

# Wellbore Diagram (proposed)

697-20-37D		Proposed Wellbore																																																																																																																																									
<div style="text-align: center; font-weight: bold; font-size: small;">COMMENTS</div>	<div style="text-align: center; font-weight: bold; font-size: small;">EQUIPMENT DESCRIPTION</div>	<div style="text-align: right; font-size: x-small;"> </div> <table border="1" style="width: 100%; border-collapse: collapse; font-size: x-small;"> <tr><td>FIELD</td><td>Cascade Creek</td></tr> <tr><td>WELL</td><td>697-20-37D</td></tr> <tr><td>COUNTY</td><td>Garfield</td></tr> <tr><td>API No.</td><td>504513953</td></tr> <tr><td>RKB ELEVATION</td><td>6,201</td></tr> <tr><td>GL ELEVATION</td><td>6,183</td></tr> <tr><td>RKB-GL</td><td>18</td></tr> <tr><td>Lat: 39.502974</td><td>Long: -108.239688</td></tr> </table> <div style="font-weight: bold; font-size: x-small;">DIRECTIONAL DATA</div> <table border="1" style="width: 100%; border-collapse: collapse; font-size: x-small;"> <tr> <td>MAX ANGLE</td> <td>NA</td> <td>THRU</td> <td>N/A</td> </tr> <tr> <td>KOP</td> <td>NA</td> <td>TYPE</td> <td>S-SHAPED</td> </tr> </table> <div style="font-weight: bold; font-size: x-small;">PRODUCTION DETAIL</div> <table border="1" style="width: 100%; border-collapse: collapse; font-size: x-small;"> <tr> <th></th> <th>TUBING</th> <th>CASING</th> </tr> <tr><td>SIZE</td><td></td><td>4 1/2</td></tr> <tr><td>WEIGHT</td><td></td><td>11.6</td></tr> <tr><td>GRADE</td><td></td><td>P-110</td></tr> <tr><td>DEPTH</td><td></td><td>6,835</td></tr> <tr><td>THREAD</td><td></td><td>BTC</td></tr> <tr><td>I.D.</td><td></td><td>4.000</td></tr> <tr><td>DRIFT</td><td></td><td>3.875</td></tr> <tr><td>BURST</td><td></td><td>10,690</td></tr> <tr><td>COLLAPSE</td><td></td><td>7,850</td></tr> <tr><td>CAPACITY</td><td></td><td>0.0155</td></tr> <tr><td># JOINTS</td><td></td><td></td></tr> </table> <div style="font-weight: bold; font-size: x-small;">PRODUCTION ASSEMBLY DETAIL</div> <table border="1" style="width: 100%; border-collapse: collapse; font-size: x-small;"> <tr> <th>#</th> <th>O. D. IN</th> <th>I. D. IN</th> <th>LENGTH FT</th> <th>Description</th> </tr> <tr><td>1</td><td></td><td></td><td></td><td></td></tr> <tr><td>2</td><td></td><td>3.875</td><td></td><td>CIBP</td></tr> <tr><td>3</td><td></td><td></td><td></td><td></td></tr> <tr><td>4</td><td></td><td></td><td></td><td></td></tr> <tr><td>5</td><td></td><td></td><td></td><td></td></tr> <tr><td>6</td><td></td><td></td><td></td><td></td></tr> </table> <div style="font-weight: bold; font-size: x-small;">CASING DETAIL</div> <table border="1" style="width: 100%; border-collapse: collapse; font-size: x-small;"> <tr> <th>#</th> <th>SIZE</th> <th>WGHT</th> <th>GRADE</th> <th>THREAD</th> <th>DEPTH</th> </tr> <tr><td>A</td><td>9 5/8</td><td>36</td><td>K-55</td><td>LTC</td><td>1,024</td></tr> <tr><td>B</td><td>4 1/2</td><td>11.6</td><td>P-110</td><td>BTC</td><td>6,835</td></tr> <tr><td>C</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>D</td><td></td><td></td><td></td><td></td><td></td></tr> </table> <div style="font-weight: bold; font-size: x-small;">PRESSURE DATA</div> <table border="1" style="width: 100%; border-collapse: collapse; font-size: x-small;"> <tr> <td>HIGHEST ANTICIPATED PRESSURE</td> <td>3 PSI</td> </tr> <tr><td>Max SICP</td><td></td></tr> <tr> <td>MAXIMUM ALLOWABLE SURFACE PRESS</td> <td>3000 PSI</td> </tr> <tr><td>Valve &amp; BOP rating</td><td></td></tr> </table> <div style="font-weight: bold; font-size: x-small;">WELL COMMUNICATION</div> <table border="1" style="width: 100%; border-collapse: collapse; font-size: x-small;"> <tr> <td></td> <td>N</td> </tr> <tr><td>Comments</td><td></td></tr> </table>	FIELD	Cascade Creek	WELL	697-20-37D	COUNTY	Garfield	API No.	504513953	RKB ELEVATION	6,201	GL ELEVATION	6,183	RKB-GL	18	Lat: 39.502974	Long: -108.239688	MAX ANGLE	NA	THRU	N/A	KOP	NA	TYPE	S-SHAPED		TUBING	CASING	SIZE		4 1/2	WEIGHT		11.6	GRADE		P-110	DEPTH		6,835	THREAD		BTC	I.D.		4.000	DRIFT		3.875	BURST		10,690	COLLAPSE		7,850	CAPACITY		0.0155	# JOINTS			#	O. D. IN	I. D. IN	LENGTH FT	Description	1					2		3.875		CIBP	3					4					5					6					#	SIZE	WGHT	GRADE	THREAD	DEPTH	A	9 5/8	36	K-55	LTC	1,024	B	4 1/2	11.6	P-110	BTC	6,835	C						D						HIGHEST ANTICIPATED PRESSURE	3 PSI	Max SICP		MAXIMUM ALLOWABLE SURFACE PRESS	3000 PSI	Valve & BOP rating			N	Comments	
FIELD	Cascade Creek																																																																																																																																										
WELL	697-20-37D																																																																																																																																										
COUNTY	Garfield																																																																																																																																										
API No.	504513953																																																																																																																																										
RKB ELEVATION	6,201																																																																																																																																										
GL ELEVATION	6,183																																																																																																																																										
RKB-GL	18																																																																																																																																										
Lat: 39.502974	Long: -108.239688																																																																																																																																										
MAX ANGLE	NA	THRU	N/A																																																																																																																																								
KOP	NA	TYPE	S-SHAPED																																																																																																																																								
	TUBING	CASING																																																																																																																																									
SIZE		4 1/2																																																																																																																																									
WEIGHT		11.6																																																																																																																																									
GRADE		P-110																																																																																																																																									
DEPTH		6,835																																																																																																																																									
THREAD		BTC																																																																																																																																									
I.D.		4.000																																																																																																																																									
DRIFT		3.875																																																																																																																																									
BURST		10,690																																																																																																																																									
COLLAPSE		7,850																																																																																																																																									
CAPACITY		0.0155																																																																																																																																									
# JOINTS																																																																																																																																											
#	O. D. IN	I. D. IN	LENGTH FT	Description																																																																																																																																							
1																																																																																																																																											
2		3.875		CIBP																																																																																																																																							
3																																																																																																																																											
4																																																																																																																																											
5																																																																																																																																											
6																																																																																																																																											
#	SIZE	WGHT	GRADE	THREAD	DEPTH																																																																																																																																						
A	9 5/8	36	K-55	LTC	1,024																																																																																																																																						
B	4 1/2	11.6	P-110	BTC	6,835																																																																																																																																						
C																																																																																																																																											
D																																																																																																																																											
HIGHEST ANTICIPATED PRESSURE	3 PSI																																																																																																																																										
Max SICP																																																																																																																																											
MAXIMUM ALLOWABLE SURFACE PRESS	3000 PSI																																																																																																																																										
Valve & BOP rating																																																																																																																																											
	N																																																																																																																																										
Comments																																																																																																																																											
<div style="text-align: center; font-weight: bold; font-size: small;">COMMENTS</div> <p style="margin-top: 20px;">Perforations</p> <p>5,259' - 5,500'</p> <p>5,560' - 5,821'</p> <p>5,915' - 6,092'</p> <p>6,202' - 6,500'</p>	<p style="margin-top: 100px; text-align: center;">2 sxs of cement CIBP @ +/- 5,210'</p>	<div style="text-align: center; font-weight: bold; font-size: small;">EQUIPMENT DESCRIPTION</div>																																																																																																																																									
<div style="display: flex; justify-content: space-between; font-size: x-small;"> <span>           PATD: 6,746 MD 6,452 TVD            TD: 6,835 MD 6,537 TVD         </span> <span>           Last Tag:            Last Workover:         </span> </div>		<div style="display: flex; justify-content: space-between; font-size: x-small;"> <span>Prepared by: S.Awosanya</span> <span>Date: 23-Sep-2014</span> </div>																																																																																																																																									