

U.S. Department of the Interior BUREAU OF LAND MANAGEMENT

Sundry Print Reports
03/15/2024

Well Name: TATANKA FED COM Well Location: T26S / R35E / SEC 2 / County or Parish/State:

TR C /

Well Number: 102H Type of Well: OIL WELL Allottee or Tribe Name:

Lease Number: NMNM12280 Unit or CA Name: Unit or CA Number:

US Well Number: 3002549866 Well Status: Approved Application for Operator: FRANKLIN

Permit to Drill

MOUNTAIN ENERGY LLC

Notice of Intent

Sundry ID: 2779788

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 03/15/2024 Time Sundry Submitted: 11:27

Date proposed operation will begin: 03/15/2024

Procedure Description: Franklin Mountain Energy, LLC (FME), Operator, respectfully requests approval to make the following changes to the proposed drilling plan for the above referenced well: Target Change: FME requests approval to change the formation target for this well from 8,751' TVD (97779 - WC-025 G05 S253523H; DELAWARE) to 9,167' TVD (97088 - WC-025 G-08 S253534O; BONE SPRING). SHL remains the same: 20 FNL 1372 FWL Sec 2 T26S R35E BHL remains the same: 150 FSL 1877 FWL Sec 11 T26S R35E Change from 4-string to 3-string design: - Change Surface casing set depth to 1,130'. - Set 1st Intermediate casing at 5,222'. - Set Production casing at 19,235' - Change cement volumes. Please see attached revised C-102, directional plan, 14-point plan and geoprog.

NOI Attachments

Procedure Description

B02_Tatanka_Fed_Com_102H_Plan_03_v02_RPT_20240315112734.pdf

Tatanka_Fed_Com_102H_14PP_20240315112734.pdf

Tatanka_Fed_Com_102H_GEOPROG_REV1a_20240315112734.pdf

C_102_Tatanka_Fed_Com_102H_Avalon_20240315112656.pdf

eceived by OCD: 3/15/2024 3:48:41 PM Well Name: TATANKA FED COM

Well Location: T26S / R35E / SEC 2 /

TR C /

Page 2 of County or Parish/State:

Well Number: 102H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM12280

Unit or CA Name:

Unit or CA Number:

US Well Number: 3002549866

Well Status: Approved Application for Permit to Drill

Operator: FRANKLIN MOUNTAIN ENERGY LLC

Conditions of Approval

Specialist Review

Tatanka_Fed_Com_102H_Sundry_ID_2779788_20240315141444.pdf

Operator

I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: RACHAEL OVERBEY Signed on: MAR 15, 2024 11:27 AM

Name: FRANKLIN MOUNTAIN ENERGY LLC

Title: Director - Operations Planning and Regulatory

Street Address: 44 COOK STREET, SUITE 1000

City: Denver State: CO

Phone: (720) 414-7868

Email address: roverbey@fmellc.com

Field

Representative Name:

Street Address:

City:

State:

Zip:

Phone:

Email address:

BLM Point of Contact

Signature: Long Vo

BLM POC Name: LONG VO BLM POC Title: Petroleum Engineer

BLM POC Phone: 5759885402 BLM POC Email Address: LVO@BLM.GOV

Disposition: Approved Disposition Date: 03/15/2024

Form 3160-5 (June 2019)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 202

	5.	Lease	Serial	No
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Do not use this fo	OTICES AND REPORTS ON Worm for proposals to drill or to Use Form 3160-3 (APD) for suc	re-enter an	6. If Indian, Allottee or	Tribe Name
	RIPLICATE - Other instructions on pag	• •	7. If Unit of CA/Agree	ment, Name and/or No.
1. Type of Well	, ,			
Oil Well Gas W	ell Other		8. Well Name and No.	
2. Name of Operator			9. API Well No.	
3a. Address	3b. Phone No.	(include area code)	10. Field and Pool or E	Exploratory Area
4. Location of Well (Footage, Sec., T.,R	,M., or Survey Description)		11. Country or Parish,	State
12. CHE	CK THE APPROPRIATE BOX(ES) TO INI	DICATE NATURE OF N	OTICE, REPORT OR OTH	ER DATA
TYPE OF SUBMISSION		TYPE OF	ACTION	
Notice of Intent Subsequent Report		aulic Fracturing 🔲 l	Production (Start/Resume) Reclamation Recomplete	Water Shut-Off Well Integrity Other
Subsequent Report	Change Plans Plug	and Abandon	Temporarily Abandon	
Final Abandonment Notice	Convert to Injection Plug	Back	Water Disposal	
completed. Final Abandonment Not is ready for final inspection.)	ns. If the operation results in a multiple conices must be filed only after all requirement			
14. I hereby certify that the foregoing is	true and correct. Name (Printed/Typed)			
		Title		
Signature		Date		
	THE SPACE FOR FED	ERAL OR STATE	OFICE USE	
Approved by				
certify that the applicant holds legal or e which would entitle the applicant to con-	*	ase Office	<u>'</u>	Oate
	U.S.C Section 1212, make it a crime for arents or representations as to any matter with		willfully to make to any dep	partment or agency of the United States

(Instructions on page 2)

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area or regional procedures and practices, are either shown below, will be issued by or may be obtained from the local Federal office.

SPECIFIC INSTRUCTIONS

Item 4 - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. If the proposal will involve **hydraulic fracturing operations**, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

The privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c)and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

(Form 3160-5, page 2)

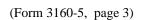
Additional Information

Additional Remarks

Please see attached revised C-102, directional plan, 14-point plan and geoprog.

Location of Well

0. SHL: TR C / 20 FNL / 1372 FWL / TWSP: 26S / RANGE: 35E / SECTION: 2 / LAT: 32.079512 / LONG: -103.342441 (TVD: 0 feet, MD: 0 feet) PPP: TR C / 717 FNL / 1878 FWL / TWSP: 26S / RANGE: 35E / SECTION: 2 / LAT: 32.077597 / LONG: -103.340803 (TVD: 8795 feet, MD: 9165 feet) PPP: SESW / 0 FSL / 1877 FWL / TWSP: 26S / RANGE: 35E / SECTION: 2 / LAT: 32.072293 / LONG: -103.340799 (TVD: 8795 feet, MD: 11100 feet) PPP: NENW / 0 FNL / 1877 FWL / TWSP: 26S / RANGE: 35E / SECTION: 11 / LAT: 32.065054 / LONG: -103.340793 (TVD: 8795 feet, MD: 13800 feet) BHL: TR N / 150 FSL / 1877 FWL / TWSP: 26S / RANGE: 35E / SECTION: 11 / LAT: 32.05094 / LONG: -103.340782 (TVD: 8795 feet, MD: 18863 feet)





Franklin Mountain Energy LLC

Lea County, NM(N83-NME3001)
Tatanka North_Pad 2 (Forge Core)
(B02) Tatanka Fed Com 102H - Slot (B02) TFC 102H
30-025-49866
102H

Plan: Plan 03 v02

Standard Planning Report

07 March, 2024



Database: TZ USA 17.2

Company: Franklin Mountain Energy LLC
Project: Lea County, NM(N83-NME3001)
Site: Tatanka North_Pad 2 (Forge Core)
Well: (B02) Tatanka Fed Com 102H

Wellbore: 102H

Design: Plan 03 v02

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well (B02) Tatanka Fed Com 102H - Slot

(B02) TFC 102H 3120+30 @ 3150.00usft 3120+30 @ 3150.00usft

Grid

Minimum Curvature

Project Lea County, NM(N83-NME3001)

Map System: US State Plane 1983
Geo Datum: North American Datum 1983
Map Zone: New Mexico Eastern Zone

System Datum:

Mean Sea Level

Site Tatanka North_Pad 2 (Forge Core)

 Site Position:
 Northing:
 394,147.27 usft
 Latitude:
 32.07971787

 From:
 Map
 Easting:
 848,154.95 usft
 Longitude:
 -103.34272514

Position Uncertainty: 0.00 usft Slot Radius: 13-3/16 "

Well (B02) Tatanka Fed Com 102H - Slot (B02) TFC 102H

 Well Position
 +N/-S
 0.00 usft
 Northing:
 394,073.12 usft
 Latitude:
 32.07951183

 +E/-W
 0.00 usft
 Easting:
 848,243.64 usft
 Longitude:
 -103.34244102

Position Uncertainty

0.00 usft

Wellhead Elevation:

usft

Ground Level:

3,120.00 usft

Grid Convergence: 0.53 °

Wellbore 102H

 Magnetics
 Model Name
 Sample Date (°)
 Declination (°)
 Dip Angle (°)
 Field Strength (nT)

 IGRF2020
 3/6/2024
 6.11
 59.71
 47,148.84656129

Design Plan 03 v02
Audit Notes:

Version:Phase:PLANTie On Depth:0.00

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

 0.00
 0.00
 0.00
 179.43

Plan Survey Tool Program Date 3/7/2024

Depth From Depth To (usft) (usft) Survey (Wellbore) Tool Name Remarks

1 0.00 19,234.99 Plan 03 v02 (102H) MWD+IFR1+MS

OWSG MWD + IFR1 + Multi-St



Database: TZ USA 17.2

Company: Franklin Mountain Energy LLC
Project: Lea County, NM(N83-NME3001)
Site: Tatanka North_Pad 2 (Forge Core)
Well: (B02) Tatanka Fed Com 102H

Wellbore: 102H
Design: Plan 03 v02

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well (B02) Tatanka Fed Com 102H - Slot

(B02) TFC 102H 3120+30 @ 3150.00usft 3120+30 @ 3150.00usft

Grid

lan 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	
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,733.33	8.00	180.00	3,731.60	-37.17	0.00	1.50	1.50	0.00	180.00	
4,528.18	9.30	92.97	4,520.21	-96.02	64.34	1.50	0.16	-10.95	-128.66	
6,968.03	9.30	92.97	6,928.02	-116.41	457.91	0.00	0.00	0.00	0.00	
7,587.72	0.00	0.00	7,545.00	-119.00	508.00	1.50	-1.50	0.00	180.00	
8,636.76	0.00	0.00	8,594.04	-119.00	508.00	0.00	0.00	0.00	0.00	
9,536.76	90.00	179.43	9,167.00	-691.93	513.66	10.00	10.00	19.94	179.43	
19,234.99	90.00	179.43	9,167.00	-10,389.68	609.40	0.00	0.00	0.00	0.00	04-PBHL(TFC-102H



Database: TZ USA 17.2

Company: Franklin Mountain Energy LLC
Project: Lea County, NM(N83-NME3001)
Site: Tatanka North_Pad 2 (Forge Core)
Well: (B02) Tatanka Fed Com 102H

Wellbore: 102H
Design: Plan 03 v02

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well (B02) Tatanka Fed Com 102H - Slot

(B02) TFC 102H 3120+30 @ 3150.00usft 3120+30 @ 3150.00usft

Grid

Design:	Гіан	03 v02								
Planned Survey										
Measured Depth (usft)	Inclin	nation °)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0 30.0	00 00	0.00 0.00	0.00 0.00	0.00 30.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
Cenozoi	c Alluvium	(surface)								
100.0		0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.0		0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.0	00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.0	00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.0		0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.0		0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.0		0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.0	00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.0	00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.0	00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.0		0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,115.0	00	0.00	0.00	1,115.00	0.00	0.00	0.00	0.00	0.00	0.00
Rustler										
1,200.0	00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.0	00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.0	00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,443.0	00	0.00	0.00	1,443.00	0.00	0.00	0.00	0.00	0.00	0.00
Salado										
1,500.0	00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.0	00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.0	00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.0		0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.0		0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.0		0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.0	00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.0	00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.0		0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.0		0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.0	00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.0	00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.0	00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.0		0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.0		0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.0		0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.0	00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.0	00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.0		1.50	180.00	3,299.99	-1.31	0.00	1.31	1.50	1.50	0.00
3,400.0		3.00	180.00	3,399.91	-5.23	0.00	5.23	1.50	1.50	0.00
3,500.0	00	4.50	180.00	3,499.69	-11.77	0.00	11.77	1.50	1.50	0.00
3,600.0	00	6.00	180.00	3,599.27	-20.92	0.00	20.92	1.50	1.50	0.00
3,700.0	00	7.50	180.00	3,698.57	-32.68	0.00	32.68	1.50	1.50	0.00
3,733.		8.00	180.00	3,731.60	-37.17	0.00	37.17	1.50	1.50	0.00
3,800.0		7.42	173.94	3,797.67	-46.09	0.45	46.09	1.50	-0.88	-9.09
3,900.0	00	6.73	163.09	3,896.91	-58.11	2.84	58.14	1.50	-0.69	-10.85
4,000.0	00	6.32	150.35	3,996.27	-68.50	7.27	68.57	1.50	-0.40	-12.75
4,100.0	00	6.26	136.63	4,095.67	-77.25	13.73	77.38	1.50	-0.06	-13.71
4,200.0		6.54	123.40	4,195.05	-84.34	22.23	84.56	1.50	0.29	-13.24
4,300.0		7.14	111.82	4,294.35	-89.79	32.76	90.11	1.50	0.60	-11.58
4,400.0		7.98	102.33	4,393.48	-93.58	45.31	94.03	1.50	0.84	-9.49
4,500.0	00	8.99	94.79	4,492.39	-95.72	59.87	96.31	1.50	1.01	-7.54



Database: TZ USA 17.2

Company: Franklin Mountain Energy LLC
Project: Lea County, NM(N83-NME3001)
Site: Tatanka North_Pad 2 (Forge Core)
Well: (B02) Tatanka Fed Com 102H

 Wellbore:
 102H

 Design:
 Plan 03 v02

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well (B02) Tatanka Fed Com 102H - Slot

(B02) TFC 102H 3120+30 @ 3150.00usft 3120+30 @ 3150.00usft

Grid

Design:	Plan 03 v02								
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)
4,528.18 4,600.00 4,700.00 4,760.01	9.30 9.30 9.30 9.30	92.97 92.97 92.97 92.97	4,520.21 4,591.09 4,689.77 4,749.00	-96.02 -96.62 -97.45 -97.95	64.34 75.93 92.06 101.74	96.65 97.37 98.36 98.96	1.50 0.00 0.00 0.00	1.09 0.00 0.00 0.00	-6.46 0.00 0.00 0.00
Base Salt 4,800.00	9.30	92.97	4,788.46	-98.29	108.19	99.36	0.00	0.00	0.00
4,900.00 5,000.00 5,040.70	9.30 9.30 9.30	92.97 92.97 92.97	4,887.15 4,985.83 5,026.00	-99.12 -99.96 -100.30	124.32 140.45 147.01	100.36 101.35 101.76	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
Lamar 5,100.00	9.30	92.97	5,084.52	-100.80	156.58	102.35	0.00	0.00	0.00
5,200.00 5,222.08	9.30 9.30	92.97 92.97	5,183.21 5,205.00	-101.63 -101.82	172.71 176.27	103.34 103.56	0.00	0.00 0.00	0.00 0.00
Bell Canyon 5,300.00 5,400.00 5,500.00 5,600.00	9.30 9.30 9.30 9.30	92.97 92.97 92.97 92.97	5,281.90 5,380.58 5,479.27 5,577.96	-102.47 -103.30 -104.14 -104.97	188.84 204.97 221.10 237.23	104.34 105.34 106.33 107.33	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
5,700.00 5,800.00 5,900.00 6,000.00 6,100.00	9.30 9.30 9.30 9.30 9.30	92.97 92.97 92.97 92.97 92.97	5,676.64 5,775.33 5,874.02 5,972.70 6,071.39	-105.81 -106.64 -107.48 -108.32 -109.15	253.37 269.50 285.63 301.76 317.89	108.32 109.32 110.32 111.31 112.31	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
6,132.03	9.30	92.97	6,103.00	-109.42	323.06	112.63	0.00	0.00	0.00
Cherry Canyo	on								
6,200.00 6,300.00 6,400.00 6,500.00	9.30 9.30 9.30 9.30	92.97 92.97 92.97 92.97	6,170.08 6,268.76 6,367.45 6,466.14	-109.99 -110.82 -111.66 -112.49	334.02 350.15 366.28 382.41	113.30 114.30 115.30 116.29	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
6,600.00 6,700.00 6,800.00 6,900.00	9.30 9.30 9.30 9.30	92.97 92.97 92.97 92.97	6,564.82 6,663.51 6,762.20 6,860.88	-113.33 -114.17 -115.00 -115.84	398.54 414.67 430.80 446.94	117.29 118.29 119.28 120.28	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
6,968.03 7,000.00 7,100.00	9.30 8.82 7.32 5.82	92.97 92.97 92.97	6,928.02 6,959.59 7,058.60	-116.41 -116.67 -117.39	457.91 462.93 476.95	120.95 121.27 122.13 122.84	0.00 1.50 1.50	0.00 -1.50 -1.50 -1.50	0.00 0.00 0.00
7,200.00 7,300.00 7,400.00	4.32 2.82 1.32	92.97 92.97 92.97	7,157.94 7,257.55 7,357.35 7,457.28	-117.98 -118.44 -118.76 -118.95	488.37 497.18 503.39	123.38 123.76 123.99	1.50 1.50 1.50	-1.50 -1.50	0.00 0.00 0.00
7,500.00 7,587.72 7,600.00 7,662.72	0.00 0.00 0.00	92.97 0.00 0.00 0.00	7,457.28 7,545.00 7,557.28 7,620.00	-119.00 -119.00 -119.00	506.99 508.00 508.00 508.00	124.05 124.05 124.05 124.05	1.50 1.50 0.00 0.00	-1.50 -1.50 0.00 0.00	0.00 0.00 0.00 0.00
Brushy Canyo 7,700.00	on 0.00	0.00	7,657.28	-119.00	508.00	124.05	0.00	0.00	0.00
7,800.00 7,900.00 8,000.00 8,100.00 8,200.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	7,757.28 7,857.28 7,857.28 7,957.28 8,057.28 8,157.28	-119.00 -119.00 -119.00 -119.00 -119.00	508.00 508.00 508.00 508.00 508.00 508.00	124.05 124.05 124.05 124.05 124.05	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00
8,300.00 8,337.72	0.00 0.00	0.00 0.00	8,257.28 8,295.00	-119.00 -119.00	508.00 508.00	124.05 124.05	0.00 0.00	0.00 0.00	0.00 0.00



Database: TZ USA 17.2

Company: Franklin Mountain Energy LLC
Project: Lea County, NM(N83-NME3001)
Site: Tatanka North_Pad 2 (Forge Core)
Well: (B02) Tatanka Fed Com 102H

 Wellbore:
 102H

 Design:
 Plan 03 v02

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well (B02) Tatanka Fed Com 102H - Slot

(B02) TFC 102H 3120+30 @ 3150.00usft 3120+30 @ 3150.00usft

Grid

gn:		Plan 03 v02								
ned Su	ırvey									
	easured 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)
00	0-KOP(TFC-	·102H)								
	8,400.00	0.00	0.00	8,357.28	-119.00	508.00	124.05	0.00	0.00	0.00
	8,500.00	0.00	0.00	8,457.28	-119.00	508.00	124.05	0.00	0.00	0.00
	8,600.00	0.00	0.00	8,557.28	-119.00	508.00	124.05	0.00	0.00	0.00
	8,636.76	0.00	0.00	8,594.04	-119.00	508.00	124.05	0.00	0.00	0.00
K	OP: 8636.76	6' MD/ 124.05' V								
	8,650.00	1.32	179.43	8,607.28	-119.15	508.00	124.20	10.00	10.00	0.00
	8,700.00	6.32	179.43	8,657.15	-122.49	508.03	127.53	10.00	10.00	0.00
	8,750.00	11.32	179.43	8,706.54	-130.15	508.11	135.20	10.00	10.00	0.00
	8,800.00	16.32	179.43	8,755.08	-142.10	508.23	147.14	10.00	10.00	0.00
	0.050.00	24.22	170 42	0 000 00	150.00	E00 20	162.07	10.00	10.00	0.00
	8,850.00	21.32	179.43	8,802.39	-158.22	508.39	163.27	10.00	10.00	0.00
	8,900.00	26.32	179.43	8,848.11	-178.41	508.59	183.46	10.00	10.00	0.00
	8,950.00	31.32	179.43	8,891.90	-202.51	508.82	207.56	10.00	10.00	0.00
	9,000.00	36.32	179.43	8,933.43	-230.33	509.10	235.38	10.00	10.00	0.00
	9,050.00	41.32	179.43	8,972.37	-261.66	509.41	266.72	10.00	10.00	0.00
	9,100.00	46.32	179.43	9,008.43	-296.27	509.75	301.33	10.00	10.00	0.00
	9,103.73	46.70	179.43	9,011.00	-298.98	509.78	304.04	10.00	10.00	0.00
	one Spring			-,						
	9.150.00	51.32	179.43	9,041.34	-333.89	510.12	338.95	10.00	10.00	0.00
	9,200.00	56.32	179.43	9,070.85	-374.24	510.52	379.30	10.00	10.00	0.00
	9,250.00	61.32	179.43	9,070.83	-374.24 -417.00	510.52	422.07	10.00	10.00	0.00
	9,230.00	01.32	179.43	9,090.72	-417.00	310.94	422.07	10.00	10.00	0.00
	9,300.00	66.32	179.43	9,118.77	-461.86	511.38	466.92	10.00	10.00	0.00
	9,350.00	71.32	179.43	9,136.83	-508.47	511.85	513.53	10.00	10.00	0.00
	9,400.00	76.32	179.43	9,150.75	-556.47	512.32	561.54	10.00	10.00	0.00
	9,450.00	81.32	179.43	9,160.44	-605.50	512.80	610.57	10.00	10.00	0.00
	9,500.00	86.32	179.43	9,165.82	-655.19	513.29	660.27	10.00	10.00	0.00
	0.526.76	90.00	170.42	0.467.00	604.02	E12.66	697.01	10.00	10.00	0.00
	9,536.76		179.43	9,167.00	-691.93	513.66	097.01	10.00	10.00	0.00
		6' MD/ 697.00' V								
	9,600.00	90.00	179.43	9,167.00	-755.16	514.28	760.24	0.00	0.00	0.00
	9,700.00	90.00	179.43	9,167.00	-855.16	515.27	860.24	0.00	0.00	0.00
	9,800.00	90.00	179.43	9,167.00	-955.15	516.26	960.24	0.00	0.00	0.00
	9,900.00	90.00	179.43	9,167.00	-1,055.15	517.24	1,060.24	0.00	0.00	0.00
1	10,000.00	90.00	179.43	9,167.00	-1,155.14	518.23	1,160.24	0.00	0.00	0.00
	10,100.00	90.00	179.43	9,167.00	-1,255.14	519.22	1,260.24	0.00	0.00	0.00
	10,100.00	90.00	179.43	9,167.00	-1,355.13	520.20	1,360.24	0.00	0.00	0.00
	10,200.00	90.00	179.43	9,167.00	-1,455.13	521.19	1,460.24	0.00	0.00	0.00
	10,300.00	90.00	179.43	9,167.00	-1,555.12	521.19	1,560.24	0.00	0.00	0.00
	•									
	10,500.00	90.00	179.43	9,167.00	-1,655.12	523.17	1,660.24	0.00	0.00	0.00
1	10,600.00	90.00	179.43	9,167.00	-1,755.11	524.15	1,760.24	0.00	0.00	0.00
1	10,700.00	90.00	179.43	9,167.00	-1,855.11	525.14	1,860.24	0.00	0.00	0.00
1	10,800.00	90.00	179.43	9,167.00	-1,955.10	526.13	1,960.24	0.00	0.00	0.00
	10,900.00	90.00	179.43	9,167.00	-2,055.10	527.11	2,060.24	0.00	0.00	0.00
	11,000.00	90.00	179.43	9,167.00	-2,155.10	528.10	2,160.24	0.00	0.00	0.00
	11,100.00	90.00	179.43	9,167.00	-2,255.09	529.09	2,260.24	0.00	0.00	0.00
	11,200.00	90.00	179.43	9,167.00	-2,355.09	530.08	2,360.24	0.00	0.00	0.00
	11,300.00	90.00	179.43	9,167.00	-2,455.08	531.06	2,460.24	0.00	0.00	0.00
1	11,400.00	90.00	179.43	9,167.00	-2,555.08	532.05	2,560.24	0.00	0.00	0.00
1	11,466.34	90.00	179.43	9,167.00	-2,621.41	532.71	2,626.58	0.00	0.00	0.00
			170.40	5, 107.00	2,021.71	302.71	2,020.00	0.00	0.00	0.00
	2-PPP2(TFC	•	170.40	9,167.00	-2,655.07	533.04	2 660 24	0.00	0.00	0.00
	11,500.00 11,600.00	90.00 90.00	179.43 179.43	9,167.00	-2,055.07 -2,755.07	533.04	2,660.24 2,760.24	0.00 0.00	0.00	0.00
	11,000.00	90.00	179.43	9,167.00	-2,755.07 -2,855.06	534.03 535.01	2,760.24 2,860.24	0.00	0.00	0.00



Database: TZ USA 17.2

Company: Franklin Mountain Energy LLC
Project: Lea County, NM(N83-NME3001)
Site: Tatanka North_Pad 2 (Forge Core)
Well: (B02) Tatanka Fed Com 102H

Wellbore: 102H
Design: Plan 03 v02

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well (B02) Tatanka Fed Com 102H - Slot

(B02) TFC 102H 3120+30 @ 3150.00usft 3120+30 @ 3150.00usft

Grid

esign:	Plan 03 v02								
lanned 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)
11,800.00	90.00	179.43	9,167.00	-2,955.06	536.00	2,960.24	0.00	0.00	0.00
11,900.00	90.00	179.43	9,167.00	-3,055.05	536.99	3,060.24	0.00	0.00	0.00
12,000.00	90.00	179.43	9,167.00	-3,155.05	537.97	3,160.24	0.00	0.00	0.00
12,100.00	90.00	179.43	9,167.00	-3,255.04	538.96	3,260.24	0.00	0.00	0.00
12,200.00	90.00	179.43	9,167.00	-3,355.04	539.95	3,360.24	0.00	0.00	0.00
12,300.00	90.00	179.43	9,167.00	-3,455.03	540.94	3,460.24	0.00	0.00	0.00
12,400.00	90.00	179.43	9,167.00	-3.555.03	541.92	3,560.24	0.00	0.00	0.00
12,500.00	90.00	179.43	9,167.00	-3,655.02	542.91	3,660.24	0.00	0.00	0.00
12,600.00	90.00	179.43	9,167.00	-3,755.02	543.90	3,760.24	0.00	0.00	0.00
12,700.00	90.00	179.43	9,167.00	-3,855.01	544.88	3,860.24	0.00	0.00	0.00
12,800.00	90.00	179.43	9,167.00	-3,955.01	545.87	3,960.24	0.00	0.00	0.00
12,900.00	90.00	179.43	9,167.00	-4,055.00	546.86	4,060.24	0.00	0.00	0.00
13,000.00	90.00	179.43	9,167.00	-4,155.00	547.85	4,160.24	0.00	0.00	0.00
13,100.00	90.00	179.43	9,167.00	-4,254.99	548.83	4,260.24	0.00	0.00	0.00
13,200.00	90.00	179.43	9,167.00	-4,354.99	549.82	4,360.24	0.00	0.00	0.00
13,300.00	90.00	179.43	9,167.00	-4,454.98	550.81	4,460.24	0.00	0.00	0.00
13,400.00	90.00	179.43	9,167.00	-4,554.98	551.80	4,560.24	0.00	0.00	0.00
13,500.00	90.00	179.43	9,167.00	-4,654.97	552.78	4,660.24	0.00	0.00	0.00
13,600.00	90.00	179.43	9,167.00	-4,754.97	553.77	4,760.24	0.00	0.00	0.00
13,700.00	90.00	179.43	9,167.00	-4,854.96	554.76	4,860.24	0.00	0.00	0.00
13,800.00	90.00	179.43	9,167.00	-4,954.96	555.74	4,960.24	0.00	0.00	0.00
13,900.00	90.00	179.43	9,167.00	-5,054.95	556.73	5,060.24	0.00	0.00	0.00
14,000.00	90.00	179.43	9,167.00	-5,154.95	557.72	5,160.24	0.00	0.00	0.00
14,099.99	90.00	179.43	9,167.00	-5,254.93	558.71	5,260.23	0.00	0.00	0.00
03-PPP3(TF			., .	-,		-,			
14,100.00	90.00	179.43	9,167.00	-5,254.94	558.71	5,260.24	0.00	0.00	0.00
14,200.00	90.00	179.43	9,167.00	-5,354.94	559.69	5,360.24	0.00	0.00	0.00
14,300.00	90.00	179.43	9,167.00	-5,454.93	560.68	5,460.24	0.00	0.00	0.00
14,400.00	90.00	179.43	9,167.00	-5,554.93	561.67	5,560.24	0.00	0.00	0.00
14,500.00	90.00	179.43	9,167.00	-5,654.92	562.65	5,660.24	0.00	0.00	0.00
14,600.00	90.00	179.43	9,167.00	-5,754.92	563.64	5,760.24	0.00	0.00	0.00
14,700.00	90.00	179.43	9,167.00	-5,854.91	564.63	5,860.24	0.00	0.00	0.00
14,800.00	90.00	179.43	9,167.00	-5,954.91	565.62	5,960.24	0.00	0.00	0.00
14,900.00	90.00	179.43	9,167.00	-6,054.91	566.60	6,060.24	0.00	0.00	0.00
15,000.00	90.00	179.43	9,167.00	-6,154.90	567.59	6,160.24	0.00	0.00	0.00
15,100.00 15,200.00	90.00 90.00	179.43 179.43	9,167.00 9,167.00	-6,254.90 -6,354.89	568.58 569.57	6,260.24 6,360.24	0.00 0.00	0.00 0.00	0.00 0.00
15,300.00	90.00	179.43	9,167.00	-6,454.89	570.55	6,460.24	0.00	0.00	0.00
15,400.00	90.00	179.43	9,167.00	-6,554.88	571.54	6,560.24	0.00	0.00	0.00
15,500.00	90.00	179.43	9,167.00	-6,654.88	572.53	6,660.24	0.00	0.00	0.00
15,600.00	90.00	179.43	9,167.00	-6,754.87	573.51	6,760.24	0.00	0.00	0.00
15,700.00	90.00	179.43	9,167.00	-6,854.87	574.50	6,860.24	0.00	0.00	0.00
15,800.00	90.00	179.43	9,167.00	-6,954.86	575.49	6,960.24	0.00	0.00	0.00
15,900.00	90.00	179.43	9,167.00	-7,054.86	576.48	7,060.24	0.00	0.00	0.00
16,000.00	90.00	179.43	9,167.00	-7,154.85	577.46	7,160.24	0.00	0.00	0.00
16,100.00	90.00	179.43	9,167.00	-7,254.85	578.45	7,260.24	0.00	0.00	0.00
16,200.00	90.00	179.43	9,167.00	-7,354.84	579.44	7,360.24	0.00	0.00	0.00
16,300.00	90.00	179.43	9,167.00	-7,454.84	580.42	7,460.24	0.00	0.00	0.00
16,400.00	90.00	179.43	9,167.00	-7,554.83	581.41	7,560.24	0.00	0.00	0.00
16,500.00	90.00	179.43	9,167.00	-7,654.83	582.40	7,660.24	0.00	0.00	0.00
16,600.00	90.00	179.43	9,167.00	-7,754.82	583.39	7,760.24	0.00	0.00	0.00
16,700.00	90.00	179.43	9,167.00	-7,854.82	584.37	7,860.24	0.00	0.00	0.00



Database: TZ USA 17.2

Company: Franklin Mountain Energy LLC
Project: Lea County, NM(N83-NME3001)
Site: Tatanka North_Pad 2 (Forge Core)
Well: (B02) Tatanka Fed Com 102H

Wellbore: 102H
Design: Plan 03 v02

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well (B02) Tatanka Fed Com 102H - Slot

(B02) TFC 102H 3120+30 @ 3150.00usft 3120+30 @ 3150.00usft

Grid

Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Vertical Section	Dogleg Rate	Build Rate	Turn Rate
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)
16,800.00	90.00	179.43	9,167.00	-7,954.81	585.36	7,960.24	0.00	0.00	0.00
16,900.00	90.00	179.43	9,167.00	-8,054.81	586.35	8,060.24	0.00	0.00	0.00
17,000.00	90.00	179.43	9,167.00	-8,154.80	587.34	8,160.24	0.00	0.00	0.00
17,100.00	90.00	179.43	9,167.00	-8,254.80	588.32	8,260.24	0.00	0.00	0.00
17,200.00	90.00	179.43	9,167.00	-8,354.79	589.31	8,360.24	0.00	0.00	0.00
17,300.00	90.00	179.43	9,167.00	-8,454.79	590.30	8,460.24	0.00	0.00	0.00
17,400.00	90.00	179.43	9,167.00	-8,554.78	591.28	8,560.24	0.00	0.00	0.00
17,500.00	90.00	179.43	9,167.00	-8,654.78	592.27	8,660.24	0.00	0.00	0.00
17,600.00	90.00	179.43	9,167.00	-8,754.77	593.26	8,760.24	0.00	0.00	0.00
17,700.00	90.00	179.43	9,167.00	-8,854.77	594.25	8,860.24	0.00	0.00	0.00
17,800.00	90.00	179.43	9,167.00	-8,954.76	595.23	8,960.24	0.00	0.00	0.00
17,900.00	90.00	179.43	9,167.00	-9,054.76	596.22	9,060.24	0.00	0.00	0.00
18,000.00	90.00	179.43	9,167.00	-9,154.75	597.21	9,160.24	0.00	0.00	0.00
18,100.00	90.00	179.43	9,167.00	-9,254.75	598.20	9,260.24	0.00	0.00	0.00
18,200.00	90.00	179.43	9,167.00	-9,354.74	599.18	9,360.24	0.00	0.00	0.00
18,300.00	90.00	179.43	9,167.00	-9,454.74	600.17	9,460.24	0.00	0.00	0.00
18,400.00	90.00	179.43	9,167.00	-9,554.73	601.16	9,560.24	0.00	0.00	0.00
18,500.00	90.00	179.43	9,167.00	-9,654.73	602.14	9,660.24	0.00	0.00	0.00
18,600.00	90.00	179.43	9,167.00	-9,754.73	603.13	9,760.24	0.00	0.00	0.00
18,700.00	90.00	179.43	9,167.00	-9,854.72	604.12	9,860.24	0.00	0.00	0.00
18,800.00	90.00	179.43	9,167.00	-9,954.72	605.11	9,960.24	0.00	0.00	0.00
18,900.00	90.00	179.43	9,167.00	-10,054.71	606.09	10,060.24	0.00	0.00	0.00
19,000.00	90.00	179.43	9,167.00	-10,154.71	607.08	10,160.24	0.00	0.00	0.00
19,100.00	90.00	179.43	9,167.00	-10,254.70	608.07	10,260.24	0.00	0.00	0.00
19,200.00	90.00	179.43	9,167.00	-10,354.70	609.05	10,360.24	0.00	0.00	0.00
19,234.99	90.00	179.43	9,167.00	-10,389.68	609.40	10,395.23	0.00	0.00	0.00

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
00-KOP(TFC-102H) - plan hits target cent	0.00 er	0.00	8,295.00	-119.00	508.00	393,954.12	848,751.64	32.07917191	-103.34080461
02-PPP2(TFC-102H) - plan hits target center - Point	0.00 er	0.00	9,167.00	-2,621.41	532.71	391,451.71	848,776.35	32.07229327	-103.34079917
03-PPP3(TFC-102H) - plan hits target center - Point	0.00 er	0.00	9,167.00	-5,254.93	558.71	388,818.19	848,802.35	32.06505422	-103.34079343
04-PBHL(TFC-102H) - plan hits target cent - Point	0.00 er	0.00	9,167.00	-10,389.68	609.40	383,683.44	848,853.04	32.05093975	-103.34078223
01-T98(TFC-102H) - plan hits target cente - Point	0.00 er	0.00	9,167.00	-691.93	513.66	393,381.19	848,757.30	32.07759704	-103.34080336



Database: TZ USA 17.2

Company: Franklin Mountain Energy LLC
Project: Lea County, NM(N83-NME3001)
Site: Tatanka North_Pad 2 (Forge Core)
Well: (B02) Tatanka Fed Com 102H

Wellbore: 102H
Design: Plan 03 v02

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well (B02) Tatanka Fed Com 102H - Slot

(B02) TFC 102H 3120+30 @ 3150.00usft 3120+30 @ 3150.00usft

Grid

Formations							
	Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
	30.00	30.00	Cenozoic Alluvium (surface)				
	1,115.00	1,115.00	Rustler				
	1,443.00	1,443.00	Salado				
	4,760.01	4,749.00	Base Salt				
	5,040.70	5,026.00	Lamar				
	5,222.08	5,205.00	Bell Canyon				
	6,132.03	6,103.00	Cherry Canyon				
	7,662.72	7,620.00	Brushy Canyon				
	9,103.73	9,011.00	Bone Spring Lime				
	9,536.76	9,167.00	HZ Target at Landing				

Plan Annotatio	ons				
	Measured Depth (usft)	Vertical Depth (usft)	Local Coord +N/-S (usft)	dinates +E/-W (usft)	Comment
	8,636.76 9,536.76 19.234.99	8,594.04 9,167.00 9.167.00	-119.00 -691.93 -10.389.68	508.00 513.66 609.40	KOP: 8636.76' MD/ 124.05' VS/8594.04' TVD EOC: 9536.76' MD/ 697.00' VS/9167.00' TVD TD: 19234.99' MD/ 10395.23' VS/9167.00' TVD



Tatanka Fed Com 102H

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)	3,120'	30'	30'	0	Sand/Gravels/unconsolidated
Rustler	2035.3	1,115'			Carbonates
Salado	1706.8	1,443'			Salt, Carbonate & Clastics
Base Salt	-1598.82	4,749'			Shaley Carbonate & Shale
Lamar	-1875.93	5,026'			Carbonate & Clastics
Bell Canyon	-2055.32	5,205'			Sandstone - oil/gas/water
Cherry Canyon	-2953.12	6,103'			Sandstone - oil/gas/water
Brushy Canyon	-4470.49	7,620'			Sand/carb/shales - oil/gas/water
Bone Spring Lime	-5860.75	9,011'			Shale/Carbonates - oil/gas
HZ Target at Landing	-6017.24	9,167'			Shale/Carbonates - oil/gas
Avalon Carb	-6074.15	9,224'			Shale/Carbonates - oil/gas

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

0-400'	Fresh Water
5,222'	Oil
9,224'	Oil
N/A	Oil
N/A	Oil
	5,222' 9,224' N/A

No other formations are expected to give up oil, gas or fresh water in measurable quantities. Surface freshwater sands will be protected by setting 13.375 casing at 1,130' and circulating cement back to surface.

4. Casing Program:

All casing strings will be run new. Safety factors calculated assuming the well is vertical.

Cosing string	Weight	Grade	Burst	Collapse	Tension	Conn	Longth		API des	ign facto	r
Casing string	weight	Grade	Burst	Синарье	rension		Length	Burst	Collapse	Tension	Coupling
						BTC					
Surface 13 3/8"	54.5	J-55	2730	1130	853	909	1,130	1.24	1.92	5.28	5.63
						BTC					
Intermediate 9 5/8"	40	HCT-80	7430	4230	916	1042	5,222	1.76	1.73	2.97	3.37
						Eagle					
Long string 5 1/2"	23	P-110	14520	14520	729	606	19,235	1.32	1.61	1.34	1.12
							9,167				1.95

Stress calculations on 5.5 casing performed assuming 19,235' depth. Actual max vertical depth is 9,167'.

Cementing Program:

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



String	Hole	Cas	sing		Lea	d					Tail			
Туре	Size	Size	Setting	Sacks	Type of cmt	Yield	Water	TOC	Sacks	Type of cm t	Yield	Water	TOC	Excess
			Depth			ft3/sk	gal/sk	ft			ft3/sk	gal/sk		
Surf	17.5	Shoe	1,130	660	Extenda Cem, 13.5	1.747	9.06	0	335	Tail, 14.8 ppg, Class	1.349	6.51	830	100%
		Track			ppg Class C, 3lb/sk					С,				
					Kol-Seal									
					0.125pps Poly-E-					1% CaCl2,				
					Flake					0.125pps Celo-				
										Flake				
Int	12.25	Shoe	5,222	1921	Lead, 12.8 ppg, Class	1.45	6.9	0	149	Tail, 14.8 ppg, Class	1.33	6.3	4,922	100%
		Track			C, 5% Salt					С,				
					0.125 pps Poly-E-					0.1% HR 800 .125				
					Flake, 3lb/sk Kol-Seal					pps Poly-E-Flake				
Prod	8.75/	Shoe	19,235	292		5.1	25.51	4,722	1544	Tail, 13.5 ppg, Class	1.43	6.87	8,637	20%
	7.875	Track			HSLD 9420, 10.5					HSLD 82H; 0.4%				
					ppg, Class C, 1#/sk					CFL-2; 4% STE;				
					Salt, 4% STE					0.07% CSA-1000;				
					1% C-45					.29#/sk Salt;				
										.29#/sk Gypseal				

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 $4 \frac{1}{2}$ " 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 5,000/250 psig. The surface casing will be tested for 30 minutes to 0.22 psi/ft or 1500 psi, whichever is greater, but not to exceed 70% of Internal yield.

Before drilling out of the intermediate 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 intermediate casing will be for 30 minutes to 0.22 psi/ft or 1500 psi, whichever is greater, but not to exceed 70% of Internal yield prior to drill-out.

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.



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	Туре	Weight (ppg)	Viscosity	Water Loss
0 – 1,130′	Fresh - Gel	8.6-8.8	28-34	N/c
1,130′ –5,200′	Brine	8.8-10.2	28-34	N/c
5,200' –19,235' Lateral	Brine or OBM	8.8-10.0	28-68	3 – N/c

The highest mud weight needed to balance formation is expected to be 8.8-10 ppg. In order to maintain hole stability, mud weights up to 10.5 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 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 9,167' TVD (deepest point of the well) is 160°F with an estimated maximum bottom-hole pressure (BHP) at the same point of 4,528 psig (based on 9.5 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 100' 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
 - 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.
 - ii. 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.

Franklin Mountain Energy has conducted a review of offset operated wells to determine if an H2S contingency plan is required for the proposed well. 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:

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. The 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 be 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, as per Onshore Order No. 2

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

The multi-bowl wellhead will be installed by vendor's representative(s). A copy of the installation instructions for the Cactus Multi-Bowl WH system has been sent to the BLM office in Carlsbad.

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 intermediate string the pack-off and lower flanges will be pressure tested to 5,000 psi.

Both the surface and intermediate casing strings will be tested as per Onshore Order No. 2 to at least 0.22 psi/ft or 1,500 psi, whichever is greater.

14. Additional variance requests

- A. Casing.
 - a. Variance is requested to waive the centralizer requirements for the 5-1/2" casing due to the tight clearance with 7-7/8" hole and 5-1/2" casing.

FRANKLIN MOUNTAIN ENERGY



3,150'

Geologic Prognosis

Well Name	Tatanka Fed Com 102H
Operator	Franklin Mountain Energy, LLC
Project Area	Avalon
Well Type	10,000' Avalon Lateral
API	
Permit Number	
Rig	

State NM County Lea SHL Township 26S/35E Section 2 1,372' FWL 20' FNL FSL BHL **Township** 26S/35E Section 11 1,877' **FWL** 150' Surface Latitude **NAD 83** 32.079512 Surface Longitude **NAD 83** 103.342441 **Bottom Hole Lattitude** NAD 83 32.05094 **Bottom Hole Longitude NAD 83** 103.340782

KB

30'

Rig KB

3,120'

Formations	PROG SS	PROG TVD	Picked TVD	delta	Potential/Issues
Cenozoic Alluvium (surface)	3,120'	30'	30'	0	Sand/Gravels/unconsolidated
Rustler	2035.3	1,115'			Carbonates
Salado	1706.8	1,443'			Salt, Carbonate & Clastics
Base Salt	-1598.82	4,749'			Shaley Carbonate & Shale
Lamar	-1875.93	5,026'			Carbonate & Clastics
Bell Canyon	-2055.32	5,205'			Sandstone - oil/gas/water
Cherry Canyon	-2953.12	6,103'			Sandstone - oil/gas/water
Brushy Canyon	-4470.49	7,620'			Sand/carb/shales - oil/gas/water
Bone Spring Lime	-5860.75	9,011'			Shale/Carbonates - oil/gas
HZ Target at Landing	-6017.24	9,167'			Shale/Carbonates - oil/gas
Avalon Carb	-6074.15	9,224'			Shale/Carbonates - oil/gas

Target interval is expected to have an average apparent dip of ~0.0 degrees down along the lateral based on Avalon Carb structure

Target window tolerance is set at +/- 15'

Target Line: 9167' KBTVD @ 0' VS w/ 90.0° inc.
Offset Log: Tatanka Fed Com 803H (30025498830000)

Updated 3/7/2024

Ground Level

FME Geolog	iist		Ben Met	Z		bmetz@fme	nellc.com	
		Office		13.8590	Cell		3.513.8590	
FME Engine	eer							
Electric Logs					From		То	
	_							
Open-Hole	n/a							
MWD/LWD	MWD GR				Int 1 Co	sg. Point	TD	1
IVIVVD/LVVD	WWD GR				1111. 1 03	sg. i Ollit	10	'
Mud Log:								
drill out of surface ca	sina							
	10' samples ir	n vertical ar	nd through c	urve, 30' sar	nples in later	al		
	1 set dry sam	pies at foot	age rrequen	icy noted abo	ove			
Mud Gas:	Continuous							
Daily Contact:	Email distribu	ail distribution of mud log/daily report at 7:30am and 4:30 pm CST						
Daily Mud Log Email D	Distribution Li	st						
Final Mud Log Distribi	ution							
		Ben Kesse	l (bkessel@	fmellc.com)			email	
		Jenna Tav	ares (jtavar	es@fmellc.co	om)		email	
		,	bmetz@fm	ellc.com)			email	
Cuttings/Samples Ship	pment Inform	ation					ı	

REV: 1 D.P. 06-29-21

(ADD KOP, PPP POINTS & LEASE INFO.)

<u>District I</u> 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

UL or lot no. Section Township Range

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

X AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number	² Pool Code	³ Pool Name	³ Pool Name		
30-025-4986	97008	WC-025 G-08 S253534O; I	WC-025 G-08 S253534O; BONE SPRING		
4 Property Code	⁵ Pr	⁶ Well Number			
326125	TATAN	102H			
⁷ OGRID No.	⁸ O _I	⁹ Elevation			
373910	FRANKLIN MO	3121.7'			

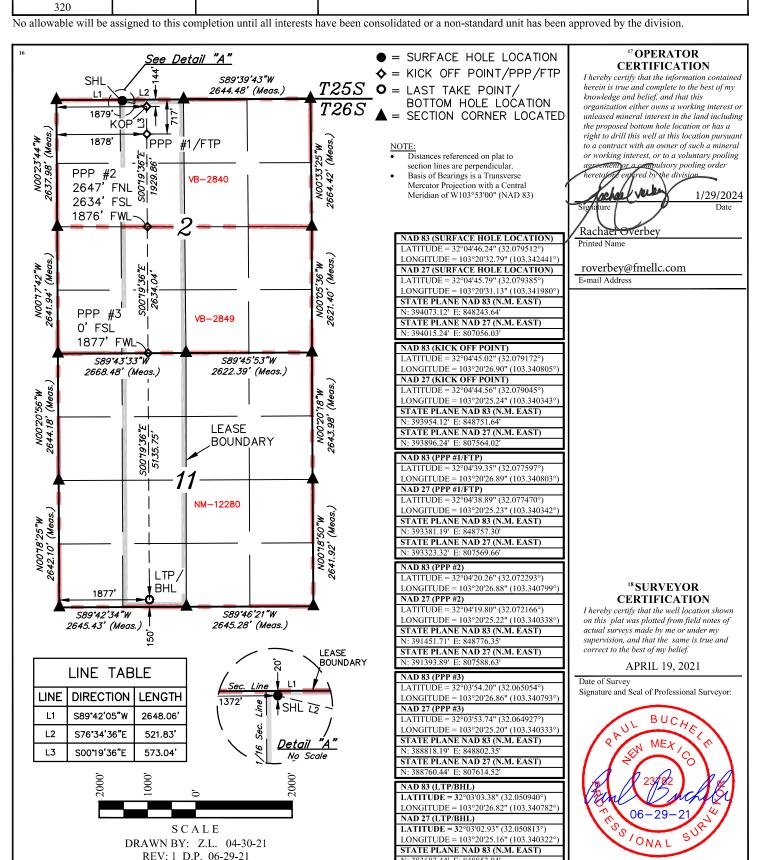
Surface Location

North/South line

Feet from the

Lot Idn

С	2	26S	35E		20	NORTH	1372	WEST	LEA
"Bottom Hole Location If Different From Surface									
UL or lot no. N	Section 11	Township 26S	Range 35E	Lot Idn	Feet from the 150	North/South line SOUTH	Feet from the 1877	East/West line WEST	County LEA



N: 383683.44' E: 848853.04' STATE PLANE NAD 27 (N.M. EAST)

383625.84' E: 807665.00'

Certificate Number

Released to Imaging: 3/18/2024 9:08:19 AM

Sundry Print Report

Report Page 24 of 57

U.S. Department of the Interior BUREAU OF LAND MANAGEMENT

Well Name: TATANKA FED COM Well Location: T26S / R35E / SEC 2 / County or Parish/State:

TR C /

Well Number: 102H Type of Well: OIL WELL Allottee or Tribe Name:

Lease Number: NMNM12280 Unit or CA Name: Unit or CA Number:

Well Status: Approved Application for

Permit to Drill

Operator: FRANKLIN MOUNTAIN ENERGY LLC

Notice of Intent

US Well Number: 3002549866

Sundry ID: 2779788

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 03/15/2024

Time Sundry Submitted: 11:27

Date proposed operation will begin: 03/15/2024

Procedure Description: Franklin Mountain Energy, LLC (FME), Operator, respectfully requests approval to make the following changes to the proposed drilling plan for the above referenced well: Target Change: FME requests approval to change the formation target for this well from 8,751' TVD (97779 - WC-025 G05 S253523H; DELAWARE) to 9,167' TVD (97088 - WC-025 G-08 S253534O; BONE SPRING). SHL remains the same: 20 FNL 1372 FWL Sec 2 T26S R35E BHL remains the same: 150 FSL 1877 FWL Sec 11 T26S R35E Change from 4-string to 3-string design: - Change Surface casing set depth to 1,130'. - Set 1st Intermediate casing at 5,222'. - Set Production casing at 19,235' - Change cement volumes. Please see attached revised C-102, directional plan, 14-point plan and geoprog.

NOI Attachments

Procedure Description

B02_Tatanka_Fed_Com_102H_Plan_03_v02_RPT_20240315112734.pdf

Tatanka_Fed_Com_102H_14PP_20240315112734.pdf

Tatanka_Fed_Com_102H_GEOPROG_REV1a_20240315112734.pdf

C 102 Tatanka Fed Com 102H Avalon 20240315112656.pdf

Received by OCD: NIFAGAGE 3 MANNAPHO COM

Well Location: T26S / R35E / SEC 2 / TR C /

County or Parish/State:

Page 25 of 57

Well Number: 102H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM12280

Unit or CA Name:

Unit or CA Number:

US Well Number: 3002549866

Well Status: Approved Application for

Permit to Drill

Operator: FRANKLIN MOUNTAIN ENERGY LLC

Operator

I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: RACHAEL OVERBEY
Signed on: MAR 15, 2024 11:27 AM

Name: FRANKLIN MOUNTAIN ENERGY LLC

Title: Director – Operations Planning and Regulatory

Street Address: 44 COOK STREET, SUITE 1000

City: Denver State: CO

Phone: (720) 414-7868

Email address: roverbey@fmellc.com

Field

Representative Name:

Street Address:

City: State: Zip:

Phone:

Email address:

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: Franklin Mountain Energy LLC
LEASE NO.: NMNM12280
LOCATION: Section 2, T.26 S., R.35 E., NMPM
COUNTY: Lea County, New Mexico
Sundry ID: 2779788

WELL NAME & NO.: Tatanka Fed Com 102H
SURFACE HOLE FOOTAGE: 20'/N & 1372'/W
BOTTOM HOLE FOOTAGE 150'/S & 1877'/W

COA

H2S	Yes	□ No	
Potash	None None	☐ Secretary	■ R-111-P
Cave/Karst Potential	Low	☐ Medium	☐ High
Cave/Karst Potential	Critical		
Variance	■ None	Flex Hose	C Other
Wellhead	Conventional	Multibowl	© Both
Wellhead Variance	☐ Diverter		
Other	✓ 4 String Area	Capitan Reef	□WIPP
Other	☐ Fluid Filled	□ Pilot Hole	☐ Open Annulus
Cementing	☐ Cement Squeeze	☐ EchoMeter	
Special Requirements	☐ Water Disposal	▼ COM	□ Unit
Special Requirements	☐ Break Testing	□ Offline	
Variance		Cementing	

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H2S) Drilling Plan shall be activated 500 feet prior to drilling into the **Strawn** formation. As a result, the Hydrogen Sulfide area must meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

B. CASING

- 1. The 13-3/8 inch surface casing shall be set at approximately 1110 feet (a minimum of 25 feet (Lea County) into the Rustler Anhydrite and above the salt) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall

be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.

- b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
- d. If cement falls back, remedial cementing will be done prior to drilling out that string.
- 2. The minimum required fill of cement behind the 9-5/8 inch intermediate casing is:

Option 1 (Single Stage):

• Cement to surface. If cement does not circulate see B.1.a, c-d above.

Option 2:

Operator has proposed a DV tool(s), the depth may be adjusted as long as the cement is changed proportionally. The DV tool(s) may be cancelled if cement circulates to surface on the first stage.

DV tool(s) shall be set a minimum of 50' below previous shoe and a minimum of 200' above current shoe. Operator shall contact the BLM if DV tool(s) depth cannot be set in this range. If an ECP is used, it is to be set a minimum of 50' below the shoe to provide cement across the shoe. If it cannot be set below the shoe, a CBL shall be run to verify cement coverage.

- a. First stage to DV tool(s): Cement to circulate. If cement does not circulate off the DV tool(s), contact the appropriate BLM office before proceeding with second stage cement job.
- b. Second stage above DV tool(s):
 - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.
- 3. The minimum required fill of cement behind the 5-1/2 inch production casing is:
 - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

C. PRESSURE CONTROL

1.

Option 1:

- a. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M)** psi.
- b. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the 9-5/8 intermediate casing shoe shall be 5000 (5M) psi.

Option 2:

- a. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the 13-3/8 inch surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 5000 (5M) psi.
 - i. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - ii. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
- iii. Manufacturer representative shall install the test plug for the initial BOP test.
- iv. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- v. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

• The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.

- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

GENERAL REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)
 - ✓ Lea CountyCall the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575)393-3612
- 1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.
- 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
- 3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator

can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.

- 2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
- 5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
- 6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
- 7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
- 8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.

- 2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
- 3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
- 4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.
 - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- 5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).

- b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the plug. However, **no tests** shall commence until the cement has had a minimum of 24 hours setup time, except the casing pressure test can be initiated immediately after bumping the plug (only applies to single stage cement jobs).
- c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
- d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- e. The results of the test shall be reported to the appropriate BLM office.
- f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

C. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

D. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

Form 3160-5 (June 2019)

UNITED STATES DEPARTMENT OF THE INTERIOR

FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 202

BUREAU OF LAND MANAGEMENT			5. Lease Serial No. NMNM12280		
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.			6. If Indian, Allottee or Tribe Name		
SUBMIT IN TRIPLICATE - Other instructions on page 2			7. If Unit of CA/Agreement, Name and/or No.		
1. Type of Well Oil Well Gas Well Other			8. Well Name and No. TATANKA FED COM/102H		
2. Name of Operator FRANKLIN MOUNTAIN ENERGY LLC			9. API Well No. 300	9. API Well No. 3002549866	
3a. Address 44 COOK STREET SUITE 1000, DENVER, CO 3b. Phone No. (include area code) (720) 414-7868				10. Field and Pool or Exploratory Area	
			AVALON, UPPER	AVALON, UPPER PENN, NORTH (GAS)/WC-025 G-05	
4. Location of Well (Footage, Sec., T.,R SEC 2/T26S/R35E/NMP		11. Country or Parish, State LEA/NM			
12. CHE	CK THE APPROPRIATE BOX(ES) TO INI	DICATE NATURE OF NO	TICE, REPORT OR OT	THER DATA	
TYPE OF SUBMISSION TYPE OF ACTION					
Notice of Intent Subsequent Report		aulic Fracturing Re	oduction (Start/Resume) eclamation ecomplete	Water Shut-Off Well Integrity Other	
			mporarily Abandon		
Final Abandonment Notice	Convert to Injection Plug		ater Disposal	and and annual involved densition themself IC	
completion of the involved operation completed. Final Abandonment Not is ready for final inspection.) Franklin Mountain Energy, LLC for the above referenced well: Target Change: FME requests DELAWARE) to 9,167' TVD (9) SHL remains the same: 20 FN	lepth to 1,130'. at 5,222'.	appletion or recompletion in s, including reclamation, has approval to make the for this well from 8,751	a new interval, a Form ave been completed and dlowing changes to the	3160-4 must be filed once testing has been the operator has detennined that the site e proposed drilling plan	
- Change cement volumes.					
Continued on page 3 additiona					
14. I hereby certify that the foregoing is true and correct. Name (<i>Printed/Typed</i>) RACHAEL OVERBEY / Ph: (720) 414-7868		þÿ Director Title	Operations F	Planning and Regulatory	
(Electronic Submission) Signature		Date	03/15/2024		
	THE SPACE FOR FEDE	ERAL OR STATE C	FICE USE		
Approved by					
		Title		Date	
Conditions of approval, if any, are attached. Approval of this notice does not warrant of certify that the applicant holds legal or equitable title to those rights in the subject leas which would entitle the applicant to conduct operations thereon.		t or			

Title 18 U.S.C Section 1001 and Title 43 U.S.C Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area or regional procedures and practices, are either shown below, will be issued by or may be obtained from the local Federal office.

SPECIFIC INSTRUCTIONS

Item 4 - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. If the proposal will involve **hydraulic fracturing operations**, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

The privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c)and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

(Form 3160-5, page 2)

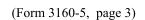
Additional Information

Additional Remarks

Please see attached revised C-102, directional plan, 14-point plan and geoprog.

Location of Well

0. SHL: TR C / 20 FNL / 1372 FWL / TWSP: 26S / RANGE: 35E / SECTION: 2 / LAT: 32.079512 / LONG: -103.342441 (TVD: 0 feet, MD: 0 feet) PPP: TR C / 717 FNL / 1878 FWL / TWSP: 26S / RANGE: 35E / SECTION: 2 / LAT: 32.077597 / LONG: -103.340803 (TVD: 8795 feet, MD: 9165 feet) PPP: SESW / 0 FSL / 1877 FWL / TWSP: 26S / RANGE: 35E / SECTION: 2 / LAT: 32.072293 / LONG: -103.340799 (TVD: 8795 feet, MD: 11100 feet) PPP: NENW / 0 FNL / 1877 FWL / TWSP: 26S / RANGE: 35E / SECTION: 11 / LAT: 32.065054 / LONG: -103.340793 (TVD: 8795 feet, MD: 13800 feet) BHL: TR N / 150 FSL / 1877 FWL / TWSP: 26S / RANGE: 35E / SECTION: 11 / LAT: 32.05094 / LONG: -103.340782 (TVD: 8795 feet, MD: 18863 feet)





Franklin Mountain Energy LLC

Lea County, NM(N83-NME3001)
Tatanka North_Pad 2 (Forge Core)
(B02) Tatanka Fed Com 102H - Slot (B02) TFC 102H
30-025-49866
102H

Plan: Plan 03 v02

Standard Planning Report

07 March, 2024



TZ USA 17.2 Database:

Franklin Mountain Energy LLC Company: Lea County, NM(N83-NME3001) Project: Site: Tatanka North_Pad 2 (Forge Core) (B02) Tatanka Fed Com 102H Well:

102H Wellbore: Plan 03 v02 Design:

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well (B02) Tatanka Fed Com 102H - Slot

179.43

(B02) TFC 102H 3120+30 @ 3150.00usft 3120+30 @ 3150.00usft

Grid

Minimum Curvature

Project Lea County, NM(N83-NME3001)

US State Plane 1983 Map System: Geo Datum: North American Datum 1983 Map Zone:

New Mexico Eastern Zone

Mean Sea Level System Datum:

0.00

Site Tatanka North_Pad 2 (Forge Core)

Northing: 394,147.27 usft Site Position: Latitude: 32.07971787 848,154.95 usft -103.34272514 Мар Easting: From: Longitude:

Position Uncertainty: 0.00 usft Slot Radius: 13-3/16 "

0.00

Well (B02) Tatanka Fed Com 102H - Slot (B02) TFC 102H

Well Position +N/-S 0.00 usft Northing: 394,073.12 usft Latitude: 32.07951183 +E/-W 0.00 usft 848,243.64 usft Longitude: -103.34244102 Easting:

Position Uncertainty 0.00 usft Wellhead Elevation: usft Ground Level: 3,120.00 usft

Grid Convergence: 0.53°

Wellbore 102H

Field Strength Magnetics **Model Name** Sample Date Declination Dip Angle (°) (°) (nT) IGRF2020 3/6/2024 6.11 59.71 47,148.84656129

Plan 03 v02 Design Audit Notes: PLAN 0.00 Version: Tie On Depth: Phase: Vertical Section: Depth From (TVD) +N/-S Direction +E/-W (usft) (usft) (usft) (°)

0.00

3/7/2024 **Plan Survey Tool Program** Date **Depth From** Depth To (usft) (usft) Survey (Wellbore) **Tool Name** Remarks 0.00 19,234.99 Plan 03 v02 (102H) MWD+IFR1+MS OWSG MWD + IFR1 + Multi-St



Database: TZ USA 17.2

Company: Franklin Mountain Energy LLC
Project: Lea County, NM(N83-NME3001)
Site: Tatanka North_Pad 2 (Forge Core)
Well: (B02) Tatanka Fed Com 102H

Wellbore: 102H
Design: Plan 03 v02

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well (B02) Tatanka Fed Com 102H - Slot

(B02) TFC 102H 3120+30 @ 3150.00usft 3120+30 @ 3150.00usft

Grid

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	
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,733.33	8.00	180.00	3,731.60	-37.17	0.00	1.50	1.50	0.00	180.00	
4,528.18	9.30	92.97	4,520.21	-96.02	64.34	1.50	0.16	-10.95	-128.66	
6,968.03	9.30	92.97	6,928.02	-116.41	457.91	0.00	0.00	0.00	0.00	
7,587.72	0.00	0.00	7,545.00	-119.00	508.00	1.50	-1.50	0.00	180.00	
8,636.76	0.00	0.00	8,594.04	-119.00	508.00	0.00	0.00	0.00	0.00	
9,536.76	90.00	179.43	9,167.00	-691.93	513.66	10.00	10.00	19.94	179.43	
19,234.99	90.00	179.43	9,167.00	-10,389.68	609.40	0.00	0.00	0.00	0.00	04-PBHL(TFC-102H)



Database: TZ USA 17.2

Company: Franklin Mountain Energy LLC
Project: Lea County, NM(N83-NME3001)
Site: Tatanka North_Pad 2 (Forge Core)
Well: (B02) Tatanka Fed Com 102H

Wellbore: 102H

Design: Plan 03 v02

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well (B02) Tatanka Fed Com 102H - Slot

(B02) TFC 102H 3120+30 @ 3150.00usft 3120+30 @ 3150.00usft

Grid

sigii.	1 1011 00 102								
anned 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
	uvium (surface)		100.00	0.00	0.00	0.00	2.00	0.00	0.00
100.00 200.00	0.00 0.00	0.00 0.00	100.00 200.00	0.00 0.00	0.00 0.00	0.00 0.00	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
400.00 500.00	0.00 0.00	0.00 0.00	400.00 500.00	0.00 0.00	0.00 0.00	0.00 0.00	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
1,115.00	0.00	0.00	1,115.00	0.00	0.00	0.00	0.00	0.00	0.00
Rustler									
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
1,443.00	0.00	0.00	1,443.00	0.00	0.00	0.00	0.00	0.00	0.00
Salado									
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
1,800.00	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
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00 2,500.00	0.00 0.00	0.00 0.00	2,400.00 2,500.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00 2,800.00	0.00 0.00	0.00 0.00	2,700.00 2.800.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	1.50	180.00	3,299.99	-1.31	0.00	1.31	1.50	1.50	0.00
3,400.00	3.00	180.00	3,399.91	-5.23	0.00	5.23	1.50	1.50	0.00
3,500.00	4.50	180.00	3,499.69	-11.77	0.00	11.77	1.50	1.50	0.00
3,600.00	6.00	180.00	3,599.27	-20.92	0.00	20.92	1.50	1.50	0.00
3,700.00	7.50	180.00	3,698.57	-32.68	0.00	32.68	1.50	1.50	0.00
3,733.33	8.00	180.00	3,731.60	-37.17	0.00	37.17	1.50	1.50	0.00
3,800.00	7.42	173.94	3,797.67	-46.09	0.45	46.09	1.50	-0.88	-9.09
3,900.00	6.73	163.09	3,896.91	-58.11	2.84	58.14 69.57	1.50	-0.69 0.40	-10.85
4,000.00	6.32	150.35	3,996.27	-68.50	7.27	68.57	1.50	-0.40	-12.75
4,100.00	6.26	136.63	4,095.67	-77.25	13.73	77.38	1.50	-0.06	-13.71
4,200.00	6.54	123.40	4,195.05	-84.34	22.23	84.56	1.50	0.29	-13.24
4,300.00 4,400.00	7.14 7.98	111.82 102.33	4,294.35 4,393.48	-89.79 -93.58	32.76 45.31	90.11 94.03	1.50 1.50	0.60 0.84	-11.58 -9.49
				-9.3.28	45.51	94 0.3	1.50	U 84	-9 49



Database: TZ USA 17.2

Company: Franklin Mountain Energy LLC
Project: Lea County, NM(N83-NME3001)
Site: Tatanka North_Pad 2 (Forge Core)
Well: (B02) Tatanka Fed Com 102H

Wellbore: 102H
Design: Plan 03 v02

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well (B02) Tatanka Fed Com 102H - Slot

(B02) TFC 102H 3120+30 @ 3150.00usft 3120+30 @ 3150.00usft

Grid

esign:	Plan 03 v02								
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)
4,528.18 4,600.00 4,700.00 4,760.01	9.30 9.30 9.30 9.30	92.97 92.97 92.97 92.97	4,520.21 4,591.09 4,689.77 4,749.00	-96.02 -96.62 -97.45 -97.95	64.34 75.93 92.06 101.74	96.65 97.37 98.36 98.96	1.50 0.00 0.00 0.00	1.09 0.00 0.00 0.00	-6.46 0.00 0.00 0.00
Base Salt			·						
4,800.00 4,900.00 5,000.00 5,040.70 Lamar	9.30 9.30 9.30 9.30	92.97 92.97 92.97 92.97	4,788.46 4,887.15 4,985.83 5,026.00	-98.29 -99.12 -99.96 -100.30	108.19 124.32 140.45 147.01	99.36 100.36 101.35 101.76	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
5,100.00 5,200.00	9.30 9.30	92.97 92.97	5,084.52 5,183.21	-100.80 -101.63	156.58 172.71	102.35 103.34	0.00 0.00	0.00 0.00	0.00 0.00
5,222.08	9.30	92.97	5,205.00	-101.82	176.27	103.56	0.00	0.00	0.00
5,300.00 5,400.00 5,500.00 5,500.00 5,600.00 5,700.00 5,800.00 5,900.00 6,000.00 6,100.00	9.30 9.30 9.30 9.30 9.30 9.30 9.30 9.30	92.97 92.97 92.97 92.97 92.97 92.97 92.97 92.97 92.97	5,281.90 5,380.58 5,479.27 5,577.96 5,676.64 5,775.33 5,874.02 5,972.70 6,071.39	-102.47 -103.30 -104.14 -104.97 -105.81 -106.64 -107.48 -108.32 -109.15	188.84 204.97 221.10 237.23 253.37 269.50 285.63 301.76 317.89	104.34 105.34 106.33 107.33 108.32 109.32 110.32 111.31 112.31	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
6,132.03	9.30	92.97	6,103.00	-109.42	323.06	112.63	0.00	0.00	0.00
Cherry Canyo	on								
6,200.00 6,300.00 6,400.00 6,500.00	9.30 9.30 9.30 9.30	92.97 92.97 92.97 92.97	6,170.08 6,268.76 6,367.45 6,466.14	-109.99 -110.82 -111.66 -112.49	334.02 350.15 366.28 382.41	113.30 114.30 115.30 116.29	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
6,600.00 6,700.00 6,800.00 6,900.00 6,968.03	9.30 9.30 9.30 9.30 9.30	92.97 92.97 92.97 92.97 92.97	6,564.82 6,663.51 6,762.20 6,860.88 6,928.02	-113.33 -114.17 -115.00 -115.84 -116.41	398.54 414.67 430.80 446.94 457.91	117.29 118.29 119.28 120.28 120.95	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
7,000.00 7,100.00 7,200.00 7,300.00	8.82 7.32 5.82 4.32	92.97 92.97 92.97 92.97	6,959.59 7,058.60 7,157.94 7,257.55	-116.67 -117.39 -117.98 -118.44	462.93 476.95 488.37 497.18	121.27 122.13 122.84 123.38	1.50 1.50 1.50 1.50	-1.50 -1.50 -1.50 -1.50	0.00 0.00 0.00 0.00
7,400.00 7,500.00 7,587.72 7,600.00 7,662.72	2.82 1.32 0.00 0.00 0.00	92.97 92.97 0.00 0.00 0.00	7,357.35 7,457.28 7,545.00 7,557.28 7,620.00	-118.76 -118.95 -119.00 -119.00 -119.00	503.39 506.99 508.00 508.00 508.00	123.76 123.99 124.05 124.05 124.05	1.50 1.50 1.50 0.00 0.00	-1.50 -1.50 -1.50 0.00 0.00	0.00 0.00 0.00 0.00 0.00
Brushy Cany		0.00	.,.20.00		200.00	.200	3.33	0.00	0.00
7,700.00	0.00	0.00	7,657.28	-119.00	508.00	124.05	0.00	0.00	0.00
7,800.00 7,900.00 8,000.00 8,100.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	7,757.28 7,857.28 7,957.28 8,057.28	-119.00 -119.00 -119.00 -119.00	508.00 508.00 508.00 508.00	124.05 124.05 124.05 124.05	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
8,200.00 8,300.00 8,337.72	0.00 0.00 0.00	0.00 0.00 0.00	8,157.28 8,257.28 8,295.00	-119.00 -119.00 -119.00	508.00 508.00 508.00	124.05 124.05 124.05	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00



Database: TZ USA 17.2

Company: Franklin Mountain Energy LLC
Project: Lea County, NM(N83-NME3001)
Site: Tatanka North_Pad 2 (Forge Core)
Well: (B02) Tatanka Fed Com 102H

Wellbore: 102H
Design: Plan 03 v02

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well (B02) Tatanka Fed Com 102H - Slot

(B02) TFC 102H 3120+30 @ 3150.00usft 3120+30 @ 3150.00usft

Grid

n:	Plan 03 v02								
ed 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)
00-KOP(TF	C-102H)								
8,400.00	•	0.00	8,357.28	-119.00	508.00	124.05	0.00	0.00	0.00
8,500.00		0.00	8,457.28	-119.00	508.00	124.05	0.00	0.00	0.00
8,600.00		0.00	8,557.28	-119.00	508.00	124.05	0.00	0.00	0.00
0,000.00	0.00	0.00	0,557.20	-113.00	300.00	124.00	0.00	0.00	0.00
8,636.76	0.00	0.00	8,594.04	-119.00	508.00	124.05	0.00	0.00	0.00
KOP: 8636	.76' MD/ 124.05' V								
8,650.00	1.32	179.43	8,607.28	-119.15	508.00	124.20	10.00	10.00	0.00
8,700.00	6.32	179.43	8,657.15	-122.49	508.03	127.53	10.00	10.00	0.00
8,750.00	11.32	179.43	8,706.54	-130.15	508.11	135.20	10.00	10.00	0.00
8,800.00	16.32	179.43	8,755.08	-142.10	508.23	147.14	10.00	10.00	0.00
0.050.00	24.22	170.42	0 000 00	150.00	E00 20	162.07	10.00	10.00	0.00
8,850.00 8,900.00		179.43	8,802.39	-158.22	508.39	163.27	10.00	10.00	0.00
		179.43	8,848.11	-178.41	508.59	183.46	10.00	10.00	0.00
8,950.00		179.43	8,891.90	-202.51	508.82	207.56	10.00	10.00	0.00
9,000.00		179.43	8,933.43	-230.33	509.10	235.38	10.00	10.00	0.00
9,050.00	41.32	179.43	8,972.37	-261.66	509.41	266.72	10.00	10.00	0.00
9,100.00	46.32	179.43	9,008.43	-296.27	509.75	301.33	10.00	10.00	0.00
9,103.73		179.43	9,011.00	-298.98	509.78	304.04	10.00	10.00	0.00
Bone Sprir			,						
9.150.00	51.32	179.43	9,041.34	-333.89	510.12	338.95	10.00	10.00	0.00
9,200.00		179.43	9,070.85	-374.24	510.12	379.30	10.00	10.00	0.00
9,250.00		179.43	9,096.72	-417.00	510.94	422.07	10.00	10.00	0.00
9,250.00	01.32	179.43	9,090.72	-417.00	310.94		10.00	10.00	0.00
9,300.00	66.32	179.43	9,118.77	-461.86	511.38	466.92	10.00	10.00	0.00
9,350.00	71.32	179.43	9,136.83	-508.47	511.85	513.53	10.00	10.00	0.00
9,400.00	76.32	179.43	9,150.75	-556.47	512.32	561.54	10.00	10.00	0.00
9,450.00	81.32	179.43	9,160.44	-605.50	512.80	610.57	10.00	10.00	0.00
9,500.00	86.32	179.43	9,165.82	-655.19	513.29	660.27	10.00	10.00	0.00
9,536.76	90.00	179.43	9,167.00	-691.93	513.66	697.01	10.00	10.00	0.00
	.76' MD/ 697.00' V					037.01	10.00	10.00	0.00
9,600.00		179.43	9,167.00	-755.16	514.28	760.24	0.00	0.00	0.00
9,700.00		179.43 179.43	9,167.00	-855.16 055.15	515.27 516.26	860.24 960.24	0.00	0.00	0.00
9,800.00		179.43	9,167.00	-955.15	516.26		0.00	0.00	0.00 0.00
9,900.00	90.00	179.43	9,167.00	-1,055.15	517.24	1,060.24	0.00	0.00	0.00
10,000.00	90.00	179.43	9,167.00	-1,155.14	518.23	1,160.24	0.00	0.00	0.00
10,100.00	90.00	179.43	9,167.00	-1,255.14	519.22	1,260.24	0.00	0.00	0.00
10,200.00	90.00	179.43	9,167.00	-1,355.13	520.20	1,360.24	0.00	0.00	0.00
10,300.00	90.00	179.43	9,167.00	-1,455.13	521.19	1,460.24	0.00	0.00	0.00
10,400.00	90.00	179.43	9,167.00	-1,555.12	522.18	1,560.24	0.00	0.00	0.00
			*						
10,500.00		179.43	9,167.00	-1,655.12	523.17	1,660.24	0.00	0.00	0.00
10,600.00		179.43	9,167.00	-1,755.11	524.15	1,760.24	0.00	0.00	0.00
10,700.00		179.43	9,167.00	-1,855.11	525.14	1,860.24	0.00	0.00	0.00
10,800.00		179.43	9,167.00	-1,955.10	526.13	1,960.24	0.00	0.00	0.00
10,900.00	90.00	179.43	9,167.00	-2,055.10	527.11	2,060.24	0.00	0.00	0.00
11,000.00	90.00	179.43	9,167.00	-2,155.10	528.10	2,160.24	0.00	0.00	0.00
11,100.00		179.43	9,167.00	-2,255.09	529.09	2,260.24	0.00	0.00	0.00
11,200.00		179.43	9,167.00	-2,355.09	530.08	2,360.24	0.00	0.00	0.00
11,300.00		179.43	9,167.00	-2,455.08	531.06	2,460.24	0.00	0.00	0.00
11,400.00		179.43	9,167.00	-2,555.08	532.05	2,560.24	0.00	0.00	0.00
11,466.34	90.00	179.43	9,167.00	-2,621.41	532.71	2,626.58	0.00	0.00	0.00
02-PPP2(T	FC-102H)								
11,500.00	•	179.43	9,167.00	-2,655.07	533.04	2,660.24	0.00	0.00	0.00
11,600.00		179.43	9,167.00	-2,755.07	534.03	2,760.24	0.00	0.00	0.00
11,700.00		179.43	9,167.00	-2,855.06	535.01	2,860.24	0.00	0.00	0.00



Database: TZ USA 17.2

Company: Franklin Mountain Energy LLC
Project: Lea County, NM(N83-NME3001)
Site: Tatanka North_Pad 2 (Forge Core)
Well: (B02) Tatanka Fed Com 102H

Wellbore: 102H

Design: Plan 03 v02

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well (B02) Tatanka Fed Com 102H - Slot

(B02) TFC 102H 3120+30 @ 3150.00usft 3120+30 @ 3150.00usft

Grid

esign:	Plan 03 v02								
lanned 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)
11,800.00	90.00	179.43	9,167.00	-2,955.06	536.00	2,960.24	0.00	0.00	0.00
11,900.00	90.00	179.43	9,167.00	-3,055.05	536.99	3,060.24	0.00	0.00	0.00
12,000.00	90.00	179.43	9,167.00	-3,155.05	537.97	3,160.24	0.00	0.00	0.00
12,100.00	90.00	179.43	9,167.00	-3,255.04	538.96	3,260.24	0.00	0.00	0.00
12,200.00	90.00	179.43	9,167.00	-3,355.04	539.95	3,360.24	0.00	0.00	0.00
12,300.00	90.00	179.43	9,167.00	-3,455.03	540.94	3,460.24	0.00	0.00	0.00
12,400.00	90.00	179.43	9,167.00	-3,555.03	541.92	3,560.24	0.00	0.00	0.00
12,500.00	90.00	179.43	9,167.00	-3,655.02	542.91	3,660.24	0.00	0.00	0.00
12,600.00	90.00	179.43	9,167.00	-3,755.02	543.90	3,760.24	0.00	0.00	0.00
12,700.00	90.00	179.43	9,167.00	-3,855.01	544.88	3,860.24	0.00	0.00	0.00
12,800.00	90.00	179.43	9,167.00	-3,955.01	545.87	3,960.24	0.00	0.00	0.00
12,900.00	90.00	179.43	9,167.00	-4,055.00	546.86	4,060.24	0.00	0.00	0.00
13,000.00	90.00	179.43	9,167.00	-4,155.00	547.85	4,160.24	0.00	0.00	0.00
13,100.00	90.00	179.43	9,167.00	-4,254.99	548.83	4,260.24	0.00	0.00	0.00
13,200.00	90.00	179.43	9,167.00	-4,354.99	549.82	4,360.24	0.00	0.00	0.00
13,300.00	90.00	179.43	9,167.00	-4,454.98	550.81	4,460.24	0.00	0.00	0.00
13,400.00	90.00	179.43	9,167.00	-4,554.98	551.80	4,560.24	0.00	0.00	0.00
13,500.00	90.00	179.43	9,167.00	-4,654.97	552.78	4,660.24	0.00	0.00	0.00
13,600.00	90.00	179.43	9,167.00	-4,754.97	553.77	4,760.24	0.00	0.00	0.00
13,700.00	90.00	179.43	9,167.00	-4,854.96	554.76	4,860.24	0.00	0.00	0.00
13,800.00	90.00	179.43	9,167.00	-4,954.96	555.74	4,960.24	0.00	0.00	0.00
13,900.00	90.00	179.43	9,167.00	-5,054.95	556.73	5,060.24	0.00	0.00	0.00
14,000.00	90.00	179.43	9,167.00	-5,154.95	557.72	5,160.24	0.00	0.00	0.00
14,099.99	90.00	179.43	9,167.00	-5,254.93	558.71	5,260.23	0.00	0.00	0.00
03-PPP3(TF			2,12112	-,		-,			
14,100.00	90.00	179.43	9,167.00	-5,254.94	558.71	5,260.24	0.00	0.00	0.00
14,200.00	90.00	179.43	9,167.00	-5,354.94	559.69	5,360.24	0.00	0.00	0.00
14,300.00	90.00	179.43	9,167.00	-5,454.93	560.68	5,460.24	0.00	0.00	0.00
14,400.00	90.00	179.43	9,167.00	-5,554.93	561.67	5,560.24	0.00	0.00	0.00
14,500.00	90.00	179.43	9,167.00	-5,654.92	562.65	5,660.24	0.00	0.00	0.00
14,600.00	90.00	179.43	9,167.00	-5,754.92	563.64	5,760.24	0.00	0.00	0.00
14,700.00	90.00	179.43	9,167.00	-5,854.91	564.63	5,860.24	0.00	0.00	0.00
14,800.00	90.00	179.43	9,167.00	-5,954.91	565.62	5,960.24	0.00	0.00	0.00
14,900.00 15,000.00	90.00	179.43	9,167.00	-6,054.91	566.60	6,060.24	0.00	0.00	0.00
*	90.00	179.43	9,167.00	-6,154.90	567.59	6,160.24	0.00	0.00	0.00
15,100.00 15,200.00	90.00 90.00	179.43 179.43	9,167.00 9,167.00	-6,254.90 -6,354.89	568.58 569.57	6,260.24 6,360.24	0.00 0.00	0.00 0.00	0.00 0.00
,									
15,300.00	90.00	179.43	9,167.00	-6,454.89	570.55	6,460.24	0.00	0.00	0.00
15,400.00	90.00	179.43	9,167.00	-6,554.88	571.54	6,560.24	0.00	0.00	0.00
15,500.00	90.00	179.43	9,167.00	-6,654.88	572.53	6,660.24	0.00	0.00	0.00
15,600.00	90.00	179.43	9,167.00	-6,754.87	573.51	6,760.24	0.00	0.00	0.00
15,700.00	90.00	179.43	9,167.00	-6,854.87	574.50	6,860.24	0.00	0.00	0.00
15,800.00	90.00	179.43	9,167.00	-6,954.86	575.49	6,960.24	0.00	0.00	0.00
15,900.00	90.00	179.43	9,167.00	-7,054.86	576.48	7,060.24	0.00	0.00	0.00
16,000.00	90.00	179.43	9,167.00	-7,154.85	577.46	7,160.24	0.00	0.00	0.00
16,100.00	90.00	179.43	9,167.00	-7,254.85	578.45	7,260.24	0.00	0.00	0.00
16,200.00	90.00	179.43	9,167.00	-7,354.84	579.44	7,360.24	0.00	0.00	0.00
16,300.00	90.00	179.43	9,167.00	-7,454.84	580.42	7,460.24	0.00	0.00	0.00
16,400.00	90.00	179.43	9,167.00	-7,554.83	581.41	7,560.24	0.00	0.00	0.00
16,500.00	90.00	179.43	9,167.00	-7,654.83	582.40	7,660.24	0.00	0.00	0.00
16,600.00	90.00	179.43	9,167.00	-7,754.82	583.39	7,760.24	0.00	0.00	0.00
16,700.00	90.00	179.43	9,167.00	-7,854.82	584.37	7,860.24	0.00	0.00	0.00



Database: TZ USA 17.2

Company: Franklin Mountain Energy LLC
Project: Lea County, NM(N83-NME3001)
Site: Tatanka North_Pad 2 (Forge Core)
Well: (B02) Tatanka Fed Com 102H

Wellbore: 102H
Design: Plan 03 v02

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well (B02) Tatanka Fed Com 102H - Slot

(B02) TFC 102H 3120+30 @ 3150.00usft 3120+30 @ 3150.00usft

Grid

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)
16,800.00	90.00	179.43	9,167.00	-7,954.81	585.36	7,960.24	0.00	0.00	0.00
16,900.00	90.00	179.43	9,167.00	-8,054.81	586.35	8,060.24	0.00	0.00	0.00
17,000.00	90.00	179.43	9,167.00	-8,154.80	587.34	8,160.24	0.00	0.00	0.00
17,100.00	90.00	179.43	9,167.00	-8,254.80	588.32	8,260.24	0.00	0.00	0.00
17,200.00	90.00	179.43	9,167.00	-8,354.79	589.31	8,360.24	0.00	0.00	0.00
17,300.00	90.00	179.43	9,167.00	-8,454.79	590.30	8,460.24	0.00	0.00	0.00
17,400.00	90.00	179.43	9,167.00	-8,554.78	591.28	8,560.24	0.00	0.00	0.00
17,500.00	90.00	179.43	9,167.00	-8,654.78	592.27	8,660.24	0.00	0.00	0.00
17,600.00	90.00	179.43	9,167.00	-8,754.77	593.26	8,760.24	0.00	0.00	0.00
17,700.00	90.00	179.43	9,167.00	-8,854.77	594.25	8,860.24	0.00	0.00	0.00
17,800.00	90.00	179.43	9,167.00	-8,954.76	595.23	8,960.24	0.00	0.00	0.00
17,900.00	90.00	179.43	9,167.00	-9,054.76	596.22	9,060.24	0.00	0.00	0.00
18,000.00	90.00	179.43	9,167.00	-9,154.75	597.21	9,160.24	0.00	0.00	0.00
18,100.00	90.00	179.43	9,167.00	-9,254.75	598.20	9,260.24	0.00	0.00	0.00
18,200.00	90.00	179.43	9,167.00	-9,354.74	599.18	9,360.24	0.00	0.00	0.00
18,300.00	90.00	179.43	9,167.00	-9,454.74	600.17	9,460.24	0.00	0.00	0.00
18,400.00	90.00	179.43	9,167.00	-9,554.73	601.16	9,560.24	0.00	0.00	0.00
18,500.00	90.00	179.43	9,167.00	-9,654.73	602.14	9,660.24	0.00	0.00	0.00
18,600.00	90.00	179.43	9,167.00	-9,754.73	603.13	9,760.24	0.00	0.00	0.00
18,700.00	90.00	179.43	9,167.00	-9,854.72	604.12	9,860.24	0.00	0.00	0.00
18,800.00	90.00	179.43	9,167.00	-9,954.72	605.11	9,960.24	0.00	0.00	0.00
18,900.00	90.00	179.43	9,167.00	-10,054.71	606.09	10,060.24	0.00	0.00	0.00
19,000.00	90.00	179.43	9,167.00	-10,154.71	607.08	10,160.24	0.00	0.00	0.00
19,100.00	90.00	179.43	9,167.00	-10,254.70	608.07	10,260.24	0.00	0.00	0.00
19,200.00	90.00	179.43	9,167.00	-10,354.70	609.05	10,360.24	0.00	0.00	0.00
19,234.99	90.00	179.43	9,167.00	-10,389.68	609.40	10,395.23	0.00	0.00	0.00

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
00-KOP(TFC-102H) - plan hits target center	0.00 ter	0.00	8,295.00	-119.00	508.00	393,954.12	848,751.64	32.07917191	-103.34080461
02-PPP2(TFC-102H) - plan hits target cen - Point	0.00 ter	0.00	9,167.00	-2,621.41	532.71	391,451.71	848,776.35	32.07229327	-103.34079917
03-PPP3(TFC-102H) - plan hits target cen - Point	0.00 ter	0.00	9,167.00	-5,254.93	558.71	388,818.19	848,802.35	32.06505422	-103.34079343
04-PBHL(TFC-102H) - plan hits target cen - Point	0.00 ter	0.00	9,167.00	-10,389.68	609.40	383,683.44	848,853.04	32.05093975	-103.34078223
01-T98(TFC-102H) - plan hits target cen - Point	0.00 ter	0.00	9,167.00	-691.93	513.66	393,381.19	848,757.30	32.07759704	-103.34080336



Database: TZ USA 17.2

Company: Franklin Mountain Energy LLC
Project: Lea County, NM(N83-NME3001)
Site: Tatanka North_Pad 2 (Forge Core)
Well: (B02) Tatanka Fed Com 102H

 Wellbore:
 102H

 Design:
 Plan 03 v02

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well (B02) Tatanka Fed Com 102H - Slot

(B02) TFC 102H 3120+30 @ 3150.00usft 3120+30 @ 3150.00usft

Grid

Formations							
	Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
	30.00	30.00	Cenozoic Alluvium (surface)				
	1,115.00	1,115.00	Rustler				
	1,443.00	1,443.00	Salado				
	4,760.01	4,749.00	Base Salt				
	5,040.70	5,026.00	Lamar				
	5,222.08	5,205.00	Bell Canyon				
	6,132.03	6,103.00	Cherry Canyon				
	7,662.72	7,620.00	Brushy Canyon				
	9,103.73	9,011.00	Bone Spring Lime				
	9,536.76	9,167.00	HZ Target at Landing				

Plan Annotat	ions				
	Measured Depth (usft)	Vertical Depth (usft)	Local Coord +N/-S (usft)	dinates +E/-W (usft)	Comment
	8,636.76 9,536.76 19,234.99	8,594.04 9,167.00 9,167.00	-119.00 -691.93 -10,389.68	508.00 513.66 609.40	KOP: 8636.76' MD/ 124.05' VS/8594.04' TVD EOC: 9536.76' MD/ 697.00' VS/9167.00' TVD TD: 19234.99' MD/ 10395.23' VS/9167.00' TVD



Tatanka Fed Com 102H

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)	3,120'	30'	30'	0	Sand/Gravels/unconsolidated
Rustler	2035.3	1,115'			Carbonates
Salado	1706.8	1,443'			Salt, Carbonate & Clastics
Base Salt	-1598.82	4,749'			Shaley Carbonate & Shale
Lamar	-1875.93	5,026'			Carbonate & Clastics
Bell Canyon	-2055.32	5,205'			Sandstone - oil/gas/water
Cherry Canyon	-2953.12	6,103'			Sandstone - oil/gas/water
Brushy Canyon	-4470.49	7,620'			Sand/carb/shales - oil/gas/water
Bone Spring Lime	-5860.75	9,011'			Shale/Carbonates - oil/gas
HZ Target at Landing	-6017.24	9,167'			Shale/Carbonates - oil/gas
Avalon Carb	-6074.15	9,224'			Shale/Carbonates - oil/gas

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

Upper Permian Sands	0-400'	Fresh Water
Delaware Sands	5,222'	Oil
Avalon	9,224'	Oil
Bone Spring	N/A	Oil
Wolfcamp	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 13.375 casing at 1,130' and circulating cement back to surface.

4. Casing Program:

All casing strings will be run new. Safety factors calculated assuming the well is vertical.

Casing string	Weight	Grade Burst	Duret	ırst Collapse	Tension	Conn	Length		1.92 5.28 1.73 2.97		r
Casing string	Meight	Grade	Burst	Collapse	rension	Colli	Lengui	Burst	Collapse	Tension	Coupling
						BTC					
Surface 13 3/8"	54.5	J-55	2730	1130	853	909	1,130	1.24	1.92	5.28	5.63
						BTC					
Intermediate 9 5/8"	40	HCL-80	7430	4230	916	1042	5,222	1.76	1.73	2.97	3.37
						Eagle					
Long string 5 1/2"	23	P-110	14520	14520	729	606	19,235	1.32	1.61	1.34	1.12
							9,167				1.95

Stress calculations on 5.5 casing performed assuming 19,235' depth. Actual max vertical depth is 9,167'.

Cementing Program:

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



String	Hole	Cas	sing	Lead							Tail			
Туре	Size	Size	Setting	Sacks	Type of cmt	Yield	Water	TOC	Sacks	Type of cm t	Yield	Water	TOC	Excess
			Depth			ft3/sk	gal/sk	ft			ft3/sk	gal/sk		
Surf	17.5	Shoe	1,130	660	Extenda Cem, 13.5	1.747	9.06	0	335	Tail, 14.8 ppg, Class	1349	6.51	830	100%
		Track			ppg Class C, 3lb/sk					С,				
					Kol-Seal									
					0.125 pps Poly-E-					1% CaCl2,				
					Flake					0.125 pps Celo-				
										Flake				
Int	12.25	Shoe	5,222	1921	Lead, 12.8 ppg, Class	1.45	6.9	0	149	Tail, 14.8 ppg, Class	1.33	6.3	4,922	100%
		Track			C, 5% Salt					С,				
					0.125 pps Poly-E-					0.1% HR 800 .125				
					Flake, 3lb/sk Kol-Seal					pps Poly-E-Flake				
Prod	8.75/	Shoe	19,235	292		5.1	25.51	4,722	1544	Tail, 13.5 ppg, Class	1.43	6.87	8,637	20%
	7.875	Track			HSLD 9420, 10.5					HSLD 82H; 0.4%				
					ppg, Class C, 1#/sk					CFL-2; 4% STE;				
					Salt, 4% STE					0.07% CSA-1000;				
					1% C-45					.29#/sk Salt;				
										.29#/sk Gypseal				
										siyok oypoddi				

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 $\frac{1}{2}$ " 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 5,000/250 psig. The surface casing will be tested for 30 minutes to 0.22 psi/ft or 1500 psi, whichever is greater, but not to exceed 70% of Internal yield.

Before drilling out of the intermediate 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 intermediate casing will be for 30 minutes to 0.22 psi/ft or 1500 psi, whichever is greater, but not to exceed 70% of Internal yield prior to drill-out.

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.



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	Туре	Weight (ppg)	Viscosity	Water Loss
0 – 1,130'	Fresh - Gel	8.6-8.8	28-34	N/c
1,130′ –5,200′	Brine	8.8-10.2	28-34	N/c
5,200' –19,235' Lateral	Brine or OBM	8.8-10.0	28-68	3 – N/c

The highest mud weight needed to balance formation is expected to be 8.8-10 ppg. In order to maintain hole stability, mud weights up to 10.5 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 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 9,167' TVD (deepest point of the well) is 160°F with an estimated maximum bottom-hole pressure (BHP) at the same point of 4,528 psig (based on 9.5 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 100' 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
 - 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
 - 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.
 - ii. 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.

Franklin Mountain Energy has conducted a review of offset operated wells to determine if an H2S contingency plan is required for the proposed well. 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:

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. The 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 be 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, as per Onshore Order No. 2

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

The multi-bowl wellhead will be installed by vendor's representative(s). A copy of the installation instructions for the Cactus Multi-Bowl WH system has been sent to the BLM office in Carlsbad.

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 intermediate string the pack-off and lower flanges will be pressure tested to 5,000 psi.

Both the surface and intermediate casing strings will be tested as per Onshore Order No. 2 to at least 0.22 psi/ft or 1,500 psi, whichever is greater.

14. Additional variance requests

- A. Casing.
 - a. Variance is requested to waive the centralizer requirements for the 5-1/2" casing due to the tight clearance with 7-7/8" hole and 5-1/2" casing.

FRANKLIN MOUNTAIN

ENERGY

Geologic Prognosis

Well Name	Tatanka Fed Com 102H
Operator	Franklin Mountain Energy, LLC
Project Area	Avalon
Well Type	10,000' Avalon Lateral
API	
Permit Number	
Rig	

State	NM	County	Lea									
SHL	Township	26S/35E	Section	2	1,372'	FWL	20'	FNL				
BHL	Township	26S/35E	Section	11	1,877'	FWL	150'	FSL				
Surface Lat	itude		NAD 83	32.079512								
Surface Lor	ngitude		NAD 83			103.3424	41					
Bottom Hol	e Lattitude		NAD 83	32.05094								
Bottom Hol	e Longitud	le	NAD 83			103.3407	82					
Ground Lev	rel .		3,120'	Rig KB	30'	KB	3,150'					
			0,.20	J			2,1.2.					

Formations	PROG SS	PROG TVD	Picked TVD	delta	Potential/Issues
Cenozoic Alluvium (surface)	3,120'	30'	30'	0	Sand/Gravels/unconsolidated
Rustler	2035.3	1,115'			Carbonates
Salado	1706.8	1,443'			Salt, Carbonate & Clastics
Base Salt	-1598.82	4,749'			Shaley Carbonate & Shale
Lamar	-1875.93	5,026'			Carbonate & Clastics
Bell Canyon	-2055.32	5,205'			Sandstone - oil/gas/water
Cherry Canyon	-2953.12	6,103'			Sandstone - oil/gas/water
Brushy Canyon	-4470.49	7,620'			Sand/carb/shales - oil/gas/water
Bone Spring Lime	-5860.75	9,011'			Shale/Carbonates - oil/gas
HZ Target at Landing	-6017.24	9,167'			Shale/Carbonates - oil/gas
Avalon Carb	-6074.15	9,224'			Shale/Carbonates - oil/gas

Target interval is expected to have an average apparent dip of ∼0.0 degrees down along the lateral based on Avalon Carb structure

Target window tolerance is set at +/- 15'

Target Line: 9167' KBTVD @ 0' VS w/ 90.0° inc. Offset Log: Tatanka Fed Com 803H (30025498830000)

Updated 3/7/2024

FME Geolog	jist		Ben Metz	<u>7</u>		bmetz@fme	ellc.com						
		Office		13.8590	Cell		3.513.8590						
FME Engine	er												
Electric Logs					From		То						
Liourio Logo					1								
Open-Hole	n/a												
					_								
MWD/LWD	MWD GR				Int. 1 Cs	sg. Point	TD						
						J							
Mud Log:													
drill out of surface ca	sing 10' samples ir	vortical on	d through a	uruo 20' oor	malaa in latar	ol.							
						aı							
		dry samples at footage frequency noted above											
Mud Gas:	Continuous	inuous											
Daily Contact:	Email distribu	tion of mud	log/daily re	port at 7:30a	m and 4:30 բ	om CST							
Daily Mud Log Email D	Nictribution Li	int											
Dany maa 20g Eman 2	Journal Com L.												
Final Mud Log Distribu	ution												
3													
		Ben Kesse	l (bkessel@	fmellc.com)			email						
		Jenna Tava	ares (jtavare	es@fmellc.co	om)		email						
		,	bmetz@fme	ellc.com)			email						
Cuttings/Samples Ship	pment Inform	ation											

<u>District I</u> 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

X AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

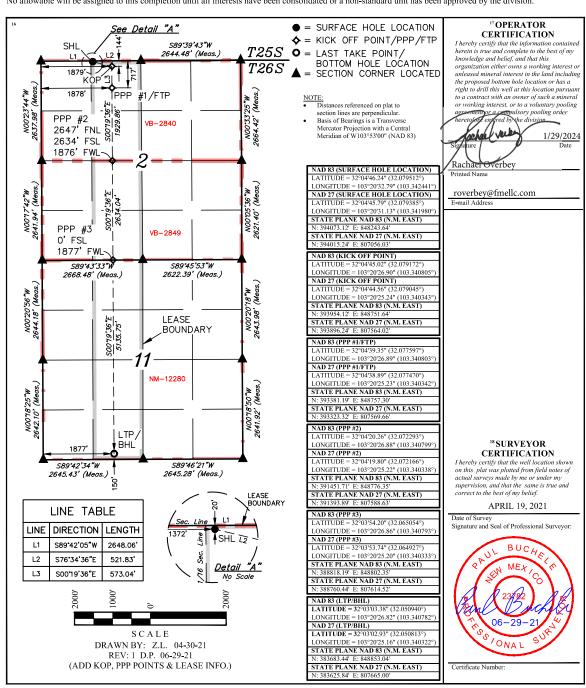
¹ API Number 30-025-4986	² Pool Code 97008	BONE SPRING	
4 Property Code 326125		roperty Name NKA FED COM	⁶ Well Number 102H
⁷ OGRID №. 373910		perator Name DUNTAIN ENERGY LLC	⁹ Elevation 3121.7'

Surface Location

UL or lot no. C	Section 2	Township 26S	Range 35E	Lot Idn	Feet from the 20	North/South line NORTH	Feet from the 1372	East/West line WEST	County LEA	l
			n.	Bottom H	ole Location I	f Different From	Surface			

UL or lot no. N	Section 11		Township 26S	Range 35E	Lot Idn Fe		eet from the 150	North/South line SOUTH	Feet from the 1877	East/West line WEST	County LEA
12 Dedicated Acre 320	es 1	3 Joir	nt or Infill	14 Conso	lidation 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.



Tatanka Fed Com 102H

13 3/8	S	urface csg in a	17 1/2	inch hole.		Design I	Factors			Surfac	e	
Segment	#/ft	Grade		Coupling	Body	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	54.50		j 55	btc	14.10	2.23	0.99	1,110	6	1.69	4.29	60,495
"B"				btc				0				0
	w/8.	4#/g mud, 30min Sfc Csg Test psi	g: 1,427	Tail Cmt	does not	circ to sfc.	Totals:	1,110	_			60,495
Comparison of	of Proposed to	Minimum Required Cemen	t Volumes									
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Req'd				Min Dist
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE				Hole-Cplg
17 1/2	0.6946	995	1605	771	108	8.80	1618	2M				1.56
Burst Frac Grad	dient(s) for Seg	gment(s) A, B = , b $AII > 0.7$	0, OK.									
									_			

9 5/8	casin	g inside the	13 3/8			Design I	Factors		-	Int 1	,	
Segment	#/ft	Grade		Coupling	Body	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	40.00		hcl 80	btc	4.39	1.53	1.21	5,222	2	2.09	2.61	208,880
"B"								0				0
	w/8.4#/g	mud, 30min Sfc Csg Test	osig:				Totals:	5,222				208,880
		The cement v	olume(s) are inten	ded to achieve a top o	f 0	ft from su	rface or a	1110				overlap.
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Req'd				Min Dist
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE				Hole-Cplg
12 1/4	0.3132	2070	2984	1690	77	10.20	2745	3M				0.81
Class 'H' tail cm	t yld > 1.20											

5 1/2	casing	g inside the	9 5/8	_		Design Fac	ctors			Prod 1		
Segment	#/ft	Grade		Coupling	Joint	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	23.00		p 110	uss eagle sfh	2.87	3.05	3.05	19,235	3	5.29	5.30	442,405
"B"								0				0
	w/8.4#/g	mud, 30min Sfc Csg Test	psig: 2,017				Totals:	19,235				442,405
		The cement	volume(s) are inter	ided to achieve a top of	5022	ft from su	rface or a	200				overlap.
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Req'd				Min Dist
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE				Hole-Cplg
6 3/4	0.0835	1836	3697	1222	202	10.00						0.46
Class 'C' tail cm	t yld > 1.35											

#N/A									_			
0	5 1/2				Design Factors				<choose casing=""></choose>			
Segment	#/ft	Grade		Coupling	#N/A	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"				0.00				0				0
"B"				0.00				0				0
	w/8.4#	/g mud, 30min Sfc Csg Test p	sig:				Totals:	0				0
Cmt vol calc below includes this csg, TOC intended				#N/A	ft from su	rface or a	#N/A				overlap.	
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Req'd				Min Dist
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE				Hole-Cplg
0		#N/A	#N/A	0	#N/A							
#N/A			Capitan Reef est	t top XXXX.								
									_			

Carlsbad Field Office 3/15/2024

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

CONDITIONS

Action 323776

CONDITIONS

Operator:	OGRID:
Franklin Mountain Energy LLC	373910
44 Cook Street, Suite 1000	Action Number:
Denver, CO 80206	323776
	Action Type:
	[C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By		Condition Date
pkautz	None	3/18/2024