		RE	CENED	•				
Form 3160-3 (June 2015) UNITE	D STATES	JAN	0 6 2020			FORM A OMB No. Expires: Jan	PPRO 1004- uary 3	VED 0137 1, 2018
DEPARTMENT BUREAU OF LA	OF THE INT	TERIOR	ARTESIAO	C.	.D.	5. Lease Serial No. NMNM019601		•
APPLICATION FOR PER	MIT TO DR	ILL OR I	REENTER			6. If Indian, Allotee c	r Tribe	Name
la. Type of work: 🖌 DRILL	REE	NTER				7. If Unit or CA Agre	ement,	Name and No.
1b. Type of Well: Oil Well 🗸 Gas	Well Othe	r				8. Lease Name and W	ell No	
Ic. Type of Completion: Hydraulic Fracturing	g 🖌 Sing	le Zone	Multiple Zon	e		GLADIATOR FED (сом з	502 W
2. Name of Operator RIDGE RUNNER RESOURCES OPERATING	LLC	-				9. API Well No. 30-0	15-	-46594
3a. Address 1004 N. Big Spring Street, Suite 325 Midland	31 TX 79701 (4	b. Phone N 432)684-78	o. <i>(include area</i> 377	cod	e)	10. Field and Pool, or WILDCAT WOLFCA	Explo MP	ratory
4. Location of Well (Report location clearly and in	accordance with	h any State	requirements,*)	Ī		11. Sec., T. R. M. or I	31k. an	d Survey or Area
At surface NWNW / 100 FNL / 330 FWL /	LAT 32.356197	71 / LONG	-104.0659097			SEC 35 / T22S / R2	8E / N	MP
At proposed prod. zone SWSW / 100 FSL / 3	330 FWL / LAT	32.32759	95 / LONG -10	4.06	657412			
 Distance in miles and direction from nearest toy 5 miles 	vn or post office	*			-	12. County or Parish EDDY		13. State NM
 15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig, unit line, if any) 	3	6. No of ac 20	res in lease		17. Spacin 639.17	ng Unit dedicated to th	s well	. •
 Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 30 feet 	· 1	9. Proposed 0410 feet	d Depth / 20570 feet		20. BLM/ FED: NN	/BIA Bond No. in file /B001616		
21. Elevations (Show whether DF, KDB, RT, GL, e 3080 feet	tc.) . 2	2. Approxi 3/01/2019	mate date work v	will	start*	23. Estimated duration 120 days	n	
	·······	24. Attac	hments	İ		_1		
The following, completed in accordance with the re (as applicable)	quirements of O	onshore Oil	and Gas Order N	10 <u>.</u> 1	I, and the H	lydraulic Fracturing ru	le per 4	43 CFR 3162.3-3
 Well plat certified by a registered surveyor. A Drilling Plan. 			4. Bond to cove Item 20 abov	er th /e).	e operation	ns unless covered by an	existin	g bond on file (see
3. A Surface Use Plan (if the location is on National SUPO must be filed with the appropriate Forest S	Forest System Service Office).	Lands, the	5. Operator cer 6. Such other si BLM.	tific te sp	cation. pecific infor	mation and/or plans as r	nay be	requested by the
25. Signature (Electronic Submission)		Name Brian	(Printed/Typed) Wood / Ph: (50	5)4	66-8120		Date 01/15/	2019
Title President ,								
Approved by <i>(Signature)</i> (Electronic Submission)		Name Bobby	(Printed/Typed) Ballard / Ph: (575	5)234-223	5	Date 10/18/	2019
Title Natural Resource Specialist		Office	SBAD		-			
Application approval does not warrant or certify tha applicant to conduct operations thereon. Conditions of approval, if any, are attached.	at the applicant h	olds legal o	or equitable title	to ti	hose rights	in the subject lease wh	ich wo	uld entitle the
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Se of the United States any false, fictitious or frauduler	ection 1212, mak nt statements or	te it a crime representati	e for any person lions as to any ma	knor atter	wingly and within its	willfully to make to ar jurisdiction.	iy depa	irtment or agency
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(Continued on page 2)

Approval Date: 10/18/2019

*(Instructions on page 2)

Ruf 1-15-2020

INSTRUCTIONS

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

ITEM I: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable Federal regulations concerning subsequent work proposals or reports on the well.

ITEM 4: Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local Federal offices for specific instructions.

ITEM 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on the reverse side, showing the roads to, and the surveyed location of, the wen, and any other required information, should be furnished when required by Federal agency offices.

ITEMS 15 AND 18: If well is to be, or has been directionany drilled, give distances for subsurface location of hole in any present or objective productive zone.

ITEM 22: Consult applicable Federal regulations, or appropriate officials, concerning approval of the proposal before operations are started.

ITEM 24: If the proposal will involve hydraulic fracturing operations, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

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

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

PRINCIPAL PURPOSES: The information will be used to: (1) process and evaluate your application for a permit to drill a new oil, gas, or service wen or to reenter a plugged and abandoned well; and (2) document, for administrative use, information for the management, disposal and use of National Resource Lands and resources including (a) analyzing your proposal to discover and extract the Federal or Indian resources encountered; (b) reviewing procedures and equipment and the projected impact on the land involved; and (c) evaluating the effects of the proposed operation on the surface and subsurface water and other environmental impacts.

ROUTINE USE: Information from the record and/or the record win be transferred to appropriate Federal, State, and local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecution, in connection with congressional inquiries and for regulatory responsibilities.

EFFECT OF NOT PROVIDING INFORMATION: Filing of this application and disclosure of the information is mandatory only if you elect to initiate a drilling or reentry operation on an oil and gas lease.

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

The BLM conects this information to anow evaluation of the technical, safety, and environmental factors involved with drilling for oil and/or gas on Federal and Indian oil and gas leases. This information will be used to analyze and approve applications. Response to this request is mandatory only if the operator elects to initiate drilling or reentry operations on an oil and gas lease. The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

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

(Continued on page 3)

Approval Date: 10/18/2019

(Form 3160-3, page 2)

A. CASING

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

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lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).

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

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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.

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PECOS DISTRICT SURFACE USE CONDITIONS OF APPROVAL

Gladiator Fed Com 3502 B 1H

Surface Hole Location: 100 ft. FNL and 360 ft. FWL; Section 35, T. 22 S., R. 28 E. Bottom Hole Location (at proposed production zone): 100 ft. FSL and 330 ft. FWL; Section 2, T. 23 S., R. 28 E.

Gladiator Fed Com 3502 B 2H

Surface Hole Location: 100 ft. FNL and 390 ft. FWL; Section 35, T. 22 S., R. 28 E. Bottom Hole Location (at proposed production zone): 100 ft. FSL and 1680 ft. FWL;

Section 2, T. 23 S., R. 28 E.

Gladiator Fed Com 3502 W 1H

Surface Hole Location: 100 ft. FNL and 330 ft. FWL; Section 35, T. 22 S., R. 28 E. Bottom Hole Location (at proposed production zone): 100 ft. FSL and 330 ft. FWL; Section 2, T. 23 S., R. 28 E.

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Standard Conditions of Approval (COA) apply to this APD. If any deviations to these standards exist or special COAs are required, the section with the deviation or requirement will be checked below.

General Provisions Permit Expiration	
Archaeology, Paleontology, and Historical Site Noxious Weeds	s
Special Requirements	
Hydrology	
Cave/Karst	
Special Status Plant Species Habitat	
Notification	
lopsoil Classed Lean Sustan	
Closed Loop System	
Vell Pade	
Roads	
Road Section Diagram	
Production (Post Drilling)	
Well Structures & Eacilities	
Interim Poelamation	
Final Abandonment 9 Declamation	
Final Abandonment & Reclamation	

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V. SPECIAL REQUIREMENT(S)

Cave and Karst Conditions of Approval for APDs

** Depending on location, additional Drilling, Casing, and Cementing procedures may be required by engineering to protect critical karst groundwater recharge areas.

Cave/Karst Surface Mitigation

The following stipulations will be applied to minimize impacts during construction, drilling and production:

Construction:

General Construction:

- No blasting
- The BLM, Carlsbad Field Office, will be informed immediately if any subsurface drainage channels, cave passages, or voids are penetrated during construction, and no additional construction shall occur until clearance has been issued by the Authorized Officer.
- All linear surface disturbance activities will avoid sinkholes and other karst features to lessen the possibility of encountering near surface voids during construction, minimize changes to runoff, and prevent untimely leaks and spills from entering the karst drainage system.
- All spills or leaks will be reported to the BLM immediately for their immediate and proper treatment.

Pad Construction:

- The pad will be constructed and leveled by adding the necessary fill and caliche no blasting.
- The entire perimeter of the well pad will be bermed to prevent oil, salt, and other chemical contaminants from leaving the well pad.
- The compacted berm shall be constructed at a minimum of 12 inches high with impermeable mineral material (e.g., caliche).
- No water flow from the uphill side(s) of the pad shall be allowed to enter the well pad.
- The topsoil stockpile shall be located outside the bermed well pad.
- Topsoil, either from the well pad or surrounding area, shall not be used to construct the berm.
- No storm drains, tubing or openings shall be placed in the berm.
- If fluid collects within the bermed area, the fluid must be vacuumed into a safe container and disposed of properly at a state approved facility.
- The integrity of the berm shall be maintained around the surfaced pad throughout the life of the well and around the downsized pad after interim reclamation has been completed.
- Any access road entering the well pad shall be constructed so that the integrity of the berm height surrounding the well pad is not compromised (i.e. an access road crossing the berm cannot be lower than the berm height).
- Following a rain event, all fluids will vacuumed off of the pad and hauled off-site and disposed at a proper disposal facility.

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Tank Battery Construction:

- The pad will be constructed and leveled by adding the necessary fill and caliche no blasting.
- All tank battery locations and facilities will be lined and bermed.
- The liner should be at least 20 mil in thickness and installed with a 4 oz. felt backing, or equivalent, to prevent tears or punctures.
- Tank battery berms must be large enough to contain 1 ½ times the content of the largest tank.

Road Construction:

- Turnout ditches and drainage leadoffs will not be constructed in such a manner as to alter the natural flow of water into or out of cave or karst features.
- Special restoration stipulations or realignment may be required if subsurface features are discovered during construction.

Buried Pipeline/Cable Construction:

 Rerouting of the buried line(s) may be required if a subsurface void is encountered during construction to minimize the potential subsidence/collapse of the feature(s) as well as the possibility of leaks/spills entering the karst drainage system.

Powerline Construction:

- Smaller powerlines will be routed around sinkholes and other karst features to avoid or lessen the possibility of encountering near surface voids and to minimize changes to runoff or possible leaks and spills from entering karst systems.
- Larger powerlines will adjust their pole spacing to avoid cave and karst features.
- Special restoration stipulations or realignment may be required if subsurface voids are encountered.

Surface Flowlines Installation:

• Flowlines will be routed around sinkholes and other karst features to minimize the possibility of leaks/spills from entering the karst drainage system.

Leak Detection System:

- A method of detecting leaks is required. The method could incorporate gauges to measure loss, situating values and lines so they can be visually inspected, or installing electronic sensors to alarm when a leak is present.
- A leak detection plan will be submitted to BLM that incorporates an automatic shut off system (see below) to minimize the effects of an undesirable event that could negatively sensitive cave/karst resources.
- Well heads, pipelines (surface and buried), storage tanks, and all supporting equipment should be monitored regularly after installation to promptly identify and fix leaks.

Automatic Shut-off Systems:

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 Automatic shut off, check values, or similar systems will be installed for pipelines and tanks to minimize the effects of catastrophic line failures used in production or drilling.

Cave/Karst Subsurface Mitigation

The following stipulations will be applied to protect cave/karst and groundwater concerns:

Closed Loop System:

- A closed loop system using steel tanks will be utilized during drilling no pits
- All fluids and cuttings will be hauled off-site and disposed of properly at an authorized site

Rotary Drilling with Fresh Water:

• Fresh water will be used as a circulating medium in zone's where caves or karst features are expected. SEE ALSO: Drilling COAs for this well.

Directional Drilling:

• The kick off point for directional drilling will occur at least 100 feet below the bottom of the cave occurrence zone. SEE ALSO: Drilling COAs for this well.

Lost Circulation:

- ALL lost circulation zones between surface and the base of the cave occurrence zone will be logged and reported in the drilling report.
- If a void of four feet or more and circulation losses greater than 70 percent occur simultaneously while drilling in any cave-bearing zone, regardless of the type of drilling machinery used, the BLM will be notified immediately by the operator. The BLM will assess the situation and work with the operator on corrective actions to resolve the problem.

Abandonment Cementing:

- Additional plugging conditions of approval may be required upon well abandonment in high and medium karst potential occurrence zones.
- The BLM will assess the situation and work with the operator to ensure proper plugging of the wellbore.

Pressure Testing:

- The operator will perform annual pressure monitoring on all casing annuli and reported in a sundry notice.
- If the test results indicated a casing failure has occurred, remedial action will be undertaken to correct the problem to the BLM's approval.
- The entire well pad(s) will be bermed to prevent oil, salt, and other chemical contaminants from leaving the well pad. The compacted berm shall be constructed at a minimum of 12 inches with impermeable mineral material (e.g. caliche). Topsoil shall not be used to construct the berm. No water flow from the uphill side(s) of the pad shall be allowed to enter the well pad. The integrity of the berm shall be maintained around the surfaced pad throughout the life of the well and around the downsized pad after interim reclamation has been completed. Any water erosion that may occur due to the construction of the well pad during the life of the well will be quickly corrected and proper measures will be taken to prevent future erosion. Stockpiling of topsoil is required. The top soil shall be stockpiled in an appropriate location to prevent loss of soil due to water or wind erosion and not used for berming or erosion control. If fluid collects within the

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bermed area, the fluid must be vacuumed into a safe container and disposed of properly at a state approved facility.

- Tank battery locations will be lined and bermed. A 20 mil permanent liner will be installed with a 4 oz. felt backing to prevent tears or punctures. Tank battery berms must be large enough to contain 1 ½ times the content of the largest tank or 24 hour production, whichever is greater. Automatic shut off, check valves, or similar systems will be installed for tanks to minimize the effects of catastrophic line failures used in production or drilling.
- When crossing ephemeral drainages the pipeline(s) will be buried to a minimum depth of 48 inches from the top of pipe to ground level. Erosion control methods such as gabions and/or rock aprons should be placed on both up and downstream sides of the pipeline crossing. In addition, curled (weed free) wood/straw fiber wattles/logs and/or silt fences should be placed on the downstream side for sediment control during construction and maintained until soils and vegetation have stabilized. Water bars should be placed within the ROW to divert and dissipate surface runoff. A pipeline access road is not permitted to cross these ephemeral drainages. Traffic should be diverted to a preexisting route. Additional seeding may be required in floodplains and drainages to restore energy dissipating vegetation.
- Prior to pipeline installation/construction a leak detection plan will be developed. The method(s) could incorporate gauges to detect pressure drops, situating valves and lines so they can be visually inspected periodically or installing electronic sensors to alarm when a leak is present. The leak detection plan will incorporate an automatic shut off system that will be installed for proposed pipelines to minimize the effects of an undesirable event.
- Any water erosion that may occur due to the construction of overhead electric line and during the life of the power line will be quickly corrected and proper measures will be taken to prevent future erosion. A power pole should not be placed in drainages, playas, wetlands, riparian areas, or floodplains and must span across the features at a distance away that would not promote further erosion.
- Temporary Fresh Water Frac Line(s): once the temporary use exceeds the timeline of 180 days and/or with a 90 day extension status; further analysis will be required if the applicant pursues to turn the temporary ROW into a permanent ROW.

Special Status Plant Species (SSPS) Habitat Stipualtions

- Vehicles and equipment will be kept on existing roads and approved surfaces only, and will avoid travel across undisturbed surfaces; workers will be instructed not to park off the roads or ROW in undisturbed areas.
- Alterations to project design and additions of project components will require SSPS surveys and re-analysis of impacts if those design project elements intersect SSPS suitable habitat.

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VI. CONSTRUCTION

A. NOTIFICATION

The BLM shall administer compliance and monitor construction of the access road and well pad. Notify the Carlsbad Field Office at (575) 234-5909 at least 3 working days prior to commencing construction of the access road and/or well pad.

When construction operations are being conducted on this well, the operator shall have the approved APD and Conditions of Approval (COA) on the well site and they shall be made available upon request by the Authorized Officer.

B. TOPSOIL

The operator shall strip the top portion of the soil (root zone) from the entire well pad area and stockpile the topsoil along the edge of the well pad as depicted in the APD. The root zone is typically six (6) inches in depth. All the stockpiled topsoil will be redistributed over the interim reclamation areas. Topsoil shall not be used for berming the pad or facilities. For final reclamation, the topsoil shall be spread over the entire pad area for seeding preparation.

Other subsoil (below six inches) stockpiles must be completely segregated from the topsoil stockpile. Large rocks or subsoil clods (not evident in the surrounding terrain) must be buried within the approved area for interim and final reclamation.

C. CLOSED LOOP SYSTEM

Tanks are required for drilling operations: No Pits.

The operator shall properly dispose of drilling contents at an authorized disposal site.

D. FEDERAL MINERAL MATERIALS PIT

Payment shall be made to the BLM prior to removal of any federal mineral materials. Call the Carlsbad Field Office at (575) 234-5972.

E. WELL PAD SURFACING

Surfacing of the well pad is not required.

If the operator elects to surface the well pad, the surfacing material may be required to be removed at the time of reclamation. The well pad shall be constructed in a manner which creates the smallest possible surface disturbance, consistent with safety and operational needs.

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F. EXCLOSURE FENCING (CELLARS & PITS)

Exclosure Fencing

The operator will install and maintain exclosure fencing for all open well cellars to prevent access to public, livestock, and large forms of wildlife before and after drilling operations until the pit is free of fluids and the operator initiates backfilling. (For examples of exclosure fencing design, refer to BLM's Oil and Gas Gold Book, Exclosure Fence Illustrations, Figure 1, Page 18.)

G. ON LEASE ACCESS ROADS

Road Width

The access road shall have a driving surface that creates the smallest possible surface disturbance and does not exceed fourteen (14) feet in width. The maximum width of surface disturbance, when constructing the access road, shall not exceed twenty-five (25) feet.

Surfacing

Surfacing material is not required on the new access road driving surface. If the operator elects to surface the new access road or pad, the surfacing material may be required to be removed at the time of reclamation.

Where possible, no improvements should be made on the unsurfaced access road other than to remove vegetation as necessary, road irregularities, safety issues, or to fill low areas that may sustain standing water.

The Authorized Officer reserves the right to require surfacing of any portion of the access road at any time deemed necessary. Surfacing may be required in the event the road deteriorates, erodes, road traffic increases, or it is determined to be beneficial for future field development. The surfacing depth and type of material will be determined at the time of notification.

Crowning

Crowning shall be done on the access road driving surface. The road crown shall have a grade of approximately 2% (i.e., a 1" crown on a 14' wide road). The road shall conform to Figure 1; cross section and plans for typical road construction.

Ditching

Ditching shall be required on both sides of the road.

Turnouts

Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

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Drainage

Drainage control systems shall be constructed on the entire length of road (e.g. ditches, sidehill outsloping and insloping, lead-off ditches, culvert installation, and low water crossings).

A typical lead-off ditch has a minimum depth of 1 foot below and a berm of 6 inches above natural ground level. The berm shall be on the down-slope side of the lead-off ditch.

Cross Section of a Typical Lead⁺off Ditch



All lead-off ditches shall be graded to drain water with a 1 percent minimum to 3 percent maximum ditch slope. The spacing interval are variable for lead-off ditches and shall be determined according to the formula for spacing intervals of lead-off ditches, but may be amended depending upon existing soil types and centerline road slope (in %);

Formula for Spacing Interval of Lead-off Ditches

Example - On a 4% road slope that is 400 feet long, the water flow shall drain water into a lead-off ditch. Spacing interval shall be determined by the following formula:

400 foot road with 4% road slope: 400' + 100' = 200' lead-off ditch interval 4%

Cattle guards

An appropriately sized cattle guard sufficient to carry out the project shall be installed and maintained at fence/road crossings. Any existing cattle guards on the access road route shall be repaired or replaced if they are damaged or have deteriorated beyond practical use. The operator shall be responsible for the condition of the existing cattle guards that are in place and are utilized during lease operations.

Fence Requirement

Where entry is granted across a fence line, the fence shall be braced and tied off on both sides of the passageway prior to cutting. The operator shall notify the private surface landowner or the grazing allotment holder prior to crossing any fences.

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Public Access

Public access on this road shall not be restricted by the operator without specific written approval granted by the Authorized Officer.

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VII. PRODUCTION (POST DRILLING)

A. WELL STRUCTURES & FACILITIES

Placement of Production Facilities

Production facilities should be placed on the well pad to allow for maximum interim recontouring and revegetation of the well location.

Exclosure Netting (Open-top Tanks)

Immediately following active drilling or completion operations, the operator will take actions necessary to prevent wildlife and livestock access, including avian wildlife, to all open-topped tanks that contain or have the potential to contain salinity sufficient to cause harm to wildlife or livestock, hydrocarbons, or Resource Conservation and Recovery Act of 1976-exempt hazardous substances. At a minimum, the operator will net, screen, or cover open-topped tanks to exclude wildlife and livestock and prevent mortality. If the operator uses netting, the operator will cover and secure the open portion of the tank to prevent wildlife entry. The operator will net, screen, or cover the tanks until the operator removes the tanks from the location or the tanks no longer contain substances that could be harmful to wildlife or livestock. Use a maximum netting mesh size of 1 $\frac{1}{2}$ inches. The netting must not be in contact with fluids and must not have holes or gaps.

Chemical and Fuel Secondary Containment and Exclosure Screening

The operator will prevent all hazardous, poisonous, flammable, and toxic substances from coming into contact with soil and water. At a minimum, the operator will install and maintain an impervious secondary containment system for any tank or barrel containing hazardous, poisonous, flammable, or toxic substances sufficient to contain the contents of the tank or barrel and any drips, leaks, and anticipated precipitation. The operator will dispose of fluids within the containment system that do not meet applicable state or U. S. Environmental Protection Agency livestock water standards in accordance with state law; the operator must not drain the fluids to the soil or ground. The operator will design, construct, and maintain all secondary containment systems to prevent wildlife and livestock exclosure systems such as fencing, netting, expanded metal mesh, lids, and grate covers. Use a maximum netting mesh size of 1 ½ inches.

Open-Vent Exhaust Stack Exclosures

The operator will construct, modify, equip, and maintain all open-vent exhaust stacks on production equipment to prevent birds and bats from entering, and to discourage perching, roosting, and nesting. (*Recommended exclosure structures on open-vent exhaust stacks are in the shape of a cone.*) Production

Page 13 of 16

equipment includes, but may not be limited to, tanks, heater-treaters, separators, dehydrators, flare stacks, in-line units, and compressor mufflers.

Containment Structures

Proposed production facilities such as storage tanks and other vessels will have a secondary containment structure that is constructed to hold the capacity of 1.5 times the largest tank, plus freeboard to account for precipitation, unless more stringent protective requirements are deemed necessary.

Painting Requirement

All above-ground structures including meter housing that are not subject to safety requirements shall be painted a flat non-reflective paint color, **Shale Green** from the BLM Standard Environmental Color Chart (CC-001: June 2008).

VIII. INTERIM RECLAMATION

During the life of the development, all disturbed areas not needed for active support of production operations should undergo interim reclamation in order to minimize the environmental impacts of development on other resources and uses.

Within six (6) months of well completion, operators should work with BLM surface management specialists (Jim Amos: 575-234-5909) to devise the best strategies to reduce the size of the location. Interim reclamation should allow for remedial well operations, as well as safe and efficient removal of oil and gas.

During reclamation, the removal of caliche is important to increasing the success of revegetating the site. Removed caliche that is free of contaminants may be used for road repairs, fire walls or for building other roads and locations. In order to operate the well or complete workover operations, it may be necessary to drive, park and operate on restored interim vegetation within the previously disturbed area. Disturbing revegetated areas for production or workover operations will be allowed. If there is significant disturbance and loss of vegetation, the area will need to be revegetated. Communicate with the appropriate BLM office for any exceptions/exemptions if needed.

All disturbed areas after they have been satisfactorily prepared need to be reseeded with the seed mixture provided below.

Upon completion of interim reclamation, the operator shall submit a Sundry Notices and Reports on Wells, Subsequent Report of Reclamation (Form 3160-5).

IX. FINAL ABANDONMENT & RECLAMATION

Page 14 of 16

At final abandonment, well locations, production facilities, and access roads must undergo "final" reclamation so that the character and productivity of the land are restored.

Earthwork for final reclamation must be completed within six (6) months of well plugging. All pads, pits, facility locations and roads must be reclaimed to a satisfactory revegetated, safe, and stable condition, unless an agreement is made with the landowner or BLM to keep the road and/or pad intact.

After all disturbed areas have been satisfactorily prepared, these areas need to be revegetated with the seed mixture provided below. Seeding should be accomplished by drilling on the contour whenever practical or by other approved methods. Seeding may need to be repeated until revegetation is successful, as determined by the BLM.

Operators shall contact a BLM surface protection specialist prior to surface abandonment operations for site specific objectives (Jim Amos: 575-234-5909).

Page 15 of 16

Seed Mixture 2, for Sandy Sites

The holder shall seed all disturbed areas with the seed mixture listed below. The seed mixture shall be planted in the amounts specified in pounds of pure live seed (PLS)* per acre. There shall be <u>no</u> primary or secondary noxious weeds in the seed mixture. Seed will be tested and the viability testing of seed will be done in accordance with State law (s) and within nine (9) months prior to purchase. Commercial seed will be either certified or registered seed. The seed container will be tagged in accordance with State law(s) and available for inspection by the authorized officer.

Seed will be planted using a drill equipped with a depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture will be evenly and uniformly planted over the disturbed area (smaller/heavier seeds have a tendency to drop the bottom of the drill and are planted first). The holder shall take appropriate measures to ensure this does not occur. Where drilling is not possible, seed will be broadcast and the area shall be raked or chained to cover the seed. <u>When broadcasting the seed</u>, the pounds per acre are to be <u>doubled</u>. The seeding will be repeated until a satisfactory stand is established as determined by the authorized officer. Evaluation of growth will not be made before completion of at least one full growing season after seeding.

Species to be planted in pounds of pure live seed* per acre:

Species	l <u>b/acre</u>
Sand dropseed (Sporobolus cryptandrus)	1.0
Sand love grass (Eragrostis trichodes)	1.0
Plains bristlegrass (Setaria macrostachya)	2.0

*Pounds of pure live seed:

Pounds of seed x percent purity x percent germination = pounds pure live seed

Page 16 of 16

FMSS

Operator Certification Data Report

11/04/2019

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

Operator Certification

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are

NAME: Brian Wood		Signed on: 01/15/2019
Title: President		
Street Address: 37 Verano Loope		
City: Santa Fe	State: NM	Zip: 87508
Phone: (505)466-8120		
Email address: afmss@permitswe	est.com	
Field Representative	· .	
Street Address:		
City:	State:	Zip:
Phone:		
Email address:		

WAFMSS

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

Application Data Report

APD ID: 10400037979	Submission [Pate: 01/15/2019	Highlighted data
Operator Name: RIDGE RUNNER RESOURC	CES OPERATING LLC		reflects the most
Well Name: GLADIATOR FED COM 3502 W	Well Number:	: 1H	recent changes
Well Type: CONVENTIONAL GAS WELL	Well Work Ty	pe: Drill	
	· ·		
Section 1 - General	ž.		
APD ID: 10400037979	Tie to previous NOS? N	Submission	n Date: 01/15/2019
BLM Office: CARLSBAD	User: Brian Wood	Title: President	
Federal/Indian APD: FED	Is the first lease penetrated	d for production Federal or	· Indian? FED
Lease number: NMNM019601	Lease Acres: 320		
Surface access agreement in place?	Allotted?	Reservation:	
Agreement in place? NO	Federal or Indian agreeme	nt:	
Agreement number:	`		
Agreement name:			
Keep application confidential? NO			
Permitting Agent? YES	APD Operator: RIDGE RUN	NER RESOURCES OPERA	TING LLC
Operator letter of designation:			
	500 C		
Operator Info			
Operator Organization Name: RIDGE RUNN	ER RESOURCES OPERATIN	IG LLC	
Operator Address: 1004 N. Big Spring Street	, Suite 325	7 in: 70701	
Operator PO Box:		Zip: 79701	·
Operator City: Midland State: T	X		
Operator Phone: (432)684-7877			
Operator Internet Address:			
Section 2 - Well Informati	ion		
Well in Master Development Plan? NO	Master Developm	ent Plan name:	
Well in Master SUPO? NO	Master SUPO nan	ne:	
Well in Master Drilling Plan? NO	Master Drilling Pl	an name:	
Well Name: GLADIATOR FED COM 3502 W	Well Number: 1H	Well API Nu	mber:
Field/Pool or Exploratory? Field and Pool	Field Name: WILD WOLFCAMP	CAT Pool Name:	

operator name. Ribble Ronner Recorded of Ervining EEG	Operator Name:	RIDGE RUNNER	RESOURCES	OPERATING	LLC
---	-----------------------	--------------	-----------	-----------	-----

Well Name: GLADIATOR FED COM 3502 W

٠,

KOP

Leg

PPP

Leg

#1

#1

100

132

0

FNL

FNL 330

330

FWL 22S 28E 35

FWL 23S 28E 2

Well Number: 1H

Is the proposed well in an area containing other mineral resources? USEABLE WATER

Is the	e prop	osed	well i	n a H	elium	prod	uctio	n area?	N Use E	Existing W	ell F	ad	1? NO	Ne	w s	surface c	listurk	bance	?
Туре	of W	ell Pa	d: MU	LTIPL	.E WE	LL			Multip	ole Well Pa	ad N	lar	ne:	Nu	ımt	ber: 1H			
Well	Class	: HOF	RIZON	ITAL					GLAD Numb	DIATOR FE	D C s: 1	0	M 3502	W					
Well	Work	Туре	: Drill																
Well	Туре:	CON	VENT	IONA	L GAS	S WEL	.L												
Desc	ribe V	Vell T	ype:																
Well	sub-T	ype:	INFILI	-															
Desc	ribe s	ub-ty	pe:									,							
Dista	nce t	o tow	n: 5 M	liles			Dist	tance to	nearest v	vell: 30 FT			Dist	ance t	o le	ase line:	100 F	T	
Rese	rvoir	well s	pacin	ig ass	igned	l acre	s Mea	asurem	ent: 639.1	7 Acres									
Well	plat:	Gla	adiato	r_1H_	Plat_0	GasCa	ap_Pla	an_2019	901141413	51.pdf									
Well	work	start	Date:	03/01	/2019				Durat	ion: 120 E	AYS	s							
17.43 19.74 19.36		জন্মকেল	1.1.4.4	Service and the service of the servi	- 10 T	tutua e	09 C.M.S.		লগ্য লগ্য										
	Sec	tion	3 - V	Vell	Loca	ition	Tat	ole										•	
Surve	еу Тур	be: RE	ECTA	NGUL	AR				-										
Desc	ribe S	urvey	/ Type	: :															
Datu	m: NA	D83							Vertic	al Datum:	NA	VC	88						
Surve	ey nui	nber:	1003	4					Refer	ence Datu	m:								
													1			-			
Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD
SHL Leg #1	100	FNL	330	FWL	225	28E	35	NWN	32.35619 71	- 104.0659 097	ED Y	D	NEW MEXI	NEW MEXI	F	NMNM 019601	308 0	0	0

32.35619 -

32.33835 -

71

2

NWN

SWN

EDD

EDD

104.0659 Y

104.0657 Y

097

96

NEW NEW F

NEW NEW S

MEXI MEXI

MEXI MEXI

NMNM

STATE

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019601 675

Page 2 of 3

983

166

70

7

983

104

10

7

Will this well produce

Operator Name: RIDGE RUNNER RESOURCES OPERATING LLC.

Well Name: GLADIATOR FED COM 3502 W

Well Number: 1H

1

							-												
Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD	Will this well produce
PPP	0	FNL	330	FWL	23S	28E	2	-	32.34198	-	EDD	NEW	NEW	s	STATE	-	157	104	
Leg								NWN	5	104.0658	Y	MEXI	MEXI			733	30	10	
#1										13						0			
PPP	100	FNL	330	FWL	22S	28E	35		32.35619	-	EDD	NEW	NEW	F	NMNM		955	955	
Leg								NWN	71	104.0659	Y	MEXI	MEXI		019601	647	0	0	
#1										097						0			
EXIT	100	FSL	330	FWL	235	28E	2		32.32759	-	EDD	NEW	NEW	F	FEE	-	205	104	
Leg								SWS	95	104.0657	Y	MEXI	MEXI			733	70	10	
#1										412						0			
BHL	100	FSL	330	FWL	23S	28E	2		32.32759		EDD	NEW	NEW	F	FEE		205	104	
Leg			·					SWS	95	104.0657	Y	MEXI	MEXI			733	70	10	
#1										412						0			

AFMSS

Drilling Plan Data Report

11/04/2019

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

 APD ID: 10400037979
 Submission Date: 01/15/2019
 Highlighted data

 Operator Name: RIDGE RUNNER RESOURCES OPERATING LLC
 reflects the most

 Well Name: GLADIATOR FED COM 3502 W
 Well Number: 1H
 Show Final Text

 Well Type: CONVENTIONAL GAS WELL
 Well Work Type: Drill
 Show Final Text

Section 1 - Geologic Formations

Formation			True Vertical	Measured			Producing
st ID ou	Formation Name	Elevation	Depth	Depth	Lithologies	Mineral Resources	Formation
1	QUATERNARY	3080	0 ·	0.	OTHER : Caliche	USEABLE WATER	N
2	RUSTLER ANHYDRITE	2830	250	250		OTHER : Brackish water	N
3	TOP SALT	2600	480	480		NONE	N
4	DELAWARE LIME	380	2700	2700		NONE	N
5	BELL CANYON	355	2725	2725	SANDSTONE	NATURAL GAS,OIL	N
6	CHERRY CANYON	-750	3830	3830	SANDSTONE	NATURAL GAS,OIL	N
7	BRUSHY CANYON	-1770	4850	4850	SANDSTONE	NATURAL GAS, OIL	N
8	BONE SPRING LIME	-3165	6245	6245		NATURAL GAS,OIL	N
9	BONE SPRING 1ST	-4175	7255	7255	SANDSTONE	NATURAL GAS,OIL	N
10	BONE SPRING 2ND	-5030	8110	8110	SANDSTONE	NATURAL GAS, OIL	N
11	BONE SPRING 3RD	-5645	8725	8725	OTHER : Carbonate	NATURAL GAS,OIL	N
12	BONE SPRING 3RD	-6150	9230	9230	SANDSTONE	NATURAL GAS,OIL	N
13	·WOLFCAMP	-6470	9550	9550	OTHER : Carbonate	NATURAL GAS, OIL	Y

Section 2 - Blowout Prevention

Operator Name: RIDGE RUNNER RESOURCES OPERATING LLC

Well Name: GLADIATOR FED COM 3502 W

Well Number: 1H

Pressure Rating (PSI): 5M

Rating Depth: 12000

Equipment: A 5000 psi BOP system will be installed. Top drive will have an IBOP in lieu of Kelly cocks. A floor safety valve (i. e., TIW valve) will be available when tripping. Requesting Variance? YES

Variance request: In the event a walking rig is used, a variance is requested to use a flexible choke line with flanged ends between the BOP and choke manifold. The line will be kept as straight as possible with minimal turns. Actual specifications and certification will be provided via Sundry Notice if this option is exercised. A variance is requested to use a 13.625" 5000 psi multi-bowl wellhead. When the BOP is initially installed after running the 13.375" (surface) casing, it will be tested to the 5M test pressure of the 8.5" interval. The 9.625" (intermediate) casing will be run with a mandrel hanger and without breaking any connections on the BOP. Thus, not requiring an additional BOP test. Rig contract has not been let due to uncertainty regarding APD approval date. A typical 5M BOP stack and choke are attached. Rig specific diagrams will be provided via Sundry Notice once the rig contract is signed.

Testing Procedure: A 5000 psi BOP system will be installed and tested to 3000 psi parameters before drilling the intermediate hole. Annular will be tested to 1500 psi. Double (pipe and blind) ram BOP will be tested to 3000 psi. This is based on: 9735' TVD x 10 ppg mud x 0.052 = 5062 psi – 9735' x 0.22 psi/ft = 2142 psi 2920 psi The installed 5000 psi. BOP system will be tested to 5000 psi parameters before drilling the production hole. Annular will be tested to 2500 psi. Double (pipe and blind) ram BOP will be tested to 5000 psi. Double (pipe and blind) ram BOP will be tested to 5000 psi. Since a non-tapered drill string will be used, a double ram preventer is adequate. This is based on: 10410' TVD x 12.8 ppg mud x 0.052 = 6929 psi – 10410' x 0.22 psi/ft = 2288 psi 4641 psi BOPE will be tested by an independent service company to 250 psi low and the high pressures stated above as required by Onshore Order 2. The system may be upgraded to a higher pressure, but will still be tested to the pressures stated above. Pipe rams will be functioned daily. Blind rams will be functioned on each trip when out of the hole. Annular will be functioned weekly. BOP will be tested on initial installation, whenever a seal is broken, following repairs, or every 30 days.

Choke Diagram Attachment:

Gladiator_1H_Choke_20190114144000.pdf

BOP Diagram Attachment:

Gladiator_1H_BOP_20190114144009.pdf

Section 3 - Casing

asing ID	tring Type	lole Size	sg Size	ondition	tandard	apered String	op Set MD	ottom Set MD	op Set TVD	ottom Set TVD	op Set MSL	ottom Set MSL	alculated casing	irade	Veight	oint Type	ollapse SF	urst SF	oint SF Type	oint SF	ody SF Type	ody SF
0	S	I	0	0	S	⊢	 -	B	Η	B	$ \vdash$	6	0	0	5	<u>ت</u>	O	В	۔ ح	<u>ح</u>	ш	
1	SURFACE	17.5	13.375	NEW	API	N	0	450	0	450	3080		450	J-55	54.5	ST&C	5.37	12.9 6	DRY	24.3	DRY	24.3
2	PRODUCTI ON	8.5	7.0	NEW	API	Y	0	9700	0	9700	3080 '		9700	OTH ER	26	OTHER - CDC	1.17	1.54	DRY	2.3	DRY	2.3
3	INTERMED IATE	12.2 5	9.625	NEW	API	N	0	9735	0	9735	3080		9735	OTH ER	47	BUTT	1.13 4	1.36	DRY	2.89	DRY	2.89

Operator Name: RIDGE RUNNER RESOURCES OPERATING LLC

Well Name: GLADIATOR FED COM 3502 W

Well Number: 1H

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	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
4	PRODUCTI ON	8.5	5.5	NEW	API	Y	9700	20570	9700	10410			10870) P- 110	20	OTHER - CDC	1.6	1.79	DRY	3.98	DRY	3.98
Cas	ing Attac	hme	nts																			
	Casing ID Inspectio): 1 n Do	ocume	nt:	Strir	ng Ty	/pe:S	URFA	CE													
	Spec Doc	ume	ent:										,									

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Gladiator_1H_Casing_Design_Assumptions_20190114144751.pdf

Casing ID: 2 String Type: PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Gladiator_1H_7in_Casing_Spec_20190114144402.pdf

Casing Design Assumptions and Worksheet(s):

Gladiator_1H_Casing_Design_Assumptions_20190114144759.pdf

erator Name: RIDGE RUNNER RESOURCES OPERATING LLC Il Name: GLADIATOR FED COM 3502 W Well Number:	1H
sing Attachments	-
Casing ID: 3 String Type: INTERMEDIATE Inspection Document:	
Spec Document:	
Tapered String Spec:	
Casing Design Assumptions and Worksheet(s): Gladiator_1H_Casing_Design_Assumptions_20190114144808.pdf	
Casing ID: 4 String Type:PRODUCTION Inspection Document:	
Spec Document:	
Tapered String Spec:	
Gladiator_1H_5.5in_Casing_Spec_20190114144518.pdf Casing Design Assumptions and Worksheet(s):	
Gladiator_1H_Casing_Design_Assumptions_20190114144817.pdf	

Section	4 - Ce	emen									
String Type	Lead/Tail	Stage Tool	Top MD	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	×	9235	9700	2320	1.27	14.2	2946	15	50/50/2 Poz/G/gel	Additives
PRODUCTION	Lead		0	0	0	0	0	0	0	None	None
PRODUCTION	Tail		9235	2057 0	2320	1.27	14.2	2946	15	50/50/2 Poz/G/gel	Additives
SURFACE	Lead		0	450	0	0	0	0	0	None	None

Operator Name: RIDGE RUNNER RESOURCES OPERATING LLC . Well Name: GLADIATOR FED COM 3502 W Well Number: 1H

String Type	Lead/Tail	Stage Tool	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Tail		0	450	465	1.34	14.8	<u></u> 623	100	Class C	2% CaCl
INTERMEDIATE	Lead	2700	0	2700	640	2.19	12.7	1401	100	Class C	6% gel + 5% salt + additives
INTERMEDIATE	Tail		0	2700	135	1.32	14.8	178	100	Class C	None
INTERMEDIATE	Lead	2700	2700	9735	1235	2.5	11.3	3087	50	TXI Light	5% salt + 4% SMS + additives
INTERMEDIATE	Tail		2700	9735	200	1.19	15.6	238	50	Class H	Additives

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: All necessary additives (e.g., barite, bentonite, LCM) to maintain mud quality and satisfy lost circulation and weight increase needs will be on site at all times. Mud program may change due to hole conditions.

Describe the mud monitoring system utilized: An electronic pit volume totalizer will monitor volume, flow rate, pump pressure, and stroke rate.

Circulating Medium Table

		······		· · · · ·						r	
Top Depth	Bottom Depth	Mud Type	Min Weight (Ibs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (Ibs/100 sqft)	НА	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	450	OTHER : Fresh water spud mud	8.4	9							
450	9735	OTHER : Brine water	10	10							
9735	2057 0	OIL-BASED MUD	12.8	12.8							

Operator Name: RIDGE RUNNER RESOURCES OPERATING LLC

Well Name: GLADIATOR FED COM 3502 W

Well Number: 1H

Section 6 - Test, Logging, Coring

List of production tests including testing procedures, equipment and safety measures: None

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

OTH

Other log type(s):

None

Coring operation description for the well:

No core, drill stem test, or log is planned.

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 6930

Anticipated Surface Pressure: 4639.8

Anticipated Bottom Hole Temperature(F): 158

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

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards attachment:

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations plan:

Gladiator_1H_H2S_Plan_20190114145329.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Gladiator_1H_Horiztonal_Drill_Plan_20190114145345.pdf

Other proposed operations facets description:

Other proposed operations facets attachment:

Gladiator_1H_Drill_Plan_20190114145659.pdf Gladiator_1H_CoFlex_Certs_20190715153336.pdf

Other Variance attachment:

Gladiator_1H_Variance_Request_20190114145635.pdf

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<u>Ridge Runner Resources Operating, LLC</u> <u>Gladiator Fed Com 3502</u> <u>SHL 35-22s-28e Eddy County, NM</u> <u>H₂S Drilling Operations Plan</u>

- a. All personnel will be trained in H_2S working conditions as required by Onshore Order 6 before drilling out of the surface casing.
- b. Two briefing areas will be established. Each will be at least 150' from the wellhead, perpendicular from one another, and easily entered and exited. See H₂S page 5 for more details.
- c. H₂S Safety Equipment/Systems:
 - i. Well Control Equipment
 - Flare line will be \geq 150' from the wellhead and ignited by a pilot light.
 - Beware of SO₂ created by flaring.
 - Choke manifold will include a remotely operated choke.
 - Mud gas separator
 - ii. Protective Equipment for Essential Personnel
 - Every person on site will be required to wear a personal H_2S and SO_2 , monitor at all times while on site. Monitors will not be worn on hard hats. Monitors will be worn on the front of the chest.
 - One self-contained breathing apparatus (\$CBA) 30-minute rescue pack will be at each briefing area. Two 30-minute SCBA packs will be stored in the safety trailer.
 - Four work/escape packs will be on the rig floor. Each pack will have a long enough hose to allow unimpaired work activity.
 - Four emergency escape packs will be in the doghouse for emergency evacuation.
 - Hand signals will be used when wearing protective breathing apparatus.
 - Stokes litter or stretcher

1

- Two full OSHA compliant body harnesses
- A 100-foot long x 5/8" OSHA compliant rope

- One 20-pound ABC fire extinguisher

- iii. H₂S Detection & Monitoring Equipment.
- Every person on site will be required to wear a personal H_2S and SO_2 monitor at all times while on site. Monitors will not be worn on hard hats. Monitors will be worn on the front of the chest.
- A stationary detector with three sensors will be in the doghouse.
- Sensors will be installed on the rig floor, bell nipple, and at the end of the flow line or where drilling fluids are discharged.
- Visual alarm will be triggered at 10 ppm.
- Audible alarm will be triggered at 10 ppm.
- Calibration will occur at least every 30 days. Gas sample tubes will be kept in the safety trailer.
- iv. Visual Warning System
- Color-coded H₂S condition sign will be set at the entrance to the pad.
- Color-coded condition flag will be installed to indicate current H_2S conditions.
- Two wind socks will be installed that will be visible from all sides.
 - 1. . 1.

v. Mud Program

- A water based mud with a pH of ≥ 10 will be maintained to control corrosion, H₂S gas returns to the surface, and minimize sulfide stress cracking and embrittlement.
- Drilling mud containing H_2S gas will be degassed at an optimum location for the rig configuration.
- This gas will be piped into the flare system.
- Enough mud additives will be on location to scavenge and/or neutralize H₂S where formation pressures are unknown.

vi. Metallurgy

- All equipment that has the potential to be exposed to H₂S will be suitable for H₂S service.
- Equipment that will meet these metallurgical standards include the drill string, casing, wellhead, BOP assembly, casing head and spool, rotating head, kill lines, choke, choke manifold and lines, valves, mud-gas separators, DST tools, test units, tubing, flanges, and other related equipment (elastomer packings and seals).
- vii. Communication from well site
- Cell phones and/or two-way radios will be used to communicate from the well site.

2

d. A remote-controlled choke, mud-gas separator, and a rotating head will be installed before drilling or testing any formation expected to contain H_2S .

Company Personnel to be Notified

Ridge Runner's Midland, TX Office

Kelvin Fisher, Chief Operating Officer

Gary Moreau, Production Foreman

Local & County Agencies Loving Fire Department Eddy County Sheriff (Carlsbad) Eddy County Emergency Management (Carlsbad) Carlsbad Medical Center Hospital Eddy County South Road Department (Carlsbad)

State Agencies NM State Police (Carlsbad) NM Oil Conservation (Artesia) NM Oil Conservation (Santa Fe) NM Dept. of Transportation (Roswell) Office: (432) 684-7877 In emergency, push # Office: (432) 684-7877 Mobile: (432)634-5621 (575) 631-5643

911 or (575) 745-3600 911 (575) 887-7551 (575) 887-9511 (575) 887-4100 (575) 885-4835

(575) 885-3138
(575) 748-1283
(505) 476-3440
(575) 637-7201

3

<u>Federal Agencies</u> BLM Carlsbad Field Office National Response Center US EPA Region 6 (Dallas)

Residents within 1 mile

none

Air Evacuation

Med Flight Air Ambulance (Albuquerque) Lifeguard (Albuquerque)

<u>Veterinarians</u>

Desert Willow Veterinary Services (Carlsbad)

Animal Care Center (Carlsbad)

4

(575) 234-5972
(800) 424-8802
(800) 887-6063
(214) 665-6444

(800) 842-4431 (888) 866-7256

(575) 885-3399 (575) 885-5352






Ridge Runner Resources Eddy County, NM (NAD83) Gladiator Fed Com Gladiator Fed Com 3502W 1H

Wellbore #1

۴

Plan: plan1

Standard Planning Report

21 December, 2018



RR RIDGE RU	NNER	Planning Report		
Database: EDM Company: Ridge Project: Eddy Site: Gladi Well: Gladi Wellbore: Wellb Design: Jpan1	5000.14 Single User Db Runner Resources County, NM (NAD83) ator-Fed Com ator Fed Com 3502W 1H ore #1	Local Co-ordinate Re TVD Reference: MD Reference: North Reference: Survey Calculation M	Merence: GL 3080' + 30' KB GL 3080' + 30' KB GL 3080' + 30' KB Grid ethod: Minimum Curvature	Com 3502W 1H @ 3110.000sft (Rig TBD) @ 3110.00usft (Rig TBD)
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		anan dara manan kanan kana Kanan kanan kana		
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12/21/18 12 56:01PM		Page;2	<u>نې زېږې د د د د د د د د د د د د د د د د د د </u>	MPASS 5000 14 Build 85



Database

Company:

Project:

Site:

Wellböre:

Design:

Well:

Planning Report



EDM 5000.14 Single User Db Ridge Runner Resources Eddy County, NM (NAD83) Gladiator Fed Com Gladiator Fed Com 3502W 1H Wellbore #1 plan1 Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method:

Well Gladiator Fed Com 3502W 1H GL 3080' + 30' KB @ 3110:00ush (Rig TBD) GL 3080' + 30' KB @ 3110:00ush (Rig TBD) Grid Minimum Curvature

Planned Survey Measured Vertical Vertical Dogleg Build Turn Depth Inclination Azimuth Depth +N/-S +E/-W Section. Rate Rate Rate (usft) (usft) (usft) (usft) (Usft) (*/100usft) ((*/100usft) (%/100usft)) 0.00 0.00 0:00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 100.00 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 0.00 0.00 600.00 0.00 0.00 0.00 0.00 0.00 0.00 700.00 0.00 0.00 700.00 0:00 0.00 0.00 0.00 0.00 0.00 800 00 0.00 0.00 800.00 0.00 0.00 0.00 0.00 0'00 0.00 900.00 0.00 0.00 900.00 10.00 0.00 0.00 0.00 0.00 0.00 1.000.00 0.00 0.00 1,000.00 0.00 0:00 0.00 0:00 0.00 0.00 1,100.00 0.00 0.00 1,100.00 0.00 0:00 0.00 0.00 0.00 0.00 1,200.00 0.00 0.00 1.200.00 0.00 0.00 0.00 0.00 0.00 :0.00 1,300.00 0.00 0:00 1,300.00 0.00 0.00 0.00 0.00 0.00 0.00 1,400.00 0.00 :0:00 1,400.00 0.00 0.00 0.00 0.00 0.00 0.00 1,500.00 0.00 0.00 1,500.00 0.00 0.00 0:00 0.00 0.00 0.00 1,600.00 0.00 0.00 1,600:00 0.00 0.00 0.00 0.00 0.00 0.00 1,700.00 0.00 0 00 0.00 0.00 0.00 0.00 0:00 0.00 1,800.00 0.00 0.00 1,800.00 0.00 0:00 0.00 0.00 0.00 0.00 1,900.00 0.00 0.00 1,900.00 0.00 0.00 0.00 0.00 0.00 0.00 2,000.00 0.00 0:00 2,000.00 0.00 0.00 0:00 0.00 0.00 0.00 2,100.00 0.00 10.00 2,100.00 0.00 0.00 0.00 0.00 0.00 0.00 2,200.00 0.00 0.00 2,200.00 0.00 0.00 0.00 0.00 0.00 0.00 2 300 00 0.00 0.00 2,300.00 0.00 0.00 0.00 0.00 0.00 0.00 2,400.00 :0.00 0.00 2,400.00 0.00 0.00 0.00 0.00 0.00 0.00 2 500.00 :0.00 0:00 2,500.00 0.00 0.00 0.00 0.00 0.00 0.00 2,600.00 0.00 2,600.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 2,700.00 0:00 0:00 2,700.00 0.00 0.00 0.00 0.00 0:00 0.00 2,800.00 0:00 0.00 2 800.00 0.00 0.00 0.00 0.00 0:00 0.00 2,900.00 0.00 0.00 2,900.00 0.00 0.00 0:00 0.00 0.00 0.00 3,000.00 0.00 0.00 3.000.00 0.00 0:00 0.00 0.00 0.00 0.00 3,100.00 0.00 0.00 3,100.00 0.00 0.00 0.00 0.00 :0:00 0.00 3,200.00 0.00 0.00 3,200.00 0.00 0.00 0.00 0.00 0.00 0.00 3:300.00 0.00 0.00 3,300.00 0.00 0100 0.00 0:00 0.00 0:00 0.00 3,400.00 0.00 0.00 3,400.00 0.00 0.00 0.00 0.00 0.00 3,500.00 0.00 0:00 3,500.00 0.00 0.00 0:00 0.00 0.00 0.00 3,600.00 10.00 0.00 3,600.00 0.00 0:00 0.00 0.00 0.00 0:00 3 700.00 0.00 0.00 3,700:00 0.00 0.00 0:00 0.00 0.00 0.00 3,800.00 0.00 0.00 0.00 3,800.00 0.00 0.00 0.00 0.00 0.00 3,900.00 0.00 0.00 3,900.00 0.00 0.00 0.00 0.00 0.00 4,000.00 0.00 0.00 4,000.00 0:00 0.00 0.00 0.00 0:00 0.00 4.100.00 0.00 0.00 4,100.00 0.00 0.00 0.00 0.00 0:00 0.00 0:00 4,200.00 0.00 4,200.00 0.00 0.00 0.00 0.00 0.00 0.00 4,300.00 0.00 0.00 4.300.00 0.00 0.00 0.00 0.00 ាល 0.00 4,400.00 0.00 0.00 4,400.00 0.00 0.00 0.00 0.00 0.00 0.00 4,500.00 0:00 0:00 4,500.00 0.00 0.00 0.00 0:00 0.00 0.00 4,600.00 0.00 0.00 4,600.00 0.00 0:00 0.00 0:00 0.00 0.00 4,700.00 -0:00 0.00 4,700.00 0.00 0.00 0100 0.00 0.00 0.00 4 800 00 0.00 0.00 4,800.00 0.00 0:00 0.00 0.00 0.00 0.00 4,900.00 0.00 0.00 4,900.00 0.00 0.00 0.00 0.00 0.00 0.00 5.000.00 0.00 0.00 5,000:00 0.00 0.00 0.00 0.00 0.00 0.00 5,100.00+ 0.00 0.00 5,100.00 0.00 0.00 0.00 0.00 0.00 0.00 5,200.00 0.00 0:00 5 200:00 0.00 0:00 0.00 0.00 0.00 0.00 5,300.00 0:00 0.00 5,300.00 0.00 0.00 0.00 0.00 0.00 0.00

12/21/18 12:56:01PM

COMPASS 5000 14 Build 85

Site:

Planning Report



EDM 5000.14 Single User Db Ridge Runner Resources Eddy County, NM (NAD83) Gladiator Fed Com Gladiator Fed Com 3502W1H Wellbore #1 Database: Company: Project: Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey, Calculation Method: Well: Wellbore:

Well Gladiator Fed Com 3502W 1H. GL 3080 + 30 KB @ 3110:00usft (Rig TBD) GL 3080 + 30 KB @ 3110.00usft (Rig TBD) Grid Minimum Curvature

Planned Survey	and the second se Second second s	ilit of the second	астаналаралара (н).сем.).	motalica, silita, maturphysica, edg	No 1991, 25-1-97	2	Continues in March 2. Trigonge		nan san ang at ang transition an than ay to instance. Man ka ang at ang at ang transition an than ay to instance.
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6,600.00	0.00	0.00	6,600.00	0.00	0.00	0.00	0.00	0.00	0.00
6,700.00	0.00	0.00	6,700.00	0.00	0.00	0.00	0.00	0.00	0.00
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12/21/18 12:56.01PM

COMPASS 5000 14 Build 85



2 EDM 5000 14 Single User Db Ridge Runner Resources Eddy County, NM (NAD83)

Gladiator Fed Com 3502W 1H

Gladiator Fed Com

Wellbore #1

plan1

Planning Report



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

Local Co-ordinate Reference: Well Gladiator Fed Com 3502W 1H TVD Reference: GL 3080' + 30' KB @ 3110.000sft (Rig TBD) MD Reference: GL 3080' + 30' KB @ 3110.000sft (Rig TBD) North Reference: GL 3080' + 30' KB @ 3110.000sft (Rig TBD) Minimum Curvature

Planned Survey

Database: Company: Project: Site:

Well:

Wellbore:

Design:

** Measured		San A	Vertical	19 A C	in somer Stander	Vertical		Bulld	Turn X
(usft) 4	Inclination (°)	Azimuth (°)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Section (usft)	Rate (?/100úsft)	Rate (*/100usft)	Rate (7/100usft)
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10,900.00	90.00	178.29	10,410.00	-735.59	21.95	735.73	0.00	0.00	0.00
11,100.00	90.00	178.29	10,410.00	-835.54	24.93 27.92	935.68	0.00	0.00	0.00
11,200.00	90.00	178:29	10,410.00	-1,035.45	30,90	1.035.66	0.00	0.00	0.00
11,300.00	90.00	178.29	10,410.00	-1,135.41	33.88	1,135.63	0.00	0.00	0.00
11,500.00	90.00	178.29	10,410.00	-1,235.37	36.86	1,235.61	0.00	0.00	0:00
11,600.00	90.00	178.29	10,410.00	-1,435.28	42.83	1,435.56	0.00	0.00	«Ó:00
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12,200,00	90.00	178.29	10,410.00	-2,035.01	60,73	2,035.41	0.00	0.00	0.00
12,400.00	90.00	178.29	10,410.00	-2,234.92	66:69	2,135.36	-0.00	0.00	0.00
12,500.00	90:00	178:29	10,410.00	-2,334.88	69.68	2,335,33	0.00	0.00	0.00
12,000.00	90.00	178-20	10,410,00	72,404.00 - 2,524-70	72.00	2,435,31	0.00	0.00	0.00
12,800.00	90.00	178.29	10,410.00	-2,634.79	75.64	2,535,28	0.00	0.00	0.00
12,900.00	90,00	178.29	10,410.00	-2,734.70	81.61	2,735,23	0.00	0.00	0.00
13,100.00	90,00	178.29	10,410.00	-2,834.65	84.59 87.57	2,835.21	0:00	0.00	0.00
13,200.00	90.00	178.29	10,410.00;	3,034.56	90.56	3.035.16	0.00	0.00 *	0.00
13,300,00	90,00	178.29	10,410.00	-3,134.52	93.54	3 135 13	0.00	0.00	0.00
13,500,00	90.00	178.29	10,410.00	-3,234.48	96.52 99.50	3,235,11	0.00	0.00	0,00
13,600,00	·90.00)	178.29	10,410.00	-3,434.39	102.49	3,435 06	0.00	0.00	0.00
13,700.00	90.00	178,29	10,410.00	-3,534.34	105.47	3,535 03	0.00	0.00	0.00
13,900.00	90.00	178.29	10,410.00	-3,734.25	108.45	3,635,01	0.00	0.00	0.00
14,000:00	90.00	178.29	10,410.00	-3,834.21	114.42	3,834 96,	0.00	0.00	0.00
14:200.00	90.00	170,29	10,410.00	-3,934.16	117.40	3,934,93	0.00	0.00:	0.00
14,300.00	90.00	178.29	10,410.00	-4,034:12	120.38	4,034,91	0.00	0.00	0.00
14,400.00	90.00	178.29	10:410.00	-4,234.03	126.35	4,234 86	0.00	0.00	0.00
14,600.00	90.00	178.29	10,410.00	-4,333.99 -4,433.94	129.33 132.31	4 334 83	0.00	0.00	0.00
14,700.00	90.00	17,8:29	10,410.00	-4:533.90	135 30	4 534 78	(n ñn	0:00	0.00
14,800.00	90.00	178 29	10,410.00	4,633.85	138.28	4 634 76	0.00	0:00	0.00
14,900.00	90.00	178-29 178-29	10,410.00	-4,733.81 •4 833 76	141.26	4,734 73	0.00	0.00	0.00
15,100.00	90,00	178.29	10,410.00	-4,933.72	147:23	4 934 68	0.00	0100	0.00
15,200.00	90.00	178.29	10,410.00	-5,033.67	150 21	5,034,66	0.00	0.00	0:00
15,300.00 15,343.79	90.00 90.00	178.29 178.29	10,410.00	-5 133 63 -5 177 40	153.19 154.50	5,134,63	0.00	0.00	0.00

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COMPASS 5000 14 Build 85

Rioge Runner

Planning Report

and the second



Turn

Rate 1

(*/100usft)

EDM 5000.14 Single User Db Ridge Runner Resources Eddy County, NM (NAD83) Gladiator Fed Com Gladiator Fed Com 3502W 1H Wellbore #1 Design: plan1

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method:

Well Gladiator Fed Com 3502W 1H GL 3080' + 30' KB @ 3110.00ush (Rig TBD) GL 3080' + 30' KB @ 3110.00ush (Rig TBD) Grid Minimum Curvature

Build :

Dogleg

Rate Rate (*/100usft)

Planned Survey

Database: Company:

Project: Site:

Wellbore:

Measured Vertical Ventical Depth ((usft) Section Inclination Azimuth Depth Depth +N/-S+ +E/-W (usft) (usft) n (usft))

Start DLS 2.	00 TFO 90.00	- Gladiator	Fed Com 35	02W1H#3				iyon dilikini ili a		Antonio de la com
15,400.00	90.00	179.41	10 410 00	-5 233 60	155 62	6.00	4.60	0.001		* : 10 mm
15,472.78	90.00	180.87	10 410 00	-5 306 37	155.44	5 20	9.0Z	2.00	0.00	2.00
Start 5097.5	hold at 154	72 78 MO	140.000.00	-0,000.07	100.44	្រុះរូប	1039	2.00	0.00	,2:00
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15,600.00	90,00	180.87	10,410.00	-5,433.58	153.51	5 4 3	4 58	0.00	0.00	0.00
15,700.00	90.00	180.87	10,410.00	-5,533.57	151.99	5 53	4.55	0.00	0.00	0.00
15,800.00	90.00	180.87	10,410.00	-5.633/56	150 47	5 63	1.53	0.00	0.00	0.00
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16,000,00	00.00	100.07	40 440 00					0.00	0.00	0.00
16 100 00	90,00	180,87	10,410,00	-5,833.54	147:43	5,834	4.48	0.00	0.00	0.00
16,200,00	90.00	180.87	10,410.00	-5,933,52	145.91	5,934	45	0.00	0:00	0.00
16,200,00	90.00	100:07	10,410.00	-6:033.51	144:40	6,034	43	0.00	0.00	0.00
16 400 00	90.00	160.87	10,410.00	-6,133.50	142.88	6,134	.40	0.00	0.00	0.00
10,400.00	90.00	180.87	10,410,00	-6,233.49	141:36	6,234	37	0.00	0.00	0.00
16,500.00	90.00	180.87	10,410.00	-6.333.48	139 84	6 334	35	0.00	0.00	0.00
16,600.00	90.00	180.87	10,410.00	-6.433.47	138.32	6 434	32	0.00	0.00	0.00
16,700.00	90.00	180:87	10,410.00	-6:533:46	136/80	6.534	30	0.00	0.00	0.00
16;800.00	90.00	180.87	10,410.00	-6.633.44	135 28	6 634	.27	0.00	0.00	0.00
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17,100,00	90.00	100.07	10,410.00	-0,833.42	132.24	6,834	.22	0.00	0.00	0.00
17 200 00	90.00	100.07	10,410.00	-6,933,41	130.72	6,934	.19	0.00	0.00	0.00
17,200.00	90.00	100.07	10,410:00	-7,033.40	129.20	7,034	.17	0.00	0.00	0.00
17 400 00	90.00	100.07	10,410.00	-7,133.39	127.68	7,134	1 4	0.00	0.00	0.00
	30.00	100.01	10,410.00	ar _i 233.37.	126.16	7,234	.12	0.00	0.00	0.00
17,500.00	90.00	180.87	10,410.00	-7,333.36	124.65	7,334	.09	0.00	0.00	0.00
17,600.00	90.00	180.87	10,410.00	-7,433.35	123.13	7.434	07	0.00	0.00	0.00
17,700.00	90.00	180.87	10,410.00	-7,533.34	121.61	7.534	04	0.00	0.00	0.00
17,800.00	90.00	180.87	10,410.00	-7,633.33	120.09	7.634	.01	0:00	0.00	0.00
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18 100 00	90.00	180.87	10,410.00	7 033 30	117.05	7,833	96	0.00	0.00	0.00
18 200.00	90.00	180.87	10,410,00	-7,933.29	10.03	7,933	94	J:00	0.00	0.00
18 300 00	90.00	180.87	10,410,00	-0,033.20 -	114.01	8,033	91	1.00	0.00	0.00
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all and the second s		100.07	10,440.00	-0,233.20	110.9%	*8,233	86 (1.00	0.00	0.00
18,500.00	90.00	180.87	10,410.00	-8,333.25	109.45	8,333.	83 (00.00	0:00	0.00
18,600.00	90.00	180.87	10,410.00	-8,433.24	107.93	8,433.	81 (00:0	0.00	0.00
18,700.00	90.00	180.87	10,410.00	-8,533.22	106.41	8,533.	78 (0.00	0.00	0.00
18,800.00	90.00	180.87	10,410.00	-8,633.21	104.90	8,633.	76 (00.	0.00	0.00
18,900:00	90.00	180.87	10,410.00	-8,733.20	103.38	8,733.	73 (00:	0.00	0.00
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10,700,00	30,00%	100.87	10,410.00	-9,433.12	92.74	9,433.	55 0	.00	0.00	0.00
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20,000.00	90.00	180.87	10,410.00	-9,833.07	86:66	9 837	15 ³ 0	00	0.00	0.00
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Page 6

COMPASS 5000.14 Build 85'

RAS BIDGE	Runner		Planning	Report			
Database: Company: Project: Site: Wall: Wellbors: Design:	EDM 5000.14 S Ridge Runner R Eddy County, NI Gladiator Fed C Gladiator Fed C Wellbore #1 plan1	ingle User Ob esources M (NAD83) om om 3502W-1H	Local TVD R MD Re Northi Survey	Co-ordinate Re oference: ference: Reference: Colculation M	erenco: Well C GL 30 GL 30 Grid Srid Minim	Nadlator Fed Com 3 80' + 30' KB @ 3110 80' + 30' KB @ 3110 1m Curvature	502W1H 0.00usft (Rig TBD) 0.00usft (Rig TBD)
Planned Survoy Madsurod Depth (usft)	nclinatión (Az	Vertical imath: Depth : (1) (usti)	+N/SI (üsft)	+E/.W Se (Usft) (I	rtical Dogle ction Rate JB(t) (?/100u;	8 Build Rate: sh) ("/100ush)	Turn Rate (7/100usft)
20,500.00 20,570.29 TD @ 20570.	90.00 90.00 29' MD - Gladiato	180.87 10,410.00 180.87 10,410.00 or Fed Com 3502W 1	-10,333:02 -10,403.30 H LTP/PBHL	.79.07 10 78.00 10	333 32 0 403.59 0	00 0:00: 00 0:00	0:00 0:00
Design Targets Target Name - hiVmiss target - - Shape	Dip'Angle, Dip (*) (Dir: TVD, +N) (yäft) (vi	//S ++E/ł-W/ ift) (usft)	Northing (usft)	Eästing (usfi)	Lattvda, J	Longlude
Gladiator Fed Com 38 plan misses targe Point Gladiator Fed Com 38	0:00 et center by 0:45u 0:00	0.00 10,410.00 -5 sft,at 10739,05usft MI 0,00,10,410.00 -5,1	74,70 17.60 2(10410.00 TVD 77.40 154.50) 492,844.7 574.71 N 17) 488,242.0	0 623,931.30 5 E) 0 624,068,20	32° 21' 16,622 N	104° 3' 57.086 W
- Point - Point Gladiator Fed Com 35 - plan hits target ce - Point	0:00	0.00-10,410.0010,4	03:30 78:00	483,016.1	0 623,991.70	3291939:358 N	'104° 3' 56.668 W
Plan Annotations Measur Depth (usft) 9,837 10,737	od Vortical Depth (usfi) 04 9.837.04 04 10.410.00	Local Cool +N/S (Usft) 0.00 -572 70	dinates +E/W (Usfr) 0.00 17.00	Comment Start Build 10. Start 4605 75	21 21 21 21 21 21 21 21 21 21 21 21 21 2		
15,343 15,472 20,570	79 10,410.00 78 10,410.00 29 10,410.00	-5,177,40 -5,306,37 -10,403,30	154.50 155.44 78.00	Start DLS 2.00 Start 5097.51 TD @ 20570.2) TFO 90:00 hold at 15472.78 (9' MD	ND :	
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12/21/18 12:56 01PM		an da an an Anna an Ann Anna an Anna an	Page 7		. 	COMPAS	S'5000 14 Build 85

Ridge Runner Resources Operating, LLC Gladiator Fed Com 3502 W 1H SHL 100' FNL & 330' FWL 35-22s-28e BHL 100' FSL & 330' FWL 2-23s-28e Eddy County, NM

Drilling Program

1. ESTIMATED TOPS

Formation Name	TVD	MD	Bearing
Quaternary caliche	000′	000	fresh water
Rustler anhydrite	250′	250′	brackish water
Top salt	480'	480	Ň/A
Delaware limestone	2700′	2700'	N/A
Bell Canyon sandstone	2725'	2725′	hydrocarbons
Cherry Canyon sandstone	3830′	3830'	hydrocarbons
Brushy Canyon sandstone	4850'	4850'	hydrocarbons
Bone Spring limestone	6245'	6245	hydrocarbons
1 st Bone Spring sandstone	7255'	7255′	hydrocarbons
2 nd Bone Spring sandstone	8110'	8110'	hydrocarbons
3 rd Bone Spring carbonate	8725′	8725'	hydrocarbons
3 rd Bone Spring sandstone	9230'	9Ž30'	hydrocarbons
Wolfcamp carbonate (goal)	9550′	9550′	hydrocarbons
(KOP	9835′	9837′	hydrocarbons)
TD	10410'	20570'	hydrocarbons

2. NOTABLE ZONES

Wolfcamp XY is the goal. Closest water well (C 00512) is 2.17 miles south. Depth to water was not reported in the 100' deep well.



Ridge Runner Resources Operating, LLC Gladiator Fed Com 3502 W 1H SHL 100' FNL & 330' FWL 35-22s-28e BHL 100' FSL & 330' FWL 2-23s-28e Eddy County, NM

3. PRESSURE CONTROL

A 5000 psi BOP system will be installed and tested to 3000 psi parameters before drilling the intermediate hole. Annular will be tested to 1500 psi. Double (pipe and blind) ram BOP will be tested to 3000 psi. This is based on:

9735' TVD x 10 ppg mud x 0.052 = 5062 psi <u>- 9735' x 0.22 psi/ft = 2142 psi</u> 2920 psi

The installed 5000 psi BOP system will be tested to 5000 psi parameters before drilling the production hole. Annular will be tested to 2500 psi. Double (pipe and blind) ram BOP will be tested to 5000 psi. Since a non-tapered drill string will be used, a double ram preventer is adequate. This is based on:

10410' TVD x 1'2.8 ppg mud x 0,052 = 6929 psi -10410' x 0.22 psi/ft = 2288 psi 4641 psi

BOPE will be tested by an independent service company to 250 psi low and the high pressures stated above as required by Onshore Order 2. The system may be upgraded to a higher pressure, but will still be tested to the pressures stated above.

Pipe rams will be functioned daily. Blind rams will be functioned on each trip when out of the hole. Annular will be functioned weekly. BOP will be tested on initial installation, whenever a seal is broken, following repairs, or every 30 days.

A variance is requested to use a 13.625" 5000 psi multi-bowl wellhead. When the BOP is initially installed after running the 13.375" (surface) casing, it will be tested to the 5M test pressure of the 8.5" interval. The 9.625" (intermediate) casing will be run with a mandrel hanger and without breaking any connections on the BOP. Thus, not requiring an additional BOP test.



Ridge Runner Resources Operating, LLC Gladiator Fed Com 3502 W 1H SHL 100' FNL & 330' FWL 35-22s-28e BHL 100' FSL & 330' FWL 2-23s-28e Eddy County, NM

Rig contract has not been let due to uncertainty regarding APD approval date. A typical 5M BOP stack and choke are attached. Rig specific diagrams will be provided via Sundry Notice once the rig contract is signed.

Auxiliary equipment:

Top drive will have an IBOP in lieu of Kelly cocks. A floor safety valve (i. e., TIW valve) will be available when tripping.

In the event a walking rig is used, a variance is requested to use a flexible choke line with flanged ends between the BOP and choke manifold. The line will be kept as straight as possible with minimal turns. Actual specifications and certification will be provided via Sundry Notice if this option is exercised.

4. CASING & CEMENT

All casing will be API, new, and tested to 0.22 psi/foot of a maximum of 1500 psi before drill out. See attached casing assumption worksheet. A tapered production string will be used to allow larger capacity 3.5" tubing. Premium connections will be used on the production string. See production string specification sheets.

Hole O. D.	Set MD	Set TVD	Casing O. D.	Weight (lb/ft)	Grade	Joint	SF Collapse	SF Burst	SF Tension
17.5"	0′ - 450'	0′ ≏ 450'	Surface 13.375"	54.5	J=55	STC	5.37 (9.0#)	12.96 (#9.0)	24.30 (9.0#)
12.25"	0′ - 9735' .	0′ - 9735'	Inter 9.625"	· 47	L-80 HC	BTC	1.134 (10.0#)	1.36 (10.0#)	2.89 (10.0#)
8.5"	0′ – 9700′ -	0′ ∹ 9700′	Prod. 1 7"	26	P-110 HC	CDC	1.17	1.54	2.3
8.5 ¹¹	9700' 9 20570'	9700' 10410'	Prod. 2 5-5"	20	P-110	Č ĎC	1.6 (12.8#)	1.79 (12.8#)	3.98 (12.8#)



Ridge Runner Resources Operating, LLC Gladiator Fed Com 3502 W 1H SHL 100' FNL & 330' FWL 35-22s-28e BHL 100' FSL & 330' FWL 2-23s-28e Eddy County, NM

A STATE OF A			and a to		1993 AN 1997 AN	Construction of the second
IName	Туре	Sacks	Yield	Cu. Ft.	Weight	Blend
Surface	Tail	465	1.34	623	14.8	Class C + 2% CaCl
TOC = GL		.1	00% Exces	55; 	Central	izers shoe joint + every 3 rd joint to GL
Intermediate	Lead	1235	2.50	3087	11.3	TXI light + 5% salt + 4% SMS + additives
Stage 1 (9/35' - 2700')	Tail	200	1,19	238	15.6	Class H + additives
TOC = 2700) [,]	5	0% Exces	5 1995 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -	Centraliz tool	ers: shoe joint + above & below DV + every 4 th joint from shoe to GL
Intermediate	Lead	640	2.19	1401	12.7	Člass C + 6% gel + 5% salt + additives
Stage 2 (2700" – GL)	Ţąil	135	1.32	178	14.8	Class C
TOC:=:GL		1(00% Exces	S	Centraliz tool +	ers: shoe joint + above & below DV every 4 th joint from shoe to GL
Production	Tail	2320	1.27	2946	14:2	50/50/2 Poz/G/gel + additives
TOC = 9235" (above interme shoe)	500′ diate	,1	5% Excess		Centrali	zers shoe joint + every 4 th joint to 9235'

5. MUD PROGRAM

An electronic pit volume totalizer will monitor volume, flow rate, pump pressure, and stroke rate. All necessary additives (e. g., barite, bentonite, LCM) to maintain mud quality and satisfy lost circulation and weight increase needs will be on site at all times. Mud program may change due to hole conditions. A closed loop system will be used.

PERMITIS

PROVIDING RERMITS for LAND USERS

WEST

Ridge Runner Resources Operating, LLC Gladiator Fed Com 3502 W 1H SHL 100' FNL & 330' FWL 35-22s-28e BHL 100' FSL & 330' FWL 2-23s-28e Eddy County, NM

Туре	Interval (MD)	lb/gal	Viscosity	Fluid Loss
fresh water spud mud	0' - 450'	8.4 - 9.0	28-34	N/C
brine water	450' - 9735'	10.0	28-30	N/C
oil based mud	9735' = 20570'	12.8	50-60	<14 HPHT

6. CORES, TESTS, & LOGS

No core, drill stem test, or log is planned.

7. DOWN HOLE CONDITIONS

No abnormal pressure or temperature is expected. Maximum expected bottom hole pressure is ≈ 6930 psig. Expected bottom hole temperature is $\approx 158^{\circ}$ F,

H2S monitoring and detection equipment will be used from surface casing point to TD.

8. OTHER INFORMATION

Anticipated spud date is upon approval. It is expected it will take ≈4 months to drill and complete the well.

Additional wells are planned on this pad. This well may be drilled with a walking rig. If that event occurs, then batch drilling of hole intervals will be performed. Idle well control will be ensured by not walking off a well until after the casing has been cemented, wellhead slips set, and a capping flanged nippled up.

In the event a walking rig is used, a variance is requested to use a flexible choke line with flanged ends between the BOP and choke manifold. The line will be kept as straight as possible with minimal turns. Actual specifications and certification will be provided via Sundry Notice if this option is exercised.





Internal Hydrostatic Test Certificate

General Inform	nation		Hose Specif	ications
Customer	Odessa	Hose Assembly	Туре	Choke & Kill
MWH Sales Representative	James Hawkins	Certification		API 7K/FSL Level 2
Date Assembled	6/22/2018	Hose Grade	رون دیند «میرو «دور» کار ویورستشی	Red
Location Assembled	ОКС	Hose Working	ressure	10000
Sales Order #	382312	Hose Lot # and	Date Code	12266-06/15
Customer Purchase Order #	426903	Hose I.D. (Inches)		2"
Assembly Serial # (Pick Ticket #)	474037	Hose O.D. (Inches		<u> </u>
Hose Assembly Length	43 Feet	Armor (yes/no)		Yes
	Fitt	ings Company		
End A			End B	
tem (Part and Revision #)	R2.0X32-1502M	Stem"(Port and Revi	sion #)	R2:0X32-1502E
tem (Heat #)	60224840	Stem (Heat #)	C & A.K. Sala	A014853
errule (Part and Revision #)	RF2.0X3875	Ferrule (Part and R	evision #)	RF2.0X3875
errule (Heat #)	A012890	Ferrule (Heat #)		A012890
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Onnection (Heat #)	98. Start Table	Connection (Heat	1)	
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vies Used	97MM	Dies Used	and a second state of the	97MM
	Hydrostatic Tes	t Requiremen	nts	
est Pressure (psi)	15,000	Hose assemb	ly was tested v	with ambient water
est Pressure Hold Time (minutes)	19 1/2		temperatu	re.
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Date Tested	Tested	Bý		
6/22/2018	Joshin)			opiovea by
			17	HOS

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		Jan Avi dw	est Hose		
Customer: 0			Or Contormi	<u>Y</u>	
Sales Order # 3	87317		Customer P.O.#	420903	
				. 6/22/2018	
	T. C.	Speci			
	y Type Ch	oke & Kill	Rig #	<u>N/A</u>	میں
Assembly Se	erial # 47	4037	Hose Lot # and	l Date Code	12266-06/15
Hose Working Pre	essure (psi) 10)00	Test Press	ure (psi)	15000
Hose Assembly D	escription	CK3	2-SS-L-10K-32M15	02-32F1502-4	3.00' FT
We hereby certify th to the requirements	hat the above ma of the purchase	terial supplied fo order and curren	r the referenced p t industry standard	urchase order Is.	to be true according
We hereby certify th to the requirements Supplier: Midwest Hose & Sp 3312 S I-35 Service I Oklahoma City, OK	hat the above ma of the purchase ecialty, Inc. Rd 73129	terial supplied fo order and curren	r the referenced p t industry standard	urchase order Is.	to be-true according
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Gladiator Fed Com 3502 1H Variance Request

Additional wells are planned on this pad. This well may be drilled with a walking rig. If that event occurs, then batch drilling of hole intervals will be performed. Idle well control will be ensured by not walking off a well until after the casing has been cemented, wellhead slips set, and a capping flanged nippled up.

In the event a walking rig is used, a variance is requested to use a flexible choke line with flanged ends between the BOP and choke manifold. The line will be kept as straight as possible with minimal turns. Actual specifications and certification will be provided via Sundry Notice if this option is exercised.

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

SUPO Data Report

APD ID: 10400037979	Submission Date: 01/15/2019	Highlighted data
Operator Name: RIDGE RUNNER RESOURCES OPE	RATING LLC	reflects the most
Well Name: GLADIATOR FED COM 3502 W	Well Number: 1H	recent changes.
Well Type: CONVENTIONAL GAS WELL	Well Work Type: Drill	
Section 1 - Existing Roads		

Will existing roads be used? YES

Existing Road Map:

Gladiator_1H_Road_Map_20190114145800.pdf

Existing Road Purpose: ACCESS

ROW ID(s)

ID:

Do the existing roads need to be improved? NO

Existing Road Improvement Description:

Existing Road Improvement Attachment:

Section 2 - New or Reconstructed Access Roads

Will new roads be needed? YES

New Road Map:

Gladiator_1H_New_Road_Map_20190115084102.pdf

New road type: RESOURCE

Length: 117.82

Width (ft.): 30

Max slope (%): 0

Max grade (%): 3

Army Corp of Engineers (ACOE) permit required? NO

Feet

ACOE Permit Number(s):

New road travel width: 14

New road access erosion control: Crowned and ditched

New road access plan or profile prepared? NO

New road access plan attachment:

Access road engineering design? NO

Access road engineering design attachment:

Row(s) Exist? NO

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Operator Name: RIDGE RUNNER RESOURCES OPE	RATING LLC				
Well Name: GLADIATOR FED COM 3502 W	Well Numb	er: 1H		•	
Turnout? N					
Access surfacing type: OTHER	•				
Access tonsoil source: ONSITE					
Access surfacing type description: Caliche					
Access onsite topsoil source depth: 6					
Offsite topsoil source description:					
Onsite topsoil removal process: Grader					
Access other construction information: Borrow ditche	es will turn out ever	ry 100 yards			
Access miscellaneous information:					
Number of access turnouts: Access t	urnout map:				
Drainage Control					
New road drainage crossing: OTHER					
Drainage Control comments: Crowned and ditched					
Road Drainage Control Structures (DCS) description	: None				
Road Drainage Control Structures (DCS) attachment	:				
Access Additional Attachments					
Section 3 - Location of Existing V	Vells				
Existing Wells Map? YES					
Attach Well map:		-			

Gladiator_1H_Well_Map_20190115084242.pdf

Section 4 - Location of Existing and/or Proposed Production Facilities

Submit or defer a Proposed Production Facilities plan? SUBMIT

Production Facilities description: A 5.449 acre central tank battery (CTB) will be built immediately south of the Gladiator well pad. CTB will be accessed from the well pad. Tank battery will be built in southwest corner of the CTB. Flare will be in the southeast corner of the CTB. Process equipment will be north of the flare. Oil will be trucked to market. No gas line contract has been signed.

Production Facilities map:

Gladiator_1H_Production_Facilities_20190115084352.pdf

Section 5 - Location and Types of Water Supply

Water Source Table

Operator Name: RIDGE RUNNER RI Well Name: GLADIATOR FED COM	ESOURCES OPERATII 3502 W	NG LLC Well Number:	1H
Water source type: GW WELL			· · ·
Water source use type:	SURFACE CASING		
· · ·	STIMULATION		
	DUST CONTROL		
	INTERMEDIATE/PRO CASING	ODUCTION	
Source latitude:		Sc	ource longitude:
Source datum:			
Water source permit type:	PRIVATE CONTRAC	т	
Water source transport method:	TRUCKING		
Source land ownership: PRIVATE			· · ·
Source transportation land owner	rship: PRIVATE		
Water source volume (barrels): 2 ²	1000	So	purce volume (acre-feet): 2.706755
Source volume (gal): 882000			
Vater source and transportation ma Gladiator_1H_Water_Source_Map_20 Vater source comments: Water will to 7e. Iew water well? NO	p: 190115084456.pdf be trucked from 275' de	ep water well C	03607 POD 1 on private land in NENE 24-21s-
New Water Well	info		
Well latitude:	Well Longitude:		Weil datum:
well target aquiter:	F - 4 41-1	iaknoon of any	
Est. depth to top of aquifer(π):		ickness of aqu	ner.
Aquifer documentation:			
	14/- II		
ren deptn (π):		ing type:	
en casing outside diameter (in.):		oing inside diar	neter (m.):
ew water well casing?	Used ca	sing source:	
rilling method:	Drill mat	terial:	
rout material:	Grout de	epth:	
asing length (ft.):	Casing t	top depth (ft.):	

Well Name: GLADIATOR FED COM 3502 W

Well Number: 1H

Well Production type:

Completion Method:

Water well additional information:

State appropriation permit:

Additional information attachment:

Section 6 - Construction Materials

Using any construction materials: YES

Construction Materials description: NM One Call (811) will be notified before construction starts. Top 6" of soil and brush will be stockpiled west of the pad. V-door will face east. Closed loop drilling system will be used. Caliche will be hauled from existing caliche pit on private (McDonald) land in SESE 16-23s-28e.

Construction Materials source location attachment:

Gladiator_1H_Construction_Methods_20190115084522.pdf

Section 7 - Methods for Handling Waste

Waste type: DRILLING

Waste content description: Drill cuttings, mud, salts, and other chemicals; human waste

Amount of waste: 1000 barrels

Waste disposal frequency : Daily

Safe containment description: Steel tanks on pad; chemical toilets

Safe containmant attachment:

Waste disposal type: OTHER

Disposal location ownership: OTHER

Disposal type description: Commercial/Public

Disposal location description: All trash will be placed in a portable trash cage. It will be hauled to the Eddy County landfill. There will be no trash burning. Contents (drill cuttings, mud, salts, and other chemicals) of the mud tanks will be hauled to R360's state approved (NM-01-0006) disposal site at Halfway. Human waste will be disposed of in chemical toilets and hauled to the Artesia wastewater treatment plant.

Reserve Pit

Reserve Pit being used? NO

Temporary disposal of produced water into reserve pit?

Reserve pit length (ft.) Reserve pit width (ft.)

Reserve pit depth (ft.)

Reserve pit volume (cu. yd.)

Is at least 50% of the reserve pit in cut?

Reserve pit liner

Reserve pit liner specifications and installation description

Well Name: GLADIATOR FED COM 3502 W

Well Number: 1H

Cuttings area width (ft.)

Cuttings area volume (cu. yd.)

Cuttings Area

Cuttings Area being used? NO

Are you storing cuttings on location? YES

Description of cuttings location Steel tanks on pad

Cuttings area length (ft.)

Cuttings area depth (ft.)

Is at least 50% of the cuttings area in cut?

WCuttings area liner

Cuttings area liner specifications and installation description

Section 8 - Ancillary Facilities

Are you requesting any Ancillary Facilities?: NO Ancillary Facilities attachment:

Comments:

Section 9 - Well Site Layout

Well Site Layout Diagram:

Gladiator_1H_Well_Site_Layout_20190115085209.pdf

Comments:

Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance

Multiple Well Pad Name: GLADIATOR FED COM 3502 W

Multiple Well Pad Number: 1H

Recontouring attachment:

Gladiator_1H_Interim_Reclamation_Plan_20190115085226.pdf Gladiator_1H_Recontour_Plat_20190115085234.pdf Drainage/Erosion control construction: Crowned and ditched Drainage/Erosion control reclamation: Harrowed on the contour

Well Name: GLADIATOR FED COM 3502 W

Well Number: 1H

•		
Well pad proposed disturbance	Well pad interim reclamation (acres)	: Well pad long term disturbance
(acres): 4.02	0.82	(acres): 3.8
Road proposed disturbance (acres):	Road interim reclamation (acres): 0	Road long term disturbance (acres):
0.08	Powerline interim reclamation (acro	0.08
Powerline proposed disturbance		Powerline long term disturbance
(acres): 0	Pineline interim reclamation (acres)	(acres): 0
Pipeline proposed disturbance		Pipeline long term disturbance
(acres): 0	Other interim reclamation (acres):	(acres): 0
Other proposed disturbance (acres):	Total interim reclamation: 0.82	Other long term disturbance (acres):
5.45		5.45
Total proposed disturbance: 10.15		Total long term disturbance: 9.33

Disturbance Comments:

Reconstruction method: Interim reclamation will be completed within 6 months of completing the well. Interim reclamation will consist of shrinking the well pad 0.82 acre by removing caliche and reclaiming 100' on the east side of the pad. This will leave 3.80 acres for the anchors, pump jacks, and tractor-trailer turn around. Disturbed areas will be contoured to match preconstruction grades. Soil and brush will be evenly spread over disturbed areas and harrowed on the contour. Disturbed areas will be seeded in accordance with BLM's requirements. Once the wells are plugged, then reclamation will be completed within 6 months of plugging the last well. Reclamation will consist of removing caliche and deeply ripping on the contour. Disturbed areas will be contoured to match pre-

Topsoil redistribution: Soil and brush will be evenly spread over disturbed areas and harrowed on the contour. Disturbed areas will be seeded in accordance with BLM's requirements. Noxious weeds will be controlled. **Soil treatment:** None

Existing Vegetation at the well pad:

Existing Vegetation at the well pad attachment:

Existing Vegetation Community at the road:

Existing Vegetation Community at the road attachment:

Existing Vegetation Community at the pipeline:

Existing Vegetation Community at the pipeline attachment:

Existing Vegetation Community at other disturbances: Existing Vegetation Community at other disturbances attachment:

Non native seed used? NO

Non native seed description:

Seedling transplant description:

Will seedlings be transplanted for this project? NO

Seedling transplant description attachment:

Operator Name: RIDGE RUNNER RESOURCES OPE	RATING LLC	
Well Name: GLADIATOR FED COM 3502 W	Well Number:	:1H
Will seed be harvested for use in site reclamation? N	10	
Seed harvest description:		
Seed harvest description attachment:		· · ·
Seed Management		
Seed Table		
Seed type:	Seed source:	
Seed name:		
Source name:	Source addres	s:
Source phone:		
Seed cultivar:		
Seed use location:		
PLS pounds per acre:	Proposed seed	ding season:
Seed Summary Seed Type Pounds/Acre	Total pounds/Act	re:
Seed reclamation attachment:		
Operator Contact/Responsible Offici	al Contact Info	
First Name: Derek	Last Name: Webb	
Phone:	Email: derek.webb@	23ROperating.com
Seedbed prep:		
Seed BMP:		· · ·
Seed method:		
Existing invasive species? NO		
Existing invasive species treatment description:		
Existing invasive species treatment attachment:		
Weed treatment plan description: To BLM standards	•	
Weed treatment plan attachment:		· · · · ·
Monitoring plan description: To BLM standards		· ·
Monitoring plan attachment:		
Success standards: To BLM satisfaction		

	•	· · ·
Operator Name: RIDGE RUNNER RESOURCES OPERA	TING LLC	
Well Name: GLADIATOR FED COM 3502 W	Well Number:	1H
Pit closure description: No pit		/
Pit closure attachment:		
Section 11 - Surface Ownership		• •
Disturbance type: WELL PAD		
Describe:		
Surface Owner: BUREAU OF LAND MANAGEMENT		
Other surface owner description:		
BIA Local Office:		
BOR Local Office:		
COE Local Office:		
DOD Local Office:		
NPS Local Office:		
State Local Office:		
Military Local Office:		
USFWS Local Office:		
Other Local Office:		
USFS Region:		
USFS Forest/Grassland:	USFS Ranger	District:
	· * · ·	
	•	
Disturbance type: EXISTING ACCESS ROAD		

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

Well Name: GLADIATOR FED COM 3502 W

Well Number: 1H

USFWS Local Office: Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Disturbance type: NEW ACCESS ROAD

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

DOD Local Office:

USFS Forest/Grassland:

USFS Ranger District:

Disturbance type: OTHER Describe: CTB Surface Owner: BUREAU OF LAND MANAGEMENT Other surface owner description: BIA Local Office: BOR Local Office: COE Local Office:

Page 9 of 11

Operator Name: RIDGE RUNNER RESOURCES OPE		
Well Name: GLADIATOR FED COM 3502 W	Well Number	: 1H

NPS Local Office: State Local Office: Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Use APD as ROW?

Section 12 - Other Information

Right of Way needed? NO ROW Type(s):

ROW Applications

SUPO Additional Information:

Use a previously conducted onsite? YES

Previous Onsite information: On-site inspection was held on December 6, 2018 with Matt Wirth (BLM). Lone Mountain has inspected the project area and will file an archaeology report.

Other SUPO Attachment

Gladiator_1H_SUPO_20190710112120.pdf

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Ridge Runner Resources Operating, LLC Gladiator Fed Com 3502 W 1H SHL 100' FNL & 330' FWL 35-22S-28E Eddy County, NM

Surface Use Plan

1. <u>ROAD DIRECTIONS & DESCRIPTIONS</u> (See MAPS 1 – 4)

From the center of Loving, NM (not Lovington)

Go NW 2.4 miles on paved US 285 to the equivalent of Mile Post 23.4

Then turn right and go East 5.3 miles on paved NM 31

Then turn left and go NW 3.6 miles on paved County Road 605 (Refinery) Then turn right and go NE 0.5 mile on a caliche oil field road

Then turn right and go E 117.82' cross-country to the proposed Gladiator pad

Non-county roads will be maintained as needed to Gold Book standards. This includes pulling ditches, preserving the crown, and cleaning culverts. This will be done at least once a year, and more often as needed.

2. ROAD TO BE BUILT OR UPGRADED (See MAPS 3 & 4)

The 117.82' of new resource road will be crowned and ditched, have a 14' wide driving surface, and be surfaced with caliche. No cattle guard, gate, culvert, or vehicle turnout is needed. Borrow ditches will turn out every ≈ 100 yards. Maximum disturbed width = 30'. Maximum grade = 3%. Maximum cut or fill = 3'.

3. EXISTING WELLS (See MAP 5)

Existing oil, gas, disposal, water, and P & A wells are within a mile. No injection well is within a mile radius.



INC.

PROVIDING PERMITS for LAND USERS

Ridge Runner Resources Operating, LLC Gladiator Fed Com 3502 W 1H SHL 100' FNL & 330' FWL 35-22S-28E Eddy County, NM

4. PROPOSED PRODUCTION FACILITIES (See MAPS 6, 7, & 8)

A 5.449 acre central tank battery (CTB) will be built immediately south of the Gladiator well pad. CTB will be accessed from the well pad. Tank battery will be built in southwest corner of the CTB. Flare will be in the southeast corner of the CTB. Process equipment will be north of the flare. Oil will be trucked to market. No gas line contract has been signed.

5. <u>WATER SUPPLY</u> (See MAP 9)

Water will be trucked from 275' deep water well C 03607 POD 1 on private land in NENE 24-21s-27e.

6. CONSTRUCTION MATERIALS & METHODS (See MAPS 10 - 14)

NM One Call (811) will be notified before construction starts. Top $\approx 6^{\circ}$ of soil and brush will be stockpiled west of the pad. V-door will face east. Closed loop drilling system will be used. Caliche will be hauled from existing caliche pit on private (McDonald) land in SESE 16-23s-28e.

7. WASTE DISPOSAL

All trash will be placed in a portable trash cage. It will be hauled to the Eddy County landfill. There will be no trash burning. Contents (drill cuttings, mud, salts, and other chemicals) of the mud tanks will be hauled to R360's state approved (NM-01-0006) disposal site at Halfway. Human waste will be disposed of in chemical toilets and hauled to the Artesia wastewater treatment plant.

Ridge Runner Resources Operating, LLC Gladiator Fed Com 3502 W 1H SHL 100' FNL & 330' FWL 35-22S-28E Eddy County, NM

8. ANCILLARY FACILITIES

There will be no airstrip or camp. Camper trailers will be on location for the company man, tool pusher, and mud logger.

9. WELL SITE LAYOUT (See MAP 15)

Also see Rig Layout diagram for depictions of the well pad, trash cage, access onto the location, parking, living facilities, and rig orientation.

10. RECLAMATION (See MAPS 16 - 18)

Interim reclamation will be completed within 6 months of completing the well, Interim reclamation will consist of shrinking the well pad 0.82 acre by removing caliche and reclaiming 1.00' on the east side of the pad. This will leave 3.80 acres for the anchors, pump jacks, and tractor-trailer turn around. Disturbed areas will be contoured to match pre-construction grades. Soil and brush will be evenly spread over disturbed areas and harrowed on the contour. Disturbed areas will be seeded in accordance with BLM's requirements.

Once the wells are plugged, then reclamation will be completed within 6 months of plugging the last well. Reclamation will consist of removing caliche and deeply ripping on the contour. Disturbed areas will be contoured to match preconstruction grades. Soil and brush will be evenly spread over disturbed areas and harrowed on the contour. Disturbed areas will be seeded in accordance with BLM's requirements. Noxious weeds will be controlled. Land use:

117.82' x 30' road = 0.08 acres 526' x 400' x 493' x 400' well pad = 4.62 acres + 493' x 518' x 448' x 506' central tank battery = 5.45 acres 10.15 acres short term - 0.82 acres interim reclamation 9.33 acres long term (0.08 ac. road + 3.80 ac. well pad + 5.45 ac. CTB) PROVIDING PERMITS for LAND USERS. IN

L.INC.

PROVIDING PERMITS for LAND USERS

Ridge Runner Resources Operating, LLC Gladiator Fed Com 3502 W 1H SHL 100' FNL & 330' FWL 35-22S-28E Eddy County, NM

11. SURFACE OWNER

All construction will be on BLM and managed by the Carlsbad Field Office, 620 E. Greene St., Carlsbad NM 88220. Phone number is 575 234-5972.

12. OTHER INFORMATION

On-site inspection was held on December 6, 2018 with Matt Wirth (BLM).

Lone Mountain has inspected the project area and will file an archaeology report.

WAFMSS

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

PWD Data Report

11/04/2019

APD ID: 10400037979

Submission Date: 01/15/2019

Operator Name: RIDGE RUNNER RESOURCES OPERATING LLC

Well Name: GLADIATOR FED COM 3502 W

Well Type: CONVENTIONAL GAS WELL

Well Number: 1H

Well Work Type: Drill

Section 1 - General

Would you like to address long-term produced water disposal? NO

Section 2 - Lined Pits

Would you like to utilize Lined Pit PWD options? NO Produced Water Disposal (PWD) Location: PWD surface owner: Lined pit PWD on or off channel: Lined pit PWD discharge volume (bbl/day): Lined pit specifications: Pit liner description: Pit liner manufacturers information: Precipitated solids disposal: Decribe precipitated solids disposal: Precipitated solids disposal permit: Lined pit precipitated solids disposal schedule: Lined pit precipitated solids disposal schedule:

Lined pit reclamation description: Lined pit reclamation attachment:

Leak detection system description:

Leak detection system attachment:

PWD disturbance (acres):

Operator Name: RIDGE RUNNER RESOURCES OPERATING LLC

Well Name: GLADIATOR FED COM 3502 W

Well Number: 1H

Lined pit Monitor description: Lined pit Monitor attachment: Lined pit: do you have a reclamation bond for the pit? Is the reclamation bond a rider under the BLM bond? Lined pit bond number: Lined pit bond amount: Additional bond information attachment:

Section 3 - Unlined Pits

Would you like to utilize Unlined Pit PWD options? NO

Produced Water Disposal (PWD) Location:

PWD disturbance (acres):

PWD surface owner:

Unlined pit PWD on or off channel:

Unlined pit PWD discharge volume (bbl/day):

Unlined pit specifications:

Precipitated solids disposal:

Decribe precipitated solids disposal:

Precipitated solids disposal permit:

Unlined pit precipitated solids disposal schedule:

Unlined pit precipitated solids disposal schedule attachment:

Unlined pit reclamation description:

Unlined pit reclamation attachment:

Unlined pit Monitor description:

Unlined pit Monitor attachment:

Do you propose to put the produced water to beneficial use?

Beneficial use user confirmation:

Estimated depth of the shallowest aquifer (feet):

Does the produced water have an annual average Total Dissolved Solids (TDS) concentration equal to or less than that of the existing water to be protected?

TDS lab results:

Geologic and hydrologic evidence:

State authorization:

Unlined Produced Water Pit Estimated percolation:

Unlined pit: do you have a reclamation bond for the pit?

Operator Name: RIDGE RUNNER RESOURCES OPERATING LLC Well Name: GLADIATOR FED COM 3502 W Well Number: 1H Is the reclamation bond a rider under the BLM bond? Unlined pit bond number: Unlined pit bond amount: Additional bond information attachment: Section 4 - Injection Would you like to utilize Injection PWD options? NO Produced Water Disposal (PWD) Location: PWD surface owner: PWD disturbance (acres): Injection PWD discharge volume (bbl/day): Injection well mineral owner: Injection well type: Injection well number: Injection well name: Assigned injection well API number? Injection well API number: Injection well new surface disturbance (acres): Minerals protection information: **Mineral protection attachment: Underground Injection Control (UIC) Permit? UIC Permit attachment:** Section 5 - Surface Discharge Would you like to utilize Surface Discharge PWD options? NO Produced Water Disposal (PWD) Location: PWD surface owner: **PWD disturbance (acres):** Surface discharge PWD discharge volume (bbl/day):

Surface Discharge NPDES Permit attachment:

Surface Discharge site facilities information:

Surface discharge site facilities map:

Surface Discharge NPDES Permit?

Section 6 - Other

Would you like to utilize Other PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

Other PWD discharge volume (bbl/day):

PWD disturbance (acres):

Operator Name: RIDGE RUNNER RESOURCES OPERATING LLC

Well Name: GLADIATOR FED COM 3502 W

Well Number: 1H

Other PWD type description:

Other PWD type attachment:

Have other regulatory requirements been met?

Other regulatory requirements attachment:

WAFMSS

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

Bond Info Data Report

11/04/2019

APD ID: 10400037979	Submission Date:	01/15/2019	Highlighted data
Operator Name: RIDGE RUNNER RESOURCES OPERAT	ING LLC		reflects the most
Well Name: GLADIATOR FED COM 3502 W	Well Number: 1H		Show Final Text
Well Type: CONVENTIONAL GAS WELL	Well Work Type: [Drill	

Bond Information

Federal/Indian APD: FED BLM Bond number: NMB001616

BIA Bond number:

Do you have a reclamation bond? NO

Is the reclamation bond a rider under the BLM bond?

Is the reclamation bond BLM or Forest Service?

BLM reclamation bond number:

Forest Service reclamation bond number:

Forest Service reclamation bond attachment:

Reclamation bond number:

Reclamation bond amount:

Reclamation bond rider amount:

Additional reclamation bond information attachment: