UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

OCD - HOBBS 06|09|2020 RECEIVED

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

| | Expires: January | 3 |
|----------|------------------|---|
| 5. Lease | Serial No. | |

6. If Indian, Allotee or Tribe Name

NMLC0068281B

APPLICATION FOR PERMIT TO DRILL OR REENTER

| 1a. Type of work: ✓ DRILL REI 1b. Type of Well: ✓ Oil Well Gas Well Oth | ENTER | | | 7. If Unit or CA Agr ZIA HILLS BS/WC | | | |
|---|--|---|---------------------|--|-----------|-------------------|--|
| | _ | _ | | 8. Lease Name and Y | Well No. | | |
| 1c. Type of Completion: Hydraulic Fracturing Sing | gle Zone | Multiple Zone | | ZHU 2032 BS 8H | [328 | 3111] | |
| 2. Name of Operator CONOCOPHILLIPS COMPANY [217817] | | | | 9. API Well No. 3 | 0-025 | -47305 | |
| | b. Phone N 281)293-17 | o. (include area cod 748 | (e) | 10. Field and Pool, o BONESPRING / ZI | | , , | |
| 4. Location of Well (Report location clearly and in accordance with | th any State | requirements.*) | | 11. Sec., T. R. M. or | Blk. and | Survey or Area | |
| At surface NESE / 2640 FSL / 1225 FEL / LAT 32.02810 | 8 / LONG - | -103.692547 | | SEC 20 / T26S / R: | 32E / NI | MP | |
| At proposed prod. zone NENE / 50 FNL / 330 FEL / LAT 3 | 2.050108 / | LONG -103.68966 | 65 | | | | |
| 14. Distance in miles and direction from nearest town or post office 43.95 miles | e* | | | 12. County or Parish LEA | 1 | 13. State | |
| location to nearest 1225 feet | 16. No of ac | res in lease | 17. Spacii | ng Unit dedicated to th | nis well | | |
| to nearest well, drilling, completed, 22 fact | 19. Proposed | • | 20. BLM/ FED: ES | BIA Bond No. in file | | | |
| applied for, on this lease, ft. | 9433 16617 | 17200 1661 | LD. LS | | | | |
| | 22. Approxii 10/09/2020 | mate date work will | start* | 23. Estimated durati 90 days | on | | |
| | 24. Attac | hments | | • | | | |
| The following, completed in accordance with the requirements of C (as applicable) | Onshore Oil | and Gas Order No. 1 | I, and the H | Iydraulic Fracturing ru | ule per 4 | 3 CFR 3162.3-3 | |
| Well plat certified by a registered surveyor. A Drilling Plan. | | 4. Bond to cover th Item 20 above). | e operation | s unless covered by an | existing | bond on file (see | |
| 3. A Surface Use Plan (if the location is on National Forest System SUPO must be filed with the appropriate Forest Service Office). | Lands, the | 5. Operator certific 6. Such other site sp BLM. | | mation and/or plans as | may be r | requested by the | |
| 25. Signature | I | (Printed/Typed) | | | Date | | |
| (Electronic Submission) | Jerem | y Lee / Ph: (832)4 | 86-2510 | | 08/07/2 | 2019 | |
| Title Regulatory Coordinator | | | | | | | |
| Approved by (Signature) | | (Printed/Typed) | | Date | | | |
| (Electronic Submission) | Christopher Walls / Ph: (575)234-2234 06/08/2020 | | | | 2020 | | |
| Title Petroleum Engineer | Office | | | | | | |
| - otroiodin Enginodi | J 07 11 C | | | | | | |

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.

GCP Rec 06/09/2020

SL





PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: | CONOCOPHILLIPS COMPANY

LEASE NO.: NMLC0068281B

WELL NAME & NO.: ZHU 2032 BS 8H SURFACE HOLE FOOTAGE: 2640'/S & 1225'/E BOTTOM HOLE FOOTAGE 50'/N & 330'/E

LOCATION: | Section 20, T.26 S., R.32 E., NMPM

COUNTY: Lea County, New Mexico

COA

| H2S | Yes | O No | |
|----------------------|------------------|----------------|--------------|
| Potash | None | © Secretary | © R-111-P |
| Cave/Karst Potential | C Low | Medium | © High |
| Cave/Karst Potential | Critical | | |
| Variance | None | Flex Hose | Other |
| Wellhead | Conventional | Multibowl | © Both |
| Other | 4 String Area | Capitan Reef | □WIPP |
| Other | Fluid Filled | Cement Squeeze | ☐ Pilot Hole |
| Special Requirements | ☐ Water Disposal | □ СОМ | Unit |

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H2S) Drilling Plan shall be activated 500 feet prior to drilling into the Cherry and Brushy Canyon formations. As a result, the Hydrogen Sulfide area must meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

B. CASING

Casing Design:

- 1. The 13-3/8 inch surface casing shall be set at approximately 1224 feet (a minimum of 25 feet (Lea 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 fluid filled to meet BLM minimum collapse requirement.

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

Option 1 (Single Stage):

Cement to surface. If cement does not circulate see B.1.a, c-d above.
 Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.
 Excess cement calculates to -50%, additional cement might be required.

Option 2:

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 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.

Option 1:

- a. 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.
- b. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the intermediate casing shoe shall be **5000 (5M)** psi.

Option 2:

- 1. 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 10,000 (10M) psi. Variance is approved to use a 5000 (5M) Annular which shall be tested to 2500 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.

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
- 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 intergrity 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 intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
- 5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
- 6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
- 7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
- 8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

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.

OTA06012020

Page 8 of 8



Well Name: ZHU 2032 BS

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

Application Data Report

06/09/2020

Operator Name: CONOCOPHILLIPS COMPANY

Well Number: 8H

Well Type: OIL WELL Well Work Type: Drill

Highlighted data reflects the most

recent changes

Show Final Text

Section 1 - General

BLM Office: CARLSBAD User: Jeremy Lee Title: Regulatory Coordinator

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

Lease number: NMLC0068281B Lease Acres: 1841.48

Surface access agreement in place? Allotted? Reservation:

Agreement in place? YES Federal or Indian agreement: FEDERAL

Agreement number: NMNM138329X

Agreement name:

Keep application confidential? NO

Permitting Agent? NO APD Operator: CONOCOPHILLIPS COMPANY

Operator letter of designation:

Operator Info

Operator Organization Name: CONOCOPHILLIPS COMPANY

Operator Address: PO Box 2197
Zip: 77252

Operator PO Box:

Operator City: Houston State: TX

Operator Phone: (281)293-1748

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: ZHU 2032 BS Well Number: 8H Well API Number:

Field/Pool or Exploratory? Field and Pool Field Name: BONESPRING Pool Name: ZIA HILLS; BONE

SPRING

Is the proposed well in an area containing other mineral resources? NONE

Well Name: ZHU 2032 BS Well Number: 8H

Is the proposed well in an area containing other mineral resources? NONE

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: ZIA Number: 4

Well Class: HORIZONTAL

HILLS 20 PAD

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: 43.95 Miles Distance to nearest well: 33 FT Distance to lease line: 1225 FT

Reservoir well spacing assigned acres Measurement: 0 Acres

Well plat: ZHU_2032_8H_C102_20200421063100.pdf

Well work start Date: 10/09/2020 Duration: 90 DAYS

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83 Vertical Datum: NAVD88

Survey number: 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 | 264 0 | FSL | 122 5 | FEL | 26S | 32E | 20 | Aliquot NESE | 32.02810 8 | - 103.6925 47 | LEA | 1 | NEW MEXI CO | F | NMLC0 068281 B | 314 3 | 0 | 0 | |
| KOP Leg #1 | 269 1 | FSL | 331 | FEL | 26S | 32E | 20 | Aliquot SENE | 32.02842 45 | - 103.6895 167 | LEA | 1 | NEW MEXI CO | F | NMLC0 068281 B | - 563 4 | 886 4 | 877 7 | |
| PPP Leg #1-1 | 224 2 | FNL | 330 | FEL | 26S | 32E | 20 | Aliquot SENE | 32.02938 9 | - 103.6896 57 | LEA | NEW MEXI CO | NEW MEXI CO | F | NMLC0 068281 B | - 503 2 | 826 0 | 817 5 | |

Well Name: ZHU 2032 BS Well Number: 8H

| 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? |
|-------------------|---------|--------------|---------|--------------|------|-------|---------|-------------------|---------------|---------------------|--------|-------------------|-------------------|------------|----------------------|---------------|----|----------|--|
| EXIT Leg #1 | 100 | FNL | 330 | FEL | 26S | 32E | 17 | Aliquot NENE | 32.04997 | - 103.6896 65 | LEA | NEW MEXI CO | NEW MEXI CO | | NMLC0 068281 B | - 635 0 | | 949 3 | |
| BHL Leg #1 | 50 | FNL | 330 | FEL | 26S | 32E | 17 | Aliquot NENE | 32.05010 8 | - 103.6896 65 | LEA | NEW MEXI CO | NEW MEXI CO | | NMLC0 068281 B | - 635 0 | | 949 3 | |



BUREAU OF LAND MANAGEMENT

Drilling Plan Data Report

06/09/2020

APD ID: 10400043596

Submission Date: 08/07/2019

Highlighted data reflects the most recent changes

Operator Name: CONOCOPHILLIPS COMPANY

Well Number: 8H

Show Final Text

Well Type: OIL WELL

Well Name: ZHU 2032 BS

Well Work Type: Drill

Section 1 - Geologic Formations

| Formation ID | Formation Name | Elevation | True Vertical Depth | Measured Depth | Lithologies | Mineral Resources | Producing Formation |
|--------------|-----------------|-----------|------------------------|-------------------|------------------------|-------------------|------------------------|
| 496365 | QUATERNARY | 3144 | 22 | 22 | | NONE | N |
| 496366 | RUSTLER | 1970 | 1174 | 1174 | ANHYDRITE, DOLOMITE | NONE | N |
| 496367 | SALADO | 1800 | 1344 | 1344 | SALT | NONE | N |
| 496368 | CASTILE | 810 | 2334 | 2334 | SALT | NONE | N |
| 496369 | DELAWARE | -1187 | 4331 | 4331 | SANDSTONE | NATURAL GAS, OIL | N |
| 496370 | CHERRY CANYON | -2110 | 5254 | 5254 | SANDSTONE | NATURAL GAS, OIL | N |
| 496371 | BRUSHY CANYON | -3641 | 6785 | 6785 | SANDSTONE | NATURAL GAS, OIL | N |
| 496372 | BONE SPRING | -5031 | 8175 | 8175 | SANDSTONE | NATURAL GAS, OIL | N |
| 664449 | BONE SPRING 1ST | -6188 | 9332 | 9332 | SANDSTONE | NATURAL GAS, OIL | Y |
| 664450 | BONE SPRING 2ND | -6913 | 10057 | 10057 | SANDSTONE | NATURAL GAS, OIL | N |
| 664451 | BONE SPRING 3RD | -7398 | 10542 | 10542 | LIMESTONE | NATURAL GAS, OIL | N |

Section 2 - Blowout Prevention

Pressure Rating (PSI): 10M Rating Depth: 9493

Equipment: Rotating Head, Annular Preventer, Pipe/Blind Rams, Kill Lines, Choke Lines, Adapter Spool

Requesting Variance? YES

Variance request: A variance to use flexible choke line(s) from the BOP to Choke Manifold. Testing certificate is attached in "Flexhose Variance data" document. A variance to use a multibowl wellhead system. Please see attached in section 8 of drilling plan. A variance is requested to use a 5M annular and test the annular to 100% of its working pressure. The variance is requested in conjunction with the attached well control plan.

Testing Procedure: BOP/BOPE will be isolated from the casing and tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. BOPE controls will be installed prior to drilling under the surface casing and will be used until the completion of drilling operations. The intermediate interval and the

Well Name: ZHU 2032 BS Well Number: 8H

production interval will be tested per 10M working system requirements. See attached "Drill Plan" document.

Choke Diagram Attachment:

ZHU_2032_BS_8H_Choke_Manifold_20190712072652.pdf

BOP Diagram Attachment:

ZHU_2032_BS_8H_BOPE_20190712072702.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 | 1224 | 0 | 1224 | | | 1224 | J-55 | | OTHER - BTC | 3.08 | 4.99 | DRY | 13.6 3 | DRY | 13.6 3 |
| | INTERMED IATE | 12.2 5 | 9.625 | NEW | API | N | 0 | 10089 | 0 | 9493 | | | 10089 | OTH ER | | OTHER - BTC | 3.11 | 2.06 | DRY | 2.29 | DRY | 2.29 |
| 3 | PRODUCTI ON | 8.5 | 5.5 | NEW | API | N | 0 | 17208 | 0 | 9493 | | | 17208 | OTH ER | | OTHER - TXP | 7.69 | 4.37 | DRY | 3.84 | DRY | 3.84 |

Casing Attachments

Casing ID: 1 String Type: SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

13.375_54.5_lb_J55_20190710134019.pdf

Well Name: ZHU 2032 BS Well Number: 8H

Casing Attachments

Casing ID: 2 String Type: INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

9.625_40_lb_L_80_IC_20190710134042.pdf

Casing ID: 3 String Type: PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

5.5_TXP_Spec_Sheet_20190710134130.pdf

Section 4 - Cement

| String Type | Lead/Tail | Stage Tool Depth | Тор МБ | Bottom MD | Quantity(sx) | Yield | Density | Cu Ft | Excess% | Cement type | Additives |
|--------------|-----------|---------------------|--------|-----------|--------------|-------|---------|-------|---------|------------------|--|
| SURFACE | Lead | | 0 | 824 | 1000 | 1.73 | 12.8 | 1716 | 200 | Control Set 'C' | 1.0% CaCl2, 1.0% SMS, 1.0% OGC-60, ¼ lb/sk Polyflake, ½ ppb FiberBlock |
| SURFACE | Tail | | 824 | 1224 | 660 | 1.33 | 14.8 | 868 | 200 | 0:1:0 'Type III' | 0.5% CaCl2, ¼ lb/sk Polyflake, ½ ppb FiberBlock |
| INTERMEDIATE | Lead | | 0 | 6785 | 3280 | 1.73 | 11 | 5668 | 200 | Thermal 35 | 10% NaCl, 0.9% CFR, 0.7% CFL-4, 0.1% LTR, 0.2% SPC-II, 0.4% CDF-4P, ¼ lb/sk |

Well Name: ZHU 2032 BS Well Number: 8H

| String Type | Lead/Tail | Stage Tool Depth | Тор МD | Bottom MD | Quantity(sx) | Yield | Density | Cu Ft | Excess% | Cement type | Additives |
|-------------|-----------|---------------------|--------|-----------|--------------|-------|---------|-------|---------|-------------|--------------------------------|
| | | | | | | | | | | | Polyflake, ½ ppb FiberBlock |

| INTERMEDIATE | Lead | 6785 | 724 | 8364 | 320 | 2.7 | 11 | 841 | 70 | WBL | 0.5% CFL-4, 0.6% LTR, 0.2% SPC-II, 0.4% CDF-4P, ¼ lb/sk Polyflake, ½ ppb FiberBlock |
|--------------|------|------|------|-----------|------|------|------|------|----|--------------------------|---|
| INTERMEDIATE | Tail | | 8364 | 1008 9 | 470 | 1.59 | 13.2 | 741 | 30 | Thermal 35 | 10% NaCl, 0.9% CFR, 0.7% CFL-4, 0.1% LTR, 0.2% SPC-II, 0.4% CDF-4P, ¼ lb/sk Polyflake, ½ ppb FiberBlock |
| PRODUCTION | Lead | | 0 | 1720 8 | 0 | 0 | 0 | 0 | 0 | No Lead | No Lead |
| PRODUCTION | Tail | | 7864 | 1720 8 | 1996 | 1.19 | 15.6 | 2374 | 10 | 1:1:0 'Poz:Lafarge G' | 20% Silica Flour, 8% Silica Flume, 2% FWCA-H (FWC-2), 0.3% HTR, 0.5% CR-4 (MCR-4), 1% TAE-1 (SEA-1), 1% CFL-4, 0.2% CFR-5, 0.3% ASM-3 (AS-3) |

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: Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times. See attached "Drill Plan" for additional information.

Describe the mud monitoring system utilized: Closed-loop mud system using steel mud containers will be on location. Mud monitoring of any changes in levels (gains or losses) will use Pressure Volume Temperature, Pason, Visual Observations. See attached "Drill Plan" for additional information.

Circulating Medium Table

Well Name: ZHU 2032 BS Well Number: 8H

| Top Depth | Bottom Depth | Mud Type | Min Weight (lbs/gal) | Max Weight (lbs/gal) | Density (lbs/cu ft) | Gel Strength (lbs/100 sqft) | ЬН | Viscosity (CP) | Salinity (ppm) | Filtration (cc) | Additional Characteristics |
|-----------|--------------|------------------------|----------------------|----------------------|---------------------|-----------------------------|----|----------------|----------------|-----------------|----------------------------|
| 1224 | 9493 | OTHER : Brine | 9.5 | 10.5 | | | | | | | |
| 0 | 1224 | OTHER : Fresh Water | 8.6 | 9.1 | | | | | | | |
| 9493 | 9493 | OIL-BASED MUD | 10.5 | 11.5 | | | | | | | |

Section 6 - Test, Logging, Coring

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

Production tests will be conducted multiple times per week, through a test separator, during first months following completion. Thereafter, tests will be less frequently. See attached "Drill Plan" for additional information.

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

GR

Coring operation description for the well:

No coring operation is planned at this time.

This well will be an Infill Horizontal well as defined in Part H of 19.15.16.7 NMAC. It will not have a unique horizontal spacing unit. It will share a horizontal spacing unit.

ConocoPhillips Company requests a variance to the requirement to run a neutron porosity log for any wells within one mile of an existing well with a neutron porosity log (vertical well, or vertical portion of a horizontal well). If there is an existing neutron log within one mile, ConocoPhillips requests to log gamma ray only. If there is not an existing neutron log within one mile, ConocoPhillips request to run a GR/N log on the vertical section of one well per pad.

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 4936 Anticipated Surface Pressure: 2847.54

Anticipated Bottom Hole Temperature(F): 165

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

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards attachment:

Well Name: ZHU 2032 BS Well Number: 8H

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations plan:

ZIA_HILLS_20_PAD_4_H2S_C_Plan_20190711125554.pdf Zia_Hills_20_Pad_4_Rig_Layout_20190711125808.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

ZHU_2032_BS_8H_Directional_Plan_20200416131050.pdf ZHU_2032_BS_8H_Drill_Plan_20200421125807.pdf

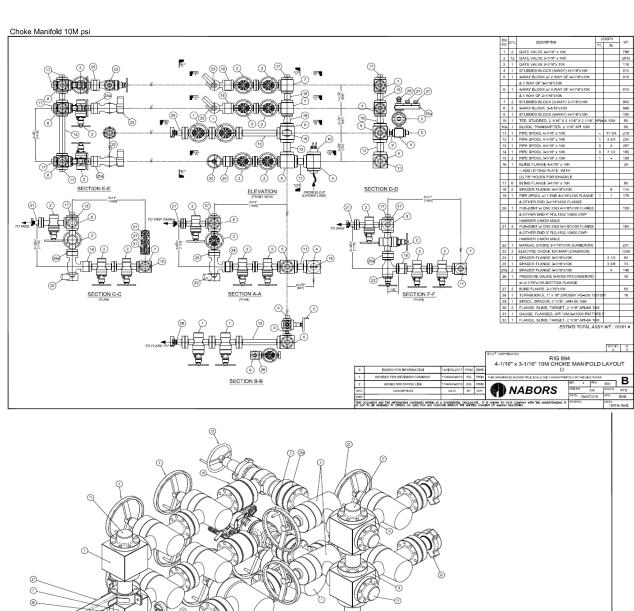
Other proposed operations facets description:

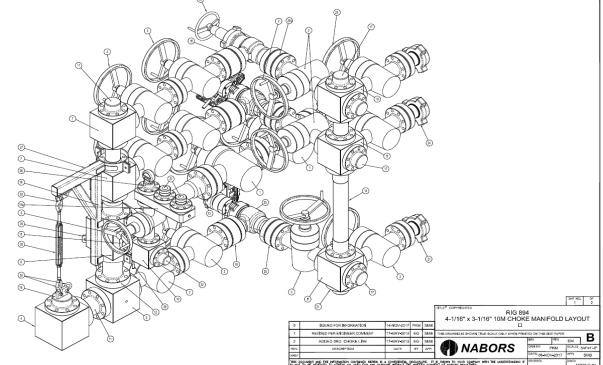
Other proposed operations facets attachment:

Zia_Hills_20_Pad_4_Drill_Waste_Containment_20190711130956.pdf
ZHU_2032_BS_8H_Kelly_Cock_20190712084212.pdf
ZHU_2032_BS_5H_8H_Gas_Capture_Plan_20190712084233.pdf

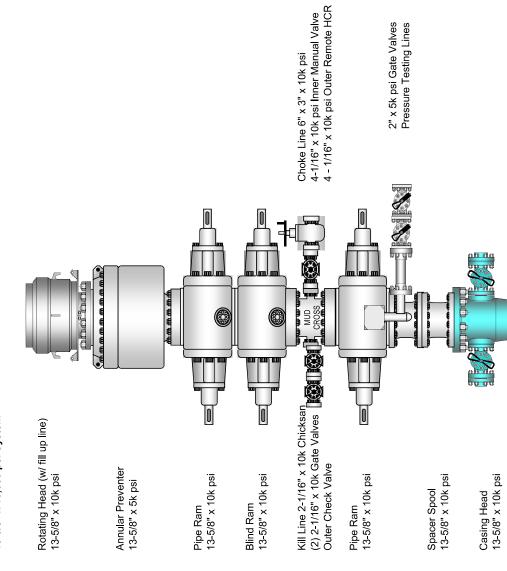
Other Variance attachment:

Zia_Hills_20_Pad_4_Flexhose_Variance_20190711131033.pdf Wild_Well_Control_Plan_20190711131059.pdf Wellhead_diagram_3_String__20200217135248.pdf





BOPE Configuration & Specifications 13-5/8" x 10,000 psi System



Tenaris Page 1 of 2

For the latest performance data, always visit our website: www.tenaris.com

TXP® BTC



| Outside Diameter | 5.500 in. | Min. Wall Thickness | 87.5% | (*) Grade P110 | |
|------------------|------------------|------------------------|--------------|--|--------------------------------|
| Wall Thickness | 0.415 in. | Connection OD Option | REGULAR | COUPLING | PIPE BODY |
| Grade | P110* | Drift | API Standard | Body: White 1st Band: - | 1st Band: White 2nd Band: - |
| | | Туре | Casing | 2nd Band: - 3rd Band: - | 3rd Band: - 4th Band: - |
| | | | | | |

| PIPE BODY DATA | | | | | |
|----------------------------|----------------------|----------------------|-----------------------------|--------------------------------|---------------------|
| GEOMETRY | | | | | |
| Nominal OD | 5.500 in. | Nominal Weight | 23 lbs/ft | Drift | 4.545 in. |
| Nominal ID | 4.670 in. | Wall Thickness | 0.415 in. | Plain End Weight | 22.56 lbs/ft |
| OD Tolerance | API | | | | |
| PERFORMANCE | | | | | |
| Body Yield Strength | 729 x1000 lbs | Internal Yield | 14530 psi | SMYS | 110000 psi |
| Collapse | 14540 psi | | | | |
| CONNECTION DATA | <u> </u> | | | | |
| GEOMETRY | | | | | |
| Connection OD | 6.200 in. | Coupling Length | 9.450 in. | Connection ID | 4.658 in. |
| Make-up Loss | 4.204 in. | Threads per in | 5 | Connection OD Option REG | |
| PERFORMANCE | | | | | |
| Tension Efficiency | 100.0 % | Joint Yield Strength | 729.000 x1000 lbs | Internal Pressure Capacity [1] | 14530.000 ps |
| Compression Efficiency | 100 % | Compression Strength | 729.000 x1000 lbs | Max. Allowable Bending | 92 °/100 ft |
| External Pressure Capacity | 14540,000 psi | | | | |
| MAKE-UP TORQUES | <u> </u> | | | ı | |
| Minimum | 12980 ft-lbs | Optimum | 14420 ft-lbs | Maximum | 15860 ft-lbs |
| OPERATION LIMIT T | ORQUES | | | I | |
| Operating Torque | 24200 ft-lbs | Yield Torque | 26900 ft-lbs | | |

Notes

This connection is fully interchangeable with:

TXP® BTC - 5.5 in. - 15.5 / 17 / 20 / 26 lbs/ft

[1] Internal Pressure Capacity related to structural resistance only. Internal pressure leak resistance as per section 10.3 API 5C3 / ISO 10400 - 2007.

Datasheet is also valid for Special Bevel option when applicable - except for Coupling Face Load, which will be reduced. Please contact a local Tenaris technical sales representative.

For further information on concepts indicated in this datasheet, download the Datasheet Manual from www.tenaris.com

Tenaris Page 2 of 2

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TXP® BTC Printed on: 22/04/2019 (*)GradeJ55 (Casing) 87.5% Min. Wall **Thickness** Outside 13.375 in. Connection OD REGULAR Coupling Pipe Body Diameter Option Wall Thickness 0.380 in. **API Standard** Body: Bright Green Drift 1st Band: Bright Green Grade J55 (Casing)* Type Casing 1st Band: 2nd Band: -White 2nd Band: -3rd Band: -3rd Band: -4th Band: -

| PIPE BODY D | DATA | | | | |
|----------------------------------|---------------|---------------------------|----------------------|--------------------------------------|--------------|
| Nominal OD | 13.375 in. | Nominal Weight | 54.5 lbs/ft | Drift | 12.459 in. |
| Nominal ID | 12.615 in. | Wa ll Thickness | 0.380 in. | Plain End Weight | 52.79 lbs/ft |
| OD Tolerance | API | | | | |
| Performance | | | | | |
| Body Yield Strength | 853 x1000 lbs | Internal Yield | 2730 psi | SMYS | 55000 psi |
| Collapse | 1130 psi | | | | |
| CONNECTIO | N DATA | | | | |
| Geometry | | | | | • |
| Connection OD | 14.375 in. | Coupling Length | 10.825 in. | Connection ID | 12.603 in. |
| Make-up Loss | 4.891 in. | Threads per in | 5 | Connection OD Option | REGULAR |
| Performance | | | | | |
| Tension Efficiency | 100.0 % | Joint Yield Strength | 853.000 x1000 lbs | Internal Pressure Capacity [1] | 2730.000 psi |
| Compression Efficiency | 100 % | Compression Strength | 853.000 x1000 lbs | Max. Allowable Bending | 19 °/100 ft |
| External Pressure Capacity | 1130.000 psi | | | | |
| Make-Up Toro | ques | | | | |
| Minimum | 21610 ft-lbs | Optimum | 24010 ft-lbs | Maximum | 26410 ft-lbs |
| Operation Lim | nit Torques | | | | |
| Operating Torque | 54300 ft-lbs | Yield Torque | 68700 ft-lbs | | |

Notes

[1] Internal Pressure Capacity related to structural resistance only. Internal pressure leak resistance as per section 10.3 API 5C3 / ISO 10400 - 2007.

Datasheet is also valid for Special Bevel option when applicable - except for Coupling Face Load, which will be reduced. Please contact a local Tenaris technical sales representative.

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TXP® BTC Printed on: 22/04/2019 Min. Wall 87.5% (*)GradeL80-IC **Thickness** Connection OD REGULAR Option 9.625 in. Coupling Pipe Body Outside Diameter Wall Thickness 0.395 in. Drift API Standard Body: Red 1st Band: Red L80-IC* Grade Type Casing 1st Band: 2nd Band: Brown Brown

3rd Band: - 4th Band: -

3rd Band: Pale Green

2nd Band: -

| | | | | | 3rd Band: - |
|----------------------------------|---------------|-------------------------|----------------------|--------------------------------------|--------------|
| PIPE BODY [| DATA | | | | |
| Geometry | | | | | |
| Nominal OD | 9.625 in. | Nominal Weight | 40 lbs/ft | Drift | 8.679 in. |
| Nominal ID | 8.835 in. | Wall Thickness | 0.395 in. | Plain End Weight | 38.97 lbs/ft |
| OD Tolerance | API | | | | |
| Performance | | | | | |
| Body Yield Strength | 916 x1000 lbs | Internal Yield | 5750 psi | SMYS | 80000 psi |
| Collapse | 3870 psi | | | | |
| CONNECTIO | N DATA | | | | |
| Geometry | | | | | |
| Connection OD | 10.625 in. | Coupling Length | 10.825 in. | Connection ID | 8.823 in. |
| Make-up Loss | 4.891 in. | Threads per in | 5 | Connection OD Option | REGULAR |
| Performance | | | | | |
| Tension Efficiency | 100.0 % | Joint Yield Strength | 916.000 ×1000 lbs | Internal Pressure Capacity [1] | 5750.000 psi |
| Compression Efficiency | 100 % | Compression Strength | 916.000 x1000 lbs | Max. Allowable Bending | 38 °/100 ft |
| External Pressure Capacity | 3870.000 psi | | | | |
| Make-Up Tord | ques | | | | |
| Minimum | 18860 ft-lbs | Optimum | 20960 ft-lbs | Maximum | 23060 ft-lbs |
| Operation Limit Torques | | | | | |
| Operating Torque | 35600 ft-lbs | Yield Torque | 43400 ft-lbs | | |
| | | | | | |

Notes

This connection is fully interchangeable with:

[1] Internal Pressure Capacity related to structural resistance only. Internal pressure leak resistance as per section 10.3 API 5C3 / ISO 10400 - 2007.

Datasheet is also valid for Special Bevel option when applicable - except for Coupling Face Load, which will be reduced. Please contact a local Tenaris technical sales representative.

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H₂S Contingency Plan November 2016

H₂S Contingency Plan Holders:

Attached is an H₂S Contingency Plan for COPC Permian Drilling working in the West Texas and Southeastern New Mexico areas operated by ConocoPhillips Company.

If you have any question regarding this plan, please call Matt Oster (830) 583-1297, or Ryan Vacarella (985) 217-7594.

Table of Contents

Section

- I. Purpose
- II. Scope
- III. Procedures
- IV. Emergency Equipment and Maintenance

Emergency Equipment Suppliers
General Information
H2S Safety Equipment and Monitoring Systems

- V. Emergency Call List
- VI. Public/Media Relations
- VII. Pubic Notification/Evacuation
- VIII. Forms/Reports



HYDROGEN SULFIDE (H₂S) OPERATIONS

Contingency Plan For Permian Drilling Operations

ConocoPhillips Company

Mid-Continent Business Unit Permian Asset Area

I.PURPOSE

The purpose of this Contingency Plan is to provide an organized plan of action for alerting and protecting the public following the release of a potentially hazardous volume of hydrogen sulfide. This plan prescribes mandatory safety procedures to be followed in the event of a release of H₂S into the atmosphere from exploration and production operations included in the scope of this plan. The extent of action taken will be determined by the supervisor and will depend on the severity and extent of H₂S release. Release of H₂S must be reported to the Drilling Superintendent and documented on the IADC and in Wellview.

II. SCOPE

This Contingency plan shall cover the West Texas and Southeastern New Mexico areas, which contain H2S gas and could result in a release where the R.O.E. is greater than 100 ppm at 50' and less than 3000' and does not include a public area and 500 ppm R.O.E. does not include a public road. Radius of exposure is defined as the maximum distance from the source of release that a specified calculated average concentration of H₂S could exist under specific weather conditions.

III. PROCEDURES

| First E | Employee on Scene |
|---------|--|
| | Assess the incident and <u>ensure your own safety</u> . |
| | Note the following: |
| | Location of the incident. Nature of the incident. Wind direction and weather conditions. Other assistance that may be needed. |
| | Call local supervisory personnel (refer to Section V: Emergency Call List) until personal contact is made with a person on the list. |
| | Perform emergency assessment and response as needed. The response may include rescue and/or evacuation of personnel, shutting in a system and/or notification of nearby residents/public (refer to Section VII: Public Notification/Evacuation). |
| | Secure the site. |
| | Follow the direction of the On-scene Incident Commander (first ConocoPhillips supervisor arriving on-scene). |
| First S | Supervisor on Scene (ConocoPhillips On-scene Incident Commander) |
| | Becomes ConocoPhillips' On-scene Incident Commander upon arrival to location. |
| | Follow the principles of the D.E.C.I.D.E. process below to assess the incident. (Note wind direction and weather conditions and ensure everyone's safety). |
| | DETECT the problem ESTIMATE likely harm without intervention CHOOSE response objectives IDENTIFY action options DO the best option EVALUATE the progress |

| (refer to Section VIII: Forms/Reports). |
|--|
| Call your supervisor (refer to Section V: Emergency Call List). |
| Perform emergency response as necessary. (This may include notification & evacuation of all personnel and/or nearby residents/public (refer to Section VII: Public Notification/Evacuation), requesting assistance from ConocoPhillips personnel or outside agencies (refer to Section V: Emergency Call List) and obtaining any safety equipment that may be required (refer to Section IV: Emergency Equipment and Maintenance). |
| Notify appropriate local emergency response agencies of the incident as needed. Also notify the appropriate regulatory agencies. (refer to Section V: Emergency Call List). |
| —— Ensure site security. |
| — Set barricades and /or warning signs at or beyond the calculated 100 ppm H ₂ S radius of exposure (ROE). All manned barricades must be equipped with an H ₂ S monitor and a 2-way radio. |
| — Set roadblocks and staging area as determined. |
| — Establish the Incident Command Structure by designating appropriate on- scene response personnel as follows: |
| Recording Secretary Public Information Officer Safety/Medical Officer Decontamination Officer |
| Have the "Recording Secretary" begin documenting the incident on the "Incident Log" (refer to Section VIII: Forms/Reports). |
| —— If needed, request radio silence on all channels that use your radio tower stating that, until further notice, the channels should be used for emergency communications only. |
| —— Perform a Site Characterization and designate the following: |
| Hot Zone Hazardous Area Warm Zone Preparation & Decontamination Area Cold Zone Safe Area |

AND

| On-Scene Incident Command Post Public Relations Briefing Area Staging Area Triage Area Decontamination Area | (Cold Zone) (Cold Zone) (Cold Zone) (Cold Zone) (Warm Zone) |
|---|---|
| Refer all media personnel to ConocoPhillips' On-Scene Officer (refer to Section VI: Public Media Relations). | e Public Information |
| Coordinate the attempt to stop the release of H ₂ S. Yo closing upstream and downstream valves to shut-off and/or plugging or clamping leaks. Igniting escaping toxicity hazard should be used ONLY AS A LAST RE be determined if the gas can be safely ignited, taking there is a possibility of a widespread flammable atmo | gas supply sources, gas to reduce the ESORT . (It must first into consideration if |
| Once the emergency is over, return the situation to no | rmal by: |
| Confirming the absence of H ₂ S and combustible area, | gas throughout the |
| Discontinuing the radio silence on all channels, semergency incident is over, | stating that the |
| Removing all barricades and warning signs, | |
| Allowing evacuees to return to the area, and | |
| Advising all parties previously notified that the er | mergency has ended. |
| Ensure the proper regulatory authorities/agencies are r incident (refer to Section V: Emergency Call List). | notified of the |
| Clean up the site. (Be sure all contractor crews have I HAZWOPER training.) | nad appropriate |
| Report completion of the cleanup to the Asset Environmentalist will report this to the proper State ar agencies.) | |

| Fill out all required incident reports and send originals to the Safety Department. (Keep a copy for your records.) |
|--|
| Company employee receiving occupational injury or illnesses. |
| Company employee involved in a vehicle accident while driving a company vehicle. |
| Company property that is damaged or lost. |
| Accident involving the public or a contractor; includes personal injuries, vehicle accidents, and property damage. Also includes any situation, which could result in a claim against the Company. |
| Hazardous Material Spill/Release Report Form |
| Emergency Drill Report |
| Assist the Safety Department in the investigation of the incident. Review the factors that caused or allowed the incident to occur, and modify operating, maintenance, and/or surveillance procedures as needed. Make appropriate repairs and train or retrain employees in the use and operation of the system. |
| If this incident was simulated for practice in emergency response, complete the Emergency Drill Report found in Section VIII: Forms/Reports and submit a copy to the Drilling Manager. (Keep one copy in area files to document exercising of the plan.) |

Emergency Procedures Responsibility

In the event of a release of potentially hazardous amounts of H2S, all personnel will immediately proceed upwind/ crosswind to the nearest designated briefing area. The COPC Drilling Rep. will immediately, upon assessing the situation, set this into action by taking the proper procedures to contain the gas and notify appropriate people and agencies.

- 1. In an emergency situation, the Drilling Rep. on duty will have complete responsibility and will take whatever action is deemed necessary in an emergency situation to insure the personnel's safety, to protect the well and to prevent property damage.
- 2. The Toolpusher will assume all responsibilities of the Drilling Rep. in an emergency situation in the event the Drilling Rep. becomes incapacitated.
- 3. Advise each contractor, service company, and all others entering the site that H2S may be encountered and the potential hazards that may exist.
- 4. Authorize the evacuation of local residents if H2S threatens their safety.
- 5. Keep the number of persons on location to a minimum during hazardous operations.
- 6. Direct corrective actions to control the flow of gas.
- 7. Has full responsibility for igniting escaping gas to reduce the toxicity hazard.

This should be used **ONLY AS A LAST RESORT**.

IV. **EMERGENCY EQUIPMENT and MAINTENANCE**

Emergency Equipment Suppliers

DXP/ Safety International - Odessa, Tx.

H₂S monitors 432.580.3770

Breathing air includes cascade systems

First aid and medical supplies

Safety equipment

H2S Specialist

Total Safety US Odessa, Tx/ Hobs, NM

432.561.5049 Odessa 575.392.2973 Hobbs H₂S monitors

Breathing air includes cascade systems

First aid and medical supplies

Safety equipment

DXP/ Indian Fire & Safety - Hobbs, NM

575.393.3093

H₂S monitors

Breathing air including cascade systems trailer mounted

30 minute air packs

Safety Equipment

TC Safety - Odessa, Tx.

H₂S monitors 432.413.8240

Cascade systems trailer mounted

30 minute air packs

Safety Equipment

H2S Specialist

Secorp Industries - Odessa, Tx.

432,614,2565

H2S Monitor Systems

Cascade Systems

H2S Specialist

H2S, CPR, First Aid Training

Emergency Equipment and Maintenance (continued)

General Information

Materials used for repair should be suitable for use where H₂S concentrations exceed 100 ppm. In general, carbon steels having low-yield strengths and a hardness below RC-22 are suitable. The engineering staff should be consulted if any doubt exists on material specifications.

Appropriate signs should be maintained in good condition at location entrance and other locations as specified in Texas Rule 36 and NMOCD Rule 118.

All notification lists should be kept current with changes in names, telephone numbers, etc.

All shutdown devices, alarms, monitors, breathing air systems, etc., should be maintained in accordance with applicable regulations.

All personnel working in H₂S areas shall have received training on the hazards, characteristics, and properties of H₂S, and on procedures and safety equipment applicable for use in H₂S areas.

H2S Safety Equipment and Monitoring Systems

An H2S emergency response package will be maintained at locations requiring H2S monitoring. The package will contain at a minimum the following:

- 3 Fixed H2S sensors located as follows:
 - 1 on the rig floor
 - 1 at the Bell Nipple
 - 1 at the Shale Shaker or Flowline
- 1 <u>Entrance Warning Sign located at the main entrance to the location, with warning signs and colored flags to determine the current status for entry into the location.</u>
- 2 Windsocks that are clearly visible.
- 1 <u>Audible</u> warning system located on rig floor
- 2 Visual warning systems (Beacon Lights)
 - 1 Located at the rig floor
 - 1 Located in the mud mixing room

Note: All alarms (audible and visual) should be set to alarm at 10 ppm.

- 2 Briefing areas clearly marked
 - 2 SCBA's at each briefing area
 - 1- SCBA located at the Drilling Reps office

Note:

- 1. All SCBA's must be positive pressure type only!!!
- 2. All SCBA's must either be Scott or Drager brand.
- 3. All SCBA's face pieces should be <u>size large</u>, unless otherwise specified by the Drilling Supervisor.
- 5 <u>Emergency Escape Paks</u> located at Top Doghouse.

Note: Ensure provisions are included for any personnel working above rig floor in derrick.

832 630 4320

832.513.9308

Office: 432.684.5581

1 – <u>Tri or Quad gas monitor</u> located at the Drilling Reps office. This will be used to determine if the work area if safe to re-enter prior to returning to work following any alarm.

V. EMERGENCY CALL LIST:

The following is a <u>priority</u> list of personnel to contact in an emergency situation:

Supervisory Personnel Office No. Cellphone Drilling Supt. (Unconventional) Scott Nicholson 432 688 9065 432.230.8010 Field Superintendents: Clint Case 432.688.6878 940.231.2839 Safety Support: **Matt Oster** 830.583.1245 601.540.6988 Ryan Vaccarella 985.217.7594 NA Supt Operations-SEMN/Shale Mike Neuschafer 432.688.6834 713.419.9919 MCBU Safety Coordinator

432.688.6860

832.486.6191

EMERGENCY CALL LIST: State Officials

Regulatory Agencies

Texas Railroad Commission (District 8)

Midland, Texas

James Buzan

Seth Crissman

Manger GCBU/MCBU D & C

New Mexico Oil Conservation Commission Office: 575.393.6161

P. O. Box 1980

Hobbs, New Mexico 88240-1980

Office: 575.234.5972

Fax: 575.885.9264

Bureau of Land Mngt.

Carlsbad Field Office 620 E. Greene St. Carlsbad, NM 88220

EMERGENCY CALL LIST: Local Officials

Refer to the <u>Location Information Sheet</u>
Note: The LIS should include any area residents (i.e. rancher's house, etc)

VI. Public Media Relations

The **Public Information Officer** becomes the ConocoPhillips on-scene contact (once designated by the Phillips On-Scene Incident Commander).

Confers with Houston Office's Human Relations Representative, who is responsible for assisting in the coordination of local public relations duties.

Answer media questions honestly and **only with facts.** do not speculate about the cause, amount of damage, or the potential impact of the incident of the community, company, employees, or environment. (This information will be formally determined in the incident investigation.)

If you are comfortable answering a question or if you are unsure of the answer, use terms such as the following:

- "I do not know. I will try to find out."
- I am not qualified to answer that question, but I will try to find someone who can."
- "It is under investigation."

Note:

Do Not Say "No Comment." (This implies a cover-up.)

Do Not Disclose Names of Injured or Dead! Confer with the Houston Office's Human Relations Representative, who is responsible for providing that information.

VII. Public Notification/Evacuation

Alert and/or Evacuate People within the Exposure Area

1. <u>Public Notification</u> – If the escape of gas could result in a hazard to area residents, the general public, or employees, the person <u>first</u> observing the leak should take <u>immediate</u> steps to cause notification of any nearby residents. The avoidance of injury or loss of life should be of prime consideration and given top priority in all cases. If the incident is of such magnitude, or at such location as to create a hazardous situation, local authorities will be requested to assist in the evacuation and roadblocks of the designated area until the situation can be returned to normal.

Note: Bilingual employees may be needed to assist in notification of residents.

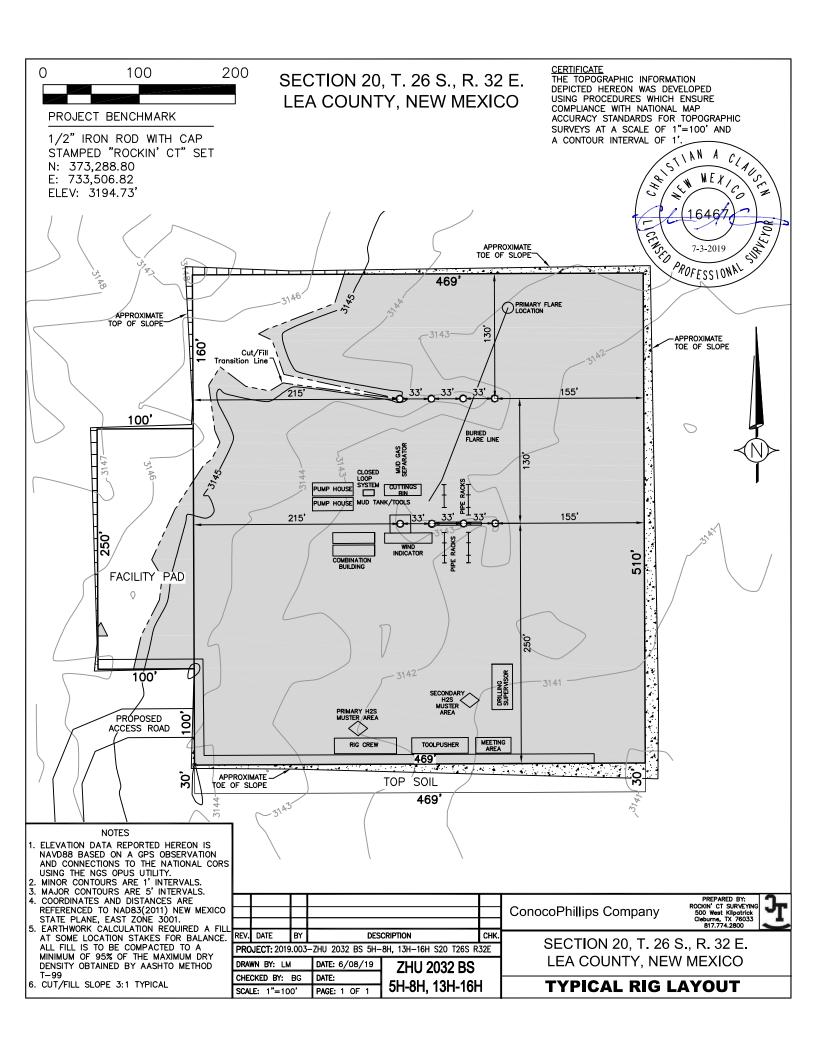
2. <u>Evacuation Procedures</u> – Evacuation will proceed upwind from the source of the release of H₂S. Extreme caution should be exercised in order to avoid any depressions or low-lying areas in the terrain. The public area within the radius of exposure should be evacuated in a southwesterly and southeasterly direction so as to avoid the prevailing southern wind direction.

Roadblocks and the staging area should be established as necessary for current wind conditions.

Note: In all situations, consideration should be given to wind direction and weather conditions. H₂S is heavier than air and can settle in low spots. Shifts in wind direction can also change the location of possible hazardous areas.

VIII. FORMS & REPORTS

- I. Incident Log
- II. Preliminary Emergency Information Sheet
- III. Emergency Drill Report
- IV. Onshore Hazardous Material Spill/Release Report Form
- V. Immediate Report of Occupational Injury or Illness Report of Accident-Public Contractor Report of Loss or Damage to Company Property Report of Automotive Incident



ConocoPhillips MCBU - Permian-Panhandle Gold Data

Planning - NM East State Zone - 3001 ZIA HILLS 2032 BS 8H ZIA HILLS 2032 BS 8H

ZIA HILLS 2032 BS 8H

Plan: ZIA HILLS 2032 BS 8H_WP1

Standard Planning Report

03 July, 2019

Planning Report

Database: EDT 14 Central Planning

Company: ConocoPhillips MCBU - Permian-Panhandle

Gold Data

Planning - NM East State Zone - 3001

 Site:
 ZIA HILLS 2032 BS 8H

 Well:
 ZIA HILLS 2032 BS 8H

 Wellbore:
 ZIA HILLS 2032 BS 8H

 Design:
 ZIA HILLS 2032 BS 8H WP1

Local Co-ordinate Reference:

TVD Reference:

MD Reference: North Reference:

Survey Calculation Method:

Site ZIA HILLS 2032 BS 8H

RKB @ 3171.25ft

RKB @ 3171.25ft

Grid

Minimum Curvature

Project Planning - NM East State Zone - 3001, Permian Basin - New Mexico - East/South East, Planning Project for Permian wells in NM

Map System: Geo Datum:

Map Zone:

Site

Project:

US State Plane 1927 (Exact solution)

0.00 ft

2.00 ft

N

NAD 1927 (NADCON CONUS)

NAD 1927 (I

New Mexico East 3001

System Datum:

Mean Sea Level

Using geodetic scale factor

ZIA HILLS 2032 BS 8H

Site Position:
From: Map

Northing: Easting: Slot Radius: 374,496.088 usft 698,727.590 usft 13-3/16 " Latitude: Longitude: Grid Convergence: 32° 1' 40.738 N 103° 41' 31.476 W

0.34 °

Well ZIA HILLS 2032 BS 8H

Well Position

Position Uncertainty:

Position Uncertainty

+N/-S 0.00 ft **+E/-W** 0.00 ft

Northing: Easting: Wellhead Elevation: 374,496.088 usft 698,727.590 usft Latitude: Longitude: 32° 1' 40.738 N 103° 41' 31.476 W

Ground Level: 3,145.25 ft

Wellbore ZIA HILLS 2032 BS 8H

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

 BGGM2018
 2/25/2019
 6.90
 59.78
 47,666.98012292

Design ZIA HILLS 2032 BS 8H WP1

Audit Notes:

Version:

Phase:

PLAN

Tie On Depth:

0.00

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

 0.00
 0.00
 0.00
 0.00
 6.45

Plan Survey Tool Program

Date 7/3/2019

Depth From Depth To (ft) (ft)

0.00

(ft) Survey (Wellbore)

Tool Name

Remarks

1,200.00 ZIA HILLS 2032 BS 8H_WP1 (ZI NS-GYRO-MS

North sensing gyrocompass

2 1,200.00

17,137.58 ZIA HILLS 2032 BS 8H_WP1 (ZI MWD+IFR1+MS CoP

Fixed:v2:Eagleford, crustal

7/3/2019 1:45:48PM Page 2 COMPASS 5000.14 Build 85

Planning Report

Database: Company:

EDT 14 Central Planning ConocoPhillips MCBU - Permian-Panhandle

Gold Data

Planning - NM East State Zone - 3001 Project:

ZIA HILLS 2032 BS 8H Site: Well: ZIA HILLS 2032 BS 8H Wellbore: ZIA HILLS 2032 BS 8H Design: ZIA HILLS 2032 BS 8H_WP1 Local Co-ordinate Reference:

TVD Reference:

MD Reference: North Reference:

Survey Calculation Method:

Site ZIA HILLS 2032 BS 8H

RKB @ 3171.25ft

RKB @ 3171.25ft

Grid

Minimum Curvature

| Plan Section | s | | | | | | | | | |
|---------------------------|--------------------|----------------|---------------------------|---------------|---------------|-----------------------------|----------------------------|---------------------------|------------|-------------------|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) | TFO (°) | Target |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 2,000.00 | 0.00 | 0.00 | 2,000.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 2,775.28 | 11.63 | 82.67 | 2,769.97 | 10.01 | 77.77 | 1.50 | 1.50 | 0.00 | 82.67 | |
| 6,692.69 | 11.63 | 82.67 | 6,606.96 | 110.80 | 860.97 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 7,467.97 | 0.00 | 0.00 | 7,376.93 | 120.80 | 938.74 | 1.50 | -1.50 | 0.00 | 180.00 | |
| 8,867.97 | 0.00 | 0.00 | 8,776.93 | 120.80 | 938.74 | 0.00 | 0.00 | 0.00 | 0.00 | ZIA HILLS 20 FEDE |
| 8,867.98 | 0.00 | 0.00 | 8,776.94 | 120.80 | 938.74 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 9,992.98 | 90.00 | 359.73 | 9,493.14 | 836.99 | 935.36 | 8.00 | 8.00 | 0.00 | 359.73 | |
| 17,137.58 | 90.00 | 359.73 | 9,493.14 | 7,981.51 | 901.62 | 0.00 | 0.00 | 0.00 | 0.00 | ZIA HILLS 20 FEDE |

| Planned Survey | | | | | | | | | |
|---------------------------|--------------------|----------------|---------------------------|---------------|---------------|-----------------------------|-----------------------------|----------------------------|---------------------------|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,000.00 | 0.00 | 0.00 | 2,000.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,775.28 | 11.63 | 82.67 | 2,769.97 | 10.01 | 77.77 | 18.67 | 1.50 | 1.50 | 0.00 |
| 6,692.69 | 11.63 | 82.67 | 6,606.96 | 110.80 | 860.97 | 206.74 | 0.00 | 0.00 | 0.00 |
| 7,467.97 | 0.00 | 0.00 | 7,376.93 | 120.80 | 938.74 | 225.41 | 1.50 | -1.50 | 0.00 |
| 8,867.97 | 0.00 | 0.00 | 8,776.93 | 120.80 | 938.74 | 225.41 | 0.00 | 0.00 | 0.00 |
| 8,867.98 | 0.00 | 0.00 | 8,776.94 | 120.80 | 938.74 | 225.41 | 0.00 | 0.00 | 0.00 |
| 9,992.98 | 90.00 | 359.73 | 9,493.14 | 836.99 | 935.36 | 936.70 | 8.00 | 8.00 | 0.00 |
| 17,137.58 | 90.00 | 359.73 | 9,493.14 | 7,981.51 | 901.62 | 8,032.27 | 0.00 | 0.00 | 0.00 |

| Design Targets | | | | | | | | | |
|--|------------------|-----------------|-------------------------|--------------------------|-----------------------|-----------------------------|-------------------|-----------------|-------------------|
| Target Name - hit/miss target - Shape | Dip Angle (°) | Dip Dir. (°) | TVD (ft) | +N/-S (ft) | +E/-W (ft) | Northing (usft) | Easting (usft) | Latitude | Longitude |
| ZIA HILLS 20 FEDER - plan hits target of Point | | 0.00 | 8,776.93 | 120.80 | 938.74 | 374,616.887 | 699,666.285 | 32° 1' 41.878 N | 103° 41' 20.564 W |
| ZIA HILLS 20 FEDER - plan misses targ - Point | | | 9,493.13 7137.58ft M | 7,981.51 D (9493.14 T | 901.62 VD, 7981.51 | 382,477.216 N, 901.62 E) | 699,629.171 | 32° 2' 59.666 N | 103° 41' 20.450 W |
| ZIA HILLS 20 FEDER - plan misses targ - Point | | | 9,493.13 '137.58ft M | 7,981.51 D (9493.14 T | 901.62 VD, 7981.51 | 382,477.216 N, 901.62 E) | 699,629.171 | 32° 2' 59.666 N | 103° 41' 20.450 W |

| Casing Points | | | | | | | |
|---------------|---------------------------|---------------------------|---------|------|---------------------------|-------------------------|--|
| | Measured Depth (ft) | Vertical Depth (ft) | | Name | Casing Diameter (") | Hole Diameter (") | |
| | 1,200.00 | 1,200.00 | 13 3/8" | | 13-3/8 | 17-1/2 | |
| | 10,087.00 | 9,493.14 | 9 5/8" | | 9-5/8 | 12-1/4 | |
| | 17,214.00 | | 5 1/2" | | 5-1/2 | 8-1/2 | |
| | | | | | | | |

Planning Report

Database:

EDT 14 Central Planning ConocoPhillips MCBU - Permian-Panhandle Company:

Gold Data

Planning - NM East State Zone - 3001 Project:

ZIA HILLS 2032 BS 8H Site: Well: ZIA HILLS 2032 BS 8H Wellbore: ZIA HILLS 2032 BS 8H Design: ZIA HILLS 2032 BS 8H_WP1 Local Co-ordinate Reference:

TVD Reference:

MD Reference: North Reference:

Survey Calculation Method:

Site ZIA HILLS 2032 BS 8H

RKB @ 3171.25ft

RKB @ 3171.25ft

Grid

Minimum Curvature

WELL PLAN SUMMARY

1280 Extended Reach Single Lateral

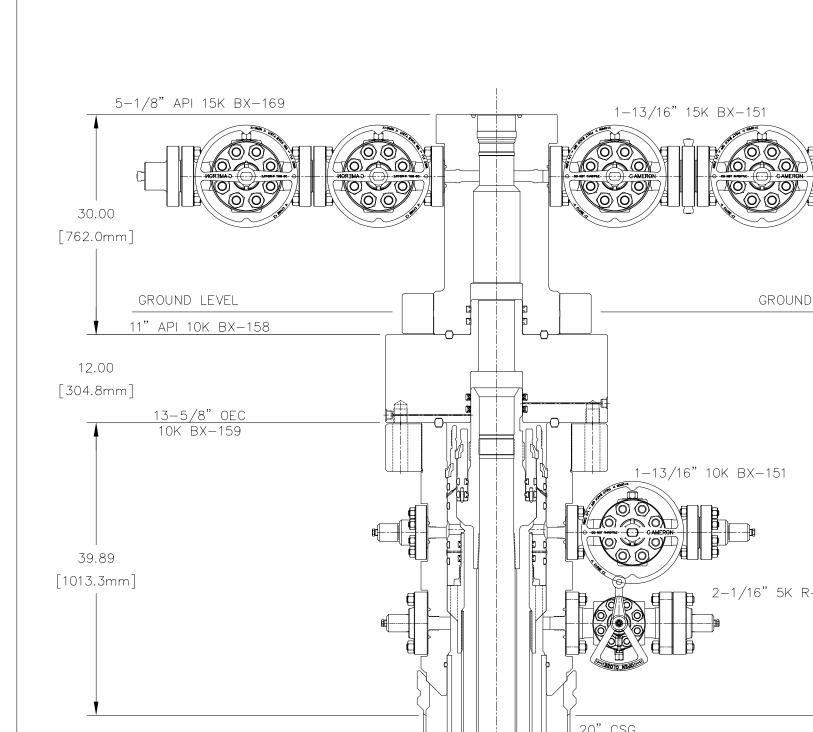
COUNTY,STATE: Lea, Co, NM

Date: Apr 21, 2020 Version: 1

AFE: WAF,OND.

Prepared by: M. Callahan

WELL: ZHU 2032 BS 8H API No.: TRRC Permit: Drilling Network No.: SURFACE LOC: Sec 20 T26S R32E Invoice Handler ID: VENNECP 2640' FSL 1225' FEL BH LOC: Sec 17 T26S R32E 330' FEL COST ESTIMATE
DRILLING BLM Permit **ELEVATIONS:** 3,143.1 40.74" N COMPLETION GL WH Coord.: LAT 103° 41' (NAD-27) LON **FACILITIES** KB +30.5 31.48" W FORMATION TOP: SUBSEA TVD <u>Objective</u>
This well is to be drilled with safety and protection of the environment as the primary objectives. Quaternary Fill Base of Fresh Water 3,182 0 -3/8" 300 Fresh Wate Rustler 1,174 2.012 Fresh Wate 1,344 Salt Top of Salt 1,842 he objective is to drill a 1280 single lateral well in the Bone Springs formation and completed with 5-1/2"cemente Castille 2,334 Salt Delaware Base of Salt 4.331 (1.145)Gas / Oil Cherry Canyon 5 254 (2.069) Notes 6.785 (3.599)Gas / Oil Brushy Canyon 8,175 (4,990) Gas / Oil Bone Springs .) Refer to drilling procedure for additional detail and information. (5.487) The primary regulatory agency is the BLM.
 Surface: 2" max, 1"/ 100", LIS; svy every 500'
 Int: 90" max, 8"/ 100", svy every 90' (svy every 30' in build and drop, 30' in curve)
 Losses to be expected in Cherry and Brushy Canyon formations. Overpressure may be encountered throughout Avalon 8.672 Gas / Oil Bone Springs 1st Sand 9,332 (6,147) Gas / Oil 10.057 Bone Springs 2nd Sand (6.872)Gas / Oil Bone Springs 3rd Carb 10,542 (7,357)Gas / Oil Wolfcamp 11,557 (8.372)Gas / Oil 12-1/4 5/8" Goals Have no lost time or recordable accidents. Have no spills or adverse environmental impact. Have no stuck pipe incidents. Avoid lost circulation incidents Maintain well control and follow ConocoPhillips well control policy. Obtain good mud log data. Deliver usable wellbore to production department. CONTACTS Office Property Cell Drilling Engineer: Mike Callahan 832-486-2480 907-231-2176 TARGET 17,208 9.493 Gas / Oil 9 5/8 in shoe 10088 8' MD Formation Dip Rate: est 90.1° (up dip) PBTD 17,208 Geologist: Josh Day 281-206-5620 423-512-0347 Gas / Oil Onsite Drilling Rep.: Greg Rivera 432-309-9007 Manny Castillo 830-583-4828 956-229-1393 Estimated BH Static Temperature (°F): 165 Field Drilling Supt. James Taylor 432-215-7079 Patrick Wellman Max. Anticipated BH Pressure: 0.520 psi/ft 4.936 psi 10. ppg Troy McGinn 832-486-2575 346-242-4551 Max Anticipated Surface Pressure 1.515 ps DRILLING FLUID: ΥP Type Interval Density Vis PV LGS NaC Remarks pН FL сР 1-5 % **by vol** < 5.0 (MD) Surface - 1,224 sec/qt 28-50 #/100ft2 mL NC ppb sol 10,000 **рр**д 8.6 2-6 Rig Tanks Fresh Water 7.5-8.5 Surface: Intermediate 1: Brine 1224' - 10089' 9.5 28-50 1-5 2-6 7.5-8.5 NC < 5.0 150,000 Rig Tanks 400 - 00 Rig Tanks Production: OBM 10089' - 17208 10.5 50-70 18-25 8-14 9.5-10 < 8 < 8.0 Reference Drilling Fluids Program CASING: BTM (MD) TOP (MD) Hole Length Size Wt Grade Connection 13 3/8 54.50 Minimum - COP Class 3 Well Control Requirements Surface 13-5/8"x10M psi Rams / 4-1/16"x10M psi Manifold Rotating Head, Annular Preventer, Pipe Ram, Blind Ram, Intermediate 12_1//" 10 080 10.058 9 5/8 40.00 1.80-IC RTC 31' TXP 20.00 P-110 ICY 8-1/2" 17,208 5 1/2 Production: 17,178 Mud Cross (Choke & Kill Valves), Pipe Ram Waste Closed loop cuttings disposal system with haul off to Handling approved facility. CENTRALIZATION: Mud Pit: Float Based Electronic PVT with Flow Sensor and Gravity Trip Tank, Alarms +/- 10 BBLS Surface Casing 1 per 4 joints. Shoe joint 1 per joint from FC to 7,800'. 1 per 2 joints 7,800' to 2,300'. 1 per 4 joints 2,300' to surface. Rigid body 1 per 2 joints TD to Int Shoe. Bow Spring 1 per 2 joints Int shoe to 100' above KOP. 1 per 4 joints to surface Intermediate Casing We head: 13-5/8" x 10M psi (Casing Head - "A" Section) Production Liner CEMENT Tail COMMENTS Lead 1000 sx Control Set 'C' + adds 660 sx Type 'III' + adds Surface: 17-1/2"X13-3/8 20 bbl FW Cemented to surface w/ 200%XS 1.224 11.5ppg 2.66 ft3/sk 320 sx WBL + adds 13ppg 1.34 ft3/sk Add FiberBlock Intermediate: 12-1/4"X9-5/8" 10.089 9.493 40 bbl Invert Spacer 470 sx Thermal 35 + adds TOC 500' into previous casing shoe 11.5ppg 1.77 ft3/sk 15ppg 1.63 ft3/sk w/ 70%L / 30%T XS calc'd on 12.25 Add FiberBlock Production: 8-1/2"X5-1/2" 17,208 9,493 40 bbl Visweep 1996 sx 1:1:0 'Poz:Lafarge G' + 20% Silica Cemented to TOL w/ 10% XS calc'd Flour + 8% Silica Fume + adds on 8.5" hole, Displ. = volume to floa collar +/- half shoe track 15.6 ppg 1.19ft3/sk Cementing Recommendation DIRECTIONAL PLAN: SEC-T-R Section Line Distance MD INC Comments (ft) 3,600' (deg) (deg) (ft) 3,600 (ft) (ft) (°/100') (ft) 0 Build @ 1.5°/100' Sec 20 T26S R32E 0 End Build @ 12° Drop @ 1.5°/100' 4,386' 7,978' 12 87 4,381¹ 7,896¹ 5 47 81 1.5 13 Sec 20 T26S R32E Sec 20 T26S R32E 2645' FSL 1145' FEL 12 87 813 0.0 132 2687' FSL 412' FEL Complete Drop, Hold to KOP 8 764 0 0 8.677 51 894 1.5 145 Sec 20 T26S R32F 2691' FSI 331' FEL 51 145 Sec 20 T26S R32E KOP Build @ 8°/100' 8,864 894 2691' FSL 331' FEL 8,777 Curve LP Toe Sleeve 2 768 8087 889 846 9.989 90 90 360 9,493 8 857 Sec 20 T26S R32E 3408' FSL 336' FEL 0 7,931 Sec 17 T26S R32E 150' FNL 330' FEL 17,108 9,493 Toe Sleeve 1 17 158 90 n 9 493 8037 846 846 7 981 Sec 17 T26S R32E 100' FNL 330' FEL 330' FEL PBHL/TD Sec 17 T26S R32E 17,208 val below surface casing Reference Directional Plan MWD Surveys will be taken at 90' inte 30° while building curve, and every 90° while drilling lateral. FORMATION EVALUATION: Mud Logging -One-Man: First surface hole to TD. First intermediate hole to TD Correlation Well: Mud Logaina -Two-Man: Intermediate Casing Point to TD PEX GR/CBL/USIT Open Hole -None NA Cased Hole -MWD -GR 200' above KOP to TD OUR WORK IS NEVER SO URGENT OR IMPORTANT THAT WE CANNOT TAKE THE TIME TO DO IT SAFELY!





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

PWD Data Report

Operator Name: CONOCOPHILLIPS COMPANY

Well Name: ZHU 2032 BS Well Number: 8H

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:

Decribe 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: CONOCOPHILLIPS COMPANY

Well Name: ZHU 2032 BS Well Number: 8H

Lined pit Monitor description:

Lined pit Monitor attachment:

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

Is the reclamation bond a rider under the BLM bond?

Lined pit bond number:

Lined pit bond amount:

Additional bond information attachment:

Section 3 - Unlined Pits

Would you like to utilize Unlined Pit PWD options? NO

Produced Water Disposal (PWD) Location:

PWD disturbance (acres): PWD surface owner:

Unlined pit PWD on or off channel:

Unlined pit PWD discharge volume (bbl/day):

Unlined pit specifications:

Precipitated solids disposal:

Decribe precipitated solids disposal:

Precipitated solids disposal permit:

Unlined pit precipitated solids disposal schedule:

Unlined pit precipitated solids disposal schedule attachment:

Unlined pit reclamation description:

Unlined pit reclamation attachment:

Unlined pit Monitor description:

Unlined pit Monitor attachment:

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

Beneficial use user confirmation:

Estimated depth of the shallowest aquifer (feet):

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

TDS lab results:

Geologic and hydrologic evidence:

State authorization:

Unlined Produced Water Pit Estimated percolation:

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

Operator Name: CONOCOPHILLIPS COMPANY

Well Name: ZHU 2032 BS Well Number: 8H

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):

Operator Name: CONOCOPHILLIPS COMPANY

Well Name: ZHU 2032 BS Well Number: 8H

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

06/09/2020

APD ID: 10400043596

Operator Name: CONOCOPHILLIPS COMPANY

Well Name: ZHU 2032 BS

Well Type: OIL WELL

Submission Date: 08/07/2019

Highlighted data reflects the most recent changes

Show Final Text

Well Number: 8H

Well Work Type: Drill

Bond Information

Federal/Indian APD: FED

BLM Bond number: ES0085

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:

District I

1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 District III

1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170 District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462 State of New Mexico

Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr. Santa Fe, NM 87505

OCD – HOBBS 06/09/2020 RECEIVED Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

| 30-025-47305 | ² Pool Code 98009 | l | | | |
|---|---------------------------------|----------------------------|-------------------|--|--|
| ⁴ Property Code 328111 | | ⁵ Property Name | | | |
| 320111 | ZHU 2 | 2032 BS | 8H | | |
| ⁷ OGRID No. | 8 OI | ⁸ Operator Name | | | |
| 217817 | ConocoPt | nillips Company | 3,143.2' (NAVD88) | | |

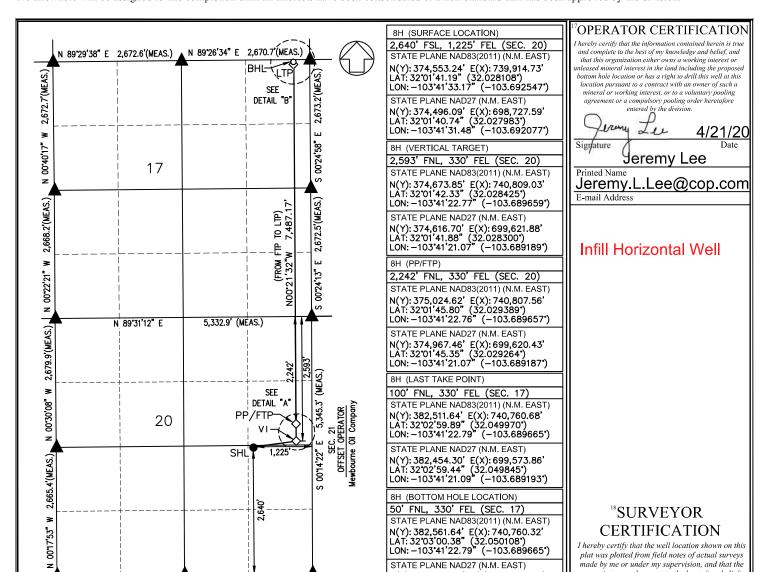
¹⁰ Surface Location

| - | | | | | | · | | | | |
|---|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|------------|
| | I | 20 | 26 S | 32 E | | 2,640' | SOUTH | 1,225' | EAST | LEA COUNTY |
| | UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |

Bottom Hole Location If Different From Surface

| | | | D C | ttom Ho | ie Location i | 1 Different 110 | III Surface | | |
|-----------------|------------------------|-------------|---------------|------------|---------------|------------------|---------------|----------------|------------|
| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
| Α | 17 | 26 S | 32 E | | 50' | NORTH | 330' | EAST | LEA COUNTY |
| Dedicated Acres | ¹³ Joint or | Infill 14 (| Consolidation | Code 15 Or | der No. | | • | | |

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



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

State of New Mexico Energy, Minerals and Natural Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Separtment

OCD - HOBBS
06|09|2020
06|09|2020
RECEIVED

Submit Original to Appropriate District Office

GAS CAPTURE PLAN

| ☑ Original | Operator & OGRID No.: ConocoPhillips Company/ 21/81/ |
|-----------------------|--|
| ☐ Amended | Date: 6/19/19 |
| Reason for Amendment: | |
| | |
| | |

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

Note: A C-129 must be submitted and approved prior to exceeding 60 days allowed by Rule 19.15.18.12.A

Well(s)/Production Facility – Name of facility

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

| Well Name | API | Well Location (ULSTR) | Footages | Expected MCF/D | Flared or Vented | Comments |
|----------------------------|------------|-----------------------|----------|----------------|---------------------|------------------------------------|
| ZHU 2032 BS 5H, 6H, 7H, 8H | Pending | Sec. 20, T26S, 32E | Various | | Flared | Flaring is expected to be sporadic |
| #008H 30 | 0-025-4730 | 5 | | | | |

Gathering System and Pipeline Notification

| Well(s) will be connected to a production facility after flowback operations are complete, if gas transporter system is | |
|--|-----|
| place. The gas produced from production facility is dedicated toEnterprise _ and will be connected toEnterprise | : |
| low/high pressure gathering system located in Lea County, New Mexico. It will require 568' of pipeline | to |
| connect the facility to low/high pressure gathering system. Conocophillips provides (periodically) to Enterprise a drilli | ng, |
| completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In additi | on, |
| Enterprise and Conocophillips have periodic conference calls to discuss changes to drilling and completion schedules. Gas fr | om |
| these wells will be processed at <u>Enterprise</u> Processing Plant located in <u>Oral</u> , <u>Texas</u> <u>Reeves County</u> , | |
| Texas. The actual flow of the gas will be based on compression operating parameters and gathering system pressures. | |

Flowback Strategy

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

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

Alternatives to Reduce Flaring

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

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