Form 3160-3 (June 2015) UNITED STATES				FORM AP OMB No. 1 Expires: Janua 5. Lease Serial No.	004-01	137
DEPARTMENT OF THE II BUREAU OF LAND MANA				NMNM138868		
APPLICATION FOR PERMIT TO D				6. If Indian, Allotee or	Tribe N	Name
	EENTER			7. If Unit or CA Agreer	nent, N	Name and No.
	ngle Zone	Multiple Zone		8. Lease Name and We	ll No.	
		intercipite Zone		PHANTOM BANK 31	FED	
				202H		
2. Name of Operator FLAT CREEK RESOURCES LLC				9. API Well No. 30-015-53705		
3a. Address	3b. Phone M	No. (include area cod	le)	10. Field and Pool, or H	Explora	atory
777 Main Street, Suite 3600, Fort Worth, TX 76102	(817) 310-	8570		WILDCAT G-015 S26	30010	O/BONE SPRI
4. Location of Well (Report location clearly and in accordance w	2	1 /		11. Sec., T. R. M. or Bl SEC 32/T26S/R31E/		Survey or Area
At surface LOT 4 / 520 FSL / 300 FWL / LAT 32.00159			~ /	SEC 32/1203/R31E/I		
At proposed prod. zone LOT 2 / 380 FSL / 30 FWL / LAT		/ LONG -103.8260	24	12 Country on Dominh		13. State
14. Distance in miles and direction from nearest town or post offi 22 miles	ice*			12. County or Parish EDDY		NM
15. Distance from proposed* location to nearest property or lease line, ft. 300 feet	16. No of a	cres in lease	17. Spacin 264.48	ng Unit dedicated to this	well	
(Also to nearest drig. unit line, if any) 18. Distance from proposed location*	19. Propose	ed Depth	20. BLM/	//BIA Bond No. in file		
to nearest well, drilling, completed, applied for, on this lease, ft.				NMB001675		
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3114 feet	22. Approx 09/01/2022	imate date work will 2	start*	23. Estimated duration90 days		
	24. Atta	chments				
The following, completed in accordance with the requirements of (as applicable)	f Onshore Oi	and Gas Order No. 1	l, and the H	lydraulic Fracturing rule	per 43	CFR 3162.3-3
 Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest System) 	m Lands, the	Item 20 above).	1	s unless covered by an ex	tisting	bond on file (see
SUPO must be filed with the appropriate Forest Service Office).	6. Such other site sp BLM.		mation and/or plans as ma		equested by the
25. Signature (Electronic Submission)		e (Printed/Typed) N WOOD / Ph: (81	7) 310-85		ate 5/13/20	022
Title	I			I		
President Approved by (Signature)	N			0	ate	
(Electronic Submission)		e (Printed/Typed) Y LAYTON / Ph: (5	75) 234-59		ate 3/23/20	023
Title Assistant Field Manager Lands & Minerals	Offic Carls	e bad Field Office				
Application approval does not warrant or certify that the applicar applicant to conduct operations thereon. Conditions of approval, if any, are attached.	nt holds legal	or equitable title to the	hose rights	in the subject lease whic	h woul	d entitle the
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, n of the United States any false, fictitious or fraudulent statements of					depart	ment or agency
	VED W	TH CONDIT	IONS	Dean R 0	M 4/13/2	2023
(Continued on page 2)				*(Instr	uction	ns on page 2)

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State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

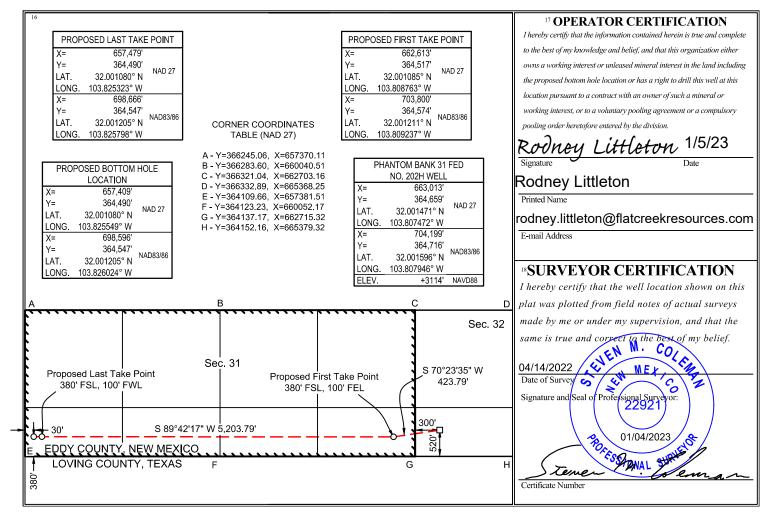
AMENDED REPORT

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WELL LOCATION AND ACREAGE DEDICATION PLAT

30-	¹ API Num 015-53		² Pool 0 98319	Code	WC 015 G06 S242630A BONE SPRING								
⁴ Proper	ty Code				⁶ Well Number								
333	919		PHANTOM BANK 31 FED										
⁷ OGR	ID No.		⁸ Operator Name										
374	034				3114'								
	¹⁰ Surface Location												
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/	West line	County			
L4	32	26 SOUTH	31 EAST, N.M.P.M.		520	SOUTH	300	WE	ST	EDDY			
	-		¹¹ Bottom H	Iole Locat	ion If Diff	erent From S	Surface						
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/V	West line	County			
L2	31	26 SOUTH	31 EAST, N.M.P.M.	WE	ST	EDDY							
¹² Dedicated A	cres ¹³ Join	nt or Infill	¹⁴ Consolidation Code										
264.48													

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



		nergy, Minerals	ate of New Me and Natural Re	X1CO DT26 sources Depart r36		Subm Via E	it Electronically -permitting
		1220	Conservation D South St. Fran Inta Fe, NM 87	ncis Dr.			
	N			GEMENT PI	LAN		
This Natural Gas Manager	ment Plan m	ust be submitted v	with each Applica	tion for Permit to D	Drill (APD) for a	new or	recompleted well.
			<u>n 1 – Plan D</u> Effective May 25				
I. Operator:	ek Resource	s, LLC	OGRID:	374034	Date:	03 / 3	31 _/ 2023
If Other, please describe: _							
		c c 1	1	. 1 11	11 1.	1 1 1 1	
					vells proposed to	be dril	led or proposed to
					Anticipated Gas MCF/D		Anticipated oduced Water BBL/D
be recompleted from a sing Well Name	gle well pad	or connected to a	central delivery	point. Anticipated	Anticipated		Anticipated oduced Water
be recompleted from a sing Well Name Phantom Bank 31 Fed 101H	gle well pad	Or connected to a ULSTR D-32-T26S-R31E D-32-T26S-R31E	Footages	oint. Anticipated Oil BBL/D	Anticipated Gas MCF/D 3800 3800		Anticipated oduced Water BBL/D
be recompleted from a sing	gle well pad	OF CONNECTED TO A ULSTR	Footages	Anticipated Oil BBL/D 800 800 800	Anticipated Gas MCF/D 3800 3800 3800		Anticipated oduced Water BBL/D 3000 3000 3000
Phantom Bank 31 Fed 101H Phantom Bank 31 Fed 102H Phantom Bank 31 Fed 201H Phantom Bank 31 Fed 202H	gle well pad	or connected to a ULSTR D-32-T26S-R31E D-32-T26S-R31E D-32-T26S-R31E D-32-T26S-R31E	central delivery Footages 520' FNL 300' FWL 550' FSL 300' FWL 550' FNL 300' FWL 550' FNL 300' FWL	Anticipated Oil BBL/D 800 800	Anticipated Gas MCF/D 3800 3800 3800 3800	Pr	Anticipated oduced Water BBL/D 3000 3000 3000 3000
be recompleted from a sing Well Name Phantom Bank 31 Fed 101H Phantom Bank 31 Fed 102H Phantom Bank 31 Fed 201H	gle well pad API nt Name: Provide the	Or connected to a ULSTR D-32-T26S-R31E D-32-T26S-R31E D-32-T26S-R31E D-32-T26S-R31E Phantom Bank Batt c following inform	Footages 520' FNL 300' FWL 550' FSL 300' FWL 550' FSL 300' FWL 520' FSL 300' FWL 520' FSL 300' FWL tery tery TD Reached	Anticipated Oil BBL/D 800 800 800 800 wor recompleted w ral delivery point.	Anticipated Gas MCF/D 3800 3800 3800 3800 [See 1 rell or set of wells	Pr 9.15.27 s propos	Anticipated oduced Water BBL/D 3000 3000 3000 7.9(D)(1) NMAC] sed to be drilled on First Production
Well Name Phantom Bank 31 Fed 101H Phantom Bank 31 Fed 101H Phantom Bank 31 Fed 201H Phantom Bank 31 Fed 201H Phantom Bank 31 Fed 202H IV. Central Delivery Poin IV. Anticipated Schedule: proposed to be recomplete Well Name	gle well pad API nt Name: : Provide the ed from a sin	Or connected to a ULSTR D-32-T26S-R31E D-32-T26S-R31E D-32-T26S-R31E D-32-T26S-R31E Phantom Bank Batt c following inform gle well pad or co Spud Date	Example 2 central delivery provide the second secon	Anticipated Oil BBL/D 800 800 800 800 w or recompleted w ral delivery point. Completion Commencement	Anticipated Gas MCF/D 3800 3800 3800 3800 [See 1 rell or set of wells	Pr 9.15.27 s propos	Anticipated oduced Water BBL/D 3000 3000 3000 7.9(D)(1) NMAC] sed to be drilled on First Production Date
De recompleted from a sing Well Name Phantom Bank 31 Fed 101H Phantom Bank 31 Fed 102H Phantom Bank 31 Fed 201H Phantom Bank 31 Fed 202H IV. Central Delivery Poin V. Anticipated Schedule: proposed to be recomplete Well Name Phantom Bank 31 Fed 101H	gle well pad API nt Name: : Provide the ed from a sin	Or connected to a ULSTR D-32-T26S-R31E D-32-T26S-R31E D-32-T26S-R31E D-32-T26S-R31E Phantom Bank Batt c following inform gle well pad or co Spud Date October 1, 2023	Example 2 Constrained and the second	Anticipated Oil BBL/D 800 800 800 800 w or recompleted w ral delivery point. Completion Commencement January 1, 2024	Anticipated Gas MCF/D 3800 3800 3800 [See 1 rell or set of wells Date Initial I Back I January 30	Pr 9.15.27 s propos	Anticipated oduced Water BBL/D 3000 3000 3000 7.9(D)(1) NMAC] sed to be drilled on First Production Date Feb 5, 2024
De recompleted from a sing Well Name Phantom Bank 31 Fed 101H Phantom Bank 31 Fed 102H Phantom Bank 31 Fed 201H Phantom Bank 31 Fed 202H IV. Central Delivery Poin V. Anticipated Schedule: proposed to be recomplete Well Name	gle well pad API nt Name: : Provide the ed from a sin	Or connected to a ULSTR D-32-T26S-R31E D-32-T26S-R31E D-32-T26S-R31E D-32-T26S-R31E Phantom Bank Batt c following inform gle well pad or co Spud Date	Example 2 Constrained and the second	Anticipated Oil BBL/D 800 800 800 800 w or recompleted w ral delivery point. Completion Commencement	Anticipated Gas MCF/D 3800 3800 3800 [See 1 rell or set of wells Date Initial I Back I	Pr 9.15.27 s propos Flow Date 0, 2024 0, 2024	Anticipated oduced Water BBL/D 3000 3000 3000 7.9(D)(1) NMAC] sed to be drilled on First Production Date

32-T26S-R31

during active and planned maintenance.

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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. \Box 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 \Box will \Box 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 \Box does \Box 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).

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

XIV. Confidentiality: \Box 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.

<u>Section 3 - Certifications</u> <u>Effective May 25, 2021</u>

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

 \square 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

 \Box 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. \Box 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. \Box 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: Rodiney Littleton Printed Name: Rodiney Littleton Title: VP of Operations E-mail Address: rodney.littleton@flatcreekresources.com Date: March 31, 2023 Phone: 817-310-8578 OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form) Approved By: Title: Conditions of Approval:

VI. SEPARATION EQUIPMENT

Flat Creek Resources, LLC, has installed:

- 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 and 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 units
 - 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 toa 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.



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

APD ID: 10400085342

Operator Name: FLAT CREEK RESOURCES LLC

Well Name: PHANTOM BANK 31 FED

Well Type: OIL WELL

Well Number: 202H Well Work Type: Drill

Submission Date: 05/13/2022

Highlighted data reflects the most recent changes

03/23/2023

Drilling Plan Data Report

Show Final Text

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
8612148	QUATERNARY	3114	0	0	OTHER : Caliche	USEABLE WATER	N
8612149	RUSTLER ANHYDRITE	2293	821	821	ANHYDRITE	NONE	N
8612150	TOP SALT	1619	1495	1495	SALT	NONE	N
8612151	BASE OF SALT	-464	3578	3578	SALT	NONE	N
8612152	LAMAR	-664	3778	3778	LIMESTONE	NATURAL GAS, OIL	N
8612153	BELL CANYON	-702	3816	3816	SANDSTONE	NATURAL GAS, OIL	N
8612154	CHERRY CANYON	-1619	4733	4734	SANDSTONE	NATURAL GAS, OIL	N
8616859	BRUSHY CANYON	-2966	6080	6083	SANDSTONE	NATURAL GAS, OIL	N
8612155	BONE SPRING LIME	-4581	7695	7700	LIMESTONE	NATURAL GAS, OIL	N
8612156	UPPER AVALON SHALE	-4933	8047	8053	SHALE	NATURAL GAS, OIL	N
8612147	AVALON SAND	-5225	8339	8400	OTHER, SHALE : Lower	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. **Requesting Variance?** YES

Variance request: Variance is requested to use a co-flex line between the BOP and choke manifold instead of using a 4" OD steel line.

Testing Procedure: All BOPE will be tested in accordance with Onshore Oil & Gas Order 2. 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

Well Name: PHANTOM BANK 31 FED

Well Number: 202H

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 (add scale to be use) 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_Diagram_v2_20230119090321.pdf

BOP Diagram Attachment:

BOP_10M_20220513071955.pdf

BOP_Wellhead_Testing_v2_20230119090336.pdf

Section 3 - Casing

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	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	17.5	13.375	NEW	API	N	0	950	0	950	3114	2164	950	J-55	54.5	BUTT	1.12 5	1.12 5	DRY	1.6	DRY	1.6
2	INTERMED IATE	12.2 5	10.75	NEW	NON API	N	0	3700	0	3700	3129	-586	3700	J-55		OTHER - BTC-SC	1.12 5	1.12 5	DRY	1.6	DRY	1.6
3	INTERMED IATE	9.87 5	7.625	NEW	API	N	0	7790	0	7786	3129	-4672		OTH ER	29.7	BUTT	1.12 5	1.12 5	DRY	1.6	DRY	1.6
4	PRODUCTI ON	6.75	5.5	NEW	NON API	N	0	13822	0	8393	3129	-5279	13822	OTH ER		OTHER - TCBC-HT- SC	1.12 5	1.12 5	DRY	1.6	DRY	1.6

Casing Attachments

Operator Name: FLAT CREEK RESOURCES LLC

Well Name: PHANTOM BANK 31 FED

Well Number: 202H

Casing Attachments

Casing ID: 1 String SURFACE
Inspection Document:
Spec Document:
Tapered String Spec:
Casing Design Assumptions and Worksheet(s):
Casing_Design_Worksheet_v2_20230119090423.pdf
Casing ID: 2 String INTERMEDIATE
Inspection Document:
Spec Document:
10.75_Casing_Spec_Special_Clearance_0.400_J55_Casing_03072022_20230119090503.pdf
Tapered String Spec:
Casing Design Assumptions and Worksheet(s):
Casing_Design_Worksheet_v2_20230119090522.pdf
Casing ID: 3 String INTERMEDIATE
Inspection Document:
Spec Document:
Tapered String Spec:
Casing Design Assumptions and Worksheet(s):

Well Name: PHANTOM BANK 31 FED

Well Number: 202H

Casing Attachments

Casing ID: 4 String PRODUCTION

Inspection Document:

Spec Document:

5.5_Casing_Spec_Special_Clearance_TCBC_HT_5.9_OD_20220513072130.pdf

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Casing_Design_Worksheet_v2_20230119090633.pdf

Section 4 - Cement

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	650	520	1.68	12.8	874	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		650	950	340	1.34	14.8	456	100	Class C	1% Calcium chloride + 0.25 lb/sk cellophane flake
INTERMEDIATE	Lead		0	3000	445	1.68	12.8	748	35	35/65 Poz- Premium C	5% bwow Sodium chloride + 6% bentonite gel + 0.4% CPT-503P + 0.125 lbs/sk Dura fiber
INTERMEDIATE	Tail		3000	3700	120	1.74	1.5	209	35	Class C	1% calcium chloride + 4% bentonite gel + 0.4% CPT-503P + 0.125 lbs/sk Dura fiber
INTERMEDIATE	Lead		0	7290	785	2.7	10.6	2120	0	Class H	15% bwoc HGS-4k28 + 5% bwoc SFA + 0.2% bwoc GXT-C + 0.3% bwoc fluid loss additive + 0.3% bwoc dispersant
INTERMEDIATE	Tail		7290	7790	90	1.74	13.5	157	35	Class C	0.4% CPT-24
PRODUCTION	Lead		0	7290	260	2.7	10.6	702	0	Class H	15% bwoc HGS-4k28 + 5% bwoc SFA +

Well Name: PHANTOM BANK 31 FED

Well Number: 202H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
											0.2% bwoc GXT-C + 0.3% bwoc fluid loss additive + 0.3% bwoc dispersant
PRODUCTION	Tail		7290	1382 2	450	1.42	13.2	639	35	35/65 Poz- Premium H	0.2% CPT-23

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 Onshore Order #2:

Diagram of the equipment for the circulating system in accordance with Onshore Order #2:

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

Top Depth	Bottom Depth	Mud Type	Min Weight (Ibs/gal)	Max Weight (Ibs/gal)	Density (lbs/cu ft)	Gel Strength (Ibs/100 sqft)	Hd	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	950	OTHER : Fresh Water Spud Mud	8.4	8.4							
950	3700	OTHER : Brine Water	10	10							
3700	7910	OTHER : Cut Brine	8.7	8.7							
7910	1382 2	OTHER : Cut Brine	8.7	8.7							

Well Name: PHANTOM BANK 31 FED

Well Number: 202H

Section 6 - Test, Logging, Coring

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

Production tests include 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: 3863

Anticipated Surface Pressure: 2016

Anticipated Bottom Hole Temperature(F): 148

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

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations

Phantom_H2S_Plan_20220513072349.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

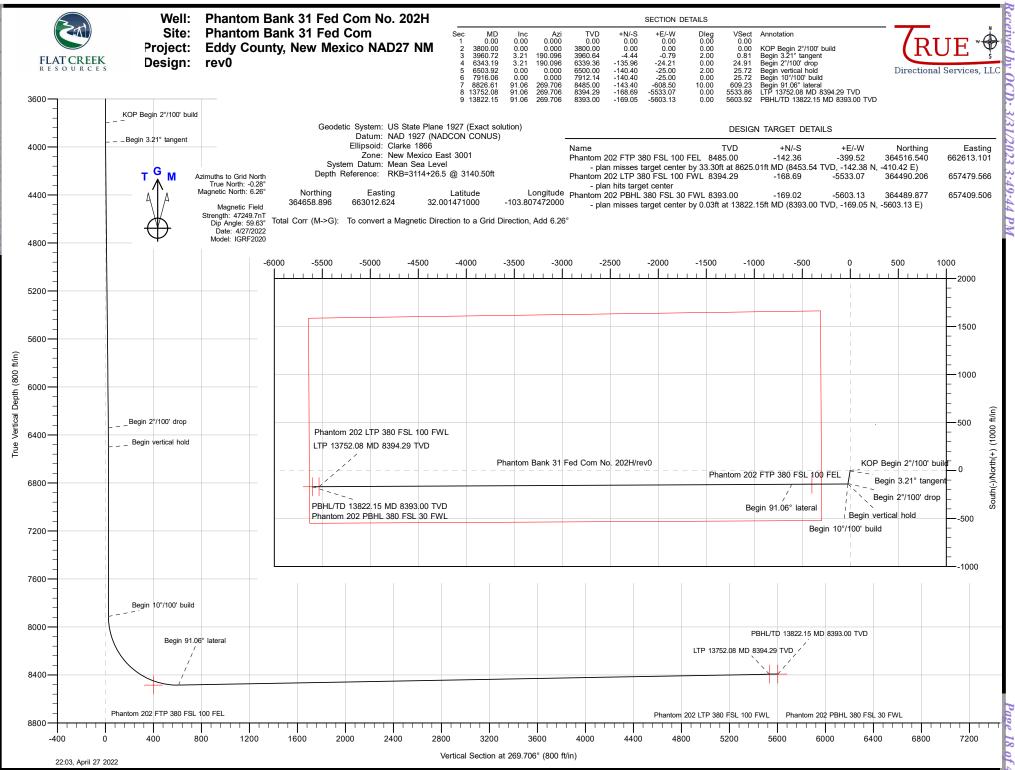
Phantom_202H_Horizontal_Plan_20220513072359.pdf

Other proposed operations facets description:

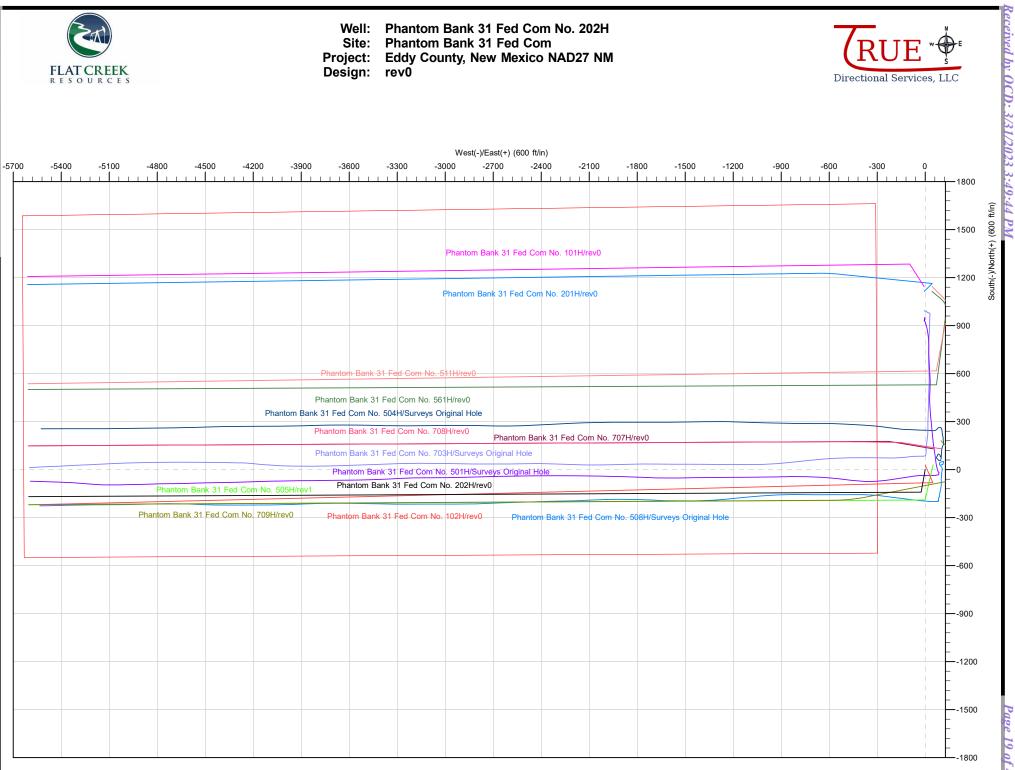
Other proposed operations facets attachment:

Phantom_202H_Anticollision_Report_20220513072425.pdf Wellhead_Diagram_4string_20220513072442.pdf Choke_Hose_Certs_v2_RDC_20230119091020.pdf Phantom_202H_Drill_Plan_v2_20230119101117.pdf

Other Variance attachment:



SunSpuri



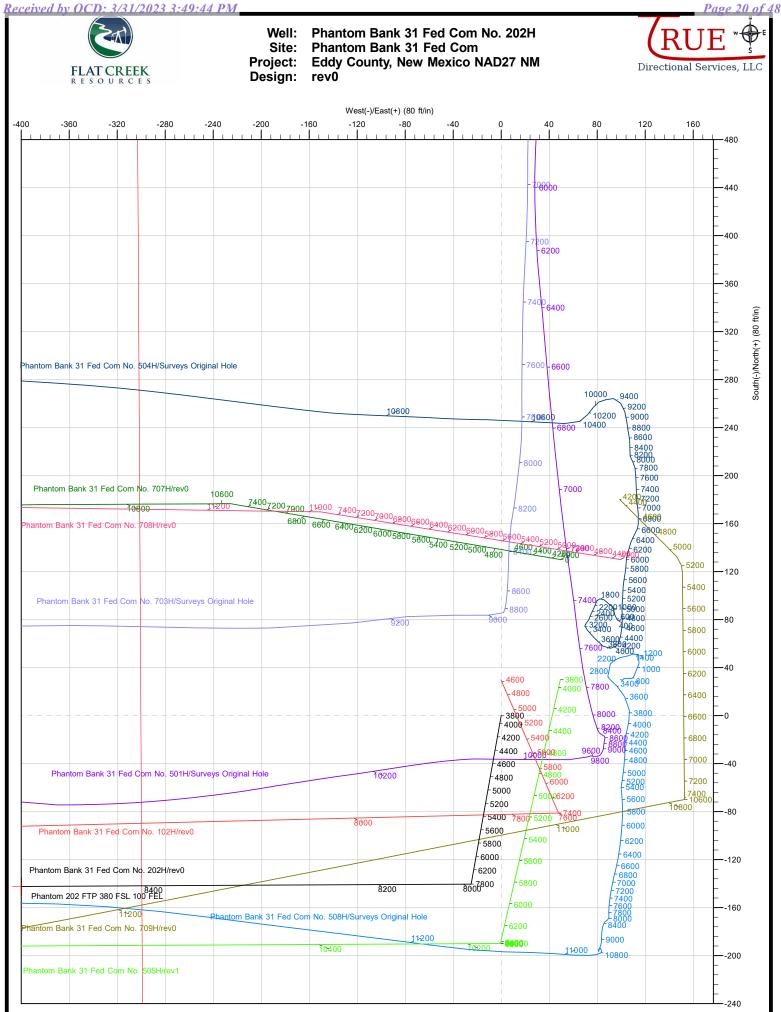
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Planning Report

Database: Company: Project: Site: Well: Wellbore: Design:	Eddy County Phantom Ba	esources, LLC v, New Mexico nk 31 Fed Cor nk 31 Fed Cor	NAD27 NM n	TVD Reference MD Reference North Reference	e:	Well Phantom B RKB=3114+26.5 RKB=3114+26.5 Grid Minimum Curva	5 @ 3140.50ft
Project	Eddy County,	New Mexico N	NAD27 NM				
Geo Datum:	US State Plane NAD 1927 (NA New Mexico Ea	DCON CONUS	,	System Datum	:	Mean Sea Level	
Site	Phantom Ban	k 31 Fed Com					
Site Position: From: Position Uncertainty:	Lat/Long	0.00 ft	Northing: Easting: Slot Radius:	365,652.3 663,006.8 13-3	Lutitu		32.004202000 -103.807475000
Well	Phantom Ban	k 31 Fed Com	No. 202H, Surf loc:	520 FSL 300 FWL Se	ction 32-T26S-R3	1E	
Well Position	+N/-S +E/-W	0.00 ft 0.00 ft	Northing: Easting:		64,658.896 usft 63,012.623 usft	Latitude: Longitude:	32.001471000 -103.807472000
Position Uncertainty Grid Convergence:		0.00 ft 0.28 °	Wellhead Elev	vation:	ft	Ground Level:	3,114.00 ft
Wellbore	Original Hole	•					
Magnetics	Model Na	ame	Sample Date	Declination (°)	ı	Dip Angle (°)	Field Strength (nT)
	IG	RF2020	4/27/2022		6.54	59.63	47,249.71610809
Design	rev0						
Audit Notes:							
Version:			Phase:	PLAN	Tie On De	pth:	0.00
Vertical Section:		Depth	From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)		ection (°)
			0.00	0.00	0.00	26	9.706
Plan Survey Tool Pro	gram	Date 4/27	/2022				
Depth From (ft)	Depth To (ft)	Survey (Well	bore)	Tool Name	Rem	arks	
1 0.00	13.822.15	rev0 (Original	Hole)	MWD			

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Planning Report

Database:	DB_Feb2822	Local Co-ordinate Reference:	Well Phantom Bank 31 Fed Com No. 202H
Company:	Flat Creek Resources, LLC	TVD Reference:	RKB=3114+26.5 @ 3140.50ft
Project:	Eddy County, New Mexico NAD27 NM	MD Reference:	RKB=3114+26.5 @ 3140.50ft
Site:	Phantom Bank 31 Fed Com	North Reference:	Grid
Well:	Phantom Bank 31 Fed Com No. 202H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		

Plan Sections

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,800.00	0.00	0.000	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,960.72	3.21	190.096	3,960.64	-4.44	-0.79	2.00	2.00	0.00	190.10	
6,343.19	3.21	190.096	6,339.36	-135.96	-24.21	0.00	0.00	0.00	0.00	
6,503.92	0.00	0.000	6,500.00	-140.40	-25.00	2.00	-2.00	0.00	180.00	
7,916.06	0.00	0.000	7,912.14	-140.40	-25.00	0.00	0.00	0.00	0.00	
8,826.61	91.06	269.706	8,485.00	-143.40	-608.50	10.00	10.00	-9.92	269.71	
13,752.08	91.06	269.706	8,394.29	-168.69	-5,533.07	0.00	0.00	0.00	0.00	Phantom 202 LTP 3
13,822.15	91.06	269.706	8,393.00	-169.05	-5,603.13	0.00	0.00	0.00	0.00	Phantom 202 PBHI



	Database:	DB Feb2822	Local Co-ordinate Reference:	Well Phantom Bank 31 Fed Com No. 202H
- 1	Database:	—	Local Co-ordinate Reference:	Well Fliantoni Bank ST Feu Contino. 2020
•	Company:	Flat Creek Resources, LLC	TVD Reference:	RKB=3114+26.5 @ 3140.50ft
	Project:	Eddy County, New Mexico NAD27 NM	MD Reference:	RKB=3114+26.5 @ 3140.50ft
	Site:	Phantom Bank 31 Fed Com	North Reference:	Grid
١	Well:	Phantom Bank 31 Fed Com No. 202H	Survey Calculation Method:	Minimum Curvature
١	Wellbore:	Original Hole		
	Design:	rev0		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.000	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.000	200.00	0.00			0.00	0.00	0.00
					0.00	0.00			
300.00	0.00	0.000	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.000	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.000	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.000	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.000	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.000	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.000	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.000	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.000	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.000	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.000	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.000	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.000	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.000	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.000		0.00			0.00		
			1,700.00		0.00	0.00		0.00	0.00
1,800.00 1,900.00	0.00 0.00	0.000 0.000	1,800.00 1,900.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
2,000.00	0.00	0.000	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.000	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.000	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.000	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.000	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.000	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.000	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.000	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.000	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.000	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.000	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.000	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.000	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.000	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.000	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.000	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.000	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.000	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.000	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP Begin 2									
3,900.00	2.00	190.096	3,899.98	-1.72	-0.31	0.31	2.00	2.00	0.00
3,960.72	3.21	190.096	3,960.64	-4.44	-0.79	0.81	2.00	2.00	0.00
Begin 3.21° t									
4,000.00	3.21	190.096	3,999.85	-6.61	-1.18	1.21	0.00	0.00	0.00
4,100.00	3.21	190.096	4,099.70	-12.13	-2.16	2.22	0.00	0.00	0.00
4,200.00	3.21	190.096	4,199.54	-17.65	-3.14	3.23	0.00	0.00	0.00
4,300.00	3.21	190.096	4,299.38	-23.17	-4.13	4.24	0.00	0.00	0.00
4,400.00	3.21	190.096	4,399.22	-28.69	-5.11	5.26	0.00	0.00	0.00
4,500.00	3.21	190.096	4,499.07	-34.21	-6.09	6.27	0.00	0.00	0.00
4,600.00	3.21	190.096	4,598.91	-39.73	-7.07	7.28	0.00	0.00	0.00
4,700.00	3.21	190.096	4,698.75	-45.25	-8.06	8.29	0.00	0.00	0.00
4,800.00	3.21	190.096	4,798.60	-50.77	-9.04	9.30	0.00	0.00	0.00
4,900.00	3.21	190.096	4,898.44	-56.29	-10.02	10.31	0.00	0.00	0.00
-,000.00	3.21	190.096	4,998.28	-61.81	-11.01	11.32	0.00	0.00	0.00

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Database:	DB_Feb2822	Local Co-ordinate Reference:	Well Phantom Bank 31 Fed Com No. 202H
Company:	Flat Creek Resources, LLC	TVD Reference:	RKB=3114+26.5 @ 3140.50ft
Project:	Eddy County, New Mexico NAD27 NM	MD Reference:	RKB=3114+26.5 @ 3140.50ft
Site:	Phantom Bank 31 Fed Com	North Reference:	Grid
Well:	Phantom Bank 31 Fed Com No. 202H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,100.00	3.21	190.096	5,098.12	-67.33	-11.99	12.33	0.00	0.00	0.00
5,200.00	3.21	190.096	5,197.97	-72.85	-12.97	13.35	0.00	0.00	0.00
5,300.00	3.21	190.096	5,297.81	-78.37	-13.96	14.36	0.00	0.00	0.00
5,400.00	3.21	190.096	5,397.65	-83.89	-14.94	15.37	0.00	0.00	0.00
,	3.21		5,397.65	-89.41			0.00	0.00	0.00
5,500.00		190.096	,		-15.92	16.38			
5,600.00	3.21	190.096	5,597.34	-94.93	-16.90	17.39	0.00	0.00	0.00
5,700.00	3.21	190.096	5,697.18	-100.45	-17.89	18.40	0.00	0.00	0.00
5,800.00	3.21	190.096	5,797.02	-105.98	-18.87	19.41	0.00	0.00	0.00
5,900.00	3.21	190.096	5,896.86	-111.50	-19.85	20.43	0.00	0.00	0.00
6,000.00	3.21	190.096	5,996.71	-117.02	-20.84	21.44	0.00	0.00	0.00
6,100.00	3.21	190.096	6,096.55	-122.54	-21.82	22.45	0.00	0.00	0.00
6,200.00	3.21	190.096	6,196.39	-128.06	-22.80	23.46	0.00	0.00	0.00
6,300.00	3.21	190.096	6,296.24	-133.58	-23.79	24.47	0.00	0.00	0.00
6,343.19	3.21	190.096	6,339.36	-135.96	-24.21	24.91	0.00	0.00	0.00
Begin 2°/10		100.000	0,000.00	-100.00	-27.21	24.01	0.00	0.00	0.00
6,400.00	2.08	190.096	6,396.11	-138.54	-24.67	25.38	2.00	-2.00	0.00
6,503.92	0.00	0.000	6,500.00	-140.40	-25.00	25.72	2.00	-2.00	0.00
Begin verti		0.000	0,000.00		20.00	20.12	2.00	2.00	0.00
6,600.00	0.00	0.000	6,596.08	-140.40	-25.00	25.72	0.00	0.00	0.00
6,700.00	0.00	0.000	6,696.08	-140.40	-25.00	25.72	0.00	0.00	0.00
6,800.00	0.00	0.000	6,796.08	-140.40	-25.00	25.72	0.00	0.00	0.00
6,900.00	0.00	0.000	6,896.08	-140.40	-25.00	25.72	0.00	0.00	0.00
7,000.00	0.00	0.000	6,996.08	-140.40	-25.00	25.72	0.00	0.00	0.00
7,100.00	0.00	0.000	7,096.08	-140.40	-25.00	25.72	0.00	0.00	0.00
7,200.00	0.00	0.000	7,196.08	-140.40	-25.00	25.72	0.00	0.00	0.00
7,300.00	0.00	0.000	7,296.08	-140.40	-25.00	25.72	0.00	0.00	0.00
7,400.00	0.00	0.000	7,396.08	-140.40	-25.00	25.72	0.00	0.00	0.00
7,500.00	0.00	0.000	7,496.08	-140.40	-25.00	25.72	0.00	0.00	0.00
7,600.00	0.00	0.000	7,596.08	-140.40	-25.00	25.72	0.00	0.00	0.00
7,700.00	0.00	0.000	7,696.08	-140.40	-25.00	25.72	0.00	0.00	0.00
7,800.00	0.00	0.000	7,796.08	-140.40	-25.00	25.72	0.00	0.00	0.00
7,900.00	0.00	0.000	7,896.08	-140.40	-25.00	25.72	0.00	0.00	0.00
7,916.06	0.00	0.000	7,912.14	-140.40	-25.00	25.72	0.00	0.00	0.00
Begin 10°/1		000 700	7.040.00	440.44	00.04	00.70	40.00	10.00	0.00
7,950.00	3.39	269.706	7,946.06	-140.41	-26.01	26.73	10.00	10.00	0.00
8,000.00	8.39	269.706	7,995.78	-140.43	-31.14	31.86	10.00	10.00	0.00
8,050.00	13.39	269.706	8,044.87	-140.48	-40.58	41.31	10.00	10.00	0.00
8,100.00	18.39	269.706	8,092.94	-140.55	-54.27	54.99	10.00	10.00	0.00
8,150.00	23.39	269.706	8,139.64	-140.64	-72.10	72.82	10.00	10.00	0.00
8,200.00	28.39	269.706	8,184.60	-140.75	-93.93	94.65	10.00	10.00	0.00
8,250.00	33.39	269.706	8,227.49	-140.89	-119.59	120.31	10.00	10.00	0.00
8,300.00	38.39	269.706	8,267.99	-141.04	-148.90	149.62	10.00	10.00	0.00
8,350.00	43.39	269.706	8,305.77	-141.20	-181.62	182.34	10.00	10.00	0.00
8,400.00	48.39	269.706	8,340.56	-141.39	-217.51	218.23	10.00	10.00	0.00
8,450.00	53.39	269.706	8,372.09	-141.59	-256.30	257.02	10.00	10.00	0.00
8,500.00	58.39	269.706	8,400.11	-141.80	-297.68	298.41	10.00	10.00	0.00
8,550.00	63.39	269.706	8,424.43	-142.02	-341.36	342.08	10.00	10.00	0.00
8,600.00	68.39	269.706	8,444.84	-142.02	-341.30	342.08 387.70	10.00	10.00	0.00
8,650.00	73.39	269.706	8,461.20	-142.20	-360.96 -434.21	434.94	10.00	10.00	0.00
8,700.00	78.39	269.706	8,473.38	-142.50	-434.21	434.94 483.41	10.00	10.00	0.00
8,750.00	83.39	269.706	8,481.29	-142.75	-482.09	532.77	10.00	10.00	0.00
8,800.00 8,826.61	88.39	269.706	8,484.87	-143.26	-581.90	582.62	10.00	10.00	0.00
d dzn hi	91.06	269.706	8,485.00	-143.40	-608.50	609.23	10.00	10.00	0.00

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Database:	DB_Feb2822	Local Co-ordinate Reference:	Well Phantom Bank 31 Fed Com No. 202H
Company:	Flat Creek Resources, LLC	TVD Reference:	RKB=3114+26.5 @ 3140.50ft
Project:	Eddy County, New Mexico NAD27 NM	MD Reference:	RKB=3114+26.5 @ 3140.50ft
Site:	Phantom Bank 31 Fed Com	North Reference:	Grid
Well:	Phantom Bank 31 Fed Com No. 202H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
Begin 91.06°									
8.900.00	91.06	269.706	8.483.65	-143.77	-681.88	682.61	0.00	0.00	0.0
9,000.00	91.06	269.706	8,481.81	-144.29	-781.86	782.59	0.00	0.00	0.0
9,100.00	91.06	269.706	8,479.97	-144.80	-881.84	882.57	0.00	0.00	0.0
9,200.00	91.06	269.706	8,478.12	-145.31	-981.82	982.56	0.00	0.00	0.0
9,300.00	91.06	269.706	8,476.28	-145.83	-1,081.81	1,082.54	0.00	0.00	0.0
9,400.00	91.06	269.706	8,474.44	-146.34	-1,181.79	1,182.52	0.00	0.00	0.0
9,500.00	91.06	269.706	8,472.60	-146.85	-1,281.77	1,282.51	0.00	0.00	0.0
9,600.00	91.00	269.706	8,470.76	-140.03	-1,381.75	1,382.49	0.00	0.00	0.0
9,000.00	91.00	209.700	0,470.70	-147.57	-1,301.75	1,302.49	0.00	0.00	0.00
9,700.00	91.06	269.706	8,468.92	-147.88	-1,481.73	1,482.47	0.00	0.00	0.0
9,800.00	91.06	269.706	8,467.07	-148.40	-1,581.71	1,582.46	0.00	0.00	0.0
9,900.00	91.06	269.706	8,465.23	-148.91	-1,681.70	1,682.44	0.00	0.00	0.0
10,000.00	91.06	269.706	8,463.39	-149.42	-1,781.68	1,782.42	0.00	0.00	0.0
10,100.00	91.06	269.706	8,461.55	-149.94	-1,881.66	1,882.40	0.00	0.00	0.0
10,200.00	91.06	269.706	8,459.71	-150.45	-1,981.64	1,982.39	0.00	0.00	0.0
10,300.00	91.06	269.706	8,457.87	-150.96	-2,081.62	2,082.37	0.00	0.00	0.0
10,400.00	91.06	269.706	8,456.02	-151.48	-2,181.60	2,182.35	0.00	0.00	0.0
10,500.00	91.06	269.706	8,454.18	-151.99	-2,281.59	2,282.34	0.00	0.00	0.0
10,600.00	91.06	269.706	8,452.34	-152.50	-2,381.57	2,382.32	0.00	0.00	0.0
10,700.00	91.06	269.706	8,450.50	-153.02	-2,481.55	2,482.30	0.00	0.00	0.0
		269.706	8,450.50 8,448.66	-153.02 -153.53	-2,481.55		0.00	0.00	0.0
10,800.00	91.06				,	2,582.29			
10,900.00	91.06	269.706	8,446.82	-154.04	-2,681.51	2,682.27	0.00	0.00	0.0
11,000.00	91.06	269.706	8,444.97	-154.56	-2,781.50	2,782.25	0.00	0.00	0.0
11,100.00	91.06	269.706	8,443.13	-155.07	-2,881.48	2,882.23	0.00	0.00	0.0
11,200.00	91.06	269.706	8,441.29	-155.58	-2,981.46	2,982.22	0.00	0.00	0.0
11,300.00	91.06	269.706	8,439.45	-156.10	-3,081.44	3,082.20	0.00	0.00	0.0
11,400.00	91.06	269.706	8,437.61	-156.61	-3,181.42	3,182.18	0.00	0.00	0.0
11,500.00	91.06	269.706	8,435.77	-157.13	-3,281.40	3,282.17	0.00	0.00	0.0
11,600.00	91.06	269.706	8,433.92	-157.64	-3,381.39	3,382.15	0.00	0.00	0.0
11,700.00	91.06	269.706	8,432.08	-158.15	-3,481.37	3,482.13	0.00	0.00	0.0
11,800.00	91.06	269.706	8,430.24	-158.67	-3,581.35	3,582.12	0.00	0.00	0.0
11,900.00	91.06	269.706	8,428.40	-159.18	-3,681.33	3,682.10	0.00	0.00	0.0
12,000.00	91.06	269.706	8,426.56	-159.69	-3,781.31	3,782.08	0.00	0.00	0.0
12,100.00	91.06	269.706	8,424.72	-160.21	-3,881.29	3,882.07	0.00	0.00	0.0
40.000.00	04.00	000 700	0 400 07	400 70	2 004 00	2 002 05	0.00	0.00	0.0
12,200.00	91.06	269.706	8,422.87	-160.72	-3,981.28	3,982.05	0.00	0.00	0.0
12,300.00	91.06	269.706	8,421.03	-161.23	-4,081.26	4,082.03	0.00	0.00	0.0
12,400.00	91.06	269.706	8,419.19	-161.75	-4,181.24	4,182.01	0.00	0.00	0.0
12,500.00	91.06	269.706	8,417.35	-162.26	-4,281.22	4,282.00	0.00	0.00	0.0
12,600.00	91.06	269.706	8,415.51	-162.77	-4,381.20	4,381.98	0.00	0.00	0.0
12,700.00	91.06	269.706	8.413.67	-163.29	-4,481.18	4,481.96	0.00	0.00	0.0
12,800.00	91.06	269.706	8,411.82	-163.80	-4,581.17	4,581.95	0.00	0.00	0.0
12,900.00	91.00	269.706	8,409.98	-164.31	-4,681.15	4,681.93	0.00	0.00	0.0
12,900.00	91.06 91.06	269.706	8,409.98 8,408.14	-164.83	-4,001.15 -4,781.13	4,001.93	0.00	0.00	0.0
					,				
13,100.00	91.06	269.706	8,406.30	-165.34	-4,881.11	4,881.90	0.00	0.00	0.0
13,200.00	91.06	269.706	8,404.46	-165.86	-4,981.09	4,981.88	0.00	0.00	0.0
13,300.00	91.06	269.706	8,402.62	-166.37	-5,081.07	5,081.86	0.00	0.00	0.0
13,400.00	91.06	269.706	8,400.77	-166.88	-5,181.06	5,181.84	0.00	0.00	0.0
13,500.00	91.06	269.706	8,398.93	-167.40	-5,281.04	5,281.83	0.00	0.00	0.0
13,600.00	91.06	269.706	8,397.09	-167.91	-5,381.02	5,381.81	0.00	0.00	0.0
13,700.00	91.06	269.706	8,395.25	-168.42	-5,481.00	5,481.79	0.00	0.00	0.0
13,752.08	91.06	269.706	8,394.29	-168.69	-5,533.07	5,533.86	0.00	0.00	0.0
LTP 13752.08	3 MD 8394.29 T\	/D							
13,800.00	91.06	269.706	8,393.41	-168.94	-5,580.98	5,581.78	0.00	0.00	0.0
13,822.15	91.06	269.706	8,393.00	-169.05	-5,603.13	5,603.92	0.00	0.00	0.0

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.



Depth

(ft)

Rate

(°/100ft)

Site: Vell: Vellbore:	Phantom Bank 31 Fed Com Phantom Bank 31 Fed Com No. 202H Original Hole	North Reference: Survey Calculation Method:	Grid Minimum Curva	Minimum Curvature		
Design:	rev0					

+E/-W

(ft)

Section

(ft)

Rate

(°/100ft)

Rate

(°/100ft)

+N/-S

(ft)

Depth

(ft)

PBHI /TD 13822 15 MD 8393 00 TVD	

Inclination

(°)

Azimuth

(°)

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Phantom 202 PBHL 380 - plan misses targe - Point		0.000 3ft at 13822.7	8,393.00 15ft MD (839	-169.02 3.00 TVD, -16	-5,603.13 89.05 N, -5603	364,489.877 8.13 E)	657,409.506	32.001080000	-103.825549000
Phantom 202 LTP 380 F - plan hits target ce - Point		0.000	8,394.29	-168.69	-5,533.07	364,490.206	657,479.565	32.001080000	-103.825323000
Phantom 202 FTP 380 I - plan misses targe - Point		0.000 30ft at 8625.0	8,485.00 01ft MD (845	-142.36 3.54 TVD, -14	-399.52 I2.38 N, -410.4	364,516.539 42 E)	662,613.100	32.001085000	-103.808763000

Plan Annotations

Measured	Vertical	Local Co	ordinates		
Depth (ft)	Depth (ft)	+N/-S (ft)	+E/-W (ft)	Comment	
3,800.	3,800.00	0.00	0.00	KOP Begin 2°/100' build	
3,960.	72 3,960.64	-4.44	-0.79	Begin 3.21° tangent	
6,343.	6,339.36	-135.96	-24.21	Begin 2°/100' drop	
6,503.	6,500.00	-140.40	-25.00	Begin vertical hold	
7,916.	7,912.14	-140.40	-25.00	Begin 10°/100' build	
8,826.	8,485.00	-143.40	-608.50	Begin 91.06° lateral	
13,752.	8,394.29	-168.69	-5,533.07	LTP 13752.08 MD 8394.29 TVD	
13,822.	15 8,393.00	-169.05	-5,603.13	PBHL/TD 13822.15 MD 8393.00 TVD	

2-X



Planning Report - Geographic



Company: F Project: E Site: F Well: F Wellbore: C Design: r Project E Map System: US Geo Datum: NAI	DB_Feb2822 Flat Creek Re: Eddy County, Phantom Banl Phantom Banl Driginal Hole rev0 ddy County, N State Plane D 1927 (NAD w Mexico Eas	New Mexico k 31 Fed Con k 31 Fed Con New Mexico N 1927 (Exact s CON CONUS	NAD27 NM n n No. 202H NAD27 NM solution)	TVD Referen MD Referen North Refer	ce:	Well Phantom Ba RKB=3114+26.5 RKB=3114+26.5 Grid Minimum Curvatu	@ 3140.50ft
Map System: US Geo Datum: NAI	State Plane D 1927 (NAD	1927 (Exact s CON CONUS	solution)				
Geo Datum: NAI	D 1927 (NAD	CON CONUS					
		51 3001	5)	System Datu	m:	Mean Sea Level	
Site Pl	hantom Bank	31 Fed Com					
Site Position: From: Position Uncertainty:	Lat/Long	0.00 ft	Northing: Easting: Slot Radius:	663,006	2.329 usft Latitud 5.861 usft Longitu -3/16 "		32.00420200 -103.80747500
Well Ph	nantom Bank	31 Fed Com	No. 202H, Surf loc:	520 FSL 300 FWL S	Section 32-T26S-R31	E	
	N/-S E/-W	0.00 ft 0.00 ft	Northing: Easting:		364,658.896 usft 663,012.623 usft	Latitude: Longitude:	32.00147100 -103.80747200
Position Uncertainty Grid Convergence:		0.00 ft	Wellhead Elev	vation:	ft	Ground Level:	3,114.00 ft
Wellbore C	Driginal Hole						
Magnetics	Model Nan	ne	Sample Date	Declinatio (°)	on	Dip Angle (°)	Field Strength (nT)
	IGR	F2020	4/27/2022		6.54	59.63	47,249.71610809
Design re	ev0						
Audit Notes: Version:			Phase:	PLAN	Tie On Dep	th: (0.00
Vertical Section:		Depth	From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)		ction °)
			0.00	0.00	0.00	269	.706
Plan Survey Tool Progra	m	Date					
Depth From (ft)	Depth To (ft) S	Survey (Welli	oore)	Tool Name	Rema	rks	
1 0.00	13,822.15 r	ev0 (Original	Hole)				



Database:	DB_Feb2822	Local Co-ordinate Reference:	Well Phantom Bank 31 Fed Com No. 202H
Company:	Flat Creek Resources, LLC	TVD Reference:	RKB=3114+26.5 @ 3140.50ft
Project:	Eddy County, New Mexico NAD27 NM	MD Reference:	RKB=3114+26.5 @ 3140.50ft
Site:	Phantom Bank 31 Fed Com	North Reference:	Grid
Well:	Phantom Bank 31 Fed Com No. 202H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		

Plan Sections

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,800.00	0.00	0.000	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,960.72	3.21	190.096	3,960.64	-4.44	-0.79	2.00	2.00	0.00	190.10	
6,343.19	3.21	190.096	6,339.36	-135.96	-24.21	0.00	0.00	0.00	0.00	
6,503.92	0.00	0.000	6,500.00	-140.40	-25.00	2.00	-2.00	0.00	180.00	
7,916.06	0.00	0.000	7,912.14	-140.40	-25.00	0.00	0.00	0.00	0.00	
8,826.61	91.06	269.706	8,485.00	-143.40	-608.50	10.00	10.00	-9.92	269.71	
13,752.08	91.06	269.706	8,394.29	-168.69	-5,533.07	0.00	0.00	0.00	0.00	Phantom 202 LTP 3
13,822.15	91.06	269.706	8,393.00	-169.05	-5,603.13	0.00	0.00	0.00	0.00	Phantom 202 PBHI



Planning Report - Geographic

Database:	DB Feb2822	Local Co-ordinate Reference:	Well Phantom Bank 31 Fed Com No. 202H
Company:	Flat Creek Resources, LLC	TVD Reference:	RKB=3114+26.5 @ 3140.50ft
Project:	Eddy County, New Mexico NAD27 NM	MD Reference:	RKB=3114+26.5 @ 3140.50ft
Site:	Phantom Bank 31 Fed Com	North Reference:	Grid
Well:	Phantom Bank 31 Fed Com No. 202H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole	-	
Design:	rev0		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitudo
						. ,	. ,		Longitude
0.00	0.00	0.000	0.00	0.00	0.00	364,658.896	663,012.623	32.001471000	-103.807472000
100.00	0.00	0.000	100.00	0.00	0.00	364,658.896	663,012.623	32.001471000	-103.807472000
200.00	0.00 0.00	0.000	200.00 300.00	0.00	0.00	364,658.896	663,012.623	32.001471000 32.001471000	-103.807472000 -103.807472000
300.00 400.00	0.00	0.000 0.000	400.00	0.00 0.00	0.00 0.00	364,658.896 364,658.896	663,012.623 663,012.623	32.001471000	-103.807472000
500.00	0.00	0.000	500.00	0.00	0.00	364,658.896	663,012.623	32.001471000	-103.807472000
600.00	0.00	0.000	600.00	0.00	0.00	364,658.896	663,012.623	32.001471000	-103.807472000
700.00	0.00	0.000	700.00	0.00	0.00	364,658.896	663,012.623	32.001471000	-103.807472000
800.00	0.00	0.000	800.00	0.00	0.00	364,658.896	663,012.623	32.001471000	-103.807472000
900.00	0.00	0.000	900.00	0.00	0.00	364,658.896	663,012.623	32.001471000	-103.807472000
1,000.00	0.00	0.000	1,000.00	0.00	0.00	364,658.896	663,012.623	32.001471000	-103.807472000
1,100.00	0.00	0.000	1,100.00	0.00	0.00	364,658.896	663,012.623	32.001471000	-103.807472000
1,200.00	0.00	0.000	1,200.00	0.00	0.00	364,658.896	663,012.623	32.001471000	-103.807472000
1,300.00	0.00	0.000	1,300.00	0.00	0.00	364,658.896	663,012.623	32.001471000	-103.807472000
1,400.00	0.00	0.000	1,400.00	0.00	0.00	364,658.896	663,012.623	32.001471000	-103.807472000
1,500.00	0.00	0.000	1,500.00	0.00	0.00	364,658.896	663,012.623	32.001471000	-103.807472000
1,600.00	0.00	0.000	1,600.00	0.00	0.00	364,658.896	663,012.623	32.001471000	-103.807472000
1,700.00	0.00	0.000	1,700.00	0.00	0.00	364,658.896	663,012.623	32.001471000	-103.807472000
1,800.00	0.00	0.000	1,800.00	0.00	0.00	364,658.896	663,012.623	32.001471000	-103.807472000
1,900.00	0.00	0.000	1,900.00	0.00	0.00	364,658.896	663,012.623	32.001471000	-103.807472000
2,000.00	0.00	0.000	2,000.00	0.00	0.00	364,658.896	663,012.623	32.001471000	-103.807472000
2,100.00	0.00	0.000	2,100.00	0.00	0.00	364,658.896	663,012.623	32.001471000	-103.807472000
2,200.00	0.00	0.000	2,200.00	0.00	0.00	364,658.896	663,012.623	32.001471000	-103.807472000
2,300.00	0.00	0.000	2,300.00	0.00	0.00	364,658.896	663,012.623	32.001471000	-103.807472000
2,400.00	0.00	0.000	2,400.00	0.00	0.00	364,658.896	663,012.623	32.001471000	-103.807472000
2,500.00	0.00	0.000	2,500.00	0.00	0.00	364,658.896	663,012.623	32.001471000	-103.807472000
2,600.00	0.00 0.00	0.000	2,600.00 2,700.00	0.00 0.00	0.00 0.00	364,658.896	663,012.623	32.001471000	-103.807472000 -103.807472000
2,700.00 2,800.00	0.00	0.000 0.000	2,700.00	0.00	0.00	364,658.896 364,658.896	663,012.623 663,012.623	32.001471000 32.001471000	-103.807472000
2,800.00	0.00	0.000	2,800.00	0.00	0.00	364,658.896	663,012.623	32.001471000	-103.807472000
3,000.00	0.00	0.000	3,000.00	0.00	0.00	364,658.896	663,012.623	32.001471000	-103.807472000
3,100.00	0.00	0.000	3,100.00	0.00	0.00	364,658.896	663,012.623	32.001471000	-103.807472000
3,200.00	0.00	0.000	3,200.00	0.00	0.00	364,658.896	663,012.623	32.001471000	-103.807472000
3,300.00	0.00	0.000	3,300.00	0.00	0.00	364,658.896	663,012.623	32.001471000	-103.807472000
3,400.00	0.00	0.000	3,400.00	0.00	0.00	364,658.896	663,012.623	32.001471000	-103.807472000
3,500.00	0.00	0.000	3,500.00	0.00	0.00	364,658.896	663,012.623	32.001471000	-103.807472000
3,600.00	0.00	0.000	3,600.00	0.00	0.00	364,658.896	663,012.623	32.001471000	-103.807472000
3,700.00	0.00	0.000	3,700.00	0.00	0.00	364,658.896	663,012.623	32.001471000	-103.807472000
3,800.00	0.00	0.000	3,800.00	0.00	0.00	364,658.896	663,012.623	32.001471000	-103.807472000
KOP Be	gin 2°/100' bui	ld							
3,900.00	2.00	190.096	3,899.98	-1.72	-0.31	364,657.178	663,012.317	32.001466281	-103.807473014
3,960.72	3.21	190.096	3,960.64	-4.44	-0.79	364,654.459	663,011.833	32.001458812	-103.807474618
Begin 3.	21° tangent								
4,000.00	3.21	190.096	3,999.85	-6.61	-1.18	364,652.290	663,011.447	32.001452857	-103.807475898
4,100.00	3.21	190.096	4,099.70	-12.13	-2.16	364,646.770	663,010.464	32.001437694	-103.807479155
4,200.00	3.21	190.096	4,199.54	-17.65	-3.14	364,641.249	663,009.481	32.001422531	-103.807482413
4,300.00		190.096	4,299.38	-23.17	-4.13	364,635.729	663,008.498	32.001407369	-103.807485670
4,400.00	3.21	190.096	4,399.22	-28.69	-5.11	364,630.208	663,007.515	32.001392206	-103.807488928
4,500.00		190.096	4,499.07	-34.21	-6.09	364,624.688	663,006.532	32.001377043	-103.807492186
4,600.00		190.096	4,598.91	-39.73	-7.07	364,619.167	663,005.549	32.001361881	-103.807495443
4,700.00		190.096	4,698.75	-45.25	-8.06	364,613.647	663,004.566	32.001346718	-103.807498701
4,800.00		190.096	4,798.60	-50.77	-9.04	364,608.126	663,003.583	32.001331556	-103.807501958
4,900.00		190.096	4,898.44	-56.29	-10.02	364,602.606	663,002.600	32.001316393	-103.807505216
5,000.00	3.21	190.096	4,998.28	-61.81	-11.01	364,597.085	663,001.617	32.001301230	-103.807508473



Planning Report - Geographic

Database:	DB_Feb2822	Local Co-ordinate Reference:	Well Phantom Bank 31 Fed Com No. 202H
Company:	Flat Creek Resources, LLC	TVD Reference:	RKB=3114+26.5 @ 3140.50ft
Project:	Eddy County, New Mexico NAD27 NM	MD Reference:	RKB=3114+26.5 @ 3140.50ft
Site:	Phantom Bank 31 Fed Com	North Reference:	Grid
Well:	Phantom Bank 31 Fed Com No. 202H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		

Planned Survey

(ft) (ft) <th< th=""><th>Measured Depth</th><th>Inclination</th><th>Azimuth</th><th>Vertical Depth</th><th>+N/-S</th><th>+E/-W</th><th>Map Northing</th><th>Map Easting</th><th></th><th></th></th<>	Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Map Northing	Map Easting		
5.200.00 3.21 190.096 5.197.97 -72.85 -12.97 364.86.044 662.996.668 32.01/27095 -103.807514285 5.300.00 3.21 190.096 5.307.65 -83.89 -14.44 364.575.00 662.997.668 32.01/22551 -103.807512450 5.500.00 3.21 190.096 5.697.74 -84.93 -16.90 364.563.482 662.997.702 32.001120255 -103.807534154 5.700.00 3.21 190.096 5.697.74 -94.93 -17.89 364.553.482 662.997.70 32.201119602 -103.807534154 5.800.00 3.21 190.096 5.696.71 -117.02 -20.44 364.553.480 662.992.770 32.201146476 -103.807541048 6.100.00 3.21 190.096 5.696.71 -117.02 -20.44 364.553.490 662.990.747 -20.0144644 -103.807541048 6.200.00 3.21 190.096 5.396.62 -22.80 364.553.490 662.990.742 32.001184747 -103.807554416 6.300.00 0.000	(ft)			(ft)					Latitude	Longitude
5.300.00 3.21 100.096 5.297.81 -78.37 -13.86 364.80.524 662.997.685 32.001226572 -103.807551303 5.400.00 3.21 100.096 5.497.48 -88.41 -15.82 364.563.932 662.997.685 32.001226417 -103.8075503175 5.600.00 3.21 100.096 5.697.74 -98.93 -16.90 384.558.442 662.997.753 32.001120251 -103.807531276 5.800.00 3.21 100.096 5.697.70 -105.896 -16.87 384.552.221 662.998.733 32.00118029 -103.807531726 6.000.03 3.21 100.096 5.696.76 -11.50 -19.85 384.541800 662.991.787 32.001180147 -103.807541766 6.000.03 2.21 100.096 6.695.56 -22.50 384.551.800 662.991.787 32.001180176 -103.807559521 6.200.00 3.21 100.096 6.390.36 -135.56 -22.467 384.522.316 662.987.623 32.001180176 -103.80755372 6.200.00 3.21	5,100.00	3.21	190.096	5,098.12	-67.33	-11.99	364,591.565	663,000.634	32.001286068	-103.807511731
5.400.00 3.21 190.096 5.337.65 33.20174580 -103.807524761 5.600.00 3.21 190.096 5.697.74 -44.93 -16.80 384.568.362 662.996.710 33.20112255 -103.807524761 5.600.00 3.21 190.096 5.697.74 -44.93 -16.80 384.558.42 662.997.703 33.201112255 -103.80753127 5.600.00 3.21 190.096 5.697.74 -104.81 384.557.410 662.992.770 33.2001147622 -103.80754743 6.000.00 3.21 190.096 5.996.71 -117.02 -20.44 384.557.401 662.990.770 33.2001144764 -103.80754743 6.100.00 3.21 190.096 6.196.53 -22.80 384.553.03.89 662.988.21 32.001141727 -103.80755427 6.330.0 3.21 190.096 6.398.51 -128.65 -23.25 984.525.31 32.0011097567 -103.80755427 6.400.00 0.000 6.590.00 -140.40 -25.00 384.518.496 662.987.53 32.0011085379	5,200.00	3.21	190.096	5,197.97	-72.85	-12.97	364,586.044	662,999.651	32.001270905	-103.807514988
5500.00 3.21 190.086 5.497.44 498.41 -15.82 384.563.36C 682.985.712 32.00121225417 -103.307524018 5.700.00 3.21 190.086 5.697.18 -100.45 -17.83 384.553.841.2 682.985.716 -20.01170252018 -103.307531254 5.800.00 3.21 190.096 5.797.02 -105.89 384.552.817 662.991.776 32.01114767 -103.30753174 6.000.00 3.21 190.096 5.980.46 -111.50 -19.85 384.541.80 662.291.770 32.01144767 -103.307541404 6.100.00 3.21 190.096 6.986.55 -122.54 -21.82 384.553.390 662.980.813 32.001143441 -103.307564278 6.300.00 3.21 190.096 6.393.61 -13.568 -23.79 384.552.319 662.987.813 32.001097667 -103.807552487 6.400.00 2.00 0.60.00 0.00 6.590.00 -44.40 -25.00 384.518.496 662.987.623 32.001085379 -103.807554847 6.900.00	5,300.00	3.21	190.096	5,297.81	-78.37	-13.96	364,580.524	662,998.668	32.001255742	-103.807518246
5,600.00 3.21 190.096 5,697.34 -44.93 -16.80 384,563.262 662.994.718 32.001190255 -103.80753027 5,000.00 3.21 190.096 5,797.02 -105.98 -18.87 394,552.221 662.997.73 32.001179829 -103.80753427 6,000.00 3.21 190.096 5,980.61 -11.702 -20.84 384,547.401 662.997.73 32.001147829 -103.807541406 6,100.00 3.21 190.096 5,986.71 -117.02 -20.84 384,553.310 662.998.841 32.001144661 -103.807544266 6,200.00 3.21 190.096 6,196.39 -22.80 394,553.310 662.988.83 32.001144116 -103.80755228 Begin 2*100*700 C C C 24.27 384,553.118 662.987.23 32.001085379 -103.80755427 6,000.00 0.00 6,500.00 1.40.40 -26.00 384,518.446 662.987.623 32.001085379 -103.807554847 6,000.00 0.000 6,508.08 1.44.440 -25.00<	5,400.00	3.21	190.096	5,397.65	-83.89	-14.94	364,575.003	662,997.685	32.001240580	-103.807521503
5,700.00 3.21 190.066 5,697.18 -100.45 -17.89 384,558.242 662.993.763 32.001196092 -103.80753453 5,800.00 3.21 190.096 5,702.10 -103.80 384,547.401 662.993.763 32.001178420 -103.80753453 6,000.00 3.21 190.096 5,996.61 -117.02 -20.84 384,541.80 662.990.804 32.001146470 -103.807547143 6,000.00 3.21 190.096 6,196.55 -122.54 -21.82 384,530.839 662.980.821 32.001144141 -103.80754741430 6,300.00 3.21 190.096 6,396.42 -133.56 -23.17 384,525.310 662.987.953 32.001109767 -103.807554847 6,400.00 2.00 0.000 6,596.08 -140.40 -25.00 384,518.496 662.987.623 32.001108577 -103.807554847 6,600.00 0.000 6,596.08 -140.40 -25.00 384,518.496 662.987.623 32.001108577 -103.807554847 6,600.00 0.000 6,596.08	5,500.00	3.21	190.096	5,497.49	-89.41	-15.92	364,569.483	662,996.702	32.001225417	-103.807524761
5 600.00 3.21 100.096 5,797.02 -105.89 -18.87 394,552.021 662.997.753 32.2011479029 -103.807534534 6,000.00 3.21 190.096 5,596.71 -177.02 -20.84 394,541.80 662.999.2917.87 32.001144904 -103.807544366 6,200.00 3.21 190.096 6,985.5 -122.66 -22.20 384,523.819 662.989.821 32.00114411 -103.807554521 6,301.00 3.21 190.096 6,393.3 -135.56 -24.47 384,523.919 662.988.818 32.001104116 -103.807554287 6,400.00 2.08 190.096 6,396.11 -138.54 -24.67 384,518.496 662.987.953 32.001096475 -103.807554847 6,600.00 0.00 6,596.06 -140.40 -25.00 384,518.496 662.987.623 32.00108579 -103.807554847 6,000.00 0.00 6,596.06 -140.40 -25.00 384,518.496 662.987.623 32.00108579 -103.807554847 7,000.00 0.00 0.000	5,600.00	3.21	190.096	5,597.34	-94.93	-16.90	364,563.962	662,995.719	32.001210255	-103.807528018
5 500.00 3.21 190.096 5.968.88 -111.50 -19.85 384.547.401 662.297.70 32.001164/77 -103.807534781 6.000.00 3.21 190.096 6.096.55 -122.54 -21.82 384.538.380 662.990.804 32.001134441 -103.807543768 6.300.00 3.21 190.096 6.196.39 -122.64 -21.82 384.538.380 662.980.821 32.001134441 -103.807550821 6.300.00 3.21 190.096 6.296.24 -133.58 -22.70 384.518.396 662.987.823 32.00109757 -103.807550821 6.400.00 2.08 190.096 6.396.11 -138.64 -24.67 384.522.346 662.987.623 32.001095379 -103.807554847 6.600.00 0.000 6.596.08 -140.40 -25.00 384.518.496 662.987.623 32.001085379 -103.807554847 6.800.00 0.000 6.596.08 -140.40 -25.00 384.518.496 662.987.623 32.001085379 -103.807554847 7.000.00 0.000 6.596.08	5,700.00	3.21	190.096	5,697.18	-100.45	-17.89	364,558.442	662,994.736	32.001195092	-103.807531276
6.000.00 3.21 190.096 5.967.71 -117.02 -20.84 394.538.00 662.998.961.787 32.001149604 -103.807541306 6.200.00 3.21 190.096 6.196.39 -128.06 -22.20 384.530.839 662.998.9821 32.00114167 -103.807547564 6.301.00 3.21 190.096 6.398.3 -133.85 -23.79 364.525.319 662.988.838 32.001104716 -103.80755228 Begin 2*/100* drop - - - - - 364.520.352 662.987.953 32.001090475 -103.807553752 6.503.92 0.00 0.000 6.596.08 -140.40 -25.00 364.518.496 662.987.623 32.001095379 -103.807554847 6.600.00 0.00 0.000 6.596.08 -140.40 -25.00 364.518.496 662.987.623 32.001085379 -103.807554847 6.900.00 0.000 6.966.08 -140.40 -25.00 364.518.496 662.987.623 32.001085379 -103.807554847 7.000.00 0.000 0.000 <td>5,800.00</td> <td></td> <td>190.096</td> <td>5,797.02</td> <td>-105.98</td> <td>-18.87</td> <td>364,552.921</td> <td>662,993.753</td> <td>32.001179929</td> <td>-103.807534534</td>	5,800.00		190.096	5,797.02	-105.98	-18.87	364,552.921	662,993.753	32.001179929	-103.807534534
6,100_00 3.21 190.096 6,096.55 -122.54 -21.82 364.538.360 662.999.804 32.001134441 -103.80754744306 6,200_00 3.21 190.096 6,296.34 -133.59 -23.79 364.525.319 662.998.843 32.001197567 -103.8075475484 6,400_00 2.08 190.096 6,396.11 -138.54 -24.21 364.522.394 662.987.523 32.001095757 -103.807554847 6,600_00 0.000 6,500_00 -140.40 -25.00 364.518.496 662.987.623 32.001085379 -103.807554847 6,600_00 0.000 6,596.08 -140.40 -25.00 364.518.496 662.987.623 32.001085379 -103.807554847 6,000_00 0.000 6,596.08 -140.40 -25.00 364.518.496 662.987.623 32.001085379 -103.807554847 7,000_00 0.000 6,596.08 -140.40 -25.00 364.518.496 662.987.623 32.001085379 -103.807554847 7,000_00 0.000 7,596.08 -140.40 -25.00<	5,900.00	3.21	190.096	5,896.86	-111.50	-19.85	364,547.401	662,992.770	32.001164767	-103.807537791
6,200.00 3.21 190.006 6,196.39 -128.06 -22.80 384,530.839 662,988.821 32.001102179 -103.80755424 6,303.92 190.006 6,339.36 -135.96 -24.21 384,522.934 662,988.83 32.001104116 -103.807550228 Begin 27100' drop	6,000.00	3.21	190.096	5,996.71	-117.02	-20.84	364,541.880			-103.807541049
6,300.00 3.21 190.096 6,282.4 -133.58 -23.79 364,525.319 662,988.838 32.001197567 -103.807562228 Bejin 2*1/00* drop - - -24.21 364,522.934 662,987.823 32.00109767 -103.807562228 Bejin 2*1/00* drop - - - -24.67 364,520.352 662,987.823 32.00109475 -103.807554847 6,000.00 0.000 6,596.08 -140.40 -25.00 364,518.496 662,987.623 32.001085379 -103.807554847 6,000.00 0.000 6,596.08 -140.40 -25.00 364,518.496 662,987.623 32.001085379 -103.807554847 6,000.00 0.000 6,596.08 -140.40 -25.00 364,518.496 662,987.623 32.001085379 -103.807554847 7,000.00 0.000 6,596.08 -140.40 -25.00 364,518.496 662,987.623 32.001085379 -103.807554447 7,000.00 0.000 7,966.08 -140.40 -25.00 364,518.496 662,987.623 32.001085379	6,100.00	3.21	190.096	6,096.55	-122.54	-21.82	364,536.360	662,990.804	32.001134441	-103.807544306
6,433.19 3.21 190.096 6,333.6 -135.96 -24.21 364,522.934 662,986,413 32.001097667 -103.807552228 Begin 2*100*drop -	6,200.00		190.096	6,196.39	-128.06		364,530.839	662,989.821		-103.807547564
Begin 2'100' drop 6,000.00 2.08 190.096 6,396.11 -138.54 -24.67 364,520.352 662.987.623 32.001096375 -103.807554847 Begin vertical hold E <the< th=""> E E</the<>									32.001104116	-103.807550821
6,400.00 2.08 190.096 6,301.10 -138.54 -24.67 364,523.32 622,987.923 32.001090475 -103.807554847 Begin vertical hold -	6,343.19	3.21	190.096	6,339.36	-135.96	-24.21	364,522.934	662,988.413	32.001097567	-103.807552228
6,503.92 0.00 6,500.00 -140.40 -25.00 364,518.496 662,987,623 32.001085379 -103.807554847 Begin vertical hold	Begin 2°	/100' drop								
Begin vertical hold 6,600.00 0.000 6,596.08 -140.40 -25.00 364,518.496 662,987,623 32.001085379 -103.807564847 6,700.00 0.000 0.000 6,796.08 -140.40 -25.00 364,518.496 662,987,623 32.001085379 -103.807564847 6,800.00 0.000 6,796.08 -140.40 -25.00 364,518.496 662,987,623 32.001085379 -103.807564847 7,000.00 0.000 6,996.08 -140.40 -25.00 364,518.496 662,987,623 32.001085379 -103.807564847 7,200.00 0.000 7,996.08 -140.40 -25.00 364,518.496 662,987,623 32.001085379 -103.807564847 7,300.00 0.000 7,986.08 -140.40 -25.00 364,518.496 662,987,623 32.001085379 -103.807564847 7,300.00 0.000 7,386.08 -140.40 -25.00 364,518.496 662,987,623 32.001085379 -103.807564847 7,000.00 0.000 7,986.08 -140.40 -25.00 <t< td=""><td>6,400.00</td><td>2.08</td><td></td><td>6,396.11</td><td>-138.54</td><td>-24.67</td><td>364,520.352</td><td>662,987.953</td><td>32.001090475</td><td>-103.807553752</td></t<>	6,400.00	2.08		6,396.11	-138.54	-24.67	364,520.352	662,987.953	32.001090475	-103.807553752
6,600.00 0.000 6,596.08 -140.40 -25.00 364,518.496 662,987,623 32.001085379 -103.807554847 6,800.00 0.00 0.000 6,996.08 -140.40 -25.00 364,518.496 662,987,623 32.001085379 -103.807554847 6,800.00 0.000 6,996.08 -140.40 -25.00 384,518.496 662,987,623 32.001085379 -103.807554847 7,000.00 0.000 6,996.08 -140.40 -25.00 384,518.496 662,987,623 32.001085379 -103.807554847 7,000.00 0.000 7,096.08 -140.40 -25.00 384,518.496 662,987,623 32.001085379 -103.807554847 7,000.0 0.000 7,996.08 -140.40 -25.00 384,518.496 662,987,623 32.001085379 -103.807554847 7,600.00 0.000 7,996.08 -140.40 -25.00 384,518.496 662,987,623 32.001085379 -103.807554847 7,000.0 0.000 7,996.08 -140.40 -25.00 364,518.496 662,987,6	6,503.92	0.00	0.000	6,500.00	-140.40	-25.00	364,518.496	662,987.623	32.001085379	-103.807554847
6,700.00 0.000 6,796.08 -140.40 -25.00 364,518.496 662,987,623 32.001085379 -103.807554847 6,800.00 0.000 6,896.08 -140.40 -25.00 364,518.496 662,987,623 32.001085379 -103.807554847 7,000.00 0.000 6,996.08 -140.40 -25.00 364,518.496 662,987,623 32.001085379 -103.807554847 7,100.00 0.000 7,096.08 -140.40 -25.00 364,518.496 662,987,623 32.001085379 -103.807554847 7,200.00 0.000 7,096.08 -140.40 -25.00 364,518.496 662,987,623 32.001085379 -103.807554847 7,300.00 0.000 7,296.08 -140.40 -25.00 364,518.496 662,987,623 32.001085379 -103.807554847 7,500.00 0.00 7,996.08 -140.40 -25.00 364,518.496 662,987,623 32.001085379 -103.807554847 7,600.00 0.000 7,996.08 -140.40 -25.00 364,518.496 662,987,623 32.001085379 -103.807554847 7,900.00 0.000 7,996.08 <td>Begin ve</td> <td>rtical hold</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Begin ve	rtical hold								
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8,250.0033.39269.7068,227.49-140.89-119.59364,518.011662,893.03132.001085307-103.8078599878,300.0038.39269.7068,267.99-141.04-148.90364,517.860662,863.72632.001085285-103.8079545208,350.0043.39269.7068,305.77-141.20-181.62364,517.692662,831.00432.001085260-103.8080600778,400.0048.39269.7068,340.56-141.39-217.51364,517.508662,795.11332.001085233-103.8081758558,450.0053.39269.7068,372.09-141.59-256.30364,517.308662,756.32632.001085203-103.8083009748,500.0058.39269.7068,400.11-141.80-297.68364,516.872662,671.26832.001085137-103.8085753588,600.0068.39269.7068,424.43-142.02-341.36364,516.637662,625.64432.001085102-103.8087225368,650.0073.39269.7068,461.20-142.50-434.21364,516.395662,578.41432.001085102-103.8087425368,700.0078.39269.7068,473.38-142.75-482.69364,516.146662,529.93732.001085027-103.809031270								,		
8,300.0038.39269.7068,267.99-141.04-148.90364,517.860662,863.72632.001085285-103.8079545208,350.0043.39269.7068,305.77-141.20-181.62364,517.692662,831.00432.001085260-103.8080600778,400.0048.39269.7068,340.56-141.39-217.51364,517.508662,795.11332.001085233-103.8081758558,450.0053.39269.7068,372.09-141.59-256.30364,517.308662,756.32632.001085203-103.8083009748,500.0058.39269.7068,400.11-141.80-297.68364,517.096662,714.94032.001085171-103.8084344808,550.0063.39269.7068,424.43-142.02-341.36364,516.872662,671.26832.001085137-103.8085753588,600.0068.39269.7068,444.84-142.26-386.98364,516.637662,625.64432.001085102-103.8087225368,650.0073.39269.7068,461.20-142.50-434.21364,516.395662,578.41432.001085065-103.808742938,700.0078.39269.7068,473.38-142.75-482.69364,516.146662,529.93732.001085027-103.809031270				,				,		
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8,500.0058.39269.7068,400.11-141.80-297.68364,517.096662,714.94032.001085171-103.8084344808,550.0063.39269.7068,424.43-142.02-341.36364,516.872662,671.26832.001085137-103.8085753588,600.0068.39269.7068,444.84-142.26-386.98364,516.637662,625.64432.001085102-103.8087225368,650.0073.39269.7068,461.20-142.50-434.21364,516.395662,578.41432.001085065-103.808748938,700.0078.39269.7068,473.38-142.75-482.69364,516.146662,529.93732.001085027-103.809031270										
8,550.0063.39269.7068,424.43-142.02-341.36364,516.872662,671.26832.001085137-103.8085753588,600.0068.39269.7068,444.84-142.26-386.98364,516.637662,625.64432.001085102-103.8087225368,650.0073.39269.7068,461.20-142.50-434.21364,516.395662,578.41432.001085065-103.8088748938,700.0078.39269.7068,473.38-142.75-482.69364,516.146662,529.93732.001085027-103.809031270										
8,600.0068.39269.7068,444.84-142.26-386.98364,516.637662,625.64432.001085102-103.8087225368,650.0073.39269.7068,461.20-142.50-434.21364,516.395662,578.41432.001085065-103.8088748938,700.0078.39269.7068,473.38-142.75-482.69364,516.146662,529.93732.001085027-103.809031270										
8,650.0073.39269.7068,461.20-142.50-434.21364,516.395662,578.41432.001085065-103.8088748938,700.0078.39269.7068,473.38-142.75-482.69364,516.146662,529.93732.001085027-103.809031270										
8,700.00 78.39 269.706 8,473.38 -142.75 -482.69 364,516.146 662,529.937 32.001085027 -103.809031270										
							,			
8,800.00 88.39 269.706 8,484.87 -143.26 -581.90 364,515.636 662,430.729 32.001084948 -103.809351301										
8,826.61 91.06 269.706 8,485.00 -143.40 -608.50 364,515.499 662,404.122 32.001084927 -103.809437130										
Begin 91.06° lateral	-			.,				,		



Planning Report - Geographic

Database:	DB_Feb2822	Local Co-ordinate Reference:	Well Phantom Bank 31 Fed Com No. 202H
Company:	Flat Creek Resources, LLC	TVD Reference:	RKB=3114+26.5 @ 3140.50ft
Project:	Eddy County, New Mexico NAD27 NM	MD Reference:	RKB=3114+26.5 @ 3140.50ft
Site:	Phantom Bank 31 Fed Com	North Reference:	Grid
Well:	Phantom Bank 31 Fed Com No. 202H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		

Planned Survey

Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Map Northing	Map Easting		
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(usft)	(usft)	Latitude	Longitude
8,900.00	91.06	269.706	8,483.65	-143.77	-681.88	364,515.123	662,330.745	32.001084868	-103.809673832
9,000.00	91.06	269.706	8,481.81	-144.29	-781.86	364,514.609	662,230.764	32.001084787	-103.809996357
9,100.00	91.06	269.706	8,479.97	-144.80	-881.84	364,514.096	662,130.782	32.001084705	-103.810318882
9,200.00	91.06	269.706	8,478.12	-145.31	-981.82	364,513.582	662,030.801	32.001084623	-103.810641407
9,300.00	91.06	269.706	8,476.28	-145.83	-1,081.81	364,513.069	661,930.819	32.001084540	-103.810963932
9,400.00	91.06	269.706	8,474.44	-146.34	-1,181.79	364,512.555	661,830.838	32.001084456	-103.811286456
9,500.00	91.06	269.706	8,472.60	-146.85	-1,281.77	364,512.041	661,730.856	32.001084371	-103.811608981
9,600.00	91.06	269.706	8,470.76	-147.37	-1,381.75	364,511.528	661,630.875	32.001084285	-103.811931506
9,700.00	91.06	269.706	8,468.92	-147.88	-1,481.73	364,511.014	661,530.893	32.001084198	-103.812254031
9,800.00	91.06	269.706	8,467.07	-148.40	-1,581.71	364,510.501	661,430.912	32.001084111	-103.812576556
9,900.00	91.06	269.706	8,465.23	-148.91	-1,681.70	364,509.987	661,330.930	32.001084023	-103.812899081
10,000.00	91.06	269.706	8,463.39	-149.42	-1,781.68	364,509.474	661,230.949	32.001083934	-103.813221606
10,100.00	91.06	269.706	8,461.55	-149.94	-1,881.66	364,508.960	661,130.967	32.001083844	-103.813544131
10,200.00	91.06	269.706	8,459.71	-150.45	-1,981.64	364,508.447	661,030.986	32.001083753	-103.813866656
10,300.00	91.06	269.706	8,457.87	-150.96	-2,081.62	364,507.933	660,931.004	32.001083662	-103.814189181
10,400.00	91.06	269.706	8,456.02	-151.48	-2,181.60	364,507.420	660,831.023	32.001083569	-103.814511706
10,500.00	91.06	269.706	8,454.18	-151.99	-2,281.59	364,506.906	660,731.041	32.001083476	-103.814834232
10,600.00	91.06	269.706	8,452.34	-152.50	-2,381.57	364,506.393	660,631.060	32.001083382	-103.815156757
10,700.00	91.06	269.706	8,450.50	-153.02	-2,481.55	364,505.879	660,531.078	32.001083287	-103.815479282
10,800.00	91.06	269.706	8,448.66	-153.53	-2,581.53	364,505.366	660,431.097	32.001083192	-103.815801807
10,900.00	91.06	269.706	8,446.82	-154.04	-2,681.51	364,504.852	660,331.115	32.001083095	-103.816124332
11,000.00	91.06	269.706	8,444.97	-154.56	-2,781.50	364,504.339	660,231.134	32.001082998	-103.816446857
11,100.00	91.06	269.706	8,443.13	-155.07	-2,881.48	364,503.825	660,131.152	32.001082900	-103.816769382
11,200.00	91.06	269.706	8,441.29	-155.58	-2,981.46	364,503.312	660,031.171	32.001082801	-103.817091907
11,300.00	91.06	269.706	8,439.45	-156.10	-3,081.44	364,502.798	659,931.189	32.001082701	-103.817414432
11,400.00	91.06	269.706	8,437.61	-156.61	-3,181.42	364,502.285	659,831.208	32.001082601	-103.817736958
11,500.00	91.06	269.706	8,435.77	-157.13	-3,281.40	364,501.771	659,731.226	32.001082500	-103.818059483
11,600.00	91.06	269.706	8,433.92	-157.64	-3,381.39	364,501.258	659,631.244	32.001082397	-103.818382008
11,700.00	91.06	269.706	8,432.08	-158.15	-3,481.37	364,500.744	659,531.263	32.001082294	-103.818704533
11,800.00	91.06	269.706	8,430.24	-158.67	-3,581.35	364,500.230	659,431.281	32.001082191	-103.819027058
11,900.00	91.06	269.706	8,428.40	-159.18	-3,681.33	364,499.717	659,331.300	32.001082086	-103.819349584
12,000.00	91.06	269.706	8,426.56	-159.69	-3,781.31	364,499.203	659,231.318	32.001081981	-103.819672109
12,100.00	91.06	269.706	8,424.72	-160.21	-3,881.29	364,498.690	659,131.337	32.001081874	-103.819994634
12,200.00	91.06	269.706	8,422.87	-160.72	-3,981.28	364,498.176	659,031.355	32.001081767	-103.820317159
12,300.00	91.06	269.706	8,421.03	-161.23	-4,081.26	364,497.663	658,931.374	32.001081659	-103.820639685
12,400.00	91.06	269.706	8,419.19	-161.75	-4,181.24	364,497.149	658,831.392	32.001081551	-103.820962210
12,500.00	91.06	269.706	8,417.35	-162.26	-4,281.22	364,496.636	658,731.411	32.001081441	-103.821284735
12,600.00	91.06	269.706	8,415.51	-162.77	-4,381.20	364,496.122	658,631.429	32.001081331	-103.821607260
12,700.00	91.06	269.706	8,413.67	-163.29	-4,481.18	364,495.609	658,531.448	32.001081219	-103.821929786
12,800.00	91.06	269.706	8,411.82	-163.80	-4,581.17	364,495.095	658,431.466	32.001081107	-103.822252311
12,900.00	91.06	269.706	8,409.98	-164.31	-4,681.15	364,494.582	658,331.485	32.001080995	-103.822574836
13,000.00	91.06	269.706	8,408.14	-164.83	-4,781.13	364,494.068	658,231.503	32.001080881	-103.822897362
13,100.00	91.06	269.706	8,406.30	-165.34	-4,881.11	364,493.555	658,131.522	32.001080767	-103.823219887
13,200.00	91.06	269.706	8,404.46	-165.86	-4,981.09	364,493.041	658,031.540	32.001080651	-103.823542412
13,300.00	91.06	269.706	8,402.62	-166.37	-5,081.07	364,492.528	657,931.559	32.001080535	-103.823864938
13,400.00	91.06	269.706	8,400.77 8 308 03	-166.88	-5,181.06	364,492.014 364,491.501	657,831.577 657,731,506	32.001080418 32.001080300	-103.824187463
13,500.00 13,600.00	91.06	269.706	8,398.93 8 307 00	-167.40	-5,281.04	364,491.501 364,490.987	657,731.596		-103.824509988
13,600.00	91.06	269.706 269.706	8,397.09 8 305 25	-167.91 -168.42	-5,381.02 -5,481.00	364,490.987 364,490.474	657,631.614 657,531.633	32.001080182	-103.824832514
13,700.00	91.06		8,395.25 8 304 20		-5,481.00 -5,533.07	364,490.474 364,490.206		32.001080063	-103.825155039 -103.825323000
	91.06	269.706	8,394.29	-168.69	-0,000.07	304,490.200	657,479.565	32.001080000	-103.625323000
	52.08 MD 8394		0 202 44	100.04	E E00 00	264 400 000	657 404 054	22.004070040	102 005 177505
13,800.00	91.06	269.706	8,393.41	-168.94	-5,580.98	364,489.960	657,431.651	32.001079942	-103.825477565
13,822.15	91.06	269.706	8,393.00	-169.05	-5,603.13	364,489.846	657,409.506	32.001079916	-103.825549000
PBHL/TC) 13822.15 MD	0 8393.00 TVE)						



Database:	DB_Feb2822	Local Co-ordinate Reference:	Well Phantom Bank 31 Fed Com No. 202H
Company:	Flat Creek Resources, LLC	TVD Reference:	RKB=3114+26.5 @ 3140.50ft
Project:	Eddy County, New Mexico NAD27 NM	MD Reference:	RKB=3114+26.5 @ 3140.50ft
Site:	Phantom Bank 31 Fed Com	North Reference:	Grid
Well:	Phantom Bank 31 Fed Com No. 202H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Phantom 202 PBHL 380 - plan misses target of - Point	0.00 enter by 0.03	0.000 oft at 13822.4	8,393.00 15ft MD (839	-169.02 3.00 TVD, -16	-5,603.13 89.05 N, -5603	364,489.877 8.13 E)	657,409.506	32.001080000	-103.825549000
Phantom 202 LTP 380 F - plan hits target cente - Point	0.00 er	0.000	8,394.29	-168.69	-5,533.07	364,490.206	657,479.565	32.001080000	-103.825323000
Phantom 202 FTP 380 F - plan misses target co - Point	0.00 enter by 33.3	0.000 80ft at 8625.0	8,485.00 01ft MD (845	-142.36 3.54 TVD, -14	-399.52 2.38 N, -410.4	364,516.539 42 E)	662,613.100	32.001085000	-103.808763000

an Annotations				
Measured	Vertical	Local Coor	dinates	
Depth (ft)	Depth (ft)	+N/-S (ft)	+E/-W (ft)	Comment
3,800.00	3,800.00	0.00	0.00	KOP Begin 2°/100' build
3,960.72	3,960.64	-4.44	-0.79	Begin 3.21° tangent
6,343.19	6,339.36	-135.96	-24.21	Begin 2°/100' drop
6,503.92	6,500.00	-140.40	-25.00	Begin vertical hold
7,916.06	7,912.14	-140.40	-25.00	Begin 10°/100' build
8,826.61	8,485.00	-143.40	-608.50	Begin 91.06° lateral
13,752.08	8,394.29	-168.69	-5,533.07	LTP 13752.08 MD 8394.29 TVD
13,822.15	8,393.00	-169.05	-5,603.13	PBHL/TD 13822.15 MD 8393.00 TVD

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Flat Creek Resources LLC		
LEASE NO.:			
LOCATION:	Section 32, T.26 S., R.31 E., NMPM		
COUNTY:	Eddy County, New Mexico		
WELL NAME & NO.:	Phantom Bank 31 Fed Com 101H		
SURFACE HOLE FOOTAGE:	520'/N & 300'/W		
BOTTOM HOLE FOOTAGE			
ATS/API ID:			
APD ID:	10400085329		
Sundry ID:			
WELL NAME & NO.:	Phantom Bank 31 Fed Com 102H		
SURFACE HOLE FOOTAGE:	550'/S & 300'/W		
BOTTOM HOLE FOOTAGE	430'/S & 30'/W		
ATS/API ID:	ATS-22-1251		
APD ID:	10400085332		
Sundry ID:	N/A		
	•		
WELL NAME & NO.:	Phantom Bank 31 Fed Com 201H		
SURFACE HOLE FOOTAGE:	550'/N & 300'/W		
BOTTOM HOLE FOOTAGE	430'/N & 30'/W		
ATS/API ID:	ATS-22-1250		
APD ID:	10400085341		
Sundry ID:	N/A		
WELL NAME & NO.:	Phantom Bank 31 Fed Com 202H		
SURFACE HOLE FOOTAGE:	520'/S & 300'/W		
BOTTOM HOLE FOOTAGE	380'/S & 30'/W		
ATS/API ID:	ATS-22-1249		
APD ID:	10400085342		
Sundry ID:	N/A		
WELL NAME & NO.:	Phantom Bank 31 Fed Com 511H		
SURFACE HOLE FOOTAGE:	520'/N & 350'/W		
BOTTOM HOLE FOOTAGE	1050'/N & 30'/W		
ATS/API ID:	ATS-22-1264		
APD ID:	10400085351		
Sundry ID:	N/A		

Approval Date: 03/23/2023

WELL NAME & NO.:	Phantom Bank 31 Fed Com 561H
SURFACE HOLE FOOTAGE:	550'/N & 350'/W
BOTTOM HOLE FOOTAGE	1050'/S & 30'/W
ATS/API ID:	ATS-22-1265
APD ID:	10400085356
Sundry ID:	N/A

COA

H2S	C Yes	🖸 No	
Potash	🖸 None	C Secretary	C R-111-P
Cave/Karst Potential	Low	🖸 Medium	🕻 High
Cave/Karst Potential	Critical		
Variance	C None	🖸 Flex Hose	C Other
Wellhead	Conventional	🖸 Multibowl	🖸 Both
Wellhead Variance	C Diverter		
Other	✓ 4 String	Capitan Reef	□ WIPP
Other	🗹 Fluid Filled	Pilot Hole	Open Annulus
Cementing	Contingency	EchoMeter	Primary Cement
	Cement Squeeze		Squeeze
Special Requirements	Water Disposal	COM	🗖 Unit
Special Requirements	Batch Sundry		
Special Requirements	□ Break Testing	□ Offline	Casing
Variance		Cementing	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 Onshore Order 6 requirements, 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 13-3/8 inch surface casing shall be set at approximately 1150 feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.

- b. Wait on cement (WOC) time for a primary cement job will be a minimum of $\underline{8}$ <u>hours</u> 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.

Intermediate casing must be kept fluid filled to meet BLM minimum collapse requirement.

- 2. The minimum required fill of cement behind the 10-3/4 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 <u>Medium Cave/Karst Areas</u> if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.
- 3. The minimum required fill of cement behind the 7-5/8 inch intermediate casing is:
 - Cement should tie-back at least 200 feet into previous casing string. 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.
- 4. The minimum required fill of cement behind the 5-1/2 inch production casing is:
 - Cement should tie-back at least 200 feet into previous casing string. Operator shall provide method of verification.
 Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.

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 **5000 (5M)** psi.
- b. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the **10-3/4** intermediate casing shoe shall be **5000 (5M)** psi.
- c. 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:

- a. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the 13-3/8 inch surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 5000 (5M) psi.
 - 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 OOGO2.III.A.2.i must be followed.

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 Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575) 361-2822
 - Lea County
 Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575)
 689-5981
- 1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.
- 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
- 3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

- 1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
- <u>Wait on cement (WOC) for Potash Areas:</u> After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least <u>24</u> <u>hours</u>. WOC time will be recorded in the driller's log. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 3. <u>Wait on cement (WOC) for Water Basin:</u> 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 <u>8 hours</u>. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
- 5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
- 6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
- 7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
- 8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

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B. PRESSURE CONTROL

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
- 2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
- 3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
- 4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.
 - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- 5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin

Approval Date: 03/23/2023

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 Onshore Order 2 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
- d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- e. The results of the test shall be reported to the appropriate BLM office.
- f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.
- C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

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

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

LVO 3/3/2023

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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 <u>Well Control Equipment:</u>

• See Drilling Operations Plan Schematics

6 <u>Communication:</u>

- 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:

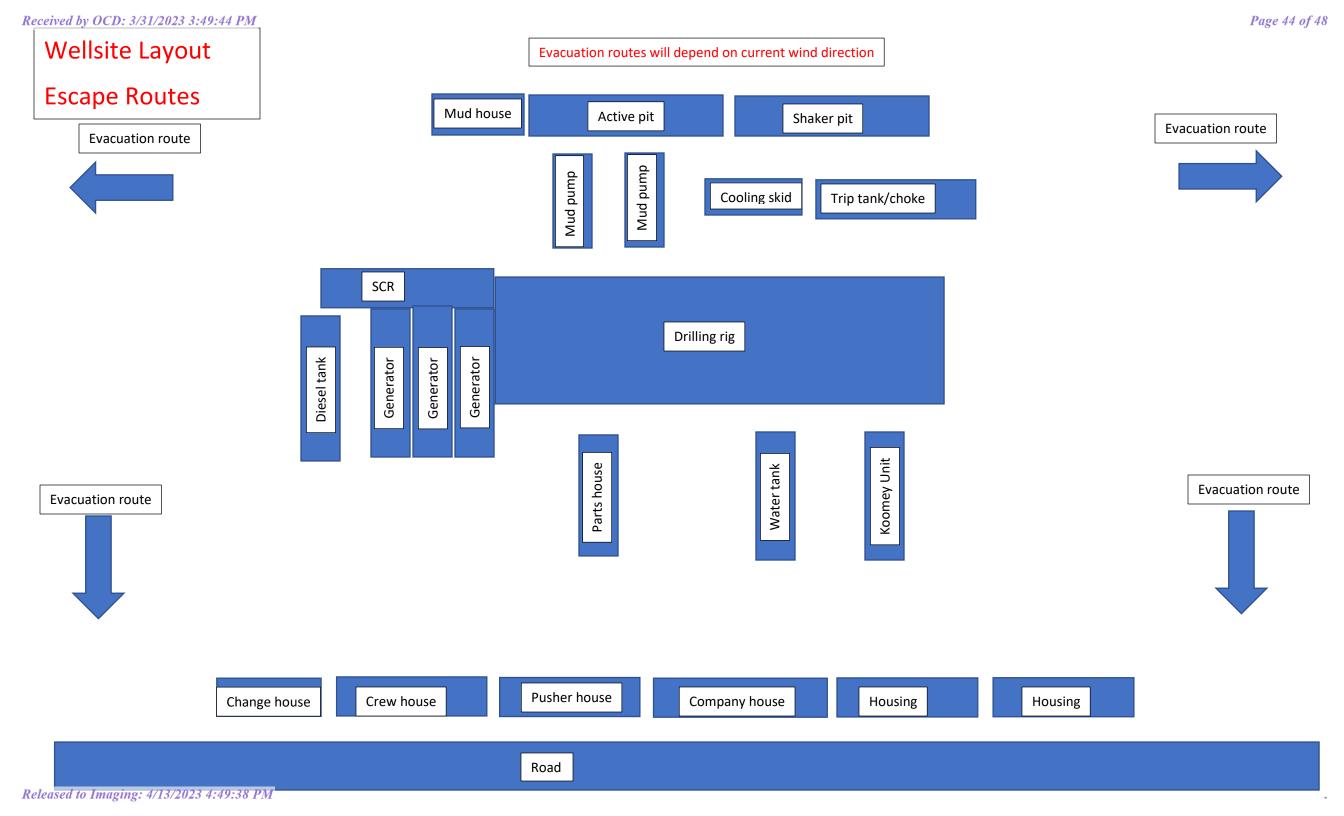
• No DST cores are planned at this time

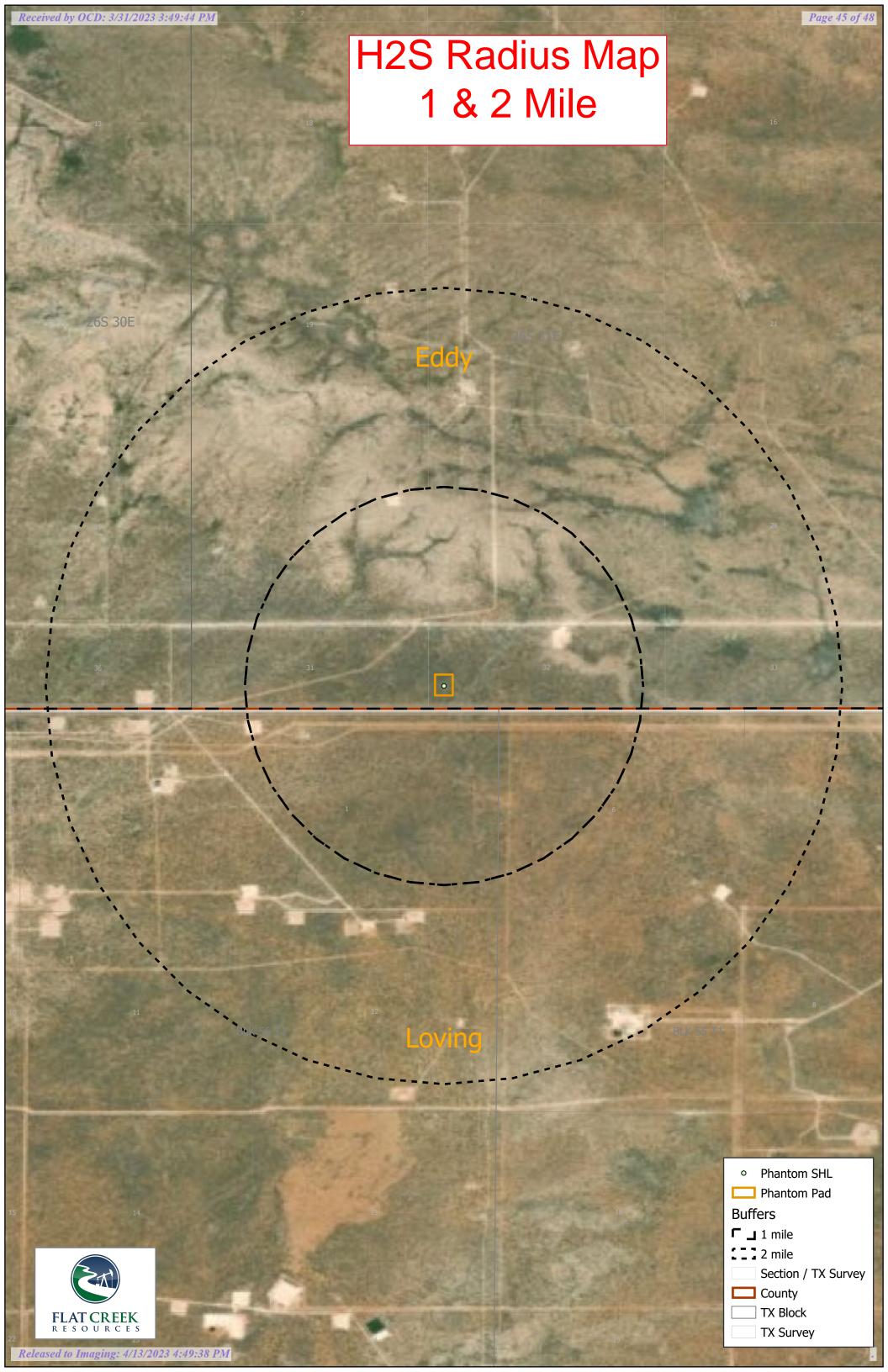
8 Drilling contractor supervisor will be required to be familiar with the effects H2S has on tubulars good and other mechanical equipment

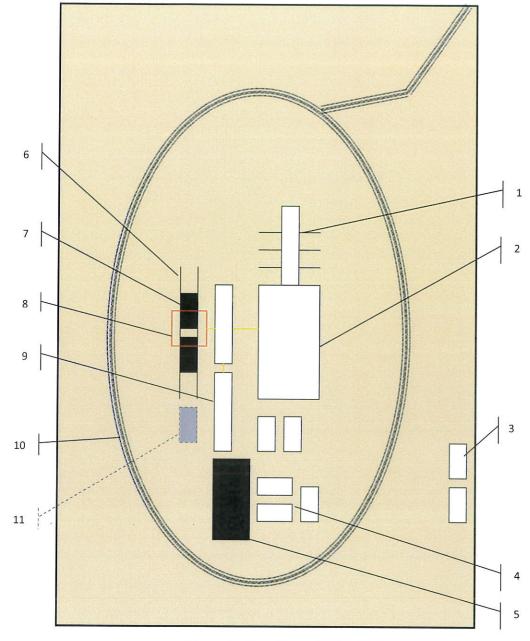
9 If H2S is encountered, mud system will be altered if necessary to maintain control of formation. A mud gas separator will be brought into service along with H2S scavengers if necessary

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 Sherriff	575.887.7551	911	
Lea County Fire Service	575.391.2983	911	
Lea County Sherriff	575.396.3611	911	
Jal Police Department	575.395.2121	911	
Jal Fire Department	575.395.2221	911	
Flat Creek Resources	817.731.4100		







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





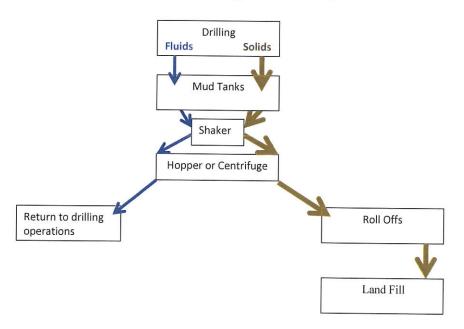
Above: Centrifugal Closed Loop System



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)





Photos Courtesy of Gandy Corporation Oil PE. **BST** PROVIDING PERMITS for LAND USERS

37Verano Loop, Santa Fe, New Mexico 87508 (505) 466-8120 INC.

Field Service

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

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

District III

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

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

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

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Action 202959

CONDITIONS

Operator:	OGRID:	
Flat Creek Resources, LLC	374034	
777 Main St.	Action Number:	
Fort Worth, TX 76102	202959	
	Action Type:	
	[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)	

CONDITIONS

CONDITION		
Created By	Condition	Condition Date
dmcclure	Notify OCD 24 hours prior to casing & cement	4/13/2023
dmcclure	Will require a File As Drilled C-102 and a Directional Survey with the C-104	4/13/2023
dmcclure	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	4/13/2023
dmcclure	Cement is required to circulate on both surface and intermediate1 strings of casing	4/13/2023
dmcclure	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	4/13/2023