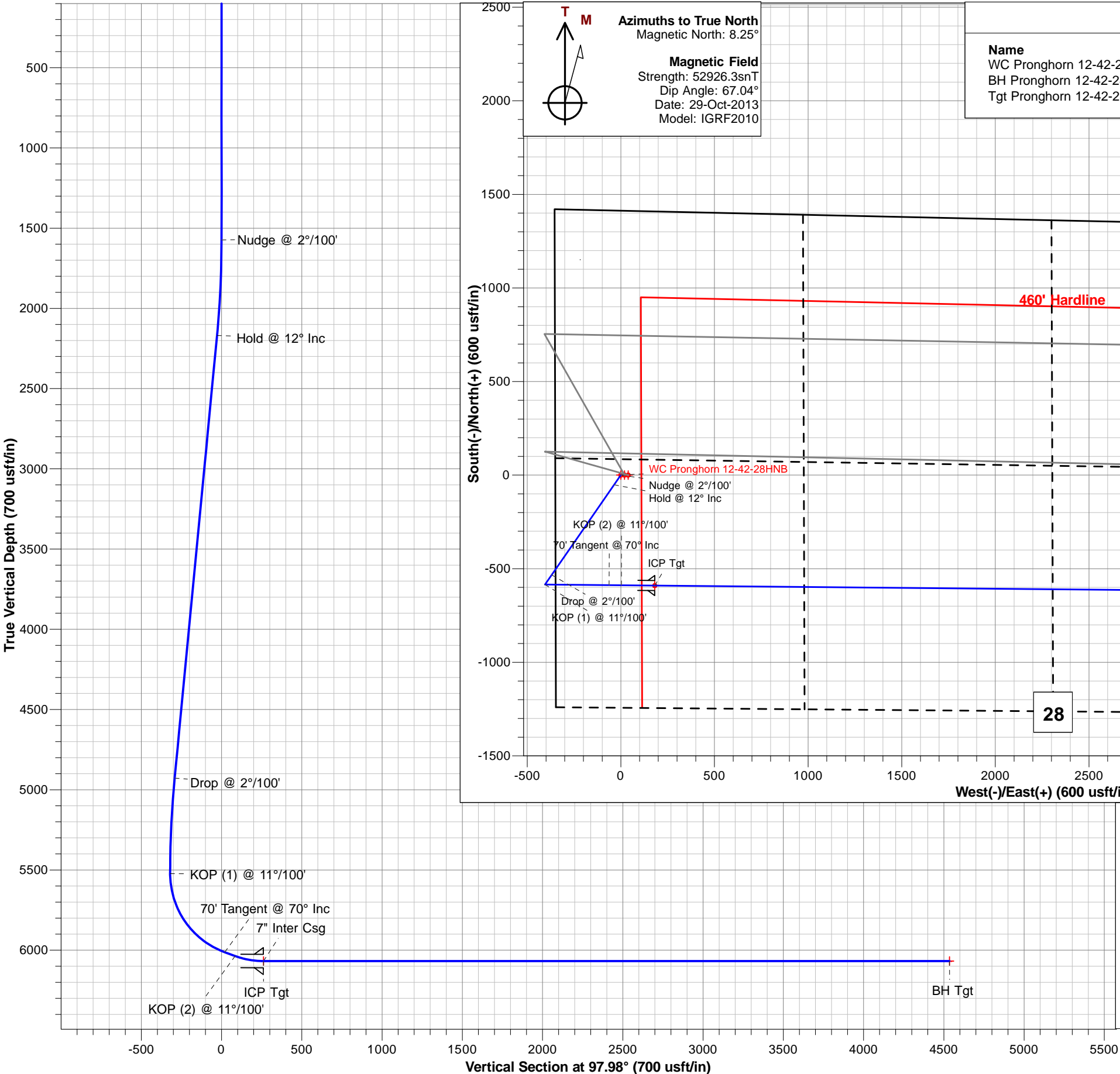
Design: Proposal #1 (13354-241)





# Bonanza Creek Energy, Inc

Project: Weld County, Colorado  
Site: SW NW, Sec 28, T5N, R61W, 6 PM  
Well: Pronghorn 12-42-28HNB  
Wellbore: API #: TBD  
Design: Proposal #1 (13354-241)

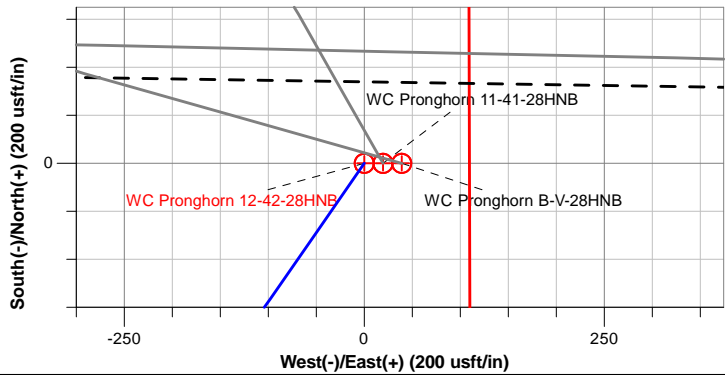


Design Target Details							
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
WC Pronghorn 12-42-28HNB (13354-241)	0.00	0.00	0.00	1382119.34	3355953.41	40.375280°N	104.222360°W
BH Pronghorn 12-42-28HNB (13354-241)	6068.00	-629.84	4491.52	1381554.31	3360453.35	40.373550°N	104.206240°W
Tgt Pronghorn 12-42-28HNB (13354-241)	6068.00	-590.17	181.11	1381531.87	3356142.99	40.373660°N	104.221710°W

SW NW, Sec 28, T5N, R61W, 6 PM
North American Datum 1983 WC Northing: 1382119.34 WC Easting: 3355953.41 WC Latitude: 40.375280°N WC Longitude: 104.222360°W Convergence: 0.826 Local North: True
Project Details: Weld County, Colorado
Geodetic System: US State Plane 1983 Datum: North American Datum 1983 Ellipsoid: GRS 1980 Zone: Colorado Northern Zone
System Datum: Mean Sea Level GL Elev: 4616.00 Kb Elev: Est. Kb @ 4629.00usft (Proposed)

Annotations		
TVD	MD	Annotation
1573.09	1573.09	Nudge @ 2°/100'
2168.71	2173.09	Hold @ 12° Inc
4927.56	4993.58	Drop @ 2°/100'
5523.19	5593.58	KOP (1) @ 11°/100'
6012.65	6229.94	70' Tangent @ 70° Inc
6036.59	6299.94	KOP (2) @ 11°/100'
6068.00	6481.76	ICP Tgt
6068.00	10792.35	BH Tgt

Formation Top Details
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<b>Company:</b>	Bonanza Creek Energy, Inc	<b>Local Co-ordinate Ref:</b>	Pronghorn 12-42-28HNB
<b>Project:</b>	Weld County, Colorado	<b>Ground Level Elevation:</b>	4,616.0usft
<b>Site:</b>	SW NW, Sec 28, T5N, R61W, 6 PM	<b>Wellhead Elevation:</b>	Est. Kb @ 4629.00usft (Proposed)
<b>Well:</b>	Pronghorn 12-42-28HNB	<b>North Reference:</b>	True
<b>Wellbore:</b>	API #: TBD	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Proposal #1 (13354-241)	<b>Database:</b>	EDM5000

<b>Project</b>	Weld County, Colorado		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	Colorado Northern Zone		Using geodetic scale factor

<b>Site</b>	SW NW, Sec 28, T5N, R61W, 6 PM   Site Position: WC Pronghorn 11-41-28HNB		
<b>Site Position:</b>		<b>Northing:</b>	1,382,119.64 usft
<b>From:</b>	Map	<b>Easting:</b>	3,355,972.91 usft
<b>Position Uncertainty:</b>	0.00usft	<b>Slot Radius:</b>	13-3/16 "
		<b>Latitude:</b>	40.375280°N
		<b>Longitude:</b>	104.222290°W
		<b>Grid Convergence:</b>	0.826°

<b>Well</b>	Pronghorn 12-42-28HNB		
<b>Well Position</b>	<b>+N/-S</b>	-0.01 usft	<b>Northing:</b>
	<b>+E/-W</b>	-19.50 usft	<b>Easting:</b>
<b>Position Uncertainty</b>	0.00 usft		<b>Wellhead Elevation:</b>
			<b>Latitude:</b>
			<b>Longitude:</b>
			<b>Ground Level:</b>

<b>Wellbore</b>	API #: TBD				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2010	29-Oct-13	8.248	67.036	52,926

<b>Design</b>	Proposal #1 (13354-241)			
<b>Audit Notes:</b>				
<b>Version:</b>	P1.0	<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>
<b>Vertical Section:</b>		<b>Depth From (TVD) (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>
		0.00	0.00	0.00
				<b>Direction (°)</b>
				97.98

<b>Plan Sections</b>										
MD (usft)	Inc (°)	Azi (°)	Vertical Depth	SS (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)
0.00	0.00	0.00	0.00	4,629.00	0.00	0.00	0.00	0.00	0.00	0.000
1,573.09	0.00	0.00	1,573.09	3,055.91	0.00	0.00	0.00	0.00	0.00	0.000
2,173.09	12.00	214.74	2,168.71	2,460.29	-51.44	-35.67	2.00	2.00	0.00	214.740
4,993.58	12.00	214.74	4,927.56	-298.56	-533.33	-369.84	0.00	0.00	0.00	0.000
5,593.58	0.00	0.00	5,523.19	-894.19	-584.77	-405.51	2.00	-2.00	0.00	180.000
6,229.94	70.00	90.53	6,012.65	-1,383.65	-587.92	-62.81	11.00	11.00	0.00	90.527
6,299.94	70.00	90.53	6,036.59	-1,407.59	-588.53	2.97	0.00	0.00	0.00	0.000
6,481.76	90.00	90.53	6,068.00	-1,439.00	-590.17	181.11	11.00	11.00	0.00	0.000
10,792.35	90.00	90.53	6,068.00	-1,439.00	-629.84	4,491.52	0.00	0.00	0.00	0.000

KOP (1) (13354-241)

Tgt Pronghorn 12-42-28HNB (13354-2)

BH Pronghorn 12-42-28HNB (13354-2)

<b>Company:</b>	Bonanza Creek Energy, Inc	<b>Local Co-ordinate Ref:</b>	Pronghorn 12-42-28HNB
<b>Project:</b>	Weld County, Colorado	<b>Ground Level Elevation:</b>	4,616.0usft
<b>Site:</b>	SW NW, Sec 28, T5N, R61W, 6 PM	<b>Wellhead Elevation:</b>	Est. Kb @ 4629.00usft (Proposed)
<b>Well:</b>	Pronghorn 12-42-28HNB	<b>North Reference:</b>	True
<b>Wellbore:</b>	API #: TBD	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Proposal #1 (13354-241)	<b>Database:</b>	EDM5000

Planned Survey										
MD (usft)	Inc (°)	Azi (°)	TVD (usft)	SS (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
<b>Nudge @ 2°/100'</b>										
1,573.09	0.00	0.00	1,573.09	3,055.91	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.54	214.74	1,600.00	3,029.00	-0.10	-0.07	-0.06	2.00	2.00	0.00
1,700.00	2.54	214.74	1,699.96	2,929.04	-2.31	-1.60	-1.27	2.00	2.00	0.00
1,800.00	4.54	214.74	1,799.76	2,829.24	-7.38	-5.12	-4.04	2.00	2.00	0.00
1,900.00	6.54	214.74	1,899.29	2,729.71	-15.31	-10.62	-8.39	2.00	2.00	0.00
2,000.00	8.54	214.74	1,998.42	2,630.58	-26.09	-18.09	-14.29	2.00	2.00	0.00
2,100.00	10.54	214.74	2,097.03	2,531.97	-39.71	-27.54	-21.75	2.00	2.00	0.00
<b>Hold @ 12° Inc</b>										
2,173.09	12.00	214.74	2,168.71	2,460.29	-51.44	-35.67	-28.18	2.00	2.00	0.00
2,200.00	12.00	214.74	2,195.04	2,433.96	-56.04	-38.86	-30.70	0.00	0.00	0.00
2,300.00	12.00	214.74	2,292.85	2,336.15	-73.13	-50.71	-40.06	0.00	0.00	0.00
2,400.00	12.00	214.74	2,390.66	2,238.34	-90.21	-62.56	-49.42	0.00	0.00	0.00
2,500.00	12.00	214.74	2,488.48	2,140.52	-107.30	-74.41	-58.78	0.00	0.00	0.00
2,600.00	12.00	214.74	2,586.29	2,042.71	-124.38	-86.25	-68.15	0.00	0.00	0.00
2,700.00	12.00	214.74	2,684.11	1,944.89	-141.47	-98.10	-77.51	0.00	0.00	0.00
2,800.00	12.00	214.74	2,781.92	1,847.08	-158.55	-109.95	-86.87	0.00	0.00	0.00
2,900.00	12.00	214.74	2,879.74	1,749.26	-175.64	-121.80	-96.23	0.00	0.00	0.00
3,000.00	12.00	214.74	2,977.55	1,651.45	-192.72	-133.65	-105.59	0.00	0.00	0.00
3,100.00	12.00	214.74	3,075.37	1,553.63	-209.81	-145.49	-114.95	0.00	0.00	0.00
3,200.00	12.00	214.74	3,173.18	1,455.82	-226.89	-157.34	-124.31	0.00	0.00	0.00
3,300.00	12.00	214.74	3,271.00	1,358.00	-243.98	-169.19	-133.67	0.00	0.00	0.00
3,400.00	12.00	214.74	3,368.81	1,260.19	-261.06	-181.04	-143.03	0.00	0.00	0.00
3,500.00	12.00	214.74	3,466.63	1,162.37	-278.15	-192.88	-152.39	0.00	0.00	0.00
3,600.00	12.00	214.74	3,564.44	1,064.56	-295.23	-204.73	-161.75	0.00	0.00	0.00
3,700.00	12.00	214.74	3,662.26	966.74	-312.32	-216.58	-171.11	0.00	0.00	0.00
3,800.00	12.00	214.74	3,760.07	868.93	-329.40	-228.43	-180.47	0.00	0.00	0.00
3,900.00	12.00	214.74	3,857.89	771.11	-346.49	-240.28	-189.83	0.00	0.00	0.00
4,000.00	12.00	214.74	3,955.70	673.30	-363.57	-252.12	-199.19	0.00	0.00	0.00
4,100.00	12.00	214.74	4,053.52	575.48	-380.66	-263.97	-208.55	0.00	0.00	0.00
4,200.00	12.00	214.74	4,151.33	477.67	-397.74	-275.82	-217.91	0.00	0.00	0.00
4,300.00	12.00	214.74	4,249.15	379.85	-414.83	-287.67	-227.27	0.00	0.00	0.00
4,400.00	12.00	214.74	4,346.96	282.04	-431.91	-299.51	-236.63	0.00	0.00	0.00
4,500.00	12.00	214.74	4,444.77	184.23	-449.00	-311.36	-245.99	0.00	0.00	0.00
4,600.00	12.00	214.74	4,542.59	86.41	-466.08	-323.21	-255.35	0.00	0.00	0.00
4,700.00	12.00	214.74	4,640.40	-11.40	-483.17	-335.06	-264.71	0.00	0.00	0.00
4,800.00	12.00	214.74	4,738.22	-109.22	-500.25	-346.91	-274.08	0.00	0.00	0.00
4,900.00	12.00	214.74	4,836.03	-207.03	-517.34	-358.75	-283.44	0.00	0.00	0.00
<b>Drop @ 2°/100'</b>										
4,993.58	12.00	214.74	4,927.56	-298.56	-533.33	-369.84	-292.19	0.00	0.00	0.00
5,000.00	11.87	214.74	4,933.85	-304.85	-534.42	-370.60	-292.79	2.00	-2.00	0.00
5,100.00	9.87	214.74	5,032.05	-403.05	-549.92	-381.35	-301.28	2.00	-2.00	0.00
5,200.00	7.87	214.74	5,130.85	-501.85	-562.59	-390.13	-308.23	2.00	-2.00	0.00
5,300.00	5.87	214.74	5,230.13	-601.13	-572.42	-396.95	-313.61	2.00	-2.00	0.00
5,400.00	3.87	214.74	5,329.76	-700.76	-579.40	-401.79	-317.44	2.00	-2.00	0.00
5,500.00	1.87	214.74	5,429.63	-800.63	-583.51	-404.64	-319.69	2.00	-2.00	0.00
<b>KOP (1) @ 11°/100'</b>										
5,593.58	0.00	0.00	5,523.19	-894.19	-584.77	-405.51	-320.38	2.00	-2.00	0.00
5,600.00	0.71	90.53	5,529.61	-900.61	-584.77	-405.48	-320.34	11.00	11.00	0.00
5,700.00	11.71	90.53	5,628.87	-999.87	-584.87	-394.68	-309.64	11.00	11.00	0.00
5,800.00	22.71	90.53	5,724.25	-1,095.25	-585.14	-365.15	-280.35	11.00	11.00	0.00
5,900.00	33.71	90.53	5,812.24	-1,183.24	-585.58	-317.95	-233.56	11.00	11.00	0.00
6,000.00	44.71	90.53	5,889.61	-1,260.61	-586.16	-254.84	-170.97	11.00	11.00	0.00

<b>Company:</b>	Bonanza Creek Energy, Inc	<b>Local Co-ordinate Ref:</b>	Pronghorn 12-42-28HNB
<b>Project:</b>	Weld County, Colorado	<b>Ground Level Elevation:</b>	4,616.0usft
<b>Site:</b>	SW NW, Sec 28, T5N, R61W, 6 PM	<b>Wellhead Elevation:</b>	Est. Kb @ 4629.00usft (Proposed)
<b>Well:</b>	Pronghorn 12-42-28HNB	<b>North Reference:</b>	True
<b>Wellbore:</b>	API #: TBD	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Proposal #1 (13354-241)	<b>Database:</b>	EDM5000

Planned Survey										
MD (usft)	Inc (°)	Azi (°)	TVD (usft)	SS (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
6,100.00	55.71	90.53	5,953.51	-1,324.51	-586.86	-178.13	-94.91	11.00	11.00	0.00
6,200.00	66.71	90.53	6,001.60	-1,372.60	-587.67	-90.63	-8.14	11.00	11.00	0.00
<b>70° Tangent @ 70° Inc</b>										
<b>6,229.94</b>	<b>70.00</b>	<b>90.53</b>	<b>6,012.65</b>	<b>-1,383.65</b>	<b>-587.92</b>	<b>-62.81</b>	<b>19.45</b>	<b>11.00</b>	<b>11.00</b>	<b>0.00</b>
<b>KOP (2) @ 11°/100'</b>										
<b>6,299.94</b>	<b>70.00</b>	<b>90.53</b>	<b>6,036.59</b>	<b>-1,407.59</b>	<b>-588.53</b>	<b>2.97</b>	<b>84.67</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
6,300.00	70.00	90.53	6,036.61	-1,407.61	-588.53	3.03	84.72	0.00	0.00	0.00
6,400.00	81.01	90.53	6,061.60	-1,432.60	-589.42	99.69	180.58	11.01	11.01	0.00
<b>ICP Tgt - 7" Inter Csg</b>										
<b>6,481.76</b>	<b>90.00</b>	<b>90.53</b>	<b>6,068.00</b>	<b>-1,439.00</b>	<b>-590.17</b>	<b>181.11</b>	<b>261.31</b>	<b>11.00</b>	<b>11.00</b>	<b>0.00</b>
6,500.00	90.00	90.53	6,068.00	-1,439.00	-590.34	199.35	279.40	0.00	0.00	0.00
6,600.00	90.00	90.53	6,068.00	-1,439.00	-591.26	299.35	378.55	0.00	0.00	0.00
6,700.00	90.00	90.53	6,068.00	-1,439.00	-592.18	399.34	477.71	0.00	0.00	0.00
6,800.00	90.00	90.53	6,068.00	-1,439.00	-593.10	499.34	576.86	0.00	0.00	0.00
6,900.00	90.00	90.53	6,068.00	-1,439.00	-594.02	599.33	676.02	0.00	0.00	0.00
7,000.00	90.00	90.53	6,068.00	-1,439.00	-594.94	699.33	775.17	0.00	0.00	0.00
7,100.00	90.00	90.53	6,068.00	-1,439.00	-595.86	799.33	874.33	0.00	0.00	0.00
7,200.00	90.00	90.53	6,068.00	-1,439.00	-596.78	899.32	973.48	0.00	0.00	0.00
7,300.00	90.00	90.53	6,068.00	-1,439.00	-597.70	999.32	1,072.64	0.00	0.00	0.00
7,400.00	90.00	90.53	6,068.00	-1,439.00	-598.62	1,099.31	1,171.79	0.00	0.00	0.00
7,500.00	90.00	90.53	6,068.00	-1,439.00	-599.54	1,199.31	1,270.95	0.00	0.00	0.00
7,600.00	90.00	90.53	6,068.00	-1,439.00	-600.46	1,299.30	1,370.10	0.00	0.00	0.00
7,700.00	90.00	90.53	6,068.00	-1,439.00	-601.38	1,399.30	1,469.25	0.00	0.00	0.00
7,800.00	90.00	90.53	6,068.00	-1,439.00	-602.30	1,499.30	1,568.41	0.00	0.00	0.00
7,900.00	90.00	90.53	6,068.00	-1,439.00	-603.22	1,599.29	1,667.56	0.00	0.00	0.00
8,000.00	90.00	90.53	6,068.00	-1,439.00	-604.14	1,699.29	1,766.72	0.00	0.00	0.00
8,100.00	90.00	90.53	6,068.00	-1,439.00	-605.06	1,799.28	1,865.87	0.00	0.00	0.00
8,200.00	90.00	90.53	6,068.00	-1,439.00	-605.98	1,899.28	1,965.03	0.00	0.00	0.00
8,300.00	90.00	90.53	6,068.00	-1,439.00	-606.90	1,999.27	2,064.18	0.00	0.00	0.00
8,400.00	90.00	90.53	6,068.00	-1,439.00	-607.82	2,099.27	2,163.34	0.00	0.00	0.00
8,500.00	90.00	90.53	6,068.00	-1,439.00	-608.74	2,199.27	2,262.49	0.00	0.00	0.00
8,600.00	90.00	90.53	6,068.00	-1,439.00	-609.66	2,299.26	2,361.65	0.00	0.00	0.00
8,700.00	90.00	90.53	6,068.00	-1,439.00	-610.58	2,399.26	2,460.80	0.00	0.00	0.00
8,800.00	90.00	90.53	6,068.00	-1,439.00	-611.50	2,499.25	2,559.96	0.00	0.00	0.00
8,900.00	90.00	90.53	6,068.00	-1,439.00	-612.42	2,599.25	2,659.11	0.00	0.00	0.00
9,000.00	90.00	90.53	6,068.00	-1,439.00	-613.34	2,699.24	2,758.27	0.00	0.00	0.00
9,100.00	90.00	90.53	6,068.00	-1,439.00	-614.26	2,799.24	2,857.42	0.00	0.00	0.00
9,200.00	90.00	90.53	6,068.00	-1,439.00	-615.18	2,899.24	2,956.57	0.00	0.00	0.00
9,300.00	90.00	90.53	6,068.00	-1,439.00	-616.10	2,999.23	3,055.73	0.00	0.00	0.00
9,400.00	90.00	90.53	6,068.00	-1,439.00	-617.02	3,099.23	3,154.88	0.00	0.00	0.00
9,500.00	90.00	90.53	6,068.00	-1,439.00	-617.94	3,199.22	3,254.04	0.00	0.00	0.00
9,600.00	90.00	90.53	6,068.00	-1,439.00	-618.86	3,299.22	3,353.19	0.00	0.00	0.00
9,700.00	90.00	90.53	6,068.00	-1,439.00	-619.78	3,399.22	3,452.35	0.00	0.00	0.00
9,800.00	90.00	90.53	6,068.00	-1,439.00	-620.70	3,499.21	3,551.50	0.00	0.00	0.00
9,900.00	90.00	90.53	6,068.00	-1,439.00	-621.62	3,599.21	3,650.66	0.00	0.00	0.00
10,000.00	90.00	90.53	6,068.00	-1,439.00	-622.54	3,699.20	3,749.81	0.00	0.00	0.00
10,100.00	90.00	90.53	6,068.00	-1,439.00	-623.46	3,799.20	3,848.97	0.00	0.00	0.00
10,200.00	90.00	90.53	6,068.00	-1,439.00	-624.38	3,899.19	3,948.12	0.00	0.00	0.00
10,300.00	90.00	90.53	6,068.00	-1,439.00	-625.30	3,999.19	4,047.28	0.00	0.00	0.00
10,400.00	90.00	90.53	6,068.00	-1,439.00	-626.22	4,099.19	4,146.43	0.00	0.00	0.00
10,500.00	90.00	90.53	6,068.00	-1,439.00	-627.15	4,199.18	4,245.59	0.00	0.00	0.00
10,600.00	90.00	90.53	6,068.00	-1,439.00	-628.07	4,299.18	4,344.74	0.00	0.00	0.00
10,700.00	90.00	90.53	6,068.00	-1,439.00	-628.99	4,399.17	4,443.89	0.00	0.00	0.00

<b>Company:</b>	Bonanza Creek Energy, Inc	<b>Local Co-ordinate Ref:</b>	Pronghorn 12-42-28HNB
<b>Project:</b>	Weld County, Colorado	<b>Ground Level Elevation:</b>	4,616.0usft
<b>Site:</b>	SW NW, Sec 28, T5N, R61W, 6 PM	<b>Wellhead Elevation:</b>	Est. Kb @ 4629.00usft (Proposed)
<b>Well:</b>	Pronghorn 12-42-28HNB	<b>North Reference:</b>	True
<b>Wellbore:</b>	API #: TBD	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Proposal #1 (13354-241)	<b>Database:</b>	EDM5000

Planned Survey										
MD (usft)	Inc (°)	Azi (°)	TVD (usft)	SS (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
BH Tgt										
10,792.35	90.00	90.53	6,068.00	-1,439.00	-629.84	4,491.52	4,535.47	0.00	0.00	0.00

Targets									
Target Name - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
WC Pronghorn 12-42-28HNB ( - Circle (radius 10.00)	0.00	0.00	0.00	0.00	0.00	1,382,119.34	3,355,953.41	40.375280°N	104.222360°W
WC Pronghorn B-V-28HNB (1 - Circle (radius 10.00)	0.00	0.00	-1.00	0.00	39.01	1,382,119.91	3,355,992.41	40.375280°N	104.222220°W
WC Pronghorn 11-41-28HNB ( - Circle (radius 10.00)	0.00	0.00	0.00	0.01	19.50	1,382,119.64	3,355,972.91	40.375280°N	104.222290°W
BH Pronghorn 12-42-28HNB ( - Circle (radius 10.00)	0.00	0.00	6,068.00	-629.84	4,491.52	1,381,554.31	3,360,453.35	40.373550°N	104.206240°W
Tgt Pronghorn 12-42-28HNB ( - Circle (radius 10.00)	0.00	0.00	6,068.00	-590.17	181.11	1,381,531.87	3,356,142.99	40.373660°N	104.221710°W

Casing Points				
MD (usft)	TVD (usft)	Name	Casing Diameter (")	Hole Diameter (")
6,481.76	6,068.00	7" Inter Csg	7	8-3/4

Plan Annotations				
MD (usft)	TVD (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
1,573.09	1,573.09	0.00	0.00	Nudge @ 2°/100'
2,173.09	2,168.71	-51.44	-35.67	Hold @ 12° Inc
4,993.58	4,927.56	-533.33	-369.84	Drop @ 2°/100'
5,593.58	5,523.19	-584.77	-405.51	KOP (1) @ 11°/100'
6,229.94	6,012.65	-587.92	-62.81	70' Tangent @ 70° Inc
6,299.94	6,036.59	-588.53	2.97	KOP (2) @ 11°/100'
6,481.76	6,068.00	-590.17	181.11	ICP Tgt
10,792.35	6,068.00	-629.84	4,491.52	BH Tgt