Form 3160-3 FORM APPROVED OMB No. 1004-0137 (June 2015) Expires: January 31, 2018 **UNITED STATES** DEPARTMENT OF THE INTERIOR 5. Lease Serial No. BUREAU OF LAND MANAGEMENT APPLICATION FOR PERMIT TO DRILL OR REENTER 6. If Indian, Allotee or Tribe Name 7. If Unit or CA Agreement, Name and No. DRILL REENTER 1a. Type of work: 1b. Type of Well: Gas Well Oil Well Other 8. Lease Name and Well No. 1c. Type of Completion: Hydraulic Fracturing Single Zone Multiple Zone 9. API Well No. 30 015 48170 2. Name of Operator 3a. Address 3b. Phone No. (include area code) 10. Field and Pool, or Exploratory 4. Location of Well (Report location clearly and in accordance with any State requirements.*) 11. Sec., T. R. M. or Blk. and Survey or Area At surface At proposed prod. zone 14. Distance in miles and direction from nearest town or post office* 12. County or Parish 13. State 15. Distance from proposed* 16. No of acres in lease 17. Spacing Unit dedicated to this well location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 18. Distance from proposed location* 19. Proposed Depth 20. BLM/BIA Bond No. in file to nearest well, drilling, completed, applied for, on this lease, ft. 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 22. Approximate date work will start* 23. Estimated duration 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 2. A Drilling Plan. Item 20 above). 3. A Surface Use Plan (if the location is on National Forest System Lands, the 5. Operator certification. 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 25. Signature Name (Printed/Typed) Date Title Approved by (Signature) Date Name (Printed/Typed) Title Office Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. Conditions of approval, if any, are attached. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction

APPROVED WITH CONDITIONS

(Continued on page 2)

*(Instructions on page 2)

Entered KMS - NMOCD

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 Fao: (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, New Mexico 87505

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

□AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

Property Name	Well Number
OCHOA 8703 FEDERAL COM	IH
Operator Name BTA OIL PRODUCERS, LLC	Elevation 3017'

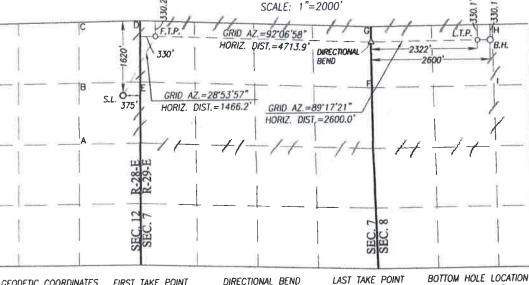
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Н	12	23-S	28-E		1620	NORTH	375	EAST	EDDY

Bottom Hole Location If Different From Surface

				Down III		I state are 1	F . C	C-uav-ation I	County
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
С	8	23-S	29-E		330.1	NORTH	2600	WEST	EDDY
Dedicated Acres	Joint or	Infill C	onsolidation C	ode Ord	er No.				
474.11									

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



OPERATOR CERTIFICATION I hereby certify that the information herein is true and

complete to the best of my knowledge and belief, and that this organization either owns a working interest or unlessed mineral interest in the land including the proposed bottom bole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order beretafore entered by the division.

6/13/2019 an Signature

Sammy Hajar Printed Name

SHAJAR@BTAOIL.COM E-mail Address

GEODETIC COORDINATES NAD 27 NME SURFACE LOCATION Y= 481322.6 N X = 592860.4 ELAT.=32.322914' N LONG.=104.032721° W

GEODETIC COORDINATES NAD 83 NME SURFACE LOCATION Y= 481382.2 N X= 634043.1 E LAT = 32.323035° N LONG.=104.033215' W

FIRST TAKE POINT NAD 27 NME Y= 482605.9 N X = 593568.8 ELAT. = 32.326436° N LONG. = 104.030416° W

FIRST TAKE POINT NAD 83 NME Y= 482665.5 N X= 634751.5 E LAT. = 32.326557° N LONG. = 104.030910° W

DIRECTIONAL BEND NAD 27 NME Y= 482431.8 N X= 598278.4 E LAT. = 32.325920° N LONG. = 104.015171° W

> DIRECTIONAL BEND NAD 83 NME Y= 482491.5 N X= 639461.1 E LAT. = 32.326041° N

LAST TAKE POINT NAD 83 NME Y = 482520.3 NX= 641782.5 E LAT.=32.326101° N LONG. = 104.015665" W LONG. = 104.008149" W

NAD 27 NME

Y= 482460.6 N

X = 600599.7 E

LAT.=32.325980° N

LONG. = 104.007656° W

X= 600877.6 E LAT. = 32.325987° N LONG = 104.006756° W BOTTOM HOLE LOCATION NAD 83 NME

NAD 27 NME

Y= 482464.0 N

Y = 482523.8 NX = 642060.4 ELAT. = 32.326109" N LONG. = 104.007250° W

CORNER COORDINATES TABLE NAD 83 NME

CORNER COORDINATES TABLE NAD 27 NME 480331.5 N, X= 633073.1 E A - Y= 480271.9 N, X= 591890.3 E B - Y= 481659.3 N, X= 633077.5 E - Y= 481599.7 N, X= 591894.8 E C - Y = 482987.3 N, X =633081.8 E - Y= 482927.6 N, X= 591899.2 E D - Y = 483007.9 N, X = 634422.5 E- Y= 482948.2 N, X= 593239.8 E E - Y= 481675.5 N, X= 634418.9 E - Y= 481615.9 N, X= 593236.2 E F - Y= 481492.0 N, X= 639475.6 E - Y= 481432.3 N. X= 598292.8 E G - Y = 482821.6 N, X = 639456.4 E- Y= 482761.9 N, X= 598273.6 E H - Y = 482854.4 N, X = 642104.4Y = 482794.6 N, X = 600921.6 E1 - Y= 481525.1 N, X= 642136.7 E 481465.4 N, X= 600953.9 E

SURVEYOR CERTIFICATION

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

FEBRUARY 27, 2019

Date of Survey Signature & Scal of Professional Surveyor: ONALB

EN MET

Gary G Eidson Ronald J Eidson Certificiae Sumber 12641 3239 JWSC W O : 19 11 0281 LSL

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: | BTA Oil Producers LLC

LEASE NO.: | NMNM103879

WELL NAME & NO.: Ochoa 8703 Federal Com 1H

SURFACE HOLE FOOTAGE: 1620'/N & 375'/E **BOTTOM HOLE FOOTAGE** 330'/N & 2600'/W

LOCATION: Section 12, T.23 S., R.28 E., NMPM

COUNTY: Eddy County, New Mexico

COA

H2S	O Yes	• 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	▼ COM	□ 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 10-3/4 inch surface casing shall be set at approximately 500 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 fluid filled to meet BLM minimum collapse requirement.

2. The minimum required fill of cement behind the **7-5/8** 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.

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 **3000 (3M)** 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 **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 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.



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

Drilling Plan Data Report

04/19/2021

APD ID: 10400043156

Submission Date: 06/26/2019

Highlighted data reflects the most recent changes

Operator Name: BTA OIL PRODUCERS LLC Well Name: OCHOA 8703 FEDERAL COM

Well Number: 1H

Show Final Text

Well Type: OIL WELL

Well Work Type: Drill

Section 1 - Geologic Formations

Formation	E C No	Ele elle	True Vertical		1296 - 1 2	Mineral Danie and	Producing
ID 487212	Formation Name QUATERNARY	Elevation 3017	Depth 0	Depth 0	Lithologies ALLUVIUM	Mineral Resources NONE	Formation N
107212	QO/(12/(W/(()	0011			/ LEG VIOIN	None	
487226	RUSTLER	2740	277	277	ANHYDRITE	NONE	N
487215	TOP SALT	1200	1817	1817		NONE	N
487217	BASE OF SALT	505	2512	2512		NONE	N
487216	DELAWARE	255	2762	2762		NATURAL GAS, OIL	N
487229	BELL CANYON	225	2792	2792		NATURAL GAS, OIL	N
487230	CHERRY CANYON	-750	3767	3767		NATURAL GAS, OIL	N
487222	BRUSHY CANYON	-1760	4777	4777		NATURAL GAS, OIL	N
487227	BONE SPRING LIME	-3325	6342	6342		NATURAL GAS, OIL	N
487223	FIRST BONE SPRING SAND	-4400	7417	7417		NATURAL GAS, OIL	N
487231	BONE SPRING 2ND	-5150	8167	8167		NATURAL GAS, OIL	Y
487644	BONE SPRING 3RD	-6345	9362	9362		NATURAL GAS, OIL	N
487645	WOLFCAMP	-6670	9687	9687		NATURAL GAS, OIL	Y

Section 2 - Blowout Prevention

Well Name: OCHOA 8703 FEDERAL COM Well Number: 1H

Pressure Rating (PSI): 5M Rating Depth: 11000

Equipment: The blowout preventer equipment (BOP) shown in Exhibit A will consist of a (5M system) double ram type (5,000 psi WP) preventer and a bag-type (Hydril) preventer (5000 psi WP). Both units will be hydraulically operated and the ram type preventer will be equipped with blind rams on top and 5" drill pipe rams on bottom. The BOP's will be installed on the 13-3/8" surface casing and utilized continuously until total depth is reached. A 2" kill line and 3" choke line will be incorporated in the drilling spool below the ram-type BOP. A remote kill line will be used for the 5M system as per onshore order #2. Other accessory BOP equipment will include a Kelly cock, floor safety valve, choke lines, and choke manifold having a 5,000 psi WP rating. The 5M annular will be tested as per BLM drilling Operations Order No. 2.

Requesting Variance? NO

Variance request: n/a

Testing Procedure: Pipe rams will be operated and checked each 24-hour period and each time the drill pipe is out of the hole. These functional tests will be documented on the daily driller's log. All BOP's and associated equipment will be tested as per BLM drilling Operations Order No. 2.

Choke Diagram Attachment:

Choke_Hose___Test_Chart_and_Specs_20181129153440.pdf

5M_choke_mannifold_20190211164346.pdf

BOP Diagram Attachment:

5M_BOP_diagram_20190211164555.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	14.7 5	10.75	NEW	API	N	0	500	0	500			500	J-55	40.5	ST&C	7.3	14.5	DRY	20.7	DRY	31.1
	PRODUCTI ON	6.75	5.5	NEW	API	Υ	0	9900	0	9801			9900	P- 110	20	BUTT	1.6	1.7	DRY	3.4	DRY	3.2
3	INTERMED IATE	9.87 5	7.625	NEW	API	N	0	10100	0	10000			10100	P- 110	29.7	BUTT	2	1.9	DRY	3.2	DRY	3.1
	PRODUCTI ON	6.75	5.0	NEW	API	Υ	9900	18446	9801	10532			8546	P- 110	18	BUTT	1.8	1.8	DRY	1.8	DRY	1.7

Casing Attachments

Well Name: OCHOA 8703 FEDERAL COM Well Number: 1H

Casing ID: 1 String Type: SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

ochoa_1h_casing_assumption_20190626124221.JPG

Casing ID: 2 String Type: PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

5.5_tapered_string_spec_20190626123411.jpg

Casing Design Assumptions and Worksheet(s):

ochoa_1h_casing_assumption_20190626124214.JPG

Casing ID: 3 String Type: INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

 $ochoa_1h_casing_assumption_20190626124207.JPG$

Well Name: OCHOA 8703 FEDERAL COM Well Number: 1H

Casing Attachments

Casing ID: 4 String Type: PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

5_tapered_string_spec_20190626123520.jpg

Casing Design Assumptions and Worksheet(s):

 $ochoa_1h_casing_assumption_20190626124200.JPG$

Section 4 - Cement

String Type	Lead/Tail	Stage Tool Depth	Тор МD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
PRODUCTION	Lead		0	0	0	0	0	0		n/a	n/a
PRODUCTION	Tail		8900	9900							none
PRODUCTION	Lead		0	0	0	0	0	0		n/a	n/a
PRODUCTION	Tail		9900	1844 6	905	1.27	14.8	1149. 35	10	Class H	0.1% Fluid Loss
SURFACE	Lead		0	255	160	1.8	13.5	288	100	Class C	2% CaCl2
SURFACE	Tail		255	500	200	1.34	14.8	268	100	Class C	2% CaCl2
INTERMEDIATE	Lead	2762	0	2335	375	2.19	12.7	821.2 5	50	Class C	0.5% CaCl2
INTERMEDIATE	Tail		2335	2762	150	1.33	14.8	199.5	50	Class C	1% CaCl2
INTERMEDIATE	Lead		2762	8215	515	2.64	10.5	1359. 6	15	Class H	0.5% CaCl2
INTERMEDIATE	Tail		8215	1010 0	400	1.19	15.6	476	15	Class H	1% CaCl2

Well Name: OCHOA 8703 FEDERAL COM Well Number: 1H

Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

Description of the equipment for the circulating system in accordance with Onshore Order #2:

Diagram of the equipment for the circulating system in accordance with Onshore Order #2:

Describe what will be on location to control well or mitigate other conditions: Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

Describe the mud monitoring system utilized: PVT/Pason/Visual Monitoring

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)	Н	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	500	OTHER : FW Spud	8.3	8.4							
500	1000	OTHER : DBE	9	9.4							
1000 0	1053 2	OIL-BASED MUD	11	13							

Section 6 - Test, Logging, Coring

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

Drill Stem Tests will be based on geological sample shows.

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

CBL,GR,MUDLOG

Coring operation description for the well:

None planned

Well Name: OCHOA 8703 FEDERAL COM Well Number: 1H

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 7120 Anticipated Surface Pressure: 4802.96

Anticipated Bottom Hole Temperature(F): 165

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

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards attachment:

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations plan:

H2S_Plan_20181129153648.pdf

H2S_Equipment_Schematic_20181129153733.pdf

BTA_Oil_Producers_LLC___EMERGENCY_CALL_LIST_20190205154800.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Ochoa_8703_Federal__1H_directional_plan_20190626131624.pdf

Ochoa_8703_Federal__1H_Wall_Plot_20190626131625.pdf

Ochoa_1H_Gas_Capture_Plan_20190626131641.pdf

Other proposed operations facets description:

A variance is requested for a Multi Bowl Wellhead. See the attached schematic and running procedure. *All strings will be kept 1/3 full while running.

Other proposed operations facets attachment:

Other Variance attachment:

Casing_Head_Running_Procedure_20181129153916.pdf

Multi_Bowl_Diagram__3_STRING_10_34_SOW__20190626131606.pdf



Contifech

CONTITECH RUBBER Industrial Kft.

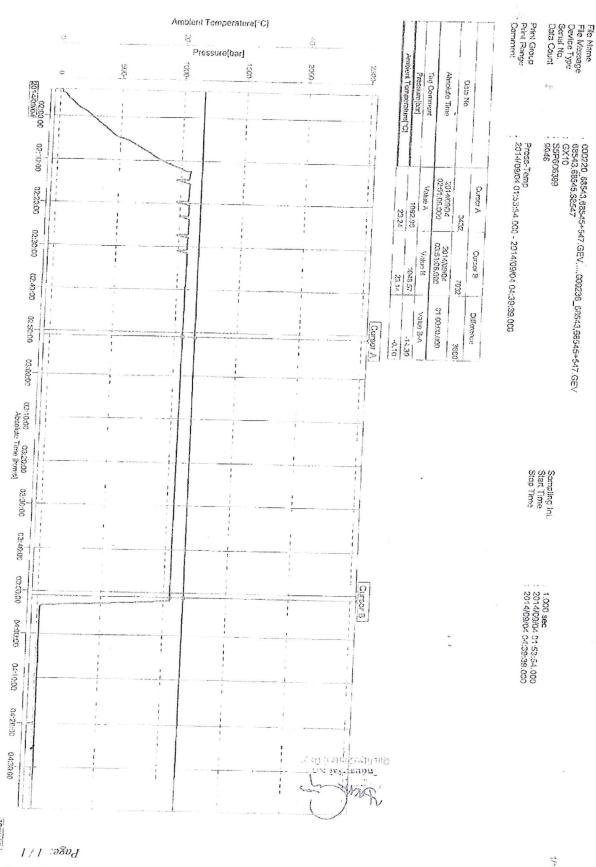
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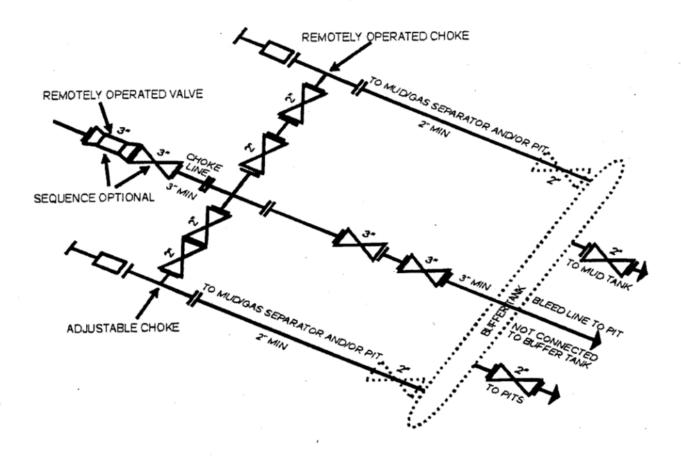
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PURCHASER:	ContiTech C	il & Marine (Corp.		P.O. N°:	e dae ske skin skinger om group is en e	4500461	753
CONTITECH ORDER N°:	539225	HOSE TYPE:	3"	ID		Choke	& Kill Hose	
HOSE SERIAL Nº:	CTUAL LE	NGTH:		7,62 m	/7,66 m	gargaga Millia Milliann a garanta Garana ya manaka waka kaka		
W.P. 68,9 MPa 1	0000 psi	T.P. 103,4	MPa	1500)() psi	Duration:	60	min.
→ 10 Min		'See attacl	hment. (1 pa	ge)			
↑ 50 MP2 COUPLINGS Typ		Code	or Mo	********	Que	namenamen a	Heal	: N IO
3" coupling with		Seri: 2574	5533		AISI		A1582N	H8672
4 1/16" 10K API Swivel F	1	2374	3333		AISI		588	
Hub			hard to be a second to the second		AISI	4130	A1199N	A1423N
Not Designed For V	Vell Testinç	j				i	API Spec	16 C
Fire Rated						Tem	perature	rate:"B"
All metal parts are flawless			Indowe was some on a some	##129204 <u>8</u> 200				
WE CERTIFY THAT THE ABOVE INSPECTED AND PRESSURE T				CORDA ESULT.	NGE WITH	THE TERM	s of the or	DER
STATEMENT OF CONFORMIN conditions and specifications of accordance with the referenced s	of the above Purci	naser Order and t	hat these its	ems/equ	ripment we	re fabricated	I inspected and	tested in
Date:	Inspector		Quality	Contro				
04. September 2014.		~	3571		indu	ack, Rubbs strial Kft, Control De		193

Contricon Ryther Industrial Kit. | Budaposti čt. 10. H: 6728 Szeged | H: 6701 P.O. Box 152 Szeged. Hungsty Phone: 158.65.365 737 | Fax: 156.62.555 736 | c-spail info@fluid contleved h: | Internet www.contlech.rutbox.nu. www.contlech.hu The Court of Csangrad County as Registry Court Registry Court No. Cg. 06.05.0522 | FILVAT No. H.I.11087208 Book care Commerciand 2rt., Budapost | 14220106-26832003



VILIVCHWENI OF QUALITY CONTROL INSPECTION AND TEST CERTIFICATE — Vo.: 1588, 1590, 1592

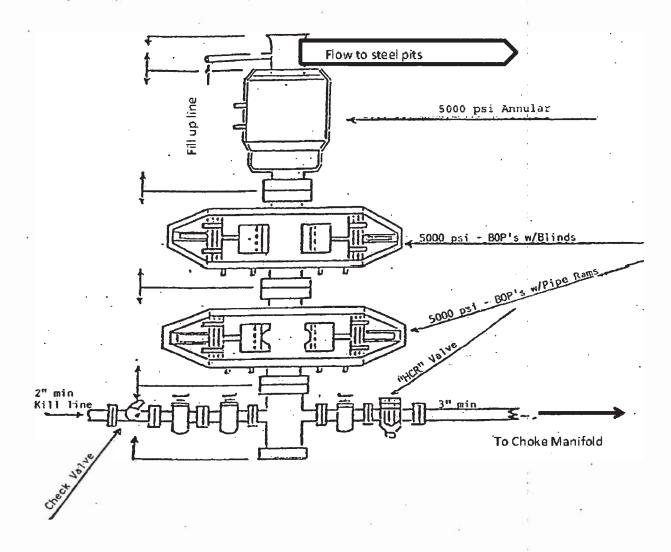


5M CHOKE MANIFOLD EQUIPMENT - CONFIGURATION OF CHOKES MAY VARY

Although not required for any of the choke manifold systems, buffer tanks are sometimes installed downstream of the choke assemblies for the purpose of manifolding the bleed lines together. When buffer tanks are employed, valves shall be installed upstream to isolate a failure or malfunction without interrupting flow control. Though not shown on 2M, 3M, 10M, OR 15M drawings, it would also be applicable to those situations.

[54 FR 39528, Sept. 27, 1989]

13-5/8" 5,000 PSI BOP



BTA OIL PRODUCERS LLC



HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

1. HYDROGEN SULFIDE TRAINING

All personnel, whether regularly assigned, contracted, or employed on an unscheduled basis, will receive training from a qualified instructor in the following areas prior to commencing drilling operations on this well:

- a. The hazards and characteristics of hydrogen sulfide (H₂S).
- b. The proper use and maintenance of personal protective equipment and life support systems.
- c. The proper use of H₂S detectors, alarms, warning systems, briefing areas, evacuation procedures, and prevailing winds.
- d. The proper techniques for first aid and rescue procedures.

In addition, supervisory personnel will be trained in the following areas:

- a. The effects of H2S on metal components. If high tensile tubulars are to be used, personnel will be trained in their special maintenance requirements.
- b. Corrective action and shut-in procedures when drilling or reworking a well and blowout prevention and well control procedures.
- c. The contents and requirements of the H₂S Drilling Operations Plan and the Public Protection Plan.

There will be an initial training session just prior to encountering a known or probable H2S zone (within 3 days or 500 feet) and weekly H2S and well control drills for all personnel in each crew. The initial training session shall include a review of the site specific H2S Drilling Operations Plan and the Public Protection Plan. This plan shall be available at the well site. All personnel will be required to carry documentation that they have received the proper training.

2. H₂S SAFETY EQUIPMENT AND SYSTEMS

Note: All H₂S safety equipment and systems will be installed, tested, and operational when drilling reaches a depth of 500 feet above, or three days prior to penetrating the first zone containing or reasonably expected to contain H2S. If H2S greater than 100 ppm is encountered in the gas stream we will shut in and install H2S equipment.

- a. Well Control Equipment:
 - Flare line.
 - Choke manifold with remotely operated choke.
 - Blind rams and pipe rams to accommodate all pipe sizes with properly sized closing unit.
 - Auxiliary equipment to include: annular preventer, mud-gas separator, rotating head.
- b. Protective equipment for essential personnel:
 - Mark II Surviveair 30-minute units located in the dog house and at briefing areas.
- c. H2S detection and monitoring equipment:

- 2 portable H2S monitor positioned on location for best coverage and response. These units have warning lights and audible sirens when H2S levels of 20 ppm are reached.
- d. Visual warning systems: Caution/Danger signs shall be posted on roads providing direct access to location. Signs will be painted a high visibility yellow with black lettering of sufficient size to be readable at a reasonable distance from the immediate location. Bilingual signs will be used, when appropriate. See example attached.
- e. Mud Program:
 The mud program has been designed to minimize the volume of H2S circulated to the surface.
- f. Metallurgy:
 All drill strings, casings, tubing, wellhead, blowout preventers, drilling spool, kill lines, choke manifold and lines, and valves shall be suitable for H2S service.
- g. Communication:
 Company vehicles equipped with cellular telephone.

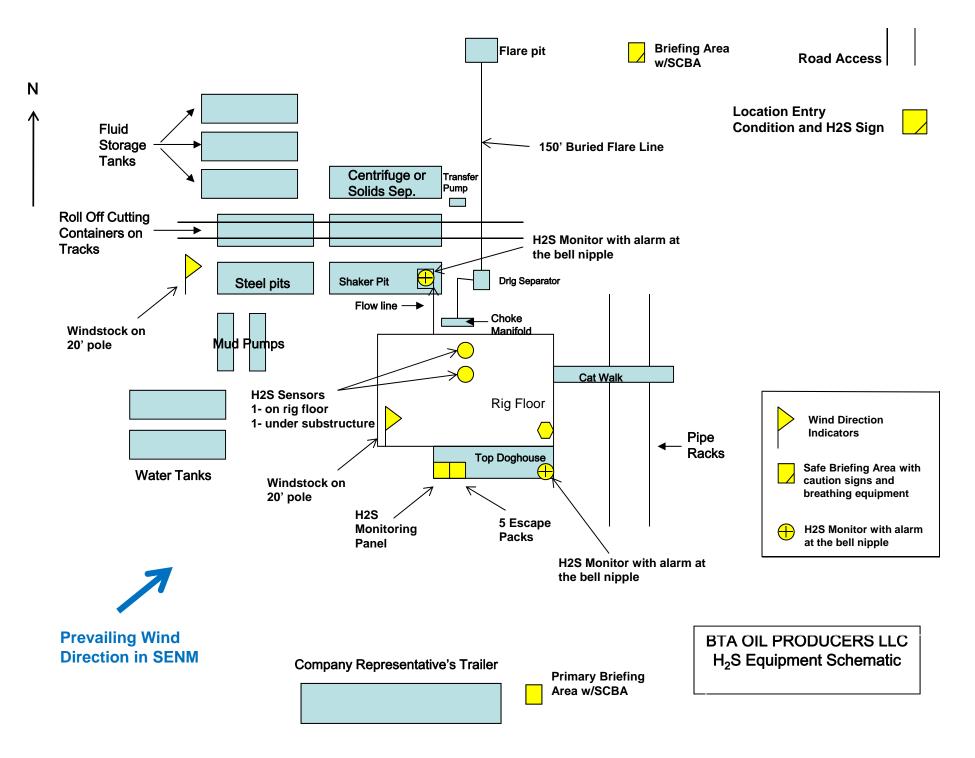
WARNING

YOU ARE ENTERING AN H₂S AREA AUTHORIZED PERSONNEL ONLY

- 1. BEARDS OR CONTACT LENSES NOT ALLOWED
- 2. HARD HATS REQUIRED
- 3. SMOKING IN DESIGNATED AREAS ONLY
- 4. BE WIND CONSCIOUS AT ALL TIMES
- 5. CK WITH BTA OIL PRODUCERS LLC FOREMAN AT MAIN OFFICE

BTA OIL PRODUCERS LLC

1-432-682-3753



EMERGENCY CALL LIST

	<u>OFFICE</u>	MOBILE
BTA Oil Producers LLC OFFICE	432-682-3753	
BEN GRIMES, Operations	432-682-3753	432-559-4309
NICK EATON, Drilling	432-682-3753	432-260-7841
TRACE WOHLFAHRT, Completions	432-682-3753	

EMERGENCY RESPONSE NUMBERS

	<u>OFFICE</u>
STATE POLICE	575-748-9718
EDDY COUNTY SHERIFF	575-746-2701
EMERGENCY MEDICAL SERVICES (AMBULANCE)	911 or 575-746-2701
EDDY COUNTY EMERGENCY MANAGEMENT (HARRY BURGESS)	575-887-9511
STATE EMERGENCY RESPONSE CENTER (SERC)	575-476-9620
CARLSBAD POLICE DEPARTMENT	575-885-2111
CARLSBAD FIRE DEPARTMENT	575-885-3125
NEW MEXICO OIL CONSERVATION DIVISION	575-748-1283
INDIAN FIRE & SAFETY	800-530-8693
HALLIBURTON SERVICES	800-844-8451

BTA Oil Producers, LLC

Eddy County, NM (NAD 83) Ochoa Ochoa #01H

Wellbore #1

Plan: Design #1

Standard Planning Report - Geographic

17 June, 2019

Planning Report - Geographic

Database: Company:

Old

BTA Oil Producers, LLC

Project: Site:

Well:

Eddy County, NM (NAD 83) Ochoa

Ochoa #01H Wellbore #1 Design #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Ochoa #01H

GL @ 3017.0usft GL @ 3017.0usft

Grid

Minimum Curvature

Design: Project

Wellbore:

Eddy County, NM (NAD 83)

Map System: Geo Datum:

Map Zone:

Well Position

US State Plane 1983 North American Datum 1983 New Mexico Eastern Zone

System Datum:

Ground Level

Using geodetic scale factor

Site Ochoa

Site Position: From:

Мар **Position Uncertainty:**

Northing: Easting: 0.0 usft Slot Radius: 481,307.00 usft 634,083.00 usft 13-3/16 "

Latitude: Longitude: **Grid Convergence:**

32° 19' 22.181 N 104° 1' 59.112 W 0.16

Ochoa #01H Well

> +N/-S +E/-W

0.0 usft 0.0 usft Northing: Easting:

481,382.00 usft 634,043.00 usft

Latitude: Longitude:

32° 19' 22.924 N 104° 1' 59.576 W

Position Uncertainty

0.0 usft

Wellhead Elevation:

Ground Level:

3,017.0 usft

Wellbore #1 Wellbore

Magnetics **Model Name** Sample Date Declination Dip Angle Field Strength (°) (°) (nT) 60.25 IGRF200510 12/31/2009 7.97 48,803.87866891

Design #1 Design

Audit Notes:

Version:

Vertical Section: Depth From (TVD)

Phase:

(usft)

0.0

PROTOTYPE +N/-S (usft)

0.0

Tie On Depth: +E/-W

(usft)

0.0

0.0

Direction (°) 81.90

Plan Survey Tool Program

Date 6/6/2019

18,445.8 Design #1 (Wellbore #1)

Depth To **Depth From** (usft)

0.0

(usft) Survey (Wellbore) **Tool Name**

Remarks

Plan Sections Measured Vertical Dogleg Build Turn +N/-S Depth Inclination Azimuth Depth +E/-W Rate Rate Rate TFO (usft) (usft) (°) (°) (usft) (usft) (°/100usft) (°/100usft) (°/100usft) **Target** (°) 0.0 0.00 0.00 0.0 0.0 0.0 0.00 0.00 0.00 0.00 1,404.3 0.00 0.00 1,404.3 0.0 0.0 0.00 0.00 0.00 0.00 1.854.3 9.00 0.00 1.852.5 35.3 0.0 2.00 2.00 0.00 0.00 0.00 9,649.7 9.00 0.00 9,551.8 1 254 7 0.0 0.00 0.00 0.00 10,099.7 0.00 0.00 10,000.0 1,290.0 0.0 2.00 -2.00 0.00 180.00 10,154.2 0.00 0.00 10,054.5 1,290.0 0.0 0.00 0.00 0.00 0.00 10,904.2 90.00 91.06 10,532.0 1,281.1 477.4 12.00 12.00 0.00 91.06 0.00 Ochoa #1H BHL 18,445.8 90.00 91.06 10,532.0 1,141.1 8,017.6 0.00 0.00 0.00

Planning Report - Geographic

Old Database:

BTA Oil Producers, LLC

Company: Project:

Eddy County, NM (NAD 83)

Site: Well: Ochoa

Ochoa #01H Wellbore #1 Wellbore: Design: Design #1

Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference: **Survey Calculation Method:** Well Ochoa #01H GL @ 3017.0usft

GL @ 3017.0usft Grid

Minimum Curvature

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.0	0.00	0.00	0.0	0.0	0.0	481,382.00	634,043.00	32° 19' 22.924 N	104° 1' 59.576 W
100.0	0.00	0.00	100.0	0.0	0.0	481,382.00	634,043.00	32° 19' 22.924 N	104° 1' 59.576 W
200.0	0.00	0.00	200.0	0.0	0.0	481,382.00	634,043.00	32° 19' 22.924 N	104° 1' 59.576 W
300.0	0.00	0.00	300.0	0.0	0.0	481,382.00	634,043.00	32° 19' 22.924 N	104° 1' 59.576 W
400.0	0.00	0.00	400.0	0.0	0.0	481,382.00	634,043.00	32° 19' 22.924 N	104° 1' 59.576 W
500.0	0.00	0.00	500.0	0.0	0.0	481,382.00	634,043.00	32° 19' 22.924 N	104° 1' 59.576 W
600.0	0.00	0.00	600.0	0.0	0.0	481,382.00	634,043.00	32° 19' 22.924 N	104° 1' 59.576 W
700.0	0.00	0.00	700.0	0.0	0.0	481,382.00	634,043.00	32° 19' 22.924 N	104° 1' 59.576 W
800.0	0.00	0.00	800.0	0.0	0.0	481,382.00	634,043.00	32° 19' 22.924 N	104° 1' 59.576 W
900.0	0.00	0.00 0.00	900.0 1,000.0	0.0 0.0	0.0	481,382.00	634,043.00	32° 19' 22.924 N	104° 1' 59.576 W
1,100.0	0.00	0.00	1,100.0	0.0	0.0	481,382.00 481,382.00	634,043.00 634,043.00	32° 19' 22.924 N 32° 19' 22.924 N	104° 1' 59.576 W 104° 1' 59.576 W
1,200.0	0.00	0.00	1,200.0	0.0	0.0	481,382.00	634,043.00	32° 19' 22.924 N	104° 1' 59.576 W
1,300.0	0.00	0.00	1,300.0	0.0	0.0	481,382.00	634,043.00	32° 19' 22.924 N	104° 1' 59.576 W
1,400.0	0.00	0.00	1,400.0	0.0	0.0	481,382.00	634,043.00	32° 19' 22.924 N	104° 1' 59.576 W
1,404.3	0.00	0.00	1,404.3	0.0	0.0	481,382.00	634.043.00	32° 19' 22.924 N	104° 1' 59.576 W
1,500.0	1.91	0.00	1,500.0	1.6	0.0	481,383.60	634,043.00	32° 19' 22.940 N	104° 1' 59.575 W
1,600.0	3.91	0.00	1,599.8	6.7	0.0	481,388.68	634,043.00	32° 19' 22.990 N	104° 1' 59.575 W
1,700.0	5.91	0.00	1,699.5	15.2	0.0	481,397.24	634,043.00	32° 19' 23.075 N	104° 1' 59.575 W
1,800.0	7.91	0.00	1,798.7	27.3	0.0	481,409.28	634,043.00	32° 19' 23.194 N	104° 1' 59.575 W
1,854.3	9.00	0.00	1,852.5	35.3	0.0	481,417.27	634,043.00	32° 19' 23.273 N	104° 1' 59.574 W
1,900.0	9.00	0.00	1,897.6	42.4	0.0	481,424.41	634,043.00	32° 19' 23.344 N	104° 1' 59.574 W
2,000.0	9.00	0.00	1,996.4	58.1	0.0	481,440.05	634,043.00	32° 19' 23.499 N	104° 1' 59.574 W
2,100.0	9.00	0.00	2,095.1	73.7	0.0	481,455.70	634,043.00	32° 19' 23.654 N	104° 1' 59.573 W
2,200.0	9.00	0.00	2,193.9	89.3	0.0	481,471.34	634,043.00	32° 19' 23.808 N	104° 1' 59.573 W
2,300.0	9.00	0.00	2,292.7	105.0	0.0	481,486.98	634,043.00	32° 19' 23.963 N	104° 1' 59.572 W
2,400.0	9.00	0.00	2,391.4	120.6	0.0	481,502.62	634,043.00	32° 19' 24.118 N	104° 1' 59.572 W
2,500.0	9.00	0.00	2,490.2	136.3	0.0	481,518.26	634,043.00	32° 19' 24.273 N	104° 1' 59.571 W
2,600.0	9.00	0.00	2,589.0	151.9	0.0	481,533.91	634,043.00	32° 19' 24.428 N	104° 1' 59.571 W
2,700.0	9.00	0.00	2,687.7	167.6	0.0	481,549.55	634,043.00	32° 19' 24.582 N	104° 1' 59.570 W
2,800.0	9.00	0.00	2,786.5	183.2	0.0	481,565.19	634,043.00	32° 19' 24.737 N	104° 1' 59.570 W
2,900.0	9.00	0.00	2,885.3	198.8	0.0	481,580.83	634,043.00	32° 19' 24.892 N	104° 1' 59.569 W
3,000.0	9.00	0.00	2,984.0	214.5	0.0	481,596.48	634,043.00	32° 19′ 25.047 N	104° 1' 59.569 W
3,100.0	9.00	0.00	3,082.8	230.1	0.0	481,612.12	634,043.00	32° 19' 25.201 N	104° 1' 59.568 W
3,200.0	9.00	0.00	3,181.6	245.8	0.0	481,627.76	634,043.00	32° 19' 25.356 N	104° 1' 59.567 W
3,300.0	9.00	0.00	3,280.4	261.4	0.0	481,643.40	634,043.00	32° 19' 25.511 N	104° 1' 59.567 W
3,400.0	9.00	0.00	3,379.1	277.1	0.0	481,659.04	634,043.00	32° 19' 25.666 N	104° 1' 59.566 W
3,500.0	9.00	0.00	3,477.9	292.7	0.0	481,674.69	634,043.00	32° 19' 25.821 N	104° 1' 59.566 W
3,600.0	9.00	0.00	3,576.7	308.4	0.0	481,690.33	634,043.00	32° 19' 25.975 N	104° 1' 59.565 W
3,700.0	9.00	0.00	3,675.4	324.0	0.0	481,705.97	634,043.00	32° 19' 26.130 N	104° 1' 59.565 W
3,800.0	9.00	0.00	3,774.2	339.6	0.0	481,721.61	634,043.00	32° 19' 26.285 N	104° 1' 59.564 W
3,900.0	9.00	0.00	3,873.0	355.3	0.0	481,737.26	634,043.00	32° 19' 26.440 N	104° 1' 59.564 W
4,000.0	9.00	0.00	3,971.7	370.9	0.0	481,752.90	634,043.00	32° 19' 26.595 N	104° 1' 59.563 W
4,100.0	9.00	0.00	4,070.5	386.6	0.0	481,768.54	634,043.00	32° 19' 26.749 N	104° 1' 59.563 W
4,200.0	9.00	0.00	4,169.3	402.2	0.0	481,784.18	634,043.00	32° 19' 26.904 N	104° 1' 59.562 W
4,300.0	9.00	0.00	4,268.0	417.9 433.5	0.0	481,799.82	634,043.00	32° 19' 27.059 N	104° 1' 59.562 W 104° 1' 59.561 W
4,400.0	9.00	0.00	4,366.8	433.5	0.0	481,815.47	634,043.00	32° 19' 27.214 N	104 1 59.561 W
4,500.0 4,600.0	9.00	0.00	4,465.6	449.1	0.0 0.0	481,831.11 481,846.75	634,043.00	32° 19' 27.369 N	
4,700.0	9.00 9.00	0.00	4,564.3 4,663.1	464.8 480.4	0.0	481,862.39	634,043.00 634,043.00	32° 19' 27.523 N 32° 19' 27.678 N	104° 1' 59.560 W 104° 1' 59.560 W
4,800.0	9.00	0.00	4,761.9	496.1	0.0	481,878.03	634,043.00	32° 19' 27.833 N	104 1 59.560 W
4,900.0	9.00	0.00	4,761.9	511.7	0.0	481,893.68	634,043.00	32° 19' 27.988 N	104 1 59.559 W
5,000.0	9.00	0.00	4,860.7	511.7	0.0	481,909.32	634,043.00	32° 19' 28.143 N	104 1 59.559 W
5,100.0	9.00	0.00	5,058.2	543.0	0.0	481,924.96	634,043.00	32° 19' 28.297 N	104° 1' 59.558 W
5,200.0	9.00	0.00	5,157.0	558.6	0.0	481,940.60	634,043.00	32° 19' 28.452 N	104° 1' 59.557 W
0,200.0	5.00	0.00	0,107.0	300.0	0.0	101,040.00	001,040.00	32 10 20.702 N	101 1 00.007 44

Planning Report - Geographic

Database:

Old

BTA Oil Producers, LLC

Company: Project:

Eddy County, NM (NAD 83)

Site: Well: Ochoa Ochoa #01H

Wellbore #1 Wellbore: Design: Design #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Ochoa #01H GL @ 3017.0usft

GL @ 3017.0usft Grid

Minimum Curvature

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
5,300.0	9.00	0.00	5,255.7	574.3	0.0	481,956.25	634,043.00	32° 19' 28.607 N	104° 1' 59.557 W
5,400.0	9.00	0.00	5,354.5	589.9	0.0	481,971.89	634,043.00	32° 19' 28.762 N	104° 1' 59.556 W
5,500.0	9.00	0.00	5,453.3	605.6	0.0	481,987.53	634,043.00	32° 19' 28.916 N	104° 1' 59.556 W
5,600.0	9.00	0.00	5,552.0	621.2	0.0	482,003.17	634,043.00	32° 19' 29.071 N	104° 1' 59.555 W
5,700.0	9.00	0.00	5,650.8	636.9	0.0	482,018.81	634,043.00	32° 19′ 29.226 N	104° 1' 59.555 W
5,800.0	9.00	0.00	5,749.6	652.5	0.0	482,034.46	634,043.00	32° 19' 29.381 N	104° 1' 59.554 W
5,900.0	9.00	0.00	5,848.3	668.2	0.0	482,050.10	634,043.00	32° 19' 29.536 N	104° 1' 59.554 W
6,000.0	9.00	0.00	5,947.1	683.8	0.0	482,065.74	634,043.00	32° 19' 29.690 N	104° 1' 59.553 W
6,100.0	9.00	0.00	6,045.9	699.4	0.0	482,081.38	634,043.00	32° 19' 29.845 N	104° 1' 59.553 W
6,200.0 6,300.0	9.00 9.00	0.00 0.00	6,144.6	715.1 730.7	0.0	482,097.03	634,043.00	32° 19' 30.000 N	104° 1' 59.552 W
6,400.0	9.00	0.00	6,243.4 6,342.2	730.7 746.4	0.0	482,112.67 482,128.31	634,043.00 634,043.00	32° 19' 30.155 N 32° 19' 30.310 N	104° 1' 59.552 W 104° 1' 59.551 W
6,500.0	9.00	0.00	6,441.0	762.0	0.0	482,143.95	634,043.00	32° 19' 30.464 N	104° 1' 59.551 W
6,600.0	9.00	0.00	6,539.7	777.7	0.0	482,159.59	634,043.00	32° 19' 30.619 N	104° 1' 59.550 W
6,700.0	9.00	0.00	6,638.5	793.3	0.0	482,175.24	634,043.00	32° 19' 30.774 N	104° 1' 59.550 W
6,800.0	9.00	0.00	6,737.3	808.9	0.0	482,190.88	634,043.00	32° 19' 30.929 N	104° 1' 59.549 W
6,900.0	9.00	0.00	6,836.0	824.6	0.0	482,206.52	634,043.00	32° 19' 31.084 N	104° 1' 59.549 W
7,000.0	9.00	0.00	6,934.8	840.2	0.0	482.222.16	634,043.00	32° 19' 31.238 N	104° 1' 59.548 W
7,100.0	9.00	0.00	7,033.6	855.9	0.0	482,237.80	634,043.00	32° 19' 31.393 N	104° 1' 59.548 W
7,200.0	9.00	0.00	7,132.3	871.5	0.0	482,253.45	634,043.00	32° 19' 31.548 N	104° 1' 59.547 W
7,300.0	9.00	0.00	7,231.1	887.2	0.0	482,269.09	634,043.00	32° 19' 31.703 N	104° 1' 59.547 W
7,400.0	9.00	0.00	7,329.9	902.8	0.0	482,284.73	634,043.00	32° 19' 31.858 N	104° 1' 59.546 W
7,500.0	9.00	0.00	7,428.6	918.4	0.0	482,300.37	634,043.00	32° 19' 32.012 N	104° 1' 59.546 W
7,600.0	9.00	0.00	7,527.4	934.1	0.0	482,316.02	634,043.00	32° 19' 32.167 N	104° 1' 59.545 W
7,700.0	9.00	0.00	7,626.2	949.7	0.0	482,331.66	634,043.00	32° 19' 32.322 N	104° 1' 59.545 W
7,800.0	9.00	0.00	7,725.0	965.4	0.0	482,347.30	634,043.00	32° 19' 32.477 N	104° 1' 59.544 W
7,900.0	9.00	0.00	7,823.7	981.0	0.0	482,362.94	634,043.00	32° 19′ 32.631 N	104° 1' 59.543 W
8,000.0	9.00	0.00	7,922.5	996.7	0.0	482,378.58	634,043.00	32° 19′ 32.786 N	104° 1' 59.543 W
8,100.0	9.00	0.00	8,021.3	1,012.3	0.0	482,394.23	634,043.00	32° 19' 32.941 N	104° 1' 59.542 W
8,200.0	9.00	0.00	8,120.0	1,028.0	0.0	482,409.87	634,043.00	32° 19' 33.096 N	104° 1' 59.542 W
8,300.0	9.00	0.00	8,218.8	1,043.6	0.0	482,425.51	634,043.00	32° 19' 33.251 N	104° 1' 59.541 W
8,400.0	9.00	0.00	8,317.6	1,059.2	0.0	482,441.15	634,043.00	32° 19' 33.405 N	104° 1' 59.541 W
8,500.0	9.00	0.00	8,416.3	1,074.9	0.0	482,456.80	634,043.00	32° 19′ 33.560 N	104° 1' 59.540 W
8,600.0	9.00	0.00	8,515.1	1,090.5	0.0	482,472.44	634,043.00	32° 19' 33.715 N	104° 1' 59.540 W
8,700.0	9.00	0.00	8,613.9	1,106.2	0.0	482,488.08	634,043.00	32° 19' 33.870 N	104° 1' 59.539 W
8,800.0	9.00	0.00	8,712.6	1,121.8	0.0	482,503.72	634,043.00	32° 19' 34.025 N	104° 1' 59.539 W
8,900.0	9.00	0.00	8,811.4	1,137.5	0.0	482,519.36	634,043.00	32° 19' 34.179 N	104° 1' 59.538 W
9,000.0 9,100.0	9.00 9.00	0.00 0.00	8,910.2 9,008.9	1,153.1 1,168.7	0.0 0.0	482,535.01	634,043.00	32° 19' 34.334 N 32° 19' 34.489 N	104° 1' 59.538 W 104° 1' 59.537 W
9,100.0	9.00	0.00			0.0	482,550.65	634,043.00	32° 19' 34.489 N 32° 19' 34.644 N	
9,200.0	9.00	0.00	9,107.7 9,206.5	1,184.4 1,200.0	0.0	482,566.29 482,581.93	634,043.00 634,043.00	32° 19' 34.799 N	104° 1' 59.537 W 104° 1' 59.536 W
9,400.0	9.00	0.00	9,200.3	1,200.0	0.0	482,597.57	634,043.00	32° 19' 34.953 N	104° 1' 59.536 W
9,500.0	9.00	0.00	9,303.3	1,213.7	0.0	482,613.22	634,043.00	32° 19' 35.108 N	104° 1' 59.535 W
9,600.0	9.00	0.00	9,502.8	1,247.0	0.0	482,628.86	634,043.00	32° 19' 35.263 N	104° 1' 59.535 W
9,649.7	9.00	0.00	9,551.8	1,254.7	0.0	482,636.63	634,043.00	32° 19' 35.340 N	104° 1' 59.535 W
9,700.0	7.99	0.00	9,601.6	1,262.2	0.0	482,644.06	634,043.00	32° 19' 35.413 N	104° 1' 59.534 W
9,800.0	5.99	0.00	9,700.9	1,274.3	0.0	482,656.24	634,043.00	32° 19' 35.534 N	104° 1' 59.534 W
9,900.0	3.99	0.00	9,800.5	1,283.0	0.0	482,664.94	634,043.00	32° 19' 35.620 N	104° 1' 59.534 W
10,000.0	1.99	0.00	9,900.3	1,288.3	0.0	482,670.16	634,043.00	32° 19' 35.672 N	104° 1' 59.533 W
10,099.7	0.00	0.00	10,000.0	1,290.0	0.0	482,671.90	634,043.00	32° 19' 35.689 N	104° 1' 59.533 W
10,100.0	0.00	0.00	10,000.3	1,290.0	0.0	482,671.90	634,043.00	32° 19' 35.689 N	104° 1' 59.533 W
10,154.2	0.00	0.00	10,054.5	1,290.0	0.0	482,671.90	634,043.00	32° 19' 35.689 N	104° 1' 59.533 W
10,200.0	5.50	91.06	10,100.3	1,290.0	2.2	482,671.86	634,045.20	32° 19' 35.688 N	104° 1' 59.508 W
10,300.0	17.50	91.06	10,198.1	1,289.6	22.1	482,671.49	634,065.09	32° 19' 35.684 N	104° 1' 59.276 W
10,400.0	29.50	91.06	10,289.6	1,288.9	61.9	482,670.75	634,104.87	32° 19' 35.676 N	104° 1' 58.812 W

Planning Report - Geographic

Database:

Old

BTA Oil Producers, LLC

Company: Project:

Eddy County, NM (NAD 83)

Site: Well: Ochoa

Ochoa #01H Wellbore: Wellbore #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Ochoa #01H GL @ 3017.0usft

GL @ 3017.0usft

Grid Minimum Curvature

Design: Design #1 Planned Survey this is 99ft FWI

11,000 90,00 91,06 10,532 12,794 5732 42,686 30 634,520 53,274 93,588 N 104*1*528,970 M 11,000 90,00 91,06 10,532 12,775 673.1 42,686 40 634,716,09 32*19*35,586 N 104*1*528,984 11,000 90,00 91,06 10,532 12,756 773.1 42,686 40 634,716,09 32*19*35,586 N 104*1*51,889 W 11,000 90,00 91,06 10,532 12,738 783.1 42,686,68 634,916,02 32*19*35,586 N 104*1*19,336 W 11,000 90,00 91,06 10,532 12,738 783.1 42,686,68 634,916,02 32*19*35,586 N 104*1*18,336 W 11,000 90,00 91,06 10,532 12,731 10,731 42,685,197 635,115,99 32*19*35,480 N 104*1*18,336 W 11,000 90,00 91,06 10,532 12,864 12,731 42,685,197 635,115,99 32*19*35,480 N 104*1*14,890 W 11,000 90,00 91,06 10,532 12,864 12,731 42,685,197 635,115,99 32*19*35,480 N 104*1*14,890 W 11,000 90,00 91,06 10,532 12,864 12,731 42,685,197 635,115,99 32*19*35,481 N 104*1*14,890 W 11,000 90,00 91,06 10,532 12,864 1,273 42,686,197 635,115,99 32*19*35,491 N 104*1*14,890 W 11,000 90,00 91,06 10,532 12,864 1,273 42,686,197 635,415,99 32*19*35,491 N 104*1*14,890 W 12,000 90,00 91,06 10,532 12,864 1,573 0 42,646,45 635,615,49 32*19*35,377 N 104*1*14,383 W 12,000 90,00 91,06 10,532 12,869 1,573 0 42,646,45 635,615,69 32*19*35,377 N 104*1*14,383 W 12,000 90,00 91,06 10,532 12,869 1,573 0 42,646,45 635,615,69 32*19*35,358 N 104*1*14,383 W 12,000 90,00 91,06 10,532 12,569 1,573 0 42,646,48 635,615,69 32*19*35,358 N 104*1*14,383 W 12,000 90,00 91,06 10,532 12,569 1,573 0 42,646,48 635,615,69 32*19*35,358 N 104*1*14,383 W 12,000 90,00 91,06 10,532 12,569 1,573	Planned Survey							this	is 99ft FWL	
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10,000								_	Latitude	Longitude
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19,700.0 65.50 91.08 10,489.0 12,848 279.4 428,268.67 634,322.36 32°19°35,630 N 104°17'65,778 M 10,800.0 69.50 91.08 10,532.0 1,281.1 477.4 428,668.19 634,669.19								,		
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11,000.0 90.00 91.06 10,532.0 1,279.4 573.2 482,669.12 634,616.12 379 55,588 N 104" 1'52,884 N 11,100.0 90.00 91.06 10,532.0 1,275.6 673.1 482,669.40 634,716.09 32" 19" 35,588 N 104" 1'52,884 N 11,100.0 90.00 91.06 10,532.0 1,275.6 773.1 482,659.40 634,716.09 32" 19" 35,588 N 104" 1'51,889 W 11,200.0 90.00 91.06 10,532.0 1,273.6 873.1 482,659.60 634,916.02 32" 19" 35,585 N 104" 1'51,889 W 11,200.0 90.00 91.06 10,532.0 1,273.8 873.1 482,659.60 634,916.02 32" 19" 35,585 N 104" 1'41,835 W 11,200.0 90.00 91.06 10,532.0 1,271.9 973.1 482,659.17 635,016.02 32" 19" 35,480 N 104" 1'41,835 W 11,200.0 90.00 91.06 10,532.0 1,270.1 1,073.1 482,659.17 635,115.99 32" 19" 35,480 N 104" 1'47,029 W 11,200.0 90.00 91.06 10,532.0 1,270.1 1,073.1 482,659.17 635,115.99 32" 19" 35,480 N 104" 1'47,029 W 11,200.0 90.00 91.06 10,532.0 1,286.4 1,273.0 482,669.17 635,115.99 32" 19" 35,480 N 104" 1'47,029 W 11,200.0 90.00 91.06 10,532.0 1,286.4 1,273.0 482,640.25 635,315.44 32" 19" 35,490 N 104" 1'47,029 W 11,200.0 90.00 91.06 10,532.0 1,286.6 1,373.0 482,640.25 635,315.44 32" 19" 35,490 N 104" 1'47,029 W 11,200.0 90.00 91.06 10,532.0 1,286.6 1,573.0 482,640.4 63,515.64 32" 19" 35,490 N 104" 1'47,143,890 W 12,200.0 90.00 91.06 10,532.0 1,286.6 1,573.0 482,640.8 635,516.89 32" 19" 35,377 N 104" 1'42,380 W 12,200.0 90.00 91.06 10,532.0 1,286.9 1,573.0 482,640.8 635,516.8 32" 19" 35,350 N 104" 1'42,380 W 12,200.0 90.00 91.06 10,532.0 1,285.9 1,573.0 482,640.8 635,516.8 32" 19" 35,350 N 104" 1'42,380 W 12,200.0 90.00 91.06 10,532.0 1,255.2 1,872.9 482,643 N 635,116.8 32" 19" 35,350 N 104" 1'41,383 W 12,200.0 90.00 91.06 10,532.0 1,255.2 1,872.9 482,635.0 6 635,116.6 32" 19" 35,350 N 104" 1'41,383 W 12,200.0 90.00 91.06 10,532.0 1,245.8 1,272.9 482,635.0 6 635,116.6 32" 19" 35,500 N 104" 1'3,387 W 12,200.0 90.00 91.06 10,532.0 1,245.8 1,272.9 482,635.0 6 635,115.6 32" 19" 35,500 N 104" 1'3,387 W 13,200.0 90.00 91.06 10,532.0 1,247.8 2,272.9 482,635.0 6 635,115.6 32" 19" 35,500 N 104" 1'3,387 W 13,200.0 90.00 91.06 10,532.0 1,244.8 2,272.9 482,										104° 1' 54.019 W
11,100.0 90.00 91.08 10,532.0 1,277.5 673.1 42,669.40 634,716.09 32°19°35,546 N 104°1°16,169.24 W 11,300.0 90.00 91.08 10,532.0 1,273.8 873.1 42,665.68 634,916.04 32°19°35,546 N 104°1°16,169.24 W 11,300.0 90.00 91.08 10,532.0 1,273.8 873.1 42,665.68 634,916.04 32°19°35,540 N 104°1°14,93.96 W 11,400.0 90.00 91.08 10,532.0 1,270.1 10,73.1 42,665.88 634,916.04 32°19°35,540 N 104°1°14,93.96 W 11,500.0 90.00 91.08 10,532.0 1,270.1 10,73.1 42,665.97 635,115.99 32°19°35,462 N 104°1°14,729 W 11,500.0 90.00 91.08 10,532.0 1,266.4 1,273.0 42,646.19 635,215.99 32°19°35,462 N 104°1°14,729 W 11,500.0 90.00 91.08 10,532.0 1,266.4 1,273.0 42,646.25 635,315.94 32°19°35,410 N 104°1°14,34.59 W 11,500.0 90.00 91.08 10,532.0 1,266.4 1,273.0 42,646.25 635,315.94 32°19°35,410 N 104°1°14,34.53 W 11,500.0 90.00 91.08 10,532.0 1,266.6 1,473.0 42,646.25 635,315.94 32°19°35,340 N 104°1°14,34.53 W 11,500.0 90.00 91.08 10,532.0 1,266.8 1,573.0 42,644.54 635,515.89 32°19°35,350 N 104°1°14,23.53 W 11,500.0 90.00 91.08 10,532.0 1,266.8 1,573.0 42,640.83 635,515.89 32°19°35,350 N 104°1°14,23.93 W 11,200.0 90.00 91.08 10,532.0 1,265.0 1,255.2 1,267.1 1,773.0 42,640.83 635,515.89 32°19°35,350 N 104°1°14,23.93 W 11,200.0 90.00 91.08 10,532.0 1,265.1 1,277.1 1,773.0 42,640.83 635,515.89 32°19°35,350 N 104°1°14,23.93 W 11,200.0 90.00 91.08 10,532.0 1,265.1 1,267.1 1,773.0 42,640.83 635,515.89 32°19°35,350 N 104°1°14,23.93 W 11,200.0 90.00 91.08 10,532.0 1,265.1 1,277.1 1,773.0 42,640.83 635,515.89 32°19°35,350 N 104°1°14,23.93 W 11,200.0 90.00 91.08 10,532.0 1,265.1 1,277.1 1,273.0 42,640.83 635,515.89 32°19°35,350 N 104°1°14,23.93 W 11,200.0 90.00 91.08 10,532.0 1,265.1 1,277.1 1,273.0 42,640.83 635,515.89 32°19°35,350 N 104°1°14,23.93 W 11,200.0 90.00 91.08 10,532.0 1,265.1 1,277.1 1,273.0 42,640.83 635,515.89 33°19°35,250 N 104°1°14,23.93 W 11,200.0 90.00 91.08 10,532.0 1,265.2 1,										104° 1' 53.970 W
11,200.0 90.00 91.08 10,532.0 1,275.6 773.1 42,667.54 634,816.07 32 19 35,525.8 104 11,00.0 90.00 91.08 10,532.0 1,271.9 973.1 42,653.82 635,016.02 32 19 35,640.N 104 11,40.0 190.0 91.08 10,532.0 1,271.9 19 31.4 42,653.82 635,016.02 32 19 35,640.N 104 11,47,029.W 11,500.0 90.00 91.08 10,532.0 1,268.2 11,73.1 42,653.82 635,016.02 32 19 35,640.N 104 11,47,029.W 11,500.0 90.00 91.08 10,532.0 1,268.2 11,73.1 42,650.11 633,215.97 32 19 35,640.N 104 11,47,029.W 11,500.0 90.00 91.08 10,532.0 1,268.2 11,73.1 42,669.01 635,215.97 32 19 35,640.N 104 11,45,694.W 11,800.0 90.00 91.08 10,532.0 1,268.4 1,273.0 42,646.40 635,415.92 32 19 35,640.N 104 11,45,694.W 11,800.0 90.00 91.08 10,532.0 1,268.6 1,473.0 42,646.40 635,415.92 32 19 35,398.N 104 11,43,534.W 11,800.0 90.00 91.08 10,532.0 1,266.6 1,473.0 42,646.40 635,615.89 32 19 35,358.N 104 11,43,534.W 11,200.0 90.00 91.08 10,532.0 1,263.6 1,473.0 42,646.83 635,716.34 32 19 35,358.N 104 11,43,534.W 11,200.0 90.00 91.08 10,532.0 1,263.6 1,473.0 42,646.83 635,716.34 32 19 35,358.N 104 11,43,534.W 11,200.0 90.00 91.08 10,532.0 1,265.2 1,275.1 1,773.0 42,646.83 635,716.34 32 19 35,358.N 104 11,43,534.W 11,200.0 90.00 91.08 10,532.0 1,255.2 1,267.1 1,773.0 42,636.8 16,37 32 19 35,291.N 104 11,43,534.W 11,200.0 90.00 91.06 10,532.0 1,255.2 1,	11,000.0	90.00	91.06	10,532.0	1,279.4	573.2	482,661.25	634,616.12	32° 19' 35.568 N	104° 1' 52.854 W
11,300.0 90.00 91.06 10,532.0 1,273.8 873.1 42,665.68 634,916.04 32°19°35.504 N 104°1*4.819.04 11,500.0 90.00 91.06 10,532.0 1,273.1 42,665.197 635,115.99 32°19°35.487 N 104°1*4.819.04 11,500.0 90.00 91.06 10,532.0 1,266.4 1,273.0 482,661.97 635,115.99 32°19°35.487 N 104°1*4.819.04 11,500.0 90.00 91.06 10,532.0 1,266.4 1,273.0 482,648.25 635,315.94 32°19°35.491 N 104°1*4.499.04 11,500.0 90.00 91.06 10,532.0 1,266.4 1,273.0 482,648.25 635,315.94 32°19°35.491 N 104°1*4.499.04 11,500.0 90.00 91.06 10,532.0 1,266.4 1,273.0 482,648.25 635,315.94 32°19°35.398 N 104°1*4.43.533 W 12,000.0 90.00 91.06 10,532.0 1,260.6 1,475.0 482,644.6 635,515.93 32°19°35.398 N 104°1*4.23.68 W 12,000.0 90.00 91.06 10,532.0 1,260.6 1,475.0 482,644.6 635,515.93 32°19°35.398 N 104°1*4.23.68 W 12,000.0 90.00 91.06 10,532.0 1,269.8 1,673.0 482,642.86 635,615.67 32°19°35.398 N 104°1*4.00.08 W 12,200.0 90.00 91.06 10,532.0 1,267.1 1,773.0 482,669.87 635,815.81 32°19°35.398 N 104°1*4.00.08 W 12,200.0 90.00 91.06 10,532.0 1,265.2 1,872.9 482,635.6 630,015.76 32°19°35.291 N 104°1*3.778 W 12,500.0 90.00 91.06 10,532.0 1,255.2 1,872.9 482,635.6 630,015.76 32°19°35.271 N 104°1*3.478 W 12,500.0 90.00 91.06 10,532.0 1,265.2 1,872.9 482,631.4 633,615.7 32°19°35.271 N 104°1*3.478 W 12,500.0 90.00 91.06 10,532.0 1,245.9 2,472.9 482,631.4 633,615.7 32°19°35.271 N 104°1*3.478 W 12,500.0 90.00 91.06 10,532.0 1,245.9 2,472.9 482,631.4 633,615.7 32°19°35.250 N 104°1*3.478 W 12,500.0 90.00 91.06 10,532.0 1,245.9 2,372.9 482,631.6 630,615.7 32°19°35.250 N 104°1*3.478 W 12,500.0 90.00 91.06 10,532.0 1,245.9 2,372.9 482,624.2 63 636,615.6 132°19°35.60 N 104°1*3.478 W 12,500.0 90.00 91.06 10,532.0 1,245.9 2,372.9 482,624.2 63 636,615.6 132°19°35.60 N 104°1*3.478 W 12,500.0 90.00 91.06 10,532.0 1,245.9 2,372.9 482,624.2 63 636,615.6 132°19°35.60 N 104°1*3.478 W 12,500.0 90.00 91.06 10,532.0 1,245.9 2,372.9 482,624.6 63 636,615.6 132°19°35.60 N 104°1*3.478 W 12,500.0 90.00 91.06 10,532.0 1,245.9 2,372.9 482,600.6 638,615.6 132°19°35.6 N 104°1*3.478 W 12,500.0 90.0 9	11,100.0	90.00	91.06	10,532.0	1,277.5	673.1	482,659.40	634,716.09	32° 19' 35.546 N	104° 1' 51.689 W
11,400.0 90.00 91.06 10,532.0 1,271.9 973.1 42,683.82 635.016.02 32*19*35.482 N 104*1*148.794 N 11,500.0 90.00 91.06 10,532.0 1,286.2 1,173.1 482,685.11 635.215.97 32*19*35.482 N 104*1*147.029 N 11,500.0 90.00 91.06 10,532.0 1,286.2 1,173.1 482,680.11 635.215.97 32*19*35.480 N 104*1*148.994 N 11,500.0 90.00 91.06 10,532.0 1,284.5 1,373.0 482,646.40 635.415.92 32*19*35.345 N 104*1*24.363 N 11,900.0 90.00 91.06 10,532.0 1,284.5 1,473.0 482,646.45 635.15.89 32*19*35.37 N 104*1*24.368 N 11,900.0 90.00 91.06 10,532.0 1,280.8 1,573.0 482,646.45 635.15.89 32*19*35.37 N 104*1*24.368 N 12,200.0 90.00 91.06 10,532.0 1,280.8 1,573.0 482,646.8 635.615.87 32*19*35.335 N 104*1*24.368 N 12,200.0 90.00 91.06 10,532.0 1,285.8 1,673.0 482,640.8 635.615.87 32*19*35.335 N 104*1*24.008 N 12,200.0 90.00 91.06 10,532.0 1,285.1 1,773.0 482,638.07 635.815.81 32*19*35.335 N 104*1*24.008 N 12,200.0 90.00 91.06 10,532.0 1,285.1 1,773.0 482,638.07 635.815.81 32*19*35.335 N 104*1*38.873 N 12,200.0 90.00 91.06 10,532.0 1,285.4 1,372.9 482,637.10 16*19*35.22 N 104*1*37.708 N 12,200.0 90.00 91.06 10,532.0 1,285.4 1,372.9 426,637.34 636,157.7 32*19*35.291 N 104*1*38.873 N 12,200.0 90.00 91.06 10,532.0 1,285.4 1,372.9 426,637.34 636,157.7 32*19*35.291 N 104*1*38.873 N 12,200.0 90.00 91.06 10,532.0 1,285.4 1,372.9 426,637.34 636,157.7 32*19*35.291 N 104*1*38.873 N 12,200.0 90.00 91.06 10,532.0 1,285.4 1,372.9 426,637.34 636,157.7 32*19*35.291 N 104*1*38.873 N 12,200.0 90.00 91.06 10,532.0 1,244.9 2,172.9 426,637.34 636,157.4 32*19*35.291 N 104*1*38.373 N 12,200.0 90.00 91.06 10,532.0 1,244.9 2,172.9 426,637.34 636,157.4 32*19*35.291 N 104*1*38.373 N 12,200.0 90.00 91.06 10,532.0 1,244.9 2,172.9 426,637.34 636,157.4 32*19*35.291 N 104*1*38.373 N 12,200.0 90.00 91.06 10,532.0 1,244.9 2,472.8 426,625.26 636,157.5 32*19*35.291 N 104*1*32.821 N 12,200.0 90.00 91.06 10,532.0 1,244.1 2,472.8 426,625.26 636,155.6 32*19*35.691 N 104*1*23.321 N 12,200.0 90.00 91.06 10,532.0 1,244.9 2,472.8 426,636.8 636,155.6 32*19*35.8 10 N 104*1*23.321 N 124*1*33.00.0 90	11,200.0	90.00	91.06	10,532.0	1,275.6	773.1	482,657.54	634,816.07	32° 19' 35.525 N	104° 1' 50.524 W
11,500 0 90,00 91,06 10,532 0 1,270 1 1,073 1 482,681,97 635,115,99 32*19*35,440 N 104*1*47,029 W 11,000 0 90,00 91,06 10,532 0 1,266.4 1,273 0 482,648,25 635,315,94 32*19*35,419 N 104*1*47,463,64 W 11,000 90,00 91,06 10,532 0 1,264.5 1,373 0 482,646,46 635,415,93 32*19*35,338 N 104*1*43,533 W 12,000 90,00 91,06 10,532 0 1,268.8 1,573 0 482,642,68 635,615,89 32*19*35,338 N 104*1*42,368 W 12,000 90,00 91,06 10,532 0 1,269.8 1,573 0 482,642,68 635,615,89 32*19*35,338 N 104*1*42,368 W 12,200 0 90,00 91,06 10,532 0 1,269.8 1,673 0 482,642,68 635,615,89 32*19*35,335 N 104*1*42,038 W 12,200 0 90,00 91,06 10,532 0 1,269.8 1,673 0 482,642,68 635,615,89 32*19*35,335 N 104*1*42,038 W 12,200 0 90,00 91,06 10,532 0 1,269.1 1,271,1 1,773 0 482,634,08 36,715,84 32*19*35,335 N 104*1*43,038 W 12,200 0 90,00 91,06 10,532 0 1,265 1 1,279.9 426,633,40 636,115,79 32*19*35,229 N 104*1*35,7708 W 12,500 0 90,00 91,06 10,532 0 1,2615.5 2,072.9 482,633 40 636,115,79 32*19*35,220 N 104*1*35,378 W 12,500 0 90,00 91,06 10,532 0 1,249.6 2,172.9 482,633 40 636,115,74 32*19*35,220 N 104*1*35,378 W 12,500 0 90,00 91,06 10,532 0 1,249.6 2,172.9 482,631,44 636,215,74 32*19*35,220 N 104*1*34,213 W 12,500 0 90,00 91,06 10,532 0 1,249.6 2,172.9 482,631,56 6 36,115,74 32*19*35,220 N 104*1*34,213 W 12,500 0 90,00 91,06 10,532 0 1,249.6 2,172.9 482,635,26 6 536,115,74 32*19*35,200 N 104*1*34,213 W 12,500 0 90,00 91,06 10,532 0 1,249.6 2,172.9 482,635 0 536,115,74 32*19*35,200 N 104*1*33,000 12,500 0 90,00 91,06 10,532 0 1,245.9 2,372.9 482,637,60 6 536,115,74 32*19*35,200 N 104*1*33,000 12,500 0 90,00 91,06 10,532 0 1,245.9 2,372.9 482,637,60 6 536,115,60 32*19*35,200 N 104*1*33,000 12,500 0 90,00 91,06 10,532 0 1,245.9 2,372.9 482,637,60 6 536,115,60 32*19*35,101 N 104*1*27,225 W 13,000 0 90,00 91,06 10,532 0 1,244.9 2,472.8 482,624.12 636,115,60 32*19*35,101 N 104*1*27,252 W 13,000 0 90,00 91,06 10,532 0 1,244.9 2,472.8 482,624.2 636,115,60 32*19*35,101 N 104*1*27,332 W 13,000 0 90,00 91,06 10,532 0 1,244.8 2,472.8 482,624.8 635,615,60 32*19*35,101	11,300.0	90.00	91.06	10,532.0	1,273.8	873.1	482,655.68	634,916.04	32° 19' 35.504 N	104° 1' 49.359 W
11,600	11,400.0	90.00	91.06	10,532.0			482,653.82	635,016.02	32° 19' 35.483 N	104° 1' 48.194 W
11,700.0 90.00 91.06 10,532.0 1,264.5 1,273.0 482,648.25 635,315.94 32° 19° 35.398 N 104° 1′ 42,368 W 11,900.0 90.00 91.06 10,532.0 1,262.6 1,473.0 482,644.26 635,516.89 32° 19° 35.398 N 104° 1′ 42,368 W 12,000.0 90.00 91.06 10,532.0 1,262.6 1,473.0 482,642.68 635,616.87 32° 19° 35.358 N 104° 1′ 42,368 W 12,000.0 90.00 91.06 10,532.0 1,262.6 1,673.0 482,642.68 635,616.87 32° 19° 35.358 N 104° 1′ 42,368 W 12,000.0 90.00 91.06 10,532.0 1,255.1 1,773.0 482,642.68 635,616.87 32° 19° 35.358 N 104° 1′ 40,038 W 12,000.0 90.00 91.06 10,532.0 1,255.1 1,773.0 482,638.97 635,616.87 32° 19° 35.318 N 104° 1′ 34,643 W 12,000.0 90.00 91.06 10,532.0 1,255.2 1,872.9 482,635.26 636,015.76 32° 19° 35.292 N 104° 1′ 37,708 W 12,500.0 90.00 91.06 10,532.0 1,251.5 2,072.9 482,635.26 636,015.76 32° 19° 35.271 N 104° 1′ 36,643 W 12,600.0 90.00 91.06 10,532.0 1,249.6 2,172.9 482,635.26 636,015.76 32° 19° 35.207 N 104° 1′ 36,643 W 12,600.0 90.00 91.06 10,532.0 1,249.8 2,172.9 482,635.26 636,015.76 32° 19° 35.207 N 104° 1′ 34,748 W 12,800.0 90.00 91.06 10,532.0 1,244.8 2,272.9 482,625.78 636,615.64 32° 19° 35.207 N 104° 1′ 34,748 2,272.9 482,625.78 636,615.64 32° 19° 35.108 N 104° 1′ 33,847 W 12,800.0 90.00 91.06 10,532.0 1,244.8 2,272.9 482,624.12 636,615.64 32° 19° 35.168 N 104° 1′ 31,882 W 12,900.0 90.00 91.06 10,532.0 1,244.8 2,272.8 482,624.78 636,615.64 32° 19° 35.168 N 104° 1′ 31,882 W 13,000.0 90.00 91.06 10,532.0 1,244.8 2,272.8 482,624.12 636,615.64 32° 19° 35.168 N 104° 1′ 31,882 W 13,000.0 90.00 91.06 10,532.0 1,244.8 2,272.8 482,624.12 636,615.64 32° 19° 35.168 N 104° 1′ 33,000 30.00 91.06 10,532.0 1,236.8 3,772.8 482,604.12 636,715.79 32° 19° 35.168 N 104° 1′ 33,000 30.00 91.06 10,532.0 1,224.8	11,500.0		91.06	10,532.0		1,073.1	482,651.97	635,115.99	32° 19' 35.462 N	104° 1' 47.029 W
11,900 0 90.00 91.06 10,532 0 1,286.5 1,373.0 482,646.40 635,415.92 32*19*35,398 N 104*1*42.368 W 12,000 90.00 91.06 10,532 0 1,280.8 1,573.0 482,648.56 635,616.89 32*19*35,358 N 104*1*42.368 W 12,000 90.00 91.06 10,532 0 1,280.8 1,573.0 482,648.83 635,715.84 32*19*35,358 N 104*1*42.03 W 12,000 90.00 91.06 10,532 0 1,255.2 1,872.9 482,638.97 635,616.81 32*19*35,358 N 104*1*40.03 W 12,000 90.00 91.06 10,532 0 1,255.2 1,872.9 482,638.97 635,616.81 32*19*35,358 N 104*1*38.873 W 12,000 90.00 91.06 10,532 0 1,255.4 1,972.9 482,639.11 635,915.79 32*19*35,227 N 104*1*38.873 W 12,500 90.00 91.06 10,532 0 1,251.5 2,072.9 482,633.40 636,115.74 32*19*35,227 N 104*1*38.873 W 12,500 90.00 91.06 10,532 0 1,251.5 2,072.9 482,633.40 636,115.74 32*19*35,229 N 104*1*33.047 W 12,500 90.00 91.06 10,532 0 1,244.6 2,172.9 482,631.54 636,215.71 32*19*35,229 N 104*1*33.047 W 12,800 90.00 91.06 10,532 0 1,248.6 2,172.9 482,631.54 636,215.71 32*19*35,229 N 104*1*33.047 W 12,800 90.00 91.06 10,532 0 1,248.6 2,172.9 482,631.54 636,215.71 32*19*35,229 N 104*1*33.047 W 12,800 90.00 91.06 10,532 0 1,248.6 2,172.9 482,631.54 636,215.71 32*19*35,229 N 104*1*33.047 W 12,800 90.00 91.06 10,532 0 1,248.6 2,172.9 482,631.54 636,215.71 32*19*35,229 N 104*1*33.047 W 12,800 90.00 91.06 10,532 0 1,248.9 2,372.9 482,629.69 636,315.69 32*19*35,200 N 104*1*33.047 W 13,800 90.00 91.06 10,532 0 1,244.9 2,372.9 482,625.97 636,515.64 32*19*35,168 N 104*1*31.82 W 13,800 90.00 91.06 10,532 0 1,244.9 2,372.9 482,625.97 636,515.64 32*19*35,168 N 104*1*31.82 W 13,800 90.00 91.06 10,532 0 1,244.9 2,372.8 482,625.97 636,515.64 32*19*35,168 N 104*1*28,525 W 13,800 90.00 91.06 10,532 0 1,240.4 2,672.8 482,618.55 638,615.64 32*19*35,168 N 104*1*28,525 W 13,800 90.00 91.06 10,532 0 1,224.2 2,572.8 482,618.55 638,615.64 32*19*35,168 N 104*1*28,025 W 13,800 90.00 91.06 10,532 0 1,234.8 2,972.7 482,618.96 637,153.8 32*19*35,168 N 104*1*28,025 W 13,800 90.00 91.06 10,532 0 1,224.4 3,372.7 482,618.96 637,153.8 32*19*35,08 N 104*1*28,02 W 13,800 90.00 91.06 10,532 0 1,224.3	11,600.0	90.00	91.06	10,532.0		1,173.1	482,650.11	635,215.97	32° 19' 35.440 N	104° 1' 45.864 W
1,900	11,700.0	90.00	91.06	10,532.0			482,648.25	635,315.94	32° 19' 35.419 N	104° 1' 44.699 W
12,000.0 90.00 91.06 10,532.0 1,265.8 1,673.0 482,642.68 635,615.87 32° 19° 35.356 N 104° 1'41.203 W 12,000.0 90.00 91.06 10,532.0 1,255.2 1,872.9 482,639.97 635,915.81 32° 19° 35.313 N 104° 1'13.7768 W 12,400.0 90.00 91.06 10,532.0 1,255.2 1,872.9 482,635.26 636,015.76 32° 19° 35.22 N 104° 1'13.7768 W 12,500.0 90.00 91.06 10,532.0 1,255.1 1,773.0 482,633.40 636,015.76 32° 19° 35.27 N 104° 1'13.7768 W 12,500.0 90.00 91.06 10,532.0 1,255.4 1,772.9 482,635.26 636,015.76 32° 19° 35.25 N 104° 1'13.578 W 12,500.0 90.00 91.06 10,532.0 1,246.8 1,72.9 482,635.26 636,015.76 32° 19° 35.22 N 104° 1'13.578 W 12,700.0 90.00 91.06 10,532.0 1,244.8 2,272.9 482,623.40 636,115.74 32° 19° 35.22 N 104° 1'13.578 W 12,700.0 90.00 91.06 10,532.0 1,244.8 2,272.9 482,625.78 636,415.66 32° 19° 35.20 N 104° 1'13.077 W 12,800.0 90.00 91.06 10,532.0 1,244.1 2,472.8 482,625.97 636,615.61 32° 19° 35.165 N 104° 1'13.077 W 13,000.0 90.00 91.06 10,532.0 1,244.1 2,472.8 482,625.97 636,615.61 32° 19° 35.165 N 104° 1'13.077 W 13,000.0 90.00 91.06 10,532.0 1,244.2 2,572.8 482,622.46 636,615.61 32° 19° 35.165 N 104° 1'12.952 W 13,000.0 90.00 91.06 10,532.0 1,244.8 2,472.8 482,622.46 636,615.61 32° 19° 35.105 N 104° 1'12.952 W 13,000.0 90.00 91.06 10,532.0 1,236.5 2,772.8 482,620.40 636,615.65 32° 19° 35.105 N 104° 1'12.952 W 13,000.0 90.00 91.06 10,532.0 1,236.5 2,772.8 482,620.40 636,615.65 32° 19° 35.105 N 104° 1'12.952 W 13,000.0 90.00 91.06 10,532.0 1,236.5 2,772.8 482,620.40 636,615.65 32° 19° 35.016 N 104° 1'12.2561 W 13,000.0 90.00 91.06 10,532.0 1,236.5 2,772.7 482,616.69 637,115.43 32° 19° 35.016 N 104° 1'12.2561 W 13,000.0 90.00 91.06 10,532.0 1,236.5 2,772.7 482,616.69 637,115.43 32° 19° 35.016 N 104° 1'							,			104° 1' 43.533 W
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15,600.0 90.00 91.06 10,532.0 1,193.9 5,172.4 482,575.84 639,214.95 32° 19' 34.591 N 104° 0' 59.259 W 15,700.0 90.00 91.06 10,532.0 1,192.1 5,272.4 482,573.98 639,314.93 32° 19' 34.570 N 104° 0' 58.094 W					1,195.8					104° 1' 0.424 W
15,700.0 90.00 91.06 10,532.0 1,192.1 5,272.4 482,573.98 639,314.93 32° 19' 34.570 N 104° 0' 58.094 W	15,600.0	90.00	91.06	10,532.0	1,193.9		482,575.84	639,214.95	32° 19' 34.591 N	104° 0' 59.259 W
15,800.0 90.00 91.06 10,532.0 1,190.2 5,372.3 482.572.13 639.414.90 32° 19' 34.548 N 104° 0' 56.929 W	15,700.0	90.00	91.06				482,573.98	639,314.93	32° 19' 34.570 N	104° 0' 58.094 W
	15,800.0	90.00	91.06	10,532.0	1,190.2	5,372.3	482,572.13	639,414.90	32° 19' 34.548 N	104° 0' 56.929 W

Planning Report - Geographic

Database: Old

Company: BTA Oil Producers, LLC

Project: Site: Well:

Wellbore: Design: Eddy County, NM (NAD 83)
Ochoa

Ochoa #01H Wellbore #1 Design #1 Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Ochoa #01H GL @ 3017.0usft GL @ 3017.0usft

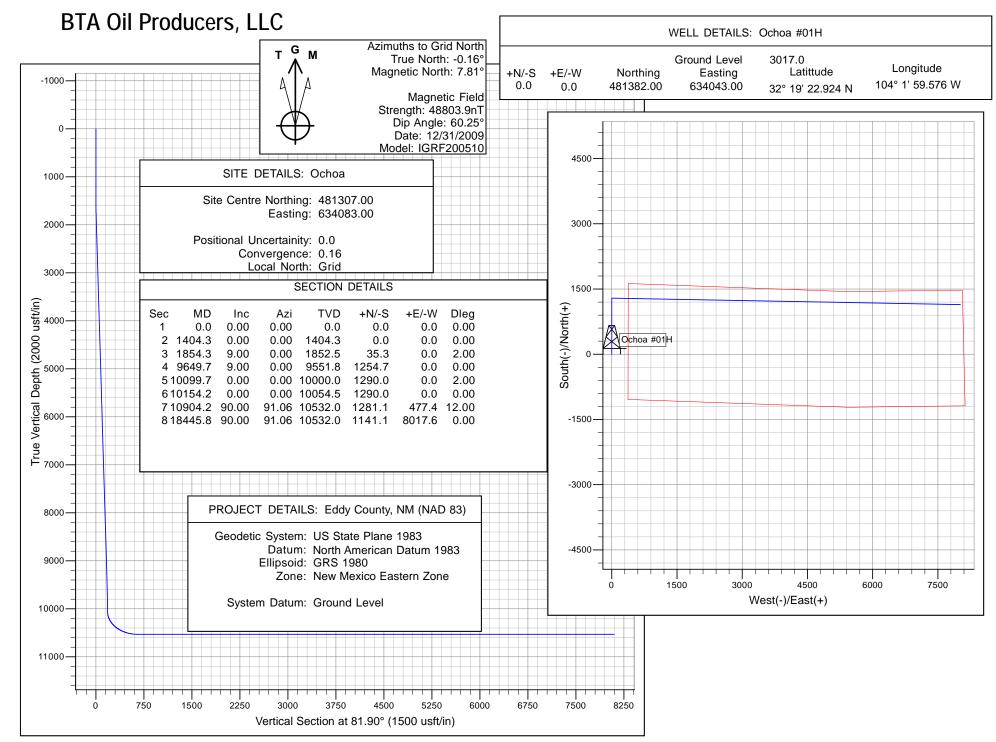
Grid

Minimum Curvature

•									
Planned Survey						_	This is 17	ft FWL	
							NM12195	51	
Measured			Vertical			Map /	Мар	·	
Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Northing	Easting		
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	Latitude	Longitude
15,900.0	90.00	91.06	10,532.0	1,188.4	5,472.3	482,570.27	639,514.88	32° 19' 34.527 N	104° 0' 55.764 W
16,000.0	90.00	91.06	10,532.0	1,186.5	5,572.3	482,568.41	639,614.85	32° 19' 34.506 N	104° 0' 54.599 W
16,100.0	90.00	91.06	10,532.0	1,184.7	5,672.3	482,566.56	639,714.83	32° 19' 34.484 N	104° 0' 53.434 W
16,200.0	90.00	91.06	10,532.0	1,182.8	5,772.3	482,564.70	639,814.80	32° 19' 34.463 N	104° 0' 52.269 W
16,300.0	90.00	91.06	10,532.0	1,180.9	5,872.2	482,562.84	639,914.78	32° 19' 34.442 N	104° 0' 51.104 W
16,400.0	90.00	91.06	10,532.0	1,179.1	5,972.2	482,560.99	640,014.75	32° 19' 34.420 N	104° 0' 49.938 W
16,500.0	90.00	91.06	10,532.0	1,177.2	6,072.2	482,559.13	640,114.72	32° 19' 34.399 N	104° 0' 48.773 W
16,600.0	90.00	91.06	10,532.0	1,175.4	6,172.2	482,557.27	640,214.70	32° 19' 34.378 N	104° 0' 47.608 W
16,700.0	90.00	91.06	10,532.0	1,173.5	6,272.2	482,555.42	640,314.67	32° 19' 34.356 N	104° 0' 46.443 W
16,800.0	90.00	91.06	10,532.0	1,171.7	6,372.2	482,553.56	640,414.65	32° 19' 34.335 N	104° 0' 45.278 W
16,900.0	90.00	91.06	10,532.0	1,169.8	6,472.1	482,551.70	640,514.62	32° 19' 34.314 N	104° 0' 44.113 W
17,000.0	90.00	91.06	10,532.0	1,167.9	6,572.1	482,549.85	640,614.60	32° 19' 34.292 N	104° 0' 42.948 W
17,100.0	90.00	91.06	10,532.0	1,166.1	6,672.1	482,547.99	640,714.57	32° 19' 34.271 N	104° 0' 41.783 W
17,200.0	90.00	91.06	10,532.0	1,164.2	6,772.1	482,546.13	640,814.55	32° 19' 34.250 N	104° 0' 40.618 W
17,300.0	90.00	91.06	10,532.0	1,162.4	6,872.1	482,544.28	640,914.52	32° 19' 34.228 N	104° 0' 39.453 W
17,400.0	90.00	91.06	10,532.0	1,160.5	6,972.1	482,542.42	641,014.50	32° 19' 34.207 N	104° 0' 38.287 W
17,500.0	90.00	91.06	10,532.0	1,158.7	7,072.0	482,540.56	641,114.47	32° 19' 34.186 N	104° 0' 37.122 W
17,600.0	90.00	91.06	10,532.0	1,156.8	7,172.0	482,538.70	641,214.45	32° 19' 34.164 N	104° 0' 35.957 W
17,700.0	90.00	91.06	10,532.0	1,154.9	7,272.0	482,536.85	641,314.42	32° 19' 34.143 N	104° 0' 34.792 W
17,800.0	90.00	91.06	10,532.0	1,153.1	7,372.0	482,534.99	641,414.39	32° 19' 34.122 N	104° 0' 33.627 W
17,900.0	90.00	91.06	10,532.0	1,151.2	7,472.0	482,533.13	641,514.37	32° 19' 34.100 N	104° 0' 32.462 W
18,000.0	90.00	91.06	10,532.0	1,149.4	7,572.0	482,531.28	641,614.34	32° 19' 34.079 N	104° 0' 31.297 W
18,100.0	90.00	91.06	10,532.0	1,147.5	7,671.9	482,529.42	641,714.32	32° 19' 34.057 N	104° 0' 30.132 W
18,200.0	90.00	91.06	10,532.0	1,145.7	7,771.9	482,527.56	641,814.29	32° 19' 34.036 N	104° 0' 28.967 W
18,300.0	90.00	91.06	10,532.0	1,143.8	7,871.9	482,525.71	641,914.27	32° 19' 34.015 N	104° 0' 27.802 W
18,400.0	90.00	91.06	10,532.0	1,141.9	7,971.9	482,523.85	642,014.24	32° 19' 33.993 N	104° 0' 26.636 W
18,445.8	90.00	91.06	10,532.0	1,141.1	8,017.6	482,523.00	642,060.00	32° 19' 33.984 N	104° 0' 26.103 W

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Ochoa #1H BHL - plan hits target cent - Point	0.00 ter	0.00	10,532.0	1,141.1	8,017.6	482,523.00	642,060.00	32° 19' 33.984 N	104° 0' 26.103 W

Received by OCD: 4/19/2021 9:35:52 AM



District 1 1625 N. French Dr., Hobbs, NM 88240 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

Submit Original to Appropriate District Office

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

Date: 5/6/2019	GAS CAPTURE PLAN	
☑ Original☑ Amended - Reason for Amendment:	Operator & OGRID No.:	260297

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

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

Well(s)/Production Facility - Name of facility

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

Well Name	API	Well Location (ULSTR)	Footages	Expected MCF/D	Flared or Vented	Comments
OCHOA 8703		SEC 12; 23S; 28E	1620 FNL 375 FEL	2000	Flared	Battery Connected
FEDERAL 1H			373122			To ETP System

Gathering System and Pipeline Notification

Well(s) will be connected to a production facility after flowback operations are complete, if gas transporter system is in place. The gas produced from production facility is dedicated to Gas Transporter and will be connected to Gas Transporter low/high pressure gathering system located in EDDY County, New Mexico. It will require 0 'of pipeline to (ETP) connect the facility to low/high pressure gathering system. Operator provides (periodically) to Gas Transporter a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, Operator and Gas Transporter have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at Gas Transporter Processing Plant located in Sec. ____, Twn. ____, Rng. County, New Mexico. The actual flow of the gas will be based on compression operating parameters and gathering system pressures.

Flowback Strategy

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

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

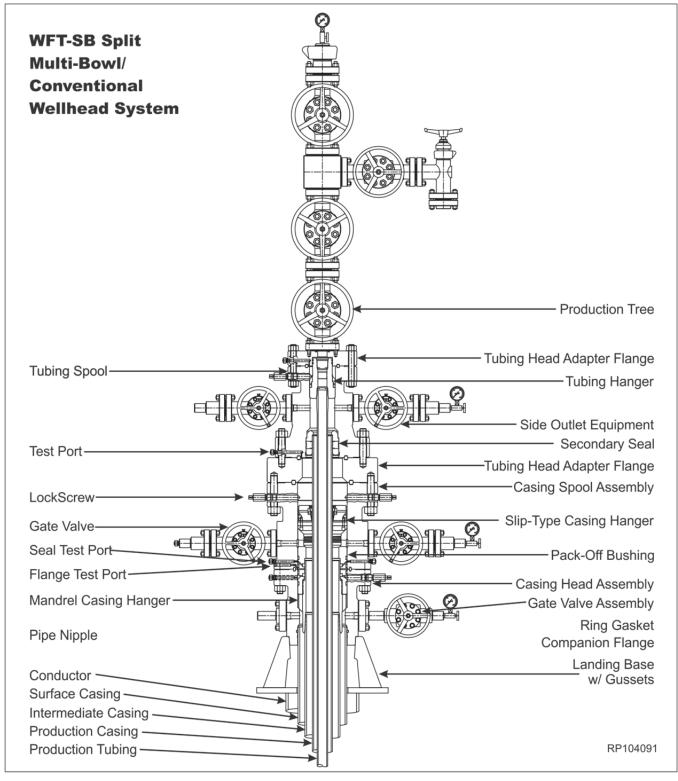
Alternatives to Reduce Flaring

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

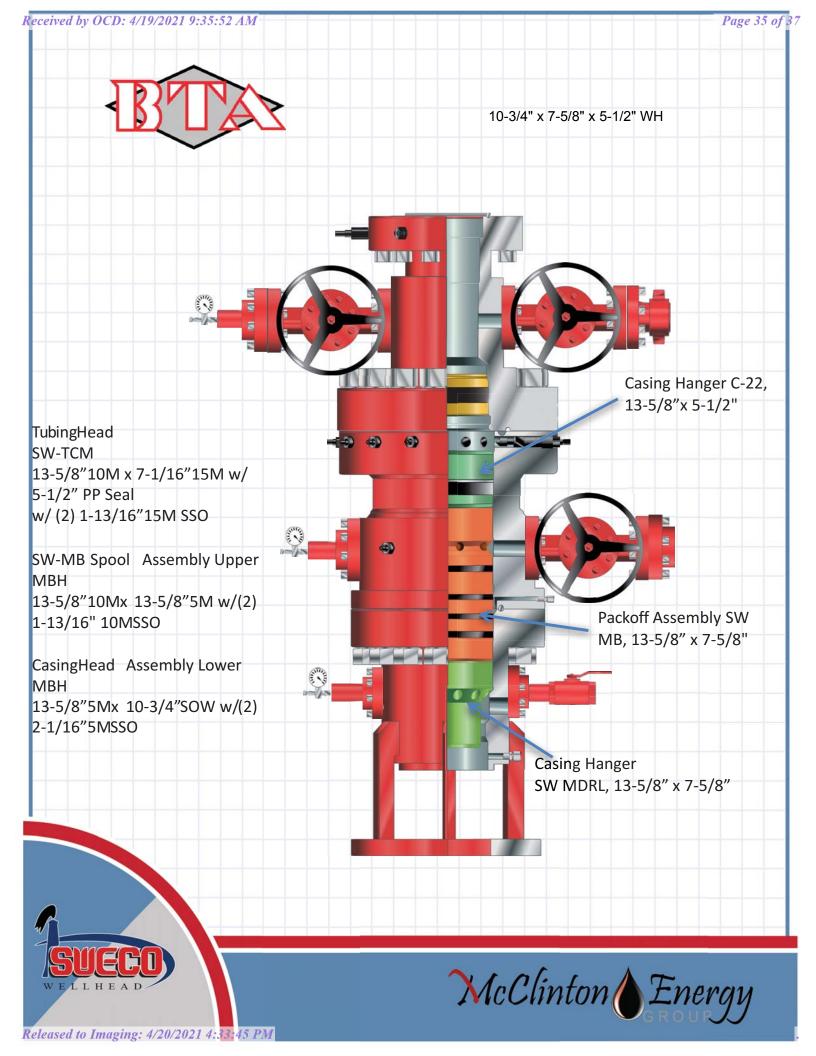
- Power Generation On lease
 - Only a portion of gas is consumed operating the generator, remainder of gas will be flared
- Compressed Natural Gas On lease
 - . Gas flared would be minimal, but might be uneconomical to operate when gas volume declines
- NGL Removal On lease

Released to Imaging: 4/20/2021 4:33:45 PM

WFT Split Bowl (SB) Wellhead System



~	Field Comice	Prepared By:	Reviewed By:	Approved By:	SM-13-1
Weatherford	Field Service Manual	Manior Robertson	Brad Franks	Manual Zaragoza	Rev WIP
wealier for u	Mariaar	Marion Robertson	Brad Franks	Manual Zaragoza	Page 3 of 24
5-3-GL-GL-WES-00XXX		December 2014	December 2014	December 2014	Page 3 01 24



<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720

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

District III
1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

COMMENTS

Action 24468

COMMENTS

Operator:			OGRID:	Action Number:	Action Type:
BTA OIL PRODUCERS, LLC	104 S Pecos	Midland, TX79701	260297	24468	FORM 3160-3

Created By	Comment	Comment Date
kpickford	KP GEO Review 4/20/2021	04/20/2021

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720

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Phone:(505) 334-6178 Fax:(505) 334-6170 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 24468

CONDITIONS OF APPROVAL

Operator:			OGRID:	Action Number:	Action Type:
BTA OIL PRODUCERS, LLC	104 S Pecos	Midland, TX79701	260297	24468	FORM 3160-3

OCD Reviewer	Condition
kpickford	Notify OCD 24 hours prior to casing & cement
kpickford	Will require a File As Drilled C-102 and a Directional Survey with the C-104
kpickford	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string
kpickford	Cement is required to circulate on both surface and intermediate1 strings of casing
kpickford	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system