

Office
District I – (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II – (575) 748-1283
811 S. First St., Artesia, NM 88210
District III – (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV – (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM
87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
Revised July 18, 2013

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

WELL API NO. 30-025-47889
5. Indicate Type of Lease STATE ☒ FEE ☐
6. State Oil & Gas Lease No. VB-21117
7. Lease Name or Unit Agreement Name BEAUTY QUEEN FED COM
8. Well Number 604H
9. OGRID Number 373910
10. Pool name or Wildcat WC-025 G-09 S253502B; LWR BONE SPRING

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐	7. Lease Name or Unit Agreement Name BEAUTY QUEEN FED COM
2. Name of Operator FRANKLIN MOUNTAIN ENERGY, LLC	8. Well Number 604H
3. Address of Operator 44 COOK STREET, SUITE 1000, DENVER, CO 80206	9. OGRID Number 373910
4. Well Location Unit Letter <u>A</u> : <u>321</u> feet from the <u></u> north <u></u> line and <u>1320</u> feet from the <u></u> east <u></u> line Section <u>2</u> Township <u>25S</u> Range <u>35E</u> NMPM County <u>Lea</u>	10. Pool name or Wildcat WC-025 G-09 S253502B; LWR BONE SPRING
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3259	

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐
DOWNHOLE COMMINGLE ☐
CLOSED-LOOP SYSTEM ☐
OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ P AND A ☐
CASING/CEMENT JOB ☐
OTHER: Production Casing & Cement ☒

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Franklin Mountain Energy, LLC (FME), Operator of the above captioned well, respectfully submits the below drilling operations notice:

Drilled production 6.75" hole to 21,910' TD 4/16/2021. Condition hole. **RIH w/ 5.5" 23 lb/ft USS Eagle production casing, HCP-110** as follows: make up float shoe 1.95', 1 jt P-110 46.23', float collar 2.37', 1 jt P-110 46.25', land collar latch plug 1.42', 1 jt P-110 46.25', fill pipe, check floats, #1 ct sleeve 25.10', 1 jt P-110 46.22', #2 ct sleeve 25.10', followed by 60 jts P-110 2,310', A marker jt P-110 19.04' @ 18,863.92' followed by 40 jts P-110 1,830.17', B marker P-110 19.09' @ 17,014.66', followed by 104 jts P-110 4,737'. C marker joint 19.62 set near LP of curve @ 12,257' (LP 12,220'), followed by 22 joints P-110 1002.97', install air gap sub 1.90' @ 11,252.88', followed by 73 joints P-110 3,341'. install marker joint D 19.60' @ 7,587.31', followed by 66 joints P-110 MS2. **5-1/2" casing set @ 21,878.43'.**

Cemented 5.5" casing as follows: fill lines & successful pressure test to 8500 psi. Mix and pump 40 bbls of mud flush express @12.5ppg, 143 bbls of MRF D035 mixed @ 12.5 ppg, followed by 210 bbls (905 sxs) of Class H tail cement mixed @15 ppg. Displace with 20 bbls of FW w/ retarder. Total displacement volume 461 bbls. Circ pressure before landing plug 6560 psi, bump plug with 640 psi over @ 7200 psi. Bled back 10 bbls. Floats held. Full returns throughout job. Returned 30 bbl MRF to surface. Good cement.

Rigged released H&P 556 @ 24:00hrs on 4/19/2021. Final survey attached.

Spud Date: 4/1/2021 Rig Release Date: 4/19/2021

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE  TITLE Dir. Ops Planning & Regulatory DATE 7/29/2021

Type or print name Rachael Overbey E-mail address: roverbey@fmellc.com PHONE: 720-414-6878

For State Use Only

APPROVED BY: _____ TITLE _____ DATE _____

Conditions of Approval (if any):



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	



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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)
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



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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)
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: _____

Franklin Mountain Energy

Project: Lea County, NM (NAD83)
 Site: Parade State/Beauty Queen
 Well: Beauty Queen Fed Com 604H
 Wellbore: OH
 Design: OH

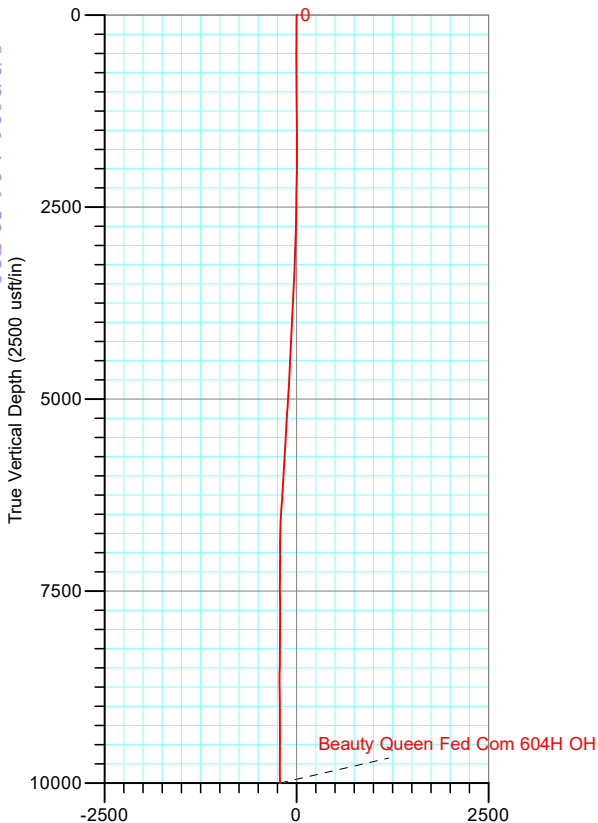
3258' GE + 30' KB @ 3288.00usft

PROJECT DETAILS: Lea County, NM (NAD83)
 Geodetic System: US State Plane 1983
 Datum: North American Datum 1983
 Ellipsoid: GRS 1980
 Zone: New Mexico Eastern Zone



Azimuths to Grid North
 True North: -0.53°
 Magnetic North: 5.93°

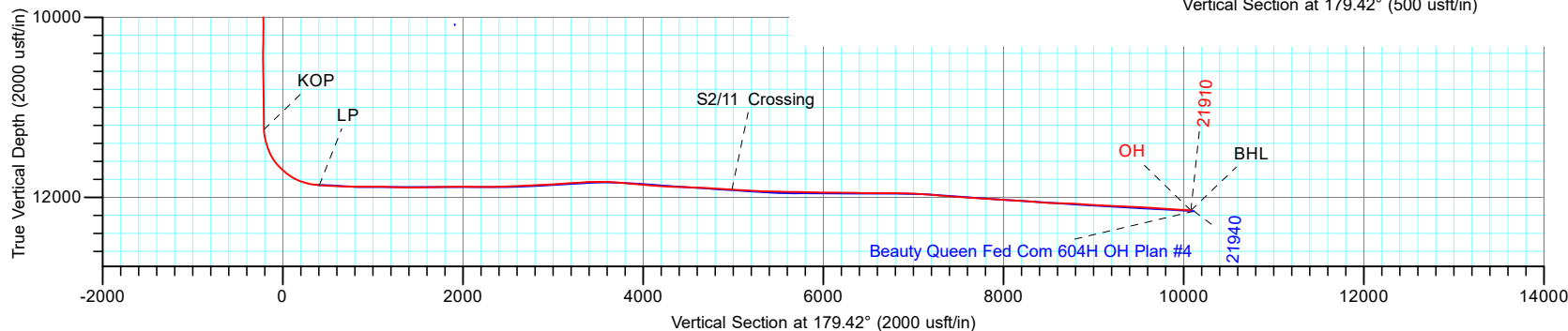
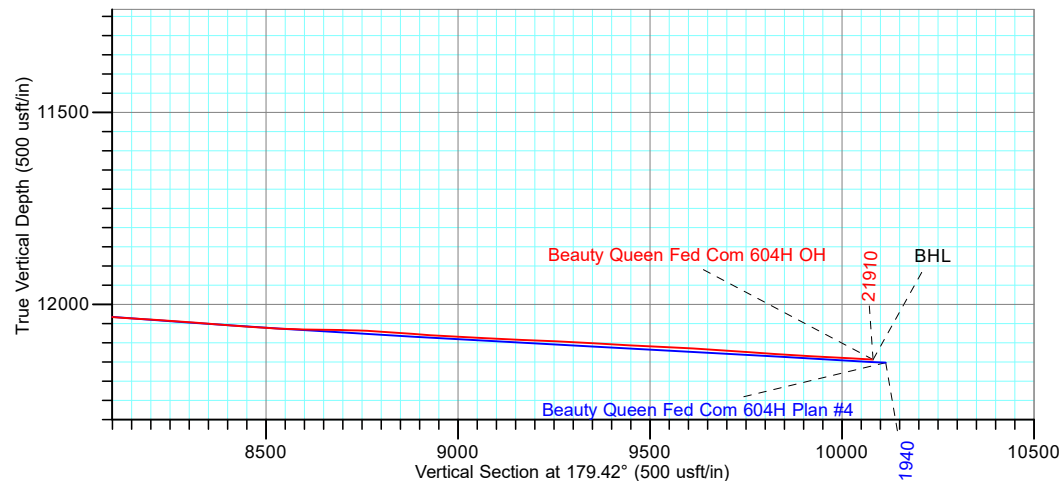
Magnetic Field
 Strength: 47512.3nT
 Dip Angle: 59.89°
 Date: 3/10/2021
 Model: IGRF2020



ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Vsect	Departure	Annotation
11260.00	2.01	204.43	11246.23	211.14	204.19	-209.06	428.05	KOP
12220.00	85.72	177.09	11864.08	-403.30	239.09	405.70	1043.67	LP
16806.90	86.24	179.10	11912.67	-4983.22	293.26	4985.93	5625.52	S2/11 Crossing
21910.00	86.62	180.04	12144.40	-10078.09	352.20	10081.14	10721.72	BHL

ACTUAL LINE CALLS
SHL: 321' FNL, 1320' FEL S2
BHL: 184' FSL, 1070' FEL S11



TOTAL DIRECTIONAL SERVICES LLC
 671 Academy Ct, Windsor, CO 80550
 Phone: (970) 460-9402

Design: OH (Beauty Queen Fed Com 604H/OH)
 Parade State/Beauty Queen
 Created By: Dustin Ault Date: 12:23, April 22 2021
 Date: _____
 Approved: _____ Date: _____

Released to Imaging: 8/2/2021 4:26:52 PM

Franklin Mountain Energy

Project: Lea County, NM (NAD83)
Site: Parade State/Beauty Queen
Well: Beauty Queen Fed Com 604H
Wellbore: OH
Design: OH



Azimuths to Grid North
True North: -0.53°
Magnetic North: 5.93°

Magnetic Field
Strength: 47512.3nT
Dip Angle: 59.89°
Date: 3/10/2021
Model: IGRF2020

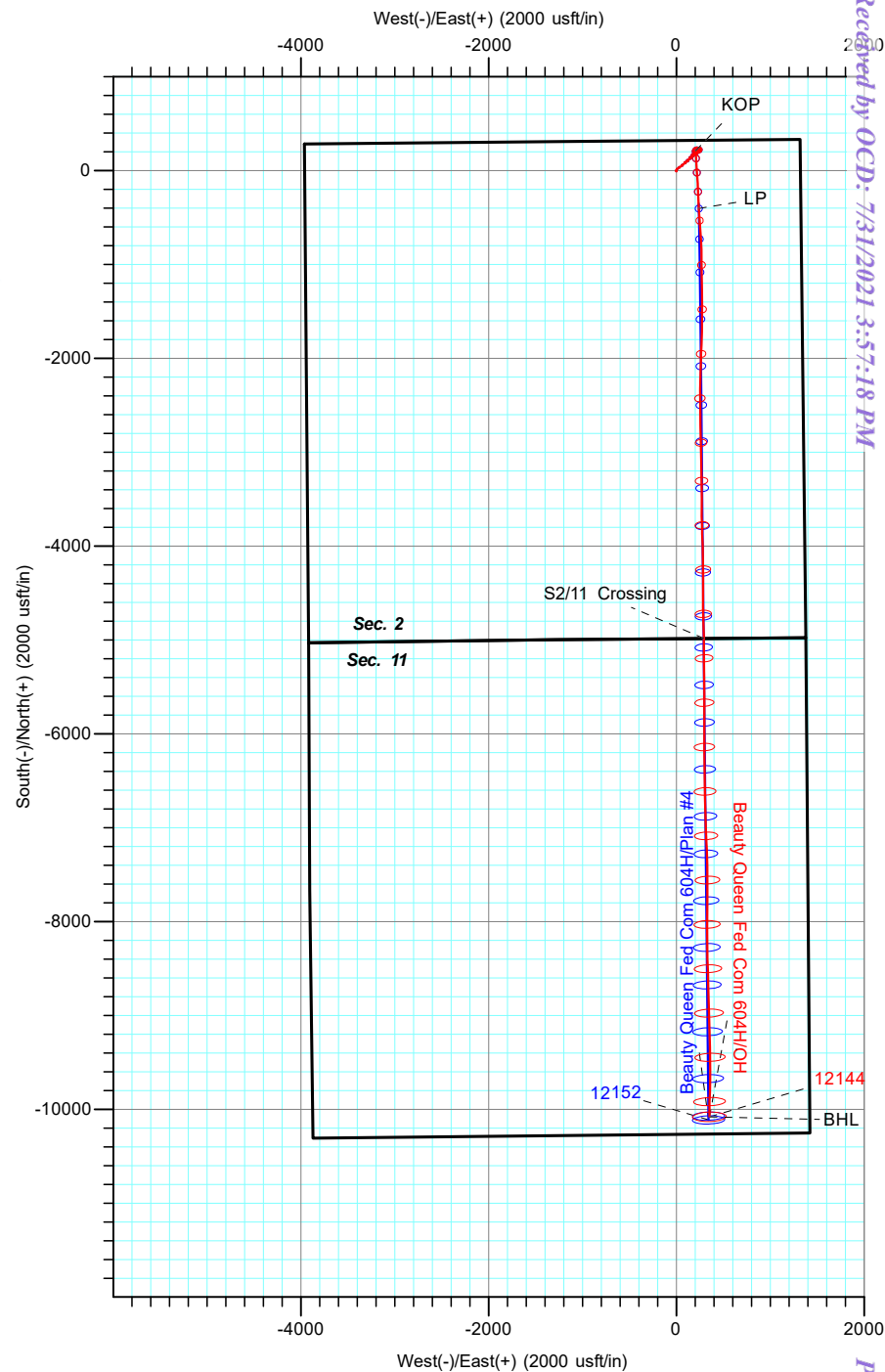
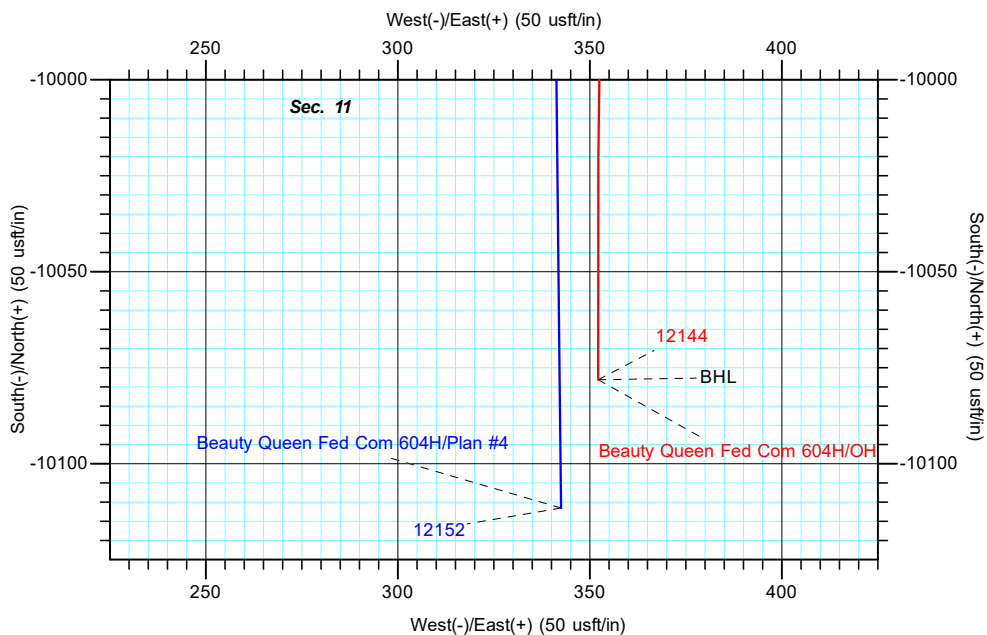
PROJECT DETAILS: Lea County, NM (NAD83)
Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone



ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Vsect	Departure	Annotation
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ACTUAL LINE CALLS
SHL: 321' FNL, 1320' FEL S2
BHL: 184' FSL, 1070' FEL S11



TOTAL DIRECTIONAL SERVICES LLC
671 Academy Ct, Windsor, CO 80550
Phone: (970) 460-9402

Design: OH (Beauty Queen Fed Com 604H/OH)
Parade State/Beauty Queen
Created By: Dustin Ault Date: 13:13, April 22 2021
Date: _____
Approved: _____ Date: _____

Received by OCD: 7/31/2021 3:57:18 PM

Page 12 of 13

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

CONDITIONS

Action 39065

CONDITIONS

Operator: Franklin Mountain Energy LLC 44 Cook Street Denver, CO 80206	OGRID: 373910
	Action Number: 39065
	Action Type: [C-103] Sub. Drilling (C-103N)

CONDITIONS

Created By	Condition	Condition Date
ksimmons	None	8/2/2021