

RECEIVED

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FORM APPROVED  
OMB No. 1004-0137  
Expires: January 31, 2018

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

EMERALD ARTESIA

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No. NMNM016331	
6. If Indian, Allottee or Tribe Name	
7. If Unit or CA Agreement, Name and No.	
8. Lease Name and Well No. WARRIOR FED COM 2734 W 1H 326982	
9. API Well No. 30-015-46607	
1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER	10. Field and Pool, or Exploratory PIERCE CROSSING BONE SPRING, EA
1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other	11. Sec., T. R. M. or Blk. and Survey or Area SEC 22 / T22S / R28E / NMP
1c. Type of Completion: <input type="checkbox"/> Hydraulic Fracturing <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone	12. County or Parish EDDY
2. Name of Operator RIDGE RUNNER RESOURCES OPERATING LLC	13. State NM
3a. Address 1004 N. Big Spring Street, Suite 325 Midland TX 79701	14. Distance in miles and direction from nearest town or post office* 6 miles
3b. Phone No. (include area code) (432)684-7877	15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 590 feet
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface SWSW / 500 FSL / 330 FWL / LAT 32.3723738 / LONG -104.082979 At proposed prod. zone SWSW / 100 FSL / 330 FWL / LAT 32.3421907 / LONG -104.0828103	16. No of acres in lease 519.74
17. Spacing Unit dedicated to this well 640	18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 30 feet
19. Proposed Depth 10300 feet / 21035 feet	20. BLM/BIA Bond No. in file FED: NMB001616
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3075 feet	22. Approximate date work will start* 03/01/2019
23. Estimated duration 120 days	24. Attachments

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

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

25. Signature (Electronic Submission)	Name (Printed/Typed) Brian Wood / Ph: (505)466-8120	Date 02/11/2019
Title President		
Approved by (Signature) (Electronic Submission)	Name (Printed/Typed) Cody Layton / Ph: (575)234-5959	Date 12/23/2019
Title Assistant Field Manager Lands & Minerals		
Office CARLSBAD		

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.  
Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**APPROVED WITH CONDITIONS**  
Approval Date: 12/23/2019

12/17-2020

## **Additional Operator Remarks**

### **Location of Well**

1. SHL: SWSW / 500 FSL / 330 FWL / TWSP: 22S / RANGE: 28E / SECTION: 22 / LAT: 32.3723738 / LONG: -104.082979 ( TVD: 0 feet, MD: 0 feet )  
PPP: NWNW / 500 FSL / 330 FWL / TWSP: 22S / RANGE: 28E / SECTION: 34 / LAT: 32.3723738 / LONG: -104.082978 ( TVD: 9500 feet, MD: 9500 feet )  
PPP: NWNW / 0 FNL / 330 FWL / TWSP: 22S / RANGE: 28E / SECTION: 34 / LAT: 32.356441 / LONG: -104.082891 ( TVD: 10300 feet, MD: 15851 feet )  
BHL: SWSW / 100 FSL / 330 FWL / TWSP: 22S / RANGE: 28E / SECTION: 34 / LAT: 32.3421907 / LONG: -104.0828103 ( TVD: 10300 feet, MD: 21035 feet )

## **BLM Point of Contact**

Name: Tenille Ortiz

Title: Legal Instruments Examiner

Phone: 5752342224

Email: tortiz@blm.gov

## **Review and Appeal Rights**

A person contesting a decision shall request a State Director review. This request must be filed within 20 working days of receipt of the Notice with the appropriate State Director (see 43 CFR 3165.3). The State Director review decision may be appealed to the Interior Board of Land Appeals, 801 North Quincy Street, Suite 300, Arlington, VA 22203 (see 43 CFR 3165.4). Contact the above listed Bureau of Land Management office for further information.

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**Approval Date: 12/23/2019**

(Form 3160-3, page 4)

## PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

<b>OPERATOR'S NAME:</b>	Ridge Runner Resources Operating LLC
<b>LEASE NO.:</b>	NMNM016331
<b>WELL NAME &amp; NO.:</b>	Warrior Fed Com 2734 W 1H
<b>SURFACE HOLE FOOTAGE:</b>	500'/S & 330'/W
<b>BOTTOM HOLE FOOTAGE:</b>	100'/S & 330'/W
<b>LOCATION:</b>	Section 22, T.22 S., R.28 E., NMPM
<b>COUNTY:</b>	Eddy County, New Mexico



H2S	<input type="radio"/> Yes	<input checked="" type="radio"/> No	
Potash	<input checked="" type="radio"/> None	<input type="radio"/> Secretary	<input type="radio"/> R-111-P
Cave/Karst Potential	<input type="radio"/> Low	<input checked="" type="radio"/> Medium	<input type="radio"/> High
Cave/Karst Potential	<input type="radio"/> Critical		
Variance	<input type="radio"/> None	<input checked="" type="radio"/> Flex Hose	<input type="radio"/> Other
Wellhead	<input type="radio"/> Conventional	<input checked="" type="radio"/> Multibowl	<input type="radio"/> Both
Other	<input type="checkbox"/> 4 String Area	<input type="checkbox"/> Capitan Reef	<input type="checkbox"/> WIPP
Other	<input type="checkbox"/> Fluid Filled	<input type="checkbox"/> Cement Squeeze	<input type="checkbox"/> Pilot Hole
Special Requirements	<input type="checkbox"/> Water Disposal	<input checked="" type="checkbox"/> COM	<input type="checkbox"/> Unit

### A. HYDROGEN SULFIDE

Hydrogen Sulfide (H2S) monitors shall be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

### B. CASING

1. The 13-3/8 inch surface casing shall be set at approximately **300 feet** (a minimum of **70 feet (Eddy County)** into the Rustler Anhydrite and above the salt) and cemented to the surface.
  - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
  - b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8**

hours or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)

- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
- d. If cement falls back, remedial cementing will be done prior to drilling out that string.

2. The minimum required fill of cement behind the 9-5/8 inch intermediate casing is:

Operator has proposed a DV tool, the depth may be adjusted as long as the cement is changed proportionally. The DV tool may be cancelled if cement circulates to surface on the first stage.

- a. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
- b. Second stage above DV tool:

- Cement to surface. If cement does not circulate, contact the appropriate BLM office.

**Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.**

- ❖ In Medium Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.

3. The minimum required fill of cement behind the 7 X 5 1/2 inch production casing is:

- Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

### **C. PRESSURE CONTROL**

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).
2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M) psi**.
  - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.

- b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
- c. Manufacturer representative shall install the test plug for the initial BOP test.
- d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

#### **D. SPECIAL REQUIREMENT (S)**

##### **Communitization Agreement**

- The operator will submit a Communitization Agreement to the Carlsbad Field Office, 620 E Greene St. Carlsbad, New Mexico 88220, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

## GENERAL REQUIREMENTS

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

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

Eddy County

Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,  
(575) 361-2822

Lea County

Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575)  
393-3612

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

A. CASING

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

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP. 53 Sec. 17.
2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
  - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
  - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
  - c. Manufacturer representative shall install the test plug for the initial BOP test.
  - d. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.
  - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
  - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including

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.

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.

**JJP12182019**



**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 subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.*

**NAME:** Brian Wood

**Title:** President

**Street Address:** 37 Verano Loop

**City:** Santa Fe

**State:** NM

**Phone:** (505)466-8120

**Email address:** afmss@permitswest.com

**Signed on:** 02/11/2019

**Zip:** 87508

**Field Representative**

**Representative Name:**

**Street Address:**

**City:**

**State:**

**Zip:**

**Phone:**

**Email address:**



APD ID: 10400039008

Submission Date: 02/11/2019

Highlighted data  
reflects the most  
recent changes

Operator Name: RIDGE RUNNER RESOURCES OPERATING LLC

Well Name: WARRIOR FED COM 2734 W

Well Number: 1H

Show Final Text

Well Type: CONVENTIONAL GAS WELL

Well Work Type: Drill

**Section 1 - General**

APD ID: 10400039008

Tie to previous NOS? N

Submission Date: 02/11/2019

BLM Office: CARLSBAD

User: Brian Wood

Title: President

Federal/Indian APD: FED

Is the first lease penetrated for production Federal or Indian? FED

Lease number: NMNM016331

Lease Acres: 519.74

Surface access agreement in place?

Allotted?

Reservation:

Agreement in place? NO

Federal or Indian agreement:

Agreement number:

Agreement name:

Keep application confidential? NO

Permitting Agent? YES

APD Operator: RIDGE RUNNER RESOURCES OPERATING LLC

Operator letter of designation:

**Operator Info**

Operator Organization Name: RIDGE RUNNER RESOURCES OPERATING LLC

Operator Address: 1004 N. Big Spring Street, Suite 325

Zip: 79701

Operator PO Box:

Operator City: Midland

State: TX

Operator Phone: (432)684-7877

Operator Internet Address:

**Section 2 - Well Information**

Well in Master Development Plan? NO

Master Development Plan name:

Well in Master SUPO? NO

Master SUPO name:

Well in Master Drilling Plan? NO

Master Drilling Plan name:

Well Name: WARRIOR FED COM 2734 W

Well Number: 1H

Well API Number:

Field/Pool or Exploratory? Field and Pool

Field Name: PIERCE  
CROSSING BONE SPRING,  
EAST

Pool Name:

Operator Name: RIDGE RUNNER RESOURCES OPERATING LLC

Well Name: WARRIOR FED COM 2734 W

Well Number: 1H

Is the proposed well in an area containing other mineral resources? USEABLE WATER,NATURAL GAS,OIL

Is the proposed well in a Helium production area? N Use Existing Well Pad? NO New surface disturbance?

Type of Well Pad: MULTIPLE WELL

Multiple Well Pad Name: WARRIOR FED COM 2734 W

Number: 1H

Well Class: HORIZONTAL

Number of Legs: 1

Well Work Type: Drill

Well Type: CONVENTIONAL GAS WELL

Describe Well Type:

Well sub-Type: INFILL

Describe sub-type:

Distance to town: 6 Miles

Distance to nearest well: 30 FT

Distance to lease line: 590 FT

Reservoir well spacing assigned acres Measurement: 640 Acres

Well plat: Warrior\_2734W\_1H\_Plat\_GasCap\_Plan\_20190211120450.pdf

Well work start Date: 03/01/2019

Duration: 120 DAYS

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83

Vertical Datum: NAVD88

Survey number: 10034

Reference Datum:

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 from this lease?
SHL Leg #1	500	FSL	330	FW L	22S	28E	22	Aliquot SWS W	32.3723738	-104.082979	EDD Y	NEW MEXI CO	NEW MEXI CO	F	FEE	3075	0	0	
KOP Leg #1	500	FSL	330	FW L	22S	28E	22	Aliquot SWS W	32.3723738	-104.082978	EDD Y	NEW MEXI CO	NEW MEXI CO	F	FEE	-6652	9727	9727	
PPP Leg #1-1	0	FNL	330	FW L	22S	28E	34	Aliquot NWN W	32.356441	-104.082891	EDD Y	NEW MEXI CO	NEW MEXI CO	F	NMNM 019842 B	-7225	15851	10300	

Operator Name: RIDGE RUNNER RESOURCES OPERATING LLC

Well Name: WARRIOR FED COM 2734 W

Well Number: 1H

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 from this lease?
PPP Leg #1-2	500	FSL	330	FW L	22S	28E	34	Aliquot NWN W	32.3723738	-104.082978	EDD Y	NEW MEXI CO	NEW MEXI CO	F	FEE	-6425	9500	9500	
EXIT Leg #1	100	FSL	330	FW L	22S	28E	34	Aliquot SWS W	32.3421907	-104.0828103	EDD Y	NEW MEXI CO	NEW MEXI CO	F	NMNM 016331	-7225	21035	10300	
BHL Leg #1	100	FSL	330	FW L	22S	28E	34	Aliquot SWS W	32.3421907	-104.0828103	EDD Y	NEW MEXI CO	NEW MEXI CO	F	NMNM 016331	-7225	21035	10300	

**Operator Name:** RIDGE RUNNER RESOURCES OPERATING LLC

**Well Name:** WARRIOR FED COM 2734 W

**Well Number:** 1H

**Pressure Rating (PSI):** 5M

**Rating Depth:** 12000

**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.

**Requesting Variance?** YES

**Variance request:** 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.

**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:  $9625' \text{ TVD} \times 10 \text{ ppg mud} \times 0.052 = 5005 \text{ psi} - 9625' \times 0.22 \text{ psi/ft} = 2118 \text{ psi}$  2887 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:  $10300' \text{ TVD} \times 12.8 \text{ ppg mud} \times 0.052 = 6856 \text{ psi} - 10300' \times 0.22 \text{ psi/ft} = 2266 \text{ psi}$  4590 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:**

Warrior\_2734W\_1H\_BOP\_Choke\_20190211104222.pdf

**BOP Diagram Attachment:**

Warrior\_2734W\_1H\_BOP\_Choke\_20190211104301.pdf

### Section 3 - Casing

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	17.5	13.375	NEW	API	N	0	450	0	450	3075		450	J-55	54.5	ST&C	5.37	12.9 <sup>6</sup>	DRY	24.3	DRY	24.3
2	PRODUCTION	8.5	7.0	NEW	API	Y	0	9600	0	9600	3075		9600	OTHER	26	OTHER - CDC	1.18	1.56	DRY	4.02	DRY	4.02
3	INTERMEDIATE	12.25	9.625	NEW	API	N	0	9625	0	9625	3075		9625	OTHER	47	BUTT	1.15	1.37	DRY	2.93	DRY	2.93
4	PRODUCTION	8.5	5.5	NEW	API	Y	9600	21035	9600	10300			11435	P-110	20	OTHER - CDC	1.62	1.8	DRY	59.2	DRY	59.2

**Operator Name:** RIDGE RUNNER RESOURCES OPERATING LLC

**Well Name:** WARRIOR FED COM 2734 W

**Well Number:** 1H

**Casing Attachments**

**Casing ID:** 1      **String Type:** SURFACE

**Inspection Document:**

**Spec Document:**

**Tapered String Spec:**

**Casing Design Assumptions and Worksheet(s):**

Warrior\_2734W\_1H\_Casing\_Design\_Assumptions\_20190211105212.pdf

**Casing ID:** 2      **String Type:** PRODUCTION

**Inspection Document:**

**Spec Document:**

**Tapered String Spec:**

Warrior\_2734W\_1H\_7in\_Casing\_Spec\_20190211105659.pdf

**Casing Design Assumptions and Worksheet(s):**

Warrior\_2734W\_1H\_Casing\_Design\_Assumptions\_20190211105918.pdf

**Casing ID:** 3      **String Type:** INTERMEDIATE

**Inspection Document:**

**Spec Document:**

**Tapered String Spec:**

**Casing Design Assumptions and Worksheet(s):**

Warrior\_2734W\_1H\_Casing\_Design\_Assumptions\_20190211105427.pdf

**Operator Name:** RIDGE RUNNER RESOURCES OPERATING LLC

**Well Name:** WARRIOR FED COM 2734 W

**Well Number:** 1H

**Casing Attachments**

**Casing ID:** 4      **String Type:** PRODUCTION

**Inspection Document:**

**Spec Document:**

**Tapered String Spec:**

Warrior\_2734W\_1H\_5.5in\_Casing\_Spec\_20190211110029.pdf

**Casing Design Assumptions and Worksheet(s):**

Warrior\_2734W\_1H\_Casing\_Design\_Assumptions\_20190211110137.pdf

**Section 4 - Cement**

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
PRODUCTION	Lead		0	0	0	0	0	0	0	None	None
PRODUCTION	Tail		0	0	0	0	0	0	0	None	None
PRODUCTION	Lead		0	0	0	0	0	0	0	None	None
PRODUCTION	Tail		9125	21035	2425	1.27	14.2	3079	15	50/50/2 Poz/G/gel	Additives
SURFACE	Lead		0	450	0	0	0	0	0	None	None
SURFACE	Tail		0	450	465	1.34	14.8	623	100	Class C	2% CaCl
INTERMEDIATE	Lead		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	9625	1200	2.5	11.3	3000	50	TXI light	5% salt + 4% SMS + additives
INTERMEDIATE	Tail		2700	9625	200	1.19	15.6	238	50	Class H	Additives

**Operator Name:** RIDGE RUNNER RESOURCES OPERATING LLC

**Well Name:** WARRIOR FED COM 2734 W

**Well Number:** 1H

### 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

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	PH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
9625	2103 5	OIL-BASED MUD	12.8	12.8							
0	450	OTHER : Fresh water spud	8.4	9							
450	9625	OTHER : Brine water	10	10							

### 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.

**Operator Name:** RIDGE RUNNER RESOURCES OPERATING LLC

**Well Name:** WARRIOR FED COM 2734 W

**Well Number:** 1H

### Section 7 - Pressure

**Anticipated Bottom Hole Pressure:** 6930

**Anticipated Surface Pressure:** 6930

**Anticipated Bottom Hole Temperature(F):** 158

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

**Describe:**

**Contingency Plans geohazards description:**

**Contingency Plans geohazards attachment:**

**Hydrogen Sulfide drilling operations plan required?** YES

**Hydrogen sulfide drilling operations plan:**

Warrior\_2734W\_1H\_H2S\_Plan\_20190211104524.pdf

### Section 8 - Other Information

**Proposed horizontal/directional/multi-lateral plan submission:**

Warrior\_2734W\_1H\_Horizontal\_Drill\_Plan\_20190211104450.pdf

**Other proposed operations facets description:**

Due to limitations of AFMSS, Intermediate Stage 2 cement specs could not be entered; see attached drill plan.

**Other proposed operations facets attachment:**

Warrior\_2734W\_1H\_Drill\_Plan\_20190211104331.pdf

Warrior\_2734W\_1H\_Speedhead\_Specs\_20190211104339.pdf

Warrior\_2734W\_1H\_Co\_flex\_20190211104433.pdf

**Other Variance attachment:**

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED  
OMB No. 1004-0137  
Expires October 31, 2014

5. Lease Serial No.  
SHL: fee BHL: NMNM-016331

6. If Indian, Allottee or Tribe Name  
N/A

1a. Type of work:  DRILL  REENTER

7. If Unit or CA Agreement, Name and No.  
N/A

1b. Type of Well:  Oil Well  Gas Well  Other  Single Zone  Multiple Zone

8. Lease Name and Well No.  
WARRIOR FED COM 2734 W 1H

2. Name of Operator: RIDGE RUNNER RESOURCES OPERATING, LLC

9. API Well No.  
30-015-

3a. Address: 1004 N. BIG SPRING ST., SUITE 325  
MIDLAND TX 79701

3b. Phone No. (include area code):  
432 684-7877

10. Field and Pool, or Exploratory  
PURPLE SAGE; WOLFCAMP

4. Location of Well: (Report location clearly and in accordance with any State requirements.)  
At surface: 500' FSL & 330' FWL 22-22S-28E  
At proposed prod. zone: 100' FSL & 330' FWL 34-22S-28E

11. Sec., T., R., M. or Bk. and Survey or Area  
SHL: SWSW 22-22S-28E NMPM  
BHL: SWSW 34-22S-28E NMPM

14. Distance in miles and direction from nearest town or post office\*  
6 AIR MILES NNE OF LOVING, NM

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)  
SHL: 330'  
BHL: 330'

16. No. of acres in lease  
SHL: 560.00  
BHL: 519.74

17. Spacing Unit dedicated to this well  
W2 27-22S-28E  
W2 34-22S-28E

18. Distance from proposed location\* to nearest well, drilling completed, applied for, on this lease, ft.  
SHL: 1657'  
(Big Chief Com-2)

19. Proposed Depth  
TVD: 10300'  
MD: 21035'

20. BLM/BIA Bond No. on file  
BLM NMB001616

21. Elevations (Show whether DF, KDB, RT, GL, etc.)  
3075' UNGRADED

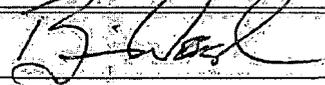
22. Approximate date work will start\*  
03/01/2019

23. Estimated duration:  
4 MONTHS

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, must be attached to this form:

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

25. Signature: 

Name: (Printed/Typed)  
BRIAN WOOD (PHONE: 505 466-8120)

Date:  
01/06/2019

Title  
CONSULTANT

(FAX: 505.466.9682)

Approved by (Signature):

Name: (Printed/Typed):

Date:

Title:

Office:

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.  
Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Continued on page 2)

\*(Instructions on page 2)

District I  
1625 N. French Dr., Hobbs, NM 88240  
Phone: (575) 393-6161 Fax: (575) 393-0720  
District II  
811 S. First St., Artesia, NM 88210  
Phone: (575) 748-1283 Fax: (575) 748-9720  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
Phone: (505) 334-6178 Fax: (505) 334-6170  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505  
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico  
Energy, Minerals & Natural Resources Department  
OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

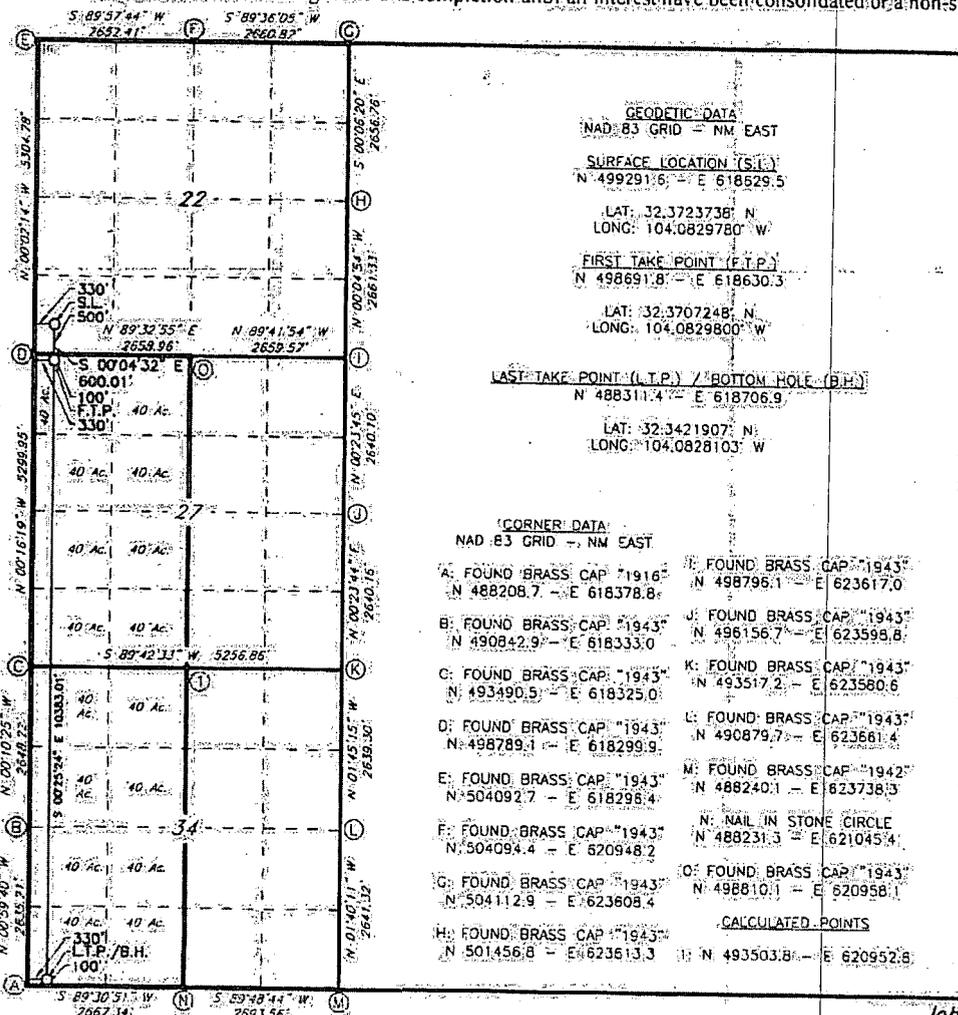
Form C-102  
Revised August 1, 2011  
Submit one copy to appropriate  
District Office

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

30-015- <sup>1</sup> API Number		<sup>3</sup> Pool Code 98220		<sup>2</sup> Pool Name PURPLE SAGE, WOLFCAMP					
<sup>4</sup> Property Code		<sup>5</sup> Property Name WARRIOR FED COM 2734 W			<sup>6</sup> Well Number 1H				
<sup>7</sup> GRID NO. 373013		<sup>8</sup> Operator Name RIDGE RUNNER RESOURCES OPERATING, LLC			<sup>9</sup> Elevation 3075'				
<sup>10</sup> Surface Location									
<sup>10</sup> U/L or lot no. M	<sup>11</sup> Section 22	<sup>12</sup> Township 22S	<sup>13</sup> Range 28E	<sup>14</sup> Lot Idn.	<sup>15</sup> Feet from the 500	<sup>16</sup> North/South line SOUTH	<sup>17</sup> Feet from the 330	<sup>18</sup> East/West line WEST	<sup>19</sup> County EDDY
<sup>11</sup> Bottom Hole Location If Different From Surface									
<sup>10</sup> U/L or lot no. M	<sup>11</sup> Section 34	<sup>12</sup> Township 22S	<sup>13</sup> Range 28E	<sup>14</sup> Lot Idn.	<sup>15</sup> Feet from the 100	<sup>16</sup> North/South line SOUTH	<sup>17</sup> Feet from the 330	<sup>18</sup> East/West line WEST	<sup>19</sup> County EDDY
<sup>12</sup> Dedicated Acres 640.00	<sup>13</sup> Joint or Infill		<sup>14</sup> Consolidation Code C	<sup>15</sup> Order No.					

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



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

Signature: *Brian Wood* Date: 1-6-19  
Printed Name: BRIAN WOOD  
E-mail Address: brian@permitswest.com  
505-466-8120

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

12-11-2018  
Date of Survey  
Signature and Seal of *Jeffrey L. Fansler*  
10034  
Certificate Number  
1.4.19 CHANGE AREA

Job No.: LS1811310

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 S. First St., Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

Submit Original  
to Appropriate  
District Office

**GAS CAPTURE PLAN**

Date: 1-6-19

Original Operator & OGRID No.: Ridge Runner Resources Operating, LLC (373013)  
 Amended - Reason for Amendment:

This Gas Capture Plan outlines actions to be taken by the Operator to reduce well/production facility flaring/venting for new completion (new drill, recomplete to new zone, re-frac) activity.

Note: Form C-129 must be submitted and approved prior to exceeding 60 days allowed by Rule (Subsection A of 19.15.18.12 NMAC).

**Well(s)/Production Facility – Name of facility**

The well(s) that will be located at the production facility are shown in the table below.

Well Name & Number	API	SHL (ULSTR)	SHL Footages	Expected MCF/D	Flare or Vent	Comments
Warrior Fed Com 2734 W 1H	30-015-	M-22-22s-28e	500' FSL & 330' FWL	5000	<30 days	flare until well clean, then connect
Warrior Fed Com 2734 W 2H	30-015-	M-22-22s-28e	500' FSL & 360' FWL	5000	<30 days	flare until well clean, then connect
Warrior Fed Com 2734 B 1H	30-015-	M-22-22s-28e	500' FSL & 390' FWL	750	<30 days	flare until well clean, then connect

**Gathering System and Pipeline Notification**

Well(s) will be connected to a production facility after flowback operations are complete, if gas transporter system is in place. The gas produced from production facility is not yet dedicated, but will be connected to a 3<sup>rd</sup> party gathering system located in Eddy County, New Mexico. (DCP has lines 1.5 miles southeast.) It will require an unknown length of pipeline to connect the facility to a gathering system. Operator provides (periodically) to Gas Transporter a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, Operator and Gas Transporter have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at an unknown Processing Plant located in Eddy County, New Mexico. The actual flow of the gas will be based on compression operating parameters and gathering system pressures.

**Flowback Strategy**

After the fracture treatment/completion operations, well(s) will be produced to temporary production tanks and gas will be flared or vented. During flowback, the fluids and sand content will be monitored. When the produced fluids contain minimal sand, the wells will be turned to production facilities. Gas sales should start as soon as the wells start flowing through the production facilities, unless there are operational issues on Gas Transporter system at that time. Based on current information, it is Operator's belief the system can take this gas upon completion of the well(s).

Safety requirements during cleanout operations from the use of underbalanced air cleanout systems may necessitate that sand and non-pipeline quality gas be vented and/or flared rather than sold on a temporary basis.

**Alternatives to Reduce Flaring**

Below are alternatives considered from a conceptual standpoint to reduce the amount of gas flared.

- Power Generation – On lease
  - Only a portion of gas is consumed operating the generator, remainder of gas will be flared
- Compressed Natural Gas – On lease
  - Gas flared would be minimal, but might be uneconomical to operate when gas volume declines
- NGL Removal – On lease
  - Plants are expensive, residue gas is still flared, and uneconomical to operate when gas volume declines

Ridge Runner Resources Operating, LLC  
 Warrior Fed Com 2734 W 1H  
 SHL 500' FSL & 330' FWL 22-22s-28e  
 BHL 100' FSL & 330' FWL 34-22s-28e  
 Eddy County, NM

DRILL PLAN PAGE 1

'fee/fee/Fed well'

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'	N/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	6145'	6145'	hydrocarbons
1 <sup>st</sup> Bone Spring sandstone	7175'	7175'	hydrocarbons
2 <sup>nd</sup> Bone Spring sandstone	8000'	8000'	hydrocarbons
3 <sup>rd</sup> Bone Spring carbonate	8325'	8325'	hydrocarbons
3 <sup>rd</sup> Bone Spring sandstone	9200'	9200'	hydrocarbons
Wolfcamp carbonate (goal)	9500'	9500'	hydrocarbons
(KOP	9728'	9728'	hydrocarbons)
TD	10300'	21035'	hydrocarbons

2. NOTABLE ZONES

Wolfcamp XY is the goal. Closest water well (C 00036) is 2.13 miles southwest. Depth to water was not reported in the 106' deep well.

Ridge Runner Resources Operating, LLC  
Warrior Fed Com 2734 W 1H  
SHL 500' FSL & 330' FWL 22-22s-28e  
BHL 100' FSL & 330' FWL 34-22s-28e  
Eddy County, NM

DRILL PLAN PAGE 2

'fee/fee/Fed well'

### 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:

$$\begin{aligned} &9625' \text{ TVD} \times 10 \text{ ppg mud} \times 0.052 = 5005 \text{ psi} \\ &\underline{- 9625' \times 0.22 \text{ psi/ft} = 2118 \text{ psi}} \\ &2887 \text{ psi} \end{aligned}$$

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:

$$\begin{aligned} &10300' \text{ TVD} \times 12.8 \text{ ppg mud} \times 0.052 = 6856 \text{ psi} \\ &\underline{- 10300' \times 0.22 \text{ psi/ft} = 2266 \text{ psi}} \\ &4590 \text{ psi} \end{aligned}$$

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  
 Warrior Fed Com 2734 W 1H  
 SHL 500' FSL & 330' FWL 22-22s-28e  
 BHL 100' FSL & 330' FWL 34-22s-28e  
 Eddy County, NM

'fee/fee/Fed well'

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 or 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' - 9625'	0' - 9625'	Inter. 9.625"	47	L-80 HC	BTC	1.15 (10.0#)	1.37 (10.0#)	2.93 (10.0#)
8.5"	0' - 9600'	0' - 9600'	Prod. 1 7"	26	P-110 HC	CDC	1.18	1.56	4.02
8.5"	9600' - 21035'	9600' - 10300'	Prod. 2 5.5"	20	P-110	CDC	1.62 (12.8#)	1.80 (12.8#)	59.2 (12.8#)

Ridge Runner Resources Operating, LLC  
 Warrior Fed Com 2734 W 1H  
 SHL 500' FSL & 330' FWL 22-22s-28e  
 BHL 100' FSL & 330' FWL 34-22s-28e  
 Eddy County, NM

DRILL PLAN PAGE 4

'fee/fee/Fed well'

Name	Type	Sacks	Yield	Cu. Ft.	Weight	Blend
Surface	Tail	465	1.34	623	14.8	Class C + 2% CaCl
TOC = GL		100% Excess			Centralizers: shoe joint + every 3 <sup>rd</sup> joint to GL	
Intermediate Stage 1 (9625' - 2700')	Lead	1200	2.50	3000	11.3	TXI light + 5% salt + 4% SMS + additives
	Tail	200	1.19	238	15.6	Class H + additives
TOC = 2700'		50% Excess			Centralizers: shoe joint + above & below DV tool + every 4 <sup>th</sup> joint from shoe to GL	
Intermediate Stage 2 (2700' - GL)	Lead	640	2.19	1401	12.7	Class C + 6% gel + 5% salt + additives
	Tail	135	1.32	178	14.8	Class C
TOC = GL		100% Excess			Centralizers: shoe joint + above & below DV tool + every 4 <sup>th</sup> joint from shoe to GL	
Production	Tail	2425	1.27	3079	14.2	50/50/2 Poz/G/gel + additives
TOC = 9125' (500' above intermediate shoe)		15% Excess			Centralizers: shoe joint + every 4 <sup>th</sup> 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.

Ridge Runner Resources Operating, LLC  
Warrior Fed Com 2734 W 1H  
SHL 500' FSL & 330' FWL 22-22s-28e  
BHL 100' FSL & 330' FWL 34-22s-28e  
Eddy County, NM

DRILL PLAN PAGE 5

'fee/fee/Fed well'

Type	Interval (MD)	lb/gal	Viscosity	Fluid Loss
fresh water spud mud	0' - 450'	8.4 - 9.0	28-34	N/C
brine water	450' - 9625'	10.0	28-30	N/C
oil based mud	9625' - 21035'	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  $\approx 6930$  psig. Expected bottom hole temperature is  $\approx 158$  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  $\approx 4$  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 nipples 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.



Project: Eddy County, NM (NAD83)  
 Site: Warrior Fed Com  
 Well: Warrior Fed Com 2734W 1H  
 Depth Reference: GL 3075' + 30' KB @ 3105.00usft (Rig TBD)  
 SHL Northing: 499291.60  
 SHL Easting: 618629.50  
 Rig: Rig TBD  
 Plan: plan1



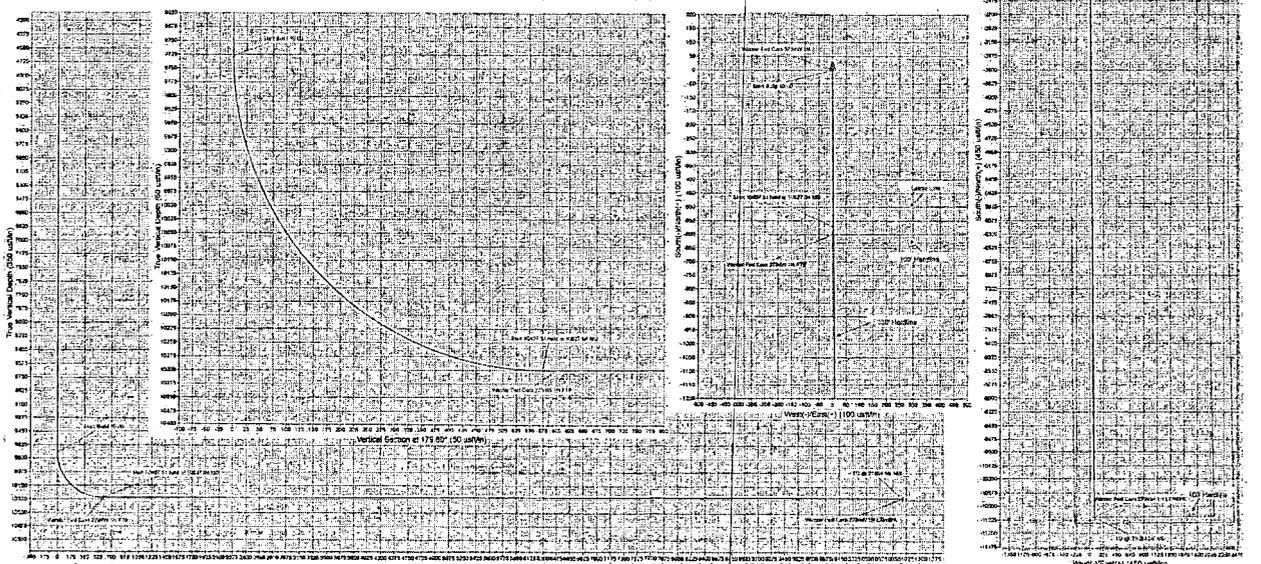
SECTION DETAILS										FORMATION TOP DETAILS
MD	Inc	Air	TVD	+NLS	-E-W	Diag	TFace	VFace	Annotation	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		No formation data is available
9737.04	0.00	0.00	9737.04	0.00	0.00	0.00	0.00	0.00	Start B-34 10.00	
19627.04	00.00	178.50	10300.00	-572.84	4.04	10.00	178.50	572.99	Start 10407.51 hole at 10637.04 MD	
21034.58	00.00	179.50	10300.00	-10999.20	77.40	0.00	0.00	10636.47	TD @ 21034.58 MD	

DESIGN TARGET DETAILS					
Name	TVD	+NLS	-E-W	Easting	Northing
Warrior Fed Com 2734W 1H (FTT)	10300.00	-326.89	0.40	496091.30	618630.20
Warrior Fed Com 2734W 1H (LTPRHL)	10300.00	-10650.20	77.40	458311.40	618706.90

MAGNETIC FIELD	
Strength	Dir. Angle
47996.3mT	65.12°
Date: 5/16/22/2019	
Model: HX004	



<b>Database:</b>	EDM 5000.14 Single User Db	<b>Local Co-ordinate Reference:</b>	Well Warrior Fed Com 2734W 1H
<b>Company:</b>	Ridge Runner Resources	<b>TVD Reference:</b>	GL 3075' + 30' KB @ 3105.00usft (Rig TBD)
<b>Project:</b>	Eddy County, NM (NAD83)	<b>MD Reference:</b>	GL 3075' + 30' KB @ 3105.00usft (Rig TBD)
<b>Site:</b>	Warrior Fed Com	<b>North Reference:</b>	Grid
<b>Well:</b>	Warrior Fed Com 2734W 1H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	plan1		

<b>Project:</b>	Eddy County, NM (NAD83)		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	New Mexico Eastern Zone		

<b>Site:</b>	Warrior Fed Com		
<b>Site Position:</b>	<b>Northing:</b>	499,291.60 usft	<b>Latitude:</b> 32° 22' 20.545 N
<b>From:</b> Map	<b>Easting:</b>	618,629.50 usft	<b>Longitude:</b> 104° 4' 58.721 W
<b>Position Uncertainty:</b> 0.00 usft	<b>Slot Radius:</b>	13-3/16"	<b>Grid Convergence:</b> 0.13°

<b>Well:</b>	Warrior Fed Com 2734W 1H		
<b>Well Position</b>	<b>+N/-S</b>	0.00 usft	<b>Northing:</b> 499,291.60 usft
	<b>+E/-W</b>	0.00 usft	<b>Easting:</b> 618,629.50 usft
<b>Position Uncertainty</b>	0.00 usft		<b>Wellhead Elevation:</b>
			<b>Latitude:</b> 32° 22' 20.545 N
			<b>Longitude:</b> 104° 4' 58.721 W
			<b>Ground Level:</b> 3,075.00 usft

<b>Wellbore:</b>	Wellbore #1				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	HDGM	01/02/19	7.23	60.12	47,966.30000000

<b>Design:</b>	plan1			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PROTOTYPE	<b>Tie On Depth:</b> 0.00	
<b>Vertical Section:</b>	<b>Depth From (TVD) (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Direction (°)</b>
	0.00	0.00	0.00	179.60

<b>Plan Survey Tool Program</b>	<b>Date</b>	01/02/19		
<b>Depth From (usft)</b>	<b>Depth To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Remarks</b>
1	0.00	21,034.56 plan1 (Wellbore #1)	MWD	MWD - Standard

<b>Plan Sections</b>										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9,727.04	0.00	0.00	9,727.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10,627.04	90.00	179.60	10,300.00	-572.94	4.04	10.00	10.00	0.00	179.60	
21,034.56	90.00	179.60	10,300.00	-10,980.20	77.40	0.00	0.00	0.00	0.00	

Database:	EDM.5000.14 Single User Db.	Local Co-ordinate Reference:	Well Warrior Fed Com 2734W.1H
Company:	Ridge Runner Resources.	TVD Reference:	GL 3075' + 30' KB @ 3105.00usft (Rig TBD)
Project:	Eddy County, NM (NAD83).	MDI Reference:	GL 3075' + 30' KB @ 3105.00usft (Rig TBD)
Site:	Warrior Fed Com	North Reference:	Grid
Well:	Warrior Fed Com 2734W 1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	plan1.		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.00	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	0.00
200.00	0.00	0.00	200.00	0.00	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	0.00
400.00	0.00	0.00	400.00	0.00	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	0.00
600.00	0.00	0.00	600.00	0.00	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	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	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	0.00
1,300.00	0.00	0.00	1,300.00	0.00	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	0.00
1,500.00	0.00	0.00	1,500.00	0.00	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	0.00
1,700.00	0.00	0.00	1,700.00	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	0.00
1,900.00	0.00	0.00	1,900.00	0.00	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	0.00
2,100.00	0.00	0.00	2,100.00	0.00	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	0.00
2,300.00	0.00	0.00	2,300.00	0.00	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	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	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	0.00
2,800.00	0.00	0.00	2,800.00	0.00	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	0.00
3,000.00	0.00	0.00	3,000.00	0.00	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	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	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	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	0.00
3,600.00	0.00	0.00	3,600.00	0.00	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	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	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	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	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	0.00	4,200.00	0.00	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	0.00	0.00	0.00
4,400.00	0.00	0.00	4,400.00	0.00	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	0.00
4,600.00	0.00	0.00	4,600.00	0.00	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	0.00	0.00	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	0.00
4,900.00	0.00	0.00	4,900.00	0.00	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	0.00
5,100.00	0.00	0.00	5,100.00	0.00	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	0.00
5,300.00	0.00	0.00	5,300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

<b>Database:</b>	EDM 5000.14 Single User Db	<b>Local Co-ordinate Reference:</b>	Well: Warrior Fed Com 2734W 1H
<b>Company:</b>	Ridge Runner Resources	<b>TVD Reference:</b>	GL 3075' + 30' KB @ 3105.00usft (Rig TBD)
<b>Project:</b>	Eddy County, NM (NAD83)	<b>MD Reference:</b>	GL 3075' + 30' KB @ 3105.00usft (Rig TBD)
<b>Site:</b>	Warrior Fed Com	<b>North Reference:</b>	Grid
<b>Well:</b>	Warrior Fed Com 2734W 1H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	plan1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
5,400.00	0.00	0.00	5,400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5,500.00	0.00	0.00	5,500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5,600.00	0.00	0.00	5,600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5,700.00	0.00	0.00	5,700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5,800.00	0.00	0.00	5,800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5,900.00	0.00	0.00	5,900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6,000.00	0.00	0.00	6,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6,100.00	0.00	0.00	6,100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6,200.00	0.00	0.00	6,200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6,300.00	0.00	0.00	6,300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6,400.00	0.00	0.00	6,400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6,500.00	0.00	0.00	6,500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6,600.00	0.00	0.00	6,600.00	0.00	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	0.00
6,800.00	0.00	0.00	6,800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6,900.00	0.00	0.00	6,900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7,000.00	0.00	0.00	7,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7,100.00	0.00	0.00	7,100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7,200.00	0.00	0.00	7,200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7,300.00	0.00	0.00	7,300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7,400.00	0.00	0.00	7,400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7,500.00	0.00	0.00	7,500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7,600.00	0.00	0.00	7,600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7,700.00	0.00	0.00	7,700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7,800.00	0.00	0.00	7,800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7,900.00	0.00	0.00	7,900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8,000.00	0.00	0.00	8,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8,100.00	0.00	0.00	8,100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8,200.00	0.00	0.00	8,200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8,300.00	0.00	0.00	8,300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8,400.00	0.00	0.00	8,400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8,500.00	0.00	0.00	8,500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8,600.00	0.00	0.00	8,600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8,700.00	0.00	0.00	8,700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8,800.00	0.00	0.00	8,800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8,900.00	0.00	0.00	8,900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9,000.00	0.00	0.00	9,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9,100.00	0.00	0.00	9,100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9,200.00	0.00	0.00	9,200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9,300.00	0.00	0.00	9,300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9,400.00	0.00	0.00	9,400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9,500.00	0.00	0.00	9,500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9,600.00	0.00	0.00	9,600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9,700.00	0.00	0.00	9,700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9,727.04	0.00	0.00	9,727.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Start Build 10.00</b>										
9,800.00	7.30	179.60	9,799.80	-4.64	0.03	4.64	10.00	10.00	0.00	0.00
9,900.00	17.30	179.60	9,897.39	-25.91	0.18	25.91	10.00	10.00	0.00	0.00
10,000.00	27.30	179.60	9,989.79	-63.80	0.45	63.80	10.00	10.00	0.00	0.00
10,100.00	37.30	179.60	10,074.21	-117.16	0.83	117.16	10.00	10.00	0.00	0.00
10,200.00	47.30	179.60	10,148.09	-184.37	1.30	184.37	10.00	10.00	0.00	0.00
10,300.00	57.30	179.60	10,209.17	-263.38	1.86	263.39	10.00	10.00	0.00	0.00
10,400.00	67.30	179.60	10,255.60	-351.80	2.48	351.81	10.00	10.00	0.00	0.00

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<b>Company:</b>	Ridge Runner Resources	<b>TVD Reference:</b>	GL 3075' + 30' KB @ 3105.00usft (Rig TBD)
<b>Project:</b>	Eddy County, NM. (NAD83)	<b>MD Reference:</b>	GL 3075' + 30' KB @ 3105.00usft (Rig TBD)
<b>Site:</b>	Warrior Fed Com	<b>North Reference:</b>	Grid
<b>Well:</b>	Warrior Fed Com 2734W 1H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore Design:</b>	Wellbore #1 plan1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/S (usft)	+E/W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,500.00	77.30	179.60	10,285.97	-446.94	3.15	446.95	10.00	10.00	0.00
10,600.00	87.30	179.60	10,299.36	-545.91	3.85	545.93	10.00	10.00	0.00
10,627.04	90.00	179.60	10,300.00	-572.94	4.04	572.96	10.00	10.00	0.00
<b>Start 10407.51 hold at 10627.04 MD</b>									
10,653.88	90.00	179.60	10,300.00	-599.78	4.23	599.79	0.00	0.00	0.00
<b>Warrior Fed Com 2734W 1H FTP</b>									
10,700.00	90.00	179.60	10,300.00	-645.90	4.55	645.92	0.00	0.00	0.00
10,800.00	90.00	179.60	10,300.00	-745.90	5.26	745.92	0.00	0.00	0.00
10,900.00	90.00	179.60	10,300.00	-845.89	5.96	845.92	0.00	0.00	0.00
11,000.00	90.00	179.60	10,300.00	-945.89	6.67	945.92	0.00	0.00	0.00
11,100.00	90.00	179.60	10,300.00	-1,045.89	7.37	1,045.92	0.00	0.00	0.00
11,200.00	90.00	179.60	10,300.00	-1,145.89	8.08	1,145.92	0.00	0.00	0.00
11,300.00	90.00	179.60	10,300.00	-1,245.88	8.78	1,245.92	0.00	0.00	0.00
11,400.00	90.00	179.60	10,300.00	-1,345.88	9.49	1,345.92	0.00	0.00	0.00
11,500.00	90.00	179.60	10,300.00	-1,445.88	10.19	1,445.92	0.00	0.00	0.00
11,600.00	90.00	179.60	10,300.00	-1,545.88	10.90	1,545.92	0.00	0.00	0.00
11,700.00	90.00	179.60	10,300.00	-1,645.87	11.60	1,645.92	0.00	0.00	0.00
11,800.00	90.00	179.60	10,300.00	-1,745.87	12.31	1,745.92	0.00	0.00	0.00
11,900.00	90.00	179.60	10,300.00	-1,845.87	13.01	1,845.92	0.00	0.00	0.00
12,000.00	90.00	179.60	10,300.00	-1,945.87	13.72	1,945.92	0.00	0.00	0.00
12,100.00	90.00	179.60	10,300.00	-2,045.86	14.42	2,045.92	0.00	0.00	0.00
12,200.00	90.00	179.60	10,300.00	-2,145.86	15.13	2,145.92	0.00	0.00	0.00
12,300.00	90.00	179.60	10,300.00	-2,245.86	15.83	2,245.92	0.00	0.00	0.00
12,400.00	90.00	179.60	10,300.00	-2,345.86	16.54	2,345.92	0.00	0.00	0.00
12,500.00	90.00	179.60	10,300.00	-2,445.85	17.24	2,445.92	0.00	0.00	0.00
12,600.00	90.00	179.60	10,300.00	-2,545.85	17.95	2,545.92	0.00	0.00	0.00
12,700.00	90.00	179.60	10,300.00	-2,645.85	18.65	2,645.92	0.00	0.00	0.00
12,800.00	90.00	179.60	10,300.00	-2,745.85	19.36	2,745.92	0.00	0.00	0.00
12,900.00	90.00	179.60	10,300.00	-2,845.84	20.06	2,845.92	0.00	0.00	0.00
13,000.00	90.00	179.60	10,300.00	-2,945.84	20.77	2,945.92	0.00	0.00	0.00
13,100.00	90.00	179.60	10,300.00	-3,045.84	21.47	3,045.92	0.00	0.00	0.00
13,200.00	90.00	179.60	10,300.00	-3,145.84	22.18	3,145.92	0.00	0.00	0.00
13,300.00	90.00	179.60	10,300.00	-3,245.84	22.88	3,245.92	0.00	0.00	0.00
13,400.00	90.00	179.60	10,300.00	-3,345.83	23.58	3,345.92	0.00	0.00	0.00
13,500.00	90.00	179.60	10,300.00	-3,445.83	24.29	3,445.92	0.00	0.00	0.00
13,600.00	90.00	179.60	10,300.00	-3,545.83	24.99	3,545.92	0.00	0.00	0.00
13,700.00	90.00	179.60	10,300.00	-3,645.83	25.70	3,645.92	0.00	0.00	0.00
13,800.00	90.00	179.60	10,300.00	-3,745.82	26.40	3,745.92	0.00	0.00	0.00
13,900.00	90.00	179.60	10,300.00	-3,845.82	27.11	3,845.92	0.00	0.00	0.00
14,000.00	90.00	179.60	10,300.00	-3,945.82	27.81	3,945.92	0.00	0.00	0.00
14,100.00	90.00	179.60	10,300.00	-4,045.82	28.52	4,045.92	0.00	0.00	0.00
14,200.00	90.00	179.60	10,300.00	-4,145.81	29.22	4,145.92	0.00	0.00	0.00
14,300.00	90.00	179.60	10,300.00	-4,245.81	29.93	4,245.92	0.00	0.00	0.00
14,400.00	90.00	179.60	10,300.00	-4,345.81	30.63	4,345.92	0.00	0.00	0.00
14,500.00	90.00	179.60	10,300.00	-4,445.81	31.34	4,445.92	0.00	0.00	0.00
14,600.00	90.00	179.60	10,300.00	-4,545.80	32.04	4,545.92	0.00	0.00	0.00
14,700.00	90.00	179.60	10,300.00	-4,645.80	32.75	4,645.92	0.00	0.00	0.00
14,800.00	90.00	179.60	10,300.00	-4,745.80	33.45	4,745.92	0.00	0.00	0.00
14,900.00	90.00	179.60	10,300.00	-4,845.80	34.16	4,845.92	0.00	0.00	0.00
15,000.00	90.00	179.60	10,300.00	-4,945.79	34.86	4,945.92	0.00	0.00	0.00
15,100.00	90.00	179.60	10,300.00	-5,045.79	35.57	5,045.92	0.00	0.00	0.00
15,200.00	90.00	179.60	10,300.00	-5,145.79	36.27	5,145.92	0.00	0.00	0.00
15,300.00	90.00	179.60	10,300.00	-5,245.79	36.98	5,245.92	0.00	0.00	0.00
15,400.00	90.00	179.60	10,300.00	-5,345.78	37.68	5,345.92	0.00	0.00	0.00

<b>Database:</b>	EDM 5000.14 Single User Db.	<b>Local Co-ordinate Reference:</b>	Well Warrior Fed Com:2734W.1H
<b>Company:</b>	Ridge Runner Resources:	<b>TVD/Reference:</b>	GL 3075' + 30' KB @ 3105.00usft (Rig:TBD)
<b>Project:</b>	Eddy County, NM (NAD83)	<b>MD/Reference:</b>	GL 3075' + 30' KB @ 3105.00usft (Rig:TBD)
<b>Site:</b>	Warrior Fed Com	<b>North Reference:</b>	Grid
<b>Well:</b>	Warrior Fed Com:2734W.1H.	<b>Survey/Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	plan1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (%/100usft)	Build Rate (%/100usft)	Turn Rate (%/100usft)	
15,500.00	90.00	179.60	10,300.00	-5,445.78	38.39	5,445.92	0.00	0.00	0.00	
15,600.00	90.00	179.60	10,300.00	-5,545.78	39.09	5,545.92	0.00	0.00	0.00	
15,700.00	90.00	179.60	10,300.00	-5,645.78	39.80	5,645.92	0.00	0.00	0.00	
15,800.00	90.00	179.60	10,300.00	-5,745.77	40.50	5,745.92	0.00	0.00	0.00	
15,900.00	90.00	179.60	10,300.00	-5,845.77	41.21	5,845.92	0.00	0.00	0.00	
16,000.00	90.00	179.60	10,300.00	-5,945.77	41.91	5,945.92	0.00	0.00	0.00	
16,100.00	90.00	179.60	10,300.00	-6,045.77	42.62	6,045.92	0.00	0.00	0.00	
16,200.00	90.00	179.60	10,300.00	-6,145.76	43.32	6,145.92	0.00	0.00	0.00	
16,300.00	90.00	179.60	10,300.00	-6,245.76	44.03	6,245.92	0.00	0.00	0.00	
16,400.00	90.00	179.60	10,300.00	-6,345.76	44.73	6,345.92	0.00	0.00	0.00	
16,500.00	90.00	179.60	10,300.00	-6,445.76	45.44	6,445.92	0.00	0.00	0.00	
16,600.00	90.00	179.60	10,300.00	-6,545.75	46.14	6,545.92	0.00	0.00	0.00	
16,700.00	90.00	179.60	10,300.00	-6,645.75	46.85	6,645.92	0.00	0.00	0.00	
16,800.00	90.00	179.60	10,300.00	-6,745.75	47.55	6,745.92	0.00	0.00	0.00	
16,900.00	90.00	179.60	10,300.00	-6,845.75	48.26	6,845.92	0.00	0.00	0.00	
17,000.00	90.00	179.60	10,300.00	-6,945.74	48.96	6,945.92	0.00	0.00	0.00	
17,100.00	90.00	179.60	10,300.00	-7,045.74	49.67	7,045.92	0.00	0.00	0.00	
17,200.00	90.00	179.60	10,300.00	-7,145.74	50.37	7,145.92	0.00	0.00	0.00	
17,300.00	90.00	179.60	10,300.00	-7,245.74	51.08	7,245.92	0.00	0.00	0.00	
17,400.00	90.00	179.60	10,300.00	-7,345.73	51.78	7,345.92	0.00	0.00	0.00	
17,500.00	90.00	179.60	10,300.00	-7,445.73	52.49	7,445.92	0.00	0.00	0.00	
17,600.00	90.00	179.60	10,300.00	-7,545.73	53.19	7,545.92	0.00	0.00	0.00	
17,700.00	90.00	179.60	10,300.00	-7,645.73	53.90	7,645.92	0.00	0.00	0.00	
17,800.00	90.00	179.60	10,300.00	-7,745.72	54.60	7,745.92	0.00	0.00	0.00	
17,900.00	90.00	179.60	10,300.00	-7,845.72	55.30	7,845.92	0.00	0.00	0.00	
18,000.00	90.00	179.60	10,300.00	-7,945.72	56.01	7,945.92	0.00	0.00	0.00	
18,100.00	90.00	179.60	10,300.00	-8,045.72	56.71	8,045.92	0.00	0.00	0.00	
18,200.00	90.00	179.60	10,300.00	-8,145.71	57.42	8,145.92	0.00	0.00	0.00	
18,300.00	90.00	179.60	10,300.00	-8,245.71	58.12	8,245.92	0.00	0.00	0.00	
18,400.00	90.00	179.60	10,300.00	-8,345.71	58.83	8,345.92	0.00	0.00	0.00	
18,500.00	90.00	179.60	10,300.00	-8,445.71	59.53	8,445.92	0.00	0.00	0.00	
18,600.00	90.00	179.60	10,300.00	-8,545.70	60.24	8,545.92	0.00	0.00	0.00	
18,700.00	90.00	179.60	10,300.00	-8,645.70	60.94	8,645.92	0.00	0.00	0.00	
18,800.00	90.00	179.60	10,300.00	-8,745.70	61.65	8,745.92	0.00	0.00	0.00	
18,900.00	90.00	179.60	10,300.00	-8,845.70	62.35	8,845.92	0.00	0.00	0.00	
19,000.00	90.00	179.60	10,300.00	-8,945.69	63.06	8,945.92	0.00	0.00	0.00	
19,100.00	90.00	179.60	10,300.00	-9,045.69	63.76	9,045.92	0.00	0.00	0.00	
19,200.00	90.00	179.60	10,300.00	-9,145.69	64.47	9,145.92	0.00	0.00	0.00	
19,300.00	90.00	179.60	10,300.00	-9,245.69	65.17	9,245.92	0.00	0.00	0.00	
19,400.00	90.00	179.60	10,300.00	-9,345.68	65.88	9,345.92	0.00	0.00	0.00	
19,500.00	90.00	179.60	10,300.00	-9,445.68	66.58	9,445.92	0.00	0.00	0.00	
19,600.00	90.00	179.60	10,300.00	-9,545.68	67.29	9,545.92	0.00	0.00	0.00	
19,700.00	90.00	179.60	10,300.00	-9,645.68	67.99	9,645.92	0.00	0.00	0.00	
19,800.00	90.00	179.60	10,300.00	-9,745.67	68.70	9,745.92	0.00	0.00	0.00	
19,900.00	90.00	179.60	10,300.00	-9,845.67	69.40	9,845.92	0.00	0.00	0.00	
20,000.00	90.00	179.60	10,300.00	-9,945.67	70.11	9,945.92	0.00	0.00	0.00	
20,100.00	90.00	179.60	10,300.00	-10,045.67	70.81	10,045.92	0.00	0.00	0.00	
20,200.00	90.00	179.60	10,300.00	-10,145.66	71.52	10,145.92	0.00	0.00	0.00	
20,300.00	90.00	179.60	10,300.00	-10,245.66	72.22	10,245.92	0.00	0.00	0.00	
20,400.00	90.00	179.60	10,300.00	-10,345.66	72.93	10,345.92	0.00	0.00	0.00	
20,500.00	90.00	179.60	10,300.00	-10,445.66	73.63	10,445.92	0.00	0.00	0.00	
20,600.00	90.00	179.60	10,300.00	-10,545.65	74.34	10,545.92	0.00	0.00	0.00	
20,700.00	90.00	179.60	10,300.00	-10,645.65	75.04	10,645.92	0.00	0.00	0.00	
20,800.00	90.00	179.60	10,300.00	-10,745.65	75.75	10,745.92	0.00	0.00	0.00	

<b>Database:</b>	EDM 5000.14.Single User Db	<b>Local Co-ordinate Reference:</b>	Well:Warrior Fed Com 2734W 1H
<b>Company:</b>	Ridge Runner Resources	<b>TVD Reference:</b>	GL 3075' + 30' KB @ 3105.00usft (Rig TBD)
<b>Project:</b>	Eddy County, NM (NAD83)	<b>MD Reference:</b>	GL 3075' + 30' KB @ 3105.00usft (Rig TBD)
<b>Site:</b>	Warrior Fed Com	<b>North Reference:</b>	Grid:
<b>Well:</b>	Warrior Fed Com 2734W 1H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	plan1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/S (usft)	+E/W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
20,900.00	90.00	179.60	10,300.00	-10,845.65	76.45	10,845.92	0.00	0.00	0.00
21,000.00	90.00	179.60	10,300.00	-10,945.64	77.16	10,945.92	0.00	0.00	0.00
21,034.56	90.00	179.60	10,300.00	-10,980.20	77.40	10,980.47	0.00	0.00	0.00

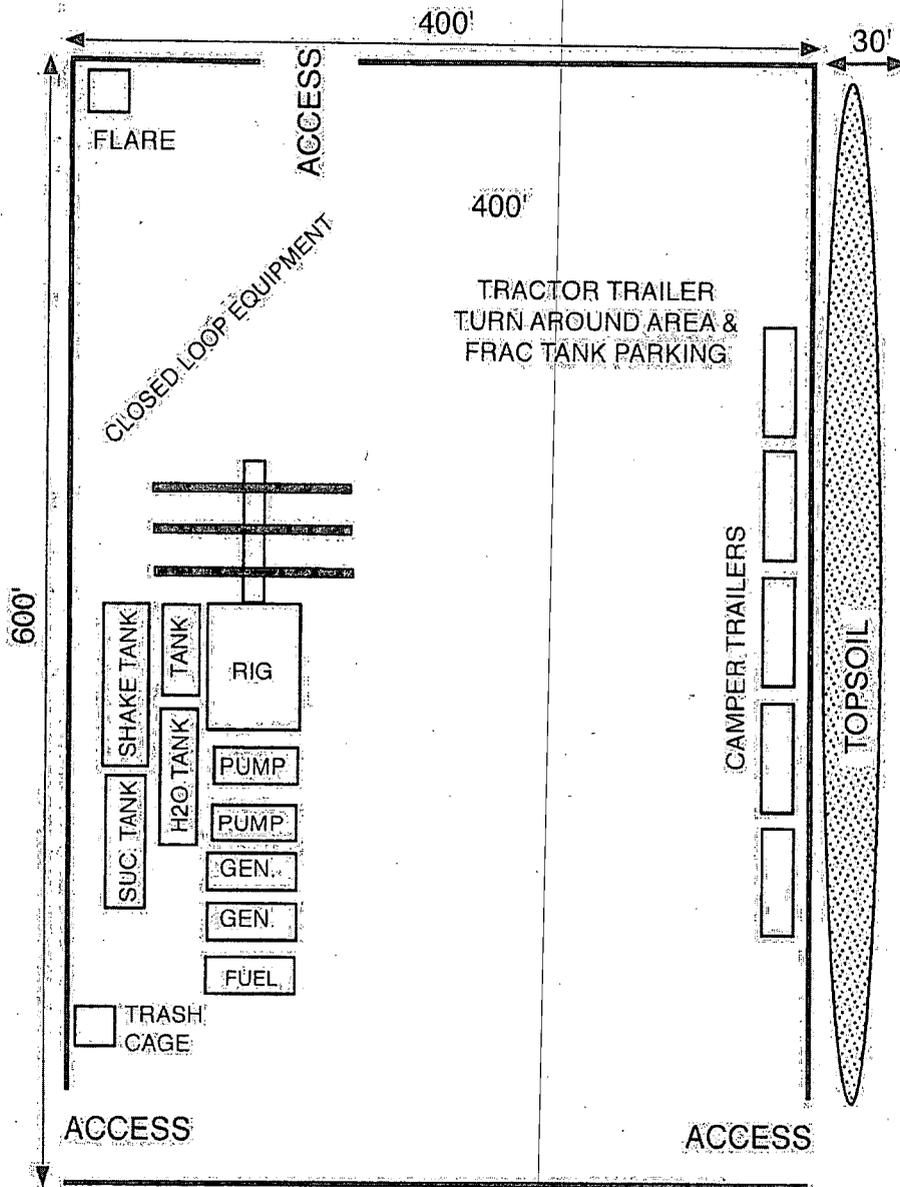
TD @ 21034.56' MD - Warrior Fed Com 2734W 1H LTP/BHL

Design Targets										
Target Name	hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/S (usft)	+E/W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Warrior Fed Com 273	- hit	0.00	0.00	10,300.00	-10,980.20	77.40	488,311.40	618,706.90	32° 20' 31.886 N	104° 4' 58.118 W
- plan hits target center										
- Point:										
Warrior Fed Com 273	- miss	0.00	0.00	10,300.00	-599.80	0.80	498,691.80	618,630.30	32° 22' 14.610 N	104° 4' 58.728 W
- plan misses target center by 3.43usft at 10653.88usft MD (10300.00 TVD, -599.78 N, 4.23 E)										
- Point:										

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/S (usft)	+E/W (usft)	
9,727.04	9,727.04	0.00	0.00	Start Build 10:00
10,627.04	10,300.00	-572.94	4.04	Start 10407:51 hold at 10627:04 MD
21,034.56	10,300.00	-10,980.20	77.40	TD @ 21034.56' MD

Ridge Runner's  
 Warrior Fed Com 2734 W 1H  
 rig diagram

NORTH ←  
 1" = 100'



Ridge Runner Resources Operating, LLC  
Gladiator Fed Com 3502  
SHL 35-22s-28e Eddy County, NM  
H<sub>2</sub>S Drilling Operations Plan

- a. All personnel will be trained in H<sub>2</sub>S 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 H<sub>2</sub>S page 5 for more details.
- c. H<sub>2</sub>S Safety Equipment/Systems:
  - i. Well Control Equipment
    - Flare line will be  $\geq 150'$  from the wellhead and ignited by a pilot light.
    - Beware of SO<sub>2</sub> 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<sub>2</sub>S and SO<sub>2</sub> 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 (SCBA) 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
    - Two full OSHA compliant body harnesses
    - A 100-foot long x 5/8" OSHA compliant rope
    - One 20-pound ABC fire extinguisher

iii. H<sub>2</sub>S Detection & Monitoring Equipment

- Every person on site will be required to wear a personal H<sub>2</sub>S and SO<sub>2</sub> 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 H<sub>2</sub>S condition sign will be set at the entrance to the pad.
- Color-coded condition flag will be installed to indicate current H<sub>2</sub>S conditions.
- Two wind socks will be installed that will be visible from all sides.

v. Mud Program

- A water based mud with a pH of  $\geq 10$  will be maintained to control corrosion, H<sub>2</sub>S gas returns to the surface, and minimize sulfide stress cracking and embrittlement.
- Drilling mud containing H<sub>2</sub>S 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 H<sub>2</sub>S where formation pressures are unknown.

vi. Metallurgy

- All equipment that has the potential to be exposed to H<sub>2</sub>S will be suitable for H<sub>2</sub>S 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.

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<sub>2</sub>S.

Company Personnel to be Notified

Ridge Runner's Midland, TX Office

Office: (432) 684-7877

In emergency, push #

Kelvin Fisher, Chief Operating Officer

Office: (432) 684-7877

Mobile: (432) 634-5621

Gary Moreau, Production Foreman

(575) 631-5643

Local & County Agencies

Loving Fire Department

911 or (575) 745-3600

Eddy County Sheriff (Carlsbad)

911 (575) 887-7551

Eddy County Emergency Management (Carlsbad)

(575) 887-9511

Carlsbad Medical Center Hospital

(575) 887-4100

Eddy County South Road Department (Carlsbad)

(575) 885-4835

State Agencies

NM State Police (Carlsbad)

(575) 885-3138

NM Oil Conservation (Artesia)

(575) 748-1283

NM Oil Conservation (Santa Fe)

(505) 476-3440

NM Dept. of Transportation (Roswell)

(575) 637-7201

Federal Agencies

BLM Carlsbad Field Office

(575) 234-5972

National Response Center

(800) 424-8802

US EPA Region 6 (Dallas)

(800) 887-6063

(214) 665-6444

Residents within 1 mile

none

Air Evacuation

Med Flight Air Ambulance (Albuquerque)

(800) 842-4431

Lifeguard (Albuquerque)

(888) 866-7256

Veterinarians

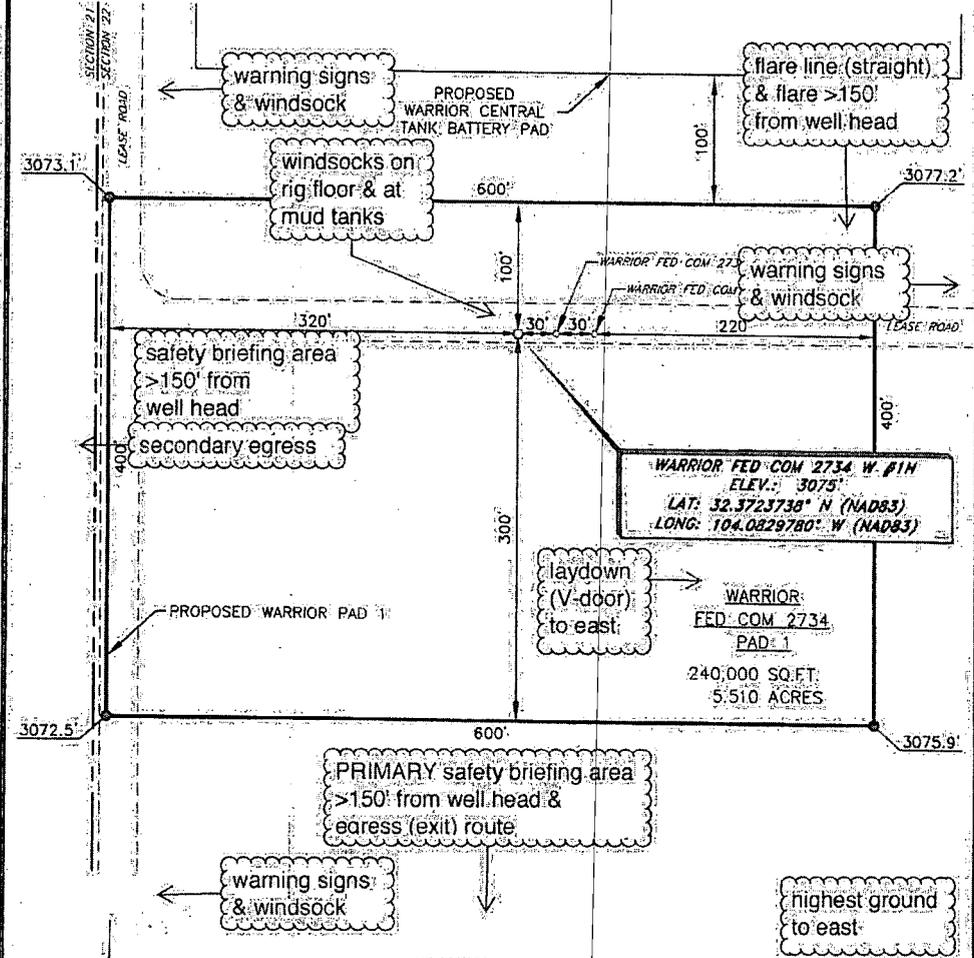
Desert Willow Veterinary Services (Carlsbad)

(575) 885-3399

Animal Care Center (Carlsbad)

(575) 885-5352

RIDGE RUNNER RESOURCES OPERATING, LLC.  
 WARRIOR FED COM 2734 W #1H  
 (500' FSL & 330' FWL)  
 SECTION 22, T22S, R28E  
 N. M. P. M., EDDY COUNTY, NEW MEXICO



**DIRECTIONS TO LOCATION**

From the intersection of State Highway 31 (Potash Mines Rd.) and CR-605 (Refinery Rd.),  
 Go Northwest on CR-605 approx. 4.2 miles to lease road on the right.  
 Turn right and go North approx. 0.8 miles to proposed location on the right.

Prevailing Wind  
 Out of the South

SCALE: 1" = 100'

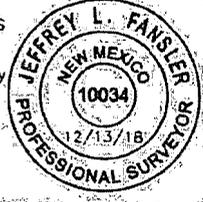
0' 50' 100'

BEARINGS ARE GRID NAD 83  
 NW EAST  
 DISTANCES ARE HORIZ. GROUND.

THIS IS NOT A BOUNDARY SURVEY. APPARENT PROPERTY CORNERS AND PROPERTY LINES ARE SHOWN FOR INFORMATION ONLY. BOUNDARY DATA IS SHOWN FROM A PREVIOUS SURVEY REFERENCED HEREON.

I, Jeffrey L. Fansler, a N. M. Professional Surveyor, hereby certify that I prepared this plot from an actual survey made on the ground under my direct supervision, said survey and plot meet the Min. Stds. for Land Surveying in the State of N. M. and are true and correct to the best of my knowledge and belief.

*Jeffrey L. Fansler*  
 Jeffrey L. Fansler NM PS 10034



DATE:	12-11-2018	
NO.	REVISION	DATE
1	WELL NAME	1.2.19
2		
3		
4		

**RRC**  
 SURVEYING, LLC  
 701 S. CECIL ST., HOBBS, NM 88240 (575) 964-8200

Copyright 2018 - All Rights Reserved

SCALE:	1" = 100'
SURVEYED BY:	AB/RU
DRAWN BY:	CAR
APPROVED BY:	JLF
JOB NO.:	LS1811310
SHEET:	W #1H PAD

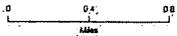
**Ridge Runner Resources  
Operating, LLC**

Warrior Fed Com 2734 W  
H2S Contingency Plan:  
2 Mile Radius Map

Township 22S, Range 28E  
Eddy County, New Mexico

⊙ Pad Location

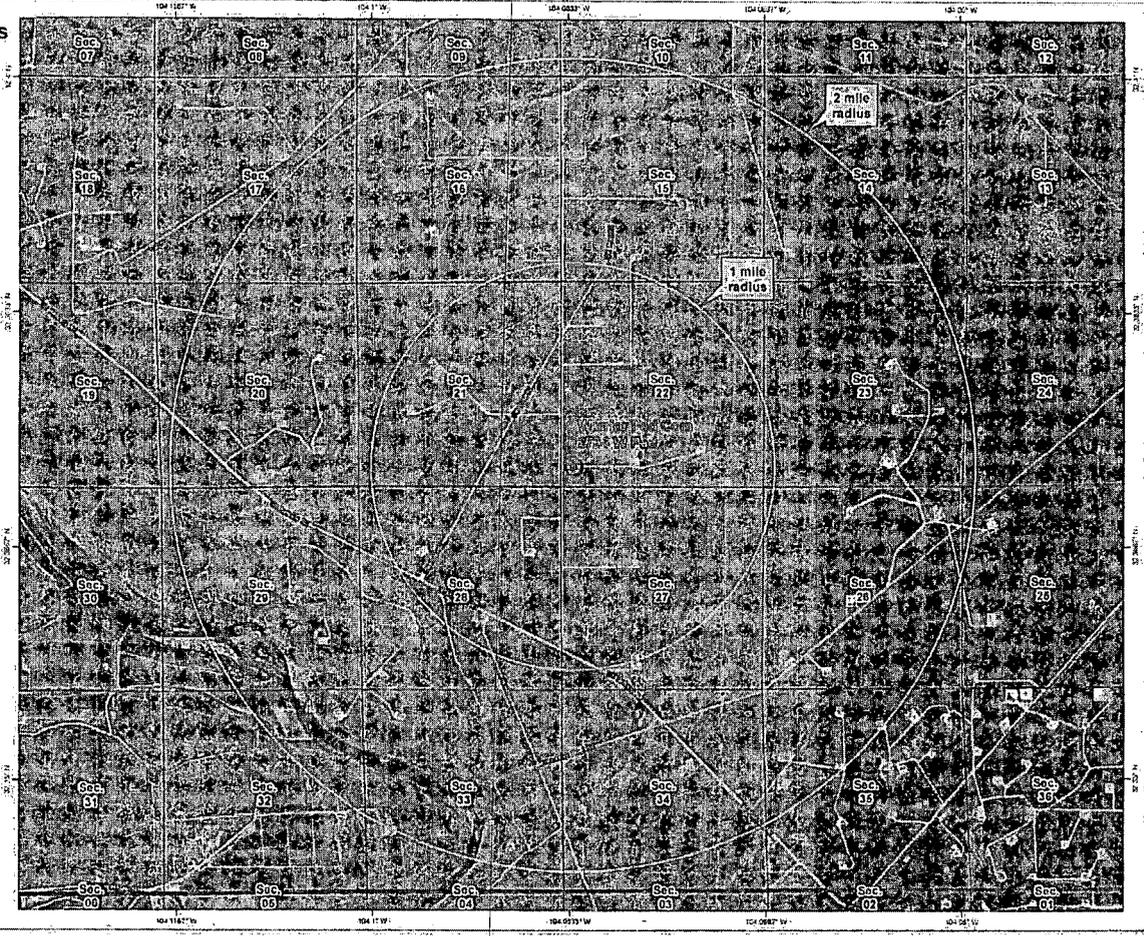
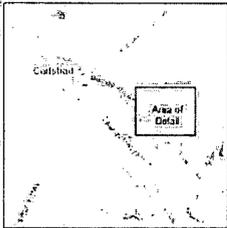
1:27,000



NAD 1983 New Mexico State Plane East  
FIPS 3001 Feet

**PENNIX WEST**  
GEOGRAPHIC INFORMATION SYSTEMS

Prepared by Pennix West, Inc., January 4, 2019,  
for Ridge Runner Resources Operating, LLC





APD ID: 10400039008

Submission Date: 02/11/2019

Highlighted data  
reflects the most  
recent changes

Operator Name: RIDGE RUNNER RESOURCES OPERATING LLC

Well Name: WARRIOR FED COM 2734 W

Well Number: 1H

Show Final Text

Well Type: CONVENTIONAL GAS WELL

Well Work Type: Drill

### Section 1 - Existing Roads

Will existing roads be used? NO

### Section 2 - New or Reconstructed Access Roads

Will new roads be needed? NO

### Section 3 - Location of Existing Wells

Existing Wells Map? NO

Attach Well map:

Existing Wells description: Fee Fee Fed - SUPO not required

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

Submit or defer a Proposed Production Facilities plan? DEFER

Estimated Production Facilities description: Fee Fee Fed - SUPO not required

Operator Name: RIDGE RUNNER RESOURCES OPERATING LLC

Well Name: WARRIOR FED COM 2734 W

Well Number: 1H

**Section 5 - Location and Types of Water Supply**

**Water Source Table**

Water source type: OTHER

Describe type: Fee Fee Fed - SUPO not required

Water source use type: SURFACE CASING

Source latitude:

Source longitude:

Source datum:

Water source permit type: OTHER

Water source transport method: TRUCKING

Source land ownership: OTHER

Describe land ownership: Fee Fee Fed - SUPO not r

Source transportation land ownership: OTHER

Describe transportation land ownership: Fee Fee Fe

Water source volume (barrels): 0

Source volume (acre-feet): 0

Source volume (gal): 0

Water source and transportation map:

Warrior\_2734\_1H\_Fee\_Fee\_Fed\_20190211115727.pdf

Water source comments:

New water well? NO

**New Water Well Info**

Well latitude:

Well Longitude:

Well datum:

Well target aquifer:

Est. depth to top of aquifer(ft):

Est thickness of aquifer:

Aquifer comments:

Aquifer documentation:

Well depth (ft):

Well casing type:

Well casing outside diameter (in.):

Well casing inside diameter (in.):

New water well casing?

Used casing source:

Drilling method:

Drill material:

Grout material:

Grout depth:

**Operator Name:** RIDGE RUNNER RESOURCES OPERATING LLC

**Well Name:** WARRIOR FED COM 2734 W

**Well Number:** 1H

**Casing length (ft.):**

**Casing top depth (ft.):**

**Well Production type:**

**Completion Method:**

**Water well additional information:**

**State appropriation permit:**

**Additional information attachment:**

### Section 6 - Construction Materials

**Using any construction materials:** NO

**Construction Materials description:**

**Construction Materials source location attachment:**

### Section 7 - Methods for Handling Waste

**Waste type:** DRILLING

**Waste content description:** Fee Fee Fed - SUPO not required

**Amount of waste:** 0 barrels

**Waste disposal frequency :** Daily

**Safe containment description:** Fee Fee Fed - SUPO not required

**Safe containmant attachment:**

**Waste disposal type:** OTHER

**Disposal location ownership:** OTHER

**Disposal type description:** Fee Fee Fed

**Disposal location description:** Fee Fee Fed - SUPO not required

### 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**

### Cuttings Area

**Cuttings Area being used?** NO

Operator Name: RIDGE RUNNER RESOURCES OPERATING LLC

Well Name: WARRIOR FED COM 2734 W

Well Number: 1H

Are you storing cuttings on location? NO

Description of cuttings location

Cuttings area length (ft.)

Cuttings area width (ft.)

Cuttings area depth (ft.)

Cuttings area volume (cu. yd.)

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:

Warrior\_2734B\_1H\_Well\_Site\_Layout\_20191011123833.pdf

Comments:

### Section 10 - Plans for Surface Reclamation

Type of disturbance: No New Surface Disturbance Multiple Well Pad Name: WARRIOR FED COM 2734 W

Multiple Well Pad Number: 1H

Recontouring attachment:

Drainage/Erosion control construction: Fee Fee Fed - SUPO not required

Drainage/Erosion control reclamation: Fee Fee Fed - SUPO not required

Well pad proposed disturbance (acres): 0

Well pad interim reclamation (acres):

Well pad long term disturbance (acres):

Road proposed disturbance (acres): 0

Road interim reclamation (acres):

Road long term disturbance (acres):

Powerline proposed disturbance (acres): 0

Powerline interim reclamation (acres): 0

Powerline long term disturbance (acres): 0

Pipeline proposed disturbance (acres): 0

Pipeline interim reclamation (acres):

Pipeline long term disturbance (acres):

Other proposed disturbance (acres): 0

Other interim reclamation (acres):

Other long term disturbance (acres):

Total proposed disturbance: 0

Total interim reclamation:

Total long term disturbance:

**Operator Name:** RIDGE RUNNER RESOURCES OPERATING LLC

**Well Name:** WARRIOR FED COM 2734 W

**Well Number:** 1H

**Disturbance Comments:**

**Reconstruction method:** Fee Fee Fed - SUPO not required

**Topsoil redistribution:** Fee Fee Fed - SUPO not required

**Soil treatment:** Fee Fee Fed - SUPO not required

**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:**

**Will seed be harvested for use in site reclamation?** NO

**Seed harvest description:**

**Seed harvest description attachment:**

**Seed Management**

**Seed Table**

Seed Summary	
Seed Type	Pounds/Acre

**Total pounds/Acre:**

**Seed reclamation attachment:**

**Operator Name:** RIDGE RUNNER RESOURCES OPERATING LLC

**Well Name:** WARRIOR FED COM 2734 W

**Well Number:** 1H

**Operator Contact/Responsible Official Contact Info**

**First Name:**

**Last Name:**

**Phone:**

**Email:**

**Seedbed prep:**

**Seed BMP:**

**Seed method:**

**Existing invasive species? NO**

**Existing invasive species treatment description:**

**Existing invasive species treatment attachment:**

**Weed treatment plan description:** Fee Fee Fed - SUPO not required

**Weed treatment plan attachment:**

**Monitoring plan description:** Fee Fee Fed - SUPO not required

**Monitoring plan attachment:**

**Success standards:** Fee Fee Fed - SUPO not required

**Pit closure description:** No pit

**Pit closure attachment:**

**Section 11 - Surface Ownership**

**Disturbance type:** WELL PAD

**Describe:**

**Surface Owner:** PRIVATE OWNERSHIP

**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:**

**Operator Name:** RIDGE RUNNER RESOURCES OPERATING LLC

**Well Name:** WARRIOR FED COM 2734 W

**Well Number:** 1H

**Section 12 - Other Information**

**Right of Way needed?** NO

**Use APD as ROW?**

**ROW Type(s):**

**ROW Applications**

**SUPO Additional Information:** Fee Fee Fed - SUPO not required

**Use a previously conducted onsite?** NO

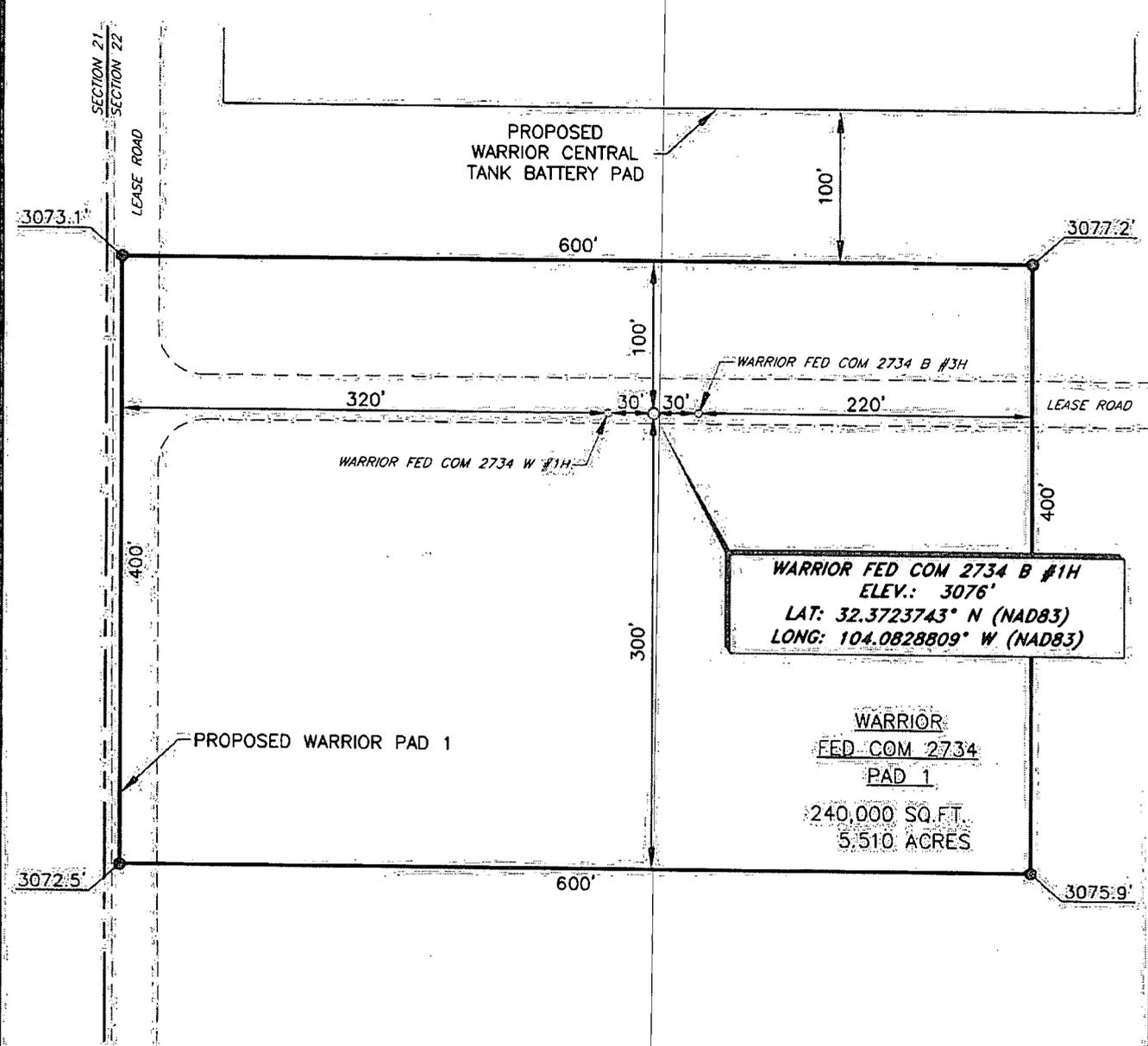
**Previous Onsite information:**

**Other SUPO Attachment**

**Ridge Runner Resources Operating Warrior Fed Com 2734 W 1H**

Fee Fee Fed – SUPO not required

RIDGE RUNNER RESOURCES OPERATING, LLC.  
 WARRIOR FED COM 2734 B #1H  
 (500' FSL & 360' FWL)  
 SECTION 22, T22S, R28E  
 N. M. P. M., EDDY COUNTY, NEW MEXICO



DIRECTIONS TO LOCATION

From the intersection of State Highway 31 (Potash Mines Rd.) and CR-605 (Refinery Rd.),

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I, Jeffrey L. Fansler, a N. M. Professional Surveyor, hereby certify that I prepared this plat from an actual survey made on the ground under my direct supervision, said survey and plat meet the Min. Stds. for Land Surveying in the State of N. M. and are





APD ID: 10400039008

Submission Date: 02/11/2019

Operator Name: RIDGE RUNNER RESOURCES OPERATING LLC

Well Name: WARRIOR FED COM 2734 W

Well Number: 1H

Well Type: CONVENTIONAL GAS WELL

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:

Describe precipitated solids disposal:

Precipitated solids disposal permit:

Lined pit precipitated solids disposal schedule:

Lined pit precipitated solids disposal schedule attachment:

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:** WARRIOR FED COM 2734 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:**

**Describe 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:** WARRIOR FED COM 2734 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?**

**Surface Discharge NPDES Permit attachment:**

**Surface Discharge site facilities information:**

**Surface discharge site facilities map:**

### Section 6 - Other

**Would you like to utilize Other PWD options?** NO

**Produced Water Disposal (PWD) Location:**

**PWD surface owner:**

**PWD disturbance (acres):**

**Other PWD discharge volume (bbl/day):**

**Operator Name:** RIDGE RUNNER RESOURCES OPERATING LLC

**Well Name:** WARRIOR FED COM 2734 W

**Well Number:** 1H

**Other PWD type description:**

**Other PWD type attachment:**

**Have other regulatory requirements been met?**

**Other regulatory requirements attachment:**



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

# Bond Info Data Report

01/02/2020

**APD ID:** 10400039008

**Submission Date:** 02/11/2019

Highlighted data  
reflects the most  
recent changes.

**Operator Name:** RIDGE RUNNER RESOURCES OPERATING LLC

**Well Name:** WARRIOR FED COM 2734 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:**