

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources

Form C-104
Revised August 1, 2011

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit one copy to appropriate District Office

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address Franklin Mountain Energy, LLC 44 Cook Street, Suite 1000 Denver, CO 80206		² OGRID Number 373910	
		³ Reason for Filing Code/ Effective Date RT - Test Allowable	
⁴ API Number 30 – 025-47889	⁵ Pool Name WC-025 G-09 S253502B; LWR BONE SPRING		⁶ Pool Code 98185
⁷ Property Code 329760	⁸ Property Name BEAUTY QUEEN FED COM		⁹ Well Number 604H

II. ¹⁰ Surface Location

UL or lot no. A	Section 2	Township 25S	Range 35E	Lot Idn 1	Feet from the 321	North/South Line FNL	Feet from the 1320	East/West line FEL	County Lea
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¹¹ Bottom Hole Location

UL or lot no. P	Section 11	Township 25S	Range 35E	Lot Idn	Feet from the 150	North/South line FSL	Feet from the 1080	East/West line FEL	County Lea
¹² Lse Code S & F	¹³ Producing Method Code F	¹⁴ Gas Connection Date TBD	¹⁵ C-129 Permit Number N/A		¹⁶ C-129 Effective Date N/A		¹⁷ C-129 Expiration Date N/A		

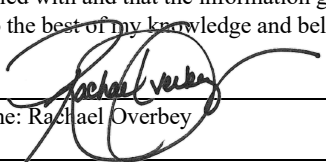
III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
35246	SHELL TRADING US COMPANY 1000 Main, 12th Floor, Houston, TX 77002	O
371960	LUCID ENERGY DELAWARE, LLC 3100 McKinnon St, Suite 800 Dallas, Texas 75201	G
	** TEST ALLOWABLE **	

IV. Well Completion Data

²¹ Spud Date 4/1/2021	²² Ready Date 4/19/2021	²³ TD 21,910'	²⁴ PBTD 21,780'	²⁵ Perforations	²⁶ DHC, MC
²⁷ Hole Size		²⁸ Casing & Tubing Size	²⁹ Depth Set		³⁰ Sacks Cement
17 1/2"		13 3/8"	1,308'		1260
12 1/4"		9 5/8"	5,062'		2397
8 3/4"		7 5/8"	12,197'		665
6 3/4"		5 1/2"	21,878'		905

V. Well Test Data

³¹ Date New Oil	³² Gas Delivery Date	³³ Test Date	³⁴ Test Length	³⁵ Tbg. Pressure	³⁶ Csg. Pressure
³⁷ Choke Size	³⁸ Oil	³⁹ Water	⁴⁰ Gas		⁴¹ Test Method
⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature: 			OIL CONSERVATION DIVISION		
Printed name: Rachael Overbey			Approved by: KURT SIMMONS		
Title: Director, Ops Planning & Regulatory			Title: NMOCD, SANTA FE		
E-mail Address: roverbey@femllc.com			Approval Date: 09/08/2021		
Date: 8/1/2021		Phone: 303-570-4057	RT C-104 EXPIRES 10/08/2021		

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office
☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-47889	² Pool Code 98185	³ Pool Name WC-025 G-09 S253502B; LWR BONE SPRING
⁴ Property Code 329760	⁵ Property Name BEAUTY QUEEN FED COM	⁶ Well Number 604H
⁷ OGRID No. 373910	⁸ Operator Name FRANKLIN MOUNTAIN ENERGY LLC	⁹ Elevation 3259.0'

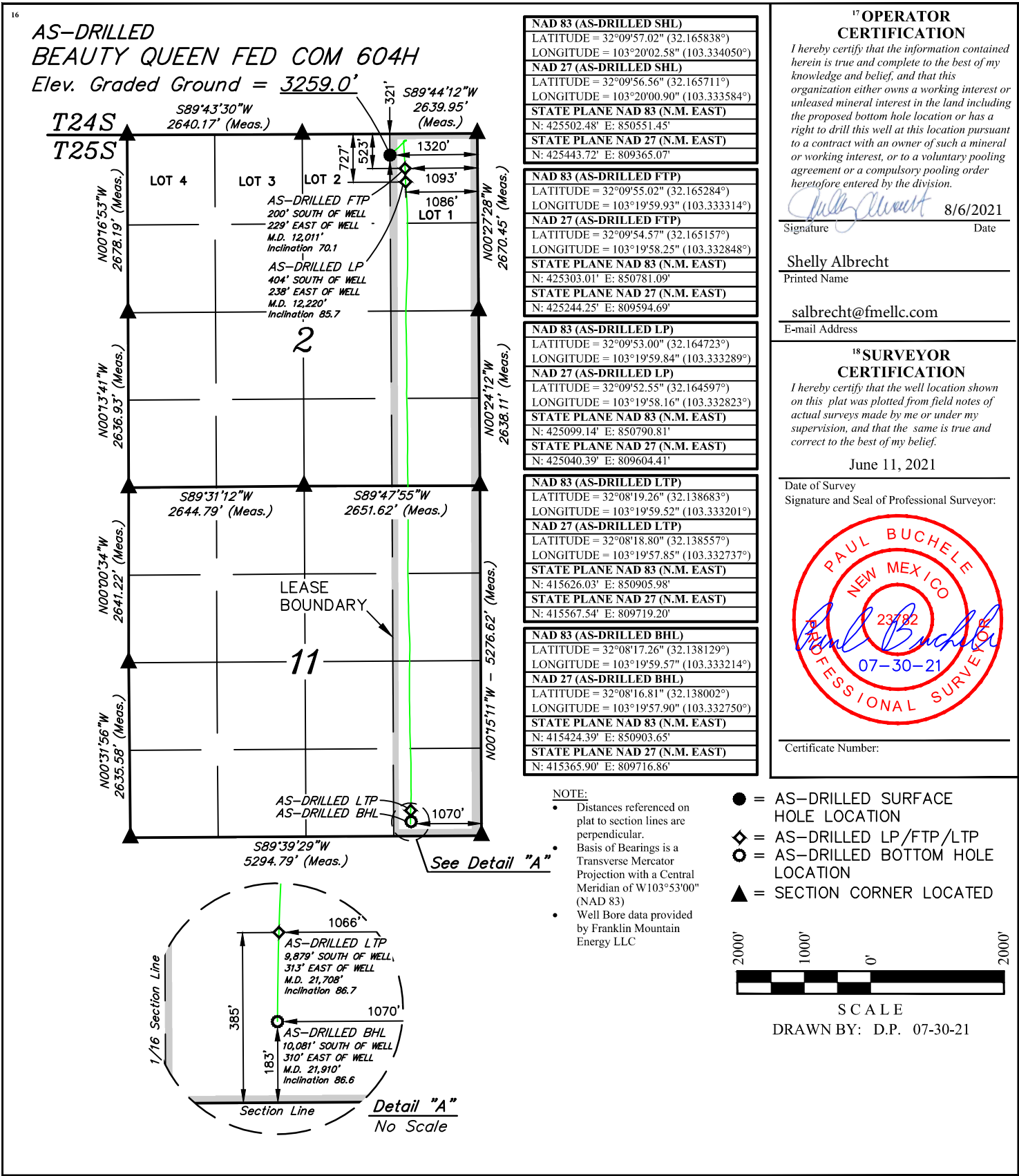
¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
2	2	25S	35E		321	NORTH	1320	EAST	LEA

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	11	25S	35E		183	SOUTH	1070	EAST	LEA
¹² Dedicated Acres 320.81	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.						

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.





Franklin Mountain Energy

Lea County, NM (NAD83)
Parade State/Beauty Queen
Beauty Queen Fed Com 604H

OH

Design: OH

Standard Survey Report

22 April, 2021





Total Directional Services

Survey Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Beauty Queen Fed Com 604H
Project:	Lea County, NM (NAD83)	TVD Reference:	3258' GE + 30' KB @ 3288.00usft
Site:	Parade State/Beauty Queen	MD Reference:	3258' GE + 30' KB @ 3288.00usft
Well:	Beauty Queen Fed Com 604H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.15 Single User Db

Project	Lea County, NM (NAD83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site		Parade State/Beauty Queen			
Site Position:		Northing:	425,502.20 usft	Latitude:	32.165838
From:	Map	Easting:	850,516.61 usft	Longitude:	-103.334163
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.53 °

Well	Beauty Queen Fed Com 604H					
Well Position	+N/-S	0.00 usft	Northing:	425,502.51 usft	Latitude:	32.165838
	+E/-W	0.00 usft	Easting:	850,551.61 usft	Longitude:	-103.334050
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,258.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	3/10/2021	6.46	59.89	47,512.28994490

Design	OH				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	179.42	

Survey Program	Date	4/22/2021			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
62.00	1,239.00	Survey #1 - MWD (OH)	MWD	OWSG MWD - Standard	
1,365.00	21,852.00	Survey #2 - MWD (OH)	OWSG (Rev2) MWD	OWSG MWD - Standard	
21,910.00	21,910.00	Survey #3 - Proj to TD (OH)	BLIND	OWSG BLIND	

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
SHL (Beauty Queen Fed Com 604H)										
62.00	0.70	24.48	62.00	0.34	0.16	-0.34	1.13	1.13	0.00	
211.00	0.30	32.48	210.99	1.50	0.74	-1.49	0.27	-0.27	5.37	
274.00	0.70	115.48	273.99	1.48	1.18	-1.46	1.15	0.63	131.75	
495.00	0.30	64.48	494.98	1.14	2.92	-1.11	0.25	-0.18	-23.08	
589.00	0.60	338.48	588.98	1.71	2.96	-1.68	0.69	0.32	-91.49	
683.00	0.40	209.48	682.98	1.88	2.62	-1.85	0.96	-0.21	-137.23	
777.00	0.50	305.48	776.98	1.83	2.12	-1.81	0.72	0.11	102.13	



Total Directional Services

Survey Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Beauty Queen Fed Com 604H
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Well:	Beauty Queen Fed Com 604H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.15 Single User Db

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
872.00	0.50	228.48	871.97	1.80	1.48	-1.78	0.66	0.00	-81.05
966.00	0.80	275.48	965.97	1.59	0.52	-1.58	0.62	0.32	50.00
998.00	1.00	230.48	997.96	1.43	0.08	-1.43	2.23	0.63	-140.63
1,029.00	0.40	230.48	1,028.96	1.19	-0.21	-1.19	1.94	-1.94	0.00
1,061.00	0.60	276.48	1,060.96	1.14	-0.47	-1.14	1.35	0.63	143.75
1,124.00	0.80	181.48	1,123.96	0.74	-0.81	-0.75	1.65	0.32	-150.79
1,155.00	1.00	178.48	1,154.95	0.25	-0.80	-0.26	0.66	0.65	-9.68
1,218.00	0.30	147.48	1,217.95	-0.44	-0.70	0.43	1.20	-1.11	-49.21
1,239.00	0.40	170.48	1,238.95	-0.56	-0.66	0.55	0.81	0.48	109.52
1,365.00	1.58	176.88	1,364.93	-2.73	-0.49	2.72	0.94	0.94	5.08
1,425.00	1.76	178.37	1,424.90	-4.47	-0.42	4.47	0.31	0.30	2.48
1,520.00	0.53	152.18	1,519.88	-6.32	-0.17	6.32	1.37	-1.29	-27.57
1,614.00	0.57	69.65	1,613.88	-6.54	0.47	6.55	0.77	0.04	-87.80
1,708.00	0.62	78.53	1,707.87	-6.28	1.40	6.29	0.11	0.05	9.45
1,802.00	0.57	345.19	1,801.87	-5.72	1.78	5.74	0.92	-0.05	-99.30
1,897.00	0.97	328.40	1,896.86	-4.58	1.24	4.59	0.48	0.42	-17.67
1,991.00	0.92	343.34	1,990.85	-3.18	0.61	3.19	0.27	-0.05	15.89
2,085.00	1.01	340.27	2,084.84	-1.68	0.11	1.68	0.11	0.10	-3.27
2,180.00	0.88	357.32	2,179.82	-0.16	-0.21	0.16	0.32	-0.14	17.95
2,274.00	0.88	12.08	2,273.81	1.26	-0.09	-1.27	0.24	0.00	15.70
2,369.00	0.92	14.10	2,368.80	2.72	0.25	-2.72	0.05	0.04	2.13
2,463.00	1.10	28.96	2,462.79	4.24	0.87	-4.23	0.34	0.19	15.81
2,557.00	1.27	36.52	2,556.77	5.87	1.93	-5.85	0.25	0.18	8.04
2,652.00	1.58	17.18	2,651.74	7.96	2.94	-7.93	0.60	0.33	-20.36
2,746.00	1.23	9.97	2,745.71	10.20	3.50	-10.16	0.42	-0.37	-7.67
2,840.00	1.32	25.00	2,839.69	12.17	4.13	-12.13	0.37	0.10	15.99
2,935.00	1.36	31.95	2,934.66	14.12	5.19	-14.07	0.18	0.04	7.32
3,029.00	1.93	38.19	3,028.62	16.31	6.76	-16.24	0.63	0.61	6.64
3,124.00	2.33	44.25	3,123.56	18.95	9.10	-18.86	0.48	0.42	6.38
3,218.00	3.96	55.94	3,217.41	22.14	13.12	-22.00	1.85	1.73	12.44
3,312.00	4.92	41.79	3,311.13	26.96	18.49	-26.77	1.54	1.02	-15.05
3,406.00	4.92	63.50	3,404.79	31.76	24.79	-31.51	1.97	0.00	23.10
3,500.00	4.83	59.28	3,498.45	35.58	31.80	-35.26	0.39	-0.10	-4.49
3,595.00	4.48	54.36	3,593.14	39.79	38.25	-39.40	0.56	-0.37	-5.18
3,691.00	3.91	55.50	3,688.88	43.83	44.00	-43.38	0.60	-0.59	1.19
3,784.00	4.53	54.89	3,781.63	47.74	49.61	-47.23	0.67	0.67	-0.66
3,878.00	5.32	53.13	3,875.28	52.49	56.14	-51.92	0.86	0.84	-1.87
3,972.00	4.75	53.92	3,968.92	57.39	62.77	-56.75	0.61	-0.61	0.84
4,067.00	4.75	48.82	4,063.59	62.30	68.91	-61.60	0.44	0.00	-5.37
4,161.00	5.27	43.37	4,157.23	68.00	74.80	-67.24	0.75	0.55	-5.80
4,255.00	5.19	46.80	4,250.84	74.05	80.87	-73.23	0.34	-0.09	3.65
4,350.00	4.97	47.94	4,345.47	79.75	87.05	-78.86	0.25	-0.23	1.20
4,444.00	4.75	49.44	4,439.13	85.01	93.03	-84.06	0.27	-0.23	1.60



Total Directional Services

Survey Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Beauty Queen Fed Com 604H
Project:	Lea County, NM (NAD83)	TVD Reference:	3258' GE + 30' KB @ 3288.00usft
Site:	Parade State/Beauty Queen	MD Reference:	3258' GE + 30' KB @ 3288.00usft
Well:	Beauty Queen Fed Com 604H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.15 Single User Db

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,538.00	4.26	50.05	4,532.84	89.78	98.67	-88.77	0.52	-0.52	0.65
4,633.00	3.74	53.65	4,627.61	93.88	103.87	-92.82	0.61	-0.55	3.79
4,727.00	3.43	54.01	4,721.43	97.35	108.61	-96.25	0.33	-0.33	0.38
4,821.00	4.09	50.31	4,815.22	101.14	113.47	-99.99	0.75	0.70	-3.94
4,916.00	5.23	46.54	4,909.91	106.29	119.22	-105.07	1.24	1.20	-3.97
5,010.00	5.67	45.48	5,003.48	112.49	125.64	-111.21	0.48	0.47	-1.13
5,100.00	5.10	46.71	5,093.09	118.35	131.72	-117.01	0.65	-0.63	1.37
5,197.00	4.70	44.78	5,189.73	124.13	137.66	-122.73	0.45	-0.41	-1.99
5,292.00	4.75	43.20	5,284.41	129.76	143.09	-128.30	0.15	0.05	-1.66
5,386.00	4.70	40.03	5,378.09	135.54	148.23	-134.03	0.28	-0.05	-3.37
5,481.00	4.57	41.00	5,472.78	141.38	153.22	-139.82	0.16	-0.14	1.02
5,575.00	4.35	40.56	5,566.49	146.91	157.99	-145.31	0.24	-0.23	-0.47
5,669.00	4.04	41.70	5,660.24	152.09	162.51	-150.44	0.34	-0.33	1.21
5,764.00	4.97	44.51	5,754.95	157.53	167.62	-155.82	1.01	0.98	2.96
5,859.00	5.01	44.69	5,849.59	163.41	173.43	-161.65	0.05	0.04	0.19
5,953.00	4.57	44.95	5,943.26	168.98	178.96	-167.16	0.47	-0.47	0.28
6,047.00	4.44	46.54	6,036.97	174.13	184.25	-172.26	0.19	-0.14	1.69
6,141.00	5.71	50.75	6,130.60	179.59	190.51	-177.66	1.41	1.35	4.48
6,236.00	5.89	49.79	6,225.11	185.73	197.89	-183.72	0.22	0.19	-1.01
6,330.00	5.98	49.96	6,318.61	191.99	205.32	-189.91	0.10	0.10	0.18
6,424.00	6.11	49.52	6,412.09	198.39	212.88	-196.23	0.15	0.14	-0.47
6,519.00	5.10	47.94	6,506.63	204.50	219.86	-202.27	1.08	-1.06	-1.66
6,613.00	4.48	38.27	6,600.30	210.18	225.23	-207.89	1.08	-0.66	-10.29
6,707.00	2.86	48.21	6,694.11	214.63	229.26	-212.30	1.85	-1.72	10.57
6,802.00	1.58	82.75	6,789.04	216.37	232.32	-214.01	1.89	-1.35	36.36
6,896.00	1.49	107.27	6,883.01	216.17	234.77	-213.79	0.70	-0.10	26.09
6,990.00	0.48	37.48	6,976.99	216.12	236.18	-213.72	1.49	-1.07	-74.24
7,085.00	0.57	352.75	7,071.99	216.91	236.36	-214.51	0.43	0.09	-47.08
7,179.00	0.48	10.15	7,165.98	217.76	236.37	-215.36	0.19	-0.10	18.51
7,273.00	0.57	16.21	7,259.98	218.60	236.57	-216.19	0.11	0.10	6.45
7,368.00	0.48	10.76	7,354.98	219.44	236.78	-217.03	0.11	-0.09	-5.74
7,462.00	0.44	359.95	7,448.97	220.19	236.85	-217.78	0.10	-0.04	-11.50
7,557.00	0.22	140.40	7,543.97	220.41	236.97	-218.00	0.66	-0.23	147.84
7,651.00	1.67	155.70	7,637.96	219.03	237.65	-216.61	1.55	1.54	16.28
7,745.00	1.19	131.96	7,731.93	217.12	238.94	-214.70	0.80	-0.51	-25.26
7,839.00	1.23	94.17	7,825.91	216.40	240.67	-213.95	0.83	0.04	-40.20
7,934.00	0.48	39.06	7,920.90	216.63	241.94	-214.17	1.09	-0.79	-58.01
8,028.00	0.70	19.90	8,014.89	217.48	242.38	-215.01	0.31	0.23	-20.38
8,122.00	0.70	40.65	8,108.89	218.46	242.95	-215.98	0.27	0.00	22.07
8,217.00	0.79	23.07	8,203.88	219.50	243.58	-217.02	0.26	0.09	-18.51
8,311.00	0.83	45.83	8,297.87	220.57	244.33	-218.08	0.34	0.04	24.21
8,406.00	1.01	62.18	8,392.86	221.44	245.56	-218.94	0.33	0.19	17.21
8,500.00	1.23	63.32	8,486.84	222.28	247.20	-219.76	0.24	0.23	1.21
8,594.00	0.62	19.55	8,580.83	223.21	248.27	-220.69	0.95	-0.65	-46.56



Total Directional Services

Survey Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Beauty Queen Fed Com 604H
Project:	Lea County, NM (NAD83)	TVD Reference:	3258' GE + 30' KB @ 3288.00usft
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Design:	OH	Database:	EDM 5000.15 Single User Db

Survey									
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8,688.00	0.40	254.57	8,674.83	223.60	248.12	-221.08	0.97	-0.23	-132.96
8,783.00	1.14	236.82	8,769.82	223.00	247.01	-220.49	0.81	0.78	-18.68
8,877.00	1.23	235.85	8,863.80	221.92	245.39	-219.42	0.10	0.10	-1.03
8,971.00	0.70	259.49	8,957.78	221.25	243.99	-218.77	0.69	-0.56	25.15
9,066.00	0.97	242.71	9,052.77	220.77	242.71	-218.31	0.38	0.28	-17.66
9,160.00	1.19	261.87	9,146.76	220.27	241.03	-217.82	0.45	0.23	20.38
9,255.00	1.76	255.19	9,241.73	219.76	238.65	-217.33	0.63	0.60	-7.03
9,349.00	1.36	250.00	9,335.69	219.01	236.20	-216.61	0.45	-0.43	-5.52
9,443.00	0.62	317.41	9,429.68	219.00	234.81	-216.61	1.34	-0.79	71.71
9,538.00	0.83	317.15	9,524.67	219.88	234.00	-217.50	0.22	0.22	-0.27
9,632.00	1.36	287.18	9,618.65	220.71	232.47	-218.35	0.81	0.56	-31.88
9,726.00	1.32	271.18	9,712.63	221.06	230.32	-218.72	0.40	-0.04	-17.02
9,821.00	1.23	264.24	9,807.61	220.98	228.21	-218.66	0.19	-0.09	-7.31
9,915.00	1.71	248.42	9,901.57	220.37	225.90	-218.07	0.66	0.51	-16.83
10,009.00	2.15	242.44	9,995.52	219.04	223.03	-216.77	0.51	0.47	-6.36
10,103.00	1.41	268.46	10,089.48	218.19	220.32	-215.95	1.15	-0.79	27.68
10,197.00	0.83	293.86	10,183.46	218.43	218.54	-216.21	0.80	-0.62	27.02
10,292.00	0.70	330.16	10,278.45	219.21	217.62	-217.00	0.52	-0.14	38.21
10,386.00	1.05	345.36	10,372.44	220.55	217.12	-218.34	0.44	0.37	16.17
10,480.00	0.31	306.43	10,466.43	221.53	216.69	-219.33	0.89	-0.79	-41.41
10,574.00	1.10	209.75	10,560.43	220.90	216.04	-218.70	1.25	0.84	-102.85
10,669.00	1.32	219.42	10,655.41	219.26	214.89	-217.07	0.32	0.23	10.18
10,763.00	1.10	205.88	10,749.39	217.61	213.81	-215.44	0.38	-0.23	-14.40
10,857.00	1.01	208.96	10,843.37	216.08	213.02	-213.91	0.11	-0.10	3.28
10,952.00	1.27	228.03	10,938.35	214.64	211.83	-212.48	0.48	0.27	20.07
11,046.00	1.85	235.59	11,032.32	213.09	209.80	-210.95	0.65	0.62	8.04
11,140.00	1.63	260.73	11,126.27	212.01	207.23	-209.90	0.84	-0.23	26.74
11,199.00	1.58	258.44	11,185.25	211.71	205.61	-209.62	0.14	-0.08	-3.88
11,235.00	1.41	264.33	11,221.24	211.57	204.68	-209.49	0.64	-0.47	16.36
11,260.00	2.01	204.43	11,246.23	211.14	204.19	-209.06	7.15	2.41	-239.61
KOP									
11,282.00	3.34	185.67	11,268.20	210.15	203.97	-208.08	7.15	6.03	-85.26
11,330.00	9.05	171.60	11,315.91	205.02	204.38	-202.94	12.22	11.90	-29.31
11,377.00	13.67	172.75	11,361.97	195.85	205.62	-193.76	9.84	9.83	2.45
11,424.00	16.66	178.99	11,407.33	183.60	206.44	-181.50	7.24	6.36	13.28
11,471.00	20.18	178.90	11,451.92	168.75	206.72	-166.65	7.49	7.49	-0.19
11,519.00	23.47	175.38	11,496.48	150.94	207.65	-148.83	7.37	6.85	-7.33
11,566.00	28.70	174.15	11,538.67	130.37	209.55	-128.25	11.19	11.13	-2.62
11,613.00	32.84	174.94	11,579.05	106.44	211.83	-104.29	8.85	8.81	1.68
11,660.00	37.54	176.88	11,617.45	79.43	213.73	-77.27	10.28	10.00	4.13
11,707.00	43.21	178.20	11,653.24	49.03	215.02	-46.85	12.20	12.06	2.81
11,754.00	47.74	177.67	11,686.19	15.55	216.23	-13.36	9.67	9.64	-1.13
11,802.00	50.07	176.44	11,717.74	-20.57	218.10	22.78	5.22	4.85	-2.56



Total Directional Services

Survey Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Beauty Queen Fed Com 604H
Project:	Lea County, NM (NAD83)	TVD Reference:	3258' GE + 30' KB @ 3288.00usft
Site:	Parade State/Beauty Queen	MD Reference:	3258' GE + 30' KB @ 3288.00usft
Well:	Beauty Queen Fed Com 604H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.15 Single User Db

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
11,849.00	53.58	174.94	11,746.79	-57.41	220.88	59.64	7.88	7.47	-3.19
11,896.00	58.11	175.21	11,773.17	-96.15	224.22	98.41	9.65	9.64	0.57
11,943.00	62.95	176.88	11,796.28	-136.95	227.03	139.24	10.75	10.30	3.55
11,990.00	68.35	178.02	11,815.65	-179.71	228.92	182.02	11.70	11.49	2.43
12,037.00	72.35	177.84	11,831.46	-223.94	230.52	226.26	8.52	8.51	-0.38
12,084.00	76.09	176.00	11,844.24	-269.09	232.96	271.44	8.80	7.96	-3.91
12,131.00	79.87	177.76	11,854.02	-314.98	235.45	317.35	8.84	8.04	3.74
12,166.00	83.60	177.93	11,859.05	-349.59	236.76	351.97	10.67	10.66	0.49
12,186.24	84.40	177.61	11,861.17	-369.70	237.54	372.08	4.23	3.93	-1.56
LP (Beauty Queen Fed Com 604H)									
12,220.00	85.72	177.09	11,864.08	-403.30	239.09	405.70	4.23	3.93	-1.56
LP									
12,256.00	87.14	176.53	11,866.32	-439.17	241.09	441.59	4.23	3.93	-1.55
12,349.00	87.28	176.00	11,870.84	-531.87	247.14	534.34	0.59	0.15	-0.57
12,444.00	86.31	175.56	11,876.16	-626.46	254.12	629.00	1.12	-1.02	-0.46
12,539.00	87.85	176.26	11,880.99	-721.09	260.89	723.69	1.78	1.62	0.74
12,633.00	90.48	177.67	11,882.36	-814.94	265.87	817.59	3.17	2.80	1.50
12,728.00	91.27	180.74	11,880.91	-909.91	267.18	912.56	3.34	0.83	3.23
12,823.00	89.69	179.25	11,880.12	-1,004.90	267.19	1,007.55	2.29	-1.66	-1.57
12,917.00	88.37	178.81	11,881.71	-1,098.87	268.78	1,101.53	1.48	-1.40	-0.47
13,012.00	87.19	178.90	11,885.39	-1,193.78	270.68	1,196.45	1.25	-1.24	0.09
13,107.00	88.64	179.16	11,888.85	-1,288.70	272.29	1,291.39	1.55	1.53	0.27
13,201.00	89.60	178.99	11,890.29	-1,382.67	273.80	1,385.37	1.04	1.02	-0.18
13,296.00	91.23	180.30	11,889.60	-1,477.66	274.39	1,480.36	2.20	1.72	1.38
13,391.00	90.70	180.22	11,888.00	-1,572.65	273.96	1,575.34	0.56	-0.56	-0.08
13,486.00	90.83	179.95	11,886.73	-1,667.64	273.82	1,670.32	0.32	0.14	-0.28
13,581.00	91.45	182.41	11,884.84	-1,762.59	271.87	1,765.25	2.67	0.65	2.59
13,675.00	91.27	182.50	11,882.61	-1,856.48	267.84	1,859.10	0.21	-0.19	0.10
13,770.00	90.40	182.41	11,881.23	-1,951.38	263.77	1,953.95	0.92	-0.92	-0.09
13,865.00	89.08	181.71	11,881.66	-2,046.32	260.36	2,048.85	1.57	-1.39	-0.74
13,960.00	89.52	182.06	11,882.82	-2,141.26	257.23	2,143.75	0.59	0.46	0.37
14,055.00	89.56	182.15	11,883.58	-2,236.19	253.74	2,238.64	0.10	0.04	0.09
14,149.00	91.89	180.83	11,882.39	-2,330.14	251.30	2,332.57	2.85	2.48	-1.40
14,244.00	91.54	179.95	11,879.55	-2,425.10	250.65	2,427.51	1.00	-0.37	-0.93
14,339.00	92.02	178.99	11,876.60	-2,520.04	251.53	2,522.46	1.13	0.51	-1.01
14,433.00	91.98	178.11	11,873.32	-2,613.96	253.91	2,616.39	0.94	-0.04	-0.94
14,528.00	91.85	177.49	11,870.14	-2,708.83	257.55	2,711.30	0.67	-0.14	-0.65
14,623.00	92.77	178.90	11,866.31	-2,803.71	260.54	2,806.20	1.77	0.97	1.48
14,718.00	94.04	178.55	11,860.67	-2,898.51	262.65	2,901.02	1.39	1.34	-0.37
14,812.00	93.78	179.16	11,854.26	-2,992.27	264.53	2,994.80	0.70	-0.28	0.65
14,907.00	94.00	179.43	11,847.82	-3,087.05	265.69	3,089.58	0.37	0.23	0.28
14,984.00	93.12	179.43	11,843.03	-3,163.89	266.46	3,166.43	1.14	-1.14	0.00
15,029.00	93.21	179.69	11,840.55	-3,208.82	266.80	3,211.36	0.61	0.20	0.58
15,124.00	94.17	179.51	11,834.44	-3,303.62	267.46	3,306.16	1.03	1.01	-0.19



Total Directional Services

Survey Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Beauty Queen Fed Com 604H
Project:	Lea County, NM (NAD83)	TVD Reference:	3258' GE + 30' KB @ 3288.00usft
Site:	Parade State/Beauty Queen	MD Reference:	3258' GE + 30' KB @ 3288.00usft
Well:	Beauty Queen Fed Com 604H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.15 Single User Db

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
15,218.00	91.58	180.04	11,829.72	-3,397.50	267.83	3,400.03	2.81	-2.76	0.56	
15,313.00	90.44	180.48	11,828.05	-3,492.48	267.40	3,495.01	1.29	-1.20	0.46	
15,408.00	88.46	179.34	11,828.96	-3,587.47	267.55	3,589.99	2.40	-2.08	-1.20	
15,503.00	85.56	178.46	11,833.91	-3,682.31	269.37	3,684.85	3.19	-3.05	-0.93	
15,598.00	85.08	177.49	11,841.67	-3,776.93	272.72	3,779.50	1.14	-0.51	-1.02	
15,692.00	85.69	178.81	11,849.23	-3,870.58	275.74	3,873.17	1.54	0.65	1.40	
15,787.00	85.21	177.84	11,856.77	-3,965.24	278.51	3,967.85	1.14	-0.51	-1.02	
15,882.00	85.56	179.07	11,864.41	-4,059.89	281.06	4,062.53	1.34	0.37	1.29	
15,976.00	84.64	178.37	11,872.44	-4,153.52	283.15	4,156.18	1.23	-0.98	-0.74	
16,071.00	87.45	179.16	11,878.99	-4,248.26	285.19	4,250.93	3.07	2.96	0.83	
16,166.00	88.33	180.48	11,882.49	-4,343.20	285.49	4,345.86	1.67	0.93	1.39	
16,260.00	88.15	180.30	11,885.38	-4,437.15	284.85	4,439.81	0.27	-0.19	-0.19	
16,354.00	87.67	179.95	11,888.80	-4,531.09	284.65	4,533.74	0.63	-0.51	-0.37	
16,449.00	87.71	179.69	11,892.63	-4,626.01	284.94	4,628.66	0.28	0.04	-0.27	
16,544.00	87.10	179.16	11,896.93	-4,720.91	285.90	4,723.56	0.85	-0.64	-0.56	
16,639.00	86.66	178.37	11,902.10	-4,815.74	287.94	4,818.41	0.95	-0.46	-0.83	
16,733.00	86.31	177.67	11,907.87	-4,909.51	291.18	4,912.20	0.83	-0.37	-0.74	
16,806.90	86.24	179.10	11,912.67	-4,983.22	293.26	4,985.93	1.94	-0.10	1.94	
S2/11 Crossing										
16,828.00	86.22	179.51	11,914.06	-5,004.27	293.52	5,006.99	1.94	-0.09	1.94	
16,923.00	86.00	179.25	11,920.50	-5,099.05	294.54	5,101.77	0.36	-0.23	-0.27	
17,018.00	86.92	180.04	11,926.37	-5,193.86	295.13	5,196.59	1.28	0.97	0.83	
17,113.00	87.58	179.34	11,930.93	-5,288.75	295.64	5,291.47	1.01	0.69	-0.74	
17,207.00	89.25	180.30	11,933.53	-5,382.71	295.94	5,385.43	2.05	1.78	1.02	
17,302.00	88.37	179.43	11,935.50	-5,477.69	296.16	5,480.41	1.30	-0.93	-0.92	
17,396.00	88.20	179.43	11,938.31	-5,571.64	297.10	5,574.36	0.18	-0.18	0.00	
17,491.00	89.65	179.95	11,940.09	-5,666.62	297.61	5,669.34	1.62	1.53	0.55	
17,585.00	89.32	179.87	11,940.94	-5,760.62	297.76	5,763.34	0.36	-0.35	-0.09	
17,680.00	89.03	179.95	11,942.31	-5,855.61	297.91	5,858.32	0.32	-0.31	0.08	
17,775.00	87.76	179.78	11,944.97	-5,950.57	298.13	5,953.28	1.35	-1.34	-0.18	
17,869.00	89.78	180.22	11,946.99	-6,044.54	298.13	6,047.25	2.20	2.15	0.47	
17,964.00	89.65	180.04	11,947.46	-6,139.54	297.91	6,142.24	0.23	-0.14	-0.19	
18,058.00	89.65	180.13	11,948.03	-6,233.54	297.77	6,236.23	0.10	0.00	0.10	
18,153.00	88.86	179.07	11,949.27	-6,328.53	298.44	6,331.22	1.39	-0.83	-1.12	
18,248.00	88.20	178.11	11,951.70	-6,423.46	300.77	6,426.18	1.23	-0.69	-1.01	
18,342.00	89.78	178.72	11,953.36	-6,517.41	303.37	6,520.15	1.80	1.68	0.65	
18,437.00	90.75	179.60	11,952.92	-6,612.40	304.77	6,615.14	1.38	1.02	0.93	
18,532.00	90.09	179.16	11,952.23	-6,707.39	305.79	6,710.14	0.83	-0.69	-0.46	
18,626.00	89.43	178.20	11,952.62	-6,801.36	307.96	6,804.13	1.24	-0.70	-1.02	
18,721.00	87.80	178.81	11,954.92	-6,896.30	310.44	6,899.09	1.83	-1.72	0.64	
18,815.00	87.19	178.20	11,959.02	-6,990.17	312.89	6,992.98	0.92	-0.65	-0.65	
18,910.00	86.88	177.93	11,963.94	-7,084.99	316.09	7,087.83	0.43	-0.33	-0.28	
19,005.00	83.45	175.65	11,971.94	-7,179.49	321.39	7,182.37	4.33	-3.61	-2.40	



Total Directional Services

Survey Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Beauty Queen Fed Com 604H
Project:	Lea County, NM (NAD83)	TVD Reference:	3258' GE + 30' KB @ 3288.00usft
Site:	Parade State/Beauty Queen	MD Reference:	3258' GE + 30' KB @ 3288.00usft
Well:	Beauty Queen Fed Com 604H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.15 Single User Db

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
19,099.00	88.07	177.58	11,978.89	-7,273.04	326.91	7,275.97	5.32	4.91	2.05
19,194.00	84.42	177.84	11,985.11	-7,367.74	330.70	7,370.71	3.85	-3.84	0.27
19,289.00	85.25	180.57	11,993.67	-7,462.33	332.01	7,465.31	2.99	0.87	2.87
19,383.00	87.19	181.27	11,999.86	-7,556.11	330.51	7,559.07	2.19	2.06	0.74
19,478.00	86.70	181.01	12,004.93	-7,650.96	328.62	7,653.89	0.58	-0.52	-0.27
19,573.00	86.44	180.83	12,010.61	-7,745.78	327.10	7,748.69	0.33	-0.27	-0.19
19,668.00	85.12	179.43	12,017.60	-7,840.51	326.88	7,843.42	2.02	-1.39	-1.47
19,762.00	87.45	180.39	12,023.69	-7,934.31	327.03	7,937.21	2.68	2.48	1.02
19,857.00	86.13	179.69	12,029.01	-8,029.16	326.96	8,032.06	1.57	-1.39	-0.74
19,952.00	86.31	179.25	12,035.27	-8,123.95	327.84	8,126.85	0.50	0.19	-0.46
20,046.00	86.18	179.07	12,041.43	-8,217.73	329.21	8,220.65	0.24	-0.14	-0.19
20,141.00	86.00	178.99	12,047.91	-8,312.50	330.82	8,315.42	0.21	-0.19	-0.08
20,236.00	85.17	178.11	12,055.22	-8,407.19	333.21	8,410.13	1.27	-0.87	-0.93
20,330.00	86.66	178.28	12,061.92	-8,500.90	336.17	8,503.86	1.60	1.59	0.18
20,425.00	88.99	179.87	12,065.52	-8,595.81	337.70	8,598.79	2.97	2.45	1.67
20,519.00	89.12	179.51	12,067.07	-8,689.79	338.21	8,692.77	0.41	0.14	-0.38
20,614.00	86.31	178.02	12,070.86	-8,784.68	340.25	8,787.68	3.35	-2.96	-1.57
20,708.00	85.78	177.84	12,077.34	-8,878.40	343.64	8,881.42	0.60	-0.56	-0.19
20,803.00	87.10	177.67	12,083.24	-8,973.14	347.35	8,976.20	1.40	1.39	-0.18
20,897.00	86.92	176.70	12,088.15	-9,066.90	351.96	9,070.00	1.05	-0.19	-1.03
20,992.00	87.71	180.13	12,092.60	-9,161.74	354.59	9,164.86	3.70	0.83	3.61
21,086.00	87.41	179.34	12,096.60	-9,255.65	355.02	9,258.77	0.90	-0.32	-0.84
21,181.00	86.53	178.28	12,101.62	-9,350.50	356.99	9,353.63	1.45	-0.93	-1.12
21,275.00	86.88	179.60	12,107.03	-9,444.33	358.73	9,447.47	1.45	0.37	1.40
21,370.00	87.32	179.95	12,111.83	-9,539.20	359.10	9,542.35	0.59	0.46	0.37
21,464.00	86.75	179.07	12,116.69	-9,633.07	359.90	9,636.22	1.11	-0.61	-0.94
21,559.00	85.65	181.62	12,122.99	-9,727.85	359.33	9,730.99	2.92	-1.16	2.68
21,653.00	86.35	182.24	12,129.55	-9,821.57	356.17	9,824.67	0.99	0.74	0.66
21,748.00	86.92	181.18	12,135.12	-9,916.36	353.34	9,919.43	1.27	0.60	-1.12
21,852.00	86.62	180.04	12,140.98	-10,020.19	352.24	10,023.24	1.13	-0.29	-1.10
21,910.00	86.62	180.04	12,144.40	-10,078.09	352.20	10,081.14	0.00	0.00	0.00
BHL - PBHL (Beauty Queen Fed Com 604H)									

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
11,260.00	11,246.23	211.14	204.19	KOP
12,220.00	11,864.08	-403.30	239.09	LP
16,806.90	11,912.67	-4,983.22	293.26	S2/11 Crossing
21,910.00	12,144.40	-10,078.09	352.20	BHL



Total Directional Services

Survey Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Beauty Queen Fed Com 604H
Project:	Lea County, NM (NAD83)	TVD Reference:	3258' GE + 30' KB @ 3288.00usft
Site:	Parade State/Beauty Queen	MD Reference:	3258' GE + 30' KB @ 3288.00usft
Well:	Beauty Queen Fed Com 604H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.15 Single User Db

Checked By: _____ Approved By: _____ Date: _____

District I

1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II

811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

ACKNOWLEDGMENTS

Action 40442

ACKNOWLEDGMENTS

Operator: Franklin Mountain Energy LLC 44 Cook Street Denver, CO 80206	OGRID: 373910
	Action Number: 40442
	Action Type: [C-104] Completion Packet (C-104C)

ACKNOWLEDGMENTS

☒	I hereby certify that the required Water Use Report has been, or will be, submitted for this wells completion.
☒	I hereby certify that the required FracFocus disclosure has been, or will be, submitted for this wells completion.

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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
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Santa Fe, NM 87505

CONDITIONS

Action 40442

CONDITIONS

Operator: Franklin Mountain Energy LLC 44 Cook Street Denver, CO 80206	OGRID: 373910
	Action Number: 40442
	Action Type: [C-104] Completion Packet (C-104C)

CONDITIONS

Created By	Condition	Condition Date
ksimmons	RT C-104 expires 10/08/2021; submit all drilling, casing, and completion sundries/reports.	9/8/2021