

DEC 30 2016

FEDERAL M 1B					Current Wellbore																																																																																																																																																																																																																																																																																																																																																																																																							
8.625" Csg TOC: Surface 225 sx B 4.5" Csg TOC: 900' 1285 sx B foamed N2 Mesa Verde Perfs 3785- 4236 4359- 4517 Frac'd in 2 stages w/ 182,100# 20/40 (52 perforations) End of Tubing @ 4640' End of Prod Casing @ 4724'					<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td colspan="6" style="background-color: #d3d3d3;">FIELD</td></tr> <tr><td colspan="6">LARGO</td></tr> <tr><td colspan="6" style="background-color: #d3d3d3;">WELL</td></tr> <tr><td colspan="6">FEDERAL M 1B</td></tr> <tr><td colspan="6" style="background-color: #d3d3d3;">COUNTY</td></tr> <tr><td colspan="6">SAN JUAN</td></tr> <tr><td colspan="6" style="background-color: #d3d3d3;">API No.</td></tr> <tr><td colspan="6">3004530807</td></tr> <tr><td colspan="2" style="background-color: #d3d3d3;">RKB ELEVATION</td><td colspan="2">5,856</td><td colspan="2" style="background-color: #d3d3d3;">SEC:</td></tr> <tr><td colspan="2">GL ELEVATION</td><td colspan="2">5,844</td><td colspan="2">TOWN: 27N</td></tr> <tr><td colspan="2" style="background-color: #d3d3d3;">RKB-GL</td><td colspan="2">12</td><td colspan="2" style="background-color: #d3d3d3;">RANGE:</td></tr> <tr><td colspan="2"></td><td colspan="2"></td><td colspan="2">8W</td></tr> <tr><td colspan="6" style="background-color: #d3d3d3;">DIRECTIONAL DATA</td></tr> <tr><td colspan="2" style="background-color: #d3d3d3;">MAX ANGLE</td><td colspan="2">N/A</td><td colspan="2" style="background-color: #d3d3d3;">THRU</td></tr> <tr><td colspan="2"></td><td colspan="2"></td><td colspan="2">N/A</td></tr> <tr><td colspan="2" style="background-color: #d3d3d3;">KOP</td><td colspan="2">N/A</td><td colspan="2" style="background-color: #d3d3d3;">TYPE</td></tr> <tr><td colspan="2"></td><td colspan="2"></td><td colspan="2">Vertical</td></tr> <tr><td colspan="6" style="background-color: #d3d3d3;">PRODUCTION DETAIL</td></tr> <tr><td colspan="3"></td><td colspan="2" style="background-color: #d3d3d3;">Tubing</td><td style="background-color: #d3d3d3;">Prod Casing</td></tr> <tr><td colspan="3" style="background-color: #d3d3d3;">SIZE</td><td colspan="2">2 3/8"</td><td>4 1/2"</td></tr> <tr><td colspan="3" style="background-color: #d3d3d3;">WEIGHT</td><td colspan="2">4.7ppf</td><td>9.5ppf</td></tr> <tr><td colspan="3" style="background-color: #d3d3d3;">GRADE</td><td colspan="2">J-55</td><td>J-55</td></tr> <tr><td colspan="3" style="background-color: #d3d3d3;">DEPTH</td><td colspan="2">4,640'</td><td>4,724'</td></tr> <tr><td colspan="3" style="background-color: #d3d3d3;">THREAD</td><td colspan="3"></td></tr> <tr><td colspan="3" style="background-color: #d3d3d3;">I.D.</td><td colspan="2">1.995"</td><td>4.090"</td></tr> <tr><td colspan="3" style="background-color: #d3d3d3;">DRIFT</td><td colspan="2">1.901"</td><td>0.3965"</td></tr> <tr><td colspan="3" style="background-color: #d3d3d3;">BURST</td><td colspan="2">7700 PSI</td><td>4380 PSI</td></tr> <tr><td colspan="3" style="background-color: #d3d3d3;">COLLAPSE</td><td colspan="2">8100 PSI</td><td>3310 PSI</td></tr> <tr><td colspan="3" style="background-color: #d3d3d3;">CAPACITY</td><td colspan="2">0.00387 bbl/ft</td><td>0.01625 bbl/ft</td></tr> <tr><td colspan="3" style="background-color: #d3d3d3;"># JOINTS</td><td colspan="3"></td></tr> <tr><td colspan="6" style="background-color: #d3d3d3;">PRODUCTION ASSEMBLY DETAIL</td></tr> <tr> <td>#</td> <td>O. D.</td> <td>I. D.</td> <td>LENGTH</td> <td colspan="2">Description</td> </tr> <tr> <td></td> <td>IN</td> <td>IN</td> <td>FT</td> <td colspan="2"></td> </tr> <tr><td>1</td><td>2.375</td><td>1.995</td><td>4640.00</td><td colspan="2">Tubing joints</td></tr> <tr><td>2</td><td></td><td></td><td></td><td colspan="2"></td></tr> <tr><td>3</td><td></td><td></td><td></td><td colspan="2"></td></tr> <tr><td>4</td><td></td><td></td><td></td><td colspan="2"></td></tr> <tr><td>5</td><td></td><td></td><td></td><td colspan="2"></td></tr> <tr><td>6</td><td></td><td></td><td></td><td colspan="2"></td></tr> <tr><td>7</td><td></td><td></td><td></td><td colspan="2"></td></tr> <tr><td>8</td><td></td><td></td><td></td><td colspan="2"></td></tr> <tr><td>9</td><td></td><td></td><td></td><td colspan="2"></td></tr> <tr><td>10</td><td></td><td></td><td></td><td colspan="2"></td></tr> <tr><td>11</td><td></td><td></td><td></td><td colspan="2"></td></tr> <tr><td>12</td><td></td><td></td><td></td><td colspan="2"></td></tr> <tr><td colspan="6" style="background-color: #d3d3d3;">CASING DETAIL</td></tr> <tr> <td>#</td> <td>SIZE</td> <td>WGHT</td> <td>GRADE</td> <td>JTS</td> <td>DEPTH</td> </tr> <tr> <td>A</td> <td>8 5/8</td> <td>23</td> <td>J-55</td> <td></td> <td>278</td> </tr> <tr> <td>B</td> <td>4 1/2</td> <td>10.5ppf</td> <td>J-55</td> <td></td> <td>4,724</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> <tr><td>E</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>F</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>G</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td colspan="6" style="background-color: #d3d3d3;">PRESSURE DATA</td></tr> <tr><td colspan="6" style="background-color: #d3d3d3;">BOTTOM HOLE PRESSURE</td></tr> <tr><td colspan="6">Estimated (Depleted)</td></tr> <tr><td colspan="6" style="background-color: #d3d3d3;">BOTTOM HOLE TEMPERATURE</td></tr> <tr><td colspan="6">Calculated 148°F</td></tr> <tr><td colspan="6" style="background-color: #d3d3d3;">Prepared by: N. MAXWELL</td></tr> <tr><td colspan="6">Date: 20-Feb-2016</td></tr> <tr> <td colspan="2" style="background-color: #d3d3d3;">Plug Back Total Depth:</td> <td>4666</td> <td>MD</td> <td>4666</td> <td>TVD</td> </tr> <tr> <td colspan="2" style="background-color: #d3d3d3;">Total Depth:</td> <td>4726</td> <td>MD</td> <td>4726</td> <td>TVD</td> </tr> <tr> <td colspan="5"></td> <td>Spud: 9/2002</td> </tr> <tr> <td colspan="5"></td> <td>Last Workover:</td> </tr> </table>		FIELD						LARGO						WELL						FEDERAL M 1B						COUNTY						SAN JUAN						API No.						3004530807						RKB ELEVATION		5,856		SEC:		GL ELEVATION		5,844		TOWN: 27N		RKB-GL		12		RANGE:						8W		DIRECTIONAL DATA						MAX ANGLE		N/A		THRU						N/A		KOP		N/A		TYPE						Vertical		PRODUCTION DETAIL									Tubing		Prod Casing	SIZE			2 3/8"		4 1/2"	WEIGHT			4.7ppf		9.5ppf	GRADE			J-55		J-55	DEPTH			4,640'		4,724'	THREAD						I.D.			1.995"		4.090"	DRIFT			1.901"		0.3965"	BURST			7700 PSI		4380 PSI	COLLAPSE			8100 PSI		3310 PSI	CAPACITY			0.00387 bbl/ft		0.01625 bbl/ft	# JOINTS						PRODUCTION ASSEMBLY DETAIL						#	O. D.	I. D.	LENGTH	Description			IN	IN	FT			1	2.375	1.995	4640.00	Tubing joints		2						3						4						5						6						7						8						9						10						11						12						CASING DETAIL						#	SIZE	WGHT	GRADE	JTS	DEPTH	A	8 5/8	23	J-55		278	B	4 1/2	10.5ppf	J-55		4,724	C						D						E						F						G						PRESSURE DATA						BOTTOM HOLE PRESSURE						Estimated (Depleted)						BOTTOM HOLE TEMPERATURE						Calculated 148°F						Prepared by: N. MAXWELL						Date: 20-Feb-2016						Plug Back Total Depth:		4666	MD	4666	TVD	Total Depth:		4726	MD	4726	TVD						Spud: 9/2002						Last Workover:
FIELD																																																																																																																																																																																																																																																																																																																																																																																																												
LARGO																																																																																																																																																																																																																																																																																																																																																																																																												
WELL																																																																																																																																																																																																																																																																																																																																																																																																												
FEDERAL M 1B																																																																																																																																																																																																																																																																																																																																																																																																												
COUNTY																																																																																																																																																																																																																																																																																																																																																																																																												
SAN JUAN																																																																																																																																																																																																																																																																																																																																																																																																												
API No.																																																																																																																																																																																																																																																																																																																																																																																																												
3004530807																																																																																																																																																																																																																																																																																																																																																																																																												
RKB ELEVATION		5,856		SEC:																																																																																																																																																																																																																																																																																																																																																																																																								
GL ELEVATION		5,844		TOWN: 27N																																																																																																																																																																																																																																																																																																																																																																																																								
RKB-GL		12		RANGE:																																																																																																																																																																																																																																																																																																																																																																																																								
				8W																																																																																																																																																																																																																																																																																																																																																																																																								
DIRECTIONAL DATA																																																																																																																																																																																																																																																																																																																																																																																																												
MAX ANGLE		N/A		THRU																																																																																																																																																																																																																																																																																																																																																																																																								
				N/A																																																																																																																																																																																																																																																																																																																																																																																																								
KOP		N/A		TYPE																																																																																																																																																																																																																																																																																																																																																																																																								
				Vertical																																																																																																																																																																																																																																																																																																																																																																																																								
PRODUCTION DETAIL																																																																																																																																																																																																																																																																																																																																																																																																												
			Tubing		Prod Casing																																																																																																																																																																																																																																																																																																																																																																																																							
SIZE			2 3/8"		4 1/2"																																																																																																																																																																																																																																																																																																																																																																																																							
WEIGHT			4.7ppf		9.5ppf																																																																																																																																																																																																																																																																																																																																																																																																							
GRADE			J-55		J-55																																																																																																																																																																																																																																																																																																																																																																																																							
DEPTH			4,640'		4,724'																																																																																																																																																																																																																																																																																																																																																																																																							
THREAD																																																																																																																																																																																																																																																																																																																																																																																																												
I.D.			1.995"		4.090"																																																																																																																																																																																																																																																																																																																																																																																																							
DRIFT			1.901"		0.3965"																																																																																																																																																																																																																																																																																																																																																																																																							
BURST			7700 PSI		4380 PSI																																																																																																																																																																																																																																																																																																																																																																																																							
COLLAPSE			8100 PSI		3310 PSI																																																																																																																																																																																																																																																																																																																																																																																																							
CAPACITY			0.00387 bbl/ft		0.01625 bbl/ft																																																																																																																																																																																																																																																																																																																																																																																																							
# JOINTS																																																																																																																																																																																																																																																																																																																																																																																																												
PRODUCTION ASSEMBLY DETAIL																																																																																																																																																																																																																																																																																																																																																																																																												
#	O. D.	I. D.	LENGTH	Description																																																																																																																																																																																																																																																																																																																																																																																																								
	IN	IN	FT																																																																																																																																																																																																																																																																																																																																																																																																									
1	2.375	1.995	4640.00	Tubing joints																																																																																																																																																																																																																																																																																																																																																																																																								
2																																																																																																																																																																																																																																																																																																																																																																																																												
3																																																																																																																																																																																																																																																																																																																																																																																																												
4																																																																																																																																																																																																																																																																																																																																																																																																												
5																																																																																																																																																																																																																																																																																																																																																																																																												
6																																																																																																																																																																																																																																																																																																																																																																																																												
7																																																																																																																																																																																																																																																																																																																																																																																																												
8																																																																																																																																																																																																																																																																																																																																																																																																												
9																																																																																																																																																																																																																																																																																																																																																																																																												
10																																																																																																																																																																																																																																																																																																																																																																																																												
11																																																																																																																																																																																																																																																																																																																																																																																																												
12																																																																																																																																																																																																																																																																																																																																																																																																												
CASING DETAIL																																																																																																																																																																																																																																																																																																																																																																																																												
#	SIZE	WGHT	GRADE	JTS	DEPTH																																																																																																																																																																																																																																																																																																																																																																																																							
A	8 5/8	23	J-55		278																																																																																																																																																																																																																																																																																																																																																																																																							
B	4 1/2	10.5ppf	J-55		4,724																																																																																																																																																																																																																																																																																																																																																																																																							
C																																																																																																																																																																																																																																																																																																																																																																																																												
D																																																																																																																																																																																																																																																																																																																																																																																																												
E																																																																																																																																																																																																																																																																																																																																																																																																												
F																																																																																																																																																																																																																																																																																																																																																																																																												
G																																																																																																																																																																																																																																																																																																																																																																																																												
PRESSURE DATA																																																																																																																																																																																																																																																																																																																																																																																																												
BOTTOM HOLE PRESSURE																																																																																																																																																																																																																																																																																																																																																																																																												
Estimated (Depleted)																																																																																																																																																																																																																																																																																																																																																																																																												
BOTTOM HOLE TEMPERATURE																																																																																																																																																																																																																																																																																																																																																																																																												
Calculated 148°F																																																																																																																																																																																																																																																																																																																																																																																																												
Prepared by: N. MAXWELL																																																																																																																																																																																																																																																																																																																																																																																																												
Date: 20-Feb-2016																																																																																																																																																																																																																																																																																																																																																																																																												
Plug Back Total Depth:		4666	MD	4666	TVD																																																																																																																																																																																																																																																																																																																																																																																																							
Total Depth:		4726	MD	4726	TVD																																																																																																																																																																																																																																																																																																																																																																																																							
					Spud: 9/2002																																																																																																																																																																																																																																																																																																																																																																																																							
					Last Workover:																																																																																																																																																																																																																																																																																																																																																																																																							