

RECEIVED

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
DISTRICT-ARTESIA O.C.D.
APPLICATION FOR PERMIT TO DRILL OR REENTER

JAN 06 2020

1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. NMNM019842B
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 2H 326901
3a. Address 1004 N. Big Spring Street, Suite 325 Midland TX 79701		9. API Well No. 30-015-46591
3b. Phone No. (include area code) (432)684-7877		10. Field and Pool, or Exploratory CULEBRA BLUFF / BONE SPRING SOU
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface SESE / 500 FSL / 330 FEL / LAT 32.3723597 / LONG -104.0678939 At proposed prod. zone SESE / 100 FSL / 330 FEL / LAT 32.3422354 / LONG -104.0675967		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
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 330 feet		13. State NM
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		20. BLM/BIA Bond No. in file FED: NMB001616
19. Proposed Depth 8850 feet / 19566 feet		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

RIP 1-15-2020

INSTRUCTIONS

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

ITEM 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 / 330 FEL / TWSP: 22S / RANGE: 28E / SECTION: 22 / LAT: 32.3723597 / LONG: -104.0678939 (TVD: 0 feet, MD: 0 feet)
PPP: SESE / 497 FSL / 330 FEL / TWSP: 22S / RANGE: 28E / SECTION: 22 / LAT: 32.3723515 / LONG: -104.0678939 (TVD: 8325 feet, MD: 8326 feet)
PPP: NENE / 0 FNL / 330 FEL / TWSP: 22S / RANGE: 28E / SECTION: 34 / LAT: 32.356501 / LONG: -104.06777 (TVD: 8850 feet, MD: 14386 feet)
PPP: NESE / 2640 FSL / 330 FEL / TWSP: 22S / RANGE: 28E / SECTION: 34 / LAT: 32.349184 / LONG: -104.067657 (TVD: 8850 feet, MD: 17036 feet)
BHL: SESE / 100 FSL / 330 FEL / TWSP: 22S / RANGE: 28E / SECTION: 34 / LAT: 32.3422354 / LONG: -104.0675967 (TVD: 8850 feet, MD: 19566 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.

Approval Date: 12/23/2019

(Form 3160-3, page 4)

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Ridge Runner Resources Operating LLC
LEASE NO.:	NMNM016331
WELL NAME & NO.:	Warrior Fed Com 2734 B 2H
SURFACE HOLE FOOTAGE:	500'/S & 330'/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 checked="" 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.

Intermediate Casing must be kept at least 1/3 fluid filled to meet BLM Collapse Requirement.

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

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

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

- b. Second stage above DV tool:

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

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

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

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

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

C. PRESSURE CONTROL

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

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

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

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

GENERAL REQUIREMENTS

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

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

☒ Eddy County

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

☒ Lea County

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

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 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: 10400039245

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: 2H

[Show Final Text](#)

Well Type: OIL WELL

Well Work Type: Drill

Section 1 - General

APD ID: 10400039245

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: 2H

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: 2H

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

WARRIOR FED COM 2734

Well Class: HORIZONTAL

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: 330 FT

Reservoir well spacing assigned acres Measurement: 320 Acres

Well plat: Warrior_2734B_2H_Plat_GasCap_Plan_20190218123305.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	330	FEL	22S	28E	22	Aliquot SESE	32.37235 97	- 104.0678 939	EDD Y	NEW MEXI CO	NEW MEXI CO	F	FEE	311 0	0	0	
KOP Leg #1	500	FSL	330	FEL	22S	28E	22	Aliquot SESE	32.37235 97	- 104.0678 939	EDD Y	NEW MEXI CO	NEW MEXI CO	F	FEE	- 516 8	827 8	827 8	
PPP Leg #1-1	264 0	FSL	330	FEL	22S	28E	34	Aliquot NESE	32.34918 4	- 104.0676 57	EDD Y	NEW MEXI CO	NEW MEXI CO	F	NMNM 016102	- 574 0	170 36	885 0	

Operator Name: RIDGE RUNNER RESOURCES OPERATING LLC

Well Name: WARRIOR FED COM 2734 B

Well Number: 2H

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	330	FEL	22S	28E	34	Aliquot NENE	32.35650 1	- 104.0677 7	EDD Y	NEW MEXI CO	NEW MEXI CO	F	NMNM 019842 B	- 574 0	143 86	885 0	
PPP Leg #1-3	497	FSL	330	FEL	22S	28E	22	Aliquot SESE	32.37235 15	- 104.0678 939	EDD Y	NEW MEXI CO	NEW MEXI CO	F	FEE	- 521 5	832 6	832 5	
EXIT Leg #1	100	FSL	330	FEL	22S	28E	34	Aliquot SESE	32.34223 54	- 104.0675 967	EDD Y	NEW MEXI CO	NEW MEXI CO	F	NMNM 016331	- 574 0	195 66	885 0	
BHL Leg #1	100	FSL	330	FEL	22S	28E	34	Aliquot SESE	32.34223 54	- 104.0675 967	EDD Y	NEW MEXI CO	NEW MEXI CO	F	NMNM 016331	- 574 0	195 66	885 0	



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

Drilling Plan Data Report

01/02/2020

APD ID: 10400039245

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: 2H

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
399959	QUATERNARY	3110	0	0	OTHER : Caliche	USEABLE WATER	N
399960	RUSTLER ANHYDRITE	2860	250	250		OTHER : Brackish water	N
399961	TOP SALT	2630	480	480		NONE	N
399962	DELAWARE	410	2700	2700	LIMESTONE	NONE	N
399963	BELL CANYON	385	2725	2725	SANDSTONE	NATURAL GAS, OIL	N
399964	CHERRY CANYON	-720	3830	3830	SANDSTONE	OIL	N
399965	BRUSHY CANYON	-1740	4850	4850	SANDSTONE	NATURAL GAS, OIL	N
399966	BONE SPRING LIME	-3035	6145	6145		NATURAL GAS, OIL	N
399967	BONE SPRING 1ST	-4065	7175	7175	SANDSTONE	NATURAL GAS, OIL	N
399968	BONE SPRING 2ND	-4890	8000	8000	SANDSTONE	NATURAL GAS, OIL	N
399969	BONE SPRING 3RD	-5215	8325	8326	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: 2H

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_2H_Choke_BOP_20190218125132.pdf

BOP Diagram Attachment:

Warrior_2734B_2H_Choke_BOP_20190218125138.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	INTERMEDIATE	12.25	9.625	NEW	API	N	0	8175	0	8175	3110		8175	L-80	47	BUTT	1.35	1.62	DRY	3.45	DRY	3.45
3	PRODUCTION	8.5	7.0	NEW	API	Y	0	8175	0	8175	3110		8175	OTHER	26	OTHER - CDC	1.47	2.34	DRY	4.45	DRY	4.45
4	PRODUCTION	8.5	5.5	NEW	API	Y	8175	19566	8175	8850			11391	P-110	20	OTHER - CDC	2.41	2.16	DRY	58.3	DRY	58.3

Casing Attachments

Operator Name: RIDGE RUNNER RESOURCES OPERATING LLC

Well Name: WARRIOR FED COM 2734 B

Well Number: 2H

Casing Attachments

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

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Warrior_2734B_2H_Casing_Design_Assumptions_20190218125306.pdf

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

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Warrior_2734B_2H_Casing_Design_Assumptions_20190218125424.pdf

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

Inspection Document:

Spec Document:

Tapered String Spec:

Warrior_2734B_2H_7in_Casing_Spec_20190218125536.pdf

Casing Design Assumptions and Worksheet(s):

Warrior_2734B_2H_Casing_Design_Assumptions_20190218125613.pdf

Operator Name: RIDGE RUNNER RESOURCES OPERATING LLC

Well Name: WARRIOR FED COM 2734 B

Well Number: 2H

Casing Attachments

Casing ID: 4 String Type: PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Warrior_2734B_2H_5.5in_Casing_Spec_20190218125726.pdf

Casing Design Assumptions and Worksheet(s):

Warrior_2734B_2H_Casing_Design_Assumptions_20190218125755.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
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
PRODUCTION	Lead		0	8175	0	0	0	0	15	None	None
PRODUCTION	Tail		0	0	0	0	0	0	0	None	None
INTERMEDIATE	Lead	2700	2700	8175	935	2.5	11.3	2337	50	TXI Light	5% salt + 4% SMS + additives
INTERMEDIATE	Tail		2700	8175	200	1.19	15.6	238	50	Class H	Additives
PRODUCTION	Lead		7675	19566	0	0	0	0	15	None	None
PRODUCTION	Tail		7675	19566	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: 2H

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	8175	OTHER : Brine water	10	10							
8175	19566	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: 2H

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_2H_H2S_Plan_20190218141830.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Warrior_2734B_2H_Horizontal_Drill_Plan_20190218130807.pdf

Other proposed operations facets description:

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

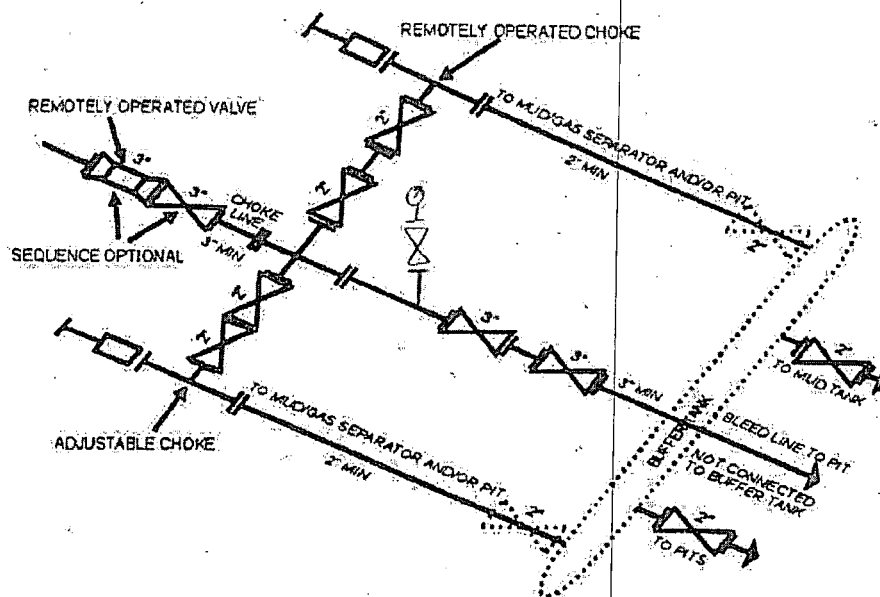
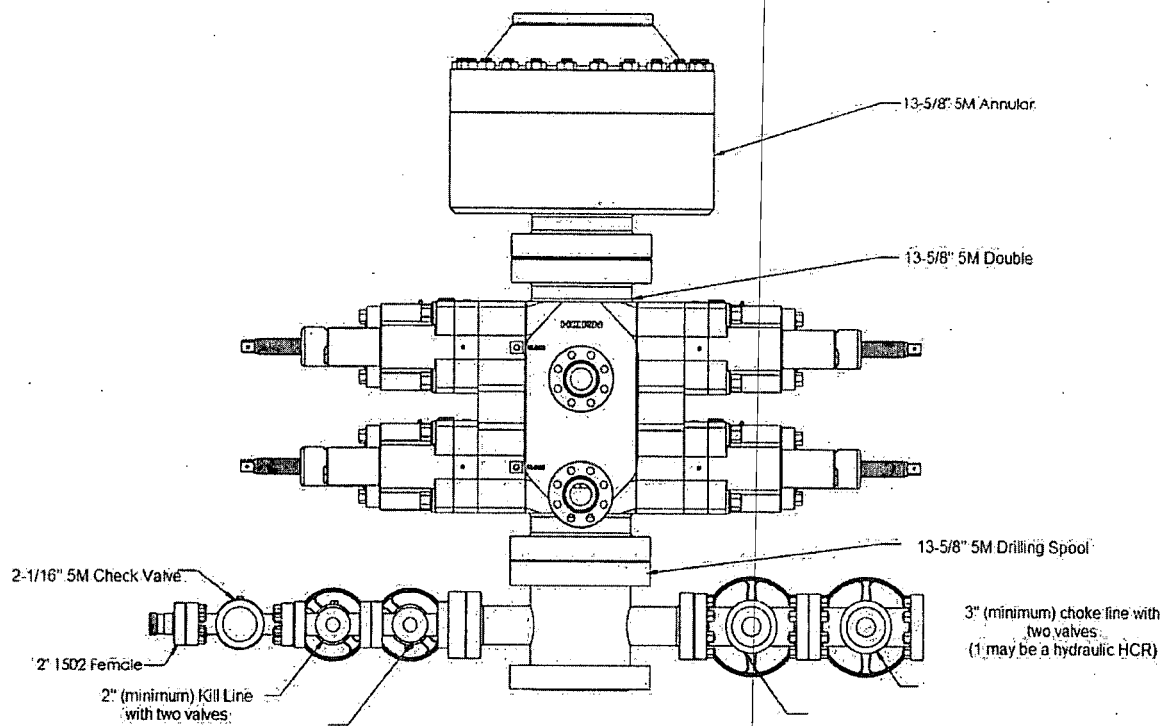
Other proposed operations facets attachment:

Warrior_2734B_2H_Drill_Plan_20190218130817.pdf

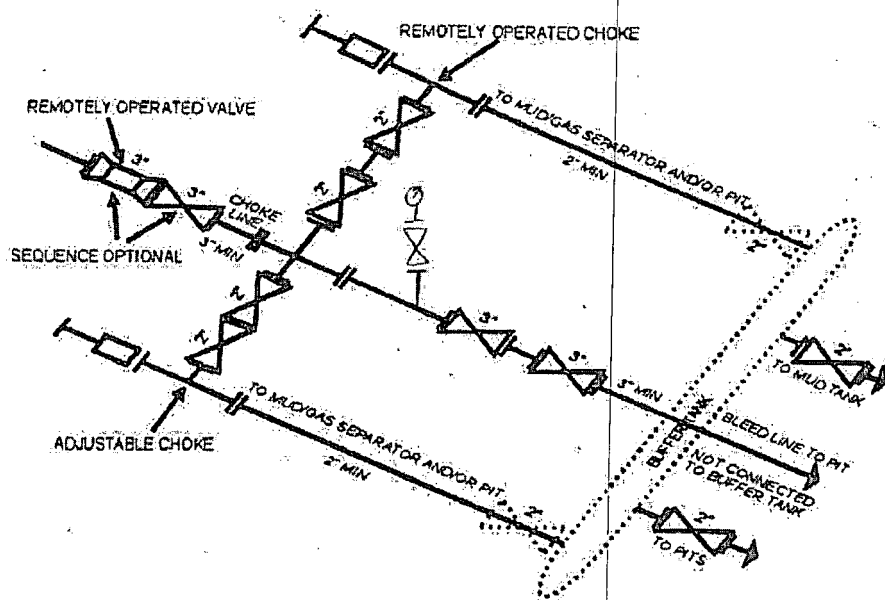
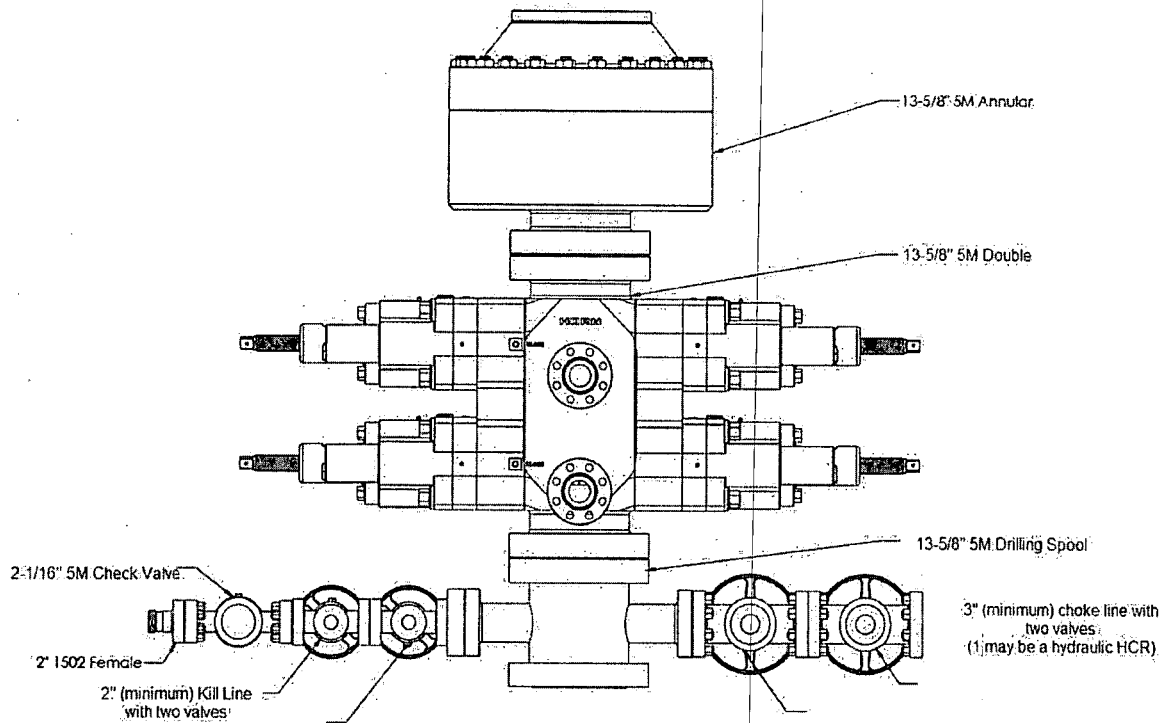
Warrior_2734B_2H_Speedhead_Specs_20190218130825.pdf

Warrior_2734B_2H_Co_Flex_Certs_20190218130912.pdf

Other Variance attachment:



5M CHOKE MANIFOLD 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 5C3 Call II.

Legal Notice

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Spring, Texas 77380

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



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

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.

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Warrior Fed Com 2734 B #2H

Casing Forces Calculations

Kelvin Fisher

1/25/19

1/25/19															Collapse				Burst				Tension																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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Warrior Fed Com 2734 B 92H

Kelvin Fisher

1/25/19

Coupling Forces Calculations

Kelvin Fisher										1/25/19										Lumpsum Prices & Calculations										Collapse										Burst										Tension																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	

Warrior Fed Com 2734 8 #2H

Cable Forces Calculations

Kevin Fisher

1/25/19

Acton Fiber	Collapse										Burst					Tension																
	17/25/19										Collapse					Burst					Tension											
	Top	Bot (MD)	Bot (TVD)	Casing	WT	Wt for Cals	Grade Conn	100% MW	Collapse Force	Collapse Rating	100% MW	Burst Force	Burst Rating	Burst SF	ELM BOP Pressure	100% MW	Bow Factor	Interval Hook Load	Cum Hook Load in Air	Cum Hook Load in Air	Mod Strength	Joint SF	Joint SF	Joint SF	Joint SF	Pipe Body SF (min)	Pipe Body SF (min)	Pipe Body SF (min)	Pipe Body SF (min)			
Surface	0	450	450	13 3/8	51.5	51.5	255 ST&C	9.0	710.5	1.135	5.37	9.0	210.6	1.730	11.94	2.45	0.862	24,515	21,352	514,000	20.96	24.30	853,000	34.78	40.33							
Int 1	0	8,175	8,175	9 5/8	47	47.0	180NC BT&C	10.0	4251.0	5.740	1.330	10.0	4251.0	6.870	1.61	2.05	0.847	394,225	325,511	1,122,000	12.92	1.43	1,046,000	2.63	3.14							
Prod. Prod.	0	8,175	8,175	7	26	26.0	P110 USS-CDC	10.0	4251.0	6.230	1.47	10.0	4251.0	9.960	2.31		0.847	212,550	226,060	181,507	853,000	13.77	4.45	830,000	1.90	4.33						
	8,175	19,566	8,650	5 1/2	20	20.0	P110 USS-CDC	10.0	4862.0	11,100	2.41	10.0	4862.0	9.960	2.31		0.847	13,000	13,500	13,437	667,000	10.41	58.31	641,000	47.48	56.05						

Warrior Feed Com 2734 D #2H

Casing Forces Calculations

Kevin Fisher

1/25/19

	Top	Bottom (MD)	Bottom (FWD)	Casing	MT	Wt for Casing	Grade	Core	Collapse			Burst			BLM BOP
									Force	Rating	Coll St	Force	Rating	Coll St	Pressure
Surface	0	8.175	8.175	13 5/8	54.5	54.5	J55 ST8C		210.6	1.130	5.37	210.6	1.730	12.56	2.43
Int 1	0	8.175	8.175	9 5/8	47	47.0	LSWMC BT8C		4251.0	5.740	1.350	4251.0	6.870	1.63	1.55
Prod	0	8.175	8.175	7	25	25.0	P110 USS-CDC		4251.0	6.230	1.47	4251.0	8.960	2.34	
Prod	8.175	19.566	8.850	5 1/2	20	20.0	P110 USS-CDC		4662.0	11.100	2.41	4662.0	9.960	2.16	

Interval	Hook Load	Cum Hook Load	Lead In	Cum Hook Load	Joint SF	Joint SF	Joint SF	Pipe Body	Pipe Body	Pipe Body	Pipe Body
MW, Duty Factor	Hook Load	Cum Hook Load	Lead In	Cum Hook Load	Joint SF	Joint SF	Joint SF	Pipe Body	Pipe Body	Pipe Body	Pipe Body
10.0	0.847	24,525	21,152	514,000	20.86	20.86	20.86	853,000	34.78	20.13	
10.0	0.847	194,225	325,511	1,122,000	2.92	2.92	2.92	1,086,000	2.83	3.34	
10.0	0.847	212,550	226,550	181,507	853,000	13.77	4.45	830,000	3.90	4.33	
10.0	0.847	13,500	13,500	11,437	667,000	48.41	58.32	641,000	147.48	56.05	



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

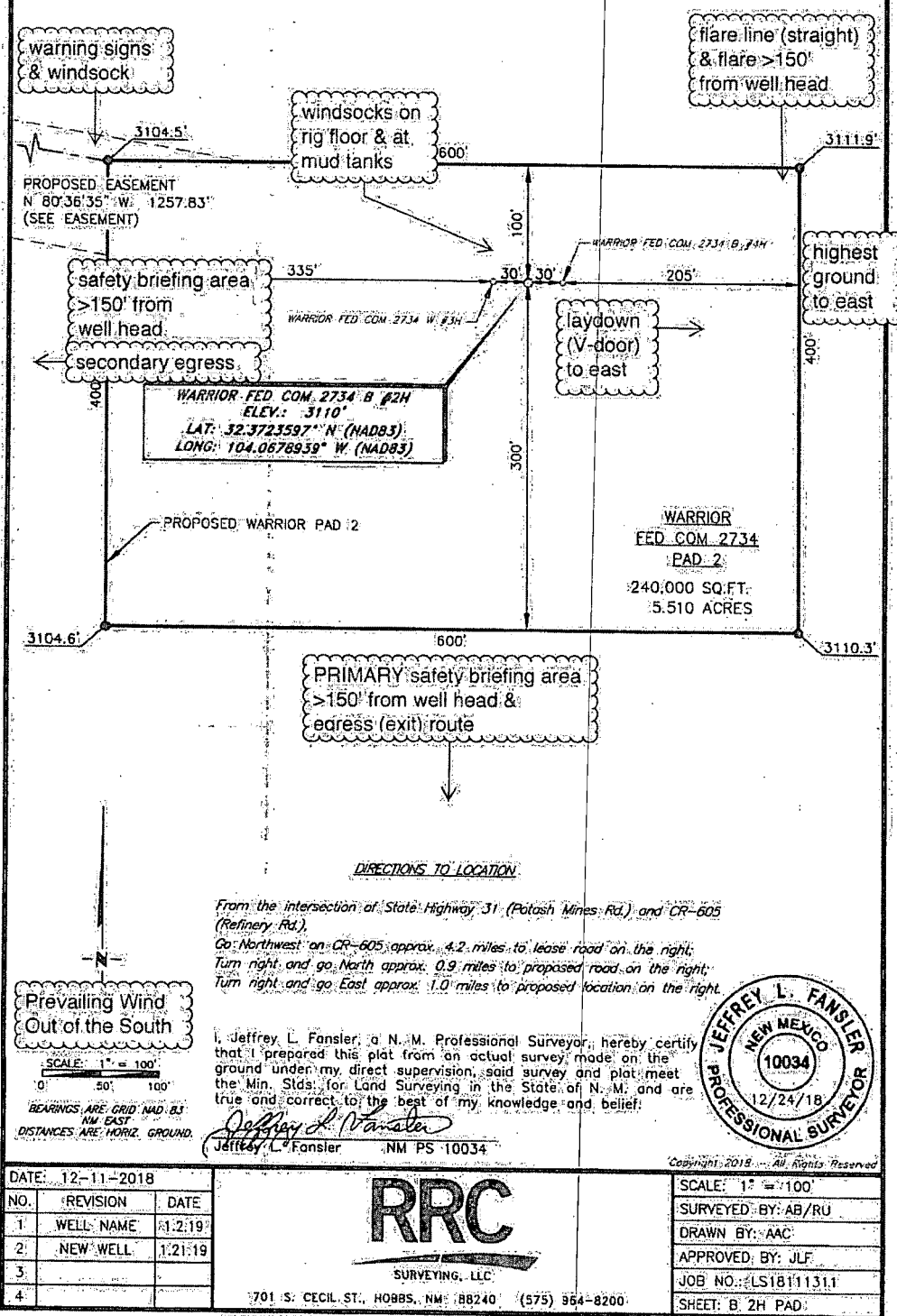
RIDGE RUNNER RESOURCES OPERATING, LLC.

WARRIOR FED COM 2734 B #2H

(500' FSL & 330' FEL)

SECTION 22, T22S, R28E

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



NO.	REVISION	DATE
1	WELL NAME	1/2/19
2	NEW WELL	1/2/19
3		
4		

RRC

SURVEYING, LLC

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

SCALE: 1" = 100'
SURVEYED BY: AB/RU
DRAWN BY: AAC
APPROVED BY: JLF
JOB NO.: LS1811311
SHEET: B 2H 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

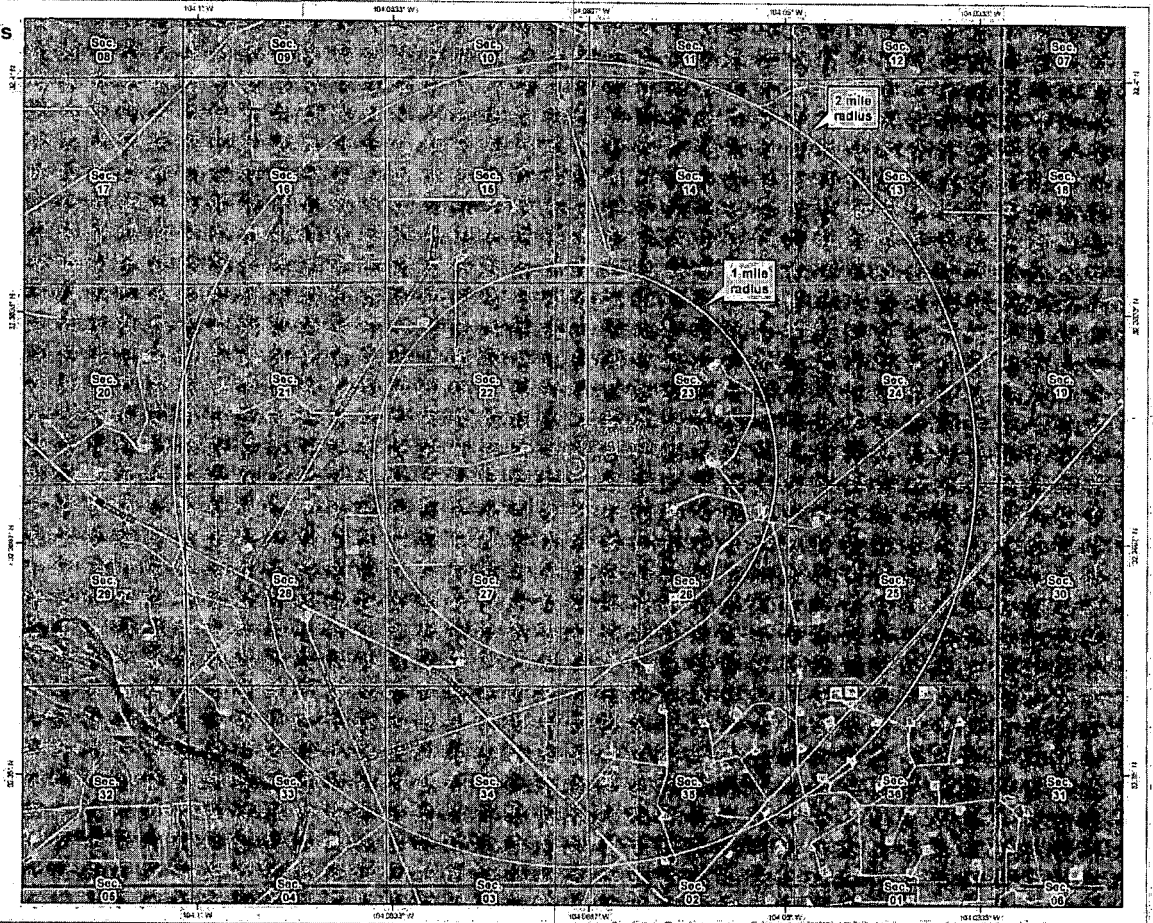
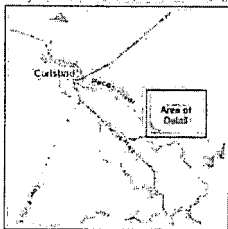
0 0.4 0.8
Miles



NAD 1983 New Mexico State Plane East
FIPS 5001 Feet

PERINIS WEST

Prepared by Perinis West, Inc., February 16, 2019
for Ridge Runner Resources Operating, LLC





Project: Eddy County, NM (NAD83)
Site: Warrior Fed Com
Well: Warrior Fed Com 2734B 2H
Depth Reference: GL 3110' + 30' KB @ 3140.00usft (Rig TBD)
SHL Northing: 499297.70
SHL Easting: 623286.40
Rig: Rig TBD
Plan: plan1



SECTION DETAILS

MD	Inc	Azi	TVD	+N-S	+E-W	Diag	IFace	V-Sect	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
8277.04	0.00	0.00	8277.04	0.00	0.00	0.00	0.00	0.00	Start Rule 10.00
9177.04	90.00	182.75	8850.00	-572.30	-27.45	10.00	182.75	571.87	Start DLS 7.00 TFO 50.00
9211.77	90.00	180.06	8850.00	-706.87	-30.79	2.00	50.00	706.60	Start 5075.23 hole at 9211.77 MD
14387.00	90.00	180.06	8850.00	-5782.20	-35.70	0.00	0.00	5781.47	Start DLS 5.00 TFO 40.00
14416.13	90.00	178.27	8850.00	-5871.32	-34.40	2.00	-40.00	5870.88	Start 5085.70 hole at 14416.13 MD
19563.82	90.00	178.27	8850.00	-10058.70	-119.00	0.00	0.00	10950.35	TD @ 19563.82 MD

FORMATION TOP DETAILS

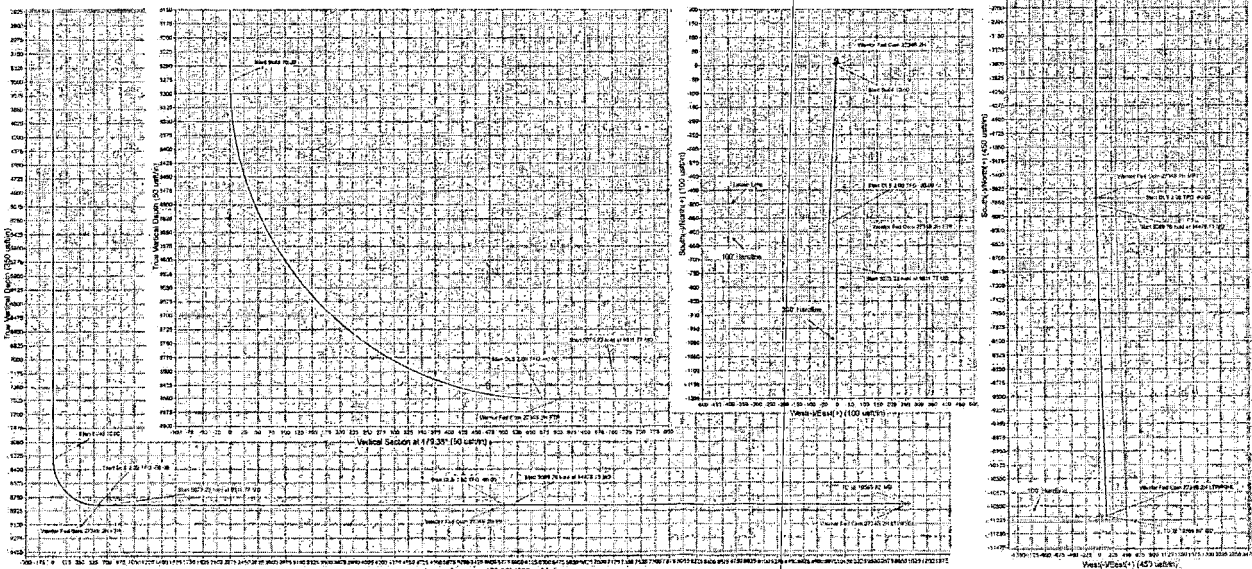
No formation data is available

DESIGN TARGET DETAILS

Name	TVD	+N-S	+E-W	Easting	Northing
Warrior Fed Com 2734B 2H TFO	8850.00	-400.12	-0.11	498894.58	623286.25
Warrior Fed Com 2734B 2H LTPPBHL	8850.00	-10662.70	119.00	498333.00	623405.40
Warrior Fed Com 2734B 2H MP1	8850.00	-5782.20	-35.70	493515.50	623286.70



Adjusts to Grid North
True North: -0.14°
Magnetic North: 7.87°
Magnetic Field
Strength: 47965.1nT
Dip Angle: 60.12°
Date: 01/23/2019
Model: HDGM





Planning Report



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 2H
Wellbore: Wellbore #1
Design: plan1

Local Co-ordinate Reference: Well Warrior Fed Com 2734B 2H
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

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

System Datum: Mean Sea Level

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

Well: Warrior Fed Com 2734B 2H
Well Position: +N/-S 6.10 usft Northing: 499,297.70 usft Latitude: 32° 22' 20.495" N
+E/-W 4,656.90 usft Easting: 623,286.40 usft Longitude: 104° 4' 4.418" W
Position Uncertainty: 0.00 usft Wellhead Elevation: Ground Level: 3,110.00 usft

Wellbore: Wellbore #1
Magnetics: Model Name Sample Date Declination Dip Angle Field Strength
 HDGM 01/23/19 7.22 60.12 47,965.10000000

Design: plan1
Audit Notes:
Version: Phase: PROTOTYPE Tie On Depth: 0.00
Vertical Section: Depth From (TVD) +N/-S +E/-W Direction
 (usft) (usft) (usft) (°)
 0.00 0.00 0.00 179.38

Plan Survey Tool Program: Date: 01/23/19
Depth From: (usft) **Depth To:** (usft) **Survey (Wellbore):** **Tool Name:** **Remarks:**
 1 0.00 19,565.82 plan1 (Wellbore #1) MWD
 MWD - Standard

Plan Sections

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
8,277.04	0.00	0.00	8,277.04	0.00	0.00	0.00	0.00	0.00	0.00	
9,177.04	90.00	182.75	8,850.00	-572.30	-27.49	10.00	10.00	0.00	182.75	
9,311.77	90.00	180.06	8,850.00	-706.97	-30.79	2.00	0.00	-2.00	-90.00	
14,387.00	90.00	180.06	8,850.00	-5,782.20	-35.70	0.00	0.00	0.00	0.00	
14,476.13	90.00	178.27	8,850.00	-5,871.32	-34.40	2.00	0.00	-2.00	-90.00	
19,565.82	90.00	178.27	8,850.00	-10,958.70	119.00	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 2H
Wellbore: Wellbore #1
Design: plan1

Local Co-ordinate Reference: Well Warrior, Fed Com 2734B 2H
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)
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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 Design: plan1

Local Co-ordinate Reference: Well Warrior Fed Com 2734B 2H
 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
5,700.00	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
8,277.04	0.00	0.00	8,277.04	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 10.00									
8,300.00	2.30	182.75	8,299.99	-0.46	-0.02	0.46	10.00	10.00	0.00
8,400.00	12.30	182.75	8,399.06	-13.13	-0.63	-13.12	10.00	10.00	0.00
8,500.00	22.30	182.75	8,494.42	-42.79	-2.06	42.76	10.00	10.00	0.00
8,600.00	32.30	182.75	8,583.17	-88.53	-4.25	88.48	10.00	10.00	0.00
8,700.00	42.30	182.75	8,662.62	-148.98	-7.16	148.90	10.00	10.00	0.00
8,800.00	52.30	182.75	8,730.35	-222.29	-10.68	222.16	10.00	10.00	0.00
8,900.00	62.30	182.75	8,784.31	-306.23	-14.71	306.06	10.00	10.00	0.00
9,000.00	72.30	182.75	8,822.86	-398.26	-19.13	398.03	10.00	10.00	0.00
9,100.00	82.30	182.75	8,844.83	-495.58	-23.80	495.29	10.00	10.00	0.00
9,177.04	90.00	182.75	8,850.00	-572.30	-27.49	571.97	10.00	10.00	0.00
Start DLS 2.00 TFO -90.00									
9,200.00	90.00	182.29	8,850.00	-595.24	-28.50	594.89	2.00	0.00	-2.00
9,207.24	90.00	182.15	8,850.00	-602.47	-28.78	602.12	2.00	0.00	-2.00
Warrior Fed Com 2734B 2H FTP									
9,300.00	90.00	180.29	8,850.00	-695.21	-30.75	694.83	2.00	0.00	-2.00
9,311.77	90.00	180.06	8,850.00	-706.97	-30.79	706.60	2.00	0.00	-2.00
Start 5075.23 hold at 9311.77 MD									
9,400.00	90.00	180.06	8,850.00	-795.21	-30.87	794.82	0.00	0.00	0.00
9,500.00	90.00	180.06	8,850.00	-895.21	-30.97	894.82	0.00	0.00	0.00
9,600.00	90.00	180.06	8,850.00	-995.21	-31.07	994.81	0.00	0.00	0.00
9,700.00	90.00	180.06	8,850.00	-1,095.21	-31.16	1,094.80	0.00	0.00	0.00
9,800.00	90.00	180.06	8,850.00	-1,195.20	-31.26	1,194.80	0.00	0.00	0.00

Database: EDM 5000.14 Single User Db
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Site: Warrior Fed Com
Well: Warrior Fed Com 2734B 2H
Wellbore: Wellbore #1
Design: plan1

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

Well Warrior Fed Com 2734B 2H
 GL 31.10' + 30' KB @ 3140.00usft (Rig TBD)
 GL 31.10' + 30' KB @ 3140.00usft (Rig TBD)
 Grid:
 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)
9,900.00	90.00	180.06	8,850.00	-1,295.20	-31.36	1,294.79	0.00	0.00	0.00
10,000.00	90.00	180.06	8,850.00	-1,395.20	-31.45	1,394.78	0.00	0.00	0.00
10,100.00	90.00	180.06	8,850.00	-1,495.20	-31.55	1,494.77	0.00	0.00	0.00
10,200.00	90.00	180.06	8,850.00	-1,595.20	-31.65	1,594.77	0.00	0.00	0.00
10,300.00	90.00	180.06	8,850.00	-1,695.20	-31.74	1,694.76	0.00	0.00	0.00
10,400.00	90.00	180.06	8,850.00	-1,795.20	-31.84	1,794.75	0.00	0.00	0.00
10,500.00	90.00	180.06	8,850.00	-1,895.20	-31.94	1,894.75	0.00	0.00	0.00
10,600.00	90.00	180.06	8,850.00	-1,995.20	-32.03	1,994.74	0.00	0.00	0.00
10,700.00	90.00	180.06	8,850.00	-2,095.20	-32.13	2,094.73	0.00	0.00	0.00
10,800.00	90.00	180.06	8,850.00	-2,195.20	-32.23	2,194.73	0.00	0.00	0.00
10,900.00	90.00	180.06	8,850.00	-2,295.20	-32.32	2,294.72	0.00	0.00	0.00
11,000.00	90.00	180.06	8,850.00	-2,395.20	-32.42	2,394.71	0.00	0.00	0.00
11,100.00	90.00	180.06	8,850.00	-2,495.20	-32.52	2,494.70	0.00	0.00	0.00
11,200.00	90.00	180.06	8,850.00	-2,595.20	-32.62	2,594.70	0.00	0.00	0.00
11,300.00	90.00	180.06	8,850.00	-2,695.20	-32.71	2,694.69	0.00	0.00	0.00
11,400.00	90.00	180.06	8,850.00	-2,795.20	-32.81	2,794.68	0.00	0.00	0.00
11,500.00	90.00	180.06	8,850.00	-2,895.20	-32.91	2,894.68	0.00	0.00	0.00
11,600.00	90.00	180.06	8,850.00	-2,995.20	-33.00	2,994.67	0.00	0.00	0.00
11,700.00	90.00	180.06	8,850.00	-3,095.20	-33.10	3,094.66	0.00	0.00	0.00
11,800.00	90.00	180.06	8,850.00	-3,195.20	-33.20	3,194.66	0.00	0.00	0.00
11,900.00	90.00	180.06	8,850.00	-3,295.20	-33.29	3,294.65	0.00	0.00	0.00
12,000.00	90.00	180.06	8,850.00	-3,395.20	-33.39	3,394.64	0.00	0.00	0.00
12,100.00	90.00	180.06	8,850.00	-3,495.20	-33.49	3,494.63	0.00	0.00	0.00
12,200.00	90.00	180.06	8,850.00	-3,595.20	-33.58	3,594.63	0.00	0.00	0.00
12,300.00	90.00	180.06	8,850.00	-3,695.20	-33.68	3,694.62	0.00	0.00	0.00
12,400.00	90.00	180.06	8,850.00	-3,795.20	-33.78	3,794.61	0.00	0.00	0.00
12,500.00	90.00	180.06	8,850.00	-3,895.20	-33.87	3,894.61	0.00	0.00	0.00
12,600.00	90.00	180.06	8,850.00	-3,995.20	-33.97	3,994.60	0.00	0.00	0.00
12,700.00	90.00	180.06	8,850.00	-4,095.20	-34.07	4,094.59	0.00	0.00	0.00
12,800.00	90.00	180.06	8,850.00	-4,195.20	-34.16	4,194.59	0.00	0.00	0.00
12,900.00	90.00	180.06	8,850.00	-4,295.20	-34.26	4,294.58	0.00	0.00	0.00
13,000.00	90.00	180.06	8,850.00	-4,395.20	-34.36	4,394.57	0.00	0.00	0.00
13,100.00	90.00	180.06	8,850.00	-4,495.20	-34.45	4,494.56	0.00	0.00	0.00
13,200.00	90.00	180.06	8,850.00	-4,595.20	-34.55	4,594.56	0.00	0.00	0.00
13,300.00	90.00	180.06	8,850.00	-4,695.20	-34.65	4,694.55	0.00	0.00	0.00
13,400.00	90.00	180.06	8,850.00	-4,795.20	-34.74	4,794.54	0.00	0.00	0.00
13,500.00	90.00	180.06	8,850.00	-4,895.20	-34.84	4,894.54	0.00	0.00	0.00
13,600.00	90.00	180.06	8,850.00	-4,995.20	-34.94	4,994.53	0.00	0.00	0.00
13,700.00	90.00	180.06	8,850.00	-5,095.20	-35.03	5,094.52	0.00	0.00	0.00
13,800.00	90.00	180.06	8,850.00	-5,195.20	-35.13	5,194.52	0.00	0.00	0.00
13,900.00	90.00	180.06	8,850.00	-5,295.20	-35.23	5,294.51	0.00	0.00	0.00
14,000.00	90.00	180.06	8,850.00	-5,395.20	-35.33	5,394.50	0.00	0.00	0.00
14,100.00	90.00	180.06	8,850.00	-5,495.20	-35.42	5,494.49	0.00	0.00	0.00
14,200.00	90.00	180.06	8,850.00	-5,595.20	-35.52	5,594.49	0.00	0.00	0.00
14,300.00	90.00	180.06	8,850.00	-5,695.20	-35.62	5,694.48	0.00	0.00	0.00
14,387.00	90.00	180.06	8,850.00	-5,782.20	-35.70	5,781.47	0.00	0.00	0.00
Start DLS 2.00 TFO -90.00 -Warrior Fed Com 2734B 2H MP1									
14,400.00	90.00	179.80	8,850.00	-5,795.20	-35.68	5,794.47	2.00	0.00	-2.00
14,476.13	90.00	178.27	8,850.00	-5,871.32	-34.40	5,870.60	2.00	0.00	-2.00
Start 5089.70 hold at 14476.13 MD									
14,500.00	90.00	178.27	8,850.00	-5,895.18	-33.68	5,894.47	0.00	0.00	0.00
14,600.00	90.00	178.27	8,850.00	-5,995.13	-30.67	5,994.45	0.00	0.00	0.00
14,700.00	90.00	178.27	8,850.00	-6,095.09	-27.65	6,094.43	0.00	0.00	0.00
14,800.00	90.00	178.27	8,850.00	-6,195.04	-24.64	6,194.41	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 2H
 Wellbore: Wellbore #1
 Design: plan1

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

Well: Warrior Fed. Com 2734B 2H
 GL 3110' + 30' KB @ 3140.00usft (Rig TBD)
 GL 3110' + 30' KB @ 3140.00usft (Rig TBD)
 Grid:
 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)
14,900.00	90.00	178.27	8,850.00	-6,295.00	-21.62	6,294.39	0.00	0.00	0.00
15,000.00	90.00	178.27	8,850.00	-6,394.95	-18.61	6,394.37	0.00	0.00	0.00
15,100.00	90.00	178.27	8,850.00	-6,494.91	-15.60	6,494.35	0.00	0.00	0.00
15,200.00	90.00	178.27	8,850.00	-6,594.86	-12.58	6,594.34	0.00	0.00	0.00
15,300.00	90.00	178.27	8,850.00	-6,694.82	-9.57	6,694.32	0.00	0.00	0.00
15,400.00	90.00	178.27	8,850.00	-6,794.77	-6.55	6,794.30	0.00	0.00	0.00
15,500.00	90.00	178.27	8,850.00	-6,894.72	-3.54	6,894.28	0.00	0.00	0.00
15,600.00	90.00	178.27	8,850.00	-6,994.68	-0.53	6,994.26	0.00	0.00	0.00
15,700.00	90.00	178.27	8,850.00	-7,094.63	2.49	7,094.24	0.00	0.00	0.00
15,800.00	90.00	178.27	8,850.00	-7,194.59	5.50	7,194.22	0.00	0.00	0.00
15,900.00	90.00	178.27	8,850.00	-7,294.54	8.51	7,294.21	0.00	0.00	0.00
16,000.00	90.00	178.27	8,850.00	-7,394.50	11.53	7,394.19	0.00	0.00	0.00
16,100.00	90.00	178.27	8,850.00	-7,494.45	14.54	7,494.17	0.00	0.00	0.00
16,200.00	90.00	178.27	8,850.00	-7,594.41	17.56	7,594.15	0.00	0.00	0.00
16,300.00	90.00	178.27	8,850.00	-7,694.36	20.57	7,694.13	0.00	0.00	0.00
16,400.00	90.00	178.27	8,850.00	-7,794.32	23.58	7,794.11	0.00	0.00	0.00
16,500.00	90.00	178.27	8,850.00	-7,894.27	26.60	7,894.09	0.00	0.00	0.00
16,600.00	90.00	178.27	8,850.00	-7,994.23	29.61	7,994.08	0.00	0.00	0.00
16,700.00	90.00	178.27	8,850.00	-8,094.18	32.63	8,094.06	0.00	0.00	0.00
16,800.00	90.00	178.27	8,850.00	-8,194.13	35.64	8,194.04	0.00	0.00	0.00
16,900.00	90.00	178.27	8,850.00	-8,294.09	38.65	8,294.02	0.00	0.00	0.00
17,000.00	90.00	178.27	8,850.00	-8,394.04	41.67	8,394.00	0.00	0.00	0.00
17,100.00	90.00	178.27	8,850.00	-8,494.00	44.68	8,493.98	0.00	0.00	0.00
17,200.00	90.00	178.27	8,850.00	-8,593.95	47.70	8,593.96	0.00	0.00	0.00
17,300.00	90.00	178.27	8,850.00	-8,693.91	50.71	8,693.95	0.00	0.00	0.00
17,400.00	90.00	178.27	8,850.00	-8,793.86	53.72	8,793.93	0.00	0.00	0.00
17,500.00	90.00	178.27	8,850.00	-8,893.82	56.74	8,893.91	0.00	0.00	0.00
17,600.00	90.00	178.27	8,850.00	-8,993.77	59.75	8,993.89	0.00	0.00	0.00
17,700.00	90.00	178.27	8,850.00	-9,093.73	62.77	9,093.87	0.00	0.00	0.00
17,800.00	90.00	178.27	8,850.00	-9,193.68	65.78	9,193.85	0.00	0.00	0.00
17,900.00	90.00	178.27	8,850.00	-9,293.63	68.79	9,293.83	0.00	0.00	0.00
18,000.00	90.00	178.27	8,850.00	-9,393.59	71.81	9,393.81	0.00	0.00	0.00
18,100.00	90.00	178.27	8,850.00	-9,493.54	74.82	9,493.80	0.00	0.00	0.00
18,200.00	90.00	178.27	8,850.00	-9,593.50	77.84	9,593.78	0.00	0.00	0.00
18,300.00	90.00	178.27	8,850.00	-9,693.45	80.85	9,693.76	0.00	0.00	0.00
18,400.00	90.00	178.27	8,850.00	-9,793.41	83.86	9,793.74	0.00	0.00	0.00
18,500.00	90.00	178.27	8,850.00	-9,893.36	86.88	9,893.72	0.00	0.00	0.00
18,600.00	90.00	178.27	8,850.00	-9,993.32	89.89	9,993.70	0.00	0.00	0.00
18,700.00	90.00	178.27	8,850.00	-10,093.27	92.90	10,093.68	0.00	0.00	0.00
18,800.00	90.00	178.27	8,850.00	-10,193.23	95.92	10,193.67	0.00	0.00	0.00
18,900.00	90.00	178.27	8,850.00	-10,293.18	98.93	10,293.65	0.00	0.00	0.00
19,000.00	90.00	178.27	8,850.00	-10,393.13	101.95	10,393.63	0.00	0.00	0.00
19,100.00	90.00	178.27	8,850.00	-10,493.09	104.96	10,493.61	0.00	0.00	0.00
19,200.00	90.00	178.27	8,850.00	-10,593.04	107.97	10,593.59	0.00	0.00	0.00
19,300.00	90.00	178.27	8,850.00	-10,693.00	110.99	10,693.57	0.00	0.00	0.00
19,400.00	90.00	178.27	8,850.00	-10,792.95	114.00	10,793.55	0.00	0.00	0.00
19,500.00	90.00	178.27	8,850.00	-10,892.91	117.02	10,893.54	0.00	0.00	0.00
19,565.82	90.00	178.27	8,850.00	-10,958.70	119.00	10,959.35	0.00	0.00	0.00

TD @ 19565.82' MD - Warrior Fed Com 2734B 2H LTP/PBHL

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 2H
 Wellbore: Wellbore #1
 Design: plan1

Local Co-ordinate Reference: Well Warrior Fed Com 2734B 2H
 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

Design Targets

Target Name	hit/miss target	Dip Angle	Dip Dir	TVD	+N/S	+E/W	Northing	Easting	Latitude	Longitude
Shape		(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
Warrior Fed Com 273		0.00	0.00	8,850.00	-5,782.20	-35.70	493,515.50	623,250.70	32° 21' 23.276 N	104° 4' 5.002 W
plan hits target center										
Point										
Warrior Fed Com 273		0.00	0.00	8,850.00	-603.12	-0.11	498,694.58	623,286.30	32° 22' 14.526 N	104° 4' 4.437 W
plan misses target center by 28.68usft at 9206.78usft MD (8850.00 TVD, -602.01 N, -28.76 E)										
Point										
Warrior Fed Com 273		0.00	0.00	8,850.00	-10,958.70	119.00	488,339.00	623,405.40	32° 20' 32.047 N	104° 4' 3.348 W
plan hits target center										
Point										

Plan Annotations

Measured Depth	Vertical Depth	Local Coordinates		Comment
(usft)	(usft)	+N/S	+E/W	
(usft)	(usft)	(usft)	(usft)	
8,277.04	8,277.04	0.00	0.00	Start Build 10.00
9,177.04	8,850.00	-572.30	-27.49	Start DLS 2.00 TFO -90.00
9,311.77	8,850.00	-706.97	-30.79	Start 5075.23 hold at 9311.77 MD
14,387.00	8,850.00	-5,782.20	-35.70	Start DLS 2.00 TFO -90.00
14,476.13	8,850.00	-5,871.32	-34.40	Start 5089.70 hold at 14476.13 MD
19,565.82	8,850.00	-10,958.70	119.00	TD @ 19565.82 MD

Ridge Runner Resources Operating, LLC
Warrior Fed Com 2734 B 2H
SHL 500' FSL & 330' FEL 22-22s-28e
BHL 100' FSL & 330' 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'	6145'	hydrocarbons
1 st Bone Spring sandstone	7175'	7175'	hydrocarbons
2 nd Bone Spring sandstone	8000'	8000'	hydrocarbons
(KOP	8278'	8278'	hydrocarbons)
3 rd Bone Spring carbonate	8325'	8326'	
TD	8850'	19566'	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 2H
SHL 500' FSL & 330' FEL 22-22s-28e
BHL 100' FSL & 330' FEL 34-22s-28e
Eddy County, NM

DRILL PLAN PAGE 2

'fee/fee/Fed well'

$$\begin{aligned} 8175' \text{ TVD} \times 10 \text{ ppg mud} \times 0.052 &= 4251 \text{ psi} \\ - 8175' \times 0.22 \text{ psi/ft} &= 1798 \text{ psi} \\ \hline 2453 \text{ psi} \end{aligned}$$

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:

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

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 2H
 SHL 500' FSL & 330' FEL 22-22s-28e
 BHL 100' FSL & 330' FEL 34-22s-28e
 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' - 8175'	0' - 8175'	Inter. 9.625"	47	L-80	BTC	1.35 (10.0#)	1.62 (10.0#)	3.45 (10.0#)
8.5"	0' - 8175'	0' - 8175'	Prod. 1 7"	26	P-110 HC	CDC	1.47	2.34	4.45
8.5"	8175' - 19566'	8175' - 8850'	Prod. 2 5.5"	20	P-110	CDC	2.41 (10.0#)	2.16 (10.0#)	58.3 (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 2H
 SHL 500' FSL & 330' FEL 22-22s-28e
 BHL 100' FSL & 330' FEL 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 (8175' - 2700')	Lead	935	2.50	2337	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 = 7675' (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.

Ridge Runner Resources Operating, LLC
Warrior Fed Com 2734 B 2H
SHL 500' FSL & 330' FEL 22-22s-28e
BHL 100' FSL & 330' FEL 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' - 8175'	10.0	28-30	N/C
oil based mud	8175' - 19566'	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 ~158° F.

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

8. OTHER INFORMATION

Anticipated spud date is upon approval. It is expected it will take ~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 2H
SHL 500' FSL & 330' FEL 22-22s-28e
BHL 100' FSL & 330' 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.

TUBING SPOOL

SW-TCM

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

7" PP SEAL

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

7-1/16" 10M

13-5/8" 5M

24-7/8"

CASING HANGER, C-22, 13-5/8" x 7"

SW-MB SPOOL ASSEMBLY

UPPER MBH

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

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

13-5/8" 5M

24"

PACKOFF CSS, 13-5/8" x 9-5/8"

CASING HEAD ASSEMBLY

LOWER MBH

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

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

29-1/2"

CASING HANGER, MDRL, 13-5/8" x 9-5/8"

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



Midwest Hose
& Specialty, Inc.

Internal Hydrostatic Test Certificate

General Information		Hose Specifications	
Customer	Odessa	Hose Assembly Type	Choke & Kill
MWH Sales Representative	James Hawkins	Certification	API 7K/FSL Level 2
Date Assembled	6/22/2018	Hose Grade	Red
Location Assembled	OKC	Hose Working Pressure	10000
Sales Order #	382312	Hose Lot # and Date Code	12266-06/15
Customer Purchase Order #	426903	Hose I.D. (Inches)	2"
Assembly Serial # (Pick Ticket #)	474037	Hose O.D. (Inches)	4.11"
Hose Assembly Length	43 Feet	Armor (yes/no)	Yes
Fittings			
End A		End B	
Stem (Part and Revision #)	R2.0X32-1502M	Stem (Part and Revision #)	R2.0X32-1502F
Stem (Heat #)	60224840	Stem (Heat #)	A014853
Ferrule (Part and Revision #)	RF2.0X3875	Ferrule (Part and Revision #)	RF2.0X3875
Ferrule (Heat #)	A012890	Ferrule (Heat #)	A012890
Connection (Flange Hammer Union Part)		Connection (Part #)	
Connection (Heat #)		Connection (Heat #)	
Nut (Part #)	2" 1502	Nut (Part #)	
Nut (Heat #)		Nut (Heat #)	
Dies Used	97MM	Dies Used	97MM
Hydrostatic Test Requirements			
Test Pressure (psi)	15,000	Hose assembly was tested with ambient water temperature.	
Test Pressure Hold Time (minutes)	19 1/2		
Date Tested	Tested By		Approved By
6/22/2018			



Midwest Hose
& Specialty, Inc.

Certificate of Conformity

Customer: Odessa	Customer P.O.# 426903
Sales Order # 382312	Date Assembled: 6/22/2018

Specifications

Hose Assembly Type:	Choke & Kill	Rig #:	N/A
Assembly Serial #	474037	Hose Lot # and Date Code	12266-06/15
Hose Working Pressure (psi)	10000	Test Pressure (psi)	15000
Hose Assembly Description:	CK32-SS-L-10K-32M1502-32F1502-43.00' FT		

We hereby certify that the above material supplied for the referenced purchase order to be true according to the requirements of the purchase order and current industry standards.

Supplier:
Midwest Hose & Specialty, Inc.
3312 S I-35 Service Rd
Oklahoma City, OK 73129

Comments:

Approved By

Date

6/22/2018



Midwest Hose
& Specialty, Inc.

Internal Hydrostatic Test Graph

June 22, 2018

Customer: Odessa

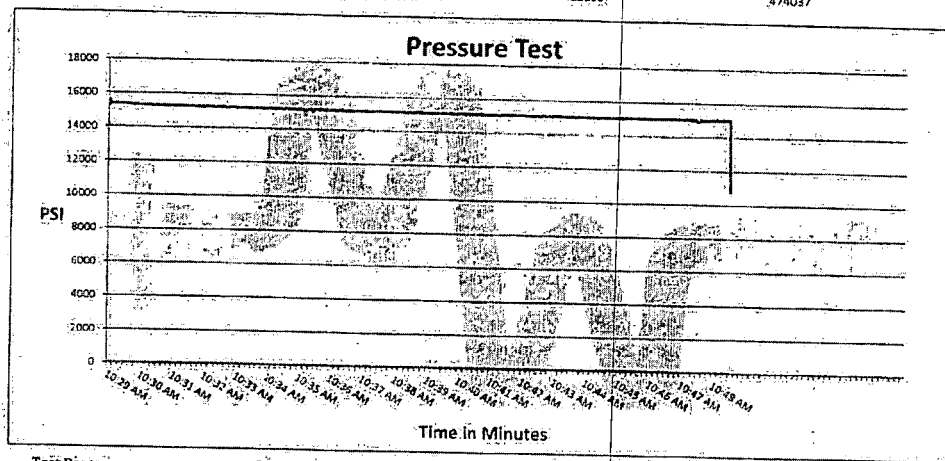
Pick Ticket #: 474037

Hose Specifications

Hose Type	Length
Mud	43'
I.D.	O.D.
2"	3.56"
Working Pressure	Burst Pressure
10000 PSI	Standard Safety Multiplier Applies

Verification

Type of Fitting	Coupling Method
2" 1502	Swage
Die Size	Final O.D.
97MM	4.02"
Hose Serial #	Hose Assembly Serial #
12266	474037



Test Pressure
15000 PSI

Time Held at Test Pressure
19 2/4 Minutes

Actual Burst Pressure

Peak Pressure
15556 PSI

Comments: Hose assembly pressure tested with water at ambient temperature.

Tested By: Josh Davis

Approved By: James Hawkins



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

SUPO Data Report

01/02/2020

APD ID: 10400039245

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: 2H

[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 - No SUPO 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 - No SUPO required

Operator Name: RIDGE RUNNER RESOURCES OPERATING LLC

Well Name: WARRIOR FED COM 2734 B

Well Number: 2H

Section 5 - Location and Types of Water Supply

Water Source Table

Water source type: OTHER

Describe type: Fee Fee Fed - No SUPO required

Water source use type: OTHER

Describe use type: Fee Fee Fed - No SUPO required

Source latitude:

Source longitude:

Source datum:

Water source permit type: PRIVATE CONTRACT

Water source transport method: TRUCKING

Source land ownership: OTHER

Describe land ownership: Fee Fee Fed - No SUPO required

Source transportation land ownership: OTHER

Describe transportation land ownership: Fee Fee Fed - No SUPO required

Water source volume (barrels): 0

Source volume (acre-feet): 0

Source volume (gal): 0

Water source and transportation map:

Warrior_2734B_2H_Fee_Fee_Fed_20190218142051.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: 2H

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 - No SUPO required

Amount of waste: 0 barrels

Waste disposal frequency : Daily

Safe containment description: Fee Fee Fed - No SUPO required

Safe containmant attachment:

Waste disposal type: OTHER

Disposal location ownership: OTHER

Disposal type description: Fee Fee Fed - No SUPO required

Disposal location description: Fee Fee Fed - No SUPO 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: 2H

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_2743B_2H_Well_Site_Layout_20191122161113.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 - No SUPO required

Drainage/Erosion control reclamation: Fee Fee Fed - No SUPO 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: 2H

Disturbance Comments:

Reconstruction method: Fee Fee Fed - No SUPO required

Topsoil redistribution: Fee Fee Fed - No SUPO required

Soil treatment: Fee Fee Fed - No SUPO 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

Total pounds/Acre:

Seed Type

Pounds/Acre

Seed reclamation attachment:

Operator Name: RIDGE RUNNER RESOURCES OPERATING LLC

Well Name: WARRIOR FED COM 2734 B

Well Number: 2H

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 - No SUPO required

Weed treatment plan attachment:

Monitoring plan description: Fee Fee Fed - No SUPO required

Monitoring plan attachment:

Success standards: Fee Fee Fed - No SUPO 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 B

Well Number: 2H

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

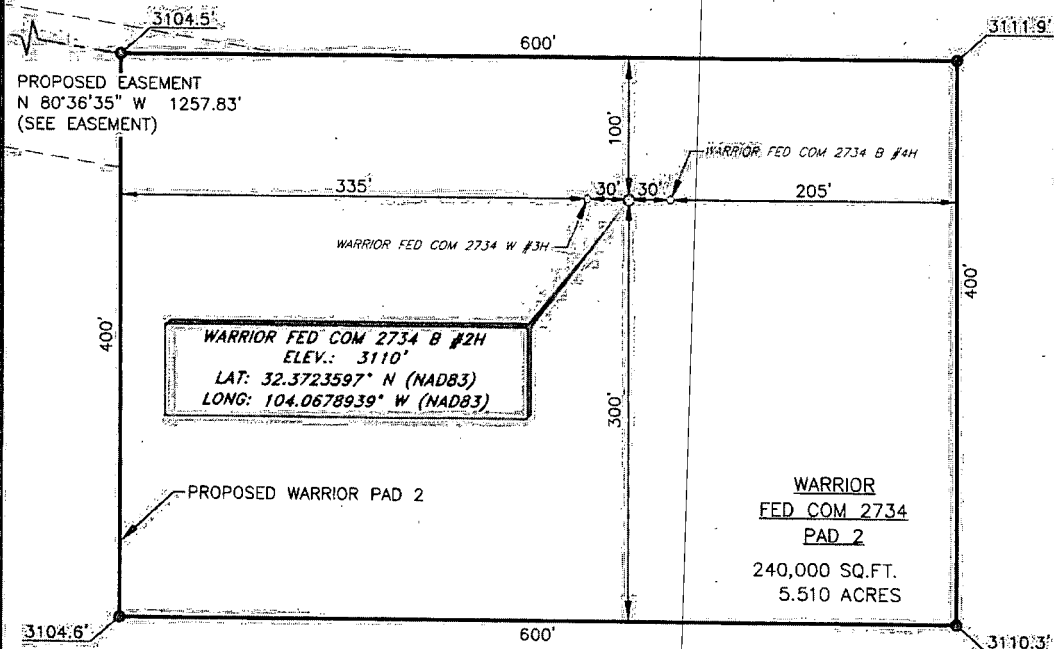
Previous Onsite information:

Other SUPO Attachment

Ridge Runner Resources Operating Warrior Fed Com 2734B 2H

Fee Fee Fed – SUPO not required

RIDGE RUNNER RESOURCES OPERATING, LLC.
WARRIOR FED COM 2734 B #2H
(500' FSL & 330' FEL)
SECTION 22, T22S, R28E
N. M. P. M., EDDY COUNTY, NEW MEXICO



DIRECTIONS TO LOCATION

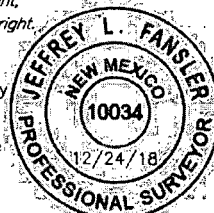
From the intersection of State Highway 31 (Potash Mines Rd.) and CR-605 (Refinery Rd.),
Go Northwest on CR-605 approx. 4.2 miles to lease road on the right;
Turn right and go North approx. 0.9 miles to proposed road on the right;
Turn right and go East approx. 1.0 miles to proposed location on the right.

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



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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 (575) 964-8200

SCALE: 1" = 100'
SURVEYED BY: AB/RU
DRAWN BY: AAC
APPROVED BY: JLF
JOB NO.: LS18111311
SHEET: B 2H PAD



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

PWD Data Report

01/02/2020

APD ID: 10400039245

Submission Date: 02/19/2019

Operator Name: RIDGE RUNNER RESOURCES OPERATING LLC

Well Name: WARRIOR FED COM 2734 B

Well Number: 2H

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: 2H

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: 2H

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: 2H

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: 10400039245

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: 2H

[Show Final Text](#)

Well Type: OIL 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: