

Form 3160-3
(October 2024)FORM APPROVED
OMB No. 1004-0220
Expires: October 31, 2027

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work:	<input checked="" type="checkbox"/> DRILL	<input type="checkbox"/> REENTER	7. If Unit or CA Agreement, Name and No.	
1b. Type of Well:	<input checked="" type="checkbox"/> Oil Well	<input type="checkbox"/> Gas Well	8. Lease Name and Well No.	
1c. Type of Completion:	<input type="checkbox"/> Hydraulic Fracturing	<input checked="" type="checkbox"/> Single Zone	<input type="checkbox"/> Multiple Zone	BOMBSITE BS FED COM 001H
2. Name of Operator	9. API Well No. 30-015-57598			
FLAT CREEK RESOURCES LLC				
3a. Address	3b. Phone No. (include area code)			
777 MAIN STREET, SUITE 3600, FORT WORTH, TX 761		(817) 310-8570		
4. Location of Well (Report location clearly and in accordance with any State requirements. *)				10. Field and Pool, or Exploratory Cottonwood Draw/Bone Spring
At surface SWSE / 645 FSL / 2341 FEL / LAT 32.1534351 / LONG -104.2801164				11. Sec., T. R. M. or Blk. and Survey or Area SEC 3/T25S/R26E/NMP
At proposed prod. zone NENE / 15 FNL / 749 FEL / LAT 32.1810192 / LONG -104.274506				
14. Distance in miles and direction from nearest town or post office*				12. County or Parish EDDY
5.5 miles				13. State NM
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	645 feet	16. No of acres in lease	17. Spacing Unit dedicated to this well 959.36	
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	30 feet	19. Proposed Depth	20. BLM/BIA Bond No. in file FED: NMB001675	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3340 feet		22. Approximate date work will start*	23. Estimated duration 60 days	
24. Attachments				

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable)

1. Well plat certified by a registered surveyor.	4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
2. A Drilling Plan.	
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).	5. Operator certification. 6. Such other site specific information and/or plans as may be requested by the BLM.

25. Signature (Electronic Submission)	Name (Printed/Typed) CORY WALK / Ph: (817) 310-8570	Date 07/21/2025
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Title

Permitting Agent

Approved by (Signature) (Electronic Submission)	Name (Printed/Typed) CODY LAYTON / Ph: (575) 234-5959	Date 11/07/2025
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Title

Assistant Field Manager Lands & Minerals

Office
Carlsbad Field Office

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

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.

APPROVED WITH CONDITIONS

(Continued on page 2)

*(Instructions on page 2)

C-102	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION		Revised July 9, 2024
Submit Electronically Via OCD Permitting			Submittal Type: <input checked="" type="checkbox"/> Initial Submittal <input type="checkbox"/> Amended Report <input type="checkbox"/> As Drilled

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015- 57598	Pool Code 97494	Pool Name COTTONWOOD DRAW, BONE SPRING (O)
Property Code 338329	Property Name BOMBSITE BS FED COM	Well Number 1H
OGRID No. 374034	Operator Name FLAT CREEK RESOURCES LLC	Ground Level Elevation 3340'
Surface Owner: <input type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input checked="" type="checkbox"/> Federal		Mineral Owner: <input type="checkbox"/> State <input checked="" type="checkbox"/> Fee <input type="checkbox"/> Tribal <input checked="" type="checkbox"/> Federal

Surface Location

UL or lot no. O	Section 3	Township 25-S	Range 26-E	Lot Idn -	Feet from the N/S 645' S	Feet from the E/W 2341' E	Latitude N 32.1534351	Longitude W 104.2801164	County EDDY
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Bottom Hole Location

UL or lot no. A	Section 34	Township 24-S	Range 26-E	Lot Idn -	Feet from the N/S 15' N	Feet from the E/W 749' E	Latitude N 32.1810192	Longitude W 104.2745060	County EDDY
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Dedicated Acres 959.36	Infill or Defining Well Defining	Defining Well API 30-015-xxxxx (1H)	Overlapping Spacing Unit (Y/N) N	Consolidated Code C
Order Numbers NSP will be filed			Well Setbacks are under Common Ownership: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

Kick Off Point (KOP)

UL or lot no. I	Section 3	Township 25-S	Range 26-E	Lot Idn -	Feet from the N/S 2240' S	Feet from the E/W 750' E	Latitude N 32.1577457	Longitude W 104.2748705	County EDDY
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First Take Point (FTP)

UL or lot no. H	Section 3	Township 25-S	Range 26-E	Lot Idn -	Feet from the N/S 2591' N	Feet from the E/W 755' E	Latitude N 32.1593247	Longitude W 104.2748458	County EDDY
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Last Take Point (LTP)

UL or lot no. A	Section 34	Township 24-S	Range 26-E	Lot Idn -	Feet from the N/S 100' N	Feet from the E/W 749' E	Latitude N 32.1807855	Longitude W 104.2745097	County EDDY
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Unitized Area or Area of Uniform Interest -	Spacing Unity Type <input checked="" type="checkbox"/> Horizontal <input type="checkbox"/> Vertical	Ground Floor Elevation
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OPERATOR CERTIFICATION

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

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

7-2-25

SURVEYORS CERTIFICATION

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



7/1/2025 2:38:50 PM

Signature 	Date Cory Walk	Signature and Seal of Professional Surveyor	Date
Print Name cory@permitswest.com	Certificate Number	Date of Survey 05/09/2025	
E-mail Address			

C-102

Submit Electronically
Via OCD PermittingState of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION

Revised July 9, 2024

Submittal Type:	<input checked="" type="checkbox"/> Initial Submittal
	<input type="checkbox"/> Amended Report
	<input type="checkbox"/> As Drilled

Property Name and Well Number

BOMBSITE BS FED COM 1H

SURFACE LOCATION (SHL)

NEW MEXICO EAST

NAD 1983

X=557807 Y=419559

LAT.: N 32.1534351

LONG.: W 104.2801164

NAD 1927

X=516624 Y=419502

LAT.: N 32.1533157

LONG.: W 104.2796165

645' FSL 2341' FEL

KICK OFF POINT (KOP)

NEW MEXICO EAST

NAD 1983

X=559429 Y=421128

LAT.: N 32.1577457

LONG.: W 104.2748705

NAD 1927

X=518247 Y=421071

LAT.: N 32.1576262

LONG.: W 104.2743707

2240' FSL 750' FEL

FIRST PERF. POINT (FPP)

NEW MEXICO EAST

NAD 1983

X=559437 Y=421702

LAT.: N 32.1593247

LONG.: W 104.2748458

NAD 1927

X=518254 Y=421645

LAT.: N 32.1592053

LONG.: W 104.2743459

2591' FNL 755' FEL

FIRST PERF. POINT (FPP1)

NEW MEXICO EAST

NAD 1983

X=559470 Y=424294

LAT.: N 32.1664475

LONG.: W 104.2747343

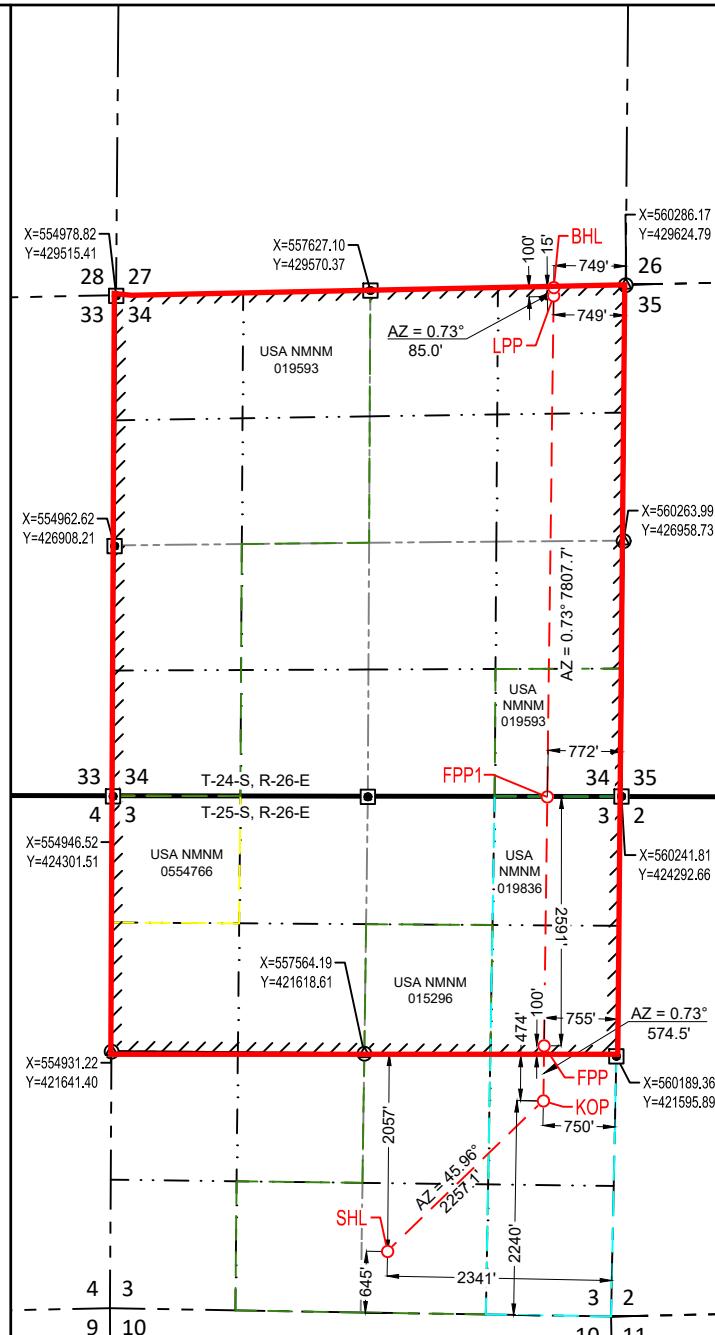
NAD 1927

X=518287 Y=424236

LAT.: N 32.1663282

LONG.: W 104.2742342

0' FSL 772' FEL



LAST PERF. POINT (LPP)

NEW MEXICO EAST

NAD 1983

X=559536 Y=429509

LAT.: N 32.1807855

LONG.: W 104.2745097

NAD 1927

X=518354 Y=429452

LAT.: N 32.1806664

LONG.: W 104.2740093

100' FNL 749' FEL

BOTTOM HOLE LOCATION (BHL)

NEW MEXICO EAST

NAD 1983

X=559537 Y=429594

LAT.: N 32.1810192

LONG.: W 104.2745060

NAD 1927

X=518355 Y=429537

LAT.: N 32.1809001

LONG.: W 104.2740056

15' FNL 749' FEL

SURVEYORS CERTIFICATION

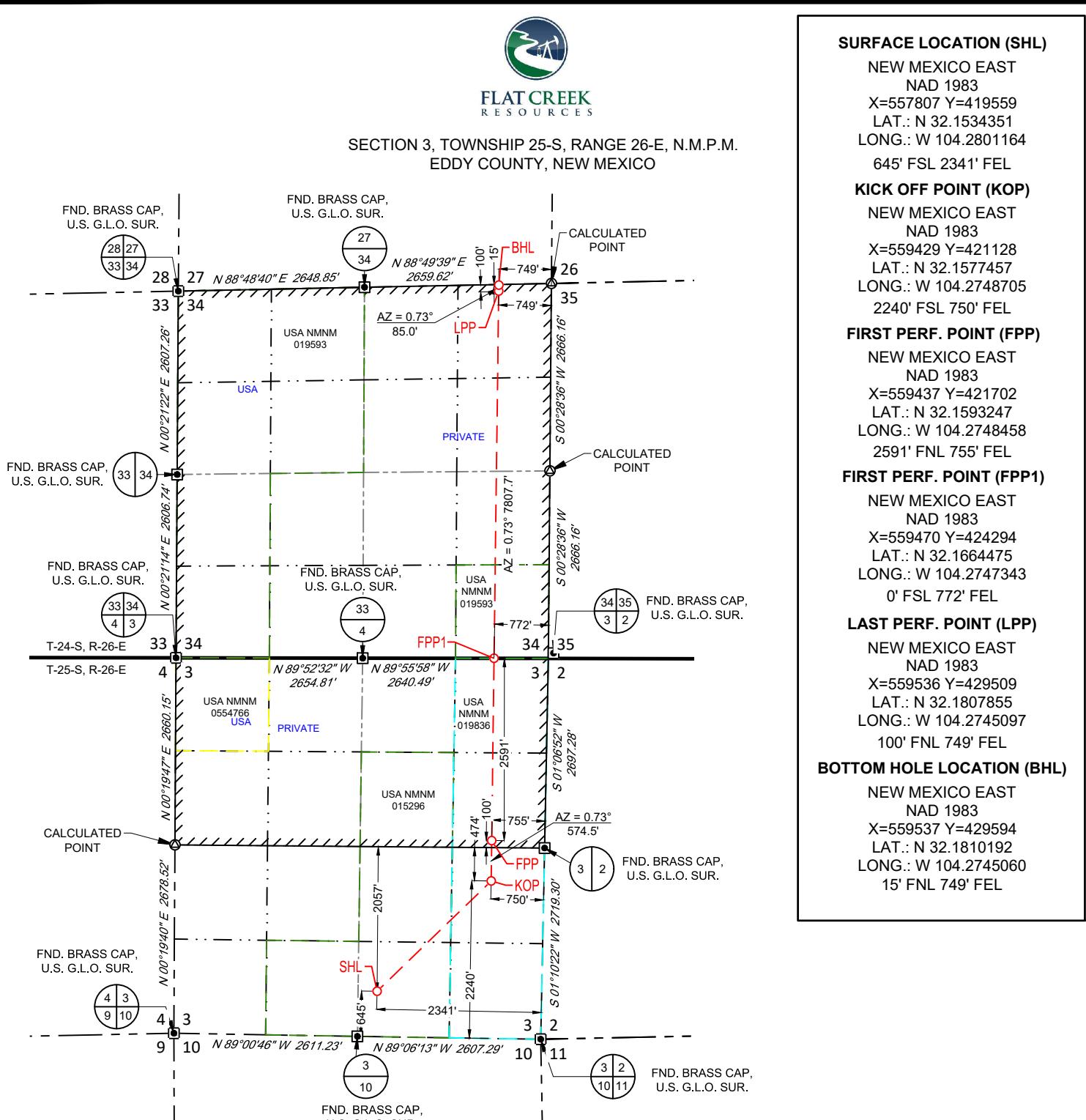
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.
05/09/2025

Date of Survey

Signature and Seal of Professional Surveyor:



7/1/2025 2:38:51 PM

LEASE NAME & WELL NO.: BOMBSITE BS FED COM 1H

SECTION 3 TWP 25-S RGE 26-E SURVEY N.M.P.M.
 COUNTY EDDY STATE NM
 DESCRIPTION 645' FSL & 2341' FEL

DISTANCE & DIRECTION

FROM INT. OF US-62/US-180, & WHITES CITY RD., GO EAST ON WHITES CITY ROAD ± 5.5 MILES, THENCE NORTH (LEFT) ON MEANS RD. ± 2.2 MILES, THENCE EAST (RIGHT) ON PRICKLY PEAR RD. ± 2.8 MILES, THENCE NORTH (LEFT) ON A LEASE RD. ± 1.1 MILES, THENCE WEST (LEFT) ON A PROPOSED RD. ± 647 FEET TO A POINT ± 438 FEET SOUTHEAST OF THE LOCATION.

ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID BASED UPON THE NEW MEXICO COORDINATE SYSTEM OF 1983, EAST ZONE, U.S. SURVEY FEET
 THIS EASEMENT/SERVITUDE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY MATADOR PRODUCTION COMPANY. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.
 AS OF THE DATE OF SURVEY, ALL ABOVE GROUND APPURTENANCES WITHIN 300' OF THE STAKED LOCATION ARE SHOWN HEREON.



7/1/2025 2:38:51 PM

Ramon A. Dominguez, P.S. No. 24508

TOPOGRAPHIC
LOYALTY INNOVATION LEGACY
481 WINSCHOTT ROAD, STE. 200 • BENBROOK, TEXAS 76126
TELEPHONE: (817) 744-7512 • FAX (817) 744-7554
2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705
TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743
WWW.TOBOPGRAPHIC.COM

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

Submit Electronically
Via E-permitting

NATURAL GAS MANAGEMENT PLAN

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

Section 1 – Plan Description Effective May 25, 2021

I. Operator: Flat Creek Resources, LLC **OGRID:** 374034 **Date:** 07 /01 /2025

II. Type: Original Amendment due to 19.15.27.9.D(6)(a) NMAC 19.15.27.9.D(6)(b) NMAC Other.

If Other, please describe: _____

III. Well(s): Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Bombsite BS Fed Com 1H		O-3-25S-26E	645' S 2341' E	730	1540	1825
Bombsite BS Fed Com 2H		O-3-25S-26E	620' S 2324' E	730	1540	1825
Bombsite BS Fed Com 3H		O-3-25S-26E	596' S 2307' E	730	1540	1825
Bombsite BS Fed Com 4H		O-3-25S-26E	571' S 2290' E	730	1540	1825

IV. Central Delivery Point Name: Bombsite Pad Tank Battery [See 19.15.27.9(D)(1) NMAC]

V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
Bombsite BS Fed Com 1H		June 1, 2026	July 14, 2026	September 15, 2026	November 1, 2026	November 15, 2026
Bombsite BS Fed Com 2H		June 2, 2026	July 4, 2026	September 15, 2026	November 1, 2026	November 15, 2026
Bombsite BS Fed Com 3H		June 3, 2026	June 24, 2026	September 15, 2026	November 1, 2026	November 15, 2026
Bombsite BS Fed Com 4H		June 4, 2026	June 14, 2026	September 15, 2026	November 1, 2026	November 15, 2026

VI. Separation Equipment: Attach a complete description of how Operator will size separation equipment to optimize gas capture.

VII. Operational Practices: Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.

VIII. Best Management Practices: Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

Section 2 – Enhanced Plan
EFFECTIVE APRIL 1, 2022

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

IX. Anticipated Natural Gas Production:

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF

X. Natural Gas Gathering System (NGGS):

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in

XI. Map. Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

XII. Line Capacity. The natural gas gathering system will will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

XIII. Line Pressure. Operator does does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).

Attach Operator's plan to manage production in response to the increased line pressure.

XIV. Confidentiality: Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

Section 3 - Certifications

Effective May 25, 2021

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system.

If Operator checks this box, Operator will select one of the following:

Well Shut-In. Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

Venting and Flaring Plan. Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- (a) power generation on lease;
- (b) power generation for grid;
- (c) compression on lease;
- (d) liquids removal on lease;
- (e) reinjection for underground storage;
- (f) reinjection for temporary storage;
- (g) reinjection for enhanced oil recovery;
- (h) fuel cell production; and
- (i) other alternative beneficial uses approved by the division.

Section 4 - Notices

1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or

(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.

2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature: *Rodney Littleton*

Printed Name: Rodney Littleton

Title: VP of Drilling

E-mail Address: rlittleton@freedomenergy.com

Date: July 1, 2025

Phone: 817-310-8570

OIL CONSERVATION DIVISION
(Only applicable when submitted as a standalone form)

Approved By:

Title:

Approval Date:

Conditions of Approval:

VI. SEPARATION EQUIPMENT

Flat Creek Resources, LLC, will install:

- four 48" OD x 15', 500#, 3 phase separators
- one 96" OD x 20', 250# heater treater
- four 750 BBL water tanks
- three 750 BBL oil tanks
- one 15'6" x 30', 1000 BBL gun barrel
- one 72" OD x 15' gas scrubber
- one vapor recovery tower
- one vapor recovery unit
- vapor recovery piping for oil and water tanks

System is designed to capture 120% of the expected gas volume from separation all the way through the vapor recovery equipment.

VII. OPERATIONAL PRACTICES

NMAC 19.15.27.8 (A) Venting & Flaring of Natural Gas

1. Flat Creek Resources will comply with NMAC 19.15.27.8 – venting and flaring of gas during drilling, completion, or production that constitutes waste as defined in 19.15.2 is banned.

NMAC 19.15.27.8 (B) Venting & Flaring During Drilling

1. Flat Creek will combust gas if technically feasible during drilling operations using best industry practices.
2. A flare stack with a 100% capacity for expected volume will be set on the pad greater than 100 feet from the nearest well head and storage tank.
3. In an emergency, Flat Creek will vent the gas in order to avoid substantial impact. Flat Creek will report vented or flared gas to the NMOCD.

NMAC 19.15.27.8 (C) Venting & Flaring During Completion or Recompletion

1. Facilities will be built and ready from the first day of flowback.
2. Test separator will properly separate gas and liquids. Temporary test separator will be used initially to process volumes. In addition, separator will be tied into flowback tanks which will be tied into the gas processing equipment for sale down a pipeline.
3. Should the facility not be ready to process gas or the gas does not meet quality standards then the flowback will be delayed until the facility and pipeline are ready.

NMAC 19.15.27.8 (D) Venting & Flaring During Production

Flat Creek will not vent or flare natural gas except:

1. During an emergency or malfunction.
2. To unload or clean-up liquid holdup in a well to atmospheric pressure, provided
 - a. Flat Creek does not vent after the well achieves a stabilized rate and pressure
 - b. Flat Creek will be on-site while unloading liquids by manual purging and take all reasonable actions to achieve a stabilized rate and pressure as soon as possible
 - c. Flat Creek will optimize the system to minimize gas venting if the well is equipped with a plunger lift or auto control system
 - d. Best management practices will be used during downhole well maintenance
3. During the following activities unless prohibited
 - a. Gauging or sampling a storage tank or low-pressure production vessel
 - b. Loading out liquids from a storage tank
 - c. Repair and maintenance
 - d. Normal operations of a gas-activated pneumatic controller or pump
 - e. Normal operation of a storage tank but not including venting from a thief hatch
 - f. Normal operation of a dehydration unit
 - g. Normal operations of compressors, engines, turbines, valves, flanges, & connectors
 - h. During bradenhead, packer leakage test, or production test lasting less than 24 hours
 - i. When natural gas does not meet the gathering line specifications

- j. Commissioning of pipelines, equipment, or facilities only for as long as necessary to purge introduced impurities

NMAC 19.15.27.8 (E) Performance Standards

1. Flat Creek used a safety factor to design the separation and storage equipment. The equipment will be routed to a vapor recovery system and uses a flare as back up to startup, shutdown, maintenance, or malfunction of the VRU system.
2. Flat Creek will install a flare that will handle the full volume of vapors from the facility in case of VRU failure. It will have an auto-ignition system.
3. Flare stacks will be appropriately sized and designed to ensure proper combustion efficiency
 - a. Flare stacks installed or replaced will be equipped with an automatic ignitor or continuous pilot.
 - b. Flare stacks will be located greater than 100 feet from well head and storage tanks and securely anchored
4. Flat Creek will conduct an AVO inspection on all components for leaks and defects every week.
5. Flat Creek will make and keep records of AVO inspection available to the NMOCD for at least 5 years.
6. Flat Creek may use a remote or automated monitoring technology to detect leaks and releases in lieu of AVO inspections with prior NMOCD approval.
7. Facilities will be designed to minimize waste.
8. Flat Creek will resolve emergencies as promptly as possible.

NMAC 19.15.27.8 (F) Measuring or Estimating Vented and Flared Natural Gas

1. Flat Creek will have meters on both the low pressure and high-pressure sides of the flares. Volumes will be recorded in the SCADA system.
2. Flat Creek will install equipment to measure the volume of flared natural gas that has an average production of greater than 60 MCFD.
3. Flat Creek's measuring equipment will conform to industry standards.
4. Measurement system will be designed such that it cannot be bypassed except for inspections and servicing the meters.
5. Flat Creek will estimate the volume of vented or flared gas using a methodology that can be independently verified if metering is not practicable due to low flow rate or pressure.
6. Flat Creek will estimate the volume of vented and/or flared gas based on the results of an annual GOR test for wells that do not require measuring equipment reported on form C-116.
7. Flat Creek will install measuring equipment whenever the NMOCD determines that metering is necessary.

VIII. BEST MANAGEMENT PRACTICES

Flat Creek Resources, LLC, will minimize venting during maintenance by:

1. System will be designed and operated to route storage tank and process equipment emissions to the VRU. If the VRU is not operable, then the vapors will be routed to the flare.
2. Scheduling maintenance for multiple tasks to minimize the need for blowdowns.
3. After completion of maintenance, gas will be flared until it meets pipeline specifications.



APD ID: 10400106032

Submission Date: 07/21/2025

Highlighted data
reflects the most
recent changes

Operator Name: FLAT CREEK RESOURCES LLC

Well Name: BOMBSITE BS FED COM

Well Number: 001H

Well Type: OIL WELL

Well Work Type: Drill

[Show Final Text](#)

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formation
16740948	QUATERNARY	3340	0	0	OTHER : Caliche	USEABLE WATER	N
16740949	CASTILE	3314	26	26	ANHYDRITE	USEABLE WATER	N
16740950	TOP SALT	2319	1021	1021	SALT	NONE	N
16740951	BASE OF SALT	1684	1656	1662	SALT	NONE	N
16740952	LAMAR	1539	1801	1812	LIMESTONE	NONE	N
16740953	BELL CANYON	1474	1866	1880	SANDSTONE	NONE	N
16740954	CHERRY CANYON	559	2781	2906	SANDSTONE	NONE	N
16740955	BRUSHY CANYON	-431	3771	4061	SANDSTONE	NONE	N
16740956	BONE SPRING LIME	-1966	5306	5839	LIMESTONE	NATURAL GAS, OIL	N
16740957	BONE SPRING 1ST	-2956	6296	6862	SANDSTONE	NATURAL GAS, OIL	N
16740958	BONE SPRING 2ND	-3121	6461	7027	SHALE	NATURAL GAS, OIL	N
16740959	BONE SPRING 2ND	-3454	6794	7363	SANDSTONE	NATURAL GAS, OIL	Y

Section 2 - Blowout Prevention

Pressure Rating (PSI): 10M

Rating Depth: 20000

Equipment: A 20,000', 10,000 psi BOP stack will consist of a single ram, mud cross and double ram-type (10,000 psi WP) preventer, and an annular preventer (5000-psi WP). Both units will be hydraulically operated, and the ram type will be equipped with blind rams on bottom and drill pipe rams on top. All BOPE will be tested in accordance with 43 CFR 3172.

Requesting Variance? YES

Variance request: Variance is requested for the use of BOP Break Testing as described in the attached document. Variance is requested to use a co-flex line between the BOP and choke manifold (instead of using

Operator Name: FLAT CREEK RESOURCES LLC**Well Name:** BOMBSITE BS FED COM**Well Number:** 001H

a 4" OD steel line).

Testing Procedure: 1. Use water to test BOPs. 2. Make up test assembly (test plug) and set in the wellhead profile. Ensure the casing valve is left open. Monitor the casing valve outlet while testing for potential leak past the test plug. 3. Circulate through the choke/kill lines, choke manifold, standpipe manifold, and valves to ensure that all lines are full of water. This will prevent pressure drop (compression) while testing. 4. Line up test unit and test rams, valves and lines as per the chart below. 5. Pressure tests must be low and high, respectively, and the pressure should stabilize with minimum bleed off within 10 minutes. If a test plug is utilized, no bleed-off of pressure is acceptable. For a test not utilizing a test plug, if a decline in pressure of more than 10 percent in 30 minutes occurs, the test shall be considered to have failed. Pressure should be recorded on a chart recorder. 6. Any equipment that does not pass the pressure test must be reported to the drilling supervisor. Equipment must be repaired and retested. 7. Continue with pressure testing until all equipment has been tested as per the specific rig requirements. 8. Rig down test assembly. 9. All tests and drills to be recorded in the drilling log.

Choke Diagram Attachment:

Choke_Rev_20250715100430.pdf

BOP Diagram Attachment:

10M_BOP_5M_Annular_Diagram_20250715100438.pdf

Section 3 - Casing

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set TVD	Top Set TVD	Bottom Set MSL	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	14.75	10.75	NEW	API	N	0	450	0	450	3340	2890	450	J-55	45.5	ST&C	9.9	17	DRY	39.2	DRY	39.2
2	INTERMEDIATE	9.875	7.625	NEW	API	N	0	1780	0	1770	0	1570	1780	OTH ER - P-110 HC	29.7	BUTT	7.8	7.5	DRY	13	DRY	13
3	PRODUCTION	6.75	5.5	NEW	NON API	N	0	15849	0	7011	0	-3671	15849	OTH ER - P-110 HC	20	OTHER - TCBC-HT	3.4	3.5	DRY	4.5	DRY	4.5

Casing Attachments

Operator Name: FLAT CREEK RESOURCES LLC**Well Name:** BOMBSITE BS FED COM**Well Number:** 001H**Casing Attachments****Casing ID:** 1 **String** SURFACE**Inspection Document:****Spec Document:****Tapered String Spec:****Casing Design Assumptions and Worksheet(s):**

BS_1H_Casing_Design_Assumptions_20250715100622.pdf

Casing ID: 2 **String** INTERMEDIATE**Inspection Document:****Spec Document:****Tapered String Spec:****Casing Design Assumptions and Worksheet(s):**

BS_1H_Casing_Design_Assumptions_20250715100723.pdf

Casing ID: 3 **String** PRODUCTION**Inspection Document:****Spec Document:**

5.5in_Casing_Spec_20lb_TCBC-HT_20250715100822.pdf

Tapered String Spec:**Casing Design Assumptions and Worksheet(s):**

BS_1H_Casing_Design_Assumptions_20250715100842.pdf

Section 4 - Cement

Operator Name: FLAT CREEK RESOURCES LLC

Well Name: BOMBSITE BS FED COM

Well Number: 001H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	200	135	1.68	12.8	227	100	35/65 Poz-Premium C	5% bwow Sodium chloride + 6% bentonite gel + 0.4% CPT-503P + 0.125 lbs/sk Dura fiber
SURFACE	Tail		200	450	210	1.34	14.8	281	100	Class C	1% Calcium chloride + 0.25 lb/skv cellophane flake
INTERMEDIATE	Lead		0	1280	250	1.68	12.8	420	50	35/65 Poz-Premium C	5% bwow Sodium chloride + 6% bentonite gel + 0.4% CPT-503P + 0.125 lbs/sk Dura fiber
INTERMEDIATE	Tail		1280	1780	85	1.74	13.5	148	50	Class C	1% calcium chloride + 4% bentonite gel + 0.4% CPT-503P + 0.125 lbs/sk Dura fiber
PRODUCTION	Lead		0	6500	225	2.82	10.4	635	15	Class H	10% bwoc light weight bead + 5% silica fume alternative + 0.2% suspension aid + 0.3% fluid loss additive + 0.3% dispersant + 0.2% cement retarder
PRODUCTION	Tail		6500	1584 9	635	1.42	13.2	902	15	35/65 Poz-Premium H	0.2% CPT-2

Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

Description of the equipment for the circulating system in accordance with 43 CFR 3172:

Diagram of the equipment for the circulating system in accordance with 43 CFR 3172:

Describe what will be on location to control well or mitigate other conditions: Sufficient mud materials (e.g. barite, bentonite, LCM) to maintain mud properties and meet minimum lost circulation and weight increase requirements will always be kept on site.

Describe the mud monitoring system utilized: An electronic pit volume totalizer (PVT) mud system will monitor pit volumes for gains or losses, flow rate, pump pressures, and stroke rate.

Circulating Medium Table

Operator Name: FLAT CREEK RESOURCES LLC

Well Name: BOMBSITE BS FED COM

Well Number: 001H

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	pH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	450	OTHER : Fresh Water Spud Mud	8.8	8.8							
450	1780	SALT SATURATED	10	10							
1780	1584 9	OTHER : Cut Brine	9.4	9.4							

Section 6 - Test, Logging, Coring

List of production tests including testing procedures, equipment and safety measures:

Gama Ray log and resistivity log. No open and cased hole logs are planned at this time.

List of open and cased hole logs run in the well:

GAMMA RAY LOG, POROSITY-RESISTIVITY LOG,

Coring operation description for the well:

No coring operation is planned.

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 3143

Anticipated Surface Pressure: 1578

Anticipated Bottom Hole Temperature(F): 152

Anticipated abnormal pressures, temperatures, or potential geologic hazards? NO

Describe:

Contingency Plans geohazards description:

Contingency Plans geohazards

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations

BS_H2S_Plan_20250715101549.pdf

Operator Name: FLAT CREEK RESOURCES LLC

Well Name: BOMBSITE BS FED COM

Well Number: 001H

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

BS_1H_Directional_Plan_20250715101603.pdf

Other proposed operations facets description:

Other proposed operations facets attachment:

BS_1H_Anticollision_Report_20250715101654.pdf

BOP_Wellhead_Testing_v2_20250715101728.pdf

CoFlex_Certs_Rev_20250715101751.pdf

Wellhead_Diagram_20250715101752.pdf

BS_WMP_20250715101809.pdf

BS_1H_Drill_Plan_v2_20251002080038.pdf

BOP_Break_Testing_Variance_Request_v2_20251002080426.pdf

Annular_Well_Control_Procedures_20251017123303.pdf

Other Variance request(s): N

Other Variance attachment:



BOMBSITE FED COM BS 1H



FLAT CREEK
RESOURCES

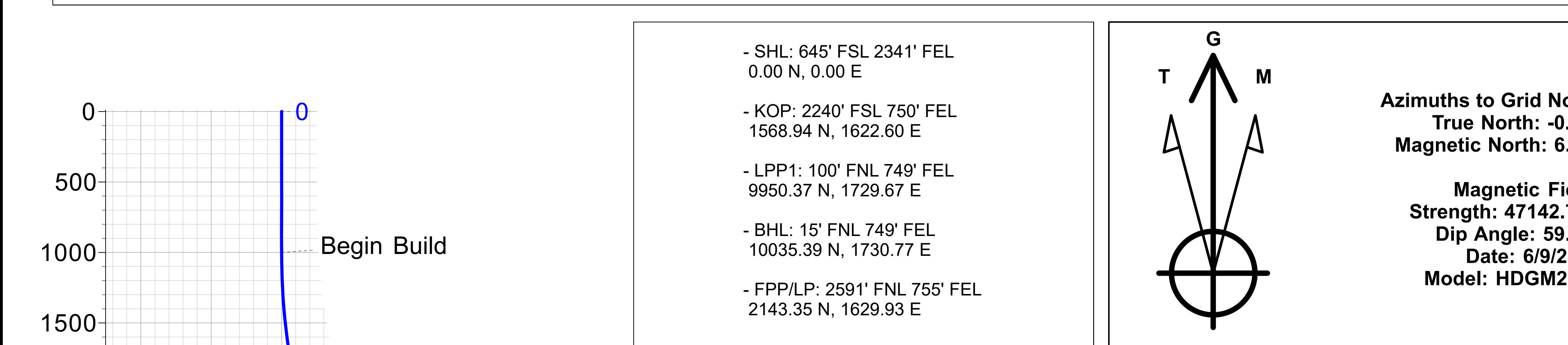
WELL DETAILS: BOMBSITE FED COM BS 1H Plan 1

GL Elev (ft.): 3340.00
Northing: 419559.07 Easting: 557806.58 Latitude: 32.1534351 Longitude: -104.2801164

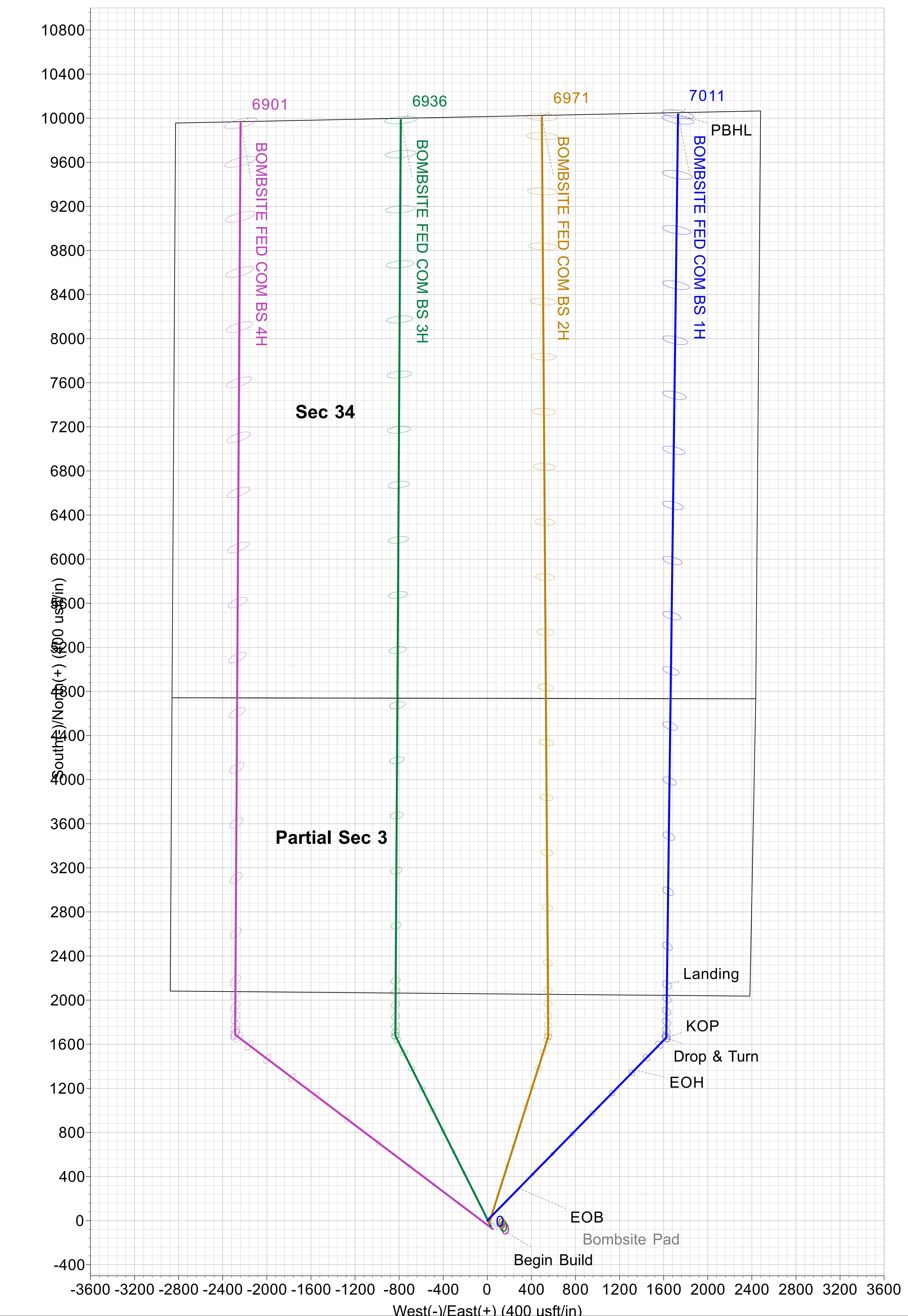
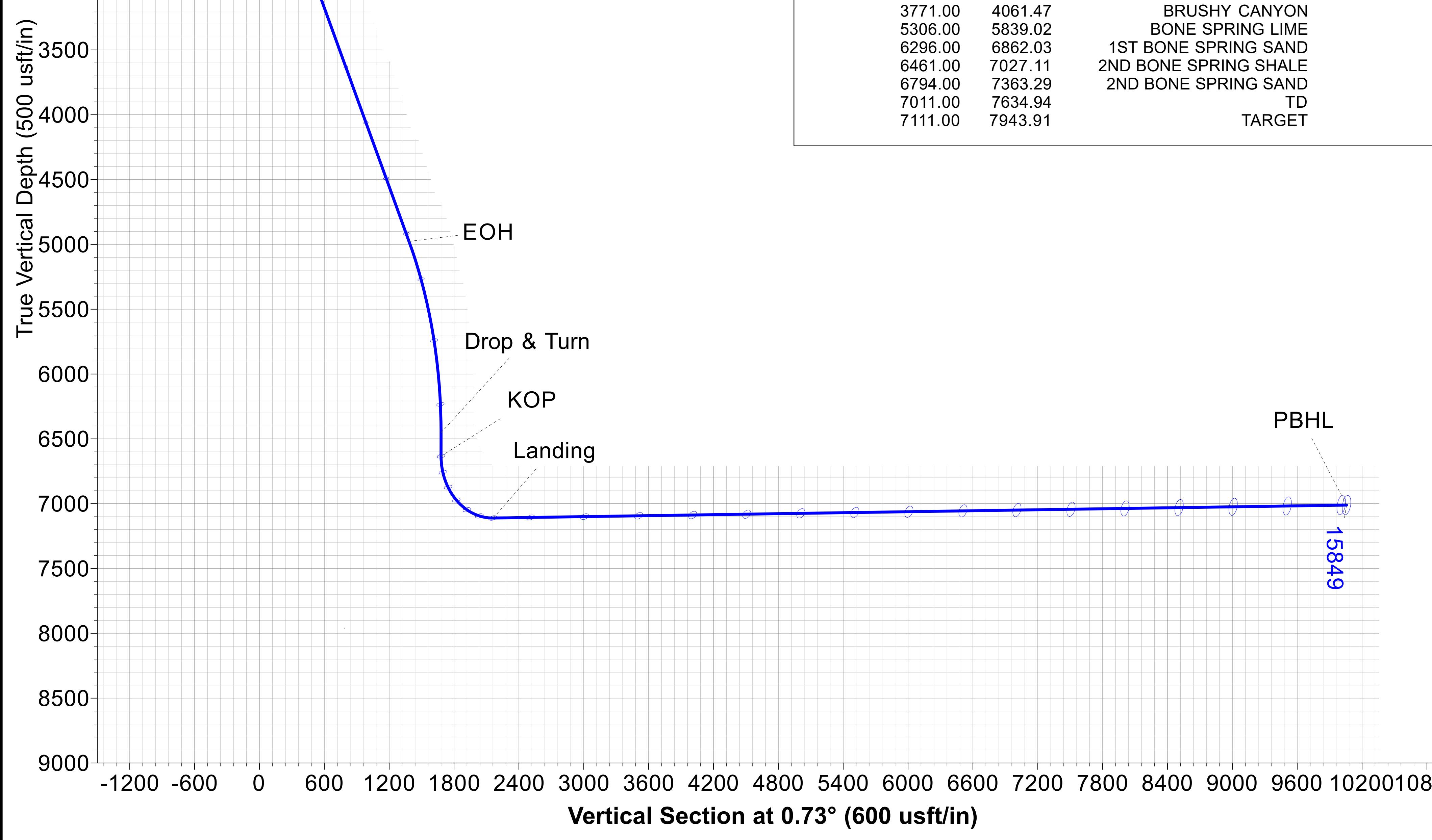
Project: Eddy County, New Mexico
Site: Bombsite Pad
Well: BOMBSITE FED COM BS 1H
Wellbore: Wellbore #1
Design: Plan 1

SECTION DETAILS									
MD	Inc	Azi	TVD	+N/S	+E/W	Dleg	TFace	VSect	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Begin Build
1000.00	0.00	0.00	1000.00	0.00	0.00	0.00	0.00	0.00	EOB
2550.22	31.00	44.37	2475.67	292.59	286.22	2.00	44.37	296.21	EOH
5468.89	31.00	44.37	4977.33	1367.29	1337.53	0.00	0.00	1384.22	KOP
7019.11	0.00	0.00	6453.00	1659.88	1623.75	2.00	180.00	1680.43	Drop & Turn
7199.68	0.00	0.00	6633.57	1659.88	1623.75	0.00	0.00	1680.43	Landing
7955.73	90.73	0.73	7111.00	2143.35	1629.93	12.00	0.73	2163.95	PBHL
15849.04	90.73	0.73	7011.00	10035.39	1730.77	0.00	0.00	10056.62	

DESIGN TARGET DETAILS							
Name	TVD	+N/S	+E/W	Northing	Easting	Latitude	Longitude
BOMBSITE FED COM BS 1H - LPP1	0.00	9950.37	1729.67	429509.44	559536.26	32.1807855	-104.2745097
BOMBSITE FED COM BS 1H - SHL	0.00	0.00	0.00	419559.07	557806.58	32.1534351	-104.2801164
BOMBSITE FED COM BS 1H - KOP	6633.57	1568.94	1622.60	421128.01	559429.19	32.1577457	-104.2748705
BOMBSITE FED COM BS 1H - BHL	7011.00	10035.39	1730.77	429594.45	559537.35	32.1810192	-104.2745060
BOMBSITE FED COM BS 1H - FPP/LP	7111.00	2143.35	1629.93	421702.42	559436.52	32.1593247	-104.2748458



FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
26.00	26.00	CASTILE
1021.00	1021.00	TOP SALT
1656.00	1661.87	BASE SALT
1801.00	1811.82	BELL CANYON
1866.00	1879.7	MAR/DELAWARE MOUNTAIN GP.
2781.00	2906.45	CHERRY CANYON
3771.00	4061.47	BRUSHY CANYON
5306.00	5839.02	BONE SPRING LIME
6296.00	6862.03	1ST BONE SPRING SAND
6461.00	7027.11	2ND BONE SPRING SHALE
6794.00	7363.29	2ND BONE SPRING SAND
7011.00	7634.94	TD
7111.00	7943.91	TARGET



Flat Creek Resources

Eddy County, New Mexico
Bombsite Pad
BOMBSITE FED COM BS 1H

Wellbore #1

Plan: Plan 1



Standard Plan Report

10 June, 2025

Total Report Version 1.70

COMPASS 5000.16 Build 97

Planned Survey Report

Company:	Flat Creek Resources	Local Co-ordinate Reference:	Well BOMBSITE FED COM BS 1H
Project:	Eddy County, New Mexico	TVD Reference:	3340' GL + 26' KB @ 3366.00usft
Site:	Bombsite Pad	MD Reference:	3340' GL + 26' KB @ 3366.00usft
Well:	BOMBSITE FED COM BS 1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan 1	Database:	Total Directional Production DB

Project	Eddy County, New Mexico	System Datum:	Mean Sea Level
Map System:	US State Plane 1983		
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Bombsite Pad				
Site Position:		Northing:	419,559.07 usft	Latitude:	32.1534351
From:	Lat/Long	Easting:	557,806.59 usft	Longitude:	-104.2801164
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "		

Well	BOMBSITE FED COM BS 1H					
Well Position	+N/-S +E/-W	0.00 usft 0.00 usft	Northing: Easting:	419,559.07 usft 557,806.59 usft	Latitude: Longitude:	32.1534351 -104.2801164
Position Uncertainty		0.50 usft	Wellhead Elevation:	usft	Ground Level:	3,340.00 usft
Grid Convergence:		0.03 °				

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM2025	6/9/2025	6.77	59.62	47,142.7000000

Design	Plan 1				
Audit Notes:					
Version:		Phase:	PLAN	Tie On Depth:	0.00

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	0.73

Survey Tool Program	Date	6/10/2025			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.00	15,849.04	Plan 1 (Wellbore #1)	3_MWD+HRGM	B001Mb: HRGM declination correction only	

Plan Summary											
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	0.00	
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,550.22	31.00	44.37	2,475.67	292.59	286.22	2.00	2.00	0.00	0.00	44.37	
5,468.89	31.00	44.37	4,977.33	1,367.29	1,337.53	0.00	0.00	0.00	0.00	0.00	
7,019.11	0.00	0.00	6,453.00	1,659.88	1,623.75	2.00	-2.00	0.00	0.00	180.00	
7,199.68	0.00	0.00	6,633.57	1,659.88	1,623.75	0.00	0.00	0.00	0.00	0.00	
7,955.73	90.73	0.73	7,111.00	2,143.35	1,629.93	12.00	12.00	0.10	0.73		
15,849.04	90.73	0.73	7,011.00	10,035.39	1,730.77	0.00	0.00	0.00	0.00	BOMBSITE FED C	

Planned Survey Report

Company:	Flat Creek Resources	Local Co-ordinate Reference:	Well BOMBSITE FED COM BS 1H
Project:	Eddy County, New Mexico	TVD Reference:	3340' GL + 26' KB @ 3366.00usft
Site:	Bombsite Pad	MD Reference:	3340' GL + 26' KB @ 3366.00usft
Well:	BOMBSITE FED COM BS 1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan 1	Database:	Total Directional Production DB

Planned Survey													
Measured Depth (usft)	INC (°)	AZI (°)	Vertical Depth (usft)	Local Coordinates +N-S (usft)	Local Coordinates +E-W (usft)	Map Coordinates Northing (usft)	Map Coordinates Easting (usft)	Geo Coordinates Latitude (°)	Geo Coordinates Longituge (°)	Vertical Section (usft)	Dogleg Rate ('/100usft)	Build Rate ('/100usft)	Turn Rate ('/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	419,559.07	557,806.58	32.1534351	-104.2801164	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	419,559.07	557,806.58	32.1534351	-104.2801164	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	419,559.07	557,806.58	32.1534351	-104.2801164	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	419,559.07	557,806.58	32.1534351	-104.2801164	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	419,559.07	557,806.58	32.1534351	-104.2801164	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	419,559.07	557,806.58	32.1534351	-104.2801164	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	419,559.07	557,806.58	32.1534351	-104.2801164	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	419,559.07	557,806.58	32.1534351	-104.2801164	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	419,559.07	557,806.58	32.1534351	-104.2801164	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	419,559.07	557,806.58	32.1534351	-104.2801164	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	419,559.07	557,806.58	32.1534351	-104.2801164	0.00	0.00	0.00	0.00
Begin Build													
1,100.00	2.00	44.37	1,099.98	1.25	1.22	419,560.32	557,807.80	32.1534386	-104.2801124	1.26	2.00	2.00	0.00
1,200.00	4.00	44.37	1,199.84	4.99	4.88	419,564.06	557,811.46	32.1534488	-104.2801006	5.05	2.00	2.00	0.00
1,300.00	6.00	44.37	1,299.45	11.22	10.97	419,570.29	557,817.56	32.1534659	-104.2800809	11.36	2.00	2.00	0.00
1,400.00	8.00	44.37	1,398.70	19.93	19.50	419,579.00	557,826.08	32.1534899	-104.2800534	20.18	2.00	2.00	0.00
1,500.00	10.00	44.37	1,497.47	31.11	30.43	419,590.18	557,837.02	32.1535206	-104.2800180	31.50	2.00	2.00	0.00
1,600.00	12.00	44.37	1,595.62	44.75	43.78	419,603.82	557,850.36	32.1535581	-104.2799749	45.31	2.00	2.00	0.00
1,700.00	14.00	44.37	1,693.06	60.83	59.51	419,619.90	557,866.09	32.1536023	-104.2799240	61.58	2.00	2.00	0.00
1,800.00	16.00	44.37	1,789.64	79.33	77.60	419,638.40	557,884.19	32.1536531	-104.2798655	80.31	2.00	2.00	0.00
1,900.00	18.00	44.37	1,885.27	100.23	98.05	419,659.30	557,904.63	32.1537105	-104.2797994	101.47	2.00	2.00	0.00
2,000.00	20.00	44.37	1,979.82	123.50	120.81	419,682.57	557,927.40	32.1537745	-104.2797258	125.03	2.00	2.00	0.00
2,100.00	22.00	44.37	2,073.17	149.12	145.87	419,708.19	557,952.46	32.1538448	-104.2796448	150.96	2.00	2.00	0.00
2,200.00	24.00	44.37	2,165.21	177.05	173.19	419,736.12	557,979.78	32.1539216	-104.2795564	179.24	2.00	2.00	0.00
2,300.00	26.00	44.37	2,255.84	207.26	202.75	419,766.33	558,009.33	32.1540046	-104.2794609	209.82	2.00	2.00	0.00
2,400.00	28.00	44.37	2,344.94	239.71	234.49	419,798.78	558,041.08	32.1540937	-104.2793583	242.68	2.00	2.00	0.00
2,500.00	30.00	44.37	2,432.39	274.36	268.39	419,833.43	558,074.98	32.1541890	-104.2792487	277.76	2.00	2.00	0.00
2,550.22	31.00	44.37	2,475.67	292.59	286.22	419,851.65	558,092.80	32.1542390	-104.2791910	296.21	2.00	2.00	0.00
EOB													
2,600.00	31.00	44.37	2,518.33	310.91	304.15	419,869.98	558,110.73	32.1542894	-104.2791331	314.76	0.00	0.00	0.00
2,700.00	31.00	44.37	2,604.04	347.74	340.17	419,906.80	558,146.75	32.1543906	-104.2790166	352.04	0.00	0.00	0.00
2,800.00	31.00	44.37	2,689.76	384.56	376.19	419,943.63	558,182.77	32.1544917	-104.2789002	389.32	0.00	0.00	0.00
2,900.00	31.00	44.37	2,775.47	421.38	412.21	419,980.45	558,218.79	32.1545929	-104.2787837	426.60	0.00	0.00	0.00
3,000.00	31.00	44.37	2,861.18	458.20	448.23	420,017.27	558,254.81	32.1546941	-104.2786673	463.88	0.00	0.00	0.00
3,100.00	31.00	44.37	2,946.90	495.02	484.25	420,054.09	558,290.83	32.1547952	-104.2785508	501.15	0.00	0.00	0.00
3,200.00	31.00	44.37	3,032.61	531.85	520.27	420,090.91	558,326.85	32.1548964	-104.2784343	538.43	0.00	0.00	0.00
3,300.00	31.00	44.37	3,118.32	568.67	556.29	420,127.74	558,362.87	32.1549976	-104.2783179	575.71	0.00	0.00	0.00

Planned Survey Report

Company:	Flat Creek Resources	Local Co-ordinate Reference:	Well BOMBSITE FED COM BS 1H
Project:	Eddy County, New Mexico	TVD Reference:	3340' GL + 26' KB @ 3366.00usft
Site:	Bombsite Pad	MD Reference:	3340' GL + 26' KB @ 3366.00usft
Well:	BOMBSITE FED COM BS 1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan 1	Database:	Total Directional Production DB

Planned Survey

Measured Depth (usft)	INC (°)	AZI (°)	Vertical Depth (usft)	Local Coordinates +N-S (usft)	Local Coordinates +E-W (usft)	Map Coordinates Northing (usft)	Map Coordinates Easting (usft)	Geo Coordinates Latitude (°)	Geo Coordinates Longtitude (°)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
3,400.00	31.00	44.37	3,204.03	605.49	592.31	420,164.56	558,398.90	32.1550988	-104.2782014	612.99	0.00	0.00	0.00
3,500.00	31.00	44.37	3,289.75	642.31	628.33	420,201.38	558,434.92	32.1551999	-104.2780850	650.27	0.00	0.00	0.00
3,600.00	31.00	44.37	3,375.46	679.13	664.35	420,238.20	558,470.94	32.1553011	-104.2779685	687.54	0.00	0.00	0.00
3,700.00	31.00	44.37	3,461.17	715.96	700.37	420,275.02	558,506.96	32.1554023	-104.2778521	724.82	0.00	0.00	0.00
3,800.00	31.00	44.37	3,546.88	752.78	736.39	420,311.85	558,542.98	32.1555034	-104.2777356	762.10	0.00	0.00	0.00
3,900.00	31.00	44.37	3,632.60	789.60	772.41	420,348.67	558,579.00	32.1556046	-104.2776191	799.38	0.00	0.00	0.00
4,000.00	31.00	44.37	3,718.31	826.42	808.43	420,385.49	558,615.02	32.1557058	-104.2775027	836.65	0.00	0.00	0.00
4,100.00	31.00	44.37	3,804.02	863.24	844.45	420,422.31	558,651.04	32.1558069	-104.2773862	873.93	0.00	0.00	0.00
4,200.00	31.00	44.37	3,889.74	900.07	880.47	420,459.13	558,687.06	32.1559081	-104.2772698	911.21	0.00	0.00	0.00
4,300.00	31.00	44.37	3,975.45	936.89	916.49	420,495.96	558,723.08	32.1560093	-104.2771533	948.49	0.00	0.00	0.00
4,400.00	31.00	44.37	4,061.16	973.71	952.52	420,532.78	558,759.10	32.1561105	-104.2770369	985.77	0.00	0.00	0.00
4,500.00	31.00	44.37	4,146.87	1,010.53	988.54	420,569.60	558,795.12	32.1562116	-104.2769204	1,023.04	0.00	0.00	0.00
4,600.00	31.00	44.37	4,232.59	1,047.35	1,024.56	420,606.42	558,831.14	32.1563128	-104.2768039	1,060.32	0.00	0.00	0.00
4,700.00	31.00	44.37	4,318.30	1,084.18	1,060.58	420,643.24	558,867.16	32.1564140	-104.2766875	1,097.60	0.00	0.00	0.00
4,800.00	31.00	44.37	4,404.01	1,121.00	1,096.60	420,680.07	558,903.18	32.1565151	-104.2765710	1,134.88	0.00	0.00	0.00
4,900.00	31.00	44.37	4,489.72	1,157.82	1,132.62	420,716.89	558,939.20	32.1566163	-104.2764546	1,172.16	0.00	0.00	0.00
5,000.00	31.00	44.37	4,575.44	1,194.64	1,168.64	420,753.71	558,975.22	32.1567175	-104.2763381	1,209.43	0.00	0.00	0.00
5,100.00	31.00	44.37	4,661.15	1,231.46	1,204.66	420,790.53	559,011.24	32.1568186	-104.2762216	1,246.71	0.00	0.00	0.00
5,200.00	31.00	44.37	4,746.86	1,268.28	1,240.68	420,827.35	559,047.26	32.1569198	-104.2761052	1,283.99	0.00	0.00	0.00
5,300.00	31.00	44.37	4,832.58	1,305.11	1,276.70	420,864.17	559,083.28	32.1570210	-104.2759887	1,321.27	0.00	0.00	0.00
5,400.00	31.00	44.37	4,918.29	1,341.93	1,312.72	420,901.00	559,119.30	32.1571221	-104.2758722	1,358.54	0.00	0.00	0.00
5,468.89	31.00	44.37	4,977.33	1,367.29	1,337.53	420,926.36	559,144.12	32.1571918	-104.2757920	1,384.22	0.00	0.00	0.00
EOH													
5,500.00	30.38	44.37	5,004.09	1,378.65	1,348.64	420,937.71	559,155.22	32.1572230	-104.2757561	1,395.72	2.00	-2.00	0.00
5,600.00	28.38	44.37	5,091.22	1,413.72	1,382.95	420,972.79	559,189.53	32.1573194	-104.2756452	1,431.22	2.00	-2.00	0.00
5,700.00	26.38	44.37	5,180.01	1,446.59	1,415.11	421,005.66	559,221.69	32.1574097	-104.2755412	1,464.51	2.00	-2.00	0.00
5,800.00	24.38	44.37	5,270.35	1,477.23	1,445.08	421,036.30	559,251.66	32.1574939	-104.2754443	1,495.53	2.00	-2.00	0.00
5,900.00	22.38	44.37	5,362.14	1,505.60	1,472.83	421,064.67	559,279.41	32.1575718	-104.2753546	1,524.24	2.00	-2.00	0.00
6,000.00	20.38	44.37	5,455.25	1,531.66	1,498.32	421,090.73	559,304.91	32.1576434	-104.2752721	1,550.63	2.00	-2.00	0.00
6,100.00	18.38	44.37	5,549.58	1,555.39	1,521.53	421,114.45	559,328.11	32.1577086	-104.2751971	1,574.64	2.00	-2.00	0.00
6,200.00	16.38	44.37	5,645.01	1,576.74	1,542.42	421,135.81	559,349.00	32.1577673	-104.2751296	1,596.26	2.00	-2.00	0.00
6,300.00	14.38	44.37	5,741.42	1,595.70	1,560.97	421,154.77	559,367.55	32.1578194	-104.2750696	1,615.46	2.00	-2.00	0.00
6,400.00	12.38	44.37	5,838.70	1,612.24	1,577.15	421,171.31	559,383.74	32.1578648	-104.2750173	1,632.21	2.00	-2.00	0.00
6,500.00	10.38	44.37	5,936.73	1,626.35	1,590.95	421,185.42	559,397.54	32.1579036	-104.2749727	1,646.49	2.00	-2.00	0.00
6,600.00	8.38	44.37	6,035.38	1,638.00	1,602.35	421,197.07	559,408.93	32.1579356	-104.2749358	1,658.29	2.00	-2.00	0.00
6,700.00	6.38	44.37	6,134.55	1,647.19	1,611.33	421,206.26	559,417.92	32.1579608	-104.2749068	1,667.58	2.00	-2.00	0.00
6,800.00	4.38	44.37	6,234.10	1,653.89	1,617.89	421,212.96	559,424.48	32.1579793	-104.2748855	1,674.37	2.00	-2.00	0.00
6,900.00	2.38	44.37	6,333.92	1,658.11	1,622.02	421,217.18	559,428.60	32.1579908	-104.2748722	1,678.64	2.00	-2.00	0.00

Planned Survey Report

Company:	Flat Creek Resources	Local Co-ordinate Reference:	Well BOMBSITE FED COM BS 1H
Project:	Eddy County, New Mexico	TVD Reference:	3340' GL + 26' KB @ 3366.00usft
Site:	Bombsite Pad	MD Reference:	3340' GL + 26' KB @ 3366.00usft
Well:	BOMBSITE FED COM BS 1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan 1	Database:	Total Directional Production DB

Planned Survey

Measured Depth (usft)	INC (°)	AZI (°)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Map Coordinates Northing (usft)	Map Coordinates Easting (usft)	Geo Coordinates Latitude (°)	Geo Coordinates Longtitude (°)	Vertical Dogleg Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
7,000.00	0.38	44.37	6,433.89	1,659.83	1,623.71	421,218.90	559,430.29	32.1579956	-104.2748668	1,680.39	2.00	-2.00	0.00
7,019.11	0.00	0.00	6,453.00	1,659.88	1,623.75	421,218.95	559,430.33	32.1579957	-104.2748666	1,680.43	2.00	-2.00	-232.18
Drop & Turn													
7,100.00	0.00	0.00	6,533.89	1,659.88	1,623.75	421,218.95	559,430.33	32.1579957	-104.2748666	1,680.43	0.00	0.00	0.00
7,199.68	0.00	0.00	6,633.57	1,659.88	1,623.75	421,218.95	559,430.33	32.1579957	-104.2748666	1,680.43	0.00	0.00	0.00
KOP													
7,225.00	3.04	0.73	6,658.88	1,660.55	1,623.76	421,219.62	559,430.34	32.1579976	-104.2748666	1,681.10	12.00	12.00	0.00
7,250.00	6.04	0.73	6,683.80	1,662.53	1,623.78	421,221.60	559,430.37	32.1580030	-104.2748665	1,683.08	12.00	12.00	0.00
7,275.00	9.04	0.73	6,708.58	1,665.81	1,623.83	421,224.88	559,430.41	32.1580120	-104.2748664	1,686.36	12.00	12.00	0.00
7,300.00	12.04	0.73	6,733.15	1,670.38	1,623.88	421,229.45	559,430.47	32.1580246	-104.2748662	1,690.93	12.00	12.00	0.00
7,325.00	15.04	0.73	6,757.46	1,676.23	1,623.96	421,235.30	559,430.54	32.1580407	-104.2748659	1,696.78	12.00	12.00	0.00
7,350.00	18.04	0.73	6,781.42	1,683.35	1,624.05	421,242.41	559,430.63	32.1580602	-104.2748656	1,703.90	12.00	12.00	0.00
7,375.00	21.04	0.73	6,804.98	1,691.71	1,624.16	421,250.77	559,430.74	32.1580832	-104.2748652	1,712.26	12.00	12.00	0.00
7,400.00	24.04	0.73	6,828.06	1,701.29	1,624.28	421,260.35	559,430.86	32.1581095	-104.2748648	1,721.84	12.00	12.00	0.00
7,425.00	27.04	0.73	6,850.62	1,712.06	1,624.42	421,271.13	559,431.00	32.1581392	-104.2748644	1,732.62	12.00	12.00	0.00
7,450.00	30.04	0.73	6,872.58	1,724.00	1,624.57	421,283.07	559,431.15	32.1581720	-104.2748638	1,744.56	12.00	12.00	0.00
7,475.00	33.04	0.73	6,893.88	1,737.08	1,624.74	421,296.15	559,431.32	32.1582079	-104.2748633	1,757.64	12.00	12.00	0.00
7,500.00	36.04	0.73	6,914.48	1,751.25	1,624.92	421,310.32	559,431.50	32.1582469	-104.2748627	1,771.81	12.00	12.00	0.00
7,525.00	39.04	0.73	6,934.30	1,766.48	1,625.11	421,325.55	559,431.70	32.1582887	-104.2748620	1,787.04	12.00	12.00	0.00
7,550.00	42.04	0.73	6,953.29	1,782.72	1,625.32	421,341.79	559,431.90	32.1583334	-104.2748613	1,803.29	12.00	12.00	0.00
7,575.00	45.04	0.73	6,971.41	1,799.94	1,625.54	421,359.01	559,432.12	32.1583807	-104.2748606	1,820.51	12.00	12.00	0.00
7,600.00	48.04	0.73	6,988.61	1,818.08	1,625.77	421,377.15	559,432.36	32.1584306	-104.2748598	1,838.65	12.00	12.00	0.00
7,625.00	51.04	0.73	7,004.83	1,837.10	1,626.01	421,396.17	559,432.60	32.1584829	-104.2748590	1,857.67	12.00	12.00	0.00
7,650.00	54.04	0.73	7,020.04	1,856.94	1,626.27	421,416.01	559,432.85	32.1585374	-104.2748581	1,877.51	12.00	12.00	0.00
7,675.00	57.04	0.73	7,034.18	1,877.55	1,626.53	421,436.62	559,433.12	32.1585941	-104.2748572	1,898.12	12.00	12.00	0.00
7,700.00	60.04	0.73	7,047.23	1,898.87	1,626.80	421,457.94	559,433.39	32.1586527	-104.2748563	1,919.44	12.00	12.00	0.00
7,725.00	63.04	0.73	7,059.14	1,920.84	1,627.08	421,479.91	559,433.67	32.1587131	-104.2748554	1,941.42	12.00	12.00	0.00
7,750.00	66.04	0.73	7,069.89	1,943.41	1,627.37	421,502.48	559,433.96	32.1587751	-104.2748544	1,963.99	12.00	12.00	0.00
7,775.00	69.04	0.73	7,079.44	1,966.51	1,627.67	421,525.58	559,434.25	32.1588386	-104.2748534	1,987.09	12.00	12.00	0.00
7,800.00	72.04	0.73	7,087.76	1,990.08	1,627.97	421,549.15	559,434.55	32.1589034	-104.2748524	2,010.66	12.00	12.00	0.00
7,825.00	75.04	0.73	7,094.85	2,014.05	1,628.28	421,573.12	559,434.86	32.1589693	-104.2748514	2,034.63	12.00	12.00	0.00
7,850.00	78.04	0.73	7,100.67	2,038.36	1,628.59	421,597.42	559,435.17	32.1590361	-104.2748503	2,058.94	12.00	12.00	0.00
7,875.00	81.04	0.73	7,105.21	2,062.94	1,628.90	421,622.00	559,435.48	32.1591037	-104.2748493	2,083.52	12.00	12.00	0.00
7,900.00	84.04	0.73	7,108.45	2,087.72	1,629.22	421,646.79	559,435.80	32.1591718	-104.2748482	2,108.31	12.00	12.00	0.00
7,925.00	87.04	0.73	7,110.40	2,112.64	1,629.54	421,671.71	559,436.12	32.1592403	-104.2748471	2,133.23	12.00	12.00	0.00
7,950.00	90.04	0.73	7,111.03	2,137.63	1,629.85	421,696.69	559,436.44	32.1593090	-104.2748460	2,158.22	12.00	12.00	0.00
7,955.73	90.73	0.73	7,111.00	2,143.35	1,629.93	421,702.42	559,436.51	32.1593247	-104.2748458	2,163.95	12.00	12.00	0.00
Landing													

Planned Survey Report

Company:	Flat Creek Resources	Local Co-ordinate Reference:	Well BOMBSITE FED COM BS 1H
Project:	Eddy County, New Mexico	TVD Reference:	3340' GL + 26' KB @ 3366.00usft
Site:	Bombsite Pad	MD Reference:	3340' GL + 26' KB @ 3366.00usft
Well:	BOMBSITE FED COM BS 1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan 1	Database:	Total Directional Production DB

Planned Survey

Measured Depth (usft)	INC (°)	AZI (°)	Vertical Depth (usft)	Local Coordinates +N/S (usft)	Local Coordinates +E/W (usft)	Map Coordinates Northing (usft)	Map Coordinates Easting (usft)	Geo Coordinates Latitude (°)	Geo Coordinates Longtitude (°)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,000.00	90.73	0.73	7,110.44	2,187.62	1,630.49	421,746.69	559,437.08	32.1594464	-104.2748439	2,208.21	0.00	0.00	0.00
8,100.00	90.73	0.73	7,109.17	2,287.60	1,631.77	421,846.67	559,438.36	32.1597213	-104.2748396	2,308.21	0.00	0.00	0.00
8,200.00	90.73	0.73	7,107.90	2,387.59	1,633.05	421,946.65	559,439.63	32.1599961	-104.2748353	2,408.20	0.00	0.00	0.00
8,300.00	90.73	0.73	7,106.64	2,487.57	1,634.33	422,046.64	559,440.91	32.1602710	-104.2748310	2,508.19	0.00	0.00	0.00
8,400.00	90.73	0.73	7,105.37	2,587.55	1,635.60	422,146.62	559,442.19	32.1605458	-104.2748267	2,608.18	0.00	0.00	0.00
8,500.00	90.73	0.73	7,104.10	2,687.54	1,636.88	422,246.61	559,443.47	32.1608207	-104.2748224	2,708.17	0.00	0.00	0.00
8,600.00	90.73	0.73	7,102.83	2,787.52	1,638.16	422,346.59	559,444.74	32.1610955	-104.2748181	2,808.17	0.00	0.00	0.00
8,700.00	90.73	0.73	7,101.57	2,887.50	1,639.44	422,446.57	559,446.02	32.1613703	-104.2748138	2,908.16	0.00	0.00	0.00
8,800.00	90.73	0.73	7,100.30	2,987.49	1,640.71	422,546.56	559,447.30	32.1616452	-104.2748095	3,008.15	0.00	0.00	0.00
8,900.00	90.73	0.73	7,099.03	3,087.47	1,641.99	422,646.54	559,448.58	32.1619200	-104.2748052	3,108.14	0.00	0.00	0.00
9,000.00	90.73	0.73	7,097.77	3,187.46	1,643.27	422,746.52	559,449.85	32.1621949	-104.2748009	3,208.13	0.00	0.00	0.00
9,100.00	90.73	0.73	7,096.50	3,287.44	1,644.55	422,846.51	559,451.13	32.1624697	-104.2747965	3,308.13	0.00	0.00	0.00
9,200.00	90.73	0.73	7,095.23	3,387.42	1,645.82	422,946.49	559,452.41	32.1627446	-104.2747922	3,408.12	0.00	0.00	0.00
9,300.00	90.73	0.73	7,093.97	3,487.41	1,647.10	423,046.48	559,453.69	32.1630194	-104.2747879	3,508.11	0.00	0.00	0.00
9,400.00	90.73	0.73	7,092.70	3,587.39	1,648.38	423,146.46	559,454.96	32.1632943	-104.2747836	3,608.10	0.00	0.00	0.00
9,500.00	90.73	0.73	7,091.43	3,687.38	1,649.66	423,246.44	559,456.24	32.1635691	-104.2747793	3,708.09	0.00	0.00	0.00
9,600.00	90.73	0.73	7,090.17	3,787.36	1,650.93	423,346.43	559,457.52	32.1638440	-104.2747750	3,808.09	0.00	0.00	0.00
9,700.00	90.73	0.73	7,088.90	3,887.34	1,652.21	423,446.41	559,458.80	32.1641188	-104.2747707	3,908.08	0.00	0.00	0.00
9,800.00	90.73	0.73	7,087.63	3,987.33	1,653.49	423,546.39	559,460.07	32.1643937	-104.2747664	4,008.07	0.00	0.00	0.00
9,900.00	90.73	0.73	7,086.37	4,087.31	1,654.77	423,646.38	559,461.35	32.1646685	-104.2747621	4,108.06	0.00	0.00	0.00
10,000.00	90.73	0.73	7,085.10	4,187.29	1,656.04	423,746.36	559,462.63	32.1649434	-104.2747578	4,208.05	0.00	0.00	0.00
10,100.00	90.73	0.73	7,083.83	4,287.28	1,657.32	423,846.35	559,463.91	32.1652182	-104.2747535	4,308.05	0.00	0.00	0.00
10,200.00	90.73	0.73	7,082.57	4,387.26	1,658.60	423,946.33	559,465.18	32.1654930	-104.2747492	4,408.04	0.00	0.00	0.00
10,300.00	90.73	0.73	7,081.30	4,487.25	1,659.88	424,046.31	559,466.46	32.1657679	-104.2747449	4,508.03	0.00	0.00	0.00
10,400.00	90.73	0.73	7,080.03	4,587.23	1,661.15	424,146.30	559,467.74	32.1660427	-104.2747406	4,608.02	0.00	0.00	0.00
10,500.00	90.73	0.73	7,078.76	4,687.21	1,662.43	424,246.28	559,469.02	32.1663176	-104.2747363	4,708.01	0.00	0.00	0.00
10,600.00	90.73	0.73	7,077.50	4,787.20	1,663.71	424,346.27	559,470.29	32.1665924	-104.2747320	4,808.01	0.00	0.00	0.00
10,700.00	90.73	0.73	7,076.23	4,887.18	1,664.99	424,446.25	559,471.57	32.1668673	-104.2747277	4,908.00	0.00	0.00	0.00
10,800.00	90.73	0.73	7,074.96	4,987.16	1,666.27	424,546.23	559,472.85	32.1671421	-104.2747234	5,007.99	0.00	0.00	0.00
10,900.00	90.73	0.73	7,073.70	5,087.15	1,667.54	424,646.22	559,474.13	32.1674170	-104.2747191	5,107.98	0.00	0.00	0.00
11,000.00	90.73	0.73	7,072.43	5,187.13	1,668.82	424,746.20	559,475.40	32.1676918	-104.2747148	5,207.97	0.00	0.00	0.00
11,100.00	90.73	0.73	7,071.16	5,287.12	1,670.10	424,846.18	559,476.68	32.1679667	-104.2747105	5,307.97	0.00	0.00	0.00
11,200.00	90.73	0.73	7,069.90	5,387.10	1,671.38	424,946.17	559,477.96	32.1682415	-104.2747061	5,407.96	0.00	0.00	0.00
11,300.00	90.73	0.73	7,068.63	5,487.08	1,672.65	425,046.15	559,479.24	32.1685164	-104.2747018	5,507.95	0.00	0.00	0.00
11,400.00	90.73	0.73	7,067.36	5,587.07	1,673.93	425,146.14	559,480.51	32.1687912	-104.2746975	5,607.94	0.00	0.00	0.00
11,500.00	90.73	0.73	7,066.10	5,687.05	1,675.21	425,246.12	559,481.79	32.1690661	-104.2746932	5,707.93	0.00	0.00	0.00
11,600.00	90.73	0.73	7,064.83	5,787.04	1,676.49	425,346.10	559,483.07	32.1693409	-104.2746889	5,807.93	0.00	0.00	0.00
11,700.00	90.73	0.73	7,063.56	5,887.02	1,677.76	425,446.09	559,484.35	32.1696157	-104.2746846	5,907.92	0.00	0.00	0.00

Planned Survey Report

Company:	Flat Creek Resources	Local Co-ordinate Reference:	Well BOMBSITE FED COM BS 1H
Project:	Eddy County, New Mexico	TVD Reference:	3340' GL + 26' KB @ 3366.00usft
Site:	Bombsite Pad	MD Reference:	3340' GL + 26' KB @ 3366.00usft
Well:	BOMBSITE FED COM BS 1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan 1	Database:	Total Directional Production DB

Planned Survey

Measured Depth (usft)	INC (°)	AZI (°)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Map Coordinates Northing (usft)	Map Coordinates Easting (usft)	Geo Coordinates Latitude (°)	Geo Coordinates Longitude (°)	Vertical Dogleg Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
11,800.00	90.73	0.73	7,062.30	5,987.00	1,679.04	425,546.07	559,485.63	32.1698906	-104.2746803	6,007.91	0.00	0.00	0.00
11,900.00	90.73	0.73	7,061.03	6,086.99	1,680.32	425,646.05	559,486.90	32.1701654	-104.2746760	6,107.90	0.00	0.00	0.00
12,000.00	90.73	0.73	7,059.76	6,186.97	1,681.60	425,746.04	559,488.18	32.1704403	-104.2746717	6,207.89	0.00	0.00	0.00
12,100.00	90.73	0.73	7,058.49	6,286.95	1,682.87	425,846.02	559,489.46	32.1707151	-104.2746674	6,307.88	0.00	0.00	0.00
12,200.00	90.73	0.73	7,057.23	6,386.94	1,684.15	425,946.01	559,490.74	32.1709900	-104.2746631	6,407.88	0.00	0.00	0.00
12,300.00	90.73	0.73	7,055.96	6,486.92	1,685.43	426,045.99	559,492.01	32.1712648	-104.2746588	6,507.87	0.00	0.00	0.00
12,400.00	90.73	0.73	7,054.69	6,586.91	1,686.71	426,145.97	559,493.29	32.1715397	-104.2746545	6,607.86	0.00	0.00	0.00
12,500.00	90.73	0.73	7,053.43	6,686.89	1,687.98	426,245.96	559,494.57	32.1718145	-104.2746502	6,707.85	0.00	0.00	0.00
12,600.00	90.73	0.73	7,052.16	6,786.87	1,689.26	426,345.94	559,495.85	32.1720894	-104.2746459	6,807.84	0.00	0.00	0.00
12,700.00	90.73	0.73	7,050.89	6,886.86	1,690.54	426,445.93	559,497.12	32.1723642	-104.2746416	6,907.84	0.00	0.00	0.00
12,800.00	90.73	0.73	7,049.63	6,986.84	1,691.82	426,545.91	559,498.40	32.1726391	-104.2746373	7,007.83	0.00	0.00	0.00
12,900.00	90.73	0.73	7,048.36	7,086.82	1,693.09	426,645.89	559,499.68	32.1729139	-104.2746330	7,107.82	0.00	0.00	0.00
13,000.00	90.73	0.73	7,047.09	7,186.81	1,694.37	426,745.88	559,500.96	32.1731888	-104.2746287	7,207.81	0.00	0.00	0.00
13,100.00	90.73	0.73	7,045.83	7,286.79	1,695.65	426,845.86	559,502.23	32.1734636	-104.2746244	7,307.80	0.00	0.00	0.00
13,200.00	90.73	0.73	7,044.56	7,386.78	1,696.93	426,945.84	559,503.51	32.1737384	-104.2746200	7,407.80	0.00	0.00	0.00
13,300.00	90.73	0.73	7,043.29	7,486.76	1,698.20	427,045.83	559,504.79	32.1740133	-104.2746157	7,507.79	0.00	0.00	0.00
13,400.00	90.73	0.73	7,042.03	7,586.74	1,699.48	427,145.81	559,506.07	32.1742881	-104.2746114	7,607.78	0.00	0.00	0.00
13,500.00	90.73	0.73	7,040.76	7,686.73	1,700.76	427,245.80	559,507.34	32.1745630	-104.2746071	7,707.77	0.00	0.00	0.00
13,600.00	90.73	0.73	7,039.49	7,786.71	1,702.04	427,345.78	559,508.62	32.1748378	-104.2746028	7,807.76	0.00	0.00	0.00
13,700.00	90.73	0.73	7,038.23	7,886.70	1,703.31	427,445.76	559,509.90	32.1751127	-104.2745985	7,907.76	0.00	0.00	0.00
13,800.00	90.73	0.73	7,036.96	7,986.68	1,704.59	427,545.75	559,511.18	32.1753875	-104.2745942	8,007.75	0.00	0.00	0.00
13,900.00	90.73	0.73	7,035.69	8,086.66	1,705.87	427,645.73	559,512.45	32.1756624	-104.2745899	8,107.74	0.00	0.00	0.00
14,000.00	90.73	0.73	7,034.42	8,186.65	1,707.15	427,745.71	559,513.73	32.1759372	-104.2745856	8,207.73	0.00	0.00	0.00
14,100.00	90.73	0.73	7,033.16	8,286.63	1,708.42	427,845.70	559,515.01	32.1762121	-104.2745813	8,307.72	0.00	0.00	0.00
14,200.00	90.73	0.73	7,031.89	8,386.61	1,709.70	427,945.68	559,516.29	32.1764869	-104.2745770	8,407.72	0.00	0.00	0.00
14,300.00	90.73	0.73	7,030.62	8,486.60	1,710.98	428,045.67	559,517.56	32.1767618	-104.2745727	8,507.71	0.00	0.00	0.00
14,400.00	90.73	0.73	7,029.36	8,586.58	1,712.26	428,145.65	559,518.84	32.1770366	-104.2745684	8,607.70	0.00	0.00	0.00
14,500.00	90.73	0.73	7,028.09	8,686.57	1,713.54	428,245.63	559,520.12	32.1773114	-104.2745641	8,707.69	0.00	0.00	0.00
14,600.00	90.73	0.73	7,026.82	8,786.55	1,714.81	428,345.62	559,521.40	32.1775863	-104.2745598	8,807.68	0.00	0.00	0.00
14,700.00	90.73	0.73	7,025.56	8,886.53	1,716.09	428,445.60	559,522.67	32.1778611	-104.2745555	8,907.68	0.00	0.00	0.00
14,800.00	90.73	0.73	7,024.29	8,986.52	1,717.37	428,545.59	559,523.95	32.1781360	-104.2745512	9,007.67	0.00	0.00	0.00
14,900.00	90.73	0.73	7,023.02	9,086.50	1,718.65	428,645.57	559,525.23	32.1784108	-104.2745468	9,107.66	0.00	0.00	0.00
15,000.00	90.73	0.73	7,021.76	9,186.49	1,719.92	428,745.55	559,526.51	32.1786857	-104.2745425	9,207.65	0.00	0.00	0.00
15,100.00	90.73	0.73	7,020.49	9,286.47	1,721.20	428,845.54	559,527.78	32.1789605	-104.2745382	9,307.64	0.00	0.00	0.00
15,200.00	90.73	0.73	7,019.22	9,386.45	1,722.48	428,945.52	559,529.06	32.1792354	-104.2745339	9,407.64	0.00	0.00	0.00
15,300.00	90.73	0.73	7,017.96	9,486.44	1,723.76	429,045.50	559,530.34	32.1795102	-104.2745296	9,507.63	0.00	0.00	0.00
15,400.00	90.73	0.73	7,016.69	9,586.42	1,725.03	429,145.49	559,531.62	32.1797851	-104.2745253	9,607.62	0.00	0.00	0.00

Planned Survey Report

Company:	Flat Creek Resources	Local Co-ordinate Reference:	Well BOMBSITE FED COM BS 1H
Project:	Eddy County, New Mexico	TVD Reference:	3340' GL + 26' KB @ 3366.00usft
Site:	Bombsite Pad	MD Reference:	3340' GL + 26' KB @ 3366.00usft
Well:	BOMBSITE FED COM BS 1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan 1	Database:	Total Directional Production DB

Planned Survey

Measured Depth (usft)	INC (°)	AZI (°)	Vertical Depth (usft)	Local Coordinates		Map Coordinates		Geo Coordinates		Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
				+N-S (usft)	+E-W (usft)	Northing (usft)	Easting (usft)	Latitude (°)	Longitude (°)				
15,500.00	90.73	0.73	7,015.42	9,686.40	1,726.31	429,245.47	559,532.90	32.1800599	-104.2745210	9,707.61	0.00	0.00	0.00
15,600.00	90.73	0.73	7,014.16	9,786.39	1,727.59	429,345.46	559,534.17	32.1803348	-104.2745167	9,807.60	0.00	0.00	0.00
15,700.00	90.73	0.73	7,012.89	9,886.37	1,728.87	429,445.44	559,535.45	32.1806096	-104.2745124	9,907.60	0.00	0.00	0.00
15,800.00	90.73	0.73	7,011.62	9,986.36	1,730.14	429,545.42	559,536.73	32.1808844	-104.2745081	10,007.59	0.00	0.00	0.00
15,849.04	90.73	0.73	7,011.00	10,035.39	1,730.77	429,594.45	559,537.35	32.1810192	-104.2745060	10,056.62	0.00	0.00	0.00

PBHL

Design Targets

Target Name	- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N-S (usft)	+E-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
BOMBSITE FED COM	- Shape	0.00	0.00	0.00	0.00	0.00	419,559.07	557,806.59	32.1534351	-104.2801164
- plan hits target center										
- Point										
BOMBSITE FED COM	- plan misses target center by 7011.52usft at 15849.04usft	0.00	0.00	0.00	9,950.37	1,729.67	429,509.44	559,536.26	32.1807855	-104.2745097
- Point	MD (7011.00 TVD, 10035.39 N, 1730.77 E)									
BOMBSITE FED COM	- plan misses target center by 90.95usft at 7199.68usft	0.00	0.00	6,633.57	1,568.94	1,622.60	421,128.01	559,429.19	32.1577457	-104.2748705
- Point	MD (6633.57 TVD, 1659.88 N, 1623.75 E)									
BOMBSITE FED COM	- plan hits target center	0.00	0.00	7,011.00	10,035.39	1,730.77	429,594.45	559,537.36	32.1810192	-104.2745060
- Point										
BOMBSITE FED COM	- plan misses target center by 0.01usft at 7955.72usft	0.00	0.00	7,111.00	2,143.35	1,629.93	421,702.42	559,436.52	32.1593247	-104.2748458
- Point	MD (7111.00 TVD, 2143.35 N, 1629.93 E)									

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
26.00	26.00	CASTILE			
1,021.00	1,021.00	TOP SALT			
1,661.87	1,656.00	BASE SALT			
1,811.82	1,801.00	BELL CANYON			
1,879.76	1,866.00	LAMAR/DELAWARE MOUNTIAN G			
2,906.45	2,781.00	CHERRY CANYON			
4,061.47	3,771.00	BRUSHY CANYON			
5,839.02	5,306.00	BONE SPRING LIME			
6,862.03	6,296.00	1ST BONE SPRING SAND			
7,027.11	6,461.00	2ND BONE SPRING SHALE			
7,363.29	6,794.00	2ND BONE SPRING SAND			
7,634.94	7,011.00	TD			
7,943.91	7,111.00	TARGET			

Planned Survey Report

Company:	Flat Creek Resources	Local Co-ordinate Reference:	Well BOMBSITE FED COM BS 1H
Project:	Eddy County, New Mexico	TVD Reference:	3340' GL + 26' KB @ 3366.00usft
Site:	Bombsite Pad	MD Reference:	3340' GL + 26' KB @ 3366.00usft
Well:	BOMBSITE FED COM BS 1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan 1	Database:	Total Directional Production DB

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			Comment
		+N-S (usft)	+E/W (usft)		
1000	1000	0	0		Begin Build
2550	2476	293	286		EOB
5469	4977	1367	1338		EOH
7019	6453	1660	1624		Drop & Turn
7200	6634	1660	1624		KOP
7956	7111	2143	1630		Landing
15,849	7011	10,035	1731		PBHL

Checked By: _____ Approved By: _____ Date: _____

PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Flat Creek Resources LLC
LOCATION:	Section 3, T.25 S., R.26 E., NMPM
COUNTY:	Eddy County, New Mexico

WELL NAME & NO.:	Bombsite BS Fed Com 1H
ATS/API ID:	ATS-25-2063
APD ID:	10400106032
Sundry ID:	N/a

WELL NAME & NO.:	Bombsite BS Fed Com 2H
ATS/API ID:	ATS-25-2062
APD ID:	10400106062
Sundry ID:	N/a

WELL NAME & NO.:	Bombsite BS Fed Com 3H
ATS/API ID:	ATS-25-2061
APD ID:	10400106064
Sundry ID:	N/a

WELL NAME & NO.:	Bombsite BS Fed Com 4H
ATS/API ID:	ATS-25-2060
APD ID:	10400106065
Sundry ID:	N/a

COA

H2S	No <input type="button" value="▼"/>		
Potash	None <input type="button" value="▼"/>	None <input type="button" value="▼"/>	
Cave/Karst Potential	Low <input type="button" value="▼"/>		
Cave/Karst Potential	<input checked="" type="checkbox"/> Critical		
Variance	<input type="checkbox"/> None	<input checked="" type="checkbox"/> Flex Hose	<input type="checkbox"/> Other
Wellhead	Conventional and Multibowl <input type="button" value="▼"/>		
Other	<input type="checkbox"/> 4 String <input type="checkbox"/> 5 String	Capitan Reef None <input type="button" value="▼"/>	<input type="checkbox"/> WIPP
Other	Pilot Hole None <input type="button" value="▼"/>	<input type="checkbox"/> Open Annulus	
Cementing	Contingency Squeeze None <input type="button" value="▼"/>	Echo-Meter None <input type="button" value="▼"/>	Primary Cement Squeeze None <input type="button" value="▼"/>
Special Requirements	<input type="checkbox"/> Water Disposal/Injection	<input checked="" type="checkbox"/> COM	<input type="checkbox"/> Unit
Special Requirements	<input type="checkbox"/> Batch Sundry	Waste Prevention Waste MP <input type="button" value="▼"/>	
Special Requirements Variance	<input checked="" type="checkbox"/> BOPE Break Testing <input type="checkbox"/> Offline BOPE Testing	<input type="checkbox"/> Offline Cementing	<input type="checkbox"/> Casing Clearance

A. HYDROGEN SULFIDE

Hydrogen Sulfide (H₂S) monitors shall be installed prior to drilling out the surface shoe. If H₂S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet **43 CFR part 3170 Subpart 3176**, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

B. CASING

1. The **10-3/4** inch surface casing shall be set at approximately **400 feet** (a minimum of 70 feet into the Rustler Anhydrite and above the salt when present, and below usable fresh water) and cemented to the surface. The surface hole shall be **14 3/4** inch in diameter.
 - 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 **7-5/8** inch intermediate casing is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above.
Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.
 - ❖ In Critical Cave/Karst Areas cement must come to surface on the first three casing strings.
3. The minimum required fill of cement behind the **5-1/2** inch production casing is:
 - Cement to surface. If cement does not circulate, contact the appropriate BLM office. Operator shall provide method of verification.
Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.

Cement excess is less than 25%, more cement is required if washout occurs. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.

C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).
2.

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 **3000 (3M)** psi. **Annular which shall be tested to 2100 (70% Working Pressure)** psi.
- b. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the **7-5/8** inch intermediate casing shoe shall be **5000 (5M)** psi.

Option 2:

Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the **10-3/4** 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.

- 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. 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.
- e. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.

D. SPECIAL REQUIREMENT (S)

Communityization Agreement

- The operator will submit a Communityization 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 Communityization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communityization 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.
- The operator will submit an as-drilled survey well plat of the well completion, but are not limited to, those specified in **43 CFR part 3170 Subpart 3171**
- 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 Communityization Agreement number is known, it shall also be on the sign.

BOPE Break Testing Variance (Approved)

- BOPE Break Testing is ONLY permitted for 5M psi MASP or less. **(Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP)**
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer **(575-706-2779)** prior to the commencement of any BOPE Break Testing operations.
- The BLM is to be contacted **(575-361-2822 Eddy County)** 4 hours prior to BOPE tests.
- As a minimum, a full BOPE test shall be performed at 21-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per **43 CFR part 3170 Subpart 3172**.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.
- The BOPE testing shall be conducted while the rig is stationary.

Intermediate Break Testing Section:

- Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation.
- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).

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)

Eddy County

EMAIL or call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,
BLM_NM_CFO_DrillingNotifications@BLM.GOV
(575) 361-2822

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 **43 CFR part 3170 Subpart 3172** 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.

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 of both lead and tail cement, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. The casing integrity 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 integrity 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 **43 CFR part 3170 Subpart 3172** and **API STD 53 Sec. 5.3**.

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 43 CFR 3172.6(b)(9) 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 cement), 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 cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)

- c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to **43 CFR part 3170 Subpart 3172** 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 8 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 **43 CFR part 3170 Subpart 3172**.

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.

Long Vo (LVO) 11/5/2025

Hydrogen Sulfide Drilling

Operations Plan

Flat Creek Resources

1 H2S safety instructions to the following:

- Characteristics of H2S
- Physical effects and hazards
- Principal and operation of H2S detectors, warning system and briefing areas
- Evacuation procedures, routes and first aid
- Proper use of safety equipment & life support systems
- Essential personnel meeting medical evaluation criteria will receive additional training on the proper use of 30min pressure demand air packs

2 H2S Detection and Alarm Systems:

- H2S sensor/detectors to be located on the drilling rig floor, in the base of the sub structure / cellar area, on the mud pits in the shale shaker area. Additional H2S detectors may be placed as deemed necessary
- An audio alarm system will be installed on the derrick floor and in the doghouse

3 Windsocks and / Wind Streamers:

- Windsocks at mud pit area should be high enough to be visible
- Windsock on the rig floor and / top of doghouse should be high enough to be visible

4 Condition Flags and Signs:

- Warning sign on access road to location
- Flags to be displayed on sign at entrance to location
 - Green Flag – Normal Safe Operation Condition
 - Yellow Flag – Potential Pressure and Danger
 - Red Flag – Danger (H2S present in dangerous concentrations) Only H2S trained personnel admitted on location

5 Well Control Equipment:

- See Drilling Operations Plan Schematics

6 Communication:

- While working under masks chalkboards will be used for communications
- Hand signals will be used where chalk board is inappropriate
- Two way radio will be used to communicate off location in case of emergency help is required. In most cases cellular telephones will be available at most drilling foreman's trailer or living quarters.

7 Drilling Stem Testing:

- No DST cores are planned at this time

8 Drilling contractor supervisor will be required to be familiar with the effects H2S has on tubulars good and other mechanical equipment

9 If H2S is encountered, mud system will be altered if necessary to maintain control of formation. A mud gas separator will be brought into service along with H2S scavengers if necessary

11 Emergency Contacts

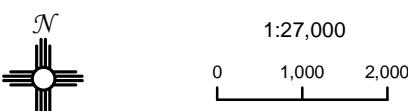
Emergency Contacts		
Carlsbad Police Department	575.887.7551	911
Carlsbad Medical Center	575.887.4100	911
Eddy County Fire Service	575.628.5450	911
Eddy County Sheriff	575.887.7551	911
Lea County Fire Service	575.391.2983	911
Lea County Sheriff	575.396.3611	911
Jal Police Department	575.395.2121	911
Jal Fire Department	575.395.2221	911
Flat Creek Resources	817.731.4100	

Flat Creek Resources, LLC

Bombsite BS Fed Com H2S Map

Section 3, Township 25S, Range 26E
Eddy County, New Mexico

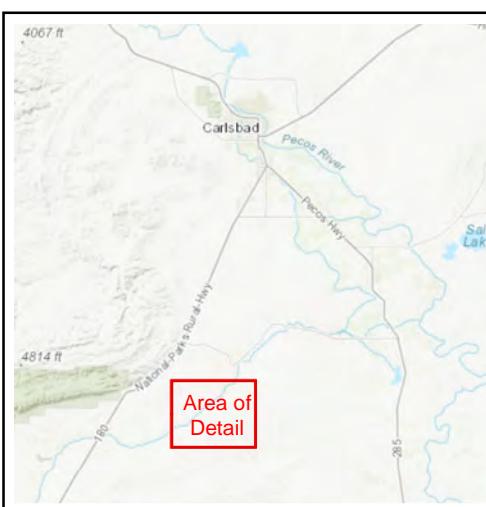
Pad Center Point



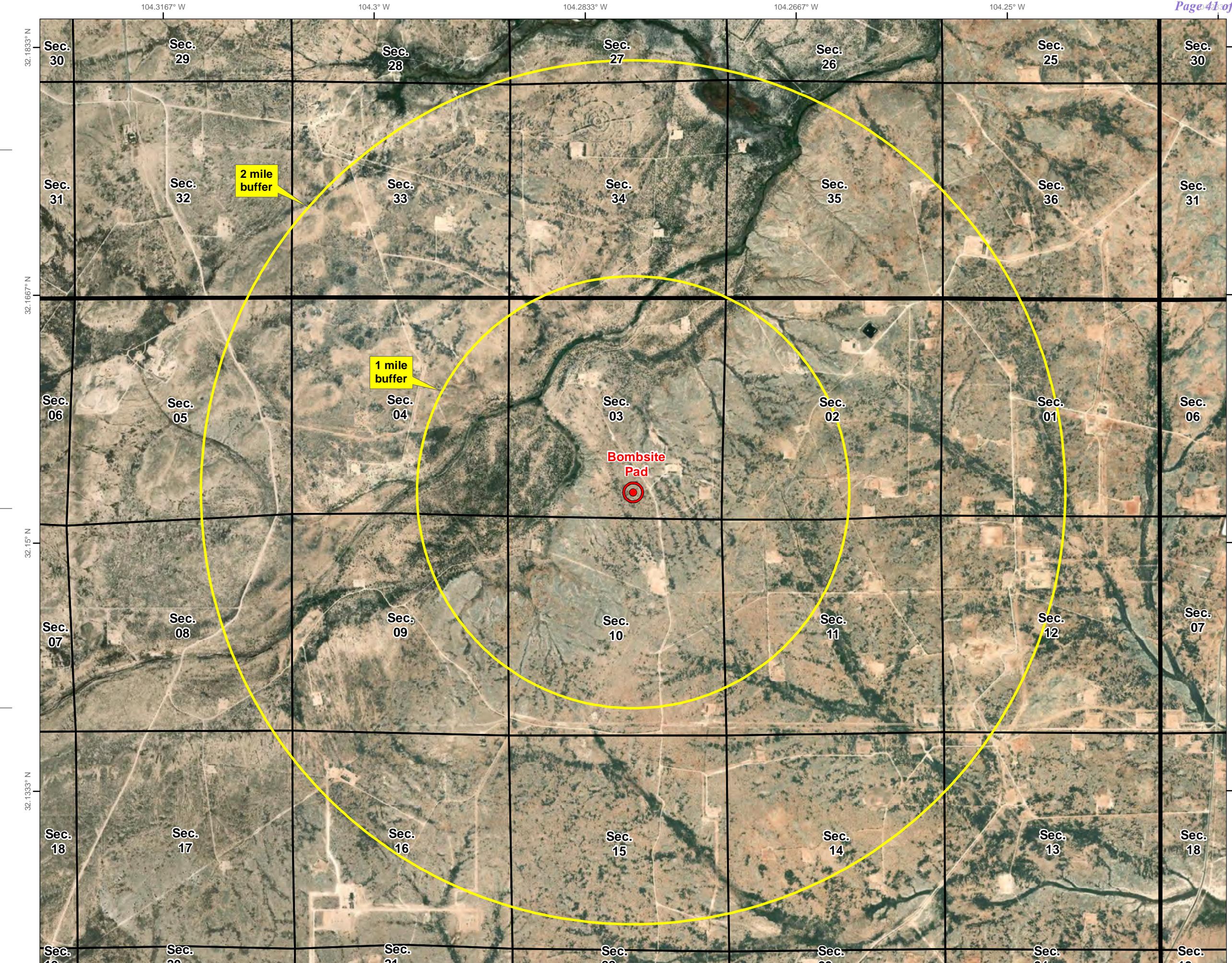
NAD 1983 New Mexico State Plane East
FIPS 3001 Feet



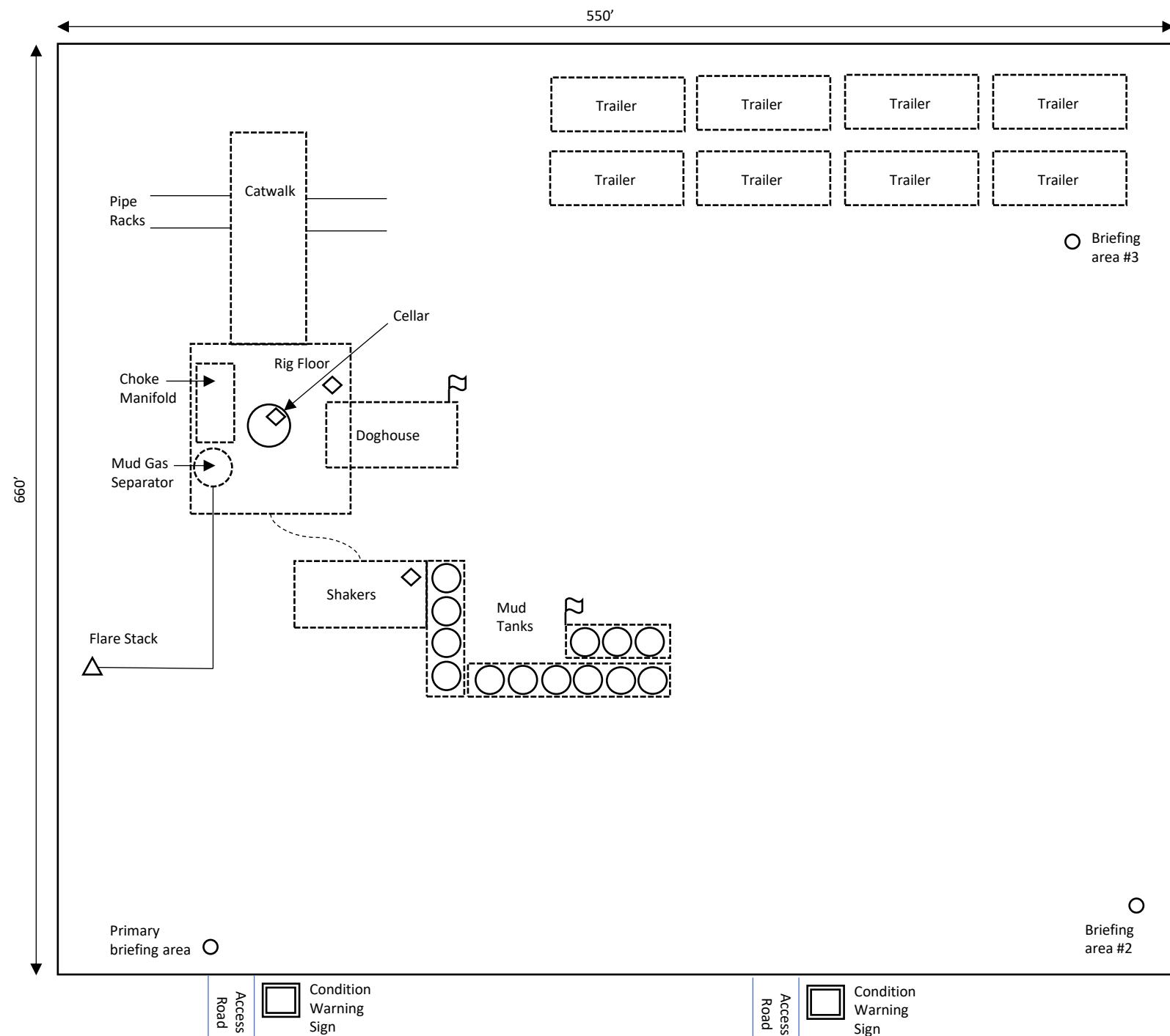
Prepared by Permits West, Inc., July 1, 2025
for Flat Creek Resources, LLC



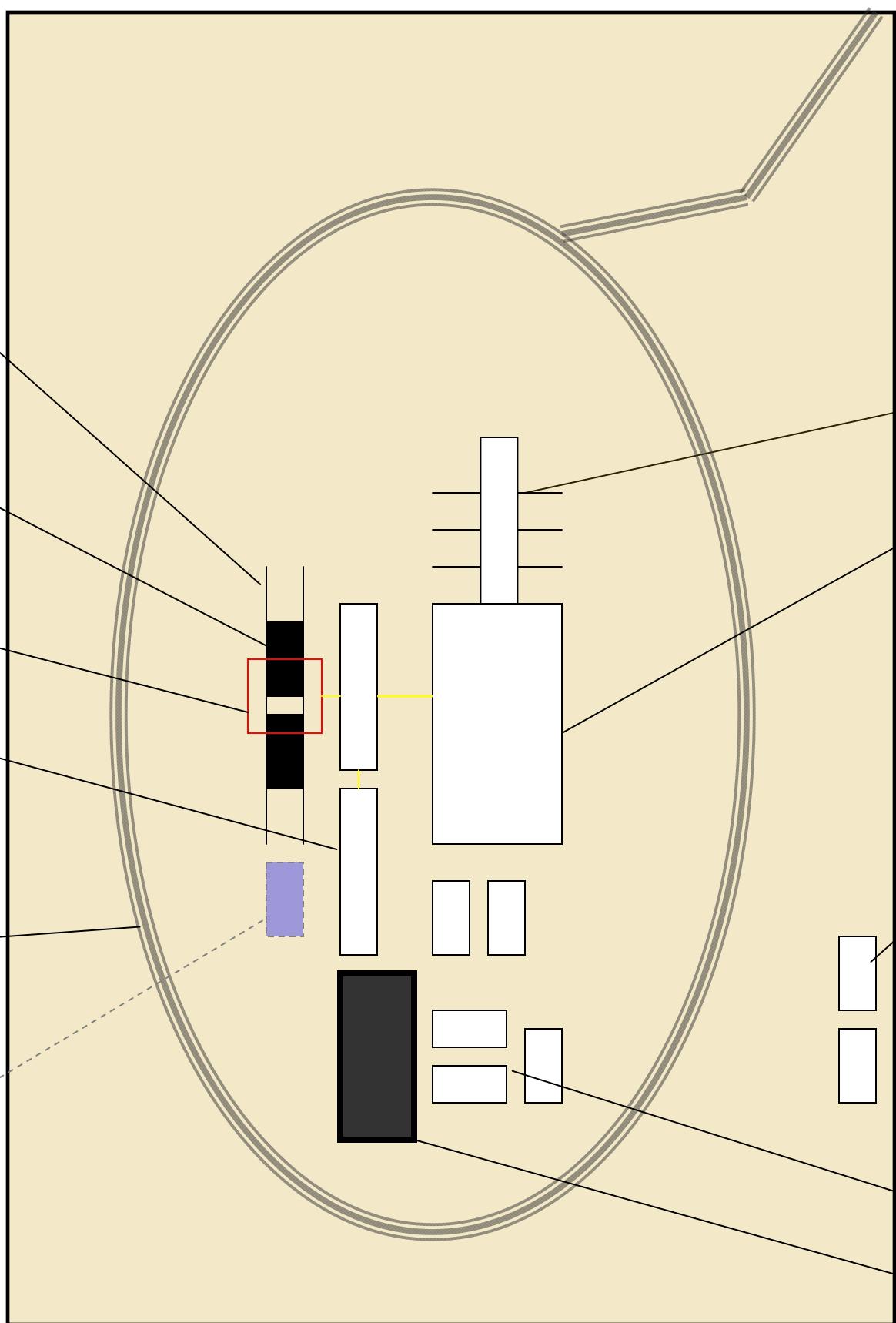
Area of
Detail



Rig Diagram
Bombsite BS Fed Com Pad
Flat Creek Resources, LLC
3-25S-26E
Eddy County, NM



FLAT CREEK
RESOURCES



Schematic Closed Loop Drilling Rig*

1. Pipe Rack
2. Drill Rig
3. House Trailers/ Offices
4. Generator/Fuel/Storage
5. Overflow-Frac Tank
6. Skids
7. Roll Offs
8. Hopper or Centrifuge
9. Mud Tanks
10. Loop Drive
11. Generator (only for use with centrifuge)

*Not drawn to scale: Closed loop system requires at least 30 feet beyond mud tanks. Ideally 60 feet would be available

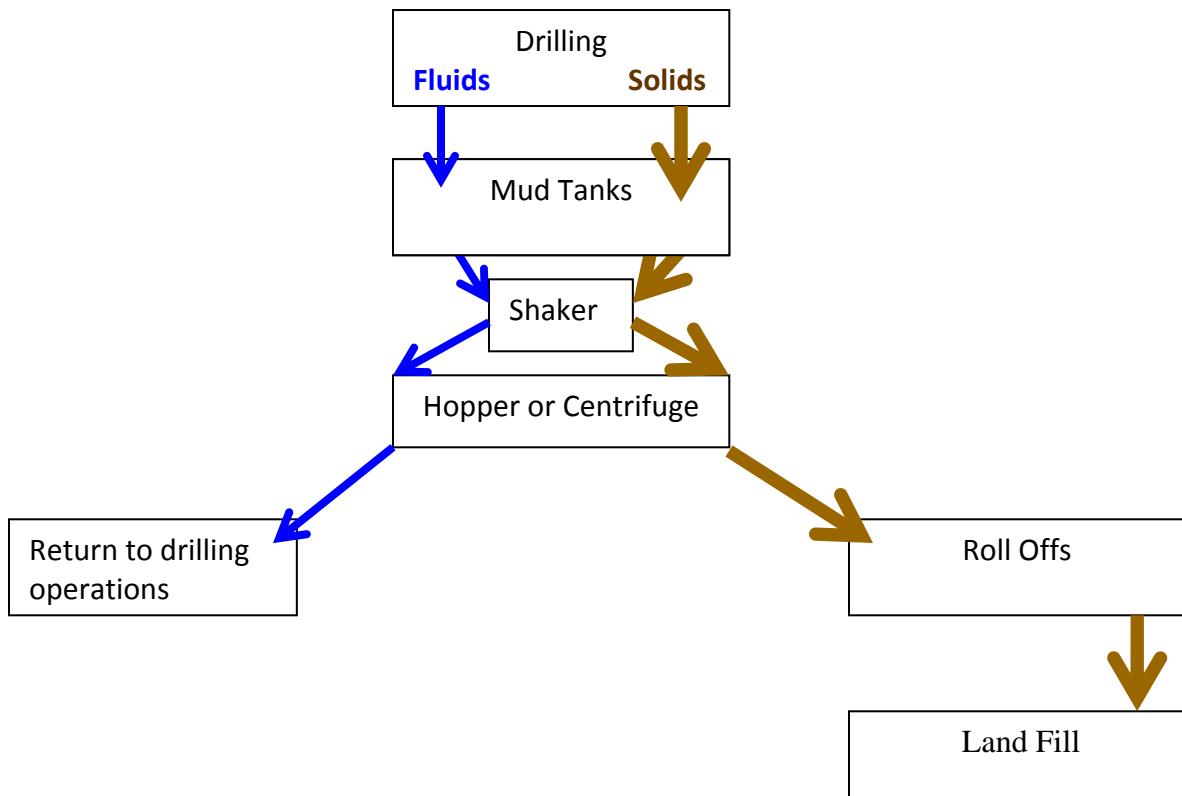


Above: Centrifugal Closed Loop System



Closed Loop Drilling System: Mud tanks to right (1)
Hopper in air to settle out solids (2)
Water return pipe (3)
Shaker between hopper and mud tanks (4)
Roll offs on skids (5)

Flow Chart for Drilling Fluids and Solids



Photos Courtesy of Gandy Corporation Oil Field Service

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

ACKNOWLEDGMENTS

Action 524568

ACKNOWLEDGMENTS

Operator: Flat Creek Resources, LLC 777 Main St. Fort Worth, TX 76102	OGRID: 374034
	Action Number: 524568
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

ACKNOWLEDGMENTS

<input checked="" type="checkbox"/>	I hereby certify that no additives containing PFAS chemicals will be added to the completion or recompletion of this well.
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CONDITIONS

Action 524568

CONDITIONS

Operator: Flat Creek Resources, LLC 777 Main St. Fort Worth, TX 76102	OGRID: 374034
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CONDITIONS

Created By	Condition	Condition Date
permitsw	Cement is required to circulate on both surface and intermediate1 strings of casing.	11/8/2025
permitsw	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	11/8/2025
ward.rikala	Notify the OCD 24 hours prior to casing & cement.	12/19/2025
ward.rikala	File As Drilled C-102 and a directional Survey with C-104 completion packet.	12/19/2025
ward.rikala	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string.	12/19/2025
ward.rikala	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.	12/19/2025