Form 3160-3 FORM APPROVED OMB No. 1004-0137 (June 2015) Expires: January 31, 2018 **UNITED STATES** 5. Lease Serial No. DEPARTMENT OF THE INTERIOR NMNM0441951 BUREAU OF LAND MANAGEMENT APPLICATION FOR PERMIT TO DRILL OR REENTER 6. If Indian, Allotee or Tribe Name 7. If Unit or CA Agreement, Name and No. ✓ DRILL REENTER 1a. Type of work: 1b. Type of Well: Oil Well ✓ Gas Well Other 8. Lease Name and Well No. 1c. Type of Completion: Hydraulic Fracturing ✓ Single Zone Multiple Zone JAWBONE FED COM LW 21H 2. Name of Operator 9. API Well No. FLAT CREEK RESOURCES LLC 30-015-55090 3a. Address 3b. Phone No. (include area code) 10. Field and Pool, or Exploratory 777 MAIN STREET, SUITE 3600, FORT WORTH, TX 761 (817) 310-8570 PURPLE SAGE/WOLFCAMP 4. Location of Well (Report location clearly and in accordance with any State requirements.*) 11. Sec., T. R. M. or Blk. and Survey or Area SEC 2/T25S/R26E/NMP At surface SWSE / 395 FSL / 2021 FEL / LAT 32.152722 / LONG -104.261807 At proposed prod. zone NWNE / 330 FNL / 1660 FEL / LAT 32.180057 / LONG -104.260478 14. Distance in miles and direction from nearest town or post office* 12. County or Parish 13 State **EDDY** NM 7 miles 15. Distance from proposed* 16. No of acres in lease 17. Spacing Unit dedicated to this well 395 feet location to nearest property or lease line, ft. 640.32 (Also to nearest drig. unit line, if any) 18. Distance from proposed location* 19. Proposed Depth 20. BLM/BIA Bond No. in file to nearest well, drilling, completed, 30 feet 9525 feet / 19287 feet FED: NMB001675 applied for, on this lease, ft. 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 22. Approximate date work will start* 23. Estimated duration 3385 feet 05/01/2024 60 days 24. Attachments The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable) 1. Well plat certified by a registered surveyor. 4. Bond to cover the operations unless covered by an existing bond on file (see 2. A Drilling Plan. Item 20 above) 3. A Surface Use Plan (if the location is on National Forest System Lands, the 5. Operator certification. 6. Such other site specific information and/or plans as may be requested by the SUPO must be filed with the appropriate Forest Service Office). 25. Signature Name (Printed/Typed) Date BRIAN WOOD / Ph: (817) 310-8570 (Electronic Submission) 10/31/2023 Title Permitting Agent Approved by (Signature) Date Name (Printed/Typed) (Electronic Submission) CODY LAYTON / Ph: (575) 234-5959 05/10/2024 Title Office Assistant Field Manager Lands & Minerals Carlsbad Field Office Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. Conditions of approval, if any, are attached. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency



of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction

(Continued on page 2)

*(Instructions on page 2)

C-102.dwg 21H\DWG\21H \mathbb{Z} 1 Lease\Wells\-07 Jawbone 1 Lease\.00 Jawbone Creek\002 Flat

8.005

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 Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170

District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462 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

WELL LOCATION AND ACREAGE DEDICATION PLAT

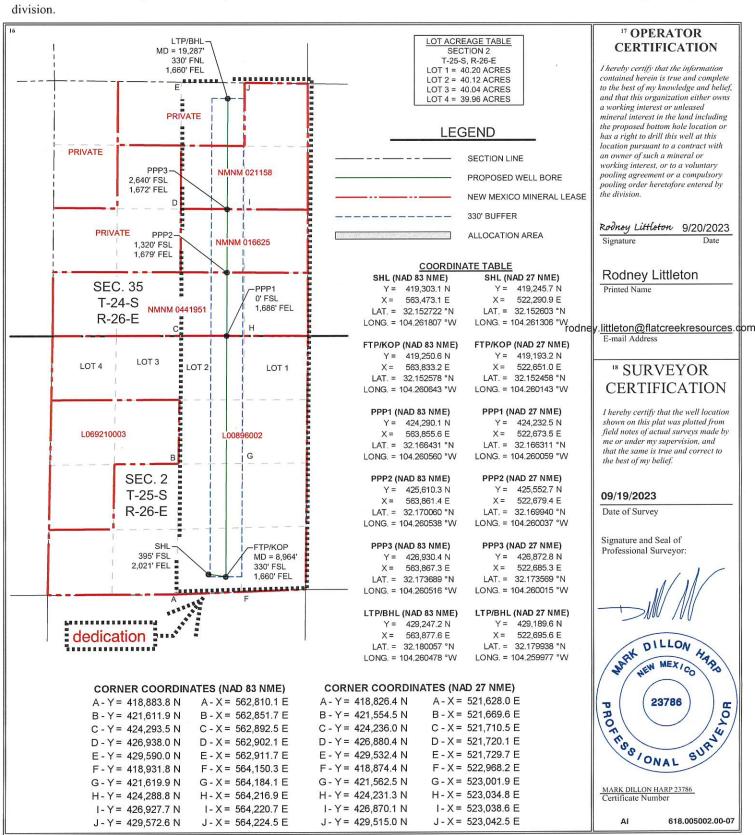
State of New Mexico

	² Pool Code	' Pool Name	ol Name				
5090	98220	PURPLE SAGE; WOLFC	AMP (GAS)				
	⁵ Pı	roperty Name	⁶ Well Number				
	JAWBO	NE FED COM LW	21H				
	⁸ O ₁	perator Name	⁹ Elevation				
FLAT CREEK RESOURCES, LLC 3							
	5090	5090 98220 JAWBOI	98220 PURPLE SAGE; WOLFCA SProperty Name JAWBONE FED COM LW SOperator Name				

Surface Location UL or lot no. Section Township Range East/West line Lot Idn Feet from the North/South line Feet from the County 0 2 25 S 26 E 395 SOUTH EAST **EDDY** 2.021 Bottom Hole Location If Different From Surface UL or lot no. Section Township Rang Lot Idn Feet from the North/South line Feet from the East/West line County 1,660 26 E NORTH B 35 24 S 330 EAST **EDDY**

²Dedicated Acres 13 Joint or Infill 14 Consolidation Code C 15 Order No.

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



Flat Creek Resources, LLC

I. Operator:

Jawbone Fed Com LW 22H

State of New Mexico Energy, Minerals and Natural Resources Department

Submit Electronically Via E-permitting

Date: 05 / 07 / 2024

1500

1000

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

NATURAL GAS MANAGEMENT PLAN

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

Section 1 – Plan Description Effective May 25, 2021

OGRID: 374034

II. Type: ☑ Original □	l Amendment	t due to 🗆 19.15.27.9	.D(6)(a) NMA0	C □ 19.15.27.9.D	(6)(b) NMAC □	Other.
If Other, please describe	:					
III. Well(s): Provide the be recompleted from a si	_				wells proposed to	be drilled or proposed to
Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Jawbone Fed Com LW 19H		O-2-T25S-R26E	393' FSL 1961 FEL	900	1000	1500
Jawbone Fed Com LW 20H		O-2-T25S-R26E	394' FSL 1991'	900	1000	1500
Jawhana End Com LW 21H		O 2 TOES DOSE	395' FSL 2021'	000	1000	1500

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

O-2-T25S-R26E

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

Well Name	API	Spud Date	TD Reached	Completion	Initial Flow	First Production
			Date	Commencement Date	Back Date	Date
Jawbone Fed Com LW 19H		May 1, 2025	May 16, 2025	August 1, 2025	September 1, 2025	September 15,2025
Jawbone Fed Com LW 20H		May 2, 2025	May 30, 2025	August 1, 2025	September 1, 2025	September 15,2025
Jawbone Fed Com LW 21H		May 3, 2025	June 14, 2025	August 1, 2025	September 1, 2025	September 15,2025
Jawbone Fed -Com -LW 22H		May 4, 2025	June 28, 2025	August 1, 2025	September 1, 2025	September 15,2025

- VI. Separation Equipment: Attach a complete description of how Operator will size separation equipment to optimize gas capture.
- VII. Operational Practices: ☑ Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.

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

Section 2 – Enhanced Plan
EFFECTIVE APRIL 1, 2022

			E APRIL 1, 2022	
Beginning April 1, reporting area must			with its statewide natural ga	as capture requirement for the applicable
capture requirement	for the applicable re	eporting area.	tion because Operator is in o	compliance with its statewide natural gas
IX. Anticipated Na	ell	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF
X. Natural Gas Ga	thering System (NC	GGS):		
Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in
production operation	ns to the existing or p	planned interconnect of t		nticipated pipeline route(s) connecting the em(s), and the maximum daily capacity of nected.
_ •		thering system will to the date of first product	1 7 0	ather 100% of the anticipated natural gas
	-	-	• , ,	ted to the same segment, or portion, of the line pressure caused by the new well(s).
☐ Attach Operator'	s plan to manage pro	oduction in response to the	he increased line pressure.	
Section 2 as provide	ed in Paragraph (2) o		27.9 NMAC, and attaches a f	SA 1978 for the information provided in full description of the specific information

(i)

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

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal: ☐ Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system: or ☐ Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system. If Operator checks this box, Operator will select one of the following: Well Shut-In. ☐ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or Venting and Flaring Plan.

Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including: power generation on lease; (a) **(b)** power generation for grid; compression on lease; (c) (d) liquids removal on lease; reinjection for underground storage; (e) **(f)** reinjection for temporary storage; **(g)** reinjection for enhanced oil recovery; fuel cell production; and (h)

Section 4 - Notices

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

other alternative beneficial uses approved by the division.

- Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become (a) 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
- 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.

VI. SEPARATION EQUIPMENT

Flat Creek Resources, LLC, will install:

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

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

VII. OPERATIONAL PRACTICES

NMAC 19.15.27.8 (A) Venting & Flaring of Natural Gas

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

NMAC 19.15.27.8 (B) Venting & Flaring During Drilling

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

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

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

NMAC 19.15.27.8 (D) Venting & Flaring During Production

Flat Creek will not vent or flare natural gas except:

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

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

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

VIII. BEST MANAGEMENT PRACTICES

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

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



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

Drilling Plan Data Report

APD ID: 10400095552

Submission Date: 10/31/2023

Highlighted data reflects the most recent changes

Operator Name: FLAT CREEK RESOURCES LLC

Well Number: 21H

Well Type: CONVENTIONAL GAS WELL

Well Name: JAWBONE FED COM LW

Well Work Type: Drill

Show Final Text

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
13409164	SALADO	3385	0	Ö	SALŤ	USEABLE WATER	N
13409165	BASE OF SALT	1655	1730	1731	ANHYDRITE	NONE	N
13409166	LAMAR	1441	1944	1945	LIMESTONE	NONE	N
13409167	BELL CANYON	1384	2001	2002	SANDSTONE	NATURAL GAS, OIL	N
13409168	CHERRY CANYON	541	2844	2847	SANDSTONE	NATURAL GAS, OIL	N
13409163	BRUSHY CANYON	-506	3891	3914	SANDSTONE	NATURAL GAS	N
13409169	BONE SPRING LIME	-2053	5438	5447	LIMESTONE	NATURAL GAS, OIL	N
13409170	BONE SPRING 1ST	-2970	6355	6366	SANDSTONE	NATURAL GAS, OIL	N
13409171	BONE SPRING 2ND	-3476	6861	6873	SANDSTONE	NATURAL GAS, OIL	N
13409172	BONE SPRING 3RD	-4783	8168	8180	SANDSTONE	NATURAL GAS, OIL	N
13409173	WOLFCAMP	-5116	8501	8513	SHALE	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. The ram-type will be equipped with blind rams on bottom and drill pipe rams on top. Speed head will be installed by a third-party welder under the supervision of the vendors representative.

Requesting Variance? YES

Variance request: A 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. BOP Test Procedures: 1. Use water to test BOPE. 2. Make up test assembly (test plug) and set in the wellhead profile.

Well Name: JAWBONE FED COM LW Well Number: 21H

Ensure the casing valve is left open. Monitor the casing valve outlet while testing for potential leak past the test plug. 3. Circulate through the choke/kill lines, choke manifold, standpipe manifold, and valves to ensure that all lines are full of water. This will prevent pressure drop (compression) while testing. 4. Line up test unit, test rams, valves, and lines as per the following chart. 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 used, no bleed-off of pressure is acceptable. For a test not using a test plug, if a decline in pressure of more than 10% in 30 minutes occurs, then the test will 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 will be recorded in the drilling log.

Choke Diagram Attachment:

Jawbone_LW_Choke_20231031072107.pdf

BOP Diagram Attachment:

Jawbone_LW_BOP_20231031072117.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	300	0	300	3385	3085	300	J-55	54.5	ST&C	8	19.4	DRY	70.2	DRY	70.2
	INTERMED IATE	12.2 5	9.625	NEW	API	N	0	8800	0	8788	0	-5403		OTH ER	43.5	LT&C	1.2	1.9	DRY	5.3	DRY	5.3
3	PRODUCTI ON	8.5	5.5	NEW	API	N	0	19287	0	9525	0	-6140	19287	P- 110	17	BUTT	1.7	2.9	DRY	3	DRY	3

Casing Attachments

Well Name: JAWBONE FED COM LW Well Number: 21H

Casing	Attachments
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Casing ID: 1

String

SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Jawbone_LW_21H_Casing_Design_Assumptions_20231031072345.pdf

Casing ID: 2

String

INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Jawbone_LW_21H_Casing_Design_Assumptions_20231031072424.pdf

Casing ID: 3

String

PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Jawbone_LW_21H_Casing_Design_Assumptions_20231031072503.pdf

Section 4 - Cement

Well Name: JAWBONE FED COM LW Well Number: 21H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	200	170	1.68	12.8	285	100	35/65 Poz Premium C	5% bwow salt + 6% bentonite gel + 0.4% CPT-503P + 1/8 #/sk Dura-fiber
SURFACE	Tail		200	300	105	1.34	14.8	140	100	Class C	1% CaCl2 + ¼ #/sk cellophane flakes
INTERMEDIATE	Lead		0	1500	2325	1.68	12.8	3906	50	35/65 Poz Premium C	5% bwow salt + 6% bentonite gel + 0.4% CPT-503P + 1/8 #/sk Dura-fiber
INTERMEDIATE	Tail		1500	8800	135	1.74	13.5	234	50	Class C	1% CaCl2 + 4% bentonite gel + 0.4% CPT-503P + 1/8 #/sk Dura-fiber
PRODUCTION	Lead		0	7500	705	2.82	10.4	1988	15	Class H	10% bwoc light weight bead + 5% silica fume alternative + 0.2% suspension aid + 0.3% fluid loss additive + 0.3% dispersant + 0.2% retarder
PRODUCTION	Tail		7500	1928 7	2190	1.42	13.2	3109	15	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 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

Well Name: JAWBONE FED COM LW Well Number: 21H

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	Н	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	300	OTHER : Fresh Water	8.7	8.7							
300	8850	OTHER : Cut Brine	10	10							
8850	1928 7	OIL-BASED MUD	12.5	12.5							

Section 6 - Test, Logging, Coring

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

GR and resistivity logs will be run.

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

GAMMA RAY LOG,

Coring operation description for the well:

No core or open hole or cased hole log is planned.

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 4763 Anticipated Surface Pressure: 2667

Anticipated Bottom Hole Temperature(F): 207

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

Jawbone_LW_H2S_Plan_20231031072731.pdf

Well Name: JAWBONE FED COM LW Well Number: 21H

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Jawbone_LW_21H_Horizontal_Plan_20231031072806.pdf

Other proposed operations facets description:

Other proposed operations facets attachment:

Jawbone_LW_21H_Anticollision_Report_20231031072833.pdf Jawbone_LW_Speedhead_Specs_20231031072853.pdf CoFlex_Certs_RDC_20231031072946.pdf Jawbone_LW_21H_Drill_Plan_Rev_20240125100023.pdf

Other Variance attachment:



Database: DT_Aug2923v16

Company: Flat Creek Resources, LLC

Project: Eddy County, New Mexico NAD27 NME

Site: Jawbone

Well: Jawbone Fed Com LW 21H

Wellbore: Original Hole

Design: rev0

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Jawbone Fed Com LW 21H RKB=3385+26.5 @ 3411.50ft

RKB=3385+26.5 @ 3411.50ft

Grid

Minimum Curvature

Project Eddy County, New Mexico NAD27 NME

Map System:US State Plane 1927 (Exact solution)Geo Datum:NAD 1927 (NADCON CONUS)

Map Zone: New Mexico East 3001

System Datum:

Mean Sea Level

Site Jawbone

 Site Position:
 Northing:
 419,218.600 usft
 Latitude:
 32.152532039

 From:
 Map
 Easting:
 520,115.600 usft
 Longitude:
 -104.268335365

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

Well Jawbone Fed Com LW 21H, Surf loc: 395 FSL 2021 FEL Section 02-T25S-R26E

 Well Position
 +N/-S
 0.00 ft
 Northing:
 419,245.700 usft
 Latitude:
 32.152602732

 +E/-W
 0.00 ft
 Easting:
 522,290.900 usft
 Longitude:
 -104.261306433

Position Uncertainty 0.00 ft Wellhead Elevation: ft Ground Level: 3,385.00 ft

Grid Convergence: 0.04 °

Wellbore Original Hole

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

 IGRF2020
 9/8/2023
 6.59
 59.66
 47,148.64948824

Design rev0

Audit Notes:

Version: PLAN Tie On Depth: 0.00

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

 0.00
 0.00
 0.00
 0.256

Plan Survey Tool Program Date 9/8/2023

Depth From Depth To

(ft) (ft) Survey (Wellbore) Tool Name Remarks

1 0.00 19,287.47 rev0 (Original Hole) MWD

OWSG MWD - Standard

Plan Sections Vertical Build Measured Dogleg Turn Depth Inclination Azimuth Depth +N/-S +E/-W Rate Rate Rate TFO (°/100ft) (°/100ft) (°/100ft) (ft) (°) (°) (ft) (ft) (ft) (°) **Target** 0.00 0.000 0.00 0.00 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 1,488.90 3.78 98.295 1,488.76 -0.90 2.00 0.00 98.29 6.16 2.00 6,822.97 3.78 98.295 6,811.24 -51.60 353.94 0.00 0.00 0.00 0.00 7,011.87 0.00 0.000 7,000.00 -52.50 360.10 2.00 0.00 180.00 -2 00 8,963.91 0.000 8,952.04 -52.50 360.10 0.00 0.00 Jawbone 21H FTP 33 0.00 0.00 0.00 9,863.90 90.00 0.256 9,525.00 520.45 362.66 10.00 10.00 0.03 0.26 9,525.00 9,943.92 404.70 0.00 19,287.47 90.00 0.256 0.00 0.00 0.00 Jawbone 21H LTP 33



Database: DT_Aug2923v16

Company: Flat Creek Resources, LLC

Project: Eddy County, New Mexico NAD27 NME Site: Jawbone

Well: Jawbone Fed Com LW 21H

Wellbore: Original Hole
Design: rev0

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Jawbone Fed Com LW 21H RKB=3385+26.5 @ 3411.50ft RKB=3385+26.5 @ 3411.50ft

Grid

esign:	revu								
lanned 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
400.00									
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
KOP Begin 2	2°/100' build								
1,400.00	2.00	98.295	1,399.98	-0.25	1.73	-0.24	2.00	2.00	0.00
1,488.90	3.78	98.295	1,488.76	-0.90	6.16	-0.87	2.00	2.00	0.00
Begin 3.78° t	angent								
1,500.00	3.78	98.295	1,499.84	-1.00	6.88	-0.97	0.00	0.00	0.00
1,600.00	3.78	98.295	1,599.62	-1.95	13.40	-1.89	0.00	0.00	0.00
1,700.00	3.78	98.295	1,699.40	-2.90	19.92	-2.82	0.00	0.00	0.00
1,800.00	3.78	98.295	1,799.19	-3.86	26.44	-3.74	0.00	0.00	0.00
1,900.00	3.78	98.295	1,898.97	-4.81	32.96	-4.66	0.00	0.00	0.00
2,000.00	3.78	98.295	1,998.75	-5.76	39.48	-5.58	0.00	0.00	0.00
2,100.00	3.78	98.295	2,098.54	-6.71	46.00	-6.50	0.00	0.00	0.00
2,200.00	3.78	98.295	2,198.32	-7.66	52.52	-7.42	0.00	0.00	0.00
2,300.00	3.78	98.295	2,298.10	-8.61	59.04	-8.34	0.00	0.00	0.00
2,400.00	3.78	98.295	2,397.88	-9.56	65.56	-9.27	0.00	0.00	0.00
2,500.00	3.78	98.295	2,497.67	-10.51	72.08	-10.19	0.00	0.00	0.00
2,600.00	3.78	98.295	2,597.45	-11.46	78.60	-11.11	0.00	0.00	0.00
2,700.00	3.78	98.295	2,697.23	-12.41	85.12	-12.03	0.00	0.00	0.00
2,800.00	3.78	98.295	2,797.01	-13.36	91.64	-12.95	0.00	0.00	0.00
2,900.00	3.78	98.295	2,896.80	-14.31	98.16	-13.87	0.00	0.00	0.00
3,000.00	3.78	98.295	2,996.58	-15.26	104.68	-14.79	0.00	0.00	0.00
3,100.00	3.78	98.295	3,096.36	-16.21	111.20	-15.72	0.00	0.00	0.00
3,200.00	3.78	98.295	3,196.14	-17.16	117.72	-16.64	0.00	0.00	0.00
3,300.00	3.78	98.295	3,295.93	-18.11	124.24	-17.56	0.00	0.00	0.00
3,400.00	3.78	98.295	3,395.71	-19.06	130.76	-18.48	0.00	0.00	0.00
3,500.00	3.78	98.295	3,495.49	-20.01	137.28	-19.40	0.00	0.00	0.00
3,600.00	3.78	98.295	3,595.28	-20.97	143.80	-20.32	0.00	0.00	0.00
3,700.00	3.78	98.295	3,695.06	-21.92	150.32	-21.24	0.00	0.00	0.00
3,800.00	3.78	98.295	3,794.84	-22.87	156.84	-22.17	0.00	0.00	0.00
3,900.00	3.78	98.295	3,894.62	-23.82	163.36	-23.09	0.00	0.00	0.00
4,000.00	3.78	98.295	3,994.41	-24.77	169.88	-24.01	0.00	0.00	0.00
4,100.00	3.78	98.295	4,094.19	-25.72	176.40	-24.93	0.00	0.00	0.00
4,200.00	3.78	98.295	4,193.97	-26.67	182.92	-25.85	0.00	0.00	0.00
4,300.00	3.78	98.295	4,193.97	-27.62	189.44	-26.77	0.00	0.00	0.00
4,400.00	3.78	98.295	4,393.54	-28.57	195.96	-27.69	0.00	0.00	0.00
4,500.00	3.78	98.295	4,493.32	-29.52	202.48	-28.62	0.00	0.00	0.00
4,600.00	3.78	98.295	4,593.10	-30.47	202.40	-29.54	0.00	0.00	0.00
4,700.00		98.295	4,692.89	-31.42	215.52	-29.54			
	3.78						0.00	0.00	0.00
4,800.00	3.78	98.295	4,792.67	-32.37	222.04	-31.38	0.00	0.00	0.00
4,900.00	3.78	98.295	4,892.45	-33.32	228.56	-32.30	0.00	0.00	0.00



Database: DT_Aug2923v16

Company: Flat Creek Resources, LLC

Project: Eddy County, New Mexico NAD27 NME

Site: Jawbone

Well: Jawbone Fed Com LW 21H

Wellbore: Original Hole
Design: rev0

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Jawbone Fed Com LW 21H RKB=3385+26.5 @ 3411.50ft RKB=3385+26.5 @ 3411.50ft

Grid

sigii.									
anned Survey									
									_
Measured			Vertical			Vertical	Dogleg	Build	Turn
Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Section	Rate	Rate	Rate
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	(°/100ft)	(°/100ft)
5,000.00	3.78	98.295	4,992.23	-34.27	235.08	-33.22	0.00	0.00	0.00
5,100.00	3.78	98.295	5,092.02	-35.22	241.60	-34.14	0.00	0.00	0.00
5,200.00	3.78	98.295	5,191.80	-36.17	248.12	-35.07	0.00	0.00	0.00
5,300.00	3.78	98.295	5,291.58	-37.13	254.64	-35.99	0.00	0.00	0.00
5,400.00	3.78	98.295	5.391.36	-38.08	261.16	-36.91	0.00	0.00	0.00
5,500.00	3.78	98.295	5,491.15	-39.03	267.68	-37.83	0.00	0.00	0.00
,									
5,600.00	3.78	98.295	5,590.93	-39.98	274.20	-38.75	0.00	0.00	0.00
5,700.00	3.78	98.295	5,690.71	-40.93	280.72	-39.67	0.00	0.00	0.00
5,800.00	3.78	98.295	5,790.50	-41.88	287.24	-40.59	0.00	0.00	0.00
5,900.00	3.78	98.295	5,890.28	-42.83	293.76	-41.52	0.00	0.00	0.00
,									
6,000.00	3.78	98.295	5,990.06	-43.78	300.28	-42.44	0.00	0.00	0.00
6,100.00	3.78	98.295	6,089.84	-44.73	306.80	-43.36	0.00	0.00	0.00
6,200.00	3.78	98.295	6,189.63	-45.68	313.32	-44.28	0.00	0.00	0.00
6,300.00	3.78	98.295	6,289.41	-46.63	319.84	-45.20	0.00	0.00	0.00
6,400.00	3.78	98.295	6,389.19	-47.58	326.36	-46.12	0.00	0.00	0.00
6,500.00	3.78	98.295	6,488.97	-48.53	332.88	-47.04	0.00	0.00	0.00
6,600.00	3.78	98.295	6,588.76	-49.48	339.40	-47.97	0.00	0.00	0.00
6,700.00	3.78	98.295	6,688.54	-50.43	345.92	-48.89	0.00	0.00	0.00
6,800.00	3.78	98.295	6,788.32	-51.38	352.44	-49.81	0.00	0.00	0.00
0,000.00	3.70	30.233	0,700.02	-51.50	332.44	-43.01	0.00	0.00	0.00
6,822.97	3.78	98.295	6,811.24	-51.60	353.94	-50.02	0.00	0.00	0.00
Begin 2°/100	0' drop								
6,900.00	2.24	98.295	6,888.16	-52.19	357.94	-50.59	2.00	-2.00	0.00
7,000.00	0.24	98.295	6,988.14	-52.50	360.08	-50.89	2.00	-2.00	0.00
7,011.87	0.00	0.000	7,000.00	-52.50	360.10	-50.89	2.00	-2.00	0.00
Begin vertic		0.000	7,000.00	-02.00	000.10	-00.00	2.00	-2.00	0.00
_		0.000	7 000 44	50.50	200.40	50.00	0.00	0.00	0.00
7,100.00	0.00	0.000	7,088.14	-52.50	360.10	-50.89	0.00	0.00	0.00
7,200.00	0.00	0.000	7,188.14	-52.50	360.10	-50.89	0.00	0.00	0.00
7,300.00	0.00	0.000	7,288.14	-52.50	360.10	-50.89	0.00	0.00	0.00
7,400.00	0.00	0.000	7,388.14	-52.50	360.10	-50.89	0.00	0.00	0.00
			,						
7,500.00	0.00	0.000	7,488.14	-52.50	360.10	-50.89	0.00	0.00	0.00
7,600.00	0.00	0.000	7,588.14	-52.50	360.10	-50.89	0.00	0.00	0.00
7,700.00	0.00	0.000	7,688.14	-52.50	360.10	-50.89	0.00	0.00	0.00
7,800.00	0.00	0.000	7,788.14	-52.50	360.10	-50.89	0.00	0.00	0.00
7,900.00	0.00	0.000	7,888.14	-52.50	360.10	-50.89	0.00	0.00	0.00
8,000.00	0.00	0.000	7,988.14	-52.50	360.10	-50.89	0.00	0.00	0.00
8,100.00	0.00	0.000	8,088.14	-52.50	360.10	-50.89	0.00	0.00	0.00
0.000.00	0.00	0.000	0 400 44	F0 F0	200.40	F0 00	0.00	0.00	0.00
8,200.00	0.00	0.000	8,188.14	-52.50	360.10	-50.89	0.00	0.00	0.00
8,300.00	0.00	0.000	8,288.14	-52.50	360.10	-50.89	0.00	0.00	0.00
8,400.00	0.00	0.000	8,388.14	-52.50	360.10	-50.89	0.00	0.00	0.00
8,500.00	0.00	0.000	8,488.14	-52.50	360.10	-50.89	0.00	0.00	0.00
8,600.00	0.00	0.000	8,588.14	-52.50	360.10	-50.89	0.00	0.00	0.00
8,700.00	0.00	0.000	8,688.14	-52.50	360.10	-50.89	0.00	0.00	0.00
8,800.00	0.00	0.000	8,788.14	-52.50	360.10	-50.89	0.00	0.00	0.00
8,900.00	0.00	0.000	8,888.14	-52.50	360.10	-50.89	0.00	0.00	0.00
8,963.91	0.00	0.000	8,952.04	-52.50	360.10	-50.89	0.00	0.00	0.00
Begin 10°/10									
9,000.00	3.61	0.256	8,988.11	-51.36	360.11	-49.75	10.00	10.00	0.00
,									
9,050.00	8.61	0.256	9,037.81	-46.04	360.13	-44.43	10.00	10.00	0.00
9,100.00	13.61	0.256	9,086.86	-36.41	360.17	-34.80	10.00	10.00	0.00
9,150.00	18.61	0.256	9,134.88	-22.54	360.23	-20.93	10.00	10.00	0.00
9,200.00	23.61	0.256	9,181.51	-4.54	360.31	-2.93	10.00	10.00	0.00
9,250.00	28.61	0.256	9,226.39	17.46	360.41	19.07	10.00	10.00	0.00
	20.01		5,220.03	17.40	500.71		10.00	10.00	0.00
9,300.00	33.61	0.256	9,269.19	43.28	360.53	44.89	10.00	10.00	0.00



DT_Aug2923v16 Database:

Company: Flat Creek Resources, LLC

Project: Eddy County, New Mexico NAD27 NME Site: Jawbone

Well: Jawbone Fed Com LW 21H

Wellbore: Original Hole Design: rev0

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Jawbone Fed Com LW 21H RKB=3385+26.5 @ 3411.50ft RKB=3385+26.5 @ 3411.50ft

esigii.	1640								
Planned Survey									
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Vertical Section	Dogleg Rate	Build Rate	Turn Rate
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	(°/100ft)	(°/100ft)
9,350.00	38.61	0.256	9,309.57	72.74	360.66	74.35	10.00	10.00	0.00
9,400.00	43.61	0.256	9,347.23	105.60	360.81	107.21	10.00	10.00	0.00
9,450.00		0.256	9,381.89	141.62	360.97	143.23	10.00	10.00	
	48.61								0.00
9,500.00	53.61	0.256	9,413.27	180.53	361.14	182.14	10.00	10.00	0.00
9,550.00	58.61	0.256	9,441.14	222.02	361.33	223.63	10.00	10.00	0.00
9,600.00	63.61	0.256	9,465.29	265.78	361.52	267.40	10.00	10.00	0.00
9,650.00	68.61	0.256	9,485.53	311.48	361.72	313.10	10.00	10.00	0.00
9,700.00	73.61	0.256	9,501.71	358.78	361.94	360.39	10.00	10.00	0.00
9,750.00	78.61	0.256	9,513.71	407.30	362.15	408.91	10.00	10.00	0.00
9,800.00	83.61	0.256	9,521.44	456.68	362.37	458.29	10.00	10.00	0.00
9,850.00	88.61	0.256	9,524.83	506.55	362.59	508.16	10.00	10.00	0.00
9,863.90	90.00	0.256	9,525.00	520.45	362.66	522.07	10.00	10.00	0.00
Begin 90.00	° lateral								
9.900.00	90.00	0.256	9,525.00	556.55	362.82	558.16	0.00	0.00	0.00
10,000.00	90.00	0.256	9,525.00	656.55	363.26	658.16	0.00	0.00	0.00
10,000.00		0.230	,	030.33	505.20	030.10	0.00	0.00	0.00
10,100.00	90.00	0.256	9,525.00	756.54	363.71	758.16	0.00	0.00	0.00
10,200.00	90.00	0.256	9,525.00	856.54	364.16	858.16	0.00	0.00	0.00
10,300.00	90.00	0.256	9,525.00	956.54	364.60	958.16	0.00	0.00	0.00
10,400.00	90.00	0.256	9,525.00	1,056.54	365.05	1,058.16	0.00	0.00	0.00
10,500.00	90.00	0.256	9,525.00	1,156.54	365.49	1,158.16	0.00	0.00	0.00
10,600.00	90.00	0.256	9,525.00	1,256.54	365.94	1,258.16	0.00	0.00	0.00
10,700.00	90.00	0.256	9,525.00	1,356.54	366.39	1,358.16	0.00	0.00	0.00
10,800.00	90.00	0.256	9,525.00	1,456.54	366.83	1,458.16	0.00	0.00	0.00
10,900.00	90.00	0.256	9,525.00	1,556.54	367.28	1,558.16	0.00	0.00	0.00
11,000.00	90.00	0.256	9,525.00	1,656.54	367.73	1,658.16	0.00	0.00	0.00
11 100 00	90.00	0.056	0.525.00	1 756 50	260 17	1 750 16	0.00	0.00	0.00
11,100.00		0.256	9,525.00	1,756.53	368.17	1,758.16	0.00		0.00
11,200.00	90.00	0.256	9,525.00	1,856.53	368.62	1,858.16	0.00	0.00	0.00
11,300.00	90.00	0.256	9,525.00	1,956.53	369.06	1,958.16	0.00	0.00	0.00
11,400.00	90.00	0.256	9,525.00	2,056.53	369.51	2,058.16	0.00	0.00	0.00
11,500.00	90.00	0.256	9,525.00	2,156.53	369.96	2,158.16	0.00	0.00	0.00
11,600.00	90.00	0.256	9,525.00	2,256.53	370.40	2,258.16	0.00	0.00	0.00
11,700.00	90.00	0.256	9,525.00	2,356.53	370.85	2,358.16	0.00	0.00	0.00
11,800.00	90.00	0.256	9,525.00	2,456.53	371.30	2,458.16	0.00	0.00	0.00
11,900.00	90.00	0.256	9,525.00	2,556.53	371.74	2,558.16	0.00	0.00	0.00
	90.00	0.256	9,525.00		372.19		0.00	0.00	0.00
12,000.00	90.00	0.230	9,525.00	2,656.53	372.19	2,658.16	0.00	0.00	0.00
12,100.00	90.00	0.256	9,525.00	2,756.52	372.63	2,758.16	0.00	0.00	0.00
12,200.00	90.00	0.256	9,525.00	2,856.52	373.08	2,858.16	0.00	0.00	0.00
12,300.00	90.00	0.256	9,525.00	2,956.52	373.53	2,958.16	0.00	0.00	0.00
12,400.00	90.00	0.256	9,525.00	3,056.52	373.97	3,058.16	0.00	0.00	0.00
12,500.00	90.00	0.256	9,525.00	3,156.52	374.42	3,158.16	0.00	0.00	0.00
12,600.00	90.00	0.256	9,525.00	3,256.52	374.86	3,258.16	0.00	0.00	0.00
12,700.00	90.00	0.256	9,525.00	3,356.52	375.31	3,358.16	0.00	0.00	0.00
12,800.00	90.00	0.256	9,525.00	3,456.52	375.76	3,458.16	0.00	0.00	0.00
12,900.00	90.00	0.256	9,525.00	3,556.52	376.20	3,558.16	0.00	0.00	0.00
13,000.00	90.00	0.256	9,525.00	3,656.52	376.65	3,658.16	0.00	0.00	0.00
	00.00						0.00	0.00	0.00
13,100.00	90.00	0.256	9,525.00	3,756.51	377.10	3,758.16	0.00	0.00	0.00
13,200.00	90.00	0.256	9,525.00	3,856.51	377.54	3,858.16	0.00	0.00	0.00
13,300.00	90.00	0.256	9,525.00	3,956.51	377.99	3,958.16	0.00	0.00	0.00
13,400.00	90.00	0.256	9,525.00	4,056.51	378.43	4,058.16	0.00	0.00	0.00
13,500.00	90.00	0.256	9,525.00	4,156.51	378.88	4,158.16	0.00	0.00	0.00
13,600.00	90.00	0.256	9,525.00	4,256.51	379.33	4,258.16	0.00	0.00	0.00
13,700.00	90.00	0.256	9,525.00	4,356.51	379.33	4,258.16	0.00	0.00	0.00
13,800.00	90.00	0.256	9,525.00	4,456.51	380.22	4,458.16	0.00	0.00	0.00
13,900.00	90.00	0.256	9,525.00	4,556.51	380.66	4,558.16	0.00	0.00	0.00



Well:

Planning Report

Database: DT_Aug2923v16

Company: Flat Creek Resources, LLC

Jawbone Fed Com LW 21H

Project: Eddy County, New Mexico NAD27 NME

Site: Jawbone

Wellbore: Original Hole

Design: rev0

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Jawbone Fed Com LW 21H RKB=3385+26.5 @ 3411.50ft RKB=3385+26.5 @ 3411.50ft

Grid

esigii.	1640								
Planned Survey									
									_
Measured			Vertical			Vertical	Dogleg	Build	Turn
Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Section	Rate	Rate	Rate
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	(°/100ft)	(°/100ft)
14,000.00	90.00	0.256	9,525.00	4,656.51	381.11	4,658.16	0.00	0.00	0.00
14,100.00	90.00	0.256	9,525.00	4,756.51	381.56	4,758.16	0.00	0.00	0.00
14,200.00	90.00	0.256	9,525.00	4,856.50	382.00	4,858.16	0.00	0.00	0.00
14,300.00	90.00	0.256	9,525.00	4,956.50	382.45	4,958.16	0.00	0.00	0.00
14,400.00	90.00	0.256	9,525.00	5,056.50	382.90	5,058.16	0.00	0.00	0.00
14,500.00	90.00	0.256	9,525.00	5,156.50	383.34	5,158.16	0.00	0.00	0.00
14,600.00	90.00	0.256	9,525.00	5,256.50	383.79	5,258.16	0.00	0.00	0.00
14,700.00	90.00	0.256	9,525.00	5,356.50	384.23	5,358.16	0.00	0.00	0.00
14,800.00	90.00	0.256	9,525.00	5,456.50	384.68	5,458.16	0.00	0.00	0.00
14,900.00	90.00	0.256	9,525.00	5,556.50	385.13	5,558.16	0.00	0.00	0.00
15,000.00	90.00	0.256	9,525.00	5,656.50	385.57	5,658.16	0.00	0.00	0.00
15,100.00	90.00	0.256	9,525.00	5,756.50	386.02	5,758.16	0.00	0.00	0.00
15,200.00	90.00	0.256	9,525.00	5,856.49	386.46	5,858.16	0.00	0.00	0.00
15,300.00	90.00	0.256	9,525.00	5,956.49	386.91	5,958.16	0.00	0.00	0.00
15,400.00	90.00	0.256	9,525.00	6,056.49	387.36	6,058.16	0.00	0.00	0.00
15,500.00	90.00	0.256	9,525.00	6,156.49	387.80	6,158.16	0.00	0.00	0.00
15,600.00	90.00	0.256	9,525.00	6,256.49	388.25	6,258.16	0.00	0.00	0.00
15,700.00	90.00	0.256	9,525.00	6,356.49	388.70	6,358.16	0.00	0.00	0.00
15,800.00	90.00	0.256	9,525.00	6,456.49	389.14	6,458.16	0.00	0.00	0.00
15,900.00	90.00	0.256	9,525.00	6,556.49	389.59	6,558.16	0.00	0.00	0.00
16,000.00	90.00	0.256	9,525.00	6,656.49	390.03	6,658.16	0.00	0.00	0.00
16,100.00	90.00	0.256	9,525.00	6,756.49	390.48	6,758.16	0.00	0.00	0.00
16,200.00	90.00	0.256	9,525.00	6,856.48	390.93	6,858.16	0.00	0.00	0.00
16,300.00	90.00	0.256	9,525.00	6,956.48	391.37	6,958.16	0.00	0.00	0.00
16,400.00	90.00	0.256	9,525.00	7,056.48	391.82	7,058.16	0.00	0.00	0.00
16,500.00	90.00	0.256	9,525.00	7,156.48	392.26	7,158.16	0.00	0.00	0.00
16,600.00	90.00	0.256	9,525.00	7,256.48	392.71	7,258.16	0.00	0.00	0.00
16,700.00	90.00	0.256	9,525.00	7,356.48	393.16	7,358.16	0.00	0.00	0.00
16,800.00	90.00	0.256	9,525.00	7,456.48	393.60	7,458.16	0.00	0.00	0.00
16,900.00	90.00	0.256	9,525.00	7,556.48	394.05	7,558.16	0.00	0.00	0.00
17,000.00	90.00	0.256	9,525.00	7,656.48	394.50	7,658.16	0.00	0.00	0.00
17,100.00	90.00	0.256	9,525.00	7,756.48	394.94	7,758.16	0.00	0.00	0.00
17,200.00	90.00	0.256	9,525.00	7,856.47	395.39	7,858.16	0.00	0.00	0.00
17,300.00	90.00	0.256	9,525.00	7,956.47	395.83	7,958.16	0.00	0.00	0.00
17,400.00	90.00	0.256	9,525.00	8,056.47	396.28	8,058.16	0.00	0.00	0.00
17,500.00	90.00	0.256	9,525.00	8,156.47	396.73	8,158.16	0.00	0.00	0.00
17,600.00	90.00	0.256	9,525.00	8,256.47	397.17	8,258.16	0.00	0.00	0.00
17,700.00	90.00	0.256	9,525.00	8,356.47	397.62	8,358.16	0.00	0.00	0.00
17,800.00	90.00	0.256	9,525.00	8,456.47	398.06	8,458.16	0.00	0.00	0.00
17,900.00	90.00	0.256	9,525.00	8,556.47	398.51	8,558.16	0.00	0.00	0.00
18,000.00	90.00	0.256	9,525.00	8,656.47	398.96	8,658.16	0.00	0.00	0.00
18,100.00	90.00	0.256	9,525.00	8,756.47	399.40	8,758.16	0.00	0.00	0.00
18,200.00	90.00	0.256	9,525.00	8,856.46	399.85	8,858.16	0.00	0.00	0.00
18,300.00	90.00	0.256	9,525.00	8,956.46	400.30	8,958.16	0.00	0.00	0.00
18,400.00	90.00	0.256	9,525.00	9,056.46	400.74	9,058.16	0.00	0.00	0.00
18,500.00	90.00	0.256	9,525.00	9,156.46	401.19	9,158.16	0.00	0.00	0.00
18,600.00	90.00	0.256	9,525.00	9,256.46	401.63	9,258.16	0.00	0.00	0.00
18,700.00	90.00	0.256	9,525.00 9,525.00	9,256.46	401.63	9,258.16 9,358.16	0.00	0.00	0.00
18,800.00	90.00	0.256	9,525.00	9,356.46	402.06	9,356.16	0.00	0.00	0.00
18,900.00	90.00	0.256	9,525.00 9,525.00	9,456.46	402.53 402.97	9,458.16	0.00	0.00	0.00
19,000.00	90.00	0.256	9,525.00	9,656.46	402.97	9,658.16	0.00	0.00	0.00
*						,			
19,100.00	90.00	0.256	9,525.00	9,756.46	403.86	9,758.16	0.00	0.00	0.00
19,200.00	90.00	0.256	9,525.00	9,856.45	404.31	9,858.16	0.00	0.00	0.00
19,287.47	90.00	0.256	9,525.00	9,943.92	404.70	9,945.63	0.00	0.00	0.00



Database: DT_Aug2923v16

Company: Flat Creek Resources, LLC

Project: Eddy County, New Mexico NAD27 NME

Site: Jawbone

Well: Jawbone Fed Com LW 21H

Wellbore: Original Hole
Design: rev0

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Jawbone Fed Com LW 21H RKB=3385+26.5 @ 3411.50ft RKB=3385+26.5 @ 3411.50ft

Grid

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)	
PBHL/TD @	19287.47 MD 95	525.00 TVD - 20	" Casing							

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
Jawbone 21H FTP 330 F - plan hits target cent - Point	0.00 er	0.000	8,952.04	-52.50	360.10	419,193.200	522,651.000	32.152457741	-104.260142985
Jawbone 21H LTP 330 F - plan hits target cent - Point	0.00 er	0.000	9,525.00	9,943.92	404.70	429,189.600	522,695.600	32.179937947	-104.259976857

Casing Points							
	Measured Depth (ft)	Vertical Depth (ft)		Name	Casing Diameter (")	Hole Diameter (")	
	19,287.47	9,525.00	20" Casing		20	24	

Measured	Vertical	Local Coor	dinates	
Depth (ft)	Depth (ft)	+N/-S (ft)	+E/-W (ft)	Comment
1,300.00	1,300.00	0.00	0.00	KOP Begin 2°/100' build
1,488.90	1,488.76	-0.90	6.16	Begin 3.78° tangent
6,822.97	6,811.24	-51.60	353.94	Begin 2°/100' drop
7,011.87	7,000.00	-52.50	360.10	Begin vertical hold
8,963.91	8,952.04	-52.50	360.10	Begin 10°/100' build
9,863.90	9,525.00	520.45	362.66	Begin 90.00° lateral
19,287.47	9,525.00	9,943.92	404.70	PBHL/TD @ 19287.47 MD 9525.00 TVD



DT_Aug2923v16 Database:

Company: Flat Creek Resources, LLC

Project:

Eddy County, New Mexico NAD27 NME

Jawbone Site:

Well: Wellbore: Jawbone Fed Com LW 21H

Original Hole Design:

rev0

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Jawbone Fed Com LW 21H RKB=3385+26.5 @ 3411.50ft

RKB=3385+26.5 @ 3411.50ft

Minimum Curvature

Project Eddy County, New Mexico NAD27 NME

Map System: Geo Datum:

US State Plane 1927 (Exact solution) NAD 1927 (NADCON CONUS)

Map Zone: New Mexico East 3001 System Datum:

Mean Sea Level

Site Jawbone

Site Position: From:

Easting: Мар

419,218.600 usft Latitude: 520,115.600 usft Longitude:

32.152532039 -104.268335365

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

Well Jawbone Fed Com LW 21H, Surf loc: 395 FSL 2021 FEL Section 02-T25S-R26E

Northing:

Well Position +N/-S 0.00 ft Northing: 419,245.700 usft Latitude: 32.152602732

522,290.900 usft +E/-W 0.00 ft Easting: Longitude: -104.261306433 0.00 ft Wellhead Elevation: ft Ground Level: 3,385.00 ft **Position Uncertainty**

Grid Convergence:

Original Hole Wellbore

Magnetics Model Name Declination Field Strength Sample Date Dip Angle (°) (°) (nT) IGRF2020 9/8/2023 6.59 59.66 47,148.64948824

Design rev0

Audit Notes:

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

Vertical Section: Depth From (TVD) +N/-S Direction +E/-W (ft) (ft) (ft) (°) 0.00 0.00 0.00 0.256

Plan Survey Tool Program Date

> Depth From Depth To

Tool Name (ft) (ft) Survey (Wellbore) Remarks

19,287.47 rev0 (Original Hole) 0.00

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	
1,300.00	0.00	0.000	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,488.90	3.78	98.295	1,488.76	-0.90	6.16	2.00	2.00	0.00	98.29	
6,822.97	3.78	98.295	6,811.24	-51.60	353.94	0.00	0.00	0.00	0.00	
7,011.87	0.00	0.000	7,000.00	-52.50	360.10	2.00	-2.00	0.00	180.00	
8,963.91	0.00	0.000	8,952.04	-52.50	360.10	0.00	0.00	0.00	0.00	Jawbone 21H FTP 33
9,863.90	90.00	0.256	9,525.00	520.45	362.66	10.00	10.00	0.03	0.26	
19,287.47	90.00	0.256	9,525.00	9,943.92	404.70	0.00	0.00	0.00	0.00	Jawbone 21H LTP 33



Project:

Planning Report - Geographic

Database: DT_Aug2923v16

Company: Flat Creek Resources, LLC

Eddy County, New Mexico NAD27 NME

Site: Jawbone

Well: Jawbone Fed Com LW 21H

Wellbore: Original Hole
Design: rev0

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Jawbone Fed Com LW 21H RKB=3385+26.5 @ 3411.50ft

RKB=3385+26.5 @ 3411.50ft Grid

0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	anned Survey									
100.00	Depth			Depth			Northing	Easting	Latitude	Longitude
200.00 0.00 0.00 0.000 200.00 0.00 0.00	0.00	0.00	0.000	0.00	0.00	0.00	419,245.700	522,290.900	32.152602732	-104.261306433
300.00	100.00	0.00	0.000	100.00	0.00	0.00	419,245.700	522,290.900	32.152602732	-104.261306433
400.00	200.00	0.00	0.000	200.00	0.00	0.00	419,245.700	522,290.900	32.152602732	-104.261306433
500.00	300.00	0.00	0.000	300.00	0.00	0.00	419,245.700		32.152602732	-104.261306433
500.00										-104.261306433
Figure F										-104.261306433
TOO										-104.261306433
800.00 0.00 0.00 0.00 800.00 0.00 0.00										-104.261306433
990.00 0.00 0.00 0.00 90.00 90.00 0.00										-104.26130643
1,000 00										-104.26130643
1,100.00 0.00 0.00 0.000 1,100.00 0.00 0										-104.26130643
1,200.00							,			-104.26130643
1,300.00										-104.26130643
KOP Begin 2*/100* build				,						-104.26130643
1,400.00				1,300.00	0.00	0.00	419,245.700	522,290.900	32.132002732	-104.20130043
1,488.90 3.78 98.295 1,488.76 -0.90 6.16 419,244.802 522,297.060 32.152600252 -104.26′				1 300 08	0.25	1 72	110 245 148	522 202 627	32 152602037	-104.261300854
1,500.00 3,78 98.295 1,499.84 -1.00 6.88 419,244.696 522,297.784 32.152599961 -104.267 1,600.00 3,78 98.295 1,599.62 -1.95 13.40 419,243.746 522,304.304 32.152597335 -104.267 1,700.00 3,78 98.295 1,599.62 -1.95 13.40 419,243.746 522,304.304 32.152597335 -104.267 1,800.00 3,78 98.295 1,799.19 -3.86 26.44 419,241.845 522,317.344 32.152592085 -1.04.267 1,900.00 3,78 98.295 1,898.97 -4.81 32.96 419,240.884 522,323.864 32.152589460 -104.267								,		-104.26128653
1,500,00 3,78 98,295 1,499,84 -1,00 6,88 419,244,696 522,297,784 32,152597355 -104,26* 1,600,00 3,78 98,295 1,599,62 -1,95 13,40 419,243,746 522,304,304 32,152594710 -104,26* 1,800,00 3,78 98,295 1,799,19 -3,86 26,44 419,241,845 522,317,344 32,152589460 -104,26* 1,900,00 3,78 98,295 1,998,75 -5.76 39,48 419,240,894 522,333,364 32,152589460 -104,26* 2,100,00 3,78 98,295 1,998,75 -5.76 39,48 419,239,944 522,333,904 32,1525864210 -104,26* 2,000,00 3,78 98,295 2,998,16 -6.71 46,00 419,238,993 522,336,904 32,1525864210 -104,26* 2,000,00 3,78 98,295 2,998,10 -8.61 59,04 419,238,141 522,349,944 32,152578666 -104,26* 2,500,00 3,78 98,295 2,597,85 <td></td> <td></td> <td>96.293</td> <td>1,400.70</td> <td>-0.90</td> <td>0.10</td> <td>419,244.002</td> <td>322,297.000</td> <td>32.132000232</td> <td>-104.20120000</td>			96.293	1,400.70	-0.90	0.10	419,244.002	322,297.000	32.132000232	-104.20120000
1,600.00 3,78 98.295 1,599.62 -1.95 13.40 419,242.795 522,304.304 32.152597335 -104.26° 1,700.00 3,78 98.295 1,699.40 -2.90 19.92 419,242.795 522,310.824 32.152594710 -104.26° 1,800.00 3,78 98.295 1,799.19 -3.86 26.44 419,241.845 522,317.344 32.152589460 -104.26° 1,900.00 3,78 98.295 1,998.75 -5.76 39.48 419,239.934 522,333.864 32.152586460 -104.26° 2,000.00 3,78 98.295 1,998.75 -5.76 39.48 419,238.993 522,330.804 32.1525864210 -104.26° 2,000.00 3,78 98.295 2,998.54 -6.71 46.00 419,238.993 522,330.904 32.152584210 -104.26° 2,300.00 3,78 98.295 2,298.80 -8.56 65.56 419,236.91 522,349.944 32.152578960 -104.26° 2,400.00 3,78 98.295 2,597.45 <td>_</td> <td>_</td> <td>00 205</td> <td>1 400 94</td> <td>1.00</td> <td>6 00</td> <td>410 244 606</td> <td>522 207 794</td> <td>22 152500061</td> <td>104 26129410</td>	_	_	00 205	1 400 94	1.00	6 00	410 244 606	522 207 794	22 152500061	104 26129410
1,700.00 3,78 98.295 1,699.40 -2.00 19.92 419,242.795 522,310.824 32,152592085 -104.261 1,800.00 3,78 98.295 1,799.19 -3.86 26.44 419,241.845 522,317.344 32,152592085 -104.261 1,900.00 3,78 98.295 1,998.75 -5.76 39.48 419,239.944 522,330.384 32,152586835 -104.261 2,000.00 3,78 98.295 2,998.54 -6.71 46.00 419,238.993 522,336.904 32,152584210 -104.261 2,200.00 3,78 98.295 2,998.54 -6.71 46.00 419,238.092 522,349.944 32,1525841565 -104.261 2,300.00 3,78 98.295 2,397.88 -9.56 65.56 419,238.041 522,349.944 32,152576334 -104.261 2,500.00 3,78 98.295 2,497.67 -10.51 72.08 419,235.191 522,362.984 32,15257309 -104.261 2,500.00 3,78 98.295 2,597.45 <td></td>										
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3,400.00 3.78 98.295 3,395.71 -19.06 130.76 419,226.636 522,421.664 32.152550083 -104.260 3,500.00 3.78 98.295 3,495.49 -20.01 137.28 419,225.685 522,428.184 32.152547458 -104.260 3,600.00 3.78 98.295 3,595.28 -20.97 143.80 419,224.735 522,434.704 32.152542207 -104.260 3,700.00 3.78 98.295 3,695.06 -21.92 150.32 419,223.784 522,441.224 32.152542207 -104.260 3,800.00 3.78 98.295 3,794.84 -22.87 156.84 419,222.833 522,447.744 32.152539582 -104.260 3,900.00 3.78 98.295 3,894.62 -23.82 163.36 419,221.883 522,454.263 32.152536957 -104.260 4,000.00 3.78 98.295 3,994.41 -24.77 169.88 419,221.883 522,460.783 32.152534332 -104.260 4,200.00 3.78 98.295 4,994.19 -25.72 176.40 419,219.982 522,467.303 32.152529081 </td <td>3,200.00</td> <td>3.78</td> <td>98.295</td> <td>3,196.14</td> <td>-17.16</td> <td>117.72</td> <td>419,228.537</td> <td>522,408.624</td> <td>32.152555333</td> <td>-104.26092608</td>	3,200.00	3.78	98.295	3,196.14	-17.16	117.72	419,228.537	522,408.624	32.152555333	-104.26092608
3,500.00 3.78 98.295 3,495.49 -20.01 137.28 419,225.685 522,428.184 32.152547458 -104.266 3,600.00 3.78 98.295 3,595.28 -20.97 143.80 419,224.735 522,434.704 32.152544832 -104.266 3,700.00 3.78 98.295 3,695.06 -21.92 150.32 419,223.784 522,441.224 32.152542207 -104.266 3,800.00 3.78 98.295 3,794.84 -22.87 156.84 419,222.833 522,447.744 32.152539582 -104.266 3,900.00 3.78 98.295 3,894.62 -23.82 163.36 419,221.883 522,454.263 32.152536957 -104.266 4,000.00 3.78 98.295 3,994.41 -24.77 169.88 419,220.932 522,460.783 32.152534332 -104.266 4,200.00 3.78 98.295 4,094.19 -25.72 176.40 419,219.982 522,467.303 32.152531706 -104.266 4,300.00 3.78 98.295 4,293.75 -27.62 189.44 419,218.081 522,480.343 32.152529851 </td <td>3,300.00</td> <td>3.78</td> <td>98.295</td> <td>3,295.93</td> <td>-18.11</td> <td>124.24</td> <td>419,227.586</td> <td>522,415.144</td> <td>32.152552708</td> <td>-104.26090501</td>	3,300.00	3.78	98.295	3,295.93	-18.11	124.24	419,227.586	522,415.144	32.152552708	-104.26090501
3,600.00 3.78 98.295 3,595.28 -20.97 143.80 419,224.735 522,434.704 32.152544832 -104.266 3,700.00 3.78 98.295 3,695.06 -21.92 150.32 419,223.784 522,441.224 32.152542207 -104.266 3,800.00 3.78 98.295 3,794.84 -22.87 156.84 419,222.833 522,447.744 32.152539582 -104.266 3,900.00 3.78 98.295 3,894.62 -23.82 163.36 419,221.883 522,454.263 32.152536957 -104.266 4,000.00 3.78 98.295 3,994.41 -24.77 169.88 419,220.932 522,460.783 32.152534332 -104.266 4,100.00 3.78 98.295 4,094.19 -25.72 176.40 419,219.982 522,467.303 32.152531706 -104.266 4,200.00 3.78 98.295 4,193.97 -26.67 182.92 419,219.031 522,473.823 32.152529081 -104.266 4,400.00 3.78 98.295 4,293.75 -27.62 189.44 419,218.081 522,480.343 32.152529831 </td <td>3,400.00</td> <td>3.78</td> <td>98.295</td> <td>3,395.71</td> <td>-19.06</td> <td>130.76</td> <td>419,226.636</td> <td>522,421.664</td> <td>32.152550083</td> <td>-104.26088394</td>	3,400.00	3.78	98.295	3,395.71	-19.06	130.76	419,226.636	522,421.664	32.152550083	-104.26088394
3,700.00 3.78 98.295 3,695.06 -21.92 150.32 419,223.784 522,441.224 32.152542207 -104.260 3,800.00 3.78 98.295 3,794.84 -22.87 156.84 419,222.833 522,447.744 32.152539582 -104.260 3,900.00 3.78 98.295 3,894.62 -23.82 163.36 419,221.883 522,454.263 32.152536957 -104.260 4,000.00 3.78 98.295 3,994.41 -24.77 169.88 419,220.932 522,460.783 32.152534332 -104.260 4,100.00 3.78 98.295 4,094.19 -25.72 176.40 419,219.982 522,467.303 32.152531706 -104.260 4,200.00 3.78 98.295 4,193.97 -26.67 182.92 419,219.031 522,473.823 32.152529081 -104.260 4,300.00 3.78 98.295 4,293.75 -27.62 189.44 419,218.081 522,480.343 32.152526456 -104.260 4,500.00 3.78 98.295 4,393.54 -28.57 195.96 419,217.130 522,486.863 32.152523831 </td <td>3,500.00</td> <td>3.78</td> <td>98.295</td> <td>3,495.49</td> <td>-20.01</td> <td>137.28</td> <td>419,225.685</td> <td>522,428.184</td> <td>32.152547458</td> <td>-104.26086288</td>	3,500.00	3.78	98.295	3,495.49	-20.01	137.28	419,225.685	522,428.184	32.152547458	-104.26086288
3,700.00 3.78 98.295 3,695.06 -21.92 150.32 419,223.784 522,441.224 32.152542207 -104.260 3,800.00 3.78 98.295 3,794.84 -22.87 156.84 419,222.833 522,447.744 32.152539582 -104.260 3,900.00 3.78 98.295 3,894.62 -23.82 163.36 419,221.883 522,454.263 32.152536957 -104.260 4,000.00 3.78 98.295 3,994.41 -24.77 169.88 419,220.932 522,460.783 32.152534332 -104.260 4,100.00 3.78 98.295 4,094.19 -25.72 176.40 419,219.982 522,467.303 32.152531706 -104.260 4,200.00 3.78 98.295 4,193.97 -26.67 182.92 419,219.031 522,473.823 32.152529081 -104.260 4,300.00 3.78 98.295 4,293.75 -27.62 189.44 419,218.081 522,480.343 32.152526456 -104.260 4,500.00 3.78 98.295 4,393.54 -28.57 195.96 419,217.130 522,486.863 32.152523831 </td <td>3,600.00</td> <td>3.78</td> <td>98.295</td> <td>3,595.28</td> <td>-20.97</td> <td>143.80</td> <td>419,224.735</td> <td>522,434.704</td> <td>32.152544832</td> <td>-104.26084181</td>	3,600.00	3.78	98.295	3,595.28	-20.97	143.80	419,224.735	522,434.704	32.152544832	-104.26084181
3,900.00 3.78 98.295 3,894.62 -23.82 163.36 419,221.883 522,454.263 32.152536957 -104.260 4,000.00 3.78 98.295 3,994.41 -24.77 169.88 419,220.932 522,460.783 32.152534332 -104.260 4,100.00 3.78 98.295 4,094.19 -25.72 176.40 419,219.982 522,467.303 32.152531706 -104.260 4,200.00 3.78 98.295 4,193.97 -26.67 182.92 419,219.031 522,473.823 32.152529081 -104.260 4,300.00 3.78 98.295 4,293.75 -27.62 189.44 419,218.081 522,480.343 32.152526456 -104.260 4,400.00 3.78 98.295 4,393.54 -28.57 195.96 419,217.130 522,486.863 32.152523831 -104.260 4,500.00 3.78 98.295 4,493.32 -29.52 202.48 419,216.180 522,493.383 32.152521205 -104.260 4,600.00 3.78 98.295 4,593.10 -30.47 209.00 419,215.229 522,499.903 32.152518580 </td <td></td> <td></td> <td></td> <td>3,695.06</td> <td>-21.92</td> <td></td> <td></td> <td></td> <td></td> <td>-104.26082075</td>				3,695.06	-21.92					-104.26082075
3,900.00 3.78 98.295 3,894.62 -23.82 163.36 419,221.883 522,454.263 32.152536957 -104.260 4,000.00 3.78 98.295 3,994.41 -24.77 169.88 419,220.932 522,460.783 32.152534332 -104.260 4,100.00 3.78 98.295 4,094.19 -25.72 176.40 419,219.982 522,467.303 32.152531706 -104.260 4,200.00 3.78 98.295 4,193.97 -26.67 182.92 419,219.031 522,473.823 32.152529081 -104.260 4,300.00 3.78 98.295 4,293.75 -27.62 189.44 419,218.081 522,480.343 32.152526456 -104.260 4,400.00 3.78 98.295 4,393.54 -28.57 195.96 419,217.130 522,486.863 32.152523831 -104.260 4,500.00 3.78 98.295 4,493.32 -29.52 202.48 419,216.180 522,493.383 32.152521205 -104.260 4,600.00 3.78 98.295 4,593.10 -30.47 209.00 419,215.229 522,499.903 32.152518580 </td <td>,</td> <td></td> <td></td> <td>,</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-104.26079968</td>	,			,						-104.26079968
4,000.00 3.78 98.295 3,994.41 -24.77 169.88 419,220.932 522,460.783 32.152534332 -104.260 4,100.00 3.78 98.295 4,094.19 -25.72 176.40 419,219.982 522,467.303 32.152531706 -104.260 4,200.00 3.78 98.295 4,193.97 -26.67 182.92 419,219.031 522,473.823 32.152529081 -104.260 4,300.00 3.78 98.295 4,293.75 -27.62 189.44 419,218.081 522,480.343 32.152526456 -104.260 4,400.00 3.78 98.295 4,393.54 -28.57 195.96 419,217.130 522,486.863 32.152523831 -104.260 4,500.00 3.78 98.295 4,493.32 -29.52 202.48 419,216.180 522,493.383 32.152521205 -104.260 4,600.00 3.78 98.295 4,593.10 -30.47 209.00 419,215.229 522,499.903 32.152518580 -104.260 4,700.00 3.78 98.295 4,692.89 -31.42 215.52 419,214.278 522,506.423 32.152513330 </td <td>,</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>,</td> <td></td> <td></td> <td>-104.26077862</td>	,						,			-104.26077862
4,100.00 3.78 98.295 4,094.19 -25.72 176.40 419,219.982 522,467.303 32.152531706 -104.260 4,200.00 3.78 98.295 4,193.97 -26.67 182.92 419,219.031 522,473.823 32.152529081 -104.260 4,300.00 3.78 98.295 4,293.75 -27.62 189.44 419,218.081 522,480.343 32.152526456 -104.260 4,400.00 3.78 98.295 4,393.54 -28.57 195.96 419,217.130 522,486.863 32.152523831 -104.260 4,500.00 3.78 98.295 4,493.32 -29.52 202.48 419,216.180 522,493.383 32.152521205 -104.260 4,600.00 3.78 98.295 4,593.10 -30.47 209.00 419,215.229 522,499.903 32.152518580 -104.260 4,700.00 3.78 98.295 4,692.89 -31.42 215.52 419,214.278 522,506.423 32.152513330 -104.260 4,800.00 3.78 98.295 4,792.67 -32.37 222.04 419,213.328 522,512.943 32.152513330 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-104.26075755</td>										-104.26075755
4,200.00 3.78 98.295 4,193.97 -26.67 182.92 419,219.031 522,473.823 32.152529081 -104.260 4,300.00 3.78 98.295 4,293.75 -27.62 189.44 419,218.081 522,480.343 32.152526456 -104.260 4,400.00 3.78 98.295 4,393.54 -28.57 195.96 419,217.130 522,486.863 32.152523831 -104.260 4,500.00 3.78 98.295 4,493.32 -29.52 202.48 419,216.180 522,493.383 32.152521205 -104.260 4,600.00 3.78 98.295 4,593.10 -30.47 209.00 419,215.229 522,499.903 32.152518580 -104.260 4,700.00 3.78 98.295 4,692.89 -31.42 215.52 419,214.278 522,506.423 32.152513330 -104.260 4,800.00 3.78 98.295 4,792.67 -32.37 222.04 419,213.328 522,512.943 32.152513330 -104.260										-104.26073649
4,300.00 3.78 98.295 4,293.75 -27.62 189.44 419,218.081 522,480.343 32.152526456 -104.260 4,400.00 3.78 98.295 4,393.54 -28.57 195.96 419,217.130 522,486.863 32.152523831 -104.260 4,500.00 3.78 98.295 4,493.32 -29.52 202.48 419,216.180 522,493.383 32.152521205 -104.260 4,600.00 3.78 98.295 4,593.10 -30.47 209.00 419,215.229 522,499.903 32.152518580 -104.260 4,700.00 3.78 98.295 4,692.89 -31.42 215.52 419,214.278 522,506.423 32.152513330 -104.260 4,800.00 3.78 98.295 4,792.67 -32.37 222.04 419,213.328 522,512.943 32.152513330 -104.260				,						-104.26071542
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4,500.00 3.78 98.295 4,493.32 -29.52 202.48 419,216.180 522,493.383 32.152521205 -104.260 4,600.00 3.78 98.295 4,593.10 -30.47 209.00 419,215.229 522,499.903 32.152518580 -104.260 4,700.00 3.78 98.295 4,692.89 -31.42 215.52 419,214.278 522,506.423 32.152515955 -104.260 4,800.00 3.78 98.295 4,792.67 -32.37 222.04 419,213.328 522,512.943 32.152513330 -104.260										-104.26067329
4,600.00 3.78 98.295 4,593.10 -30.47 209.00 419,215.229 522,499.903 32.152518580 -104.260 4,700.00 3.78 98.295 4,692.89 -31.42 215.52 419,214.278 522,506.423 32.152515955 -104.260 4,800.00 3.78 98.295 4,792.67 -32.37 222.04 419,213.328 522,512.943 32.152513330 -104.260										-104.26065223
4,700.00 3.78 98.295 4,692.89 -31.42 215.52 419,214.278 522,506.423 32.152515955 -104.260 4,800.00 3.78 98.295 4,792.67 -32.37 222.04 419,213.328 522,512.943 32.152513330 -104.260										-104.26063116
4,800.00 3.78 98.295 4,792.67 -32.37 222.04 419,213.328 522,512.943 32.152513330 -104.260										-104.26061009
ALMINITED 3.18 ON JOB ALMOYDE 33.37 JUNIO 140 JULIO 140										-104.26058903
										-104.26056796 -104.26054690



Database: DT_Aug2923v16

Company: Flat Creek Resources, LLC

Project: Eddy County, New Mexico NAD27 NME Site: Jawbone

Well: Jawbone Fed Com LW 21H

Wellbore: Original Ho Design: rev0

Original Hole

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Jawbone Fed Com LW 21H RKB=3385+26.5 @ 3411.50ft

RKB=3385+26.5 @ 3411.50ft

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
5,100.00	3.78	98.295	5,092.02	-35.22	241.60	419,210.476	522,532.503	32.152505454	-104.260525838
5,200.00	3.78	98.295	5,191.80	-36.17	248.12	419,209.526	522,539.023	32.152502829	-104.260504772
5,300.00	3.78	98.295	5,291.58	-37.13	254.64	419,208.575	522,545.543	32.152500204	-104.260483707
5,400.00	3.78	98.295	5,391.36	-38.08	261.16	419,207.624	522,552.063	32.152497578	-104.260462642
5,500.00	3.78	98.295	5,491.15	-39.03	267.68	419,206.674	522,558.583	32.152494953	-104.260441576
5,600.00	3.78	98.295	5,590.93	-39.98	274.20	419,205.723	522,565.103	32.152492328	-104.260420511
5,700.00	3.78	98.295	5,690.71	-40.93	280.72	419,204.773	522,571.623	32.152489703	-104.260399446
5,800.00	3.78	98.295	5,790.50	-41.88	287.24	419,203.822	522,578.143	32.152487077	-104.260378380
5,900.00	3.78	98.295	5,890.28	-42.83	293.76	419,202.872	522,584.663	32.152484452	-104.260357315
6,000.00	3.78	98.295	5,990.06	-43.78	300.28	419,201.921	522,591.183	32.152481827	-104.260336250
6,100.00	3.78	98.295	6,089.84	-44.73	306.80	419,200.970	522,597.703	32.152479201	-104.260315184
6,200.00	3.78	98.295	6,189.63	-45.68	313.32	419,200.020	522,604.223	32.152476576	-104.260294119
6,300.00	3.78	98.295	6,289.41	-46.63	319.84	419,199.069	522,610.743	32.152473951	-104.260273054
6,400.00	3.78	98.295	6,389.19	-47.58	326.36	419,198.119	522,617.263	32.152471326	-104.260251988
6,500.00	3.78	98.295	6,488.97	-48.53	332.88	419,197.168	522,623.782	32.152468700	-104.260230923
6,600.00	3.78	98.295	6,588.76	-49.48	339.40	419,196.218	522,630.302	32.152466075	-104.260209858
6,700.00	3.78	98.295	6,688.54	-50.43	345.92	419,195.267	522,636.822	32.152463450	-104.260188792
6,800.00	3.78	98.295	6,788.32	-51.38	352.44	419,194.317	522,643.342	32.152460824	-104.260167727
6,822.97	3.78	98.295	6,811.24	-51.60	353.94	419,194.098	522,644.840	32.152460221	-104.260162888
Begin 2°/	100' drop								
6,900.00	2.24	98.295	6,888.16	-52.19	357.94	419,193.515	522,648.839	32.152458611	-104.260149967
7,000.00	0.24	98.295	6,988.14	-52.50	360.08	419,193.204	522,650.976	32.152457751	-104.260143064
7,011.87	0.00	0.000	7,000.00	-52.50	360.10	419,193.200	522,651.000	32.152457741	-104.260142985
Begin ve	rtical hold								
7,100.00	0.00	0.000	7,088.14	-52.50	360.10	419,193.200	522,651.000	32.152457741	-104.260142985
7,200.00	0.00	0.000	7,188.14	-52.50	360.10	419,193.200	522,651.000	32.152457741	-104.260142985
7,300.00	0.00	0.000	7,288.14	-52.50	360.10	419,193.200	522,651.000	32.152457741	-104.260142985
7,400.00	0.00	0.000	7,388.14	-52.50	360.10	419,193.200	522,651.000	32.152457741	-104.260142985
7,500.00	0.00	0.000	7,488.14	-52.50	360.10	419,193.200	522,651.000	32.152457741	-104.260142985
7,600.00	0.00	0.000	7,588.14	-52.50	360.10	419,193.200	522,651.000	32.152457741	-104.260142985
7,700.00	0.00	0.000	7,688.14	-52.50	360.10	419,193.200	522,651.000	32.152457741	-104.260142985
7,800.00	0.00	0.000	7,788.14	-52.50	360.10	419,193.200	522,651.000	32.152457741	-104.260142985
7,900.00	0.00	0.000	7,888.14	-52.50	360.10	419,193.200	522,651.000	32.152457741	-104.260142985
8,000.00	0.00	0.000	7,988.14	-52.50	360.10	419,193.200	522,651.000	32.152457741	-104.260142985
8,100.00	0.00	0.000	8,088.14	-52.50	360.10	419,193.200	522,651.000	32.152457741	-104.260142985
8,200.00	0.00	0.000	8,188.14	-52.50	360.10	419,193.200	522,651.000	32.152457741	-104.260142985
8,300.00	0.00	0.000	8,288.14	-52.50	360.10	419,193.200	522,651.000	32.152457741	-104.260142985
8,400.00	0.00	0.000	8,388.14	-52.50	360.10	419,193.200	522,651.000	32.152457741	-104.260142985
8,500.00	0.00	0.000	8,488.14	-52.50	360.10	419,193.200	522,651.000	32.152457741	-104.260142985
8,600.00	0.00	0.000	8,588.14	-52.50	360.10	419,193.200	522,651.000	32.152457741	-104.260142985
8,700.00	0.00	0.000	8,688.14	-52.50	360.10	419,193.200	522,651.000	32.152457741	-104.260142985
8,800.00	0.00	0.000	8,788.14	-52.50	360.10	419,193.200	522,651.000	32.152457741	-104.260142985
8,900.00	0.00	0.000	8,888.14	-52.50	360.10	419,193.200	522,651.000	32.152457741	-104.260142985
8,963.91	0.00	0.000	8,952.04	-52.50	360.10	419,193.200	522,651.000	32.152457741	-104.260142985
_	°/100' build	0.050	0.000.44	F4 00	200.44	440 404 227	E00 0E4 00E	20.450400005	404 0004 40007
9,000.00	3.61	0.256	8,988.11	-51.36	360.11	419,194.337	522,651.005	32.152460865	-104.260142967
9,050.00	8.61	0.256	9,037.81	-46.04	360.13	419,199.656	522,651.029	32.152475489	-104.260142878
9,100.00	13.61	0.256	9,086.86	-36.41	360.17	419,209.287	522,651.072	32.152501965	-104.260142718
9,150.00 9,200.00	18.61 23.61	0.256 0.256	9,134.88	-22.54 -4.54	360.23 360.31	419,223.157	522,651.134 522,651.214	32.152540092 32.152589579	-104.260142488 -104.260142189
9,250.00	28.61	0.256	9,181.51 9,226.39		360.41	419,241.158 419,263.155	522,651.312	32.152650049	-104.260142169
9,300.00	33.61	0.256	9,269.19	17.46 43.28	360.41	419,288.981	522,651.428	32.152721043	-104.260141394
9,350.00	38.61	0.256	9,269.19	43.26 72.74	360.55	419,318.437	522,651.559	32.152721043	-104.260141394
9,400.00	43.61	0.256	9,347.23	105.60	360.81	419,351.302	522,651.706	32.152892365	-104.260140359
5,400.00	70.01	3.200	0,047.20	100.00	000.01	110,001.002	022,001.700	02.102002000	101.200140009



Database: DT_Aug2923v16

Company: Flat Creek Resources, LLC

Project: Eddy County, New Mexico NAD27 NME

Site: Jawbone

Well: Jawbone Fed Com LW 21H

Wellbore: Original Hole
Design: rev0

bone North Refer

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Well Jawbone Fed Com LW 21H RKB=3385+26.5 @ 3411.50ft RKB=3385+26.5 @ 3411.50ft

Planned Survey	,								
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
9,450.00	48.61	0.256	9,381.89	141.62	360.97	419,387.323	522,651.866	32.152991388	-104.260139761
9,500.00	53.61	0.256	9,413.27	180.53	361.14	419,426.228	522,652.040	32.153098338	-104.260139114
9,550.00	58.61	0.256	9,441.14	222.02	361.33	419,467.719	522,652.225	32.153212399	-104.260138425
9,600.00	63.61	0.256	9,465.29	265.78	361.52	419,511.482	522,652.420	32.153332703	-104.260137698
9,650.00	68.61	0.256	9,485.53	311.48	361.72	419,557.183	522,652.624	32.153458336	-104.260136939
9,700.00	73.61	0.256	9,501.71	358.78	361.94	419,604.474	522,652.835	32.153588341	-104.260136153
9,750.00	78.61	0.256	9,513.71	407.30	362.15	419,652.996	522,653.052	32.153721728	-104.260135347
9,800.00	83.61	0.256	9,521.44	456.68	362.37	419,702.379	522,653.272	32.153857483	-104.260134526
9,850.00	88.61	0.256	9,524.83	506.55	362.59	419,752.248	522,653.494	32.153994572	-104.260133698
9,863.90	90.00	0.256	9,525.00	520.45	362.66	419,766.151	522,653.556	32.154032792	-104.260133467
_	0.00° lateral	0.050	0.505.00	550.55	000.00	440 000 040	500 050 747	00.454400047	404 000400007
9,900.00	90.00	0.256	9,525.00	556.55	362.82	419,802.246	522,653.717	32.154132017	-104.260132867
10,000.00	90.00	0.256	9,525.00	656.55	363.26	419,902.244	522,654.164	32.154406915	-104.260131206
10,100.00	90.00	0.256	9,525.00	756.54	363.71	420,002.243	522,654.610	32.154681814 32.154956712	-104.260129544
10,200.00 10,300.00	90.00 90.00	0.256 0.256	9,525.00 9,525.00	856.54 956.54	364.16 364.60	420,102.242 420,202.241	522,655.056 522,655.502	32.154956712	-104.260127883 -104.260126222
10,400.00	90.00	0.256	9,525.00	1,056.54	365.05	420,302.240	522,655.948	32.155506508	-104.260126222
10,500.00	90.00	0.256	9,525.00	1,156.54	365.49	420,402.238	522,656.394	32.155781407	-104.260122899
10,600.00	90.00	0.256	9,525.00	1,256.54	365.94	420.502.237	522,656.841	32.156056305	-104.260121237
10,700.00	90.00	0.256	9,525.00	1,356.54	366.39	420,602.236	522,657.287	32.156331203	-104.260119576
10,800.00	90.00	0.256	9,525.00	1,456.54	366.83	420,702.235	522,657.733	32.156606101	-104.260117915
10,900.00	90.00	0.256	9,525.00	1,556.54	367.28	420,802.234	522,658.179	32.156880999	-104.260116253
11,000.00	90.00	0.256	9,525.00	1,656.54	367.73	420,902.232	522,658.625	32.157155897	-104.260114592
11,100.00	90.00	0.256	9,525.00	1,756.53	368.17	421,002.231	522,659.071	32.157430796	-104.260112930
11,200.00	90.00	0.256	9,525.00	1,856.53	368.62	421,102.230	522,659.518	32.157705694	-104.260111269
11,300.00	90.00	0.256	9,525.00	1,956.53	369.06	421,202.229	522,659.964	32.157980592	-104.260109607
11,400.00	90.00	0.256	9,525.00	2,056.53	369.51	421,302.228	522,660.410	32.158255490	-104.260107946
11,500.00	90.00	0.256	9,525.00	2,156.53	369.96	421,402.226	522,660.856	32.158530387	-104.260106284
11,600.00	90.00	0.256	9,525.00	2,256.53	370.40	421,502.225	522,661.302	32.158805285	-104.260104623
11,700.00	90.00	0.256	9,525.00	2,356.53	370.85	421,602.224	522,661.748	32.159080183	-104.260102961
11,800.00	90.00	0.256	9,525.00	2,456.53	371.30	421,702.223	522,662.194	32.159355081	-104.260101299
11,900.00	90.00	0.256	9,525.00	2,556.53	371.74	421,802.222	522,662.641	32.159629979	-104.260099638
12,000.00	90.00	0.256	9,525.00	2,656.53	372.19	421,902.220	522,663.087	32.159904877	-104.260097976
12,100.00	90.00	0.256	9,525.00	2,756.52	372.63	422,002.219	522,663.533	32.160179775	-104.260096315
12,200.00	90.00	0.256	9,525.00	2,856.52	373.08	422,102.218	522,663.979	32.160454673	-104.260094653
12,300.00	90.00	0.256	9,525.00	2,956.52	373.53	422,202.217	522,664.425	32.160729571	-104.260092991
12,400.00	90.00	0.256	9,525.00	3,056.52	373.97	422,302.216	522,664.871	32.161004469	-104.260091330
12,500.00	90.00	0.256	9,525.00	3,156.52	374.42	422,402.214	522,665.318	32.161279367	-104.260089668
12,600.00 12,700.00	90.00 90.00	0.256 0.256	9,525.00 9,525.00	3,256.52	374.86 375.31	422,502.213 422,602.212	522,665.764	32.161554265	-104.260088006 -104.260086345
12,700.00	90.00	0.256	9,525.00 9,525.00	3,356.52 3,456.52	375.31	422,602.212	522,666.210 522,666.656	32.161829163 32.162104061	-104.260084683
12,800.00	90.00	0.256	9,525.00	3,556.52	376.20	422,802.211	522,667.102	32.162378959	-104.260083021
13,000.00	90.00	0.256	9,525.00	3,656.52	376.20	422,902.208	522,667.548	32.162653857	-104.260081360
13,100.00	90.00	0.256	9,525.00	3,756.51	377.10	423,002.207	522,667.994	32.162928755	-104.260079698
13,200.00	90.00	0.256	9,525.00	3,856.51	377.54	423,102.206	522,668.441	32.163203653	-104.260078036
13,300.00	90.00	0.256	9,525.00	3,956.51	377.99	423,202.205	522,668.887	32.163478551	-104.260076374
13,400.00	90.00	0.256	9,525.00	4,056.51	378.43	423,302.204	522,669.333	32.163753448	-104.260074713
13,500.00	90.00	0.256	9,525.00	4,156.51	378.88	423,402.202	522,669.779	32.164028346	-104.260073051
13,600.00	90.00	0.256	9,525.00	4,256.51	379.33	423,502.201	522,670.225	32.164303244	-104.260071389
13,700.00	90.00	0.256	9,525.00	4,356.51	379.77	423,602.200	522,670.671	32.164578142	-104.260069727
13,800.00	90.00	0.256	9,525.00	4,456.51	380.22	423,702.199	522,671.118	32.164853040	-104.260068066
13,900.00	90.00	0.256	9,525.00	4,556.51	380.66	423,802.198	522,671.564	32.165127938	-104.260066404
14,000.00	90.00	0.256	9,525.00	4,656.51	381.11	423,902.196	522,672.010	32.165402835	-104.260064742
14,100.00	90.00	0.256	9,525.00	4,756.51	381.56	424,002.195	522,672.456	32.165677733	-104.260063080



MD Reference:

North Reference:

Database: DT_Aug2923v16

Company: Flat Creek Resources, LLC

Project: Eddy County, New Mexico NAD27 NME Site: Jawbone

Well: Jawbone Fed Com LW 21H

Wellbore: Original Hole

one Fed Com LW 21H Survey Calculation Method:

Local Co-ordinate Reference:Well Jawbone Fed Com LW 21HTVD Reference:RKB=3385+26.5 @ 3411.50ft

RKB=3385+26.5 @ 3411.50ft

Design:	rev0								
Planned Survey									
Maria			Mantla			Mari			
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Map Northing	Map Easting		
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(usft)	(usft)	Latitude	Longitude
14,200.00	90.00	0.256	9,525.00	4,856.50	382.00	424,102.194	522,672.902	32.165952631	-104.260061418
14,300.00	90.00	0.256	9,525.00	4,956.50	382.45	424,202.193	522,673.348	32.166227529	-104.260059756
14,400.00	90.00	0.256	9,525.00	5,056.50	382.90	424,302.192	522,673.794	32.166502426	-104.260058095
14,500.00	90.00	0.256	9,525.00	5,156.50	383.34	424,402.190	522,674.241	32.166777324	-104.260056433
14,600.00	90.00	0.256	9,525.00	5,256.50	383.79	424,502.189	522,674.687	32.167052222	-104.260054771
14,700.00	90.00	0.256	9,525.00	5,356.50	384.23	424,602.188	522,675.133	32.167327119	-104.260053109
14,800.00	90.00	0.256	9,525.00	5,456.50	384.68	424,702.187	522,675.579	32.167602017	-104.260051447
14,900.00	90.00	0.256	9,525.00	5,556.50	385.13	424,802.186	522,676.025	32.167876915	-104.260049785
15,000.00	90.00	0.256	9,525.00	5,656.50	385.57	424,902.184	522,676.471	32.168151812	-104.260048123
15,100.00 15,200.00	90.00 90.00	0.256 0.256	9,525.00 9,525.00	5,756.50 5,856.49	386.02 386.46	425,002.183 425,102.182	522,676.918 522,677.364	32.168426710 32.168701608	-104.260046461 -104.260044799
15,300.00	90.00	0.256	9,525.00	5,956.49	386.91	425,702.181	522,677.810	32.168976505	-104.260044799
15,400.00	90.00	0.256	9,525.00	6,056.49	387.36	425,302.180	522,678.256	32.169251403	-104.260043137
15,500.00	90.00	0.256	9,525.00	6,156.49	387.80	425,402.178	522,678.702	32.169526301	-104.260039813
15,600.00	90.00	0.256	9,525.00	6,256.49	388.25	425,502.177	522,679.148	32.169801198	-104.260038151
15,700.00	90.00	0.256	9,525.00	6,356.49	388.70	425,602.176	522,679.595	32.170076096	-104.260036489
15,800.00	90.00	0.256	9,525.00	6,456.49	389.14	425,702.175	522,680.041	32.170350993	-104.260034827
15,900.00	90.00	0.256	9,525.00	6,556.49	389.59	425,802.174	522,680.487	32.170625891	-104.260033165
16,000.00	90.00	0.256	9,525.00	6,656.49	390.03	425,902.172	522,680.933	32.170900788	-104.260031503
16,100.00	90.00	0.256	9,525.00	6,756.49	390.48	426,002.171	522,681.379	32.171175686	-104.260029841
16,200.00	90.00	0.256	9,525.00	6,856.48	390.93	426,102.170	522,681.825	32.171450584	-104.260028179
16,300.00	90.00	0.256	9,525.00	6,956.48	391.37	426,202.169	522,682.271	32.171725481	-104.260026517
16,400.00	90.00	0.256	9,525.00	7,056.48	391.82	426,302.168	522,682.718	32.172000379	-104.260024855
16,500.00	90.00	0.256	9,525.00	7,156.48	392.26	426,402.166	522,683.164	32.172275276	-104.260023193
16,600.00	90.00	0.256	9,525.00	7,256.48	392.71	426,502.165	522,683.610	32.172550173	-104.260021530
16,700.00	90.00	0.256	9,525.00	7,356.48	393.16	426,602.164	522,684.056	32.172825071	-104.260019868
16,800.00	90.00	0.256	9,525.00	7,456.48	393.60	426,702.163	522,684.502	32.173099968	-104.260018206
16,900.00	90.00	0.256	9,525.00	7,556.48	394.05	426,802.162	522,684.948	32.173374866	-104.260016544
17,000.00	90.00	0.256	9,525.00	7,656.48	394.50	426,902.160	522,685.395	32.173649763	-104.260014882
17,100.00	90.00	0.256	9,525.00	7,756.48	394.94	427,002.159	522,685.841	32.173924661	-104.260013220
17,200.00	90.00	0.256	9,525.00	7,856.47	395.39	427,102.158	522,686.287	32.174199558	-104.260011557
17,300.00 17,400.00	90.00	0.256	9,525.00	7,956.47	395.83	427,202.157	522,686.733 522,687.179	32.174474455	-104.260009895
17,500.00	90.00 90.00	0.256 0.256	9,525.00 9,525.00	8,056.47 8,156.47	396.28 396.73	427,302.156 427,402.154	522,687.625	32.174749353 32.175024250	-104.260008233 -104.260006571
17,600.00	90.00	0.256	9,525.00	8,256.47	390.73	427,502.153	522,688.071	32.175299147	-104.260000371
17,700.00	90.00	0.256	9,525.00	8,356.47	397.62	427,602.152	522,688.518	32.175574045	-104.260003246
17,800.00	90.00	0.256	9,525.00	8,456.47	398.06	427,702.151	522,688.964	32.175848942	-104.260001584
17,900.00	90.00	0.256	9,525.00	8,556.47	398.51	427,802.150	522,689.410	32.176123839	-104.259999922
18,000.00	90.00	0.256	9,525.00	8,656.47	398.96	427,902.148	522,689.856	32.176398737	-104.259998259
18,100.00	90.00	0.256	9,525.00	8,756.47	399.40	428,002.147	522,690.302	32.176673634	-104.259996597
18,200.00	90.00	0.256	9,525.00	8,856.46	399.85	428,102.146	522,690.748	32.176948531	-104.259994935
18,300.00	90.00	0.256	9,525.00	8,956.46	400.30	428,202.145	522,691.195	32.177223429	-104.259993272
18,400.00	90.00	0.256	9,525.00	9,056.46	400.74	428,302.144	522,691.641	32.177498326	-104.259991610
18,500.00	90.00	0.256	9,525.00	9,156.46	401.19	428,402.142	522,692.087	32.177773223	-104.259989948
18,600.00	90.00	0.256	9,525.00	9,256.46	401.63	428,502.141	522,692.533	32.178048120	-104.259988285
18,700.00	90.00	0.256	9,525.00	9,356.46	402.08	428,602.140	522,692.979	32.178323018	-104.259986623
18,800.00	90.00	0.256	9,525.00	9,456.46	402.53	428,702.139	522,693.425	32.178597915	-104.259984961
18,900.00	90.00	0.256	9,525.00	9,556.46	402.97	428,802.138	522,693.871	32.178872812	-104.259983298
19,000.00	90.00	0.256	9,525.00	9,656.46	403.42	428,902.136	522,694.318	32.179147709	-104.259981636
19,100.00	90.00	0.256	9,525.00	9,756.46	403.86	429,002.135	522,694.764	32.179422606	-104.259979973
19,200.00	90.00	0.256	9,525.00	9,856.45	404.31	429,102.134	522,695.210	32.179697503	-104.259978311
19,287.47	90.00	0.256	9,525.00	9,943.92	404.70	429,189.600	522,695.600	32.179937947	-104.259976857
PBHL/TD	0 @ 19287.47	MD 9525.00 T	VD - 20" Casin	ıg					



Database: DT_Aug2923v16

Company: Flat Creek Resources, LLC

rev0

Project:

Well:

Eddy County, New Mexico NAD27 NME

Jawbone Fed Com LW 21H

Original Hole

Site: Jawbone

Wellbore: Design: 2923v16 Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Jawbone Fed Com LW 21H RKB=3385+26.5 @ 3411.50ft

RKB=3385+26.5 @ 3411.50ft

Grid

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
Jawbone 21H FTP 330 F - plan hits target cent - Point	0.00 er	0.000	8,952.04	-52.50	360.10	419,193.200	522,651.000	32.152457741	-104.260142985
Jawbone 21H LTP 330 F - plan hits target cent - Point	0.00 er	0.000	9,525.00	9,943.92	404.70	429,189.600	522,695.600	32.179937947	-104.259976857

Casing I	Points							
		Measured	Vertical			Casing	Hole	
		Depth (ft)	Depth (ft)		Name	Diameter (")	Diameter (")	
		1.7	ν.,		Name	()	()	
		19,287.47	9,525.00	20" Casing		20	24	

Plan Annotations				
Measured	Vertical	Local Coord	dinates	
Depth (ft)	Depth (ft)	+N/-S (ft)	+E/-W (ft)	Comment
1,300.00	1,300.00	0.00	0.00	KOP Begin 2°/100' build
1,488.90	1,488.76	-0.90	6.16	Begin 3.78° tangent
6,822.97	6,811.24	-51.60	353.94	Begin 2°/100' drop
7,011.87	7,000.00	-52.50	360.10	Begin vertical hold
8,963.91	8,952.04	-52.50	360.10	Begin 10°/100' build
9,863.90	9,525.00	520.45	362.66	Begin 90.00° lateral
19,287.47	9,525.00	9,943.92	404.70	PBHL/TD @ 19287.47 MD 9525.00 TVD

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: | Flat Creek Resources LLC

LEASE NO.: | NMNM0441951

LOCATION: Section 2, T.25 S., R.26 E., NMPM COUNTY:

Eddy County, New Mexico

WELL NAME & NO.: | Jawbone Fed Com LW 20H

SURFACE HOLE FOOTAGE: 394'/S & 1991'/E **BOTTOM HOLE FOOTAGE** 330'/N & 1005'/E **ATS/API ID: ATS-24-276**

APD ID: 10400095550

Sundry ID: N/a

WELL NAME & NO.: Jawbone Fed Com LW 21H

SURFACE HOLE FOOTAGE: 395'/S & 2021'/E **BOTTOM HOLE FOOTAGE** 330'/N & 1660'/E

ATS/API ID: ATS-24-277 APD ID: 10400095552

Sundry ID: N/a

WELL NAME & NO.: | Jawbone Fed Com LW 22H

SURFACE HOLE FOOTAGE: 396'/S & 2050'/E **BOTTOM HOLE FOOTAGE** 330'/N & 2264'/E

ATS/API ID: ATS-24-302 APD ID: 10400095659

Sundry ID: N/a

COA

H2S	Yes ▼		
Potash	None		
Cave/Karst Potential	High ▼		
Cave/Karst	☐ Critical		
Potential			
Variance	■ None	Flex Hose	C Other
Wellhead	Conventional and Multibov	/I <u>▼</u>	
Other	□4 String	Capitan Reef	□WIPP
		None	
Other	Pilot Hole	☐ Open Annulus	
	None 🔻		
Cementing	Contingency Squeeze	Echo-Meter	Primary Cement
	None ▼	None -	Squeeze
	_		None -
Special	□ Water	☑ COM	□ Unit
Requirements	Disposal/Injection		
Special	☐ Batch Sundry		
Requirements			
Special	☐ Break Testing	□ Offline	□ Casing
Requirements		Cementing	Clearance
Variance			

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H2S) Drilling Plan shall be activated 500 feet prior to drilling into the **Delaware** formation. As a result, the Hydrogen Sulfide area must meet **43 CFR part 3170 Subpart 3176** requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

B. CASING

- 1. The 13-3/8 inch surface casing shall be set at approximately 650 feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite and above the salt when present, and below usable fresh water) and cemented to the surface. The surface hole shall be 17 1/2 inch in diameter.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of

- six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
- b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8** hours or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
- d. If cement falls back, remedial cementing will be done prior to drilling out that string.

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

- 2. The minimum required fill of cement behind the 9-5/8 inch intermediate casing is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.
 - ❖ In <u>High 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 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 **3000 (3M)** psi.

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

Option 2:

Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the 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 43 CFR 3172.6(b)(9) must be followed.

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

- The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- The operator will submit an as-drilled survey well plat of the well completion, but are not limited to, those specified in 43 CFR part 3170 Subpart 3171
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

GENERAL REQUIREMENTS

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

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)

☑ Eddy County

EMAIL or call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,

BLM_NM_CFO_DrillingNotifications@BLM.GOV (575) 361-2822

- 1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per **43** CFR part **3170** Subpart **3172** as soon as 2nd Rig is rigged up on well.
- 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
- 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 when present.
- A. CASING

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

B. PRESSURE CONTROL

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in 43 CFR part 3170 Subpart 3172 and API STD 53 Sec. 5.3.
- 2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
- 3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
- 4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test
 - d. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.
 - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- 5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including

- lead cement), whichever is greater. However, if the float does not hold, cutoff cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
- b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)
- c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to 43 CFR part 3170 Subpart 3172 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for 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 43 CFR part 3170 Subpart 3172.
- C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

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

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

Long Vo (LVO) 3/7/2024

Hydrogen Sulfide Plan Summary

- A. All personnel shall receive proper H2S training in accordance with Onshore Order III.C.3.a.
- B. Briefing Area: two perpendicular areas will be designated by signs and readily accessible.
- C. Required Emergency Equipment:
 - Well control equipment
 - a. Flare line 150' from wellhead to be ignited by flare gun.
 - b. Choke manifold with a remotely operated choke.
 - c. Mud/gas separator
 - Protective equipment for essential personnel.

Breathing apparatus:

- a. Rescue Packs (SCBA) 1 unit shall be placed at each breathing area, 2 shall be stored in the safety trailer.
- b. Work/Escape packs —4 packs shall be stored on the rig floor th sufficient air hose not to restrict work activity.
- Emergency Escape Packs —4 packs shall be stored in the doghouse for emergency evacuation.

Auxiliary Rescue Equipment:

- a. Stretcher
- b. Two OSHA full body harness
- c. 100 ft 5/8 inch OSHA approved rope
- d. 1-20# class ABC fire extinguisher
- H2S detection and monitoring equipment:

The stationary detector with three sensors will be placed in the upper dog house if equipped, set to visually alarm @ 10 ppm and audible @ 14 ppm. Calibrate a minimum of every 30 days or as needed. The sensors will be placed in the following places: Rig floor / Bell nipple / End of flow line or where well bore fluid is being discharged.

(Gas sample tubes will be stored in the safety trailer)

- Visual warning systems.
 - a. One color code condition sign will be placed at the entrance to the site reflecting the possible conditions at the site.
 - b. A colored condition flag will be on display, reflecting the current condition at the site at the time.
 - c. Two wind socks will be placed in strategic locations, visible from all angles.



■ Mud program:

The mud program has been designed to minimize the volume of H2S circulated to surface. The operator will have the necessary mud products to minimize hazards while drilling in H2S bearing zones.

■ Metallurgy:

All drill strings, casings, tubing, wellhead, blowout preventer, drilling spool, kill lines, choke manifold and lines, and valves shall be suitable for H2S service.

■ Communication:

Communication will be via cell phones and land lines where available.

Company Personnel to be Notified

Rodney Littleton, Vice President of Operations Office: (817) 310-8578

Mobile: (972) 672-4461

Local & County Agencies

Whites City Fire Department	911 or (575) 746-5000
Malaga Fire Department	911 or (575) 745-2311
Carlsbad Fire Department	911 or (575) 885-3125
Eddy County Sheriff (Carlsbad)	911 (575) 887-7551

Eddy County Emergency Management (Carlsbad) (575) 887-9511

Carlsbad Medical Center Hospital (575) 887-4100

Eddy County South Road Department (Carlsbad) (575) 885-4835

State Agencies

NM State Police (Carlsbad)	(575) 885-3138
NM Oil Conservation (Artesia)	(575) 748-1283
NM Oil Conservation (Santa Fe)	(505) 476-3440
NM Dept. of Transportation (Roswell)	(575) 637-7201



Federal Agencies

BLM Carlsbad Field Office	(575) 234-5972
National Response Center	(800) 424-8802
US EPA Region 6 (Dallas)	(800) 887-6063
(214) 665-6444	

Residents within 2 miles

No

Air Evacuation

Med Flight Air Ambulance (Albuquerque)	(800) 842-4431
Lifeguard (Albuquerque)	(888) 866-7256

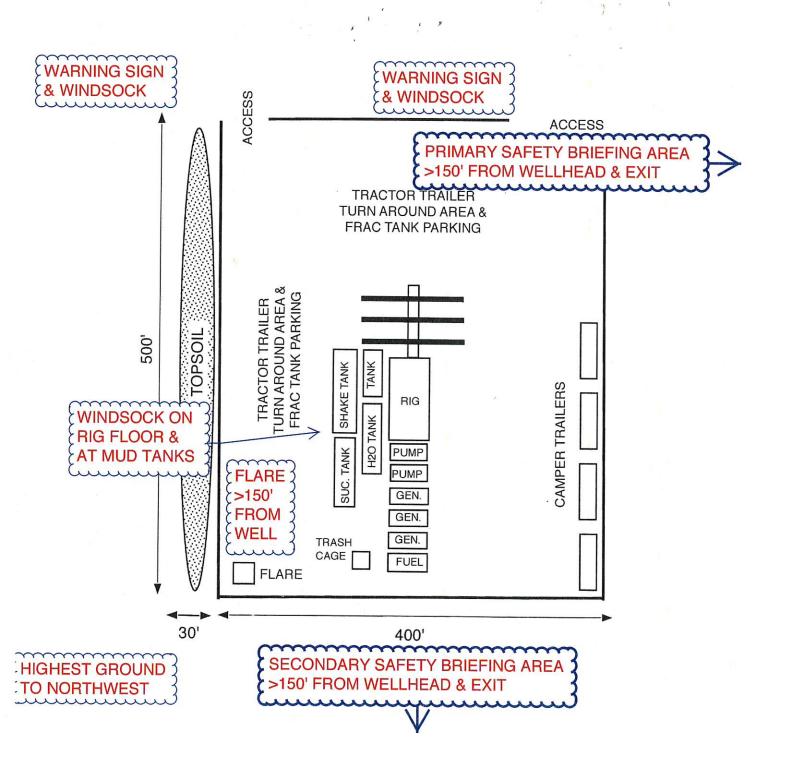
Veterinarians

Desert Willow Veterinary Services (Carlsbad)	(575) 885-3399
Animal Care Center (Carlsbad)	(575) 885-5352

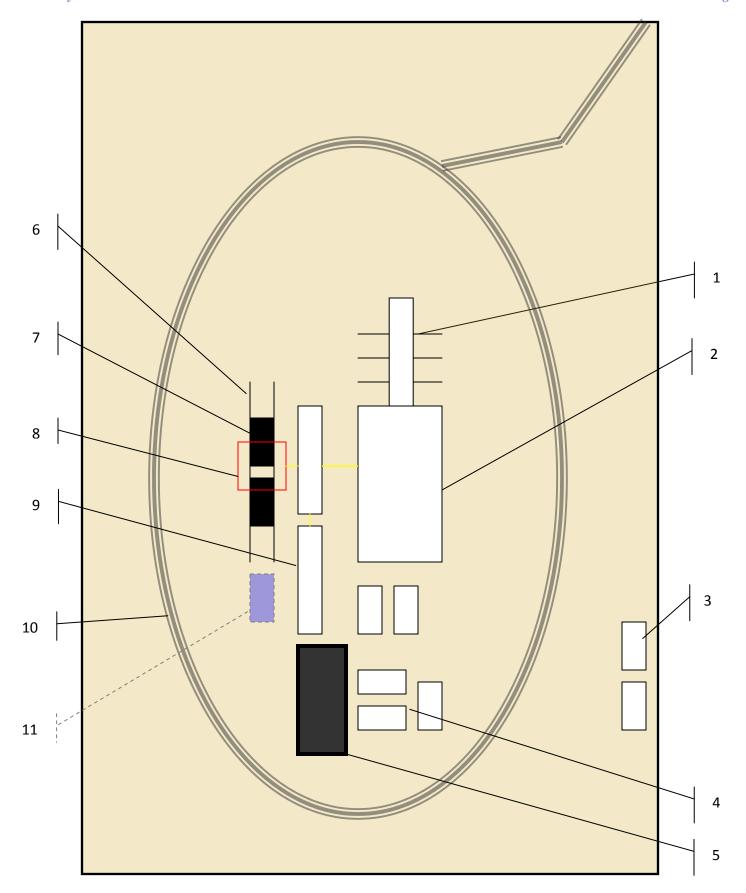












Schematic Closed Loop Drilling Rig*

- 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

37Verano Loop, Santa Fe, New Mexico 87508 (505) 466-8120 Released to Imaging: 5/31/2024 2:44:18 PM



Closed Loop Drilling System: Mud tanks to right (1)

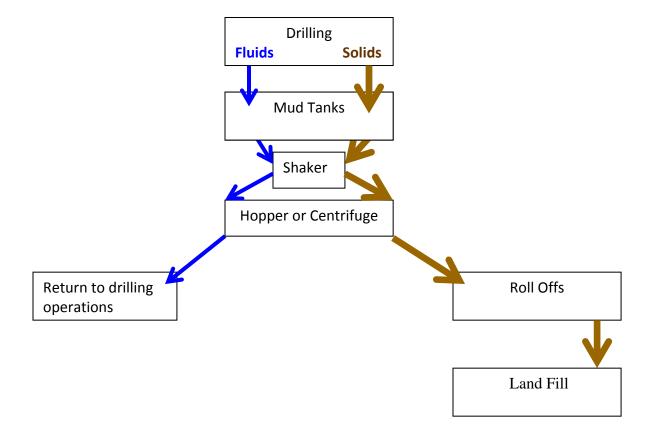
Hopper in air to settle out solids (2)

Water return pipe (3)

Shaker between hopper and mud tanks (4)

Roll offs on skids (5)

Flow Chart for Drilling Fluids and Solids



Photos Courtesy of Gandy Corporation Oil Field Service



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

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

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

CONDITIONS

Action 343267

CONDITIONS

Operator:	OGRID:
Flat Creek Resources, LLC	374034
777 Main St.	Action Number:
Fort Worth, TX 76102	343267
	Action Type:
	[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	Notify OCD 24 hours prior to casing & cement	5/31/2024
ward.rikala	Will require a File As Drilled C-102 and a Directional Survey with the C-104	5/31/2024
ward.rikala	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string	5/31/2024
ward.rikala	Cement is required to circulate on both surface and intermediate1 strings of casing	5/31/2024
ward.rikala	If cement does not circulate on any string, a CBL is required for that string of casing	5/31/2024
ward.rikala	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system	5/31/2024