Submit 1 Copy To Appropriate District 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

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

Form C-103
Revised July 18, 2013

WELL API NO.
30-025-52566

5. Indicate Type of Lease
STATE ☒ FEE ☐

6. State Oil & Gas Lease No.

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.)

7. Lease Name or Unit Agreement Name
TAG STATE COM

1. Type of Well: Oil Well ☒ Gas Well ☐ Other

8. Well Number 504H

2. Name of Operator FRANKLIN MOUNTAIN ENERGY 3, LLC

9. OGRID Number 331595

3. Address of Operator 44 COOK STREET, SUITE 1000, DENVER, CO 80206

10. Pool name [96585] WC-025 G-06 S203511G; BONE SPRING

4. Well Location
Unit Letter B : 266 feet from the NORTH line and 1186 feet from the EAST line
Section 2 Township 20S Range 35E NMPM County Lea

11. Elevation *(Show whether DR, RKB, RT, GR, etc.)*
3670

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

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
PERFORM REMEDIAL WORK	☐	PLUG AND ABANDON	☐	REMEDIAL WORK	☐	ALTERING CASING	☐
TEMPORARILY ABANDON	☐	CHANGE PLANS	☒	COMMENCE DRILLING OPNS.	☐	P AND A	☐
PULL OR ALTER CASING	☐	MULTIPLE COMPL	☐	CASING/CEMENT JOB	☐		
DOWNHOLE COMMINGLE	☐						
CLOSED-LOOP SYSTEM	☐						
OTHER:	☐			OTHER:			☐

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 3, LLC (FME3), Operator, respectfully requests approval to make the following changes to the APD and drilling plan for the above referenced well:
Bottom Hole Location: FME requests approval to move BHL from P-11-20S-35E, 100 FSL 980 FEL to **P-11-20S-35E, 103 FSL 1293 FEL.**
Target formation remains the same.
Surface Hole Location remains the same.
Lateral Hole Size change: from 8.75" to 7.875".
Please see attached revised C-102, directional plan, 14-point plan and geoprog.

Spud Date: Rig Release Date:

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

SIGNATURE Rachael Overbey TITLE Dir. Ops Planning & Regulatory DATE 9/30/2024

Type or print name Rachael Overbey E-mail address: roverbey@fmellc.com PHONE: 303.570.4057

For State Use Only

APPROVED BY: TITLE DATE
Conditions of Approval (if any):

C-102

Submit Electronically
Via OCD Permitting

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION

Revised July 9, 2024

Submittal Type: ☐ Initial Submittal ☒ Amended Report ☐ As Drilled

WELL LOCATION INFORMATION

API Number	Pool Code	Pool Name
30-025-52566	96585	WILDCAT G-06 S203511G; BONE SPRING

Property Code	Property Name	Well Number
335369	TAG STATE COM	504H

OGRID No.	Operator Name	Ground Level Elevation
331595	FRANKLIN MOUNTAIN ENERGY 3, LLC	3,670.1'

Surface Owner: ☒ State ☐ Fee ☐ Tribal ☐ Federal Mineral Owner: ☒ State ☐ Fee ☐ Tribal ☐ Federal

Surface Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD 83)	Longitude (NAD 83)	County
1	2	20S	35E		266 NORTH	1,186 EAST	32.608791°	-103.423221°	LEA

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD 83)	Longitude (NAD 83)	County
P	11	20S	35E		103 SOUTH	1,293 EAST	32.580769°	-103.423542°	LEA

Dedicated Acres	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidation Code
641.27	Defining	30-025-52566	N	F

Order Numbers. R-23252 Well setbacks are under Common Ownership: ☒Yes ☐No

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD 83)	Longitude (NAD 83)	County
1	2	20S	35E		46 NORTH	1,293 EAST	32.609395°	-103.423572°	LEA

First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD 83)	Longitude (NAD 83)	County
1	2	20S	35E		619 NORTH	1,295 EAST	32.607820°	-103.423571°	LEA

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD 83)	Longitude (NAD 83)	County
P	11	20S	35E		103 SOUTH	1,293 EAST	32.580769°	-103.423542°	LEA

Unitized Area or Area of Uniform Interest	Spacing Unit Type ☒Horizontal ☐ Vertical	Ground Floor Elevation:

OPERATOR CERTIFICATIONS

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.

Rachael Overbey 9/27/2024

Signature Date

Rachael Overbey

Printed Name

roverbey@fmellc.com

Email Address

SURVEYOR CERTIFICATIONS

I hereby certify that the well location shown on this plat was plotted from the field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

PAUL BUCHELE NEW MEXICO 23782 PROFESSIONAL SURVEYOR 09-25-24

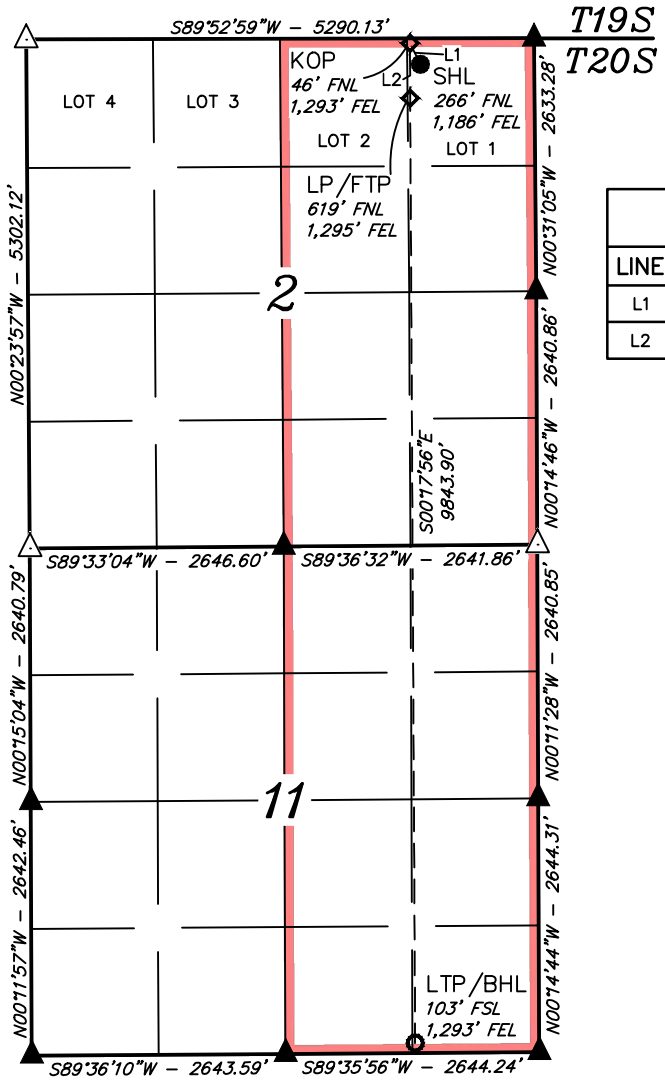
Signature and Seal of Professional Surveyor

23782 December 12, 2023

Certificate Number Date of Survey

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

Property Name	Well Number	Drawn By	Revised By
TAG STATE COM	504H	C.S.C. 12-20-23	REV. 2 Z.T. 09-25-24 (ADD KOP & LP/FTP)



LINE TABLE		
LINE	DIRECTION	LENGTH
L1	N26°25'24"W	245.14'
L2	S00°17'55"E	573.04'

NAD 83 (SURFACE HOLE LOCATION)
LATITUDE = 32°36'31.65" (32.608791°)
LONGITUDE = -103°25'23.60" (-103.423221°)
NAD 27 (SURFACE HOLE LOCATION)
LATITUDE = 32°36'31.20" (32.608667°)
LONGITUDE = -103°25'21.85" (-103.422735°)
STATE PLANE NAD 83 (N.M. EAST)
N: 586408.35' E: 821586.34'
STATE PLANE NAD 27 (N.M. EAST)
N: 586345.58' E: 780405.09'

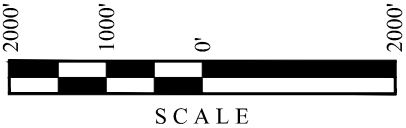
NAD 83 (KICK OFF POINT)
LATITUDE = 32°36'33.82" (32.609395°)
LONGITUDE = -103°25'24.86" (-103.423572°)
NAD 27 (KICK OFF POINT)
LATITUDE = 32°36'33.38" (32.609272°)
LONGITUDE = -103°25'23.11" (-103.423086°)
STATE PLANE NAD 83 (N.M. EAST)
N: 586627.39' E: 821476.34'
STATE PLANE NAD 27 (N.M. EAST)
N: 586564.61' E: 780295.10'

NAD 83 (LP/FTP)
LATITUDE = 32°36'28.15" (32.607820°)
LONGITUDE = -103°25'24.85" (-103.423571°)
NAD 27 (LP/FTP)
LATITUDE = 32°36'27.71" (32.607697°)
LONGITUDE = -103°25'23.10" (-103.423084°)
STATE PLANE NAD 83 (N.M. EAST)
N: 586054.46' E: 821481.75'
STATE PLANE NAD 27 (N.M. EAST)
N: 585991.70' E: 780300.49'

NAD 83 (LTP/BHL)
LATITUDE = 32°34'50.77" (32.580769°)
LONGITUDE = -103°25'24.75" (-103.423542°)
NAD 27 (LTP/BHL)
LATITUDE = 32°34'50.32" (32.580645°)
LONGITUDE = -103°25'23.01" (-103.423057°)
STATE PLANE NAD 83 (N.M. EAST)
N: 576212.53' E: 821574.72'
STATE PLANE NAD 27 (N.M. EAST)
N: 576150.00' E: 780393.12'

● = SURFACE HOLE LOCATION
◇ = KICK OFF POINT/LANDING POINT/FIRST TAKE POINT
○ = LAST TAKE POINT/ BOTTOM HOLE LOCATION
▲ = SECTION CORNER LOCATED
△ = SECTION CORNER RE-ESTABLISHED. (Not Set on Ground.)
▬ = DRILLING SPACING UNIT

NOTE:
- Distances referenced on plat to section lines are perpendicular.
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83).
- Section breakdown information for this plat may be obtained from Uintah Engineering & Land Surveying.



Sheet 2 of 2

FRANKLIN MOUNTAIN ENERGY™

Franklin Mountain Energy LLC

PV_Lea County, NM(N83-NME3001)
Tag East Pad
(02) Tag State Com 504H - Slot (01) TSC 504H

504H

Plan: APD-Rev02

Standard Planning Report

31 August, 2024

FRANKLIN MOUNTAIN ENERGY™

Planning Report

Database:	TZ USA 17.2	**Local Co-ordinate Reference:**	Well (02) Tag State Com 504H - Slot (01) TSC 504H
Company:	Franklin Mountain Energy LLC	**TVD Reference:**	3670+30 @ 3700.00usft
Project:	PV_Lea County, NM(N83-NME3001)	**MD Reference:**	3670+30 @ 3700.00usft
Site:	Tag East Pad	**North Reference:**	Grid
Well:	(02) Tag State Com 504H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	504H		
Design:	APD-Rev02		

Project PV_Lea County, NM(N83-NME3001)

Map System:	US State Plane 1983	**System Datum:**	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site Tag East Pad

Site Position:		**Northing:**	586,408.35 usft	**Latitude:**	32.60879065
From:	Map	**Easting:**	821,586.34 usft	**Longitude:**	-103.42322124
Position Uncertainty:	0.00 usft	**Slot Radius:**	13-3/16 "		

Well (02) Tag State Com 504H - Slot (01) TSC 504H

Well Position	**+N/-S**	0.00 usft	**Northing:**	586,408.35 usft	**Latitude:**	32.60879065
	+E/-W	0.00 usft	**Easting:**	821,586.34 usft	**Longitude:**	-103.42322124
Position Uncertainty		0.00 usft	**Wellhead Elevation:**	usft	**Ground Level:**	3,670.00 usft
Grid Convergence:		0.49 °				

Wellbore 504H

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	1/7/2024	6.20	60.18	47,466.42193656

Design APD-Rev02

Audit Notes:

Version:		**Phase:**	PLAN	**Tie On Depth:**	0.00

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	179.46

Plan Survey Tool Program **Date** 8/31/2024

	Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	20,452.01	APD-Rev02 (504H)	MWD+IFR1+MS	
				OWSG MWD + IFR1 + Multi-St	

FRANKLIN MOUNTAIN ENERGY™

Planning Report

Database:	TZ USA 17.2	**Local Co-ordinate Reference:**	Well (02) Tag State Com 504H - Slot (01) TSC 504H
Company:	Franklin Mountain Energy LLC	**TVD Reference:**	3670+30 @ 3700.00usft
Project:	PV_Lea County, NM(N83-NME3001)	**MD Reference:**	3670+30 @ 3700.00usft
Site:	Tag East Pad	**North Reference:**	Grid
Well:	(02) Tag State Com 504H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	504H		
Design:	APD-Rev02		

Plan Sections

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,367.41	5.51	333.33	2,366.84	15.78	-7.92	1.50	1.50	0.00	333.33	
4,459.98	5.51	333.33	4,449.74	195.37	-98.11	0.00	0.00	0.00	0.00	
5,011.09	0.00	0.00	5,000.00	219.04	-110.00	1.00	-1.00	0.00	180.00	
9,710.13	0.00	0.00	9,699.04	219.04	-110.00	0.00	0.00	0.00	0.00	
10,610.13	90.00	179.46	10,272.00	-353.89	-104.59	10.00	10.00	19.94	179.46	
20,452.01	90.00	179.46	10,272.00	-10,195.33	-11.62	0.00	0.00	0.00	0.00	02-PBHL(TGSC-504H

FRANKLIN MOUNTAIN ENERGY™

Planning Report

Database:	TZ USA 17.2	**Local Co-ordinate Reference:**	Well (02) Tag State Com 504H - Slot (01) TSC 504H
Company:	Franklin Mountain Energy LLC	**TVD Reference:**	3670+30 @ 3700.00usft
Project:	PV_Lea County, NM(N83-NME3001)	**MD Reference:**	3670+30 @ 3700.00usft
Site:	Tag East Pad	**North Reference:**	Grid
Well:	(02) Tag State Com 504H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	504H		
Design:	APD-Rev02		

Planned 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
30.00	0.00	0.00	30.00	0.00	0.00	0.00	0.00	0.00	0.00
Cenozoic Alluvium (surface)									
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,796.00	0.00	0.00	1,796.00	0.00	0.00	0.00	0.00	0.00	0.00
Rustler									
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,066.00	0.99	333.33	2,066.00	0.51	-0.26	-0.51	1.50	1.50	0.00
Salado									
2,100.00	1.50	333.33	2,099.99	1.17	-0.59	-1.18	1.50	1.50	0.00
2,200.00	3.00	333.33	2,199.91	4.68	-2.35	-4.70	1.50	1.50	0.00
2,300.00	4.50	333.33	2,299.69	10.52	-5.28	-10.57	1.50	1.50	0.00
2,367.41	5.51	333.33	2,366.84	15.78	-7.92	-15.85	1.50	1.50	0.00
2,400.00	5.51	333.33	2,399.28	18.58	-9.33	-18.66	0.00	0.00	0.00
2,500.00	5.51	333.33	2,498.82	27.16	-13.64	-27.29	0.00	0.00	0.00
2,600.00	5.51	333.33	2,598.36	35.74	-17.95	-35.91	0.00	0.00	0.00
2,700.00	5.51	333.33	2,697.90	44.32	-22.26	-44.53	0.00	0.00	0.00
2,800.00	5.51	333.33	2,797.43	52.91	-26.57	-53.15	0.00	0.00	0.00
2,900.00	5.51	333.33	2,896.97	61.49	-30.88	-61.78	0.00	0.00	0.00
3,000.00	5.51	333.33	2,996.51	70.07	-35.19	-70.40	0.00	0.00	0.00
3,100.00	5.51	333.33	3,096.05	78.65	-39.50	-79.02	0.00	0.00	0.00
3,133.11	5.51	333.33	3,129.00	81.49	-40.93	-81.88	0.00	0.00	0.00
Base Salt									
3,200.00	5.51	333.33	3,195.59	87.24	-43.81	-87.64	0.00	0.00	0.00
3,300.00	5.51	333.33	3,295.12	95.82	-48.12	-96.27	0.00	0.00	0.00
3,400.00	5.51	333.33	3,394.66	104.40	-52.43	-104.89	0.00	0.00	0.00
3,494.78	5.51	333.33	3,489.00	112.53	-56.51	-113.06	0.00	0.00	0.00
Yates									
3,500.00	5.51	333.33	3,494.20	112.98	-56.74	-113.51	0.00	0.00	0.00
3,600.00	5.51	333.33	3,593.74	121.57	-61.05	-122.14	0.00	0.00	0.00
3,700.00	5.51	333.33	3,693.27	130.15	-65.36	-130.76	0.00	0.00	0.00
3,800.00	5.51	333.33	3,792.81	138.73	-69.67	-139.38	0.00	0.00	0.00
3,900.00	5.51	333.33	3,892.35	147.31	-73.98	-148.00	0.00	0.00	0.00
3,985.04	5.51	333.33	3,977.00	154.61	-77.64	-155.34	0.00	0.00	0.00

FRANKLIN MOUNTAIN ENERGY™

Planning Report

Database:	TZ USA 17.2	**Local Co-ordinate Reference:**	Well (02) Tag State Com 504H - Slot (01) TSC 504H
Company:	Franklin Mountain Energy LLC	**TVD Reference:**	3670+30 @ 3700.00usft
Project:	PV_Lea County, NM(N83-NME3001)	**MD Reference:**	3670+30 @ 3700.00usft
Site:	Tag East Pad	**North Reference:**	Grid
Well:	(02) Tag State Com 504H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	504H		
Design:	APD-Rev02		

Planned 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)
Seven Rivers									
4,000.00	5.51	333.33	3,991.89	155.90	-78.29	-156.63	0.00	0.00	0.00
4,100.00	5.51	333.33	4,091.43	164.48	-82.60	-165.25	0.00	0.00	0.00
4,200.00	5.51	333.33	4,190.96	173.06	-86.91	-173.87	0.00	0.00	0.00
4,300.00	5.51	333.33	4,290.50	181.64	-91.22	-182.49	0.00	0.00	0.00
4,400.00	5.51	333.33	4,390.04	190.22	-95.53	-191.12	0.00	0.00	0.00
4,459.98	5.51	333.33	4,449.74	195.37	-98.11	-196.29	0.00	0.00	0.00
4,500.00	5.11	333.33	4,489.59	198.68	-99.78	-199.61	1.00	-1.00	0.00
4,600.00	4.11	333.33	4,589.26	205.87	-103.38	-206.83	1.00	-1.00	0.00
4,653.86	3.57	333.33	4,643.00	209.09	-105.00	-210.07	1.00	-1.00	0.00
Queen									
4,700.00	3.11	333.33	4,689.06	211.49	-106.21	-212.49	1.00	-1.00	0.00
4,800.00	2.11	333.33	4,788.96	215.57	-108.26	-216.58	1.00	-1.00	0.00
4,900.00	1.11	333.33	4,888.92	218.08	-109.52	-219.10	1.00	-1.00	0.00
5,000.00	0.11	333.33	4,988.91	219.03	-110.00	-220.06	1.00	-1.00	0.00
5,011.09	0.00	0.00	5,000.00	219.04	-110.00	-220.07	1.00	-1.00	0.00
5,100.00	0.00	0.00	5,088.91	219.04	-110.00	-220.07	0.00	0.00	0.00
5,200.00	0.00	0.00	5,188.91	219.04	-110.00	-220.07	0.00	0.00	0.00
5,300.00	0.00	0.00	5,288.91	219.04	-110.00	-220.07	0.00	0.00	0.00
5,400.00	0.00	0.00	5,388.91	219.04	-110.00	-220.07	0.00	0.00	0.00
5,500.00	0.00	0.00	5,488.91	219.04	-110.00	-220.07	0.00	0.00	0.00
5,600.00	0.00	0.00	5,588.91	219.04	-110.00	-220.07	0.00	0.00	0.00
5,700.00	0.00	0.00	5,688.91	219.04	-110.00	-220.07	0.00	0.00	0.00
5,800.00	0.00	0.00	5,788.91	219.04	-110.00	-220.07	0.00	0.00	0.00
5,900.00	0.00	0.00	5,888.91	219.04	-110.00	-220.07	0.00	0.00	0.00
6,000.00	0.00	0.00	5,988.91	219.04	-110.00	-220.07	0.00	0.00	0.00
6,069.09	0.00	0.00	6,058.00	219.04	-110.00	-220.07	0.00	0.00	0.00
Delaware Mtn Group									
6,100.00	0.00	0.00	6,088.91	219.04	-110.00	-220.07	0.00	0.00	0.00
6,200.00	0.00	0.00	6,188.91	219.04	-110.00	-220.07	0.00	0.00	0.00
6,300.00	0.00	0.00	6,288.91	219.04	-110.00	-220.07	0.00	0.00	0.00
6,400.00	0.00	0.00	6,388.91	219.04	-110.00	-220.07	0.00	0.00	0.00
6,500.00	0.00	0.00	6,488.91	219.04	-110.00	-220.07	0.00	0.00	0.00
6,600.00	0.00	0.00	6,588.91	219.04	-110.00	-220.07	0.00	0.00	0.00
6,700.00	0.00	0.00	6,688.91	219.04	-110.00	-220.07	0.00	0.00	0.00
6,800.00	0.00	0.00	6,788.91	219.04	-110.00	-220.07	0.00	0.00	0.00
6,900.00	0.00	0.00	6,888.91	219.04	-110.00	-220.07	0.00	0.00	0.00
7,000.00	0.00	0.00	6,988.91	219.04	-110.00	-220.07	0.00	0.00	0.00
7,100.00	0.00	0.00	7,088.91	219.04	-110.00	-220.07	0.00	0.00	0.00
7,200.00	0.00	0.00	7,188.91	219.04	-110.00	-220.07	0.00	0.00	0.00
7,300.00	0.00	0.00	7,288.91	219.04	-110.00	-220.07	0.00	0.00	0.00
7,400.00	0.00	0.00	7,388.91	219.04	-110.00	-220.07	0.00	0.00	0.00
7,500.00	0.00	0.00	7,488.91	219.04	-110.00	-220.07	0.00	0.00	0.00
7,600.00	0.00	0.00	7,588.91	219.04	-110.00	-220.07	0.00	0.00	0.00
7,700.00	0.00	0.00	7,688.91	219.04	-110.00	-220.07	0.00	0.00	0.00
7,800.00	0.00	0.00	7,788.91	219.04	-110.00	-220.07	0.00	0.00	0.00
7,893.09	0.00	0.00	7,882.00	219.04	-110.00	-220.07	0.00	0.00	0.00
Bone Spring Lime									
7,900.00	0.00	0.00	7,888.91	219.04	-110.00	-220.07	0.00	0.00	0.00
8,000.00	0.00	0.00	7,988.91	219.04	-110.00	-220.07	0.00	0.00	0.00
8,100.00	0.00	0.00	8,088.91	219.04	-110.00	-220.07	0.00	0.00	0.00
8,200.00	0.00	0.00	8,188.91	219.04	-110.00	-220.07	0.00	0.00	0.00

FRANKLIN MOUNTAIN ENERGY™

Planning Report

Database:	TZ USA 17.2	**Local Co-ordinate Reference:**	Well (02) Tag State Com 504H - Slot (01) TSC 504H
Company:	Franklin Mountain Energy LLC	**TVD Reference:**	3670+30 @ 3700.00usft
Project:	PV_Lea County, NM(N83-NME3001)	**MD Reference:**	3670+30 @ 3700.00usft
Site:	Tag East Pad	**North Reference:**	Grid
Well:	(02) Tag State Com 504H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	504H		
Design:	APD-Rev02		

Planned 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)
8,300.00	0.00	0.00	8,288.91	219.04	-110.00	-220.07	0.00	0.00	0.00
8,400.00	0.00	0.00	8,388.91	219.04	-110.00	-220.07	0.00	0.00	0.00
8,500.00	0.00	0.00	8,488.91	219.04	-110.00	-220.07	0.00	0.00	0.00
8,600.00	0.00	0.00	8,588.91	219.04	-110.00	-220.07	0.00	0.00	0.00
8,700.00	0.00	0.00	8,688.91	219.04	-110.00	-220.07	0.00	0.00	0.00
8,800.00	0.00	0.00	8,788.91	219.04	-110.00	-220.07	0.00	0.00	0.00
8,900.00	0.00	0.00	8,888.91	219.04	-110.00	-220.07	0.00	0.00	0.00
9,000.00	0.00	0.00	8,988.91	219.04	-110.00	-220.07	0.00	0.00	0.00
9,100.00	0.00	0.00	9,088.91	219.04	-110.00	-220.07	0.00	0.00	0.00
9,200.00	0.00	0.00	9,188.91	219.04	-110.00	-220.07	0.00	0.00	0.00
9,300.00	0.00	0.00	9,288.91	219.04	-110.00	-220.07	0.00	0.00	0.00
9,310.09	0.00	0.00	9,299.00	219.04	-110.00	-220.07	0.00	0.00	0.00
First Bone Spring Sand									
9,400.00	0.00	0.00	9,388.91	219.04	-110.00	-220.07	0.00	0.00	0.00
9,500.00	0.00	0.00	9,488.91	219.04	-110.00	-220.07	0.00	0.00	0.00
9,559.09	0.00	0.00	9,548.00	219.04	-110.00	-220.07	0.00	0.00	0.00
Second Bone Spring Carbonate									
9,600.00	0.00	0.00	9,588.91	219.04	-110.00	-220.07	0.00	0.00	0.00
9,700.00	0.00	0.00	9,688.91	219.04	-110.00	-220.07	0.00	0.00	0.00
9,710.13	0.00	0.00	9,699.04	219.04	-110.00	-220.07	0.00	0.00	0.00
KOP: 9710.13' MD/ -220.07' VS/9699.04' TVD									
9,750.00	3.99	179.46	9,738.88	217.65	-109.99	-218.68	10.00	10.00	0.00
9,800.00	8.99	179.46	9,788.54	212.01	-109.93	-213.03	10.00	10.00	0.00
9,850.00	13.99	179.46	9,837.53	202.05	-109.84	-203.08	10.00	10.00	0.00
9,887.93	17.78	179.46	9,874.00	191.67	-109.74	-192.70	10.00	10.00	0.00
Second Bone Spring Sand									
9,900.00	18.99	179.46	9,885.46	187.87	-109.71	-188.89	10.00	10.00	0.00
9,950.00	23.99	179.46	9,931.97	169.56	-109.53	-170.58	10.00	10.00	0.00
9,960.58	25.05	179.46	9,941.59	165.17	-109.49	-166.19	10.00	10.00	0.00
100FLL: 9960.58' MD/ -166.19' VS/9941.59' TVD									
10,000.00	28.99	179.46	9,976.70	147.27	-109.32	-148.29	10.00	10.00	0.00
10,050.00	33.99	179.46	10,019.33	121.16	-109.08	-122.18	10.00	10.00	0.00
10,100.00	38.99	179.46	10,059.51	91.44	-108.79	-92.46	10.00	10.00	0.00
10,150.00	43.99	179.46	10,096.96	58.33	-108.48	-59.35	10.00	10.00	0.00
10,190.80	48.07	179.46	10,125.28	28.97	-108.20	-29.99	10.00	10.00	0.00
01-T98(TGSC-504H)									
10,200.00	48.99	179.46	10,131.37	22.08	-108.14	-23.10	10.00	10.00	0.00
10,250.00	53.99	179.46	10,162.50	-17.03	-107.77	16.01	10.00	10.00	0.00
10,300.00	58.99	179.46	10,190.09	-58.70	-107.38	57.69	10.00	10.00	0.00
10,309.66	59.95	179.46	10,195.00	-67.02	-107.30	66.00	10.00	10.00	0.00
HZ Target									
10,350.00	63.99	179.46	10,213.95	-102.62	-106.96	101.61	10.00	10.00	0.00
10,400.00	68.99	179.46	10,233.90	-148.45	-106.53	147.44	10.00	10.00	0.00
10,450.00	73.99	179.46	10,249.77	-195.85	-106.08	194.84	10.00	10.00	0.00
10,500.00	78.99	179.46	10,261.45	-244.45	-105.62	243.44	10.00	10.00	0.00
10,550.00	83.99	179.46	10,268.85	-293.88	-105.15	292.87	10.00	10.00	0.00
10,600.00	88.99	179.46	10,271.91	-343.76	-104.68	342.76	10.00	10.00	0.00
10,610.13	90.00	179.46	10,272.00	-353.89	-104.59	352.89	10.00	10.00	0.00
EOC: 10610.13' MD/ 352.89' VS/10272.00' TVD									
10,700.00	90.00	179.46	10,272.00	-443.76	-103.74	442.76	0.00	0.00	0.00
10,800.00	90.00	179.46	10,272.00	-543.76	-102.79	542.76	0.00	0.00	0.00
10,900.00	90.00	179.46	10,272.00	-643.75	-101.85	642.76	0.00	0.00	0.00

FRANKLIN MOUNTAIN ENERGY™

Planning Report

Database:	TZ USA 17.2	**Local Co-ordinate Reference:**	Well (02) Tag State Com 504H - Slot (01) TSC 504H
Company:	Franklin Mountain Energy LLC	**TVD Reference:**	3670+30 @ 3700.00usft
Project:	PV_Lea County, NM(N83-NME3001)	**MD Reference:**	3670+30 @ 3700.00usft
Site:	Tag East Pad	**North Reference:**	Grid
Well:	(02) Tag State Com 504H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	504H		
Design:	APD-Rev02		

Planned 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)
11,000.00	90.00	179.46	10,272.00	-743.75	-100.91	742.76	0.00	0.00	0.00
11,100.00	90.00	179.46	10,272.00	-843.74	-99.96	842.76	0.00	0.00	0.00
11,200.00	90.00	179.46	10,272.00	-943.74	-99.02	942.76	0.00	0.00	0.00
11,300.00	90.00	179.46	10,272.00	-1,043.73	-98.07	1,042.76	0.00	0.00	0.00
11,400.00	90.00	179.46	10,272.00	-1,143.73	-97.13	1,142.76	0.00	0.00	0.00
11,500.00	90.00	179.46	10,272.00	-1,243.72	-96.18	1,242.76	0.00	0.00	0.00
11,600.00	90.00	179.46	10,272.00	-1,343.72	-95.24	1,342.76	0.00	0.00	0.00
11,700.00	90.00	179.46	10,272.00	-1,443.72	-94.29	1,442.76	0.00	0.00	0.00
11,800.00	90.00	179.46	10,272.00	-1,543.71	-93.35	1,542.76	0.00	0.00	0.00
11,900.00	90.00	179.46	10,272.00	-1,643.71	-92.40	1,642.76	0.00	0.00	0.00
12,000.00	90.00	179.46	10,272.00	-1,743.70	-91.46	1,742.76	0.00	0.00	0.00
12,100.00	90.00	179.46	10,272.00	-1,843.70	-90.51	1,842.76	0.00	0.00	0.00
12,200.00	90.00	179.46	10,272.00	-1,943.69	-89.57	1,942.76	0.00	0.00	0.00
12,300.00	90.00	179.46	10,272.00	-2,043.69	-88.63	2,042.76	0.00	0.00	0.00
12,400.00	90.00	179.46	10,272.00	-2,143.68	-87.68	2,142.76	0.00	0.00	0.00
12,500.00	90.00	179.46	10,272.00	-2,243.68	-86.74	2,242.76	0.00	0.00	0.00
12,600.00	90.00	179.46	10,272.00	-2,343.67	-85.79	2,342.76	0.00	0.00	0.00
12,700.00	90.00	179.46	10,272.00	-2,443.67	-84.85	2,442.76	0.00	0.00	0.00
12,800.00	90.00	179.46	10,272.00	-2,543.67	-83.90	2,542.76	0.00	0.00	0.00
12,900.00	90.00	179.46	10,272.00	-2,643.66	-82.96	2,642.76	0.00	0.00	0.00
13,000.00	90.00	179.46	10,272.00	-2,743.66	-82.01	2,742.76	0.00	0.00	0.00
13,100.00	90.00	179.46	10,272.00	-2,843.65	-81.07	2,842.76	0.00	0.00	0.00
13,200.00	90.00	179.46	10,272.00	-2,943.65	-80.12	2,942.76	0.00	0.00	0.00
13,300.00	90.00	179.46	10,272.00	-3,043.64	-79.18	3,042.76	0.00	0.00	0.00
13,400.00	90.00	179.46	10,272.00	-3,143.64	-78.23	3,142.76	0.00	0.00	0.00
13,500.00	90.00	179.46	10,272.00	-3,243.63	-77.29	3,242.76	0.00	0.00	0.00
13,600.00	90.00	179.46	10,272.00	-3,343.63	-76.35	3,342.76	0.00	0.00	0.00
13,700.00	90.00	179.46	10,272.00	-3,443.63	-75.40	3,442.76	0.00	0.00	0.00
13,800.00	90.00	179.46	10,272.00	-3,543.62	-74.46	3,542.76	0.00	0.00	0.00
13,900.00	90.00	179.46	10,272.00	-3,643.62	-73.51	3,642.76	0.00	0.00	0.00
14,000.00	90.00	179.46	10,272.00	-3,743.61	-72.57	3,742.76	0.00	0.00	0.00
14,100.00	90.00	179.46	10,272.00	-3,843.61	-71.62	3,842.76	0.00	0.00	0.00
14,200.00	90.00	179.46	10,272.00	-3,943.60	-70.68	3,942.76	0.00	0.00	0.00
14,300.00	90.00	179.46	10,272.00	-4,043.60	-69.73	4,042.76	0.00	0.00	0.00
14,400.00	90.00	179.46	10,272.00	-4,143.59	-68.79	4,142.76	0.00	0.00	0.00
14,500.00	90.00	179.46	10,272.00	-4,243.59	-67.84	4,242.76	0.00	0.00	0.00
14,600.00	90.00	179.46	10,272.00	-4,343.59	-66.90	4,342.76	0.00	0.00	0.00
14,700.00	90.00	179.46	10,272.00	-4,443.58	-65.95	4,442.76	0.00	0.00	0.00
14,800.00	90.00	179.46	10,272.00	-4,543.58	-65.01	4,542.76	0.00	0.00	0.00
14,900.00	90.00	179.46	10,272.00	-4,643.57	-64.07	4,642.76	0.00	0.00	0.00
15,000.00	90.00	179.46	10,272.00	-4,743.57	-63.12	4,742.76	0.00	0.00	0.00
15,100.00	90.00	179.46	10,272.00	-4,843.56	-62.18	4,842.76	0.00	0.00	0.00
15,200.00	90.00	179.46	10,272.00	-4,943.56	-61.23	4,942.76	0.00	0.00	0.00
15,300.00	90.00	179.46	10,272.00	-5,043.55	-60.29	5,042.76	0.00	0.00	0.00
15,400.00	90.00	179.46	10,272.00	-5,143.55	-59.34	5,142.76	0.00	0.00	0.00
15,500.00	90.00	179.46	10,272.00	-5,243.55	-58.40	5,242.76	0.00	0.00	0.00
15,600.00	90.00	179.46	10,272.00	-5,343.54	-57.45	5,342.76	0.00	0.00	0.00
15,700.00	90.00	179.46	10,272.00	-5,443.54	-56.51	5,442.76	0.00	0.00	0.00
15,800.00	90.00	179.46	10,272.00	-5,543.53	-55.56	5,542.76	0.00	0.00	0.00
15,900.00	90.00	179.46	10,272.00	-5,643.53	-54.62	5,642.76	0.00	0.00	0.00
16,000.00	90.00	179.46	10,272.00	-5,743.52	-53.68	5,742.76	0.00	0.00	0.00
16,100.00	90.00	179.46	10,272.00	-5,843.52	-52.73	5,842.76	0.00	0.00	0.00
16,200.00	90.00	179.46	10,272.00	-5,943.51	-51.79	5,942.76	0.00	0.00	0.00

FRANKLIN MOUNTAIN ENERGY™

Planning Report

Database:	TZ USA 17.2	**Local Co-ordinate Reference:**	Well (02) Tag State Com 504H - Slot (01) TSC 504H
Company:	Franklin Mountain Energy LLC	**TVD Reference:**	3670+30 @ 3700.00usft
Project:	PV_Lea County, NM(N83-NME3001)	**MD Reference:**	3670+30 @ 3700.00usft
Site:	Tag East Pad	**North Reference:**	Grid
Well:	(02) Tag State Com 504H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	504H		
Design:	APD-Rev02		

Planned 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)
16,300.00	90.00	179.46	10,272.00	-6,043.51	-50.84	6,042.76	0.00	0.00	0.00
16,400.00	90.00	179.46	10,272.00	-6,143.51	-49.90	6,142.76	0.00	0.00	0.00
16,500.00	90.00	179.46	10,272.00	-6,243.50	-48.95	6,242.76	0.00	0.00	0.00
16,600.00	90.00	179.46	10,272.00	-6,343.50	-48.01	6,342.76	0.00	0.00	0.00
16,700.00	90.00	179.46	10,272.00	-6,443.49	-47.06	6,442.76	0.00	0.00	0.00
16,800.00	90.00	179.46	10,272.00	-6,543.49	-46.12	6,542.76	0.00	0.00	0.00
16,900.00	90.00	179.46	10,272.00	-6,643.48	-45.17	6,642.76	0.00	0.00	0.00
17,000.00	90.00	179.46	10,272.00	-6,743.48	-44.23	6,742.76	0.00	0.00	0.00
17,100.00	90.00	179.46	10,272.00	-6,843.47	-43.28	6,842.76	0.00	0.00	0.00
17,200.00	90.00	179.46	10,272.00	-6,943.47	-42.34	6,942.76	0.00	0.00	0.00
17,300.00	90.00	179.46	10,272.00	-7,043.47	-41.40	7,042.76	0.00	0.00	0.00
17,400.00	90.00	179.46	10,272.00	-7,143.46	-40.45	7,142.76	0.00	0.00	0.00
17,500.00	90.00	179.46	10,272.00	-7,243.46	-39.51	7,242.76	0.00	0.00	0.00
17,600.00	90.00	179.46	10,272.00	-7,343.45	-38.56	7,342.76	0.00	0.00	0.00
17,700.00	90.00	179.46	10,272.00	-7,443.45	-37.62	7,442.76	0.00	0.00	0.00
17,800.00	90.00	179.46	10,272.00	-7,543.44	-36.67	7,542.76	0.00	0.00	0.00
17,900.00	90.00	179.46	10,272.00	-7,643.44	-35.73	7,642.76	0.00	0.00	0.00
18,000.00	90.00	179.46	10,272.00	-7,743.43	-34.78	7,742.76	0.00	0.00	0.00
18,100.00	90.00	179.46	10,272.00	-7,843.43	-33.84	7,842.76	0.00	0.00	0.00
18,200.00	90.00	179.46	10,272.00	-7,943.43	-32.89	7,942.76	0.00	0.00	0.00
18,300.00	90.00	179.46	10,272.00	-8,043.42	-31.95	8,042.76	0.00	0.00	0.00
18,400.00	90.00	179.46	10,272.00	-8,143.42	-31.00	8,142.76	0.00	0.00	0.00
18,500.00	90.00	179.46	10,272.00	-8,243.41	-30.06	8,242.76	0.00	0.00	0.00
18,600.00	90.00	179.46	10,272.00	-8,343.41	-29.12	8,342.76	0.00	0.00	0.00
18,700.00	90.00	179.46	10,272.00	-8,443.40	-28.17	8,442.76	0.00	0.00	0.00
18,800.00	90.00	179.46	10,272.00	-8,543.40	-27.23	8,542.76	0.00	0.00	0.00
18,900.00	90.00	179.46	10,272.00	-8,643.39	-26.28	8,642.76	0.00	0.00	0.00
19,000.00	90.00	179.46	10,272.00	-8,743.39	-25.34	8,742.76	0.00	0.00	0.00
19,100.00	90.00	179.46	10,272.00	-8,843.39	-24.39	8,842.76	0.00	0.00	0.00
19,200.00	90.00	179.46	10,272.00	-8,943.38	-23.45	8,942.76	0.00	0.00	0.00
19,300.00	90.00	179.46	10,272.00	-9,043.38	-22.50	9,042.76	0.00	0.00	0.00
19,400.00	90.00	179.46	10,272.00	-9,143.37	-21.56	9,142.76	0.00	0.00	0.00
19,500.00	90.00	179.46	10,272.00	-9,243.37	-20.61	9,242.76	0.00	0.00	0.00
19,600.00	90.00	179.46	10,272.00	-9,343.36	-19.67	9,342.76	0.00	0.00	0.00
19,700.00	90.00	179.46	10,272.00	-9,443.36	-18.72	9,442.76	0.00	0.00	0.00
19,800.00	90.00	179.46	10,272.00	-9,543.35	-17.78	9,542.76	0.00	0.00	0.00
19,900.00	90.00	179.46	10,272.00	-9,643.35	-16.84	9,642.76	0.00	0.00	0.00
20,000.00	90.00	179.46	10,272.00	-9,743.35	-15.89	9,742.76	0.00	0.00	0.00
20,100.00	90.00	179.46	10,272.00	-9,843.34	-14.95	9,842.76	0.00	0.00	0.00
20,200.00	90.00	179.46	10,272.00	-9,943.34	-14.00	9,942.76	0.00	0.00	0.00
20,300.00	90.00	179.46	10,272.00	-10,043.33	-13.06	10,042.76	0.00	0.00	0.00
20,400.00	90.00	179.46	10,272.00	-10,143.33	-12.11	10,142.76	0.00	0.00	0.00
20,452.01	90.00	179.46	10,272.00	-10,195.33	-11.62	10,194.77	0.00	0.00	0.00

TD: 20452.01' MD/ 10194.77' VS/10272.00' TVD - 02-PBHL(TGSC-504H)

FRANKLIN MOUNTAIN ENERGY™

Planning Report

Database:	TZ USA 17.2	**Local Co-ordinate Reference:**	Well (02) Tag State Com 504H - Slot (01) TSC 504H
Company:	Franklin Mountain Energy LLC	**TVD Reference:**	3670+30 @ 3700.00usft
Project:	PV_Lea County, NM(N83-NME3001)	**MD Reference:**	3670+30 @ 3700.00usft
Site:	Tag East Pad	**North Reference:**	Grid
Well:	(02) Tag State Com 504H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	504H		
Design:	APD-Rev02		

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
02-PBHL(TGSC-504H) - plan hits target center - Point	0.00	0.00	10,272.00	-10,195.33	-11.62	576,213.02	821,574.72	32.58077010	-103.42354218
01-T98(TGSC-504H) - plan misses target center by 202.31usft at 10190.80usft MD (10125.28 TVD, 28.97 N, -108.20 E) - Point	0.00	0.00	10,272.00	168.27	-109.44	586,576.62	821,476.90	32.60925568	-103.42357194

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
30.00	30.00	Cenozoic Alluvium (surface)			
1,796.00	1,796.00	Rustler			
2,066.00	2,066.00	Salado			
3,133.11	3,129.00	Base Salt			
3,494.78	3,489.00	Yates			
3,985.04	3,977.00	Seven Rivers			
4,653.86	4,643.00	Queen			
6,069.09	6,058.00	Delaware Mtn Group			
7,893.09	7,882.00	Bone Spring Lime			
9,310.09	9,299.00	First Bone Spring Sand			
9,559.09	9,548.00	Second Bone Spring Carbonate			
9,887.93	9,874.00	Second Bone Spring Sand			
10,309.66	10,195.00	HZ Target			

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
9,710.13	9,699.04	219.04	-110.00	KOP: 9710.13' MD/ -220.07' VS/9699.04' TVD
9,960.58	9,941.59	165.17	-109.49	100FLL: 9960.58' MD/ -166.19' VS/9941.59' TVD
10,610.13	10,272.00	-353.89	-104.59	EOC: 10610.13' MD/ 352.89' VS/10272.00' TVD
20,452.01	10,272.00	-10,195.33	-11.62	TD: 20452.01' MD/ 10194.77' VS/10272.00' TVD

FRANKLIN MOUNTAIN ENERGY

Tag State Com 504H

1. **Geologic name of surface location:** Permian
2. **Estimated tops of important geological markers:**

Formations	PROG SS	PROG TVD	Picked TVD	delta	Potential/Issues
Cenozoic Alluvium (surface)	3,670'	30'	30'	0	Sand/Gravels/Unconsolidated
Rustler	1904	1,796'			Carbonates
Salado	1634	2,066'			Salt, Anhydrite & Clastics
Base Salt	571	3,129'			Shaley Carbonate & Shale
Yates	211	3,489'			Anhyrite/Shale
Seven Rivers	-277	3,977'			Interbedded Shale/Carbonate
Queen	-943	4,643'			Sandstone & Dolomite & Anhydrite
Delaware Mtn Group	-2358	6,058'			Sandstone/Carb/Shale - oil/gas/water
Bone Spring Lime	-4182	7,882'			Shale/Carbonates - oil/gas
First Bone Spring Sand	-5599	9,299'			Sandstone - oil/gas/water
Second Bone Spring Carbonate	-5848	9,548'			Shale/Carbonates - oil/gas
Second Bone Spring Sand	-6174	9,874'			Sandstone - oil/gas/water
HZ Target	-6495	10,195'			Sandstone - oil/gas/water
Third Bone Spring Carbonate	-6655	10,355'			Shale/Carbonates - oil/gas

3. **Estimated depth of anticipated fresh water, oil or gas:**

Upper Permian Sands	0- 400’	Fresh Water
Delaware Sands	6,058'	Oil
1st Bone Spring Sand	9,299'	Oil
2nd Bone Spring Carb	9,548'	Oil
2nd Bone Spring Sand	9,874'	Oil
3rd Bone Spring Sand	N/A	Oil
Wolfcamp	N/A	Oil
Wolfcamp B	N/A	Oil

No other formations are expected to give up oil, gas or fresh water in measurable quantities. Surface freshwater sands will be protected by setting 13-3/8" casing at 1,846' and circulating cement back to surface.

4. **Casing Program:**

All casing strings will be run new.

Casing string	Weight	Grade	Burst	Collapse	Tension	Conn	Length	API design factor			
								Burst	Collapse	Tension	Coupling
Surface 13 3/8"	54.5	J-55	2730	1130	853	BTC 909	1,846	1.03	1.18	4.25	4.53
Intermediate 9 5/8"	40	HCL-80	7430	4230	916	BTC 1042	4,186	2.02	2.16	3.43	3.90
Production 7"	32	HCP-110	12460	10760	1025	CDC-HTQ 1053	9,710	1.90	2.37	2.50	2.56
Production 5 1/2"	20	HCP-110	12640	12200	641	CDC-HTQ 667	10,742	1.15	2.43	2.04	2.12
							10,272				2.18

Tapered production string will be ran with a X-over installed at the KOP of 9,710'.

FRANKLIN MOUNTAIN ENERGY

Cementing Program:

Cementing Stage tool can be placed in the 1st Intermediate string as a contingency to ensure required TOC to surface.

To increase efficiency of drilling operations and minimize disturbance of the area the batch-drilling approach will be used.

Off-line cementing may be utilized for Surface, Intermediate, and Production strings to further optimization of drilling process and reduction of disturbance.

String Type	Hole Size	Casing Size	Casing Setting Depth	Lead Sacks	Lead Type of cmt	Lead Yield ft3/sk	Lead Water gal/sk	Lead TOC ft	Tail Sacks	Tail Type of cmt	Tail Yield ft3/sk	Tail Water gal/sk	Tail TOC	Excess
Surf	17.5	13.375	1,846	931	85:15 Compass Poz, 12.8 ppg Class C, 5%Gel,3#/sk Kol Seal, 4.64#/sk Salt	2.05	11.12	0	233	Tail, 14.8 ppg, 100% Class C, 1%CaCl2, 0.1%	1.34	6.35	1,446	90%
Int1	12.25	9.625	4,186	688	Lead, 11.3 ppg, HSLD 82 10% Gel, 4% STE, 2#/sk, Gyp Seal	2.74	16.31	0	201	Econolite Tail, 14.8 ppg, 100% Class C, 0.08% C-51	1.33	6.33	3,786	100%
Prod	8.75	7	9,710	289	HSLD 9420, 10.5 ppg, Class C, 1#/sk Salt, 4% STE 1% C-45	3.99	25.51	3,186						20%
Prod	7.875	5.5	20,452						1529	HSLD 80, 13.ppg , 32#/sk Salt, 4% STE, 1#/sk Gyp Seal	1.52	7.59	9,710	20%

5. Minimum Specifications for Pressure Control:

The minimum blowout preventer equipment (BOPE) shown in Exhibit #1 will consist of a single ram, mud cross and double ram-type (10,000 psi WP) preventer and an annular preventer (5,000-psi WP). Both units will be hydraulically operated, and the ram-type will be equipped with blind rams on bottom and 4 ½" x 7" variable pipe rams on top. All BOPE will be tested in accordance with Onshore Oil & Gas order No. 2.

Before drilling out of the surface casing, the ram-type BOP and accessory equipment will be tested to 5,000/250 psig and the annular preventer to 3,500/250 psig. The surface casing will be tested to 1500 psi for 30 minutes.

Before drilling out of the intermediate casing, the ram-type BOP and accessory equipment will be tested to 10,000/250 psig and the annular preventer to 3,500/250 psig.

Pipe rams will be operationally checked each 24-hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets.

A hydraulically operated choke will be installed prior to drilling out of the intermediate casing shoe.

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6. Types and characteristics of the proposed mud system:

During this procedure we plan to use a Closed-Loop System and haul contents to the required disposal.
The applicable depths and properties of the drilling fluid systems are as follows.

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 – 1,846'	Fresh - Gel	8.6-8.8	28-34	N/c
1,846' – 4,186'	Brine	8.8-10.2	28-34	N/c
4,186'' – 10,610'	Brine	8.8-10.2	28-34	N/c
10,610' – 20,452' Lateral	OBM/WBM	8.4-11	58-68	3 - 6

The highest mud weight needed to balance formation is expected to be 9-11 ppg. In order to maintain hole stability, mud weights up to 11 ppg may be utilized.
An electronic pit volume totalizer (PVT) will be utilized on the circulating system, to monitor pit volume, flow rate, pump pressure and stroke rate.
Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept at the wellsite at all times.

7. Auxiliary well control and monitoring equipment:

(A) A kelly cock will be kept in the drill string at all times.
(B) A full opening drill pipe-stabbing valve (inside BOP) with proper drill pipe connections will be kept on the rig floor at all times.
(C) H2S monitoring and detection equipment will be utilized from surface casing point to TD.
(D) A wear bushing will be installed in the wellhead prior to drilling out of the surface casing.

8. Logging, testing and coring program:

GR–CCL-CNL Will be run in cased hole during completions phase of operations.
Open-hole logs are not planned for this well.

9. Abnormal conditions, pressures, temperatures and potential hazards:

The estimated bottom-hole temperature at 10,272' TVD (deepest point of the well) is 170F with an estimated maximum bottom-hole pressure (BHP) at the same point of 5,876' psig (based on 11 ppg MW). Hydrogen Sulfide may be present in the area. All necessary precautions will be taken before drilling operations commence. See Hydrogen Sulfide Plan below:

10. Hydrogen Sulfide Plan:

A. All personnel shall receive proper awareness H2S training.
B. Briefing Area: two perpendicular areas will be designated by signs and readily accessible.
C. Required Emergency Equipment
    a. Well Control Equipment
        i. Flare line 150’ from wellhead to be ignited by auto ignition sparking system.
        ii. Choke manifold with a remotely operated hydraulic choke.
        iii. Mud/gas separator
    b. Protective equipment for essential personnel

FRANKLIN MOUNTAIN ENERGY

i. Breathing Apparatus
    1. Rescue packs (SCBA) – 1 unit shall be placed at each briefing area, 2 shall be stored in a safety trailer on site.
    2. Work/Escape packs – 4 packs shall be stored on the rig floor with sufficient air hose not to restrict work activity
    3. Emergency Escape Packs – 4 packs shall be stored in the doghouse for emergency evacuation.
ii. Auxiliary Rescue Equipment
    1. Stretcher
    2. Two OSHA full body harnesses
    3. 100 feet of 5/8 inches OSHA approved rope
    4. 1-20# class ABC fire extinguisher

c. H2S Detection and Monitoring Equipment
    i. A stationary detector with three sensors will be placed in the doghouse if equipped, set to visually alarm at 10 ppm and audible at 14 ppm. The detector will be calibrated a minimum of every 30 days or as needed. The sensors will be placed in the following places:
        1. Rig Floor
        2. Below Rig Floor / Near BOPs
        3. End of flow line or where well bore fluid is being discharged (near shakers)
    ii. If H2S is encountered, measured values and formations will be provided to the BLM.
d. Visual Warning Systems
    i. One color code condition sign will be placed at the entrance to the site reflecting the possible conditions at the site.
    ii. A colored condition flag will be on display, reflecting the current condition at the site at the time.
    iii. Two windsocks will be placed in strategic locations, visible from all angles.
e. Mud Program
    i. The Mud program will be designed to minimize the volume of H2S circulated to surface. The operator will have the necessary mud products to minimize hazards while drilling in H2S bearing zones.
f. Metallurgy
    i. All drill strings, casings, tubing, wellhead, blowout preventer, drilling spool, kill lines, choke manifold and lines, and valves shall be suitable for H2S service at the anticipated operating pressures to prevent sour sulfide stress cracking.
g. Communication
    i. Communication will be via cell phones and walkie talkies on location.

Based on concentrations of offset wells, proximity to main roads, and distance to populated areas, the radius of exposure created by a potential release was determined to be minimal and low enough to not necessitate an H2S contingency plan. This will be reevaluated during wellbore construction if H2S is observed and after the well is on production.

11. Anticipated starting date and duration of operations:

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The drilling operations on the well should be finished in approximately one month. However, in order to minimize disturbance in the area and to improve efficiency Franklin Mountain is planning to drill all the wells on the pad prior to commence completion operations. To even further reduce the time heavy machinery is used the "batch drilling" method may be used. A batch drilling sequence sundry will be submitted for State approval prior to spud. A drilling rig with walking/skidding capabilities will be used.

12. Disposal/environmental concerns:

(A) Drilled cuttings will be hauled to and disposed of in a state-certified disposal site.
(B) Non-hazardous waste mud/cement from the drilling process will also be hauled to and disposed of in a state-certified disposal site.
(C) Garbage will be hauled to the Pecos City Landfill.
(D) Sewage (grey water) will be hauled to the Carlsbad City Landfill

13. Wellhead:

A multi-bowl wellhead system will be utilized.
After running the 13 3/8" surface casing, a 13-5/8" BOP/BOPE system with a minimum working pressure of 10,000 psi will be installed on the wellhead system and will be pressure tested to 250 psi low followed by a 5,000 psi pressure test. This pressure test will be repeated at least every 30 days.

The minimum working pressure of the BOP and related BOPE required for drilling below the surface casing shoe shall be 5,000 psi.

The wellhead will be installed by a third party welder while being monitored by WH vendor's representative.

All BOP equipment will be tested utilizing a conventional test plug. Not a cup or J-packer type.

A solid steel body pack-off will be utilized after running and cementing the intermediate casing string. After installation of the first intermediate string the pack-off and lower flanges will be pressure tested to 5000 psi.

Both the surface and intermediate casing strings will be tested as per NMOCD Rules to the one-third of manufacture's rated yield pressure, no less than 600 psi, but not greater than 1,500 psi.

14. Additional variance requests

A. Casing.

1. Variance is requested to wave/reduce the centralizer requirements for the 7" and 5 ½" production casing due to the tight clearance with 8 3/4" hole.

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

Operator: Franklin Mountain Energy 3, LLC 44 Cook Street Denver, CO 80206	OGRID: 331595
	Action Number: 388508
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	ALL PREVIOUS COA's APPLY.	10/1/2024