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 NMLC067849 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 QUINT FEDERAL COM 102H 2. Name of Operator 9. API Well No. SILVERBACK OPERATING II LLC 30-015-56602 3a. Address 3b. Phone No. (include area code) 10. Field and Pool, or Exploratory 1001 W. WILSHIRE BLVD SUITE 206, OKLAHOMA CITY (405) 286-3375 RED LAKE/GLORIETA-YESO 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 27/T17S/R27E/NMP At surface NENE / 656 FNL / 141 FEL / LAT 32.81074 / LONG -104.258483 At proposed prod. zone SWNE / 1326 FNL / 2502 FEL / LAT 32.808785 / LONG -104.283156 14. Distance in miles and direction from nearest town or post office* 12. County or Parish 13 State **EDDY** NM 8 miles 15. Distance from proposed* 16. No of acres in lease 17. Spacing Unit dedicated to this well 141 feet location to nearest property or lease line, ft. 480.0 (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, 20 feet 3231 feet / 11723 feet FED: NMB002001 applied for, on this lease, ft. 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 22. Approximate date work will start* 23. Estimated duration 3540 feet 12/01/2024 30 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 (Electronic Submission) BRIAN WOOD / Ph: (405) 286-3375 06/21/2024 Title Permitting Agent Approved by (Signature) Date Name (Printed/Typed) (Electronic Submission) CODY LAYTON / Ph: (575) 234-5959 04/03/2025 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)

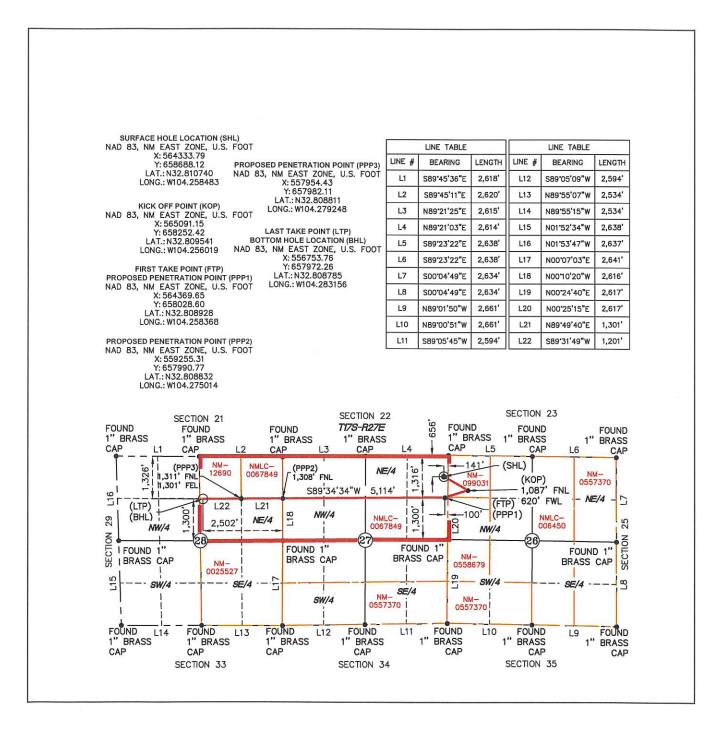
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									☐ As Drille	d	
					WELL LOCAT	ION INFORMATION					
API Nu	ımber 15- <mark>566</mark> (12	Pool Code 51-120	96836	1	Pool Name RED LAKE; GL	ORIFTA	-YFSC), NORTHE	EAST	
	y Code 337280	JZ	Property Na		. 9	EDERAL COM	01(1217)	0	Well Number		
OGRIE	No.		Operator Na	nme	0U. (EDD 10)		1		Ground Lev		
3309 Surface		State □ Fee □	Tribal N Fad	aral	SILVERBACK	OPERATING II, LLC Mineral Owner:	State Fee	□ Tribal Î	X Federal	3,540'	
Surface	Owner.	State in ree in	THOSE ZEC	Ciai		Willeral Owner.	State 🗆 ree	□ IIIbai y	A rederar		
				1		ace Location					
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude		Longitude	County	
Α	27	17-S	27-E		656' FROM N	141' FROM E	N32.8107	40	W104.258483	EDDY	
	1					Hole Location	T				
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude N32.8087	0.5	Longitude W104.283156	County	
G	28	17-S	· 27-E		1,326' FROM N	2,502' FROM E	N32.0007	00	VV104.263156	EDDT	
Dadiaa	ted Acres	Infill or Defin	ning Wall	Defining	Well API	Overlapping Spacing	Unit (V/N)	Consolid	lation Code		
480.		DEFINI		Defining	Well AFT	N		С	700 Paul Res 700 CCC		
Order 1	Numbers.				1	Well setbacks are und	der Common	Ownership	: □Yes □No		
					Kick O	ff Point (KOP)					
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude		Longitude	County	
D	26	17-S	27-E		1,807' FROM N	620' FROM W	N32.8095	41	W104.256019	EDDY	
5					First Ta	ike Point (FTP)					
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude		Longitude	County	
E	27	17-S	27-E		1,316' FROM N	100' FROM E	N32.8089	28	W104.258368	EDDY	
	***				Last Ta	ke Point (LTP)					
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude		Longitude	County	
G	28	17-S	27-E		1,326' FROM N	2,502' FROM E	N32.8087	85	W104.283156	EDDY	
					V			151 5	, ,		
Unitize	d Area or Ar	ea of Uniform I	nterest	Spacing	Unit Type XHoriz	contal Vertical	Grou	nd Floor E	elevation:		
OPERA	ATOR CERT	TIFICATIONS		2		SURVEYOR CERTIFIC	CATIONS				
I hereby	certify that th	e information coni	tained herein is	true and com	plete to the best of	I hereby certify that the w	ell location sho	wn on this	plat was plotted fro	om field notes of actual	
		ief, and, if the well ons a working inter				surveys made by me or und my belief.	der my supervisi	ion, and tha		nd correct to the best of	
includin	g the proposed	l bottom hole loca	tion or has a rig	ht to drill thi					THE	· BISS	
interest,		ary pooling agreei			g order heretofore				t the same is true at	18/2	
		ital well, I further	antify that this	ovanization	hav ranginad the				(204	450	
consent	of at least one	lessee or owner o	f a working inte	rest or unlea	sed mineral interest e well's completed				JE) s	
interval	will be located	rget pool or jound I or obtained a col	mpulsory poolin	ny pari oj ini g order from	the division.	Halle Sim SURVE					
5-2-25						Signature and Seal of Professional Surveyor					
Signature Date						Signature and Seal of Professional Surveyor					
В	RIAN W	/OOD				20450	4/25/2	5			
Printed 1	Vame					Certificate Number	Date of Surv	ey			
	brian	@permits	west.cor	n							

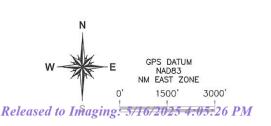
Note: No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

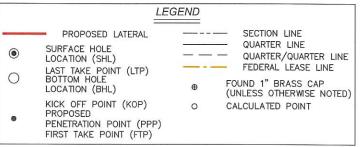
Email Address

This grid represents a standard section. You may superimpose a non-standard section, or larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is directionally drilled, with the dimensions from the section lines in the cardinal directions. If this is a horizontal wellbore show on this plat the location of the First Take Point and Last Take Point, and the point within the Completed interval (other than the First Take Point or Last Take Point) that is closest to any outer boundary of the tract.

Surveyors shall use the latest United States government survey or dependent resurvey. Well locations will be in reference to the New Mexico Principal Meridian. If the land is not surveyed, contact the OCD Engineering Bureau. Independent subdivision surveys will not be acceptable.







State of New Mexico Energy, Minerals and Natural Resources Department

Submit Electronically Via E-permitting

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

I. Operator: _Silverback Operating II, LLC OGRID: 330968 _Date: 9.18.2024
II. Type: ⊠ Original □ Amendment due to □ 19.15.27.9.D(6)(a) NMAC □ 19.15.27.9.D(6)(b) NMAC □ Other.
If Other, please describe:

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

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water
Wildland Fed Com 101H	30-015-xxxxx	A-27-17S-27E	606 FNL & 201 FEL	406	733	3041
Wildland Fed Com 102H	30-015-xxxxx	A-27-17S-27E	646 FNL & 201 FEL	406	733	3041
Wildland Fed Com 201H	30-015-xxxxx	A-27-17S-27E	626 FNL & 201 FEL	406	733	3041
Quint Fed Com 101H	30-015-xxxxx	A-27-17S-27E	616 FNL & 141 FEL	507	916	3200
Quint Fed Com 102H	30-015-xxxxx	A-27-17S-27E	656 FNL & 141 FEL	507	916	3200
Quint Fed Com 201H	30-015-xxxxx	A-27-17S-27E	636 FNL & 141 FEL	507	916	3200

IV. Central Delivery Point Name: _CTB Name: WQS CTB_____ [See 19.15.27.9(D)(1) NMAC]

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

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
Wildland Fed Com 101H	30-015-xxxxx	9/1/2025	9/15/2025	11/15/2025	12/5/2025	12/1/2025
Wildland Fed Com 102H	30-015-xxxxx	9/3/2025	9/30/2025	11/15/2025	12/5/2025	12/1/2025
Wildland Fed Com 201H	30-015-xxxxx	9/5/2025	10/14/2025	11/15/2025	12/5/2025	12/1/2025
Quint Fed Com 101H	30-015-xxxxx	9/7/2025	10/30/2025	11/15/2025	12/5/2025	12/1/2025
Quint Fed Com 102H	30-015-xxxxx	9/10/2025	11/15/2025	11/15/2025	12/5/2025	12/1/2025
Quint Fed Com 201H	30-015-xxxxx	9/13/2025	11/30/2025	11/15/2025	12/5/2025	12/1/2025
					_	_

- **VI. Separation Equipment:** ⊠ Attach a complete description of how Operator will size separation equipment to optimize gas capture.
- VIII. Best Management Practices:

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

			Enhanced Plan E APRIL 1, 2022		
	2022, an operator the complete this section		with its statewide natural ga	as capt	ture requirement for the applicable
	es that it is not requir t for the applicable rep		tion because Operator is in o	compli	iance with its statewide natural gas
IX. Anticipated Na	ntural Gas Productio	on:			
W	/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 (NG	GS):			
Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Ava	nilable Maximum Daily Capacity of System Segment Tie-in
production operation the segment or portion with the segment of the segm	ns to the existing or prion of the natural gas gat. The natural gas gat from the well prior to e. Operator does g system(s) described s plan to manage pro ity: Deperator assed in Paragraph (2) of	lanned interconnect of the gathering system will the date of first production does not anticipate the above will continue to duction in response to the trest confidentiality pursuit.	the natural gas gathering system which the well(s) will be considered with the well(s) will be considered with the well(s) will be considered with the capacity to get tion. at its existing well(s) connect meet anticipated increases in the increased line pressure. Suant to Section 71-2-8 NMS 27.9 NMAC, and attaches a few which we will be considered.	em(s), nected ather 1 red to to 1 line p	ted pipeline route(s) connecting the and the maximum daily capacity of . 100% of the anticipated natural gas the same segment, or portion, of the pressure caused by the new well(s). 78 for the information provided in scription of the specific information

Section 3 - Certifications

Effective May 25, 2021

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

- ☑ Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or
- □ Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system. *If Operator checks this box, Operator will select one of the following:*

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

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

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

Section 4 - Notices

- 1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:
- (a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or
- (b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.
- 2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

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

Signature: Justin Carter
Printed Name: Justin Carter
Title: Regulatory Manager
E-mail Address: jcarter@novoog.com
Date: 8/22/2024
Phone: 405.286.3375
OIL CONSERVATION DIVISION
(Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:

Separation Equipment

Silverback Operating II (LLC) has sampled existing producing wells and performed laboratory testing to determine composition. Performance of existing producing wells was analyzed to predict expected production volumes including a low probably, high volume production case (approximately 75% higher than type curve or most likely amount of production). Production composition and the volumes were utilized as inputs to a process model which predicts relative amounts of gas, oil and water throughout the process. The high volume case was used to size equipment, piping and instrumentation. Equipment sizing is based on drop settlement and limits the amount of carry over to the gas phase.

Each well has a dedicated 3 phase separator and gas from that separator is taken directly to gas sales. Facility piping and pipeline were sized to allow peak volumes to flow with minimal pressure loss and deliver to midstream gatherer at an acceptable pressure. Water is conveyed directly to tankage.

Oil from 3 phase separators is comingled and conveyed to a heated separator for enhanced liquid-liquid separation and degassing. Vapors from the heater treater are routed to flare. Oil and water storage tanks vapor outlets are common and utilize a closed vent vapor system to ensure all working & breathing and flashing losses are routed to the flare which is sized to accommodate peak expected production volume. Flash volumes were estimated using the high volume case and process modeling software.

Operational Practices

Silverback Operating II, LLC will ensure pipeline connectivity before producing hydrocarbons and will operate a closed vent vapor capture system that is designed to capture all associated and evolved gas during normal operation. Venting will only occur during maintenance activities or equipment failure or upset. Silverback may utilize the following from list A-I of Section 3 for its operations to minimize flaring:

- Power generation on lease Natural gas driven gen set to produce power required to run supply well pad electrical loads
- Compression on lease gas lift or gas compression as required
- Liquids removal on lease gas pressure will be used to convey fluids as needed

Best Management Practices

Silverback utilizes automate engineering controls included in facility design to minimize venting and flaring. Additionally, operational best practices support minimization of flare and venting as described below.

If the main gas outlet becomes unavailable and pressure increases on the outlet sales line, produced gas will be routed directly to the facility flare. The facility control system will alert personnel to the need for maintenance and appropriate response to the temporary flaring event.

The facility design includes a closed vent vapor capture system to route flash or evolved from the heater treater and tanks to the flare.

For maintenance activities, Silverback will utilize the facility flare to blowdown equipment and piping whenever practical to minimize venting



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

Well Name: QUINT FEDERAL COM

Drilling Plan Data Report 04/03/2025

APD ID: 10400098967

Submission Date: 06/21/2024

Highlighted data reflects the most recent changes

Operator Name: SILVERBACK OPERATING II LLC

Well Number: 102H

Well Type: OIL WELL

Well Work Type: Drill

Show Final Text

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
15344985	QUATERNARY	3540	0	0	OTHER : Caliche	USEABLE WATER	N
15344986	TANSILL	3455	85	85	DOLOMITE	NONE	N
15344987	YATES	3343	197	197	DOLOMITE	NONE	N
15344988	SEVEN RIVERS	3161	379	379	DOLOMITE	NATURAL GAS, OIL	N
15344989	QUEEN	2654	886	889	DOLOMITE	NATURAL GAS, OIL	N
15344990	GRAYBURG	2261	1279	1303	DOLOMITE	NATURAL GAS, OIL	N
15344991	SAN ANDRES	1896	1644	1727	DOLOMITE	NATURAL GAS, OIL	N
15344992	GLORIETA	527	3013	3361	DOLOMITE	NATURAL GAS, OIL	N
15344993	YESO	445	3095	3484	DOLOMITE	NATURAL GAS, OIL	Y

Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M Rating Depth: 5000

Equipment: A 5000-psi 5000 rated BOP stack consisting of annular preventer and double (blind and pipe) ram will be used below surface casing to TD

Requesting Variance? YES

Variance request: A variance is requested to the requirement of a rigid steel line connecting to the choke manifold. Flex hose specifications are attached.

Testing Procedure: A third-party testing company will conduct pressure tests and record the results before drilling out below casing shoes. The BOP, choke, choke manifold, top drive valves, and floor safety valve will be tested to 3500 psi before drilling below the surface casing shoe. The annular preventer will be tested to 3500 psi before drilling below the surface casing shoe. BOP equipment will be tested after any repairs to the equipment as well as drilling out below any casing string. Pipe rams, blind rams, and annular preventer will be activated on each trip. Weekly BOP drills will be held with each crew. Floor safety valves that are full open and sized to fit the drill pipe and collars will be available on the rig floor in the open position when the Kelly is not in use.

Well Name: QUINT FEDERAL COM Well Number: 102H

Choke Diagram Attachment:

BOP_Choke_20240609081924.pdf

BOP Diagram Attachment:

BOP_Choke_20240609082012.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	12.2 5	9.625	NEW	API	N	0	1243	0	1224	0	-1224	1243	J-55	36	BUTT	3.26	2.24	DRY	14.9 7	DRY	14.9 7
2	PRODUCTI ON	8.75	7.0		NON API	N	0	4004	0	3312	0	-3312	4004	L-80	-	OTHER - HC GBCD	4.69	2.09	DRY	8.16	DRY	8.16
3	PRODUCTI ON	8.75	5.5		NON API	Υ	4004	11723	3312	3231	-3312	-3231	7719	L-80		OTHER - HC GBCD	4.82	2.09	DRY	8.32	DRY	8.32

Casing Attachments

Casing ID: 1 String SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Quint_102H_Casing_Design_Assumptions_20240609082346.pdf

Well Name: QUINT FEDERAL COM Well Number: 102H

Casing Attachments

Casing ID: 2

String

PRODUCTION

Inspection Document:

Spec Document:

7in_Casing_Spec_20240609082403.pdf

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

 $Quint_102H_Casing_Design_Assumptions_20240609082430.pdf$

Casing ID: 3

String

PRODUCTION

Inspection Document:

Spec Document:

5.5in_Casing_Spec_20240609082511.pdf

Tapered String Spec:

5.5in_Casing_Spec_20240609082518.pdf

Casing Design Assumptions and Worksheet(s):

Quint_102H_Casing_Design_Assumptions_20240609082530.pdf

Section 4 - Cement

String Type	Lead/Tail	Stage Tool Depth	Тор МD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
PRODUCTION	Lead		0	0	0	0	0	0	0	None	None
PRODUCTION	Tail		4004	1172 3	2035	1.15	14.8	2340	20	+ 50% Class C	0.1% FR-5 + 0.4% CFL- 316 + 0.05% C-37 + 0.005 GPS No Foam V1A
SURFACE	Lead		0	1243	259	2.3	12.5	595	20		5% salt + 2% extender + 3 pps coal seal + 5 pps pumice + 1/8 pps cello-flake

Well Name: QUINT FEDERAL COM Well Number: 102H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Tail		0	1243	84	1.34	14.8	112	20	Class C	2% CaCl2
PRODUCTION	Lead		0	2514	202	2.81	11.5	567	20	50% Class B Poz + 50% Class C	10% gel + 5% salt + 0.5% SMS + 0.4% FR-5 + 0.1% SA-1+ 3 pps gilsonite + 0.25 pps pol- e-flake + 0.005 GPS No Foam V1A
PRODUCTION	Tail		2514	4004	234	1.15	14.8	269	20	50% Class B Poz + 50% Class C	0.1% FR-5 + 0.4% CFL- 316 + 0.05% C-37 + 0.005 GPS No Foam V!A

Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

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

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

Describe what will be on location to control well or mitigate other conditions: All necessary mud products (e. g., LCM) to handle any abnormal hole condition that may be encountered while drilling this well will be on site. Lost circulation could be encountered in the Seven Rivers and Queen.

Describe the mud monitoring system utilized: An electronic/mechanical mud monitor with a minimum pit volume totalizer, stroke counter, and flow sensor will be used.

Circulating Medium Table

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	ЬН	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	1243	OTHER : Fresh Water	8.4	9.5							
1243	2514	OTHER : Cut Brine	8.9	9.1							
2514	1172 3	OTHER : Cut Brine	8.9	9.1							

Well Name: QUINT FEDERAL COM Well Number: 102H

Section 6 - Test, Logging, Coring

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

Mud loggers will collect samples from base of surface casing to TD.

Open hole logs (GR/SP/DIL/LDT/CNL/ML) will be run from TD to the top of the uppermost potential hydrocarbon zone. Open hole logs (GR/SP/DIL) will be run from top of the uppermost potential hydrocarbon zone to the base of the surface casing. GR log will be run from base of the surface casing to GL. Cased hole CBL will be run on the production casing.

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

GAMMA RAY LOG, MUD LOG/GEOLOGICAL LITHOLOGY LOG, CNL/FDC,

Coring operation description for the well:

No core or drill stem test is planned.

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 1600 Anticipated Surface Pressure: 868

Anticipated Bottom Hole Temperature(F): 98

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

Quint_Wild_H2S_Plan_20240609083218.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Quint_102H_Horizontal_Plan_20240609081547.pdf

Other proposed operations facets description:

Other proposed operations facets attachment:

Coflex Certs 20240609083324.pdf

Quint_102H_Drill_Plan_20240609120047.pdf

WMP_Quint_Wildland_Pad_1_20240919085236.pdf

Other Variance attachment:

West(-)/East(+) (250 usft/in) SILVERBACK EXPLORATION **SECTION 27** SECTION 26 Quint Federal Com/101H Project: EDDY COUNTY, NM (NAD 83 - NME) Quint Federal Com/201H QUINT 102H KOP @ 2514.27' MD Site: Quint Federal Com Well: 102H Wellbore: OH QUINT 102H MAX BACKBUILD -750 Design: Plan 1r0 Quint Federal Com/102H QUINT 102H FTP QUINT 102H LTP/BHL West(-)/East(+) (50 usft/in) WELL DETAILS: 102H RKB = 20' @ 3560.10usft (TBD) QUINT 102H KOP @ 2514.27' MD -104.2584828 Start DLS 9.00 TFO 153.973 SECTION DETAILS SECTION 27 SECTION 26 **VSect** Target 3.00 2258.12 -435.70 0.00 -754.14 9.00 -530.39 -655.83 535.22 Start Build 3.00 -357.19 3239.76 -657.11 0.00 3325.00 QUINT 102H FTP QUINT 102H MAX BACKBUILD-650 QUINT 102H LTP/BHL 0.00 7585.08 Quint Federal Com/102H QUINT 102H FTP Start 200.00 hold at 3564.99 MD Start 7616.68 hold at 4106.18 MD Start Build 9.00 DESIGN TARGET DETAILS +N/-S Northing Latitude Longitude Easting QUINT 102H SHL -104.2584828 658688.12 564333.79 32.8107405 West(-)/East(+) (50 usft/in) QUINT 102H KOP @ 2514.27' MD -435.70 658252.42 565091.15 -104.2560187 2258.12 32.8095414 West(-)/East(+) (10 usft/in) QUINT 102H MAX BACKBUILD -552.69 2604.34 860.99 658135.43 -104.2556817 565194.78 32.8092196 -7750 -7700 -7650 -7600 -7550 -7500 -7450 -7400 -7350 -7300 -7250 -7200 QUINT 102H LTP/BHL 657972.26 -715.86 -7580.03 556753.76 32.8087851 -104.2831561 -659.52 658028.60 564369.65 QUINT 102H FTP 35.86 32.8089276 -104.2583676 Quint Federal Com/101H 근 2000 **Quint Federal Com/102H** PROJECT DETAILS: EDDY COUNTY, NM (NAD 83 - NME) QUINT 102H KOP @ 2514.27' MD TD at 11722.86 Geodetic System: US State Plane 1983 2200-Datum: North American Datum 1983 Start DL\$ 9.00 TFO 153.973 QUINT 102H LTP/BHL QUINT 101H SHL Ellipsoid: GRS 1980 Zone: New Mexico Eastern Zone 2400 System Datum: Mean Sea Level QUINT 201H SHL **QUINT 102H MAX BACKBUILD**

2400 2600 2800 3000 3200 3400 3600 3800 4000 4200 4400 4600 4800 5000 5200 5400 5600 5800

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Start 7616.68 hold at 4106.18 MD

Start 200.00 hold at 3564.99 MD

Start Build 9.00

QUINT 102H FTP

2800-

3000-

3200

Vertical Section at 269.58° (200 usft/in)

Plan: Plan 1r0 (102H/OH)

TD at 11722.86

QUINT 102H LTP/BHL

6000 6200 6400 6600 6800 7000 7200 7400 7600 7800 8000 8200

Quint Federal Com/201H 10

-10

Start Build 3.00

QUINT 102H SHL

Created By: PROTOTYPE WELL PLANNING / Date: 13:10, March 26 2024



Database: EDM 5000.1.13 Single User Db
Company: SILVERBACK EXPLORATION
Project: EDDY COUNTY, NM (NAD 83 - NME)

Site: Quint Federal Com

Well: 102H
Wellbore: OH
Design: Plan 1r0

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:

Well 102H

RKB = 20' @ 3560.10usft (TBD) RKB = 20' @ 3560.10usft (TBD)

Grid

Minimum Curvature

Project EDDY COUNTY, NM (NAD 83 - NME)

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

System Datum:

Mean Sea Level

Site Quint Federal Com

Site Position: Northing: 657,266.11 usft 32.8068313 Latitude: From: Мар Easting: 564,645.88 usft Longitude: -104.2574703 **Position Uncertainty:** 0.00 usft Slot Radius: 13-3/16 " **Grid Convergence:** 0.041°

Well 102H

 Well Position
 +N/-S
 1,422.01 usft +E/-W
 Northing:
 658,688.13 usft 564,333.80 usft
 Latitude:
 32.8107405

 +E/-W
 -312.09 usft
 Easting:
 564,333.80 usft
 Longitude:
 -104.2584828

Position Uncertainty 0.00 usft Wellhead Elevation: 0.00 usft Ground Level: 3,540.10 usft

Wellbore OH

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

 IGRF2020
 03/26/24
 6.586
 60.239
 47,479

Design Plan 1r0

Audit Notes:

Version: Phase: PLAN Tie On Depth: 0.00

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

 0.00
 0.00
 0.00
 269.58

Plan Section	s									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.000	
1,795.26	38.86	119.91	1,698.23	-210.76	366.34	3.00	3.00	0.00	119.912	
2,514.27	38.86	119.91	2,258.12	-435.70	757.35	0.00	0.00	0.00	0.000	
3,564.99	60.00	269.58	3,139.76	-655.83	535.22	9.00	2.01	14.24	153.973	
3,764.99	60.00	269.58	3,239.76	-657.11	362.01	0.00	0.00	0.00	0.000	
4,106.18	90.71	269.58	3,325.00	-659.52	35.86	9.00	9.00	0.00	0.000	QUINT 102H FTP
11,722.86	90.71	269.58	3,231.00	-715.86	-7,580.03	0.00	0.00	0.00	0.000	QUINT 102H LTP/B



Database:EDM 5000.1.13 Single User DbCompany:SILVERBACK EXPLORATIONProject:EDDY COUNTY, NM (NAD 83 - NME)

Site: Quint Federal Com

 Well:
 102H

 Wellbore:
 OH

 Design:
 Plan 1r0

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well 102H

RKB = 20' @ 3560.10usft (TBD) RKB = 20' @ 3560.10usft (TBD)

Grid

lanne	ed Survey									
	Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	QUINT 102 100.00	2 H SHL 0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
	200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
	300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
	400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
	500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
	600.00 700.00	3.00 6.00	119.91	599.95 699.63	-1.31 -5.22	2.27 9.07	-2.26 -9.03	3.00	3.00 3.00	0.00
	800.00	9.00	119.91 119.91	798.77	-5.22 -11.73	20.38	-9.03 -20.29	3.00 3.00	3.00	0.00 0.00
	900.00	12.00	119.91	897.08	-20.81	36.18	-36.02	3.00	3.00	0.00
	1,000.00	15.00	119.91	994.31	-32.45	56.41	-56.17	3.00	3.00	0.00
	1,100.00	18.00	119.91	1,090.18	-46.61	81.02	-80.68	3.00	3.00	0.00
	1,200.00 1,300.00	21.00 24.00	119.91 119.91	1,184.43 1,276.81	-63.26 -82.34	109.95 143.12	-109.49 -142.51	3.00 3.00	3.00 3.00	0.00 0.00
	1,400.00	27.00	119.91	1,367.06	-02.34	180.43	-142.51	3.00	3.00	0.00
	1,500.00	30.00	119.91	1,454.93	-127.59	221.79	-220.85	3.00	3.00	0.00
	1,600.00	33.00	119.91	1,540.18	-153.65	267.07	-265.94	3.00	3.00	0.00
	1,700.00	36.00	119.91	1,622.59	-181.89	316.16	-314.82	3.00	3.00	0.00
	1,795.26 1,800.00	38.86 38.86	119.91 119.91	1,698.23 1,701.92	-210.76 -212.24	366.34 368.92	-364.79 -367.36	3.00 0.00	3.00 0.00	0.00 0.00
	•			•						
	1,900.00 2,000.00	38.86 38.86	119.91 119.91	1,779.79 1,857.66	-243.53 -274.81	423.30 477.68	-421.51 -475.66	0.00 0.00	0.00 0.00	0.00 0.00
	2,100.00	38.86	119.91	1,935.53	-306.10	532.07	-529.81	0.00	0.00	0.00
	2,200.00	38.86	119.91	2,013.40	-337.38	586.45	-583.96	0.00	0.00	0.00
	2,300.00	38.86	119.91	2,091.27	-368.67	640.83	-638.11	0.00	0.00	0.00
	2,400.00	38.86	119.91	2,169.14	-399.95	695.21	-692.26	0.00	0.00	0.00
	2,500.00 2,514.27	38.86 38.86	119.91 119.91	2,247.01 2,258.12	-431.24 -435.70	749.59 757.35	-746.41 -754.14	0.00 0.00	0.00 0.00	0.00 0.00
	-	2H KOP @ 251		2,200.12	100.70	707.00	701.11	0.00	0.00	0.00
	2,550.00	35.99	122.31	2,286.50	-446.91	775.95	-772.65	9.00	-8.02	6.72
	2,600.00	32.08	126.28	2,327.93	-462.63	799.08	-795.66	9.00	-7.83	7.94
	2,650.00	28.31	131.20	2,371.14	-478.30	818.71	-815.18	9.00	-7.52	9.84
	2,700.00 2,750.00	24.78 21.57	137.44 145.50	2,415.88 2,461.85	-493.84 -509.14	834.73 847.03	-831.09 -843.27	9.00 9.00	-7.08 -6.40	12.48 16.12
	2,800.00	18.88	155.96	2,508.77	-524.11	855.53	-851.67	9.00	-5.39	20.92
	2,850.00	16.94	169.20	2,556.37	-538.65	860.20	-856.23	9.00	-3.89	26.49
	2,900.00	16.02	184.79	2,604.34	-552.69	860.99	-856.91	9.00	-1.83	31.16
		H MAX BACK								
	2,950.00 3,000.00	16.31 17.74	200.96 215.58	2,652.39 2,700.22	-566.13 -578.89	857.90 850.95	-853.72 -846.68	9.00 9.00	0.58 2.86	32.36 29.24
	3,050.00	20.07	213.30	2,747.53	-590.89	840.18	-835.83	9.00	4.66	23.84
	3,100.00	23.03	236.76	2,794.04	-602.05	825.67	-821.23	9.00	5.92	18.51
	3,150.00	26.41	243.88	2,839.46	-612.32	807.49	-802.98	9.00	6.76	14.26
	3,200.00	30.07	249.45	2,883.51	-621.62	785.77	-781.19	9.00	7.31	11.12
	3,250.00 3,300.00	33.91 37.88	253.88 257.49	2,925.92 2,966.42	-629.89 -637.09	760.63 732.23	-755.99 -727.54	9.00 9.00	7.68 7.94	8.86 7.23
	3,350.00	41.94	260.51	3,004.77	-643.17	700.75	-696.01	9.00	8.13	6.03
	3,400.00	46.07	263.08	3,040.73	-648.10	666.37	-661.61	9.00	8.26	5.14
	3,450.00	50.25	265.32	3,074.07	-651.84	629.32	-624.53	9.00	8.36	4.47
	3,500.00	54.47	267.29	3,104.60	-654.37	589.82	-585.01	9.00	8.44	3.96
	3,550.00 3,564.99	58.72 60.00	269.07 269.58	3,132.12 3,139.76	-655.68 -655.83	548.11 535.22	-543.29 -530.39	9.00 9.00	8.50 8.53	3.56 3.35
	5,00-4.00	50.00	200.00	5,100.70	300.00	000.22	000.00	5.00	0.00	0.00



Database: EDM 5000.1.13 Single User Db SILVERBACK EXPLORATION Project: EDDY COUNTY, NM (NAD 83 - NME)

Site: Quint Federal Com

 Well:
 102H

 Wellbore:
 OH

 Design:
 Plan 1r0

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well 102H

RKB = 20' @ 3560.10usft (TBD) RKB = 20' @ 3560.10usft (TBD)

Grid

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
3,600.00	60.00	269.58	3,157.26	-656.05	504.90	-500.07	0.00	0.00	0.00
3,700.00	60.00	269.58	3,207.26	-656.69	418.30	-413.47	0.00	0.00	0.00
3,764.99	60.00	269.58	3,239.76	-657.11	362.01	-357.19	0.00	0.00	0.00
3,800.00	63.15	269.58	3,256.42	-657.34	331.23	-326.40	9.00	9.00	0.00
3,850.00	67.65	269.58	3,277.23	-657.67	285.78	-280.95	9.00	9.00	0.00
3,900.00	72.15	269.58	3,294.41	-658.02	238.84	-234.01	9.00	9.00	0.00
3,950.00	76.65	269.58	3,307.85	-658.38	190.69	-185.86	9.00	9.00	0.00
4,000.00	81.15	269.58	3,317.47	-658.74	141.64	-136.81	9.00	9.00	0.00
4,050.00	85.65	269.58	3,323.22	-659.11	91.99	-87.16	9.00	9.00	0.00
4,100.00	90.15	269.58	3,325.05	-659.48	42.04	-37.20	9.00	9.00	0.00
4,106.18 QUINT 102	90.71	269.58	3,325.00	-659.52	35.86	-31.02	9.00	9.00	0.00
4,200.00	90.71	269.58	3,323.84	-660.22	-57.95	62.79	0.00	0.00	0.00
4,300.00	90.71	269.58	3,322.61	-660.96	-157.94	162.78	0.00	0.00	0.00
4,400.00	90.71	269.58	3,321.37	-661.70	-257.93	262.78	0.00	0.00	0.00
4,500.00	90.71	269.58	3,320.14	-662.44	-357.92	362.77	0.00	0.00	0.00
4,600.00	90.71	269.58	3,318.91	-663.17	-457.91	462.76	0.00	0.00	0.00
4,700.00	90.71	269.58	3,317.67	-663.91	-557.90	562.75	0.00	0.00	0.00
4,800.00	90.71	269.58	3,316.44	-664.65	-657.89	662.75	0.00	0.00	0.00
4,900.00	90.71	269.58	3,315.20	-665.39	-757.88	762.74	0.00	0.00	0.00
5,000.00	90.71	269.58	3,313.97	-666.13	-857.87	862.73	0.00	0.00	0.00
5,100.00	90.71	269.58	3,312.74	-666.87	-957.86	962.72	0.00	0.00	0.00
5,200.00	90.71	269.58	3,311.50	-667.61	-1,057.85	1,062.71	0.00	0.00	0.00
5,300.00	90.71	269.58	3,310.27	-668.35	-1,157.84	1,162.71	0.00	0.00	0.00
5,400.00	90.71	269.58	3,309.03	-669.09	-1,257.83	1,262.70	0.00	0.00	0.00
5,500.00	90.71	269.58	3,307.80	-669.83	-1,357.82	1,362.69	0.00	0.00	0.00
5,600.00	90.71	269.58	3,306.56	-670.57	-1,457.81	1,462.68	0.00	0.00	0.00
5,700.00	90.71	269.58	3,305.33	-671.31	-1,557.80	1,562.68	0.00	0.00	0.00
5,800.00	90.71	269.58	3,304.10	-672.05	-1,657.79	1,662.67	0.00	0.00	0.00
5,900.00	90.71	269.58	3,302.86	-672.79	-1,757.78	1,762.66	0.00	0.00	0.00
6,000.00	90.71	269.58	3,301.63	-673.53	-1,857.77	1,862.65	0.00	0.00	0.00
6,100.00	90.71	269.58	3,300.39	-674.27	-1,957.76	1,962.65	0.00	0.00	0.00
6,200.00	90.71	269.58	3,299.16	-675.01	-2,057.75	2,062.64	0.00	0.00	0.00
6,300.00	90.71	269.58	3,297.93	-675.75	-2,157.74	2,162.63	0.00	0.00	0.00
6,400.00	90.71	269.58	3,296.69	-676.49	-2,257.73	2,262.62	0.00	0.00	0.00
6,500.00	90.71	269.58	3,295.46	-677.23	-2,357.71	2,362.62	0.00	0.00	0.00
6,600.00 6,700.00 6,800.00 6,900.00 7,000.00	90.71 90.71 90.71 90.71 90.71	269.58 269.58 269.58 269.58 269.58	3,294.22 3,292.99 3,291.75 3,290.52 3,289.29	-677.97 -678.71 -679.45 -680.19 -680.93	-2,457.70 -2,557.69 -2,657.68 -2,757.67 -2,857.66	2,462.61 2,562.60 2,662.59 2,762.59 2,862.58	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00
7,100.00	90.71	269.58	3,288.05	-681.67	-2,957.65	2,962.57	0.00	0.00	0.00
7,200.00	90.71	269.58	3,286.82	-682.41	-3,057.64	3,062.56	0.00	0.00	0.00
7,300.00	90.71	269.58	3,285.58	-683.15	-3,157.63	3,162.55	0.00	0.00	0.00
7,400.00	90.71	269.58	3,284.35	-683.89	-3,257.62	3,262.55	0.00	0.00	0.00
7,500.00	90.71	269.58	3,283.12	-684.63	-3,357.61	3,362.54	0.00	0.00	0.00
7,600.00	90.71	269.58	3,281.88	-685.37	-3,457.60	3,462.53	0.00	0.00	0.00
7,700.00	90.71	269.58	3,280.65	-686.11	-3,557.59	3,562.52	0.00	0.00	0.00
7,800.00	90.71	269.58	3,279.41	-686.84	-3,657.58	3,662.52	0.00	0.00	0.00
7,900.00	90.71	269.58	3,278.18	-687.58	-3,757.57	3,762.51	0.00	0.00	0.00
8,000.00	90.71	269.58	3,276.95	-688.32	-3,857.56	3,862.50	0.00	0.00	0.00
8,100.00	90.71	269.58	3,275.71	-689.06	-3,957.55	3,962.49	0.00	0.00	0.00
8,200.00	90.71	269.58	3,274.48	-689.80	-4,057.54	4,062.49	0.00	0.00	0.00
8,300.00	90.71	269.58	3,273.24	-690.54	-4,157.53	4,162.48	0.00	0.00	0.00



Database: EDM 5000.1.13 Single User Db
Company: SILVERBACK EXPLORATION
Project: EDDY COUNTY, NM (NAD 83 - NME)

Site: Quint Federal Com

 Well:
 102H

 Wellbore:
 OH

 Design:
 Plan 1r0

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well 102H

RKB = 20' @ 3560.10usft (TBD) RKB = 20' @ 3560.10usft (TBD)

Grid

0			_		_				
ned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,400.00	90.71	269.58	3,272.01	-691.28	-4,257.52	4,262.47	0.00	0.00	0.00
8,500.00	90.71	269.58	3,270.77	-692.02	-4,357.51	4,362.46	0.00	0.00	0.00
8,600.00	90.71	269.58	3,269.54	-692.76	-4,457.50	4,462.46	0.00	0.00	0.00
8,700.00	90.71	269.58	3,268.31	-693.50	-4,557.49	4,562.45	0.00	0.00	0.00
8,800.00	90.71	269.58	3,267.07	-694.24	-4,657.48	4,662.44	0.00	0.00	0.00
8,900.00	90.71	269.58	3,265.84	-694.98	-4,757.47	4,762.43	0.00	0.00	0.00
9,000.00	90.71	269.58	3,264.60	-695.72	-4,857.46	4,862.43	0.00	0.00	0.00
9,100.00	90.71	269.58	3,263.37	-696.46	-4,957.45	4,962.42	0.00	0.00	0.00
9,200.00	90.71	269.58	3,262.14	-697.20	-5,057.44	5,062.41	0.00	0.00	0.00
9,300.00	90.71	269.58	3,260.90	-697.94	-5,157.43	5,162.40	0.00	0.00	0.00
9,400.00	90.71	269.58	3,259.67	-698.68	-5,257.41	5,262.40	0.00	0.00	0.00
9,500.00	90.71	269.58	3,258.43	-699.42	-5,357.40	5,362.39	0.00	0.00	0.00
9,600.00	90.71	269.58	3,257.20	-700.16	-5,457.39	5,462.38	0.00	0.00	0.00
9,700.00	90.71	269.58	3,255.96	-700.90	-5,557.38	5,562.37	0.00	0.00	0.00
9,800.00	90.71	269.58	3,254.73	-701.64	-5,657.37	5,662.36	0.00	0.00	0.00
9,900.00	90.71	269.58	3,253.50	-702.38	-5,757.36	5,762.36	0.00	0.00	0.00
10,000.00	90.71	269.58	3,252.26	-703.12	-5,857.35	5,862.35	0.00	0.00	0.00
10,100.00	90.71	269.58	3,251.03	-703.86	-5,957.34	5,962.34	0.00	0.00	0.00
10,200.00	90.71	269.58	3,249.79	-704.60	-6,057.33	6,062.33	0.00	0.00	0.00
10,300.00	90.71	269.58	3,248.56	-705.34	-6,157.32	6,162.33	0.00	0.00	0.00
10,400.00	90.71	269.58	3,247.33	-706.08	-6,257.31	6,262.32	0.00	0.00	0.00
10,500.00 10,600.00 10,700.00 10,800.00 10,900.00 11,000.00	90.71 90.71 90.71 90.71 90.71 90.71	269.58 269.58 269.58 269.58 269.58 269.58	3,244.86 3,243.62 3,242.39 3,241.16 3,239.92	-706.82 -707.56 -708.30 -709.04 -709.78 -710.52	-6,357.30 -6,457.29 -6,557.28 -6,657.27 -6,757.26 -6,857.25	6,362.31 6,462.30 6,562.30 6,662.29 6,762.28 6,862.27	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00
11,100.00	90.71	269.58	3,238.69	-711.25	-6,957.24	6,962.27	0.00	0.00	0.00
11,200.00	90.71	269.58	3,237.45	-711.99	-7,057.23	7,062.26	0.00	0.00	0.00
11,300.00	90.71	269.58	3,236.22	-712.73	-7,157.22	7,162.25	0.00	0.00	0.00
11,400.00	90.71	269.58	3,234.98	-713.47	-7,257.21	7,262.24	0.00	0.00	0.00
11,500.00	90.71	269.58	3,233.75	-714.21	-7,357.20	7,362.24	0.00	0.00	0.00
11,600.00 11,700.00 11,722.86 QUINT 102	90.71 90.71 90.71	269.58 269.58 269.58	3,232.52 3,231.28 3,231.00	-714.95 -715.69 -715.86	-7,457.19 -7,557.18 -7,580.03	7,462.23 7,562.22 7,585.08	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00



Database: EDM 5000.1.13 Single User Db Company: SILVERBACK EXPLORATION Project: EDDY COUNTY, NM (NAD 83 - NME)

Site: Quint Federal Com

 Well:
 102H

 Wellbore:
 OH

 Design:
 Plan 1r0

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well 102H

RKB = 20' @ 3560.10usft (TBD) RKB = 20' @ 3560.10usft (TBD)

Grid

Design Targets									
Target Name - hit/miss target D - Shape	oip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
QUINT 102H SHL - plan hits target cer - Point	0.00 nter	0.00	0.00	0.00	0.00	658,688.13	564,333.80	32.8107405	-104.2584828
QUINT 102H KOP @ - plan hits target cer - Point	0.00 nter	0.00	2,258.12	-435.70	757.35	658,252.42	565,091.15	32.8095414	-104.2560187
QUINT 102H MAX BA - plan hits target cer - Point	0.00 nter	0.00	2,604.34	-552.69	860.99	658,135.43	565,194.78	32.8092196	-104.2556817
QUINT 102H LTP/BHI - plan hits target cer - Point	0.00 nter	0.00	3,231.00	-715.86	-7,580.03	657,972.26	556,753.76	32.8087852	-104.2831561
QUINT 102H FTP - plan hits target cen - Point	0.00 nter	0.00	3,325.00	-659.52	35.86	658,028.60	564,369.65	32.8089276	-104.2583676

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: Silverback Operating II LLC
WELL NAME & NO.: Quint Federal Com 102H
LOCATION: Sec 26-17S-27E-NMP
COUNTY: Eddy County, New Mexico

COA

H_2S	0	No	Yes		
Potash /	None	Secretary	© R-111-Q	☐ Open Annulus	
WIPP				\square WIPP	
Cave / Karst	C Low	Medium	• High	Critical	
Wellhead	Conventional	Multibowl	O Both	Diverter	
Cementing	☐ Primary Squeeze	☐ Cont. Squeeze	☐ EchoMeter	□ DV Tool	
Special Req	☐ Capitan Reef	☐ Water Disposal	▼ COM	Unit	
Waste Prev.	C Self-Certification	• Waste Min. Plan	C APD Submitted p	rior to 06/10/2024	
Additional	Flex Hose	☐ Casing Clearance	☐ Pilot Hole	☐ Break Testing	
Language	☐ Four-String	☐ Offline Cementing	☐ Fluid-Filled		

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H2S) Drilling Plan shall be activated at surface. H2S has been reported within one mile in the **Yates** formation. As a result, the Hydrogen Sulfide area must meet all requirements from 43 CFR 3176, 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 **9-5/8** inch surface casing shall be set at approximately **1750** feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface. *Set depth adjusted per BLM geologist*.
 - 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 <u>8 hours</u> or <u>500</u> pounds compressive strength, whichever is greater. (This is to include the lead cement)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.

- d. If cement falls back, remedial cementing will be done prior to drilling out that string.
- 2. The minimum required fill of cement behind the 7 inch production casing is:

The operator has proposed utilize a DV tool. The selected depth is below the Salado and is an acceptable set point. Operator may adjust depth of DV tool if it remains below the Salado and cement volumes are adjusted accordingly. The DV tool may be cancelled if cement circulates to surface on the first stage.

- a. **First stage to DV tool:** Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
- b. Second stage above DV tool: Cement to surface. If cement does not circulate, contact the appropriate BLM office. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, Capitan Reef, 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.

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. 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.

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 3171 and 3172.
- 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)

Contact Eddy County Petroleum Engineering Inspection Staff:

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
 - i. Notify the BLM when moving in and removing the Spudder Rig.
 - ii. 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.
 - iii. BOP/BOPE test to be conducted per **43 CFR 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. For intervals in which cement to surface is required, cement to surface should be verified with a visual check and density or pH check to differentiate cement from spacer and drilling mud. The results should be documented in the driller's log and daily reports.

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. <u>Wait on cement (WOC) for Potash Areas:</u> After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following

Page 3 of 6

- conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends of both lead and tail cement, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
- 5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
- 6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
- 7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
- 8. Whenever a casing string is cemented in the R-111-Q 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 3172**.
- 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:
 - i. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - ii. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - iii. Manufacturer representative shall install the test plug for the initial BOP test.
 - iv. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.
 - v. 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.
 - i. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - ii. 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.)
 - iii. 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 3172** with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for 8 hours or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).

- iv. 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.
- v. The results of the test shall be reported to the appropriate BLM office.
- vi. 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.
- vii. 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.
- viii. 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 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.

Silverback Operating II, LLC HYDROGEN SULFIDE (H2S) CONTINGENCY PLAN

Assumed 100 ppm ROE = 3000'

100 ppm H2S concentration shall trigger activation of this plan.

This is an open drilling site. H2S monitoring equipment and emergency response equipment will be rigged up and in use when the company drills out from under surface casing. H2S monitors, warning signs, wind indicators and flags will be in use.

- 1. All personnel shall receive proper H2S training in accordance with Onshore Order 6 111.C.3.a
- 2. Briefing Area: Two perpendicular areas will be designated by signs and readily accessible.
- 3. Required Emergency Equipment:
 - 3.1. Well control equipment
 - 3.1.1. Flare line 150' from wellhead to be ignited by flare gun.
 - 3.1.2. Choke manifold with a remotely operated choke.
 - 3.1.3. Mud/Gas Separator.
 - 3.2. Protective Equipment for essential personnel.
 - 3.2.1. Breathing apparatus:
 - 3.2.2. Rescue Packs (SCBA) 1 unit shall be placed at each briefing area. 2 units shall be stored in the safety trailer.
 - 3.2.3. Work/Escape packs 4 packs shall be stored on the rig floor with sufficient air hose not to restrict work activity.
 - 3.2.4. Emergency Escape Packs 4 packs shall be stored in the doghouse for emergency evacuation.
 - 3.3. Auxiliary Rescue Equipment:
 - 3.3.1. Stretcher
 - 3.3.2. Two OSHA full body harness
 - 3.3.3. 100 ft. 5/8" OSHA approved rope
 - 3.3.4. One 20# class ABC fire extinguisher
 - 3.4. H2S detection and monitoring Equipment:
 - 3.4.1. The stationary detector with three sensors will be placed in the upper doghouse, 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 flare line or where well bore fluid is being discharged (Gas sample tubes will be stored in the safety trailer).
 - 3.5. Visual warning systems.
 - 3.5.1. One color code condition sign will be placed at the entrance to the site reflecting the possible conditions at the site.

- 3.5.2. A colored condition flag will be on display, reflecting the current condition, at the drilling site.
- 3.5.3. Two windsocks will be placed in strategic locations, visible from all angles. 3.6. Mud Program:
 - 3.6.1. The mud program has been designated 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.
- 3.7. Metallurgy:
 - 3.7.1. All drill strings, casings, tubing, wellhead, blowout preventer, drilling spool, kill lines, choke manifold and lines, shall be suitable for H2S service.
 - 3.7.2. All elastomers used for packing and seals shall be H2S trim.
- 3.8. Communication:
 - 3.8.1. Communication will be via two-way radio located in company vehicles. Cell phones and landlines where available.

H2S Operations

Though no H2S is anticipated during the drilling operation, this contingency plan will provide for methods to ensure the well is kept under control in the event an H2S reading of 100 ppm or more is encountered. Once personnel are safe and the proper protective gear is in place and on personnel, the operator and rig crew essential personnel will ensure the well is under control, suspend drilling operations and shut-in the well (unless pressure build up or other operational situations dictate suspending operations will prevent well control), increase the mud weight and circulate all gas from the hole utilizing the mud/gas separator downstream of the choke, the choke manifold and the emergency flare system located 150' from the well. Bring the mud system into compliance and the H2S level below 10 ppm, then notify all emergency officers that drilling ahead is practical and safe. Proceed with drilling ahead only after all provisions of Onshore Order 6, Section 111.C. have been satisfied.

Ignition of Gas source

Should control of the well be considered lost and ignition considered, take care to protect against exposure to Sulfur Dioxide (SO₂). Intentional ignition must be coordinated with the NMOCD and local officials. Additionally, the NM State Police may become involved. NM State Police shall be the Incident Command on scene of any major release. Take care to protect downwind whenever this is an ignition of the gas.

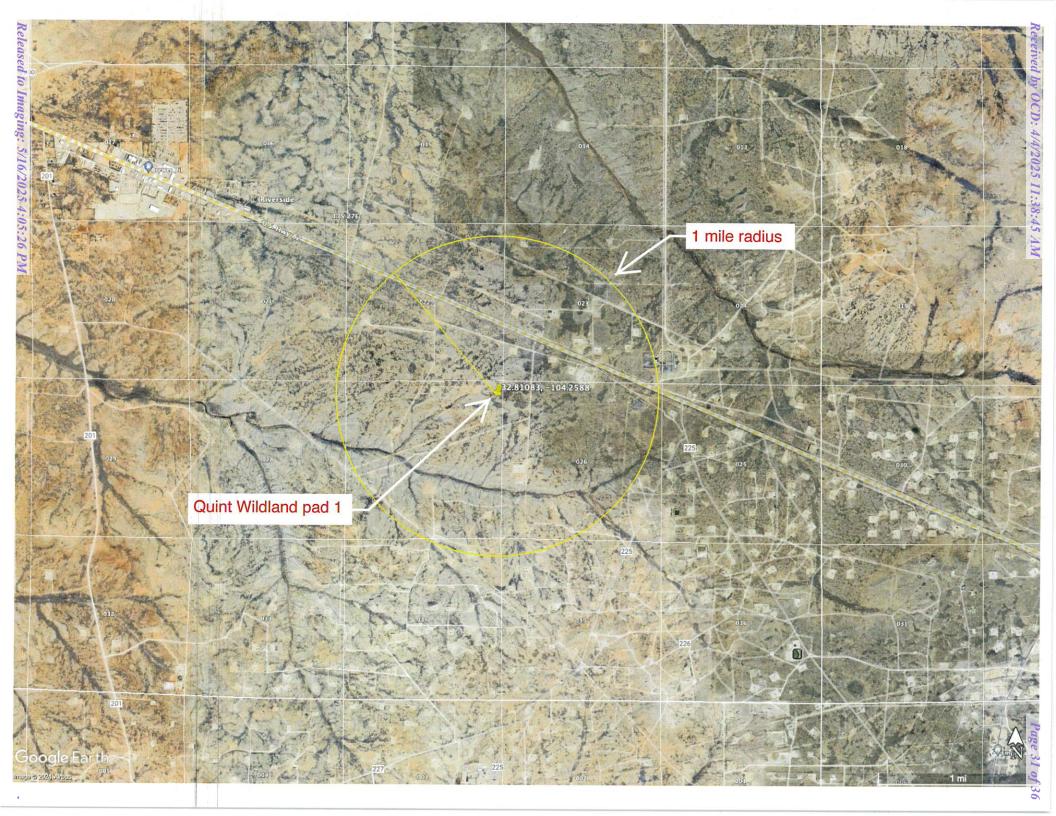
Characteristics of H2S and s02

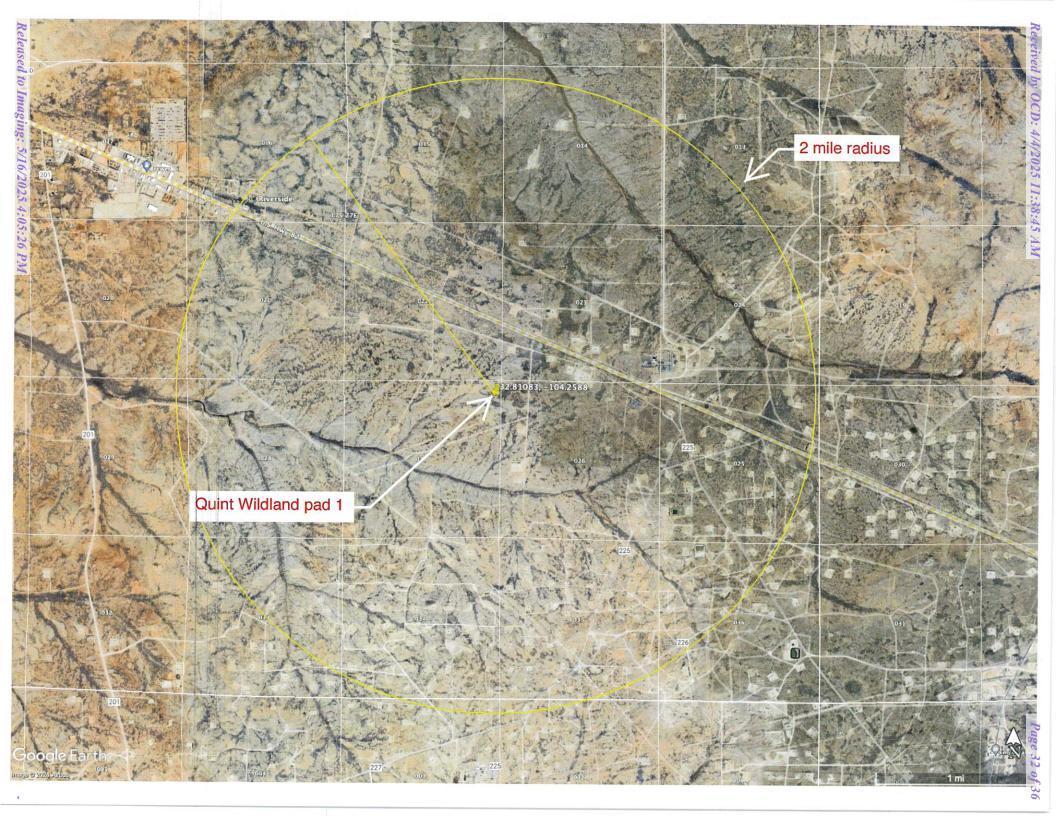
Common Name	Chemical Formula	Specific Gravity	Threshold Limit	Hazardous Limit	Lethal Concentration
Hydrogen Sulfide	H ₂ S	1.189 Air= I	10 ppm	100 ppm/hr	600 ppm
Sulfur Dioxide	SO ₂	2.21 Air= I	2 ppm	N/A	1000 ppm

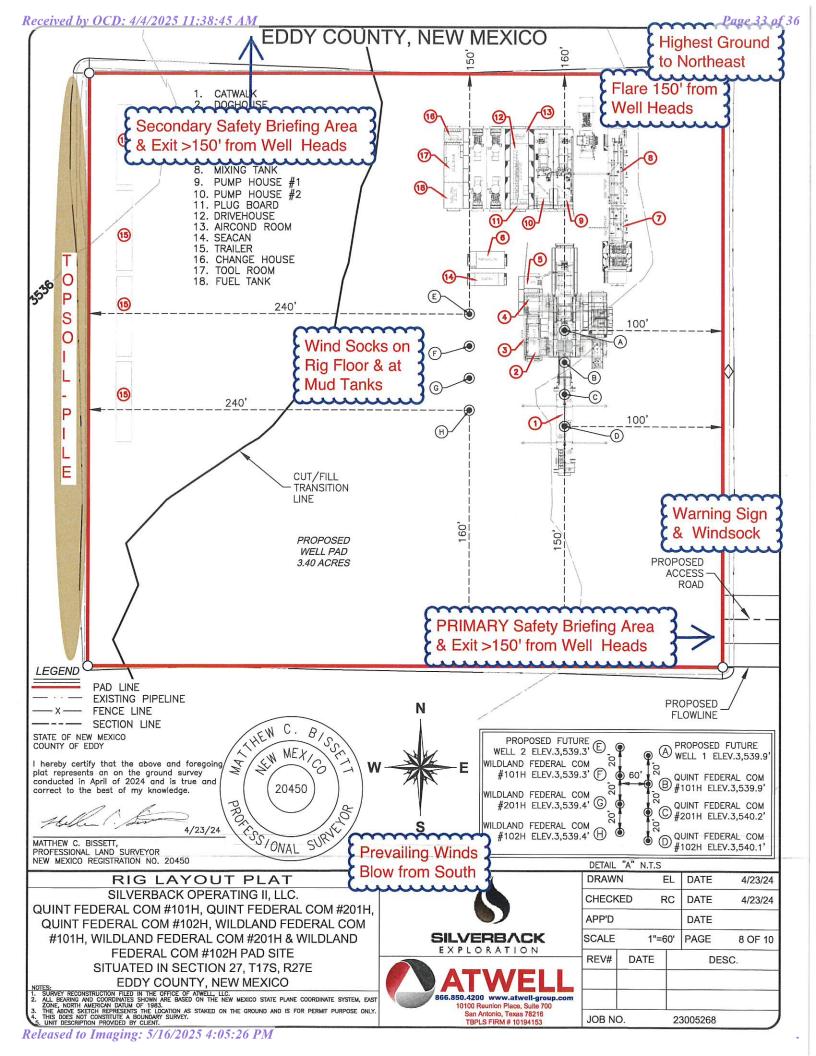
Contacting Authorities

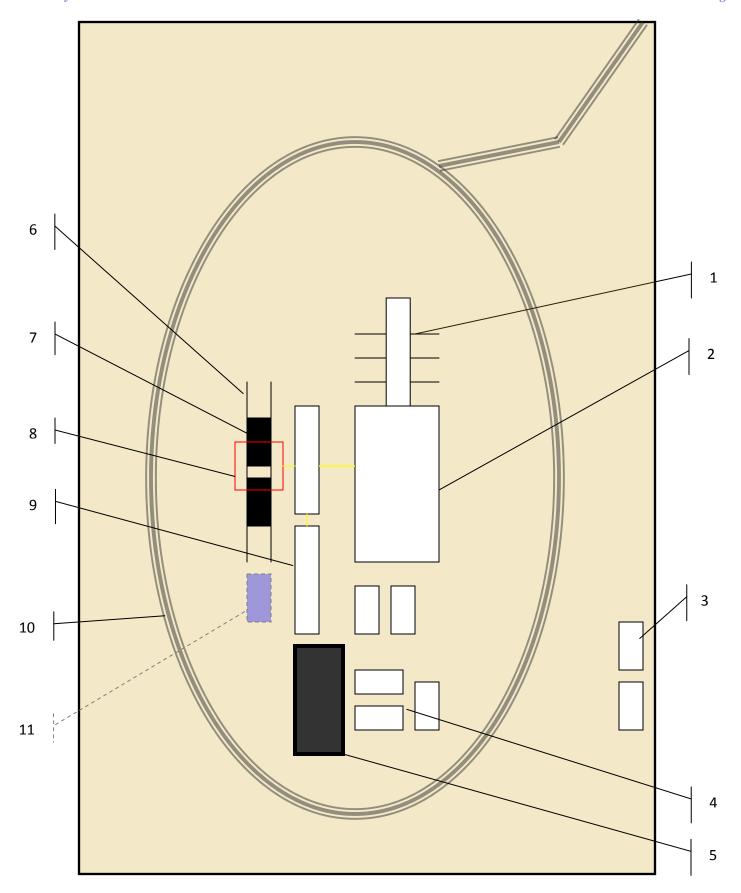
Silverback Operating II, LLC's personnel must liaison with local and state agencies to ensure a proper response to a major release. Additionally, the OCD must be notified of the release as soon as possible but no later than 4 hours. Agencies will ask for information such as type and volume of release, wind direction, location of release, etc. Be prepared with all information available including directions to site. The following call list of essential and potential responders has been prepared for use during a release. Silverback's response must be in coordination with the State of New Mexico's "Hazardous Materials Emergency Response Plan" (HMER).

Public Safety						
Eddy County Sheriff	(575) 887-7551					
Carlsbad Fire Department	(575) 885-3125					
Artesia General Hospital	(575) 748-3333					
Ambulance	911					
Department of Public Safety	(392) 392-5588					
Oil Conservation Division	(575) 748-1823					
New Mexico Energy, Minerals & Natural Resources Department	(575) 748-1283					
Silverback Op	perating II, LLC					
Drilling Manager	Wade Chapman- 361-215-2373					
Drilling Engineer						
Operations Manager	Wade Chapman- 361-215-2373					
Company Representative	Fatma Abdallah- 832-506-7262					
	Contractor					
Tool Pusher						
Relief Tool Pusher						
Drilling Manager						
•	ting II, LLC Safety					
EHS Coordinator	Mark Ritchie- 713-553-8320					
Field Safety Technician						
BLM ON-	CALL LIST					
On-Call Engineer	575-706-2779					
BLM Eddy County PET On-Call	575-361-2822					
BLM Hobbs County PET On-Call	575-689-5981					









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





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

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

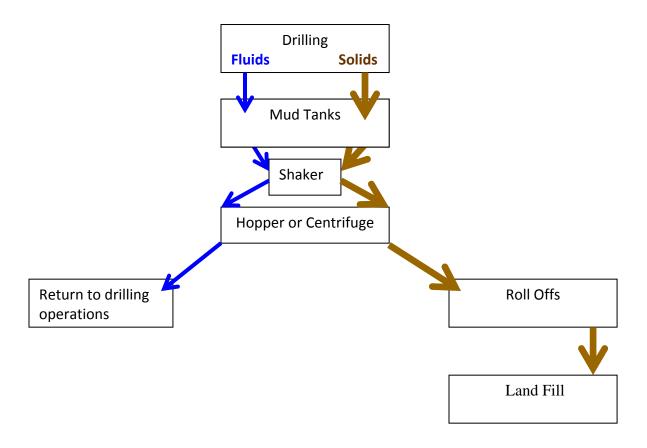
Hopper in air to settle out solids (2)

Water return pipe (3)

Shaker between hopper and mud tanks (4)

Roll offs on skids (5)

Flow Chart for Drilling Fluids and Solids



Photos Courtesy of Gandy Corporation Oil Field Service



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

Phone: (505) 629-6116
Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

CONDITIONS

Action 448858

CONDITIONS

Operator:	OGRID:
Silverback Operating II, LLC	330968
1001 W. Wilshire Blvd	Action Number:
Oklahoma City, OK 73112	448858
	Action Type:
	[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
bwood	Cement is required to circulate on both surface and intermediate1 strings of casing.	4/4/2025
bwood	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	4/4/2025
ward.rikala	Notify the OCD 24 hours prior to casing & cement.	5/16/2025
ward.rikala	File As Drilled C-102 and a directional Survey with C-104 completion packet.	5/16/2025
ward.rikala	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string.	5/16/2025
ward.rikala	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.	5/16/2025
ward.rikala	Administrative order required for non-standard location prior to production.	5/16/2025
ward.rikala	Administrative order required for non-standard spacing unit prior to production.	5/16/2025