

RECEIVED

Form 3160-3
(June 2015)

JAN 06 2020

FORM APPROVED
OMB No. 1004-0137
Expires: January 31, 2018UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
DISTRICT/ARTESIA/O.C.D.

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. NMNMO19842B
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		6. If Indian, Allottee or Tribe Name
1c. Type of Completion: <input type="checkbox"/> Hydraulic Fracturing <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		7. If Unit or CA Agreement, Name and No.
2. Name of Operator RIDGE RUNNER RESOURCES OPERATING LLC		8. Lease Name and Well No. WARRIOR FED.COM 2734 B 4H 326901
3a. Address 1004 N. Big Spring Street, Suite 325 Midland TX 79701	3b. Phone No. (include area code) (432)684-7877	9. API Well No. 30-015-46589
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface SESE / 500 FSL / 300 FEL / LAT 32.372359 / LONG -104.0677968 At proposed prod. zone SWSE / 100 FSL / 1980 FEL / LAT 32.342316 / LONG -104.07294		10. Field and Pool, or Exploratory CULEBRA BLUFF / BONE SPRING SOU
11. Sec., T, R, M. or Blk. and Survey or Area SEC 22 / T2S / R28E / NMP		
14. Distance in miles and direction from nearest town or post office* 6 miles		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) 300 feet	16. No of acres in lease 280	17. Spacing Unit dedicated to this well 320
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 30 feet	19. Proposed Depth 8850 feet / 19979 feet	20. BLM/BIA Bond No. in file FED: NMB001616
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3110 feet	22. Approximate date work will start* 06/01/2019	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 02/19/2019
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		

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

(Continued on page 2)

RW 1-15-2020
*(Instructions on page 2)

INSTRUCTIONS

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

ITEM 1: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable Federal regulations concerning subsequent work proposals or reports on the well.

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

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

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

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

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

NOTICES

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

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

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

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

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

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

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

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

Additional Operator Remarks

Location of Well

1. SHL: SESE / 500 FSL / 300 FEL / TWSP: 22S / RANGE: 28E / SECTION: 22 / LAT: 32.372359 / LONG: -104.0677968 (TVD: 0 feet, MD: 0 feet)
PPP: SWSE / 476 FSL / 1632 FEL / TWSP: 22S / RANGE: 28E / SECTION: 22 / LAT: 32.3722933 / LONG: -104.0721117 (TVD: 8325 feet, MD: 8682 feet)
PPP: NWNE / 0 FNL / 1980 FEL / TWSP: 22S / RANGE: 28E / SECTION: 34 / LAT: 32.356512 / LONG: -104.073085 (TVD: 8850 feet, MD: 14799 feet)
PPP: SWNE / 1320 FNL / 1980 FEL / TWSP: 22S / RANGE: 28E / SECTION: 34 / LAT: 32.352835 / LONG: -104.073051 (TVD: 8850 feet, MD: 16149 feet)
BHL: SWSE / 100 FSL / 1980 FEL / TWSP: 22S / RANGE: 28E / SECTION: 34 / LAT: 32.342316 / LONG: -104.07294 (TVD: 8850 feet, MD: 19979 feet)

BLM Point of Contact

Name: Tenille Ortiz

Title: Legal Instruments Examiner

Phone: 5752342224

Email: tortiz@blm.gov

Approval Date: 12/23/2019

(Form 3160-3, page 3)

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.

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Ridge Runner Resources Operating LLC
LEASE NO.:	NMNM19842B
WELL NAME & NO.:	Warrior Fed Com 2734 B 4H
SURFACE HOLE FOOTAGE:	500'/S & 360'/E
BOTTOM HOLE FOOTAGE:	100'/S & 330'/E
LOCATION:	Section 22, T.22 S., R.28 E., NMPM
COUNTY:	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 ½ 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 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.
2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
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



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

Operator Certification Data Report

01/02/2020

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: 02/19/2019

Zip: 87508

Field Representative

Representative Name:

Street Address:

City:

State:

Zip:

Phone:

Email address:



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

Application Data Report

01/02/2020

APD ID: 10400039251

Submission Date: 02/19/2019

Highlighted data
reflects the most
recent changes

Operator Name: RIDGE RUNNER RESOURCES OPERATING LLC

Well Name: WARRIOR FED COM 2734 B

Well Number: 4H

[Show Final Text](#)

Well Type: OIL WELL

Well Work Type: Drill

Section 1 - General

APD ID: 10400039251

Tie to previous NOS? N

Submission Date: 02/19/2019

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: NMNM019842B

Lease Acres: 280

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 B

Well Number: 4H

Well API Number:

Field/Pool or Exploratory? Field and Pool

Field Name: CULEBRA BLUFF

Pool Name: BONE SPRING
SOUTH

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

Operator Name: RIDGE RUNNER RESOURCES OPERATING LLC

Well Name: WARRIOR FED COM 2734 B

Well Number: 4H

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

Number: PAD 2

Well Class: HORIZONTAL

WARRIOR FED COM 2734

Number of Legs: 1

Well Work Type: Drill

Well Type: OIL 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: 300 FT

Reservoir well spacing assigned acres Measurement: 320 Acres

Well plat: Warrior_2734B_4H_Plat_GasCap_Plan_20190219090927.pdf

Well work start Date: 06/01/2019

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	300	FEL	22S	28E	22	Aliquot SESE	32.372359	-104.0677968	EDD Y	NEW MEXI CO	NEW MEXI CO	F	FEE	3110	0	0	
KOP Leg #1	476	FSL	1701	FEL	22S	28E	22	Aliquot SWSE	32.3722933	-104.0723352	EDD Y	NEW MEXI CO	NEW MEXI CO	F	FEE	-5246	8717	8356	
PPP Leg #1-1	1320	FNL	1980	FEL	22S	28E	34	Aliquot SWNE	32.352835	-104.073051	EDD Y	NEW MEXI CO	NEW MEXI CO	F	NMNM 016102	-5740	16149	8850	

Operator Name: RIDGE RUNNER RESOURCES OPERATING LLC

Well Name: WARRIOR FED COM 2734 B

Well Number: 4H

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	0	FNL	1980	FEL	22S	28E	34	Aliquot NWNE	32.356512	- 104.073085	EDD Y	NEW MEXICO	FIRST PRIN	F	NMNM 019842B	- 5740	14799	8850	
PPP Leg #1-3	476	FSL	1632	FEL	22S	28E	22	Aliquot SWSE	32.3722933	- 104.072117	EDD Y	NEW MEXICO	NEW MEXICO	F	FEE	- 5215	8682	8325	
EXIT Leg #1	100	FSL	1980	FEL	22S	28E	34	Aliquot SWSE	32.342316	- 104.07294	EDD Y	NEW MEXICO	NEW MEXICO	F	NMNM 016331	- 5740	19979	8850	
BHL Leg #1	100	FSL	1980	FEL	22S	28E	34	Aliquot SWSE	32.342316	- 104.07294	EDD Y	NEW MEXICO	NEW MEXICO	F	NMNM 016331	- 5740	19979	8850	



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

Drilling Plan Data Report

01/02/2020

APD ID: 10400039251

Submission Date: 02/19/2019

Highlighted data
reflects the most
recent changes

Operator Name: RIDGE RUNNER RESOURCES OPERATING LLC

Well Name: WARRIOR FED COM 2734 B

Well Number: 4H

[Show Final Text](#)

Well Type: OIL WELL

Well Work Type: Drill

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical Depth	Measured Depth	Lithologies	Mineral Resources	Producing Formation
399996	QUATERNARY	3110	0	0	OTHER : Caliche	USEABLE WATER	N
399997	RUSTLER ANHYDRITE	2860	250	250		OTHER : Brackish water	N
399998	TOP SALT	2630	480	480		NONE	N
400001	DELAWARE	410	2700	2700	LIMESTONE	NONE	N
399999	BELL CANYON	385	2725	2725	SANDSTONE	NATURAL GAS, OIL	N
400002	CHERRY CANYON	-720	3830	3830	SANDSTONE	OIL	N
400003	BRUSHY CANYON	-1740	4850	4850	SANDSTONE	NATURAL GAS, OIL	N
400005	BONE SPRING LIME	-3035	6145	6166		NATURAL GAS, OIL	N
400004	BONE SPRING 1ST	-4065	7175	7354	SANDSTONE	NATURAL GAS, OIL	N
400006	BONE SPRING 2ND	-4890	8000	8306	SANDSTONE	NATURAL GAS, OIL	N
400000	BONE SPRING 3RD	-5215	8325	8682	OTHER : Carbonate	NATURAL GAS, OIL	Y

Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M

Rating Depth: 10000

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. 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.

Operator Name: RIDGE RUNNER RESOURCES OPERATING LLC

Well Name: WARRIOR FED COM 2734 B

Well Number: 4H

Testing Procedure: 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: $8850' \text{ TVD} \times 10.0 \text{ ppg mud} \times 0.052 = 4602 \text{ psi}$ – $8850' \times 0.22 \text{ psi/ft} = 1947 \text{ psi}$ 2655 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_2734B_4H_Choke_BOP_20190219092444.pdf

BOP Diagram Attachment:

Warrior_2734B_4H_Choke_BOP_20190219092452.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	3110		450	J-55	54.5	ST&C	5.37	12.96	DRY	24.3	DRY	24.3
2	PRODUCTI ON	8.5	7.0	NEW	API	Y	0	8620	0	8271	3110		8620	OTH ER	26	OTHER - CDC	1.47	2.34	DRY	4.45	DRY	4.45
3	INTERMED IATE	12.25	9.625	NEW	API	N	0	8620	0	8271	3110		8620	OTH ER	47	BUTT	1.33	1.6	DRY	3.41	DRY	3.41
4	PRODUCTI ON	8.5	5.5	NEW	API	Y	8620	19979	8271	8850			11359	P- 110	20	OTHER - CDC	2.41	2.16	DRY	68.1	DRY	68.1

Casing Attachments

Operator Name: RIDGE RUNNER RESOURCES OPERATING LLC

Well Name: WARRIOR FED COM 2734 B

Well Number: 4H

Casing Attachments

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

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Warrior_2734B_4H_Casing_Design_Assumptions_20190219092926.pdf

Casing ID: 2 **String Type:** INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Warrior_2734B_4H_Casing_Design_Assumptions_20190219092906.pdf

Casing ID: 3 **String Type:** PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Warrior_2734B_4H_7in_Casing_Spec_20190219092717.pdf

Casing Design Assumptions and Worksheet(s):

Warrior_2734B_4H_Casing_Design_Assumptions_20190219092915.pdf

Operator Name: RIDGE RUNNER RESOURCES OPERATING LLC

Well Name: WARRIOR FED COM 2734 B

Well Number: 4H

Casing Attachments

Casing ID: 4 String Type: PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Warrior_2734B_4H_5.5in_Casing_Spec_20190219092828.pdf

Casing Design Assumptions and Worksheet(s):

Warrior_2734B_4H_Casing_Design_Assumptions_20190219092856.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	15	None	None
PRODUCTION	Tail		0	0	0	0	0	0	0	None	None
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	2700	0	2700	660	2.19	12.7	1445	100	Class C	6% gel + 5% salt + additives
INTERMEDIATE	Tail		0	2700	100	1.32	14.8	132	100	Class C	Additives
INTERMEDIATE	Lead		2700	8620	1015	2.5	11.3	2537	50	TXI Light	5% salt + 4% SMS + additives
INTERMEDIATE	Tail		2700	8620	200	1.19	15.6	238	50	Class H	Additives
PRODUCTION	Lead		8120	19979	0	0	0	0	15	None	None
PRODUCTION	Tail		8120	19979	2420	1.27	14.2	3073	15	50/50/2 Poz/G/gel	Additives

Operator Name: RIDGE RUNNER RESOURCES OPERATING LLC

Well Name: WARRIOR FED COM 2734 B

Well Number: 4H

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
0	450	OTHER : Fresh water spud mud	8.4	9							
450	8620	OTHER : Brine water	10	10							
8620	19979	OIL-BASED MUD	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 B

Well Number: 4H

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 6930

Anticipated Surface Pressure: 4983

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_2734B_4H_H2S_Plan_20190219093458.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Warrior_2734B_4H_Horiztonal_Drill_Plan_20190219093517.pdf

Other proposed operations facets description:

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

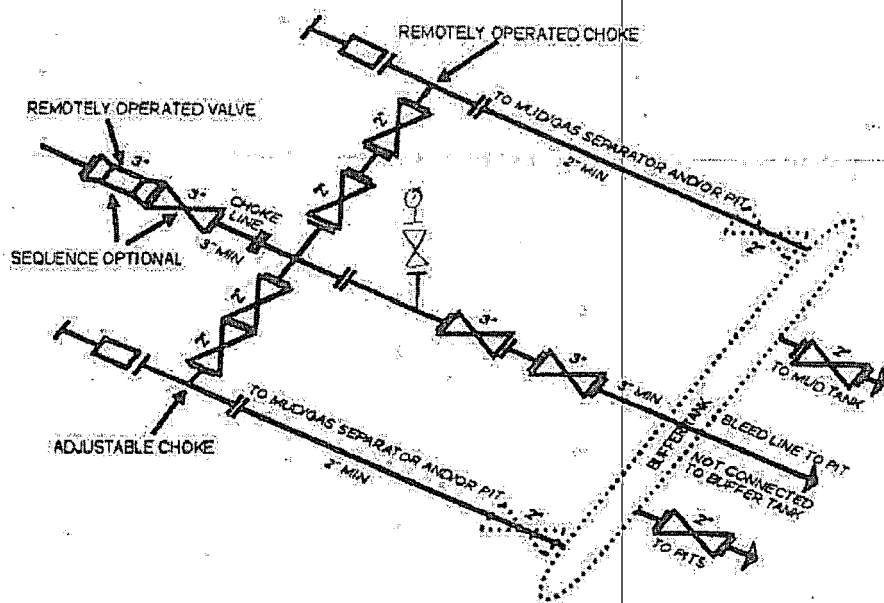
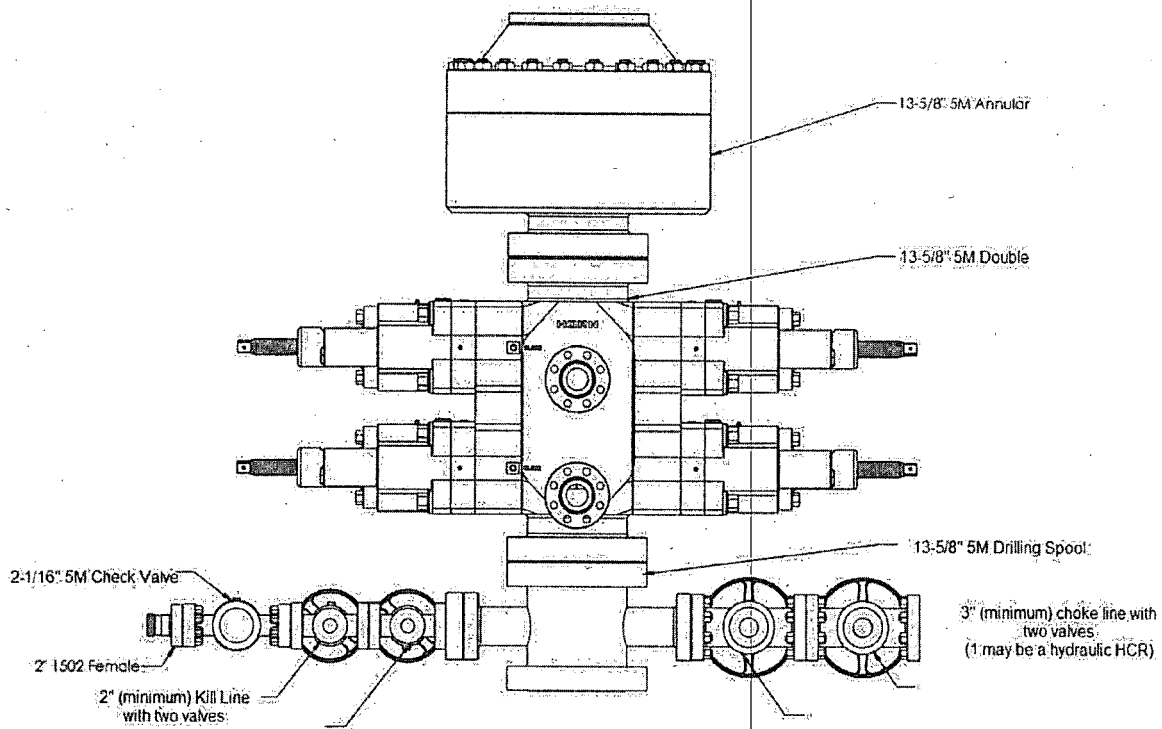
Other proposed operations facets attachment:

Warrior_2734B_4H_Drill_Plan_20190219093527.pdf

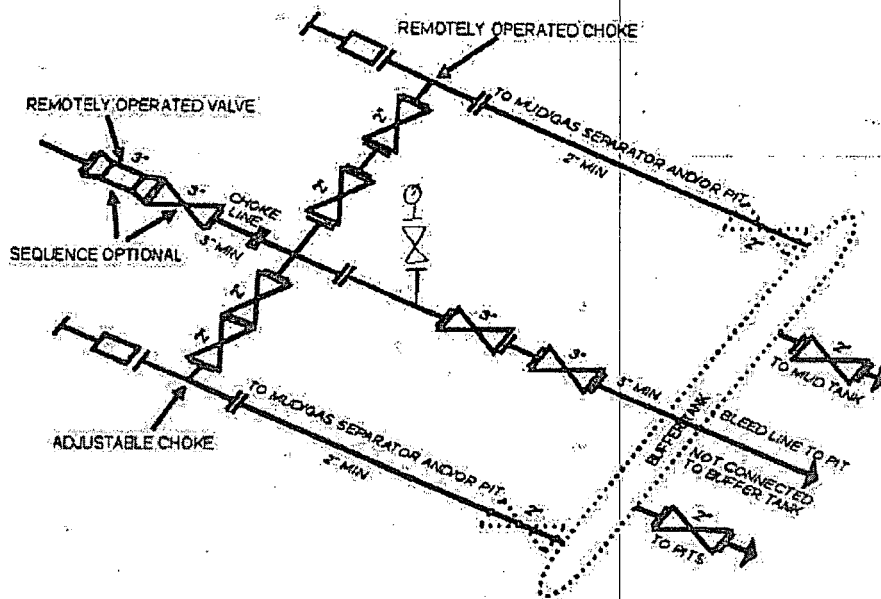
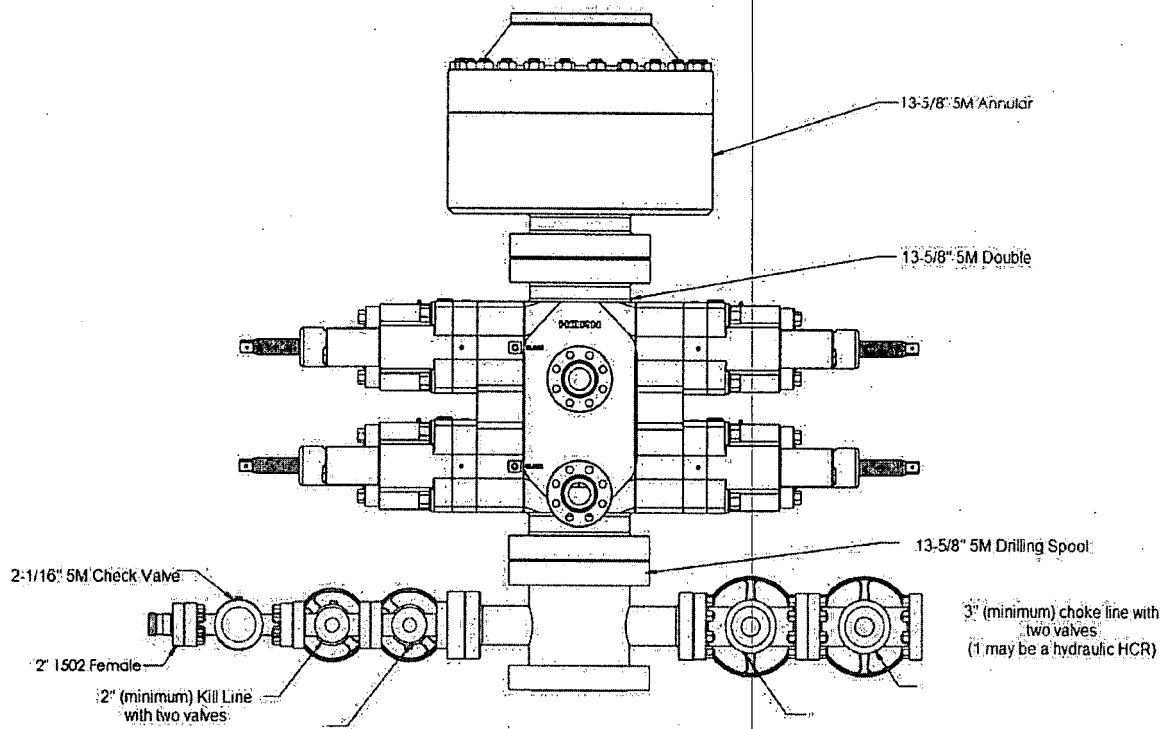
Warrior_2734B_4H_Speedhead_Specs_20190219093535.pdf

Warrior_2734B_4H_Co_Flex_Certs_20190219093542.pdf

Other Variance attachment:



5M-CHOKE MANFOLD EQUIPMENT - CONFIGURATION OF CHOKES MAY VARY



5M CHOKE MANIFOLD EQUIPMENT - CONFIGURATION OF CHOKES MAY VARY



U. S. Steel Tubular Products

12/21/2018 11:58:32 AM

7.000" 26.00lbs/ft (0.362" Wall) P110 HC USS-CDC®

MECHANICAL PROPERTIES	Pipe	USS-CDC®	
Minimum Yield Strength	110,000	--	psi
Maximum Yield Strength	140,000	--	psi
Minimum Tensile Strength	125,000	--	psi
DIMENSIONS	Pipe	USS-CDC®	
Outside Diameter	7.000	7.656	in.
Wall Thickness	0.362	--	in.
Inside Diameter	6.276	6.276	in.
Standard Drift	6.151	6.151	in.
Alternate Drift	--	--	in.
Coupling Length	--	10.000	in.
Nominal Linear Weight, T&C	26.00	--	lbs/ft
Plain End Weight	25.69	--	lbs/ft
SECTION AREA	Pipe	USS-CDC®	
Critical Area	7.549	7.549	sq. in.
Joint Efficiency	--	100.0	%
PERFORMANCE	Pipe	USS-CDC®	
Minimum Collapse Pressure	7,540	7,540	psi
External Pressure Leak Resistance	--	6,030	psi
Minimum Internal Yield Pressure	9,960	9,960	psi
Minimum Pipe Body Yield Strength	830,000	--	lbs
Joint Strength	--	853,000	lbs
Compression Rating	--	512,000	lbs
Reference Length	--	21,872	ft
Maximum Uniaxial Bend Rating	--	44.4	deg/100 ft
MAKE-UP DATA	Pipe	USS-CDC®	
Make-Up Loss	--	5.00	in.
Minimum Make-Up Torque	--	14,000	ft-lbs
Maximum Make-Up Torque	--	17,500	ft-lbs
Connection Yield Torque	--	21,800	ft-lbs

1. Other than proprietary collapse and connection values, performance properties have been calculated using standard equations defined by API 5C3 and do not incorporate any additional design or safety factors. Calculations assume nominal pipe OD, nominal wall thickness and Specified Minimum Yield Strength (SMYS).
2. Uniaxial bending rating shown is structural only, and equal to compression efficiency.
3. Torques have been calculated assuming a thread compound friction factor of 1.0 and are recommended only. Field make-up torques may require adjustment based on actual field conditions (e.g. make-up speed, temperature, thread compound, etc.).
4. Reference length is calculated by joint strength divided by nominal threaded and coupled weight with 1.5 safety factor.
5. Connection external pressure leak resistance has been verified to 80% API pipe body collapse pressure following the guidelines of API 5C5 Call II.

Legal Notice

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U. S. Steel Tubular Products

12/21/2018 12:05:30 PM

5.500" 20.00lbs/ft (0.361" Wall) P110 USS-CDC®

MECHANICAL PROPERTIES	Pipe	USS-CDC®	
Minimum Yield Strength	110,000	---	psi
Maximum Yield Strength	140,000	---	psi
Minimum Tensile Strength	125,000	---	psi
DIMENSIONS	Pipe	USS-CDC®	
Outside Diameter	5.500	6.050	in.
Wall Thickness	0.361	---	in.
Inside Diameter	4.778	4.778	in.
Standard Drift	4.653	4.653	in.
Alternate Drift	---	---	in.
Coupling Length	---	9.250	in.
Nominal Linear Weight, T&C	20.00	---	lbs/ft
Plain End Weight	19.83	---	lbs/ft
SECTION AREA	Pipe	USS-CDC®	
Critical Area	5.828	5.828	sq. in.
Joint Efficiency	---	100.0	%
PERFORMANCE	Pipe	USS-CDC®	
Minimum Collapse Pressure	11,100	11,100	psi
External Pressure Leak Resistance	---	8,880	psi
Minimum Internal Yield Pressure	12,640	12,370	psi
Minimum Pipe Body Yield Strength	641,000	---	lbs
Joint Strength	---	667,000	lbs
Compression Rating	---	400,000	lbs
Reference Length	---	22.233	ft
Maximum Uniaxial Bend Rating	---	57.2	deg/100 ft
MAKE-UP DATA	Pipe	USS-CDC®	
Make-Up Loss	---	4.63	in.
Minimum Make-Up Torque	---	10,500	ft-lbs
Maximum Make-Up Torque	---	13,000	ft-lbs
Connection Yield Torque	---	16,100	ft-lbs

- Other than proprietary collapse and connection values, performance properties have been calculated using standard equations defined by API 5C3 and do not incorporate any additional design or safety factors. Calculations assume nominal pipe OD, nominal wall thickness and Specified Minimum Yield Strength (SMYS).
- Uniaxial bending rating shown is structural only, and equal to compression efficiency.
- Torques have been calculated assuming a thread compound friction factor of 1.0 and are recommended only. Field make-up torques may require adjustment based on actual field conditions, (e.g. make-up speed, temperature, thread compound, etc.).
- Reference length is calculated by joint strength divided by nominal threaded and coupled weight with 1.5 safety factor.
- Connection external pressure leak resistance has been verified to 90% API pipe body collapse pressure following the guidelines of API 5C5/Call II.

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U. S. Steel Tubular Products
460 Wildwood Forest Drive, Suite 300S
Spring, Texas 77380

1-877-893-9461
connections@uss.com
www.usstubar.com

Casing Forces Calculations

[illegible]

Warrior Fed Com 2734 S 84H
Kelvin Fisher 2/4/19

Losses of 2,3-Dioxins

64,75

[illegible]

Kevin Fisher, 2/4/19

Cases for Calculations

[illegible]



Ridge Runner Resources Operating, LLC

Warrior Fed Com 2734

SHL 22-22s-28e Eddy County, NM

H₂S Drilling Operations Plan

- a. All personnel will be trained in H₂S working conditions as required by Onshore Order 6 before drilling out of the surface casing.
- b. Two briefing areas will be established. Each will be at least 150' from the wellhead, perpendicular from one another, and easily entered and exited. See H₂S page 5 for more details.
- c. H₂S Safety Equipment/Systems:
 - i. Well Control Equipment
 - Flare line will be $\geq 150'$ from the wellhead and ignited by a pilot light.
 - Beware of SO₂ created by flaring.
 - Choke manifold will include a remotely operated choke.
 - Mud gas separator
 - ii. Protective Equipment for Essential Personnel
 - Every person on site will be required to wear a personal H₂S and SO₂ 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. H₂S Detection & Monitoring Equipment

- Every person on site will be required to wear a personal H₂S and SO₂ monitor at all times while on site. Monitors will not be worn on hard hats. Monitors will be worn on the front of the chest.
- A stationary detector with three sensors will be in the doghouse.
- Sensors will be installed on the rig floor, bell nipple, and at the end of the flow line or where drilling fluids are discharged.
- Visual alarm will be triggered at 10 ppm.
- Audible alarm will be triggered at 10 ppm.
- Calibration will occur at least every 30 days. Gas sample tubes will be kept in the safety trailer.

iv. Visual Warning System

- Color-coded H₂S condition sign will be set at the entrance to the pad.
- Color-coded condition flag will be installed to indicate current H₂S 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 ≥ 10 will be maintained to control corrosion, H₂S gas returns to the surface, and minimize sulfide stress cracking and embrittlement.
- Drilling mud containing H₂S gas will be degassed at an optimum location for the rig configuration.
- This gas will be piped into the flare system.
- Enough mud additives will be on location to scavenge and/or neutralize H₂S where formation pressures are unknown.

vi. Metallurgy

- All equipment that has the potential to be exposed to H₂S will be suitable for H₂S service.
- Equipment that will meet these metallurgical standards include the drill string, casing, wellhead, BOP assembly, casing head and spool, rotating head, kill lines, choke, choke manifold and lines, valves, mud-gas separators, DST tools, test units, tubing, flanges, and other related equipment (elastomer packings and seals).



vii. Communication from well site

- Cell phones and/or two-way radios will be used to communicate from the well site.

d. A remote-controlled choke, mud-gas separator, and a rotating head will be installed before drilling or testing any formation expected to contain H₂S.

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

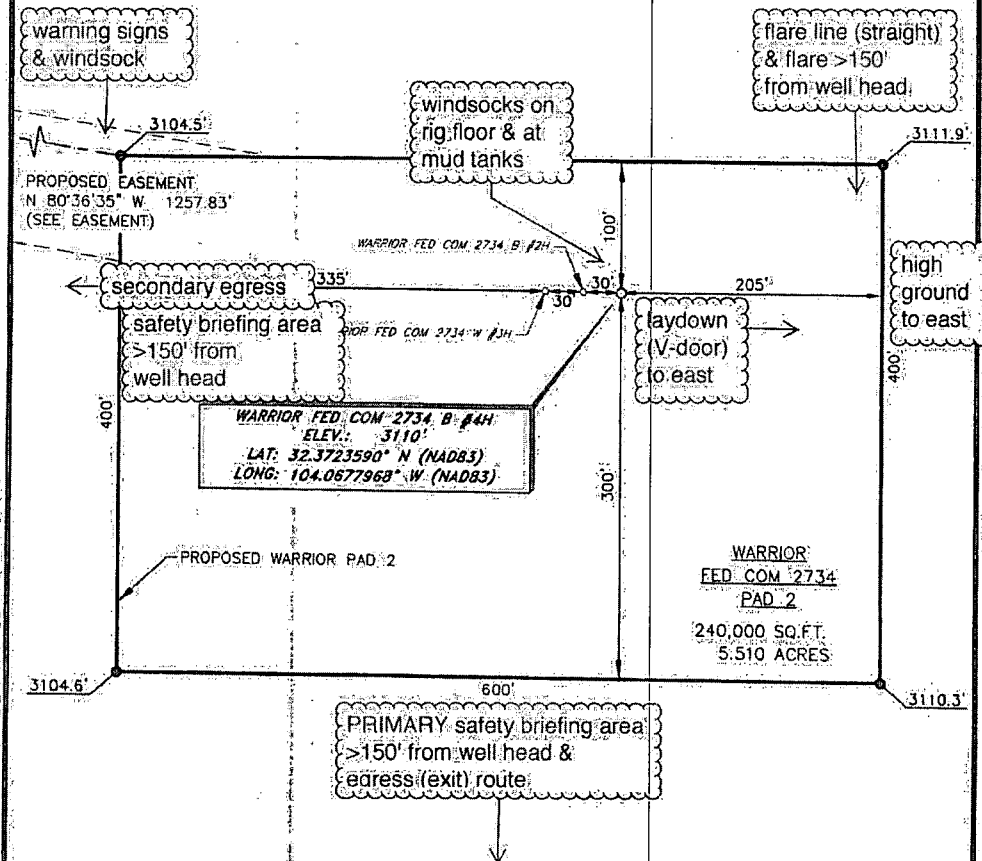
RIDGE RUNNER RESOURCES OPERATING, LLC.

WARRIOR FED COM 2734 B #4H

(500' FSL & 300' FEL)

SECTION 22, T22S, R28E

N. M. P. M., EDDY COUNTY, NEW MEXICO

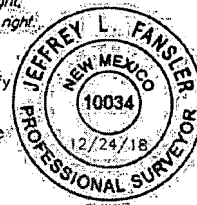


DIRECTIONS TO LOCATION

From the intersection of State Highway 31 (Fatash 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. 0.9 miles to proposed road on the right.
Turn right and go East approx. 1.0 miles to proposed location on the right.

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
NM.PS. 10034



SCALE: 1" = 100'
0 50 100
BEARINGS ARE GRID NAD 83
NM EAST
DISTANCES ARE HORIZ. GROUND

NO.	REVISION	DATE
1	WELL NAME	1.2.19
2	NEW WELL	1.21.19
3		
4		

RRC

SURVEYING, LLC

701 S. CECIL ST., HOBBS, NM 88240 (505) 964-8200

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SCALE: 1" = 100'
SURVEYED BY: AB/RU
DRAWN BY: AAC
APPROVED BY: JLF
JOB NO.: LS18111311
SHEET: B 4H PAD

Ridge Runner Resources Operating, LLC

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

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

East Pad Location

1:27,000

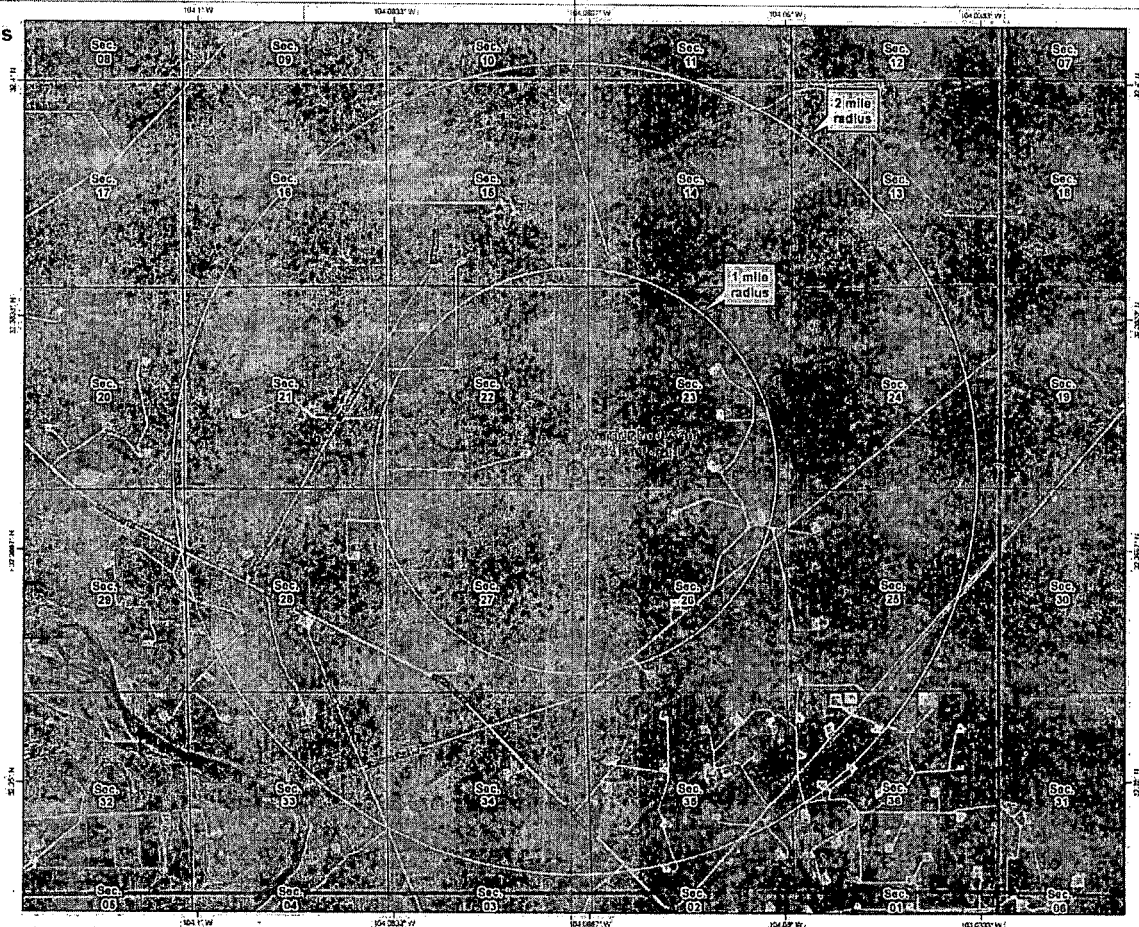
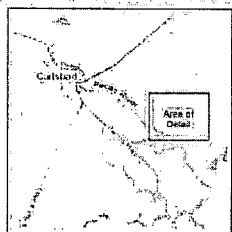
0 0.4 0.8
Miles



NAD 1983 New Mexico State Plane East
FIPS 3001 Feet

PERMIT AREA

Prepared by Permits West, Inc., February 18, 2019
for Ridge Runner Resources Operating, LLC





Project: Eddy County, NM (NAD83)
Site: Warrior Fed Com
Well: Warrior Fed Com 2734B 4H
Depth Reference: GL 3110' + 30' KB @ 3140.00usft (Rig TBD)
SHL Northing: 499297.60
SHL Easting: 623316.40
Rig: Rig TBD
Plan: plan1



SECTION DETAILS

MD	Inc	Adj	TVD	+N-S	+E-W	Diag	TFace	VSed	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5821.60	0.00	0.00	5621.00	0.00	0.00	0.00	0.00	0.00	Start Build 5.00
6221.60	30.00	260.00	6184.56	-2.58	-153.50	0.00	269.00	24.28	Start 2495.00 hold at 6221.90 MD
6716.60	30.00	269.00	6353.29	-24.45	-1400.81	0.00	0.00	221.67	Start 145.00 TFG - 69.70
9614.88	90.00	179.34	8550.00	-600.64	-1679.35	10.00	-49.70	831.44	Start 10364.04 hold at 9614.98 MD
19978.52	90.00	179.34	8950.00	-10964.00	-1561.20	0.00	0.00	11074.59	TD @ 19978.62 MD

FORMATION TOP DETAILS

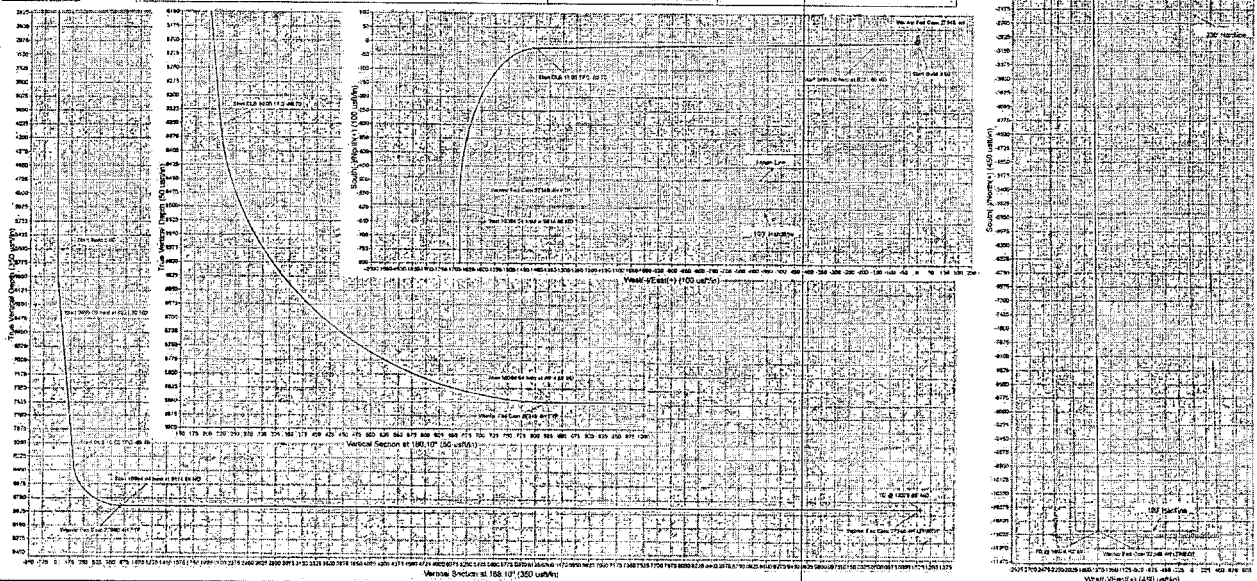
No formation data is available

DESIGN TARGET DETAILS

Name	TVD	+N-S	+E-W	Easting	Northing
Warrior Fed Com 2734B 4H FTP	8850.00	59.10	-1679.60	499106.50	621639.30
Warrior Fed Com 2734B 4H LTPEDT	8850.00	-10964.00	-1561.20	488333.60	621755.20



Azimuths to Grid North
True North: 0.14°
Magnetic North: 7.07°
Magnetic Field
Strength: 47962.3anT
Dip Angle: 80.12°
Date: 02/01/2019
Model: HDGM





Planning Report



Database:	EDM 5000:14 Single User Db	Local Co-ordinate Reference:	Well Warrior Fed Com 2734B 4H
Company:	Ridge Runner Resources	TVD Reference:	GL 3110' + 30' KB @ 3140.00usft (Rig TBD)
Project:	Eddy County, NM (NAD83)	MD Reference:	GL 3110' + 30' KB @ 3140.00usft (Rig TBD)
Site:	Warrior Fed Com	North Reference:	Grid
Well:	Warrior Fed Com 2734B 4H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	plan1		

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

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

Well:	Warrior Fed Com 2734B 4H		
Well Position:	+N/-S 6.00 usft	Northing:	499,297.60 usft
	+E/-W 4,686.90 usft	Easting:	623,316.40 usft
Position Uncertainty:	0.00 usft	Wellhead Elevation:	
		Latitude:	32° 22' 20.493 N
		Longitude:	104° 4' 4.068 W
		Ground Level:	3,110.00 usft

Wellbore:	Wellbore #1		
Magnetics:	Model Name	Sample Date	Declination
	HDGM	02/01/19	7.22
			Dip Angle
			60.12
			Field Strength
			47,962.30000000

Design:	plan1		
Audit Notes:			
Version:	Phase:	PROTOTYPE	Tie On Depth:
			0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.00	0.00	0.00
			Direction
			188.10

Plan Survey Tool Program	Date:	02/01/19		
Depth From	Depth To	Survey (Wellbore)	Tool Name	Remarks
(usft)	(usft)			
1	0.00	19,978.92 plan1 (Wellbore #1)	MWD	
			MWD - Standard	

Plan Sections										
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Dogleg	Build	Turn	TFO	Target
Depth	(°)	(°)	Depth	(usft)	(usft)	Rate	Rate	Rate	(°)	
(usft)			(usft)			(°/100usft)	(°/100usft)	(°/100usft)		
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5,621.60	0.00	0.00	5,621.60	0.00	0.00	0.00	0.00	0.00	0.00	
6,221.60	30.00	269.00	6,194.56	-2.68	-153.50	5.00	5.00	0.00	269.00	
8,716.60	30.00	269.00	8,355.29	-24.45	-1,400.81	0.00	0.00	0.00	0.00	
9,614.88	90.00	179.34	8,850.00	-600.64	-1,679.85	10.00	6.68	-9.98	-89.70	
19,978.92	90.00	179.34	8,850.00	-10,964.00	-1,561.20	0.00	0.00	0.00	0.00	



Planning Report



Database:	EDM 5000:14 Single User Db	Local Co-ordinate Reference:	Well Warrior Fed Com 2734B:4H
Company:	Ridge Runner Resources	TVD Reference:	GL 3110' + 30' KB @ 3140.00usft (Rig TBD)
Project:	Eddy County, NM (NAD83)	MD Reference:	GL 3110' + 30' KB @ 3140.00usft (Rig TBD)
Site:	Warrior Fed Com	North Reference:	Grid
Well:	Warrior Fed Com 2734B:4H	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	
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00	
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00	
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00	
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00	
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00	
900.00	0.00	0.00	900.00	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	
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,300.00	0.00	0.00	3,300.00	0.00	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	
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,800.00	0.00	0.00	3,800.00	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	
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	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	
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,700.00	0.00	0.00	4,700.00	0.00	0.00	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	
4,900.00	0.00	0.00	4,900.00	0.00	0.00	0.00	0.00	0.00	0.00	
5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
5,100.00	0.00	0.00	5,100.00	0.00	0.00	0.00	0.00	0.00	0.00	
5,200.00	0.00	0.00	5,200.00	0.00	0.00	0.00	0.00	0.00	0.00	
5,300.00	0.00	0.00	5,300.00	0.00	0.00	0.00	0.00	0.00	0.00	

Database: EDM:5000:14:Single User Db
Company: Ridge Runner Resources
Project: Eddy County, NM (NAD83)
Site: Warrior Fed Com
Well: Warrior Fed Com 2734B 4H
Wellbore: Wellbore #1
Design: plan1

Local Co-ordinate Reference: Well Warrior Fed Com 2734B 4H
TVD Reference: GL 3110' + 30' KB @ 3140.00usft (Rig TBD)
MD Reference: GL 3110' + 30' KB @ 3140.00usft (Rig TBD)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

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
5,500.00	0.00	0.00	5,500.00	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
5,621.60	0.00	0.00	5,621.60	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 5.00									
5,700.00	3.92	269.00	5,699.94	-0.05	-2.68	0.42	5.00	5.00	0.00
5,800.00	8.92	269.00	5,799.28	-0.24	-13.86	2.19	5.00	5.00	0.00
5,900.00	13.92	269.00	5,897.27	-0.59	-33.65	5.32	5.00	5.00	0.00
6,000.00	18.92	269.00	5,993.16	-1.08	-61.90	9.80	5.00	5.00	0.00
6,100.00	23.92	269.00	6,086.22	-1.72	-98.40	15.57	5.00	5.00	0.00
6,200.00	28.92	269.00	6,175.75	-2.49	-142.88	22.61	5.00	5.00	0.00
6,221.60	30.00	269.00	6,194.56	-2.68	-153.50	24.29	5.00	5.00	0.00
Start 2495.00 hold at 6221.60 MD									
6,300.00	30.00	269.00	6,262.45	-3.36	-192.69	30.49	0.00	0.00	0.00
6,400.00	30.00	269.00	6,349.06	-4.24	-242.69	38.40	0.00	0.00	0.00
6,500.00	30.00	269.00	6,435.66	-5.11	-292.68	46.32	0.00	0.00	0.00
6,600.00	30.00	269.00	6,522.26	-5.98	-342.67	54.23	0.00	0.00	0.00
6,700.00	30.00	269.00	6,608.86	-6.85	-392.66	62.14	0.00	0.00	0.00
6,800.00	30.00	269.00	6,695.47	-7.73	-442.66	70.05	0.00	0.00	0.00
6,900.00	30.00	269.00	6,782.07	-8.60	-492.65	77.96	0.00	0.00	0.00
7,000.00	30.00	269.00	6,868.67	-9.47	-542.64	85.87	0.00	0.00	0.00
7,100.00	30.00	269.00	6,955.27	-10.34	-592.63	93.78	0.00	0.00	0.00
7,200.00	30.00	269.00	7,041.88	-11.22	-642.63	101.69	0.00	0.00	0.00
7,300.00	30.00	269.00	7,128.48	-12.09	-692.62	109.60	0.00	0.00	0.00
7,400.00	30.00	269.00	7,215.08	-12.96	-742.61	117.52	0.00	0.00	0.00
7,500.00	30.00	269.00	7,301.68	-13.83	-792.60	125.43	0.00	0.00	0.00
7,600.00	30.00	269.00	7,388.29	-14.71	-842.60	133.34	0.00	0.00	0.00
7,700.00	30.00	269.00	7,474.89	-15.58	-892.59	141.25	0.00	0.00	0.00
7,800.00	30.00	269.00	7,561.49	-16.45	-942.58	149.16	0.00	0.00	0.00
7,900.00	30.00	269.00	7,648.10	-17.33	-992.57	157.07	0.00	0.00	0.00
8,000.00	30.00	269.00	7,734.70	-18.20	-1,042.56	164.98	0.00	0.00	0.00
8,100.00	30.00	269.00	7,821.30	-19.07	-1,092.56	172.89	0.00	0.00	0.00
8,200.00	30.00	269.00	7,907.90	-19.94	-1,142.55	180.80	0.00	0.00	0.00
8,300.00	30.00	269.00	7,994.51	-20.82	-1,192.54	188.72	0.00	0.00	0.00
8,400.00	30.00	269.00	8,081.11	-21.69	-1,242.53	196.63	0.00	0.00	0.00
8,500.00	30.00	269.00	8,167.71	-22.56	-1,292.53	204.54	0.00	0.00	0.00
8,600.00	30.00	269.00	8,254.31	-23.43	-1,342.52	212.45	0.00	0.00	0.00
8,700.00	30.00	269.00	8,340.92	-24.31	-1,392.51	220.36	0.00	0.00	0.00
8,716.60	30.00	269.00	8,355.29	-24.45	-1,400.81	221.67	0.00	0.00	0.00
Start DLS 10.00 TFO -89.70									
8,800.00	31.08	252.68	8,427.25	-31.24	-1,442.28	234.24	10.00	1.29	-19.57
8,900.00	34.79	235.54	8,511.35	-55.12	-1,490.56	264.69	10.00	3.72	-17.14
9,000.00	40.45	221.97	8,590.66	-95.49	-1,535.89	311.04	10.00	5.65	-13.56
9,100.00	47.34	211.49	8,662.77	-151.10	-1,576.89	371.88	10.00	6.89	-10.49
9,200.00	54.99	203.20	8,725.50	-220.28	-1,612.32	445.36	10.00	7.65	-8.29
9,300.00	63.11	196.37	8,776.93	-300.91	-1,641.09	529.24	10.00	8.12	-6.83
9,400.00	71.50	190.48	8,815.51	-390.55	-1,662.34	620.98	10.00	8.40	-5.89
9,500.00	80.07	185.15	8,840.06	-486.47	-1,675.41	717.79	10.00	8.56	-5.33
9,600.00	88.71	180.09	8,849.83	-585.76	-1,679.92	816.72	10.00	8.64	-5.06
9,605.34	89.17	179.82	8,849.93	-591.10	-1,679.92	822.01	10.00	8.66	-5.00
Warrior Fed Com 2734B 4H FTP									
9,614.88	90.00	-179.34	8,850.00	-600.64	-1,679.85	831.44	10.00	8.66	-5.00
Start 10364.04 hold at 9614.88 MD									

Database: EDM 5000.14 Single User Db.
 Company: Ridge Runner Resources
 Project: Eddy County, NM (NAD83)
 Site: Warrior Fed Com
 Well: Warrior Fed Com 2734B 4H
 Wellbore: Wellbore #1
 Design: plan1

Local Co-ordinate Reference: Well Warrior Fed Com 2734B 4H
 TVD Reference: GL 3110' + 30' KB @ 3140.00usft (Rig TBD)
 MD Reference: GL 3110' + 30' KB @ 3140.00usft (Rig TBD)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

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)
9,700.00	90.00	179.34	8,850.00	-685.75	-1,678.87	915.57	0.00	0.00	0.00
9,800.00	90.00	179.34	8,850.00	-785.75	-1,677.73	1,014.40	0.00	0.00	0.00
9,900.00	90.00	179.34	8,850.00	-885.74	-1,676.58	1,113.24	0.00	0.00	0.00
10,000.00	90.00	179.34	8,850.00	-985.73	-1,675.44	1,212.07	0.00	0.00	0.00
10,100.00	90.00	179.34	8,850.00	-1,085.73	-1,674.29	1,310.90	0.00	0.00	0.00
10,200.00	90.00	179.34	8,850.00	-1,185.72	-1,673.15	1,409.74	0.00	0.00	0.00
10,300.00	90.00	179.34	8,850.00	-1,285.71	-1,672.00	1,508.57	0.00	0.00	0.00
10,400.00	90.00	179.34	8,850.00	-1,385.71	-1,670.86	1,607.40	0.00	0.00	0.00
10,500.00	90.00	179.34	8,850.00	-1,485.70	-1,669.71	1,706.24	0.00	0.00	0.00
10,600.00	90.00	179.34	8,850.00	-1,585.69	-1,668.57	1,805.07	0.00	0.00	0.00
10,700.00	90.00	179.34	8,850.00	-1,685.69	-1,667.42	1,903.91	0.00	0.00	0.00
10,800.00	90.00	179.34	8,850.00	-1,785.68	-1,666.28	2,002.74	0.00	0.00	0.00
10,900.00	90.00	179.34	8,850.00	-1,885.67	-1,665.14	2,101.57	0.00	0.00	0.00
11,000.00	90.00	179.34	8,850.00	-1,985.67	-1,663.99	2,200.41	0.00	0.00	0.00
11,100.00	90.00	179.34	8,850.00	-2,085.66	-1,662.85	2,299.24	0.00	0.00	0.00
11,200.00	90.00	179.34	8,850.00	-2,185.66	-1,661.70	2,398.07	0.00	0.00	0.00
11,300.00	90.00	179.34	8,850.00	-2,285.65	-1,660.56	2,496.91	0.00	0.00	0.00
11,400.00	90.00	179.34	8,850.00	-2,385.64	-1,659.41	2,595.74	0.00	0.00	0.00
11,500.00	90.00	179.34	8,850.00	-2,485.64	-1,658.27	2,694.57	0.00	0.00	0.00
11,600.00	90.00	179.34	8,850.00	-2,585.63	-1,657.12	2,793.41	0.00	0.00	0.00
11,700.00	90.00	179.34	8,850.00	-2,685.62	-1,655.98	2,892.24	0.00	0.00	0.00
11,800.00	90.00	179.34	8,850.00	-2,785.62	-1,654.83	2,991.07	0.00	0.00	0.00
11,900.00	90.00	179.34	8,850.00	-2,885.61	-1,653.69	3,089.91	0.00	0.00	0.00
12,000.00	90.00	179.34	8,850.00	-2,985.60	-1,652.54	3,188.74	0.00	0.00	0.00
12,100.00	90.00	179.34	8,850.00	-3,085.60	-1,651.40	3,287.58	0.00	0.00	0.00
12,200.00	90.00	179.34	8,850.00	-3,185.59	-1,650.25	3,386.41	0.00	0.00	0.00
12,300.00	90.00	179.34	8,850.00	-3,285.58	-1,649.11	3,485.24	0.00	0.00	0.00
12,400.00	90.00	179.34	8,850.00	-3,385.58	-1,647.96	3,584.08	0.00	0.00	0.00
12,500.00	90.00	179.34	8,850.00	-3,485.57	-1,646.82	3,682.91	0.00	0.00	0.00
12,600.00	90.00	179.34	8,850.00	-3,585.56	-1,645.67	3,781.74	0.00	0.00	0.00
12,700.00	90.00	179.34	8,850.00	-3,685.56	-1,644.53	3,880.58	0.00	0.00	0.00
12,800.00	90.00	179.34	8,850.00	-3,785.55	-1,643.38	3,979.41	0.00	0.00	0.00
12,900.00	90.00	179.34	8,850.00	-3,885.54	-1,642.24	4,078.24	0.00	0.00	0.00
13,000.00	90.00	179.34	8,850.00	-3,985.54	-1,641.09	4,177.08	0.00	0.00	0.00
13,100.00	90.00	179.34	8,850.00	-4,085.53	-1,639.95	4,275.91	0.00	0.00	0.00
13,200.00	90.00	179.34	8,850.00	-4,185.52	-1,638.80	4,374.74	0.00	0.00	0.00
13,300.00	90.00	179.34	8,850.00	-4,285.52	-1,637.66	4,473.58	0.00	0.00	0.00
13,400.00	90.00	179.34	8,850.00	-4,385.51	-1,636.52	4,572.41	0.00	0.00	0.00
13,500.00	90.00	179.34	8,850.00	-4,485.50	-1,635.37	4,671.25	0.00	0.00	0.00
13,600.00	90.00	179.34	8,850.00	-4,585.50	-1,634.23	4,770.08	0.00	0.00	0.00
13,700.00	90.00	179.34	8,850.00	-4,685.49	-1,633.08	4,868.91	0.00	0.00	0.00
13,800.00	90.00	179.34	8,850.00	-4,785.48	-1,631.94	4,967.75	0.00	0.00	0.00
13,900.00	90.00	179.34	8,850.00	-4,885.48	-1,630.79	5,066.58	0.00	0.00	0.00
14,000.00	90.00	179.34	8,850.00	-4,985.47	-1,629.65	5,165.41	0.00	0.00	0.00
14,100.00	90.00	179.34	8,850.00	-5,085.47	-1,628.50	5,264.25	0.00	0.00	0.00
14,200.00	90.00	179.34	8,850.00	-5,185.46	-1,627.36	5,363.08	0.00	0.00	0.00
14,300.00	90.00	179.34	8,850.00	-5,285.45	-1,626.21	5,461.91	0.00	0.00	0.00
14,400.00	90.00	179.34	8,850.00	-5,385.45	-1,625.07	5,560.75	0.00	0.00	0.00
14,500.00	90.00	179.34	8,850.00	-5,485.44	-1,623.92	5,659.58	0.00	0.00	0.00
14,600.00	90.00	179.34	8,850.00	-5,585.43	-1,622.78	5,758.42	0.00	0.00	0.00
14,700.00	90.00	179.34	8,850.00	-5,685.43	-1,621.63	5,857.25	0.00	0.00	0.00
14,800.00	90.00	179.34	8,850.00	-5,785.42	-1,620.49	5,956.08	0.00	0.00	0.00
14,900.00	90.00	179.34	8,850.00	-5,885.41	-1,619.34	6,054.92	0.00	0.00	0.00
15,000.00	90.00	179.34	8,850.00	-5,985.41	-1,618.20	6,153.75	0.00	0.00	0.00

Database: EDM:5000.14 Single User Db
 Company: Ridge Runner Resources
 Project: Eddy County, NM (NAD83)
 Site: Warrior Fed Com
 Well: Warrior Fed Com 2734B 4H
 Wellbore: Wellbore #1
 Design: plan1

Local Co-ordinate Reference: Well Warrior Fed Com 2734B 4H
 TVD Reference: GL 3110' + 30' KB @ 3140.00usft (Rig: TBD)
 MD Reference: GL 3110' + 30' KB @ 3140.00usft (Rig: TBD)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

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)
15,100.00	90.00	179.34	8,850.00	-6,085.40	-1,617.05	6,252.58	0.00	0.00	0.00
15,200.00	90.00	179.34	8,850.00	-6,185.39	-1,615.91	6,351.42	0.00	0.00	0.00
15,300.00	90.00	179.34	8,850.00	-6,285.39	-1,614.76	6,450.25	0.00	0.00	0.00
15,400.00	90.00	179.34	8,850.00	-6,385.38	-1,613.62	6,549.08	0.00	0.00	0.00
15,500.00	90.00	179.34	8,850.00	-6,485.37	-1,612.47	6,647.92	0.00	0.00	0.00
15,600.00	90.00	179.34	8,850.00	-6,585.37	-1,611.33	6,746.75	0.00	0.00	0.00
15,700.00	90.00	179.34	8,850.00	-6,685.36	-1,610.18	6,845.58	0.00	0.00	0.00
15,800.00	90.00	179.34	8,850.00	-6,785.35	-1,609.04	6,944.42	0.00	0.00	0.00
15,900.00	90.00	179.34	8,850.00	-6,885.35	-1,607.90	7,043.25	0.00	0.00	0.00
16,000.00	90.00	179.34	8,850.00	-6,985.34	-1,606.75	7,142.09	0.00	0.00	0.00
16,100.00	90.00	179.34	8,850.00	-7,085.33	-1,605.61	7,240.92	0.00	0.00	0.00
16,200.00	90.00	179.34	8,850.00	-7,185.33	-1,604.46	7,339.75	0.00	0.00	0.00
16,300.00	90.00	179.34	8,850.00	-7,285.32	-1,603.32	7,438.59	0.00	0.00	0.00
16,400.00	90.00	179.34	8,850.00	-7,385.31	-1,602.17	7,537.42	0.00	0.00	0.00
16,500.00	90.00	179.34	8,850.00	-7,485.31	-1,601.03	7,636.25	0.00	0.00	0.00
16,600.00	90.00	179.34	8,850.00	-7,585.30	-1,599.88	7,735.09	0.00	0.00	0.00
16,700.00	90.00	179.34	8,850.00	-7,685.29	-1,598.74	7,833.92	0.00	0.00	0.00
16,800.00	90.00	179.34	8,850.00	-7,785.29	-1,597.59	7,932.75	0.00	0.00	0.00
16,900.00	90.00	179.34	8,850.00	-7,885.28	-1,596.45	8,031.59	0.00	0.00	0.00
17,000.00	90.00	179.34	8,850.00	-7,985.28	-1,595.30	8,130.42	0.00	0.00	0.00
17,100.00	90.00	179.34	8,850.00	-8,085.27	-1,594.16	8,229.25	0.00	0.00	0.00
17,200.00	90.00	179.34	8,850.00	-8,185.26	-1,593.01	8,328.09	0.00	0.00	0.00
17,300.00	90.00	179.34	8,850.00	-8,285.26	-1,591.87	8,426.92	0.00	0.00	0.00
17,400.00	90.00	179.34	8,850.00	-8,385.25	-1,590.72	8,525.76	0.00	0.00	0.00
17,500.00	90.00	179.34	8,850.00	-8,485.24	-1,589.58	8,624.59	0.00	0.00	0.00
17,600.00	90.00	179.34	8,850.00	-8,585.24	-1,588.43	8,723.42	0.00	0.00	0.00
17,700.00	90.00	179.34	8,850.00	-8,685.23	-1,587.29	8,822.26	0.00	0.00	0.00
17,800.00	90.00	179.34	8,850.00	-8,785.22	-1,586.14	8,921.09	0.00	0.00	0.00
17,900.00	90.00	179.34	8,850.00	-8,885.22	-1,585.00	9,019.92	0.00	0.00	0.00
18,000.00	90.00	179.34	8,850.00	-8,985.21	-1,583.85	9,118.76	0.00	0.00	0.00
18,100.00	90.00	179.34	8,850.00	-9,085.20	-1,582.71	9,217.59	0.00	0.00	0.00
18,200.00	90.00	179.34	8,850.00	-9,185.20	-1,581.57	9,316.42	0.00	0.00	0.00
18,300.00	90.00	179.34	8,850.00	-9,285.19	-1,580.42	9,415.26	0.00	0.00	0.00
18,400.00	90.00	179.34	8,850.00	-9,385.18	-1,579.28	9,514.09	0.00	0.00	0.00
18,500.00	90.00	179.34	8,850.00	-9,485.18	-1,578.13	9,612.92	0.00	0.00	0.00
18,600.00	90.00	179.34	8,850.00	-9,585.17	-1,576.99	9,711.76	0.00	0.00	0.00
18,700.00	90.00	179.34	8,850.00	-9,685.16	-1,575.84	9,810.59	0.00	0.00	0.00
18,800.00	90.00	179.34	8,850.00	-9,785.16	-1,574.70	9,909.43	0.00	0.00	0.00
18,900.00	90.00	179.34	8,850.00	-9,885.15	-1,573.55	10,008.26	0.00	0.00	0.00
19,000.00	90.00	179.34	8,850.00	-9,985.14	-1,572.41	10,107.09	0.00	0.00	0.00
19,100.00	90.00	179.34	8,850.00	-10,085.14	-1,571.26	10,205.93	0.00	0.00	0.00
19,200.00	90.00	179.34	8,850.00	-10,185.13	-1,570.12	10,304.76	0.00	0.00	0.00
19,300.00	90.00	179.34	8,850.00	-10,285.12	-1,568.97	10,403.59	0.00	0.00	0.00
19,400.00	90.00	179.34	8,850.00	-10,385.12	-1,567.83	10,502.43	0.00	0.00	0.00
19,500.00	90.00	179.34	8,850.00	-10,485.11	-1,566.68	10,601.26	0.00	0.00	0.00
19,600.00	90.00	179.34	8,850.00	-10,585.10	-1,565.54	10,700.09	0.00	0.00	0.00
19,700.00	90.00	179.34	8,850.00	-10,685.10	-1,564.39	10,798.93	0.00	0.00	0.00
19,800.00	90.00	179.34	8,850.00	-10,785.09	-1,563.25	10,897.76	0.00	0.00	0.00
19,900.00	90.00	179.34	8,850.00	-10,885.09	-1,562.10	10,996.59	0.00	0.00	0.00
19,978.92	90.00	179.34	8,850.00	-10,964.00	-1,561.20	11,074.59	0.00	0.00	0.00

TD @ 19978.92' MD - Warrior Fed Com 2734B 4H LTP/EOT



Planning Report



Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Warrior Fed Com 2734B 4H
Company:	Ridge Runner Resources	TVD Reference:	GL 3110' + 30" KB @ 3140.00usft (Rig TBD)
Project:	Eddy County, NM (NAD83)	MD Reference:	GL 3110' + 30" KB @ 3140.00usft (Rig TBD)
Site:	Warrior Fed Com	North Reference:	Grid
Well:	Warrior Fed Com 2734B 4H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	plan1		

Design Targets

Target Name	hit/miss target	Shape	Dip Angle (°)	Dip Dir (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Warrior Fed Com 273	- plan hits target center	- Point	0.00	0.00	8,850.00	-10,964.00	-1,561.20	488,333.60	621,755.20	32° 20' 32.034 N	104° 4' 22.584 W
Warrior Fed Com 273	- plan misses target center by 0.32usft at 9605.34usft MD (8849.93 TVD, -591.10 N, -1679.92 E)	- Point	0.00	0.00	8,850.00	-591.10	-1,679.60	498,706.50	621,636.80	32° 22' 14.684 N	104° 4' 23.670 W

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
5,621.60	5,621.60	0.00	0.00	Start Build 5.00
6,221.60	6,194.56	-2.68	-153.50	Start 2495.00 hold at 6221.60 MD
8,716.60	8,355.29	-24.45	-1,400.81	Start DLS 10.00 TFO -89.70
9,614.88	8,850.00	-600.64	-1,679.85	Start 10364.04 hold at 9614.88 MD
19,978.92	8,850.00	-10,964.00	-1,561.20	TD @ 19978.92 MD

Ridge Runner Resources Operating, LLC
Warrior Fed Com 2734 B 4H
SHL 500' FSL & 300' FEL 22-22s-28e
BHL 100' FSL & 1980' FEL 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'	6166'	hydrocarbons
1 st Bone Spring sandstone	7175'	7354'	hydrocarbons
2 nd Bone Spring sandstone	8000'	8306'	hydrocarbons
3 rd Bone Spring carbonate	8325'	8682'	hydrocarbons
(KOP	8356'	8717'	hydrocarbons)
TD	8850'	19979'	hydrocarbons

2. NOTABLE ZONES

Third Bone Spring carbonate is the goal. Closest water well (C 00036) is 2.81 miles southwest. Depth to water was not reported in the 106' deep 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:

Ridge Runner Resources Operating, LLC
Warrior Fed Com 2734 B 4H
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Eddy County, NM

DRILL PLAN PAGE 2

'fee/fee/Fed well'

$$\begin{aligned} &8272' \text{ TVD} \times 10 \text{ ppg mud} \times 0.052 = 4301 \text{ psi} \\ &\underline{- 8272' \times 0.22 \text{ psi/ft} = 1820 \text{ psi}} \\ &2481 \text{ psi} \end{aligned}$$

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:

$$\begin{aligned} &8850' \text{ TVD} \times 10.0 \text{ ppg mud} \times 0.052 = 4602 \text{ psi} \\ &\underline{- 8850' \times 0.22 \text{ psi/ft} = 1947 \text{ psi}} \\ &2655 \text{ psi} \end{aligned}$$

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.

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.

Ridge Runner Resources Operating, LLC
 Warrior Fed Com 2734 B 4H
 SHL 500' FSL & 300' FEL 22-22s-28e
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 Eddy County, NM

DRILL PLAN PAGE 3

'fee/fee/Fed well'

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' - 8620'	0' - 8271'	Inter. 9.625"	47	L-80 HC	BTC	1.33 (10.0#)	1.60 (10.0#)	3.41 (10.0#)
8.5"	0' - 8620'	0' - 8271'	Prod. 1 7"	26	P-110 HC	CDC	1.47	2.34	4.45
8.5"	8620' - 19979'	8271' - 8850'	Prod. 2 5.5"	20	P-110	CDC	2.41 (10.0#)	2.16 (10.0#)	68.1 (10.0#)

Minimum BLM safety factors: collapse = 1.125, burst = 1.0, tension air = 1.6, and tension mud = 1.8.

Ridge Runner Resources Operating, LLC
 Warrior Fed Com 2734 B 4H
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 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 rd joint to GL	
Intermediate Stage 1 (8620' - 2700')	Lead	1015	2.50	2537	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 th joint from shoe to GL	
Intermediate Stage 2 (2700' - GL)	Lead	660	2.19	1445	12.7	Class C + 6% gel + 5% salt + additives
	Tail	100	1.32	132	14.8	Class C
TOC = GL		100% Excess			Centralizers: shoe joint + above & below DV tool + every 4 th joint from shoe to GL	
Production	Tail	2420	1.27	3073	14.2	50/50/2 Poz/G/gel + additives
TOC = 8120' (500' above intermediate shoe)		15% Excess			Centralizers: shoe joint + every 4 th joint to 7675'	

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.

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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' - 8620'	10.0	28-30	N/C
oil based mud	8620' - 19979'	10.0	50-55	<14 HPHT

*Contingency for losses: 9.0-9.5 ppg pre-hydrated fresh gel mud system with MMS to control salt leaching.

6. CORES, TESTS, & LOGS

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

7. DOWN HOLE CONDITIONS

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

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

8. OTHER INFORMATION

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

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

Ridge Runner Resources Operating, LLC
Warrior Fed Com 2734 B 4H
SHL 500' FSL & 300' FEL 22-22s-28e
BHL 100' FSL & 1980' FEL 34-22s-28e
Eddy County, NM

DRILL PLAN PAGE 6

'fee/fee/Fed well'

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



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

SUPO Data Report

01/02/2020

APD ID: 10400039251

Submission Date: 02/19/2019

Highlighted data
reflects the most
recent changes.

Operator Name: RIDGE RUNNER RESOURCES OPERATING LLC

Well Name: WARRIOR FED COM 2734 B

Well Number: 4H

[Show Final Text](#)

Well Type: OIL 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 B

Well Number: 4H

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 required

Source transportation land ownership: OTHER

Describe transportation land ownership: Fee Fee Fed - SUPO not required

Water source volume (barrels): 0

Source volume (acre-feet): 0

Source volume (gal): 0

Water source and transportation map:

Warrior_2734B_4H_Fee_Fee_Fed_20190219093724.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 B

Well Number: 4H

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 - SUPO not required

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 B

Well Number: 4H

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_4H_Well_Site_Layout_20191122161833.pdf

Comments:

Section 10 - Plans for Surface Reclamation

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

Multiple Well Pad Number: PAD 2

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

Road proposed disturbance (acres): 0

Powerline proposed disturbance
(acres): 0

Pipeline proposed disturbance
(acres): 0

Other proposed disturbance (acres): 0

Total proposed disturbance: 0

Well pad interim reclamation (acres):

Road interim reclamation (acres):

Powerline interim reclamation (acres):
0

Pipeline interim reclamation (acres):

Other interim reclamation (acres):

Total interim reclamation:

Well pad long term disturbance
(acres):

Road long term disturbance (acres):

Powerline long term disturbance
(acres): 0

Pipeline long term disturbance
(acres):

Other long term disturbance (acres):

Total long term disturbance:

Operator Name: RIDGE RUNNER RESOURCES OPERATING LLC

Well Name: WARRIOR FED COM 2734 B

Well Number: 4H

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?

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 B

Well Number: 4H

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: Fee Fee Fed - SUPO not required

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 B

Well Number: 4H

Section 12 - Other Information

Right of Way needed? NO

Use APD as ROW?

ROW Type(s):

ROW Applications

SUPO Additional Information:

Use a previously conducted onsite? NO

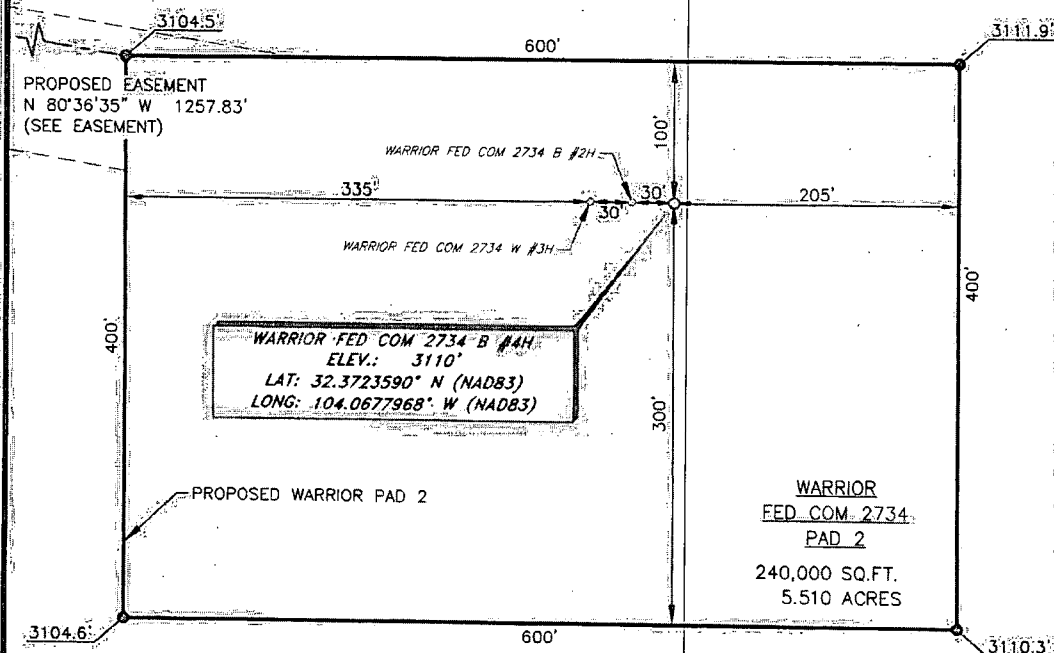
Previous Onsite information:

Other SUPO Attachment

Ridge Runner Resources Operating Warrior Fed Com 2734B 4H

Fee Fee Fed – SUPO not required

RIDGE RUNNER RESOURCES OPERATING, LLC.
WARRIOR FED COM 2734 B #4H
(500' FSL & 300' FEL)
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. 0.9 miles to proposed road on the right.
 Turn right and go East approx. 1.0 miles to proposed location on the right.

SCALE: 1" = 100'
 0 50' 100'
 BEARINGS ARE GRID NAD 83
 NM EAST
 DISTANCES ARE HORIZ. GROUND.

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 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	NEW WELL	1.21.19
3		
4		



701 S. CECIL ST., HOBBS, NM. 88240 (575) 964-8200

Copyright: 2018 - All Rights Reserved	
SCALE: 1" = 100'	
SURVEYED BY: AB/RU	
DRAWN BY: AAC	
APPROVED BY: JLF	
JOB NO.: LS18111311	
SHEET: B 4H PAD	



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

PWD Data Report

01/02/2020

APD ID: 10400039251

Submission Date: 02/19/2019

Operator Name: RIDGE RUNNER RESOURCES OPERATING LLC

Well Name: WARRIOR FED COM 2734 B

Well Number: 4H

Well Type: OIL 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:

PWD disturbance (acres):

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:

Operator Name: RIDGE RUNNER RESOURCES OPERATING LLC

Well Name: WARRIOR FED COM 2734 B

Well Number: 4H

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 B

Well Number: 4H

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 B

Well Number: 4H

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: 10400039251

Submission Date: 02/19/2019

Operator Name: RIDGE RUNNER RESOURCES OPERATING LLC

Highlighted data
reflects the most
recent changes

Well Name: WARRIOR FED COM 2734 B

Well Number: 4H

Well Type: OIL WELL

Well Work Type: Drill

[Show Final Text](#)

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:

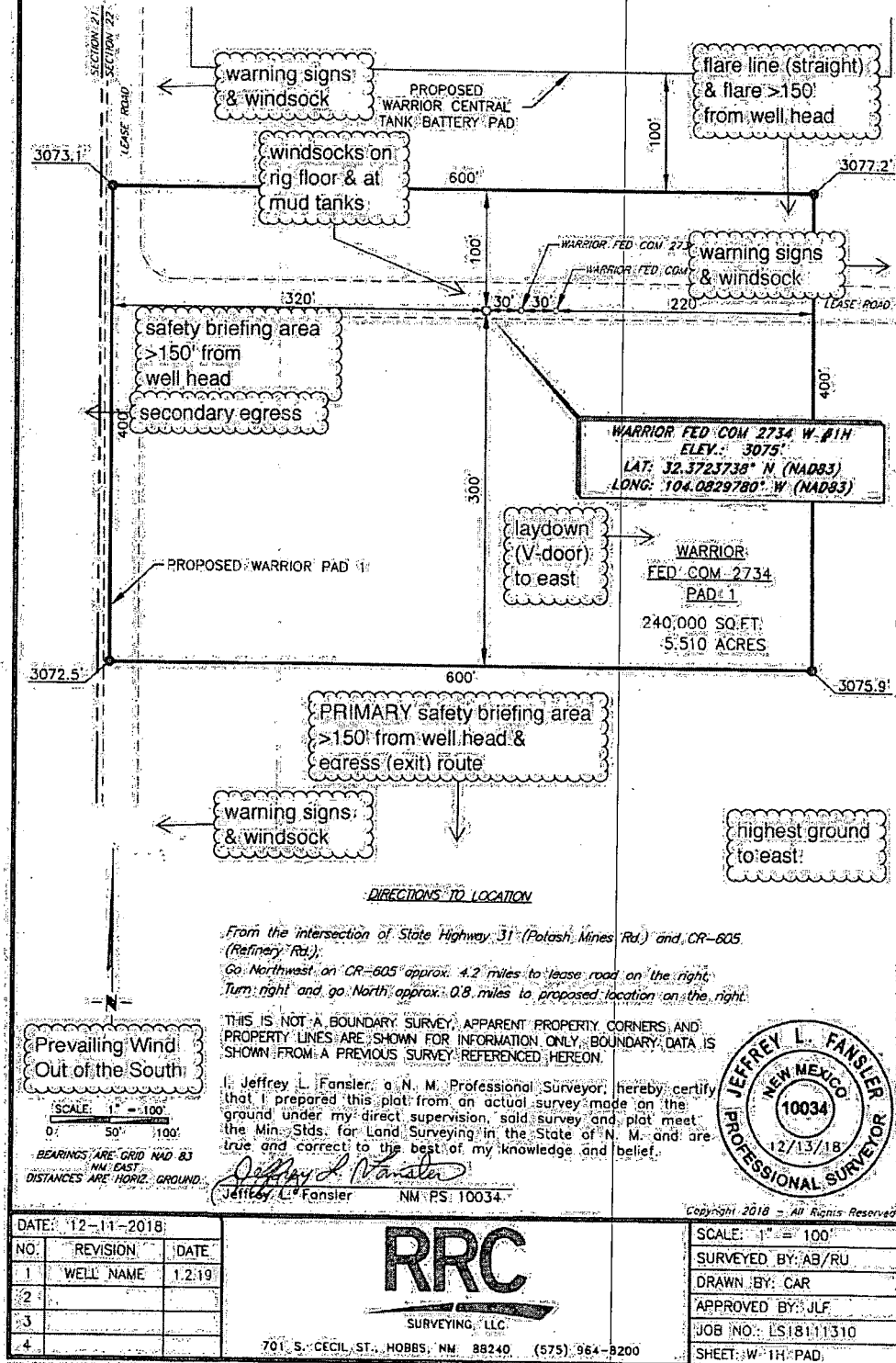
RIDGE RUNNER RESOURCES OPERATING, LLC.

WARRIOR FED COM 2734 W #1H

(500' FSL & 330' FWL)

SECTION 22, T22S, R28E

N. M. P. M., EDDY COUNTY, NEW MEXICO



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

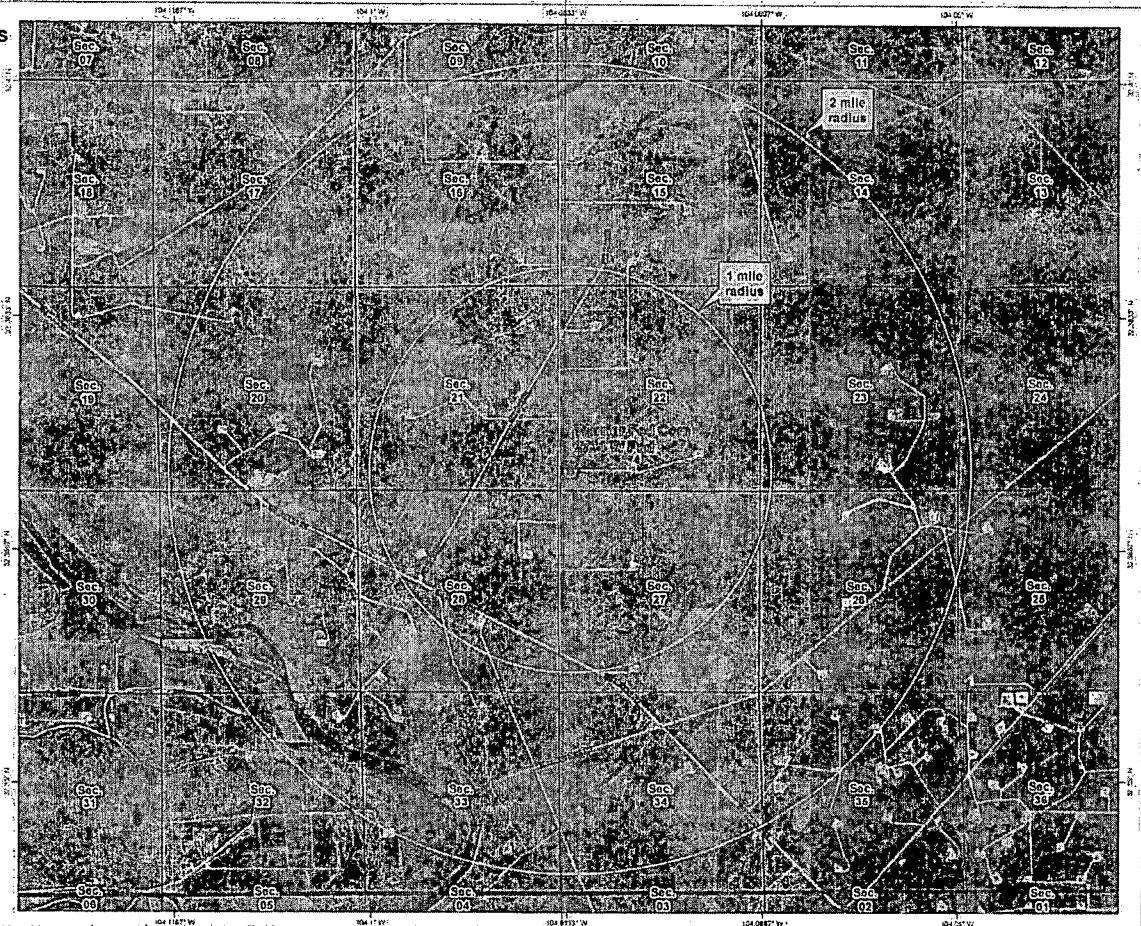
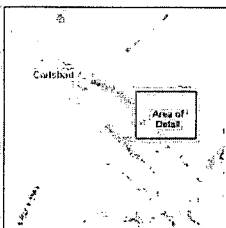
0 0.4 0.8
Miles



NAD 1983 New Mexico State Plane East
FIPS 3001 Feet

PERMITS WEST

Prepared by Permits West, Inc., January 4, 2010
for Ridge Runner Resources Operating, LLC



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

- a. All personnel will be trained in H₂S working conditions as required by Onshore Order 6 before drilling out of the surface casing.
- b. Two briefing areas will be established. Each will be at least 150' from the wellhead, perpendicular from one another, and easily entered and exited. See H₂S page 5 for more details.
- c. H₂S Safety Equipment/Systems:
 - i. Well Control Equipment
 - Flare line will be $\geq 150'$ from the wellhead and ignited by a pilot light.
 - Beware of SO₂ created by flaring.
 - Choke manifold will include a remotely operated choke.
 - Mud gas separator
 - ii. Protective Equipment for Essential Personnel
 - Every person on site will be required to wear a personal H₂S and SO₂ 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. H₂S Detection & Monitoring Equipment

- Every person on site will be required to wear a personal H₂S and SO₂ monitor at all times while on site. Monitors will not be worn on hard hats. Monitors will be worn on the front of the chest.
- A stationary detector with three sensors will be in the doghouse.
- Sensors will be installed on the rig floor, bell nipple, and at the end of the flow line or where drilling fluids are discharged.
- Visual alarm will be triggered at 10 ppm.
- Audible alarm will be triggered at 10 ppm.
- Calibration will occur at least every 30 days. Gas sample tubes will be kept in the safety trailer.

iv. Visual Warning System

- Color-coded H₂S condition sign will be set at the entrance to the pad.
- Color-coded condition flag will be installed to indicate current H₂S 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 ≥ 10 will be maintained to control corrosion, H₂S gas returns to the surface, and minimize sulfide stress cracking and embrittlement.
- Drilling mud containing H₂S gas will be degassed at an optimum location for the rig configuration.
- This gas will be piped into the flare system.
- Enough mud additives will be on location to scavenge and/or neutralize H₂S where formation pressures are unknown.

vi. Metallurgy

- All equipment that has the potential to be exposed to H₂S will be suitable for H₂S service.
- Equipment that will meet these metallurgical standards include the drill string, casing, wellhead, BOP assembly, casing head and spool, rotating head, kill lines, choke, choke manifold and lines, valves, mud-gas separators, DST tools, test units, tubing, flanges, and other related equipment (elastomer packings and seals).

vii. Communication from well site

- Cell phones and/or two-way radios will be used to communicate from the well site.

d. A remote-controlled choke, mud-gas separator, and a rotating head will be installed before drilling or testing any formation expected to contain H₂S.

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

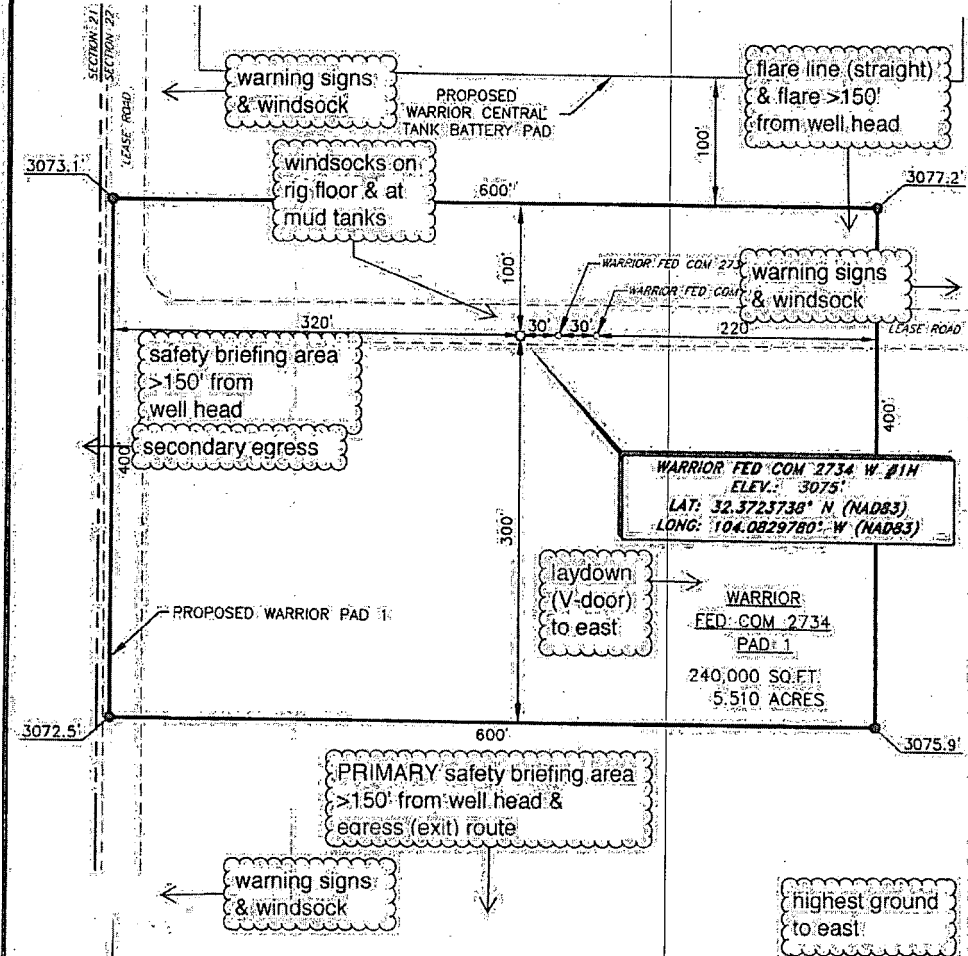
RIDGE RUNNER RESOURCES OPERATING, LLC.

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 (Polash, 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
NM DIST.
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 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 true and correct to the best of my knowledge and belief.

Jeffrey L. Fansler
Jeffrey L. Fansler NM PS 10034



Copyright 2018 - All Rights Reserved

NO.	REVISION	DATE
1	WELL NAME	12.19
2		
3		
4		

RRC

SURVEYING, LLC

701 S. CECIL ST., HOBBS, NM 88240 (575) 964-8200

SCALE: 1" = 100'

SURVEYED BY: AB/RU

DRAWN BY: CAR

APPROVED BY: JLF

JOB NO.: LS1811310

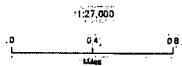
SHEET: W-1H-PAD

**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

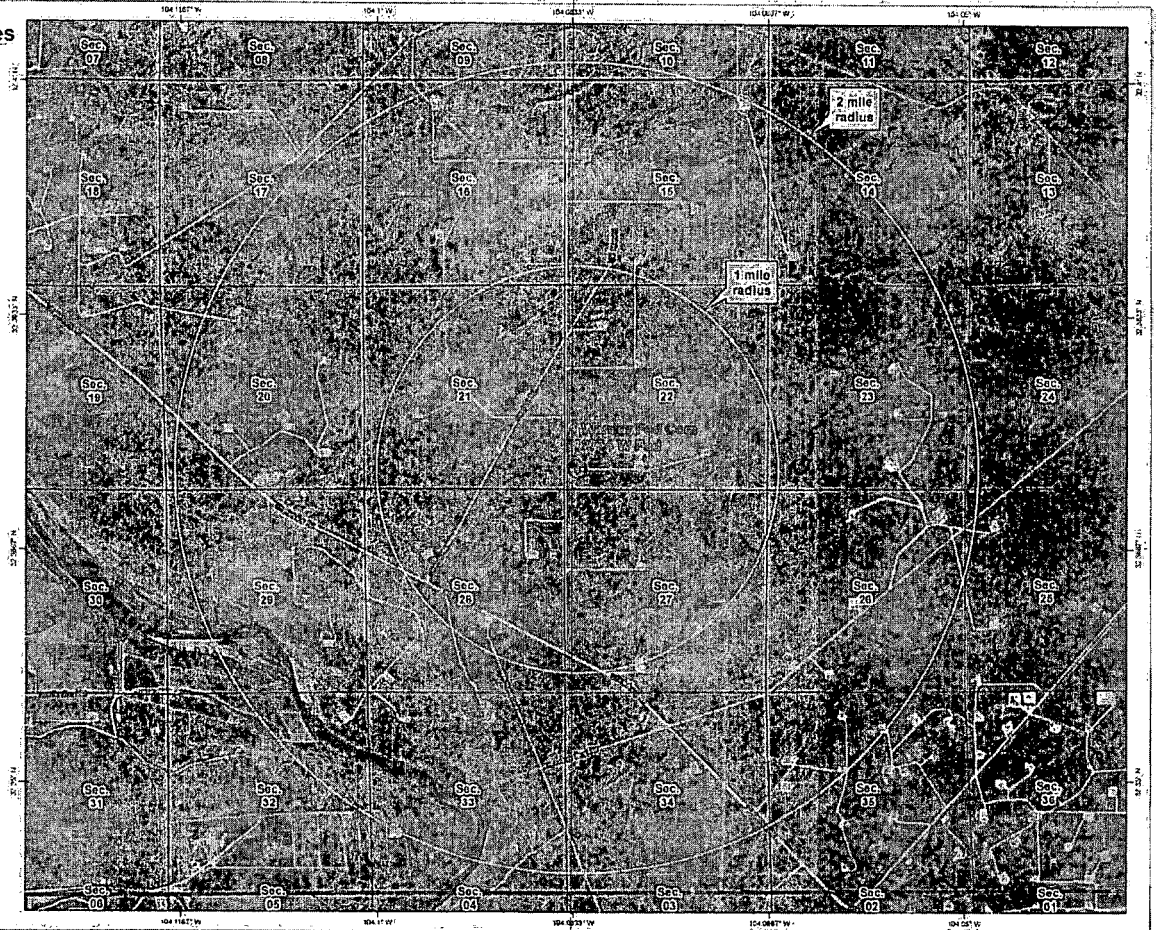
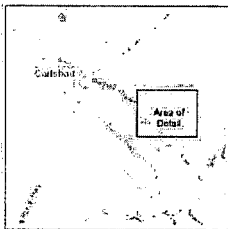
⊙ Pad Location




NAD 1983 New Mexico State Plane East
FIPS 3001 Feet

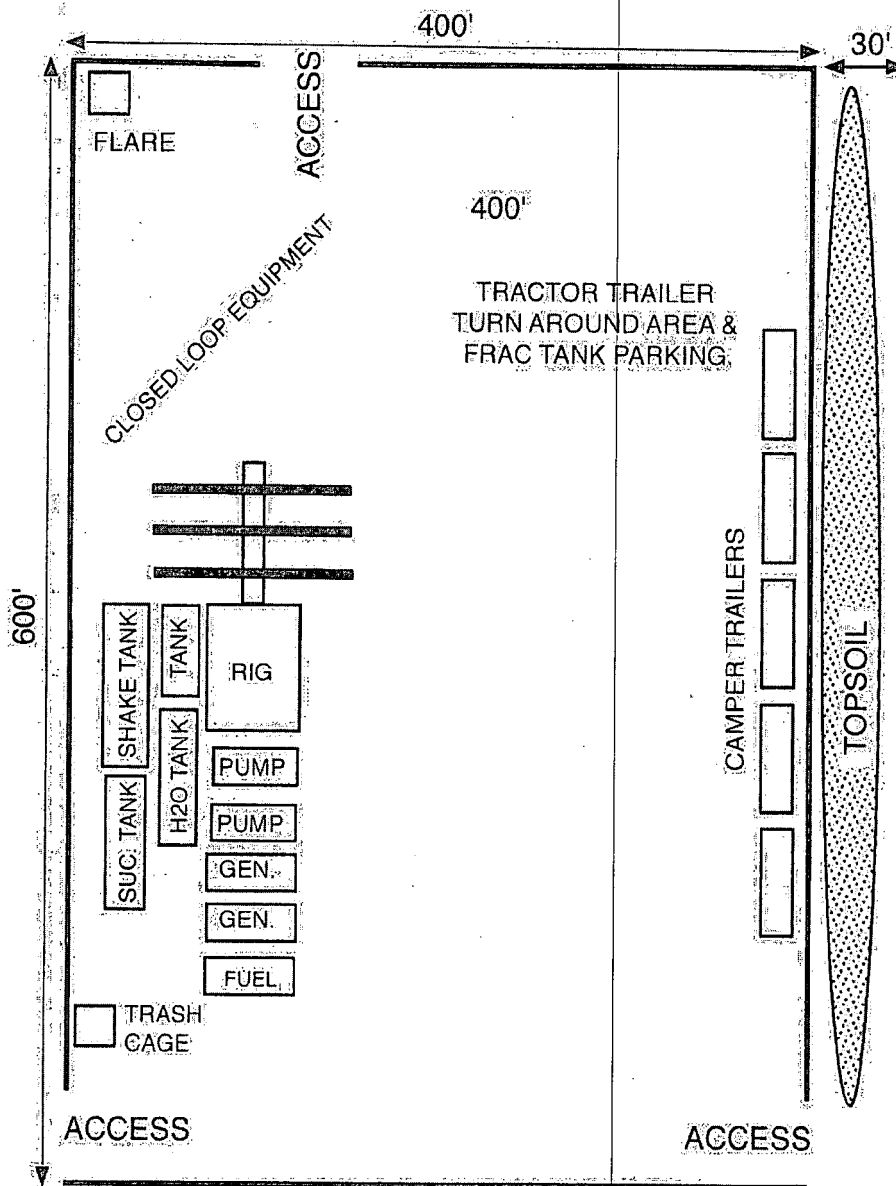
PERRY'S MAP

Prepared by Perry's Map, Inc., January 4, 2019
for Ridge Runner Resources Operating, LLC



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

NORTH 
1" = 100'





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



SECTION DETAILS

MD	Inc	Adj	TVD	+N-S	+E-W	Dist	True	V-Sec	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9727.04	0.00	0.00	9727.04	0.00	0.00	0.00	0.00	0.00	Start Build 10.00
10627.04	80.00	179.50	10300.00	-572.04	4.04	10.00	119.89	572.98	Start 10427.51 hinged at 10627.04 MD
21024.56	90.00	179.50	10300.00	-10950.29	77.40	0.00	0.00	10690.47	TD @ 21024.56 MD

FORMATION TOP DETAILS

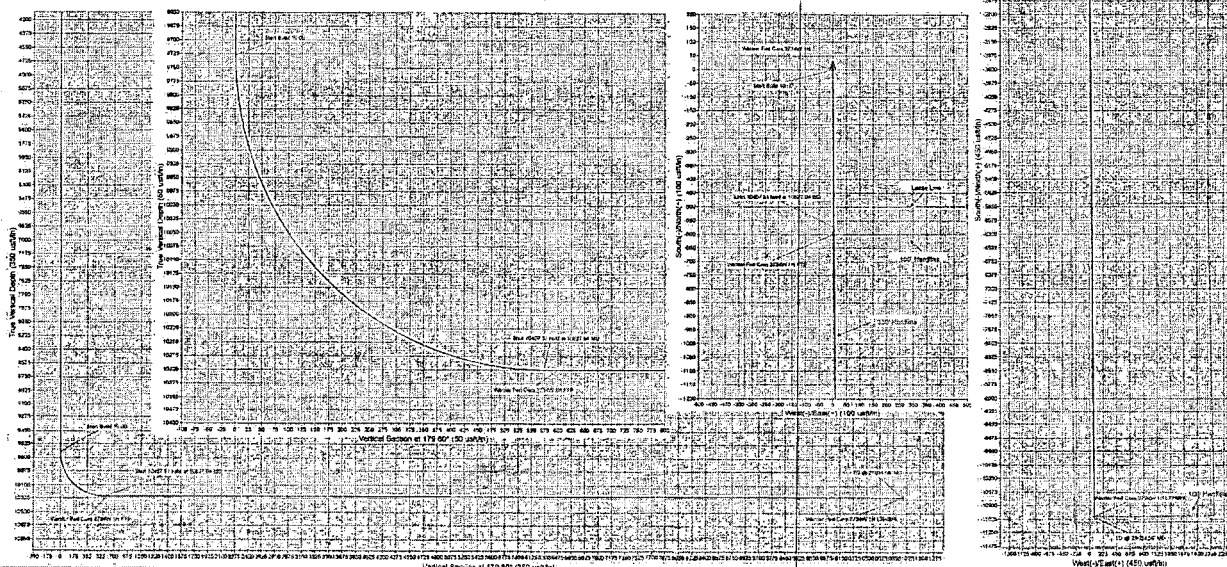
No formation data is available

DESIGN TARGET DETAILS

Name	TVD	+N-S	+E-W	Easting	Northing
Warrior Fed Com 2734W 1H FTH	10300.00	-399.90	0.89	499291.26	618630.30
Warrior Fed Com 2734W 1H LTPH/L	10200.00	-10680.50	77.40	498311.40	618756.80



Adjustments to Grid North
True North: -0.1°
Magnetic North: 7.1°
Magnetic Field
Strength: 47956.3mT
Dip Angle: 65.12°
Date: 21/03/2019
Model: HX01M



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)	MD 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		

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

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

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

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	01/02/19	7.23	60.12	47.966.30000000

Design:	plan1			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0:00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	179.60

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

Plan Sections										
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Dogleg	Build	Turn	TFO	Target
Depth	(°)	(°)	Depth	(usft)	(usft)	Rate	Rate	Rate	(°)	
(usft)			(usft)			(°/100usft)	(°/100usft)	(°/100usft)		
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9,727.04	0.00	0.00	9,727.04	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)	MD 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
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	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
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	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
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	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
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	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
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.00	0.00	0.00
4,700.00	0.00	0.00	4,700.00	0.00	0.00	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
4,900.00	0.00	0.00	4,900.00	0.00	0.00	0.00	0.00	0.00	0.00
5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	0.00	0.00	0.00
5,100.00	0.00	0.00	5,100.00	0.00	0.00	0.00	0.00	0.00	0.00
5,200.00	0.00	0.00	5,200.00	0.00	0.00	0.00	0.00	0.00	0.00
5,300.00	0.00	0.00	5,300.00	0.00	0.00	0.00	0.00	0.00	0.00

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Company:	Ridge Runner Resources	TVD Reference:	GL 3075' + 30' KB @ 3105.00usft (Rig TBD)
Project:	Eddy County, NM (NAD83)	MD 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)
5,400.00	0.00	0.00	5,400.00	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
5,600.00	0.00	0.00	5,600.00	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
5,800.00	0.00	0.00	5,800.00	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
6,000.00	0.00	0.00	6,000.00	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
6,200.00	0.00	0.00	6,200.00	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
6,400.00	0.00	0.00	6,400.00	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
6,600.00	0.00	0.00	6,600.00	0.00	0.00	0.00	0.00	0.00	0.00
6,700.00	0.00	0.00	6,700.00	0.00	0.00	0.00	0.00	0.00	0.00
6,800.00	0.00	0.00	6,800.00	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
7,000.00	0.00	0.00	7,000.00	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
7,200.00	0.00	0.00	7,200.00	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
7,400.00	0.00	0.00	7,400.00	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
7,600.00	0.00	0.00	7,600.00	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
7,800.00	0.00	0.00	7,800.00	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
8,000.00	0.00	0.00	8,000.00	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
8,200.00	0.00	0.00	8,200.00	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
8,400.00	0.00	0.00	8,400.00	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
8,600.00	0.00	0.00	8,600.00	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
8,800.00	0.00	0.00	8,800.00	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
9,000.00	0.00	0.00	9,000.00	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
9,200.00	0.00	0.00	9,200.00	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
9,400.00	0.00	0.00	9,400.00	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
9,600.00	0.00	0.00	9,600.00	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
9,727.04	0.00	0.00	9,727.04	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 10.00									
9,800.00	7.30	179.60	9,799.80	-4.64	0.03	4.64	10.00	10.00	0.00
9,900.00	17.30	179.60	9,897.39	-25.91	0.18	25.91	10.00	10.00	0.00
10,000.00	27.30	179.60	9,989.79	-63.80	0.45	63.80	10.00	10.00	0.00
10,100.00	37.30	179.60	10,074.21	-117.16	0.83	117.16	10.00	10.00	0.00
10,200.00	47.30	179.60	10,148.09	-184.37	1.30	184.37	10.00	10.00	0.00
10,300.00	57.30	179.60	10,209.17	-263.38	1.86	263.39	10.00	10.00	0.00
10,400.00	67.30	179.60	10,255.60	-351.80	2.48	351.81	10.00	10.00	0.00

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Project:	Eddy County, NM (NAD83)	MD 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)
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
Start 10407.51' hold at 10627.04 MD									
10,653.88	90.00	179.60	10,300.00	-599.78	4.23	599.79	0.00	0.00	0.00
Warrior Fed Com 2734W 1H FTP									
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

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)	MD 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)
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

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)	MD 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)
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	- plan hits target center	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
Warrior Fed Com 273	- Point								
Warrior Fed Com 273	- plan misses target center by 3.43usft at 10653.88usft MD (10300.00 TVD, -599.78' N, 4.23' E)	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
Warrior Fed Com 273	- 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 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 st Bone Spring sandstone	7175'	7175'	hydrocarbons
2 nd Bone Spring sandstone	8000'	8000'	hydrocarbons
3 rd Bone Spring carbonate	8325'	8325'	hydrocarbons
3 rd 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
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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:

$$\begin{aligned} 9625' \text{ TVD} \times 1.0 \text{ ppg mud} \times 0.052 &= 5005 \text{ psi} \\ - 9625' \times 0.22 \text{ psi/ft} &= 2118 \text{ psi} \\ \hline 2887 \text{ psi} \end{aligned}$$

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:

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

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

DRILL PLAN PAGE 3

'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 rd 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 th 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 th 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 th joint to 9235'	

5. MUD PROGRAM

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

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 ≈ 6930 psig. Expected bottom hole temperature is $\approx 158^{\circ}$ F.

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

8. OTHER INFORMATION

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

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

TUBING SPOOL

SW-TCM

13-5/8" 5M x 7-1/16" 10M

7" PP SEAL

w/ (2) 1-13/16" 10M SSO

SW-MB SPOOL ASSEMBLY

UPPER MBH

13-5/8" 5M x 13-5/8" 5M

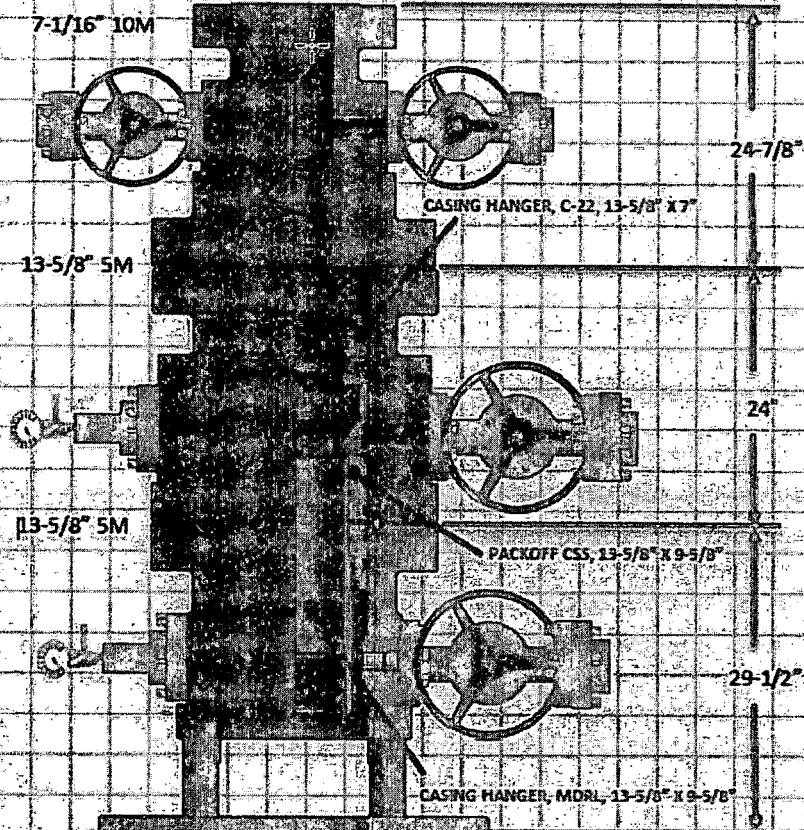
w/ (2) 2-1/16" 5M SSO

CASING HEAD ASSEMBLY

LOWER MBH

13-5/8" 5M x 13-3/8" SOW

w/ (2) 2-1/16" 5M SSO



13-3/8" SOW x 9-5/8" x 7"



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

SUPO 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

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 required

Source transportation land ownership: OTHER

Describe transportation land ownership: Fee Fee Fed - SUPO not required

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
Road proposed disturbance (acres): 0

Powerline proposed disturbance (acres): 0
Pipeline proposed disturbance (acres): 0
Other proposed disturbance (acres): 0

Total proposed disturbance: 0

Well pad interim reclamation (acres):
Road interim reclamation (acres):

Powerline interim reclamation (acres): 0
Pipeline interim reclamation (acres):
Other interim reclamation (acres):
Total interim reclamation:

Well pad long term disturbance (acres):
Road long term disturbance (acres):

Powerline long term disturbance (acres): 0
Pipeline long term disturbance (acres):
Other long term disturbance (acres):

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

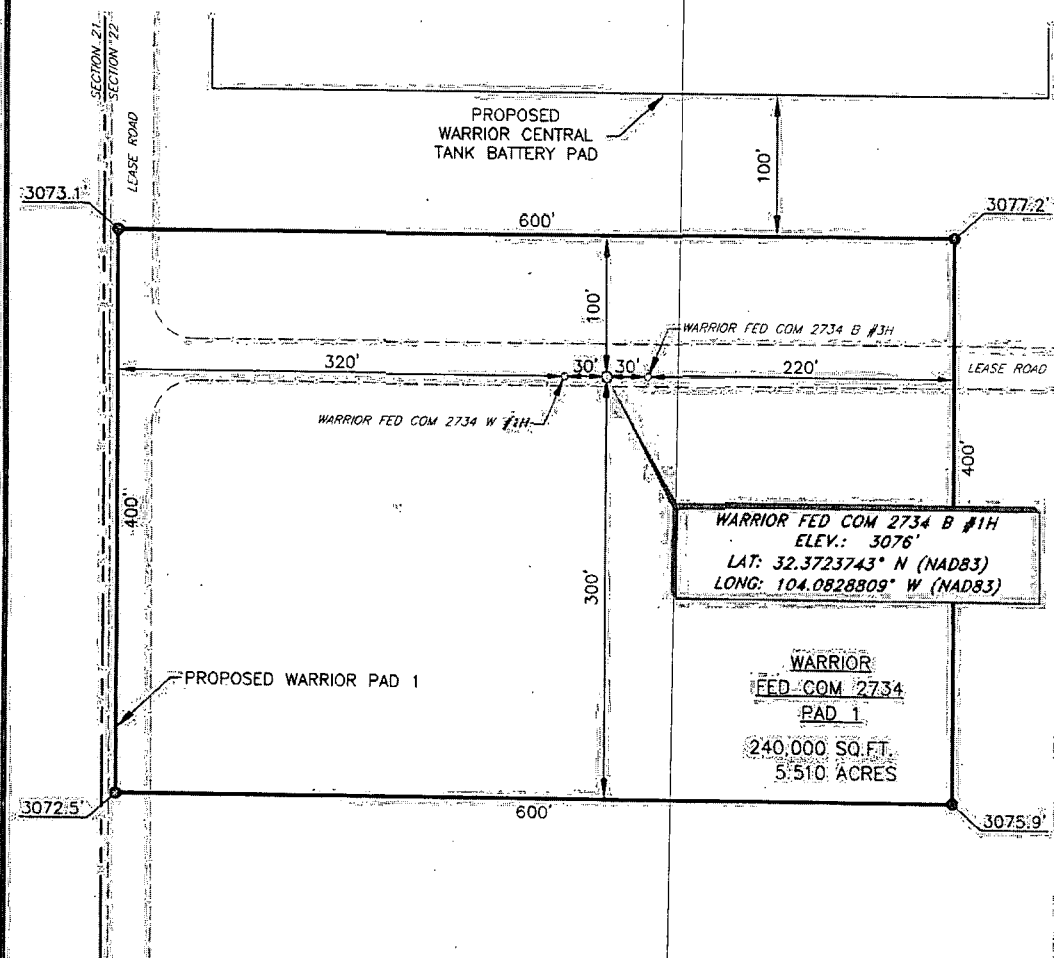
Previous Onsite information:

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.).

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.

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 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 true and correct to the best of my knowledge and belief.

Jeffrey L. Fansler
 Jeffrey L. Fansler NM PS 10034



SCALE: 1" = 100'
 0 50' 100'

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

DATE: 12-11-2018		
NO.	REVISION	DATE
1.	WELL NAME	1.2.19
2	MOVE SL	1.21.19
3		
4		

RRC
 SURVEYING, LLC

701 S. CECIL ST., HOBBS, NM 88240 (575) 964-8200

SCALE: 1" = 100'

SURVEYED BY: AB/RU

DRAWN BY: CAR

APPROVED BY: JLF

JOB NO.: LS18111310

SHEET: B 1H PAD

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

PWD Data Report

01/02/2020

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:

PWD disturbance (acres):

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:

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

Operator Name: RIDGE RUNNER RESOURCES OPERATING LLC

Highlighted data
reflects the most
recent changes.

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: