Form 3160-3
(June 2015)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.

6. If Indian, Allotee or Tribe Name

1a. Type of work: ☐ DRILL ☐ REENTER

1b. Type of Well: ☐ Oil Well ☐ Gas Well ☐ Other

1c. Type of Completion: ☐ Hydraulic Fracturing ☐ Single Zone ☐ Multiple Zone

7. If Unit or CA Agreement, Name and No.

8. Lease Name and Well No.
[327174]

2. Name of Operator
[260297]

9. API Well No.
30-025-48710

3a. Address

3b. Phone No. *(include area code)*

10. Field and Pool, or Exploratory
[98158]

4. Location of Well *(Report location clearly and in accordance with any State requirements.*)*
At surface
At proposed prod. zone

11. Sec., T. R. M. or Blk. and Survey or Area

14. Distance in miles and direction from nearest town or post office*

12. County or Parish

13. State

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No of acres in lease	17. Spacing Unit dedicated to this well
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth	20. BLM/BIA Bond No. in file
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.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification.
6. Such other site specific information and/or plans as may be requested by the BLM.

25. Signature	Name *(Printed/Typed)*	Date
Title		
Approved by *(Signature)*	Name *(Printed/Typed)*	Date
Title	Office	

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

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

GCP Rec 04/15/2021

KZ
04/26/2021

SL

APPROVED WITH CONDITIONS

(Continued on page 2)

*(Instructions on page 2)

Approval Date: 04/12/2021

PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	**BTA Oil Producers LLC**
LEASE NO.:	**NMNM014492**
WELL NAME & NO.:	MESA 8105 1-12 Federal 51H
SURFACE HOLE FOOTAGE:	530'/N & 730'/E
BOTTOM HOLE FOOTAGE	50'/S & 990'/E
LOCATION:	Section 1, T.26 S., R.32 E., NMP
COUNTY:	Lea County, New Mexico

COA

H2S	○ Yes	◉ No	
Potash	◉ None	○ Secretary	○ R-111-P
Cave/Karst Potential	○ 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

Casing Design:

1. The **10-3/4** inch surface casing shall be set at approximately **860 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

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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.
Excess cement calculates to 16%, additional cement might be required.

2. The **7-5/8** inch intermediate casing shall be set at approximately **11,735** feet. 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.**
Excess cement calculates to -46%, 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.
Excess cement calculates to -7%, additional cement might be required.

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 tlead 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 X 5 inch** production casing is:

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

C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'

2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **10,000 (10M)** psi. **Variance is approved to use a 5000 (5M) Annular which shall be tested to 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.

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)

☒ Chaves and Roosevelt Counties
Call the Roswell Field Office, 2909 West Second St., Roswell NM 88201.
During office hours call (575) 627-0272.
After office hours call (575)

☒ Eddy County
Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,

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(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.

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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.

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.

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: 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.

    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.

OTA11022020

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BUREAU OF LAND MANAGEMENT

Application Data Report
04/14/2021

APD ID: 10400057474
Submission Date: 06/04/2020
Operator Name: BTA OIL PRODUCERS LLC
Well Name: MESA 8105 1-12 FEDERAL
Well Number: 51H
Well Type: OIL WELL
Well Work Type: Drill

Highlighted data reflects the most recent changes

Show Final Text

Section 1 - General

APD ID: 10400057474
Tie to previous NOS?
Submission Date: 06/04/2020
BLM Office: CARLSBAD
User: Sammy Hajar
Title: Regulatory Analyst
Federal/Indian APD: FED
Is the first lease penetrated for production Federal or Indian? FED
Lease number: NMNM014492
Lease Acres:
Surface access agreement in place?
Allotted?
Reservation:
Agreement in place? NO
Federal or Indian agreement:
Agreement number:
Agreement name:
Keep application confidential? Y
Permitting Agent? NO
APD Operator: BTA OIL PRODUCERS LLC
Operator letter of designation:

Operator Info

Operator Organization Name: BTA OIL PRODUCERS LLC
Operator Address: 104 S. Pecos
Zip: 79701
Operator PO Box:
Operator City: Midland
State: TX
Operator Phone: (432)682-3753
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: MESA 8105 1-12 FEDERAL
Well Number: 51H
Well API Number:
Field/Pool or Exploratory? Field and Pool
Field Name: WC-025
Pool Name: UPPER WOLFCAMP
Is the proposed well in an area containing other mineral resources? NONE

Operator Name: BTA OIL PRODUCERS LLC

Well Name: MESA 8105 1-12 FEDERAL **Well Number:** 51H

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?** N **New surface disturbance?**

Type of Well Pad: MULTIPLE WELL **Multiple Well Pad Name:** MESA 8105 1-12 FEDERAL **Number:** 50H and 51H

Well Class: HORIZONTAL **Number of Legs:** 1

Well Work Type: Drill

Well Type: OIL WELL

Describe Well Type:

Well sub-Type: INFILL

Describe sub-type:

Distance to town: **Distance to nearest well:** 392 FT **Distance to lease line:** 530 FT

Reservoir well spacing assigned acres Measurement: 320 Acres

Well plat: Signed_Mesa_8105_1_12_Federal_51H_C102_20200527140945.pdf

Well work start Date: 10/26/2021 **Duration:** 30 DAYS

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83 **Vertical Datum:** NGVD29

Survey number: **Reference Datum:** GROUND LEVEL

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	530	FNL	730	FEL	26S	32E	1	Aliquot NENE	32.078347	-103.622246	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 014492	3365	0	0	Y
KOP Leg #1	100	FNL	990	FEL	26S	32E	1	Aliquot NENE	32.079525	-103.62309	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 014492	-8272	11679	11637	Y
PPP Leg #1-1	100	FNL	990	FEL	26S	32E	1	Aliquot NENE	32.079525	-103.62309	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 014492	-8695	12199	12060	Y

Operator Name: BTA OIL PRODUCERS LLC

Well Name: MESA 8105 1-12 FEDERAL **Well Number:** 51H

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	FSL	990	FEL	26S	32E	12	Aliquot SESE	32.050656	-103.623007	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 014492	-8895	22438	12260	Y
BHL Leg #1	50	FSL	990	FEL	26S	32E	12	Aliquot SESE	32.050519	-103.623006	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 014492	-8895	22718	12260	Y

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

Drilling Plan Data Report
04/14/2021

APD ID: 10400057474
Submission Date: 06/04/2020
Operator Name: BTA OIL PRODUCERS LLC
Well Name: MESA 8105 1-12 FEDERAL
Well Number: 51H
Well Type: OIL WELL
Well Work Type: Drill

Highlighted data reflects the most recent changes

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Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical Depth	Measured Depth	Lithologies	Mineral Resources	Producing Formation
746079	QUATERNARY	3365	0	0	ALLUVIUM	NONE	N
746080	RUSTLER	2538	827	827	ANHYDRITE	NONE	N
746081	TOP SALT	2078	1287	1287	SALT	NONE	N
746082	BASE OF SALT	-1257	4622	4622	SALT	NONE	N
746083	DELAWARE	-1475	4840	4840	LIMESTONE	NATURAL GAS, OIL	N
746092	BELL CANYON	-1503	4868	4868	SANDSTONE	NATURAL GAS, OIL	N
746085	CHERRY CANYON	-2867	6232	6232	SANDSTONE	NATURAL GAS, OIL	N
746086	BRUSHY CANYON	-4114	7479	7479	SANDSTONE	NATURAL GAS, OIL	N
746087	BONE SPRING LIME	-5674	9039	9039	LIMESTONE	NATURAL GAS, OIL	N
746088	FIRST BONE SPRING SAND	-6602	9967	9967	SANDSTONE	NATURAL GAS, OIL	N
746089	BONE SPRING 2ND	-7168	10533	10533	SANDSTONE	NATURAL GAS, OIL	N
746090	BONE SPRING 3RD	-8285	11650	11650	SANDSTONE	NATURAL GAS, OIL	N
746091	WOLFCAMP	-8695	12060	12060	SHALE	NATURAL GAS, OIL	Y

Section 2 - Blowout Prevention

Operator Name: BTA OIL PRODUCERS LLC

Well Name: MESA 8105 1-12 FEDERAL **Well Number:** 51H

Pressure Rating (PSI): 10M **Rating Depth:** 14000

Equipment: The blowout preventer equipment (BOP) shown in Exhibit A will consist of a (10M system) double ram type (10,000 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 BOPs will be installed on the 10-3/4" 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 10M 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 10,000 psi WP rating. The 5M annular will be tested as per BLM drilling Operations Order No. 2, and will be test to 100% of working pressure.

Requesting Variance? NO

Variance request:

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 drillers log. All BOPs and associated equipment will be tested as per BLM drilling Operations Order No. 2.

Choke Diagram Attachment:

Choke_Hose___Test_Chart_and_Specs_20190723082742.pdf

10M_choke_mannifold_20200521113335.pdf

BOP Diagram Attachment:

5M_annular_well_control_plan_for_BLM_20200521113411.docx

BLM_10M_BOP_with_5M_annular_20200521113411.pptx

10M_annular_variance_20200521113430.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	14.75	10.75	NEW	API	N	0	500	0	500	3365	2865	500	J-55	40.5	ST&C	7.3	14.5	DRY	20.7	DRY	31.1
2	INTERMEDIATE	9.875	7.625	NEW	API	Y	0	8027	0	8000	3018	-4635	8027	P-110	29.7	BUTT	1.4	2.4	DRY	4	DRY	3.9
3	PRODUCTION	6.75	5.5	NEW	API	Y	0	11535	0	11508	3018	-8143	11535	P-110	20	BUTT	1.3	1.5	DRY	2.9	DRY	2.8
4	INTERMEDIATE	8.75	7.625	NEW	API	Y	8027	11735	8000	11708	-4635	-8343	3708	P-110	29.7	FJ	1.7	1.7	DRY	2.8	DRY	2.7
5	PRODUCTION	6.75	5.0	NEW	API	Y	11535	22718	11508	12260	-8143	-8895	11183	P-110	18	BUTT	1.3	1.4	DRY	1.5	DRY	1.4

Operator Name: BTA OIL PRODUCERS LLC

Well Name: MESA 8105 1-12 FEDERAL **Well Number:** 51H

Casing Attachments

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

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Mesa_51H_casing_assumption_20200527145713.JPG

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

Inspection Document:

Spec Document:

Tapered String Spec:

7_5_8_tapered_string_9_7_8_hole_spec__20200521134254.jpg

Casing Design Assumptions and Worksheet(s):

Mesa_51H_casing_assumption_20200527145814.JPG

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

Inspection Document:

Spec Document:

Tapered String Spec:

5.5_tapered_string_spec_20190930151650.jpg

Casing Design Assumptions and Worksheet(s):

Mesa_51H_casing_assumption_20200527150209.JPG

Operator Name: BTA OIL PRODUCERS LLC

Well Name: MESA 8105 1-12 FEDERAL **Well Number:** 51H

Casing Attachments

Casing ID: 4 **String Type:** INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

7_5_8_tapered_string_8_3_4_hole_spec_for_FJ_20200521140259.jpg

Casing Design Assumptions and Worksheet(s):

Mesa_51H_casing_assumption_20200527145911.JPG

Casing ID: 5 **String Type:** PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

5_tapered_string_spec_20190930151627.jpg

Casing Design Assumptions and Worksheet(s):

Mesa_51H_casing_assumption_20200527150321.JPG

Section 4 - Cement

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	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	4837	0	4415	710	2.19	12.7	1554.9	50	Class C	0.5% CaCl2
INTERMEDIATE	Tail		4415	4837	150	1.33	14.8	199.5	50	Class C	1% CaCl2
INTERMEDIATE	Lead		4837	8185	340	2.64	10.5	897.6	25	Class H	0.5% CaCl2

Operator Name: BTA OIL PRODUCERS LLC

Well Name: MESA 8105 1-12 FEDERAL **Well Number:** 51H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
INTERMEDIATE	Tail		8185	11735	400	1.19	15.6	476	25	Class H	1% CaCl2
PRODUCTION	Lead		10735	11535	0	0	0	0		n/a	n/a
PRODUCTION	Lead		11535	22718	1165	1.27	14.8	1479.55	10	Class H	0.1% Fluid Loss

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)	PH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	500	OTHER : FW SPUD	8.3	8.4							
500	11735	OTHER : DBE	9	9.4							
11735	12260	OIL-BASED MUD	11	14							

Operator Name: BTA OIL PRODUCERS LLC

Well Name: MESA 8105 1-12 FEDERAL **Well Number:** 51H

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:

MUD LOG/GEOLOGICAL LITHOLOGY LOG,GAMMA RAY LOG,CEMENT BOND LOG,

Coring operation description for the well:

None planned

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 8925 **Anticipated Surface Pressure:** 6227

Anticipated Bottom Hole Temperature(F): 179

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:

BTA_Oil_Producers_LLC___EMERGENCY_CALL_LIST_20190723161502.pdf
H2S_Equipment_Schematic_20190723161502.pdf
H2S_Plan_20190723161502.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Mesa_51H_Wall_plot_20200528064919.pdf
Mesa_51H_directional_plan_20200528064919.pdf
Mesa_8105_51H_Gas_Capture_Plan_20200528065138.pdf

Other proposed operations facets description:

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

Other proposed operations facets attachment:

Other Variance attachment:

BTA_MB_10_34___7_58___5_12_20200521143833.pdf

Continental

ContiTech

CONTITECH RUBBER Industrial Kft.	No:QC-DB- 599/ 2014
	Page: 16 / 176

Rig 94 Asset 24455

QUALITY CONTROL INSPECTION AND TEST CERTIFICATE

CERT. N°: 1592

PURCHASER:	ContiTech Oil & Marine Corp.	P.O. N°:	4500461753
CONTITECH ORDER N°:	539225	HOSE TYPE:	3" ID Choke & Kill Hose
HOSE SERIAL N°:	68547	NOMINAL / ACTUAL LENGTH:	7,62 m / 7,66 m

W.P.	T.P.	Duration:
68,9 MPa 10000 psi	103,4 MPa 15000 psi	60 min.

Pressure test with water at ambient temperature

See attachment. (1 page)

→ 10 Min.
↑ 50 MPa

COUPLINGS Type	Serial N°	Quality	Heat N°
3" coupling with	2574 5533	AISI 4130	A1582N H8672
4 1/16" 10K API Swivel Flange end		AISI 4130	58855
Hub		AISI 4130	A1199N A1423N

Not Designed For Well Testing **API Spec 16 C**

Fire Rated **Temperature rate:"B"**

All metal parts are flawless

WE CERTIFY THAT THE ABOVE HOSE HAS BEEN MANUFACTURED IN ACCORDANCE WITH THE TERMS OF THE ORDER INSPECTED AND PRESSURE TESTED AS ABOVE WITH SATISFACTORY RESULT.

STATEMENT OF CONFORMITY: We hereby certify that the above items/equipment supplied by us are in conformity with the terms, conditions and specifications of the above Purchaser Order and that these items/equipment were fabricated inspected and tested in accordance with the referenced standards, codes and specifications and meet the relevant acceptance criteria and design requirements.

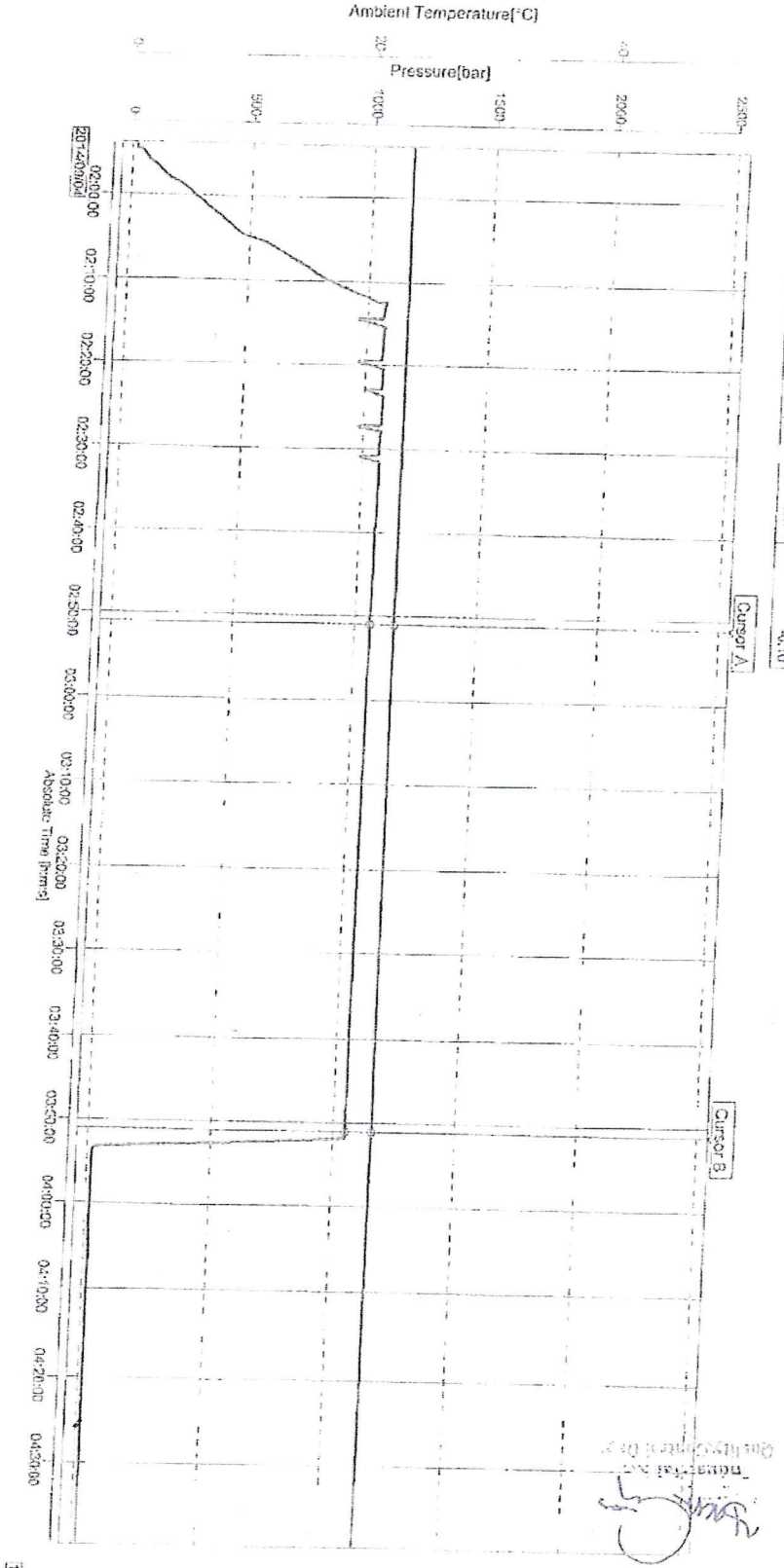
Date:	Inspector	Quality Control
04. September 2014.		ContiTech Rubber Industrial Kft. Quality Control Dept.

File Name : 000220_68543,68545-547.GEV,....,000236_68543,68545-547.GEV
File Message : 68543,68545,68547
Device Type : GX10
Serial No. : S5P606389
Data Count : 9048

Print Group : Press-Temp
Print Range : 2014/09/04 01:53:54.000 - 2014/09/04 04:39:39.000
Comment :

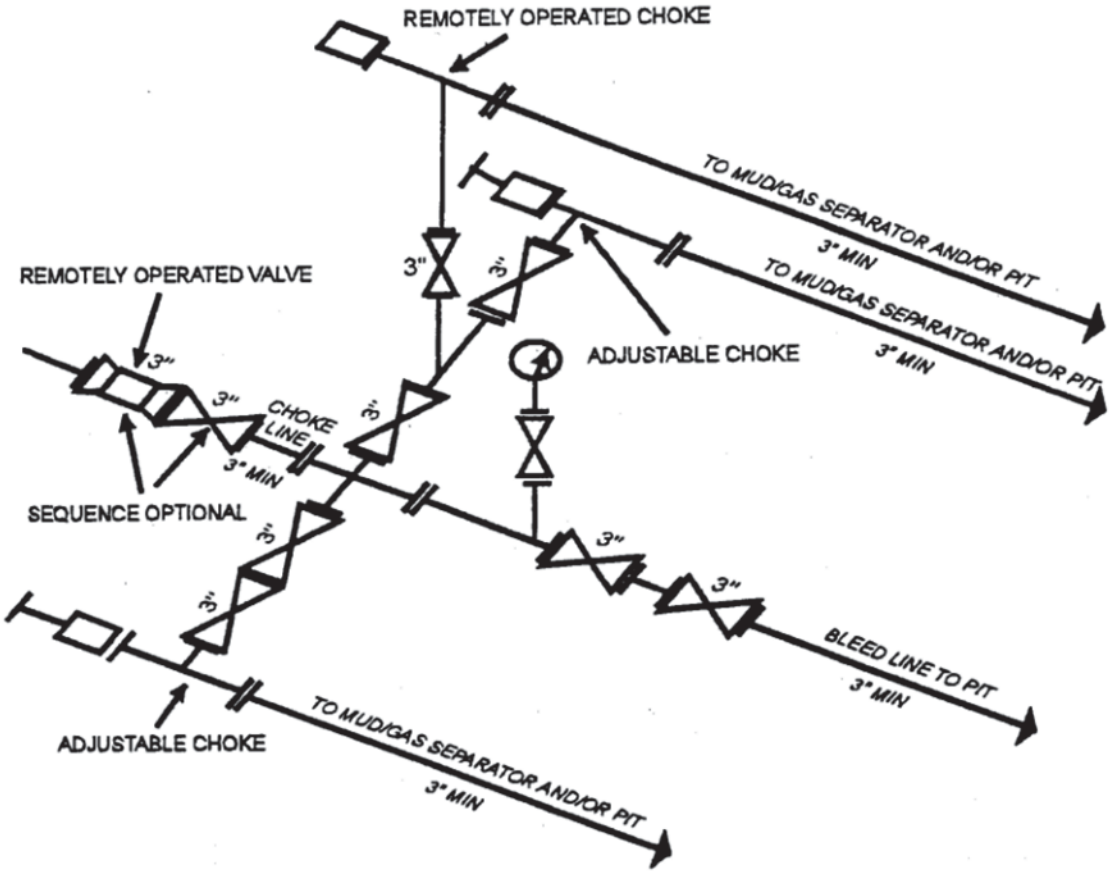
Sampling Int. : 1.000 sec
Start Time : 2014/09/04 01:53:54.000
Stop Time : 2014/09/04 04:39:39.000

	Data No.	Cursor A	Cursor B	Difference
Absolute Time		3432	7032	3600
		2014/09/04 02:51:05.000	2014/09/04 03:51:05.000	01:00:00.000
Tag Comment				
Pressure[bar]	Value A		Value B	Value B-A
	1092.95		1045.57	-14.39
Ambient Temperature[°C]	23.24		23.14	-0.10



ATTACHMENT OF QUALITY CONTROL INSPECTION AND TEST CERTIFICATE No: 1588, 1590, 1592

Page: 1 / 1



10M AND 15M CHOKE MANIFOLD EQUIPMENT - CONFIGURATION OF CHOKES MAY VARY
[53 FR 49661, Dec. 9, 1988 and 54 FR 39528, Sept. 27, 1989]

Well control plan for 10M BOPE with 5M annular

Drilling

1. Sound alarm (alert crew).
2. Space out drill string.
3. Shut down pumps (stop pumps and rotary).
4. Shut-in Well with annular with HCR and choke in closed position.
5. Confirm shut-in.
6. Notify tool pusher/company representative.
7. Read and record the following:

a. SIDPP & SICP

b. Time of shut in

c. Pit gain

8. Regroup and identify forward plan. If pressure has increased to 2500 psi, confirm spacing and close the upper variable bore rams.
9. Prepare for well kill operation.

Tripping

1. Sound alarm (alert rig crew)
2. Stab full opening safety valve and close valve
3. Sapce out drill string
4. Shut in the well with the annular with HCR and choke in closed position
5. Confirm shut in
6. Notify tool pusher/company representative
7. Read and record the following

a. Time of shut in

b. SIDPP and SICP

c. Pit gain

8. If pressure has increased to 2500 psi, confirm spacing and close the upper most variable bore ram.
9. Prepare for well kill operation.

While Running Casing

1. Sound alarm (alert rig crew)
2. Stab crossover and full opening safety valve and close valve
3. Space out casing string
4. Shut in well with annular with HCR and choke in closed position
5. Confirm shut in
6. Notify tool pusher/company representative
7. Read and record the following:

a. SIDPP & SICP

b. Pit gain

c. Time

8. If pressure has increased to 2500 psi, confirm spacing and close the upper most variable bore ram.
9. Prepare for well kill operation.

No Pipe In Hole (Open Hole)

1. Sound alarm (alert rig crew)

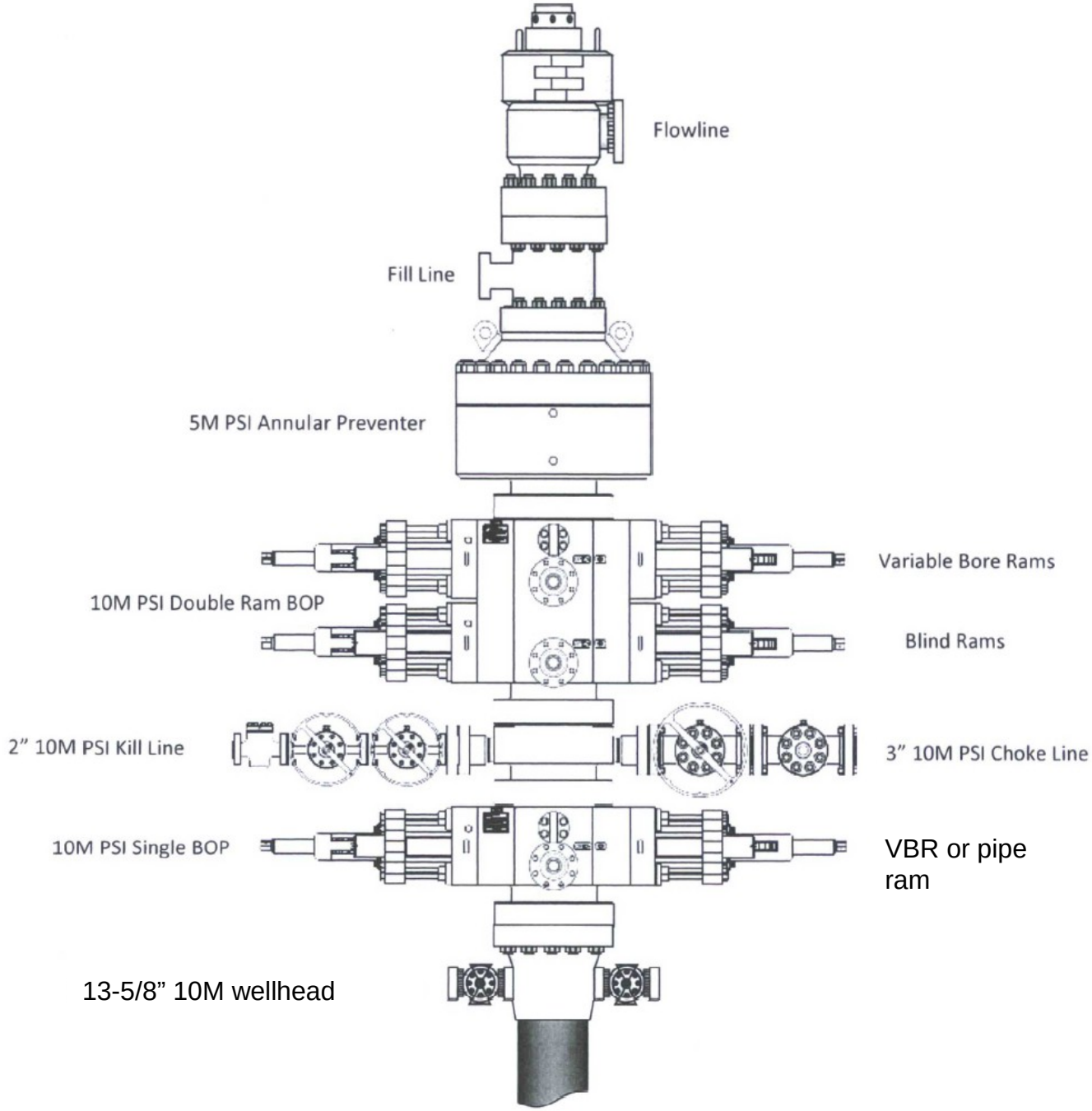
Well control plan for 10M BOPE with 5M annular

2. Shut in blind rams with HCR and choke in closed position
3. Confirm shut in
4. Notify tool pusher/company representative
5. Read and record the following:
   a. SICP
   b. Pit gain
   c. Time
6. Prepare for well kill operation

Pulling BHA thru Stack

1. Prior to pulling last joint of drill pipe thru the stack
   a. Perform flow check, if flowing:
      a.i. Sound Alarm (alert crew)
      a.ii. Stab full opening safety valve and close valve
      a.iii. Space out drill string
      a.iv. Shut in using upper most VBR, choke and HCR in closed positon
      a.v. Confirm shut in
      a.vi. Notify tool pusher/company representative.
      a.vii. Read and record the following:
         a.vii.1. SIDPP and SICP
         a.vii.2. Pit gain
         a.vii.3. Time
      a.viii. Prepare for well kill operation
2. With BHA in the stack:
   a. If possible pull BHA clear of stack
      a.i. Follow ‘open hole’ procedure above
   b. If unable to pull BHA clear of stack
      b.i. Stab crossover with full opening safety valve, close valve.
      b.ii. Space out
      b.iii. Shut in using upper most VBR. HCR and choke in closed position.
      b.iv. Confirm shut in
      b.v. Notify tool pusher/company rep
      b.vi. Read and record the following:
         b.vi.1. SIDPP and SICP
         b.vi.2. Pit gain
         b.vi.3. Time
      b.vii. Prepare for well kill operation

13-5/8” 10M PSI BOP Stack



Drilling component and preventer compatibility table for 10M approval

The following table outlines the drilling and production liner components for Wolfcamp targets requiring 10M BOPE approval. Variance is requested to utilize a 5M annular preventer in 6-1/8" hole as all components can be covered using 10M rated VBR's (variable bore rams). 5M annular on the 10M system will be tested to 100% of rated working pressure.

6-1/8" hole section – 10M BOPE requirement (13-5/8" BOP)			
Component	**OD**	**Preventer**	**RWP**
Drill pipe	4"	3.5"-5.5" VBR	10M
HWDP	4"	3.5"-5.5" VBR	10M
Jars	5"	3.5"-5.5" VBR	10M
DC's and NMDC's	4-3/4"	3.5"-5.5" VBR	10M
Mud motor	5"	3.5"-5.5" VBR	10M
Casing	4-1/2"	3.5"-5.5" VBR	10M
Open hole	NA	Blind rams	10M

12-1/4" & 8-3/4" hole sections – 5M BOPE requirement (13-5/8" BOP)			
Component	**OD**	**Preventer**	**RWP**
Drill pipe	5"	3.5"-5.5" VBR or 5" pipe rams	10M
HWDP	5"	3.5"-5.5" VBR or 5" pipe rams	10M
Jars	6-1/4"	Annular	5M
DC's and NMDC's	7"-8"	Annular	5M
Mud motor	7"-8"	Annular	5M
Casing	9-5/8" & 7"	Annular	5M
Open hole	NA	Blind rams	10M

DIMENSIONS AND

Size O.D. In.	Grade	Wt. Per Ft. With Cplg., Lb.	Inside Dia. In.	Thread & Cplg.		Extreme Line		Collapse Resistance PSI
				Drift Dia. In.	O.D. of Cplg. In.	Drift Dia. In.	O.D. of Box In.	
5	C-75*	20.30	4.184	—	—	4.059	5.094	11,240
	C-75*	23.20	4.044	—	—	3.919	5.094‡	12,970
	HCL-80+	15.00	4.408	4.283	—	—	—	9,380
	HCL-80+	18.00	4.276	4.151	—	—	—	11,880
	HCL-80+	23.20	4.044	3.919	—	—	—	15,820
	HCN-80+	15.00	4.408	4.283	—	—	—	9,360
	HCN-80+	18.00	4.276	4.151	—	—	—	11,880
	HCN-80+	23.20	4.044	3.919	—	—	—	15,820
	L-80	15.00	4.408	4.283	—	—	—	7,250
	L-80	24.10	4.000	3.875	—	—	—	14,400
	L-80	18.00	4.276	4.151	—	—	—	10,500
	L-80	21.40	4.126	4.001	—	—	—	12,760
	L-80	23.20	4.044	3.919	—	—	—	13,830
	N-80	15.00	4.408	4.283	5.563	4.151	5.360	7,250
	N-80	18.00	4.276	4.151	5.563	4.151	5.360	10,490
	N-80	20.30	4.184	—	—	4.059	5.250	11,990
	N-80	23.20	4.044	—	—	3.919	5.094‡	13,830
	N-80	21.40	4.126	4.001	—	—	—	12,760
	N-80	24.10	4.000	3.875	—	—	—	14,400
	C-90	15.00	4.408	4.233	—	—	—	7,840
	C-90	18.00	4.276	4.151	—	—	—	11,530
	C-90	21.40	4.126	4.001	—	—	—	14,360
	C-90	23.20	4.044	3.919	—	—	—	15,560
	C-90	24.10	4.000	3.875	—	—	—	16,200
	C-95	15.00	4.408	4.283	5.563	4.151	5.360	8,090
	C-95	18.00	4.276	4.151	5.563	4.151	5.360	12,010
	C-95	20.30	4.184	—	—	4.059	5.250	14,250
	C-95	23.20	4.044	—	—	3.919	5.094‡	16,430
	C-95	21.40	4.126	4.001	—	—	—	15,160
	C-95	24.10	4.000	3.875	—	—	—	17,100
	S-95+	15.00	4.408	4.283	—	—	—	9,380
	S-95+	18.00	4.276	4.151	—	—	—	12,030
	S-95+	23.20	4.044	3.919	—	—	—	16,430
	T-95	15.00	4.408	4.283	—	—	—	8,110
	T-95	18.00	4.276	4.151	—	—	—	12,030
	T-95	21.40	4.126	4.001	—	—	—	15,160
	T-95	23.20	4.044	3.919	—	—	—	16,430
	T-95	24.10	4.000	3.875	—	—	—	17,100
	P-110	15.00	4.408	4.283	5.563	4.151	5.360	8,830
	P-110	18.00	4.276	4.151	5.563	4.151	5.360	13,450
	P-110	20.30	4.184	—	—	4.059	5.094‡	16,490

NO. 203

STRENGTHS OF CASING

Plain End or Ext. Line	Internal Yield Pressure PSI** Round Thread Short	Round Thread Long	Buttress Thd.	Body Yield Strgth. 1,000 Lbs.	Joint Strength - 1000 Lbs.** Threaded & Cplg. Joint Round Thread Short	Round Thread Long	Buttress Thd.	Ext. Line Joint
10,710	—	—	—	—	369†	—	—	529‡‡
12,550	—	—	—	—	369†	—	—	529‡‡
8,290	—	8,290	8,290	—	—	311	408	—
10,140	—	10,140	9,910	422	—	396	492	—
13,380	—	10,810	9,910	543	—	540	518	—
8,290	—	8,290	8,290	350	—	311	408	—
10,140	—	10,140	9,910	422	—	396	492	—
13,380	—	10,810	9,910	543	—	540	537	—
8,290	—	8,290	8,290	350	—	295	379	—
14,000	—	10,810	9,910	566	—	538	510	—
10,140	—	10,140	9,910	422	—	377	457	—
12,240	—	10,810	9,910	501	—	466	510	—
13,380	—	10,810	9,910	543	—	513	510	—
8,290	—	8,290	8,290	350	—	311	396	437
10,140	—	10,140	9,910	422	—	396	477	469
11,420	—	—	—	—	388†	284††	363‡	556‡‡
13,380	—	—	—	—	388†	284††	363‡	556‡‡
12,240	—	10,810	9,910	501	—	490	537	—
14,000	—	10,810	9,910	566	—	558	537	—
9,320	—	9,320	9,320	394	—	311	404	—
11,400	—	11,400	11,150	475	—	396	484	—
13,770	—	12,170	11,150	564	—	490	537	—
15,060	—	12,170	11,150	611	—	540	537	—
15,750	—	12,170	11,150	636	—	567	537	—
9,840	—	9,840	9,840	416	—	326	424	459
12,040	—	12,040	11,770	501	—	416	512	493
13,560	—	—	—	—	—	—	—	584‡‡
15,890	—	—	—	—	—	—	—	584‡‡
14,530	—	12,840	11,770	595	—	515	563	—
16,630	—	12,840	11,770	672	—	595	563	—
9,840	—	9,840	9,840	416	—	342	441	—
12,040	—	12,040	11,770	501	—	436	532	—
15,890	—	12,840	11,770	645	—	594	590	—
9,840	—	9,840	9,840	416	—	326	424	—
12,040	—	12,040	11,770	501	—	416	512	—
14,530	—	12,840	11,770	595	—	515	563	—
15,890	—	12,840	11,770	645	—	567	563	—
16,630	—	12,840	11,770	672	—	595	563	—
11,400	—	11,400	11,400	481	—	388	503	547
13,940	—	13,940	13,620	580	—	495	606	587
15,710	—	—	—	—	495†	—	—	—

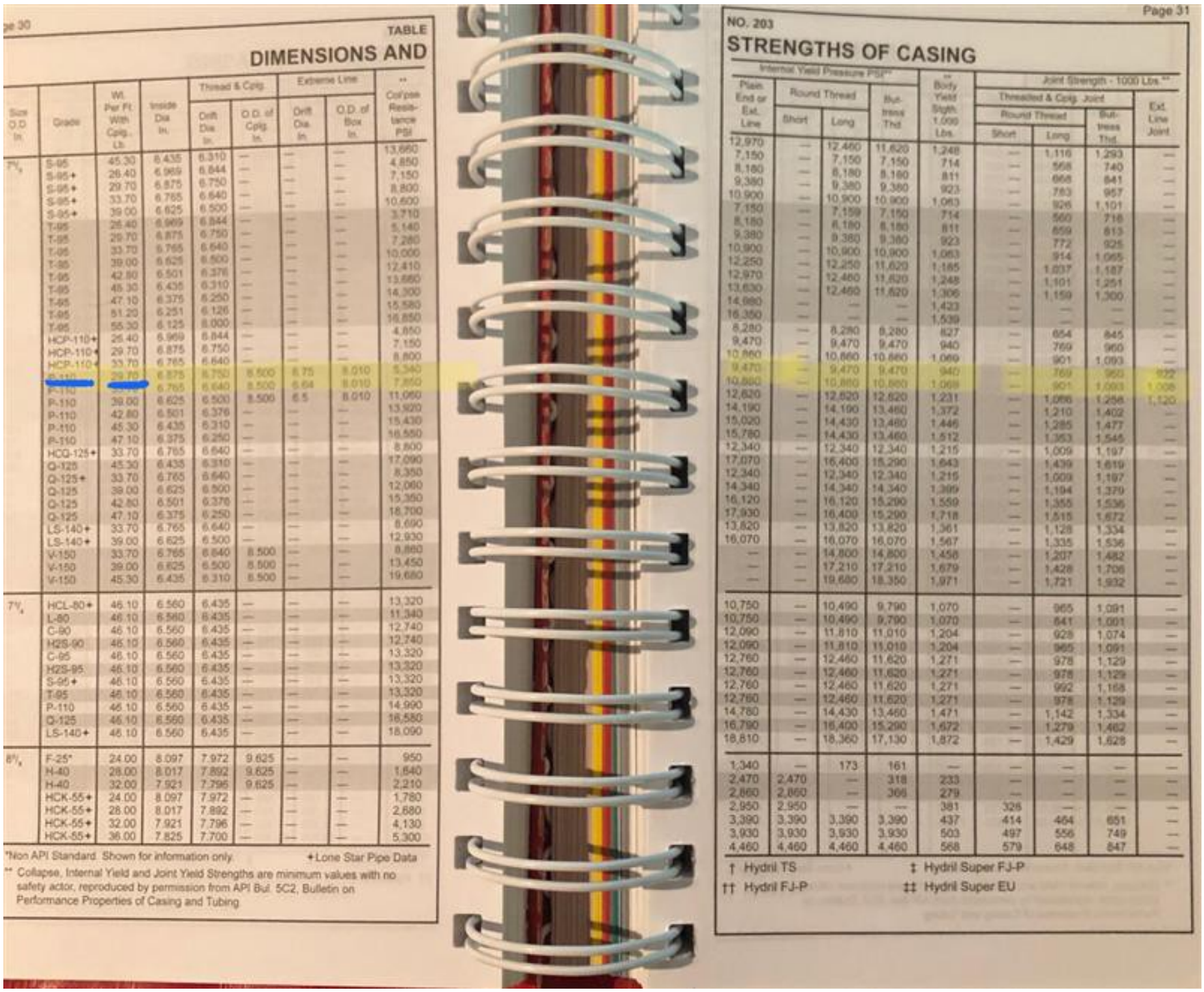


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TABLE

DIMENSIONS AND

Size O.D. In.	Grade	Wt. Per Ft. With Cplg. Lb.	Inside Dia. In.	Thread & Cplg. Drift Dia. In.	Thread & Cplg. O.D. of Cplg. In.	Extreme Line Drift Dia. In.	Extreme Line O.D. of Box In.	** Collapse Resistance PSI
7⅝	S-95	45.30	6.435	6.310	—	—	—	13,660
	S-95+	26.40	6.969	6.844	—	—	—	4,850
	S-95+	29.70	6.875	6.750	—	—	—	7,150
	S-95+	33.70	6.765	6.640	—	—	—	8,800
	S-95+	39.00	6.625	6.500	—	—	—	10,600
	T-95	26.40	6.969	6.844	—	—	—	3,710
	T-95	29.70	6.875	6.750	—	—	—	5,140
	T-95	33.70	6.765	6.640	—	—	—	7,280
	T-95	39.00	6.625	6.500	—	—	—	10,000
	T-95	42.80	6.501	6.376	—	—	—	12,410
	T-95	45.30	6.435	6.310	—	—	—	13,660
	T-95	47.10	6.375	6.250	—	—	—	14,300
	T-95	51.20	6.251	6.126	—	—	—	15,580
	T-95	55.30	6.125	6.000	—	—	—	16,850
	HCP-110+	26.40	6.969	6.844	—	—	—	4,850
	HCP-110+	29.70	6.875	6.750	—	—	—	7,150
	HCP-110+	33.70	6.765	6.640	—	—	—	8,800
	[illegible]	29.70	6.875	6.750	8.500	6.75	8.010	5,340
	[illegible]	[illegible]	6.765	6.640	8.500	6.64	8.010	7,850
	P-110	39.00	6.625	6.500	8.500	6.5	8.010	11,060
	P-110	42.80	6.501	6.376	—	—	—	13,920
	P-110	45.30	6.435	6.310	—	—	—	15,430
	P-110	47.10	6.375	6.250	—	—	—	16,550
	HCQ-125+	33.70	6.765	6.640	—	—	—	8,800
	Q-125	45.30	6.435	6.310	—	—	—	17,090
	Q-125+	33.70	6.765	6.640	—	—	—	8,350
	Q-125	39.00	6.625	6.500	—	—	—	12,060
	Q-125	42.80	6.501	6.376	—	—	—	15,350
	Q-125	47.10	6.375	6.250	—	—	—	18,700
	LS-140+	33.70	6.765	6.640	—	—	—	8,690
	LS-140+	39.00	6.625	6.500	—	—	—	12,930
	V-150	33.70	6.765	6.640	8.500	—	—	8,860
	V-150	39.00	6.625	6.500	8.500	—	—	13,450
	V-150	45.30	6.435	6.310	8.500	—	—	19,680
7¾	HCL-80+	46.10	6.560	6.435	—	—	—	13,320
	L-80	46.10	6.560	6.435	—	—	—	11,340
	C-90	46.10	6.560	6.435	—	—	—	12,740
	H2S-90	46.10	6.560	6.435	—	—	—	12,740
	C-95	46.10	6.560	6.435	—	—	—	13,320
	H2S-95	46.10	6.560	6.435	—	—	—	13,320
	S-95+	46.10	6.560	6.435	—	—	—	13,320
	T-95	46.10	6.560	6.435	—	—	—	13,320
	P-110	46.10	6.560	6.435	—	—	—	14,990
	Q-125	46.10	6.560	6.435	—	—	—	16,580
	LS-140+	46.10	6.560	6.435	—	—	—	18,090
8⅝	F-25*	24.00	8.097	7.972	9.625	—	—	950
	H-40	28.00	8.017	7.892	9.625	—	—	1,640
	H-40	32.00	7.921	7.796	9.625	—	—	2,210
	HCK-55+	24.00	8.097	7.972	—	—	—	1,780
	HCK-55+	28.00	8.017	7.892	—	—	—	2,680
	HCK-55+	32.00	7.921	7.796	—	—	—	4,130
	HCK-55+	36.00	7.825	7.700	—	—	—	5,300

*Non API Standard. Shown for information only. +Lone Star Pipe Data

** Collapse, Internal Yield and Joint Yield Strengths are minimum values with no safety actor, reproduced by permission from API Bul. 5C2, Bulletin on Performance Properties of Casing and Tubing.

NO. 203

Page 31

STRENGTHS OF CASING

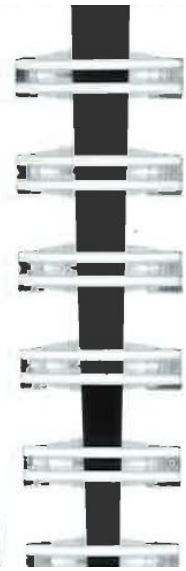
Internal Yield Pressure PSI** Plain End or Ext. Line	Round Thread Short	Round Thread Long	Buttress Thd.	** Body Yield Strength 1,000 Lbs.	Joint Strength - 1000 Lbs.** Threaded & Cplg. Joint Round Thread Short	Round Thread Long	Buttress Thd.	Ext. Line Joint
12,970	—	12,460	11,620	1,248	—	1,116	1,293	—
7,150	—	7,150	7,150	714	—	568	740	—
8,180	—	8,180	8,180	811	—	668	841	—
9,380	—	9,380	9,380	923	—	783	957	—
10,900	—	10,900	10,900	1,063	—	926	1,101	—
7,150	—	7,159	7,150	714	—	560	716	—
8,180	—	8,180	8,180	811	—	659	813	—
9,380	—	9,380	9,380	923	—	772	925	—
10,900	—	10,900	10,900	1,063	—	914	1,065	—
12,250	—	12,250	11,620	1,185	—	1,037	1,187	—
12,970	—	12,460	11,620	1,248	—	1,101	1,251	—
13,630	—	12,460	11,620	1,306	—	1,159	1,309	—
14,980	—	—	—	1,423	—	—	—	—
16,350	—	—	—	1,539	—	—	—	—
8,280	—	8,280	8,280	827	—	654	845	—
9,470	—	9,470	9,470	940	—	769	960	—
10,860	—	10,860	10,860	1,069	—	901	1,093	—
9,470	—	9,470	9,470	940	—	769	960	922
10,860	—	10,860	10,860	1,069	—	901	1,093	1,006
12,620	—	12,620	12,620	1,231	—	1,056	1,256	1,120
14,190	—	14,190	13,460	1,372	—	1,210	1,402	—
15,020	—	14,430	13,460	1,446	—	1,285	1,477	—
15,780	—	14,430	13,460	1,512	—	1,353	1,545	—
12,340	—	12,340	12,340	1,215	—	1,009	1,197	—
17,070	—	16,400	15,290	1,643	—	1,439	1,619	—
12,340	—	12,340	12,340	1,215	—	1,009	1,197	—
14,340	—	14,340	14,340	1,399	—	1,194	1,379	—
16,120	—	16,120	15,290	1,559	—	1,355	1,536	—
17,930	—	16,400	15,290	1,718	—	1,515	1,672	—
13,820	—	13,820	13,820	1,361	—	1,128	1,334	—
16,070	—	16,070	16,070	1,567	—	1,335	1,536	—
—	—	14,800	14,800	1,456	—	1,207	1,482	—
—	—	17,210	17,210	1,679	—	1,428	1,706	—
—	—	19,680	18,350	1,971	—	1,721	1,932	—
10,750	—	10,490	9,790	1,070	—	965	1,091	—
10,750	—	10,490	9,790	1,070	—	841	1,001	—
12,090	—	11,810	11,010	1,204	—	928	1,074	—
12,090	—	11,810	11,010	1,204	—	965	1,091	—
12,760	—	12,460	11,620	1,271	—	978	1,129	—
12,760	—	12,460	11,620	1,271	—	978	1,129	—
12,760	—	12,460	11,620	1,271	—	992	1,168	—
12,760	—	12,460	11,620	1,271	—	978	1,129	—
14,780	—	14,430	13,460	1,471	—	1,142	1,334	—
16,790	—	16,400	15,290	1,672	—	1,279	1,462	—
18,810	—	18,360	17,130	1,872	—	1,429	1,628	—
1,340	—	173	161	—	—	—	—	—
2,470	2,470	—	318	233	—	—	—	—
2,860	2,860	—	366	279	—	—	—	—
2,950	2,950	—	—	381	326	—	—	—
3,390	3,390	3,390	3,390	437	414	464	651	—
3,930	3,930	3,930	3,930	503	497	556	749	—
4,460	4,460	4,460	4,460	568	579	648	847	—

† Hydril TS ‡ Hydril Super FJ-P

†† Hydril FJ-P ‡‡ Hydril Super EU

DIMENSIONS AND

Size O.D. In.	Grade	Wt. Per Ft. With Cplg., Lb.	Inside Dia. In.	Thread & Cplg.		Extreme Line		** Collapse Resistance PSI
				Drift Dia. In.	O.D. of Cplg. In.	Drift Dia. In.	O.D. of Box In.	
5½	T-95	29.70	4.376	4.251	—	—	—	17,430
	T-95	32.60	4.250	4.125	—	—	—	19,140
	T-95	35.30	4.126	4.001	—	—	—	20,760
	T-95	38.00	4.000	3.875	—	—	—	22,380
	T-95	40.50	3.876	3.751	—	—	—	23,920
	T-95	43.10	3.750	3.625	—	—	—	25,400
	HCP-110✦	17.00	4.892	4.767	—	—	—	8,580
	P-110	17.00	4.892	4.767	6.050	4.653	5.860	7,460
	P-110	20.00	4.778	4.653	6.050	4.653	5.860	11,080
	P-110	23.00	4.670	4.545	6.050	4.545	5.860	14,520
	P-110*	26.00	4.548	—	—	4.423	5.656‡	17,390
	HCQ-125✦	17.00	4.892	4.767	—	—	—	8,580
	Q-125✦	17.00	4.892	4.767	—	—	—	7,890
	Q-125✦	20.00	4.778	4.653	—	—	—	12,080
	Q-125	23.00	4.670	4.545	—	—	—	16,070
	Q-125✦	26.00	4.548	4.423	—	—	—	19,770
	LS-140✦	17.00	4.892	4.767	—	—	—	8,580
	LS-140✦	20.00	4.778	4.653	—	—	—	12,950
	LS-140✦	23.00	4.670	4.545	—	—	—	17,500
	V-150	20.00	4.778	4.653	—	—	—	13,460
	V-150*	20.00	4.778	4.653	6.050	—	—	13,480
	V-150*	23.00	4.670	4.545	6.050	—	—	18,390
	V-150*	26.00	4.548	4.423	6.050	—	—	23,720



STRENGTHS OF CASING

Internal Yield Pressure PSI**				** Body Yield Strgth. 1,000 Lbs.	Joint Strength - 1000 Lbs.**			
Plain End or Ext. Line	Round Thread		Buttress Thd.		Threaded & Cplg. Joint			Ext. Line Joint
	Short	Long			Round Thread		Buttress Thd.	
					Short	Long		
16,990	—	—	—	828	—	—	—	—
18,810	—	—	—	909	—	—	—	—
20,770	—	—	—	987	—	—	—	—
22,670	—	—	—	1,063	—	—	—	—
24,540	—	—	—	1,136	—	—	—	—
26,450	—	—	—	1,208	—	—	—	—
10,640	—	10,640	10,640	546	—	445	568	—
10,640	—	10,640	10,640	546	—	445	568	620
12,640	—	12,640	12,360	641	—	548	667	654
14,520	—	13,580	12,360	729	—	643	724	722
16,660	—	—	—	—	569†	393††	564‡	892‡‡
12,090	—	12,090	12,090	620	—	481	620	—
12,090	—	12,090	12,090	620	—	481	620	—
14,360	—	14,360	14,050	729	—	592	728	—
16,510	—	15,430	14,050	829	—	694	782	—
18,930	—	15,430	14,050	939	—	808	782	—
13,540	—	13,540	13,540	695	—	534	890	—
16,080	—	16,080	15,740	816	—	657	810	—
18,490	—	17,290	15,740	928	—	771	869	—
17,230	—	17,230	16,860	874		701	865	—
—	—	17,230	16,860	874	—	701	908	—
—	—	18,520	16,860	994	—	823	910	—
—	—	22,720	—	—	—	—	—	722‡
11,870	—	9,880	8,990	617				

7.625 29.7# P-110 HC Stinger™

Pipe Body Data

Nominal OD	7.625	Inches
Wall Thickness	0.375	Inches
Weight	29.70	lb/ft
PE Weight	29.04	lb/ft
Nominal ID	6.875	Inches
Drift	6.750	Inches
Minimum Yield Strength	110,000	PSI
Minimum Tensile Strength	125,000	PSI
RBW	87.5%	Rating

Make-Up torques

Yield torque	25,960	LBS.
Max Operating Torque	23,600	LBS.
Max Make-Up	18,900	LBS.
Optimum Make-Up	17,200	LBS.
Minimum Make-Up	15,500	LBS.

Connection Data

Connection OD	7.625	Inches
Connection ID	6.875	Inches
Make-Up loss	3.030	Inches
Tension Efficiency	60%	Rating
Compression Efficiency	60%	Rating
Yield Strength in Tension	564,000	LBS.
Yield Strength in Compression	564,000	LBS.
MIYP (Burst)	7,570	PSI
Collapse Pressure	6,150	PSI
Uniaxial Bending	-	degrees

Technical Sales Support: Rafael Escamilla Jr., Cell: 281-949-7704, jescamilla@ofsint.com

Product is sold by OFSI under a license from Fermata Technologies, LLC

BTA Oil Producers, LLC
104 S Pecos
Midland, TX 79701

WELL: Mesa 8105 Fed #51H (WUAP)
TVD: 12260
MD: 22718

DRILLING PLAN

Casing Program

Hole Size	Csg.Size	From (MD)	To (MD)	From (TVD)	To (TVD)	Tapered String	Weight (lbs)	Grade	Conn.	Collapse	Burst	Body Tension	Joint Tension	Dry/ Buoyant	Mud Weight (ppg)
14 3/4	10 3/4	0	500	0	500	No	40.5	J-55	STC	7.3	14.5	31.1	20.7	Dry	8.3
9 7/8	7 5/8	0	8027	0	8000	yes	29.7	P110	Buttress	1.4	2.4	3.9	4.0	Dry	9.4
8 3/4	7 5/8	8027	11735	8000	11708	yes	29.7	P110	FJ	1.7	1.7	2.7	2.8	Dry	9.4
6 3/4	5 1/2	0	11535	0	11508	Yes	20	P110	Buttress	1.3	1.5	2.8	2.9	Dry	14
6 3/4	5	11535	22718	11508	12260	Yes	18	P110	Buttress	1.3	1.4	1.4	1.5	Dry	14

*7 5/8" has DV Tool @ 4837'

BTA Oil Producers, LLC
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Midland, TX 79701

WELL: Mesa 8105 Fed #51H (WUAP)
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MD: 22718

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Casing Program

Hole Size	Csg.Size	From (MD)	To (MD)	From (TVD)	To (TVD)	Tapered String	Weight (lbs)	Grade	Conn.	Collapse	Burst	Body Tension	Joint Tension	Dry/ Buoyant	Mud Weight (ppg)
14 3/4	10 3/4	0	500	0	500	No	40.5	J-55	STC	7.3	14.5	31.1	20.7	Dry	8.3
9 7/8	7 5/8	0	8027	0	8000	yes	29.7	P110	Buttress	1.4	2.4	3.9	4.0	Dry	9.4
8 3/4	7 5/8	8027	11735	8000	11708	yes	29.7	P110	FJ	1.7	1.7	2.7	2.8	Dry	9.4
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Casing Program

Hole Size	Csg.Size	From (MD)	To (MD)	From (TVD)	To (TVD)	Tapered String	Weight (lbs)	Grade	Conn.	Collapse	Burst	Body Tension	Joint Tension	Dry/ Buoyant	Mud Weight (ppg)
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6 3/4	5 1/2	0	11535	0	11508	Yes	20	P110	Buttress	1.3	1.5	2.8	2.9	Dry	14
6 3/4	5	11535	22718	11508	12260	Yes	18	P110	Buttress	1.3	1.4	1.4	1.5	Dry	14

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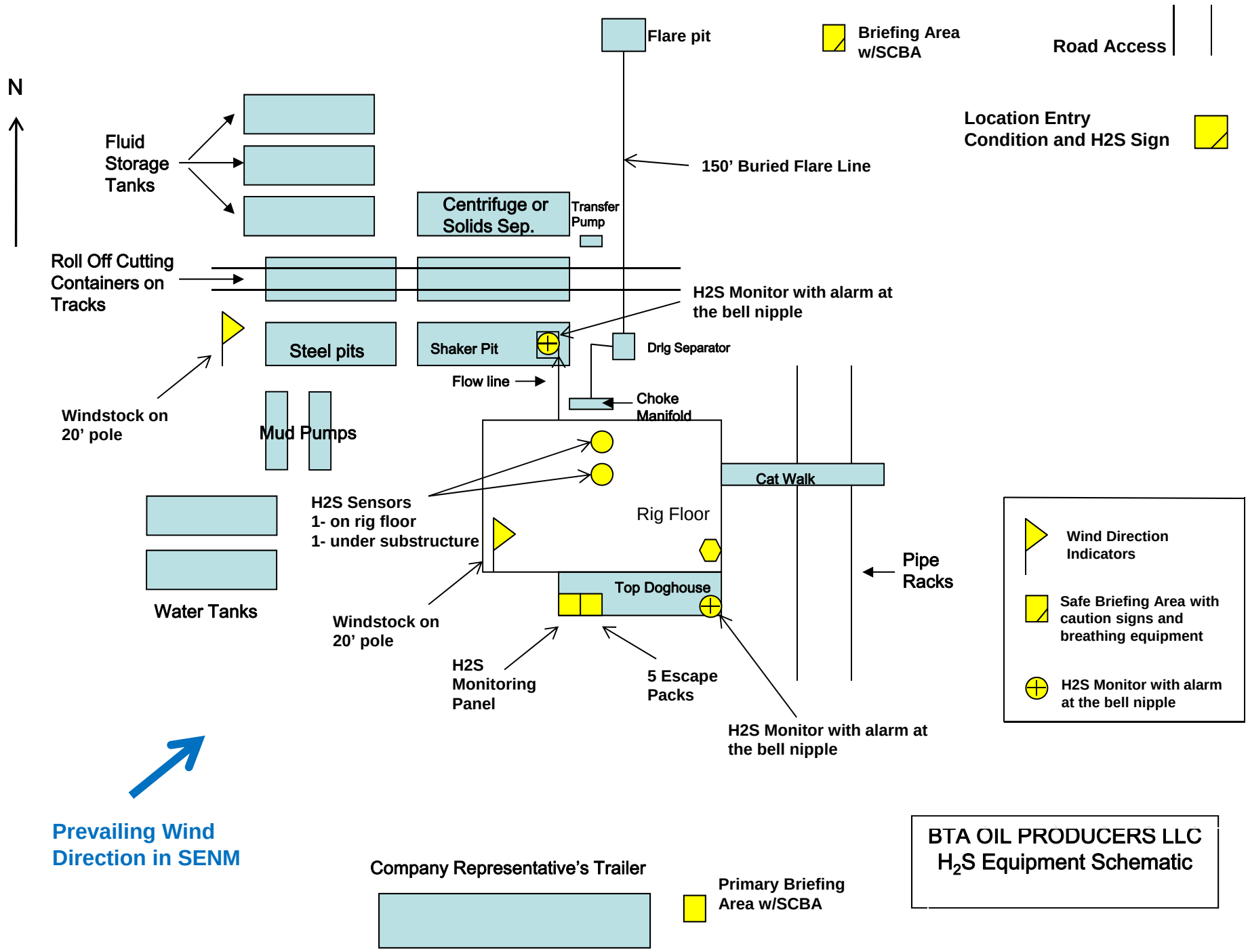
*7 5/8" has DV Tool @ 4837'

EMERGENCY CALL LIST

	OFFICE	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

	OFFICE
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
H_2S Equipment Schematic

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 (H_2S).
b. The proper use and maintenance of personal protective equipment and life support systems.
c. The proper use of H_2S 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 H_2S 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. H_2S SAFETY EQUIPMENT AND SYSTEMS

Note: All H_2S 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.

W A R N I N G

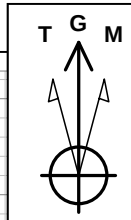
YOU ARE ENTERING AN H_2S AREA
AUTHORIZED PERSONNEL ONLY

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

BTA Oil Producers, LLC



Azimuths to Grid North
True North: -0.38°
Magnetic North: 7.38°

Magnetic Field
Strength: 48699.8nT
Dip Angle: 60.10°
Date: 12/31/2009
Model: IGRF200510

WELL DETAILS: Mesa #51H

+N/-S	+E/-W	Northing	Ground Level Easting	3365.0 Latittude	Longitude
0.0	0.0	392965.70	761581.00	32° 4' 42.049 N	103° 37' 20.085 W

SITE DETAILS: Mesa Sec 1 & 12, T26S, R32E

Site Centre Northing: 388415.22
Easting: 759217.78

Positional Uncertainity: 0.0
Convergence: 0.37
Local North: Grid

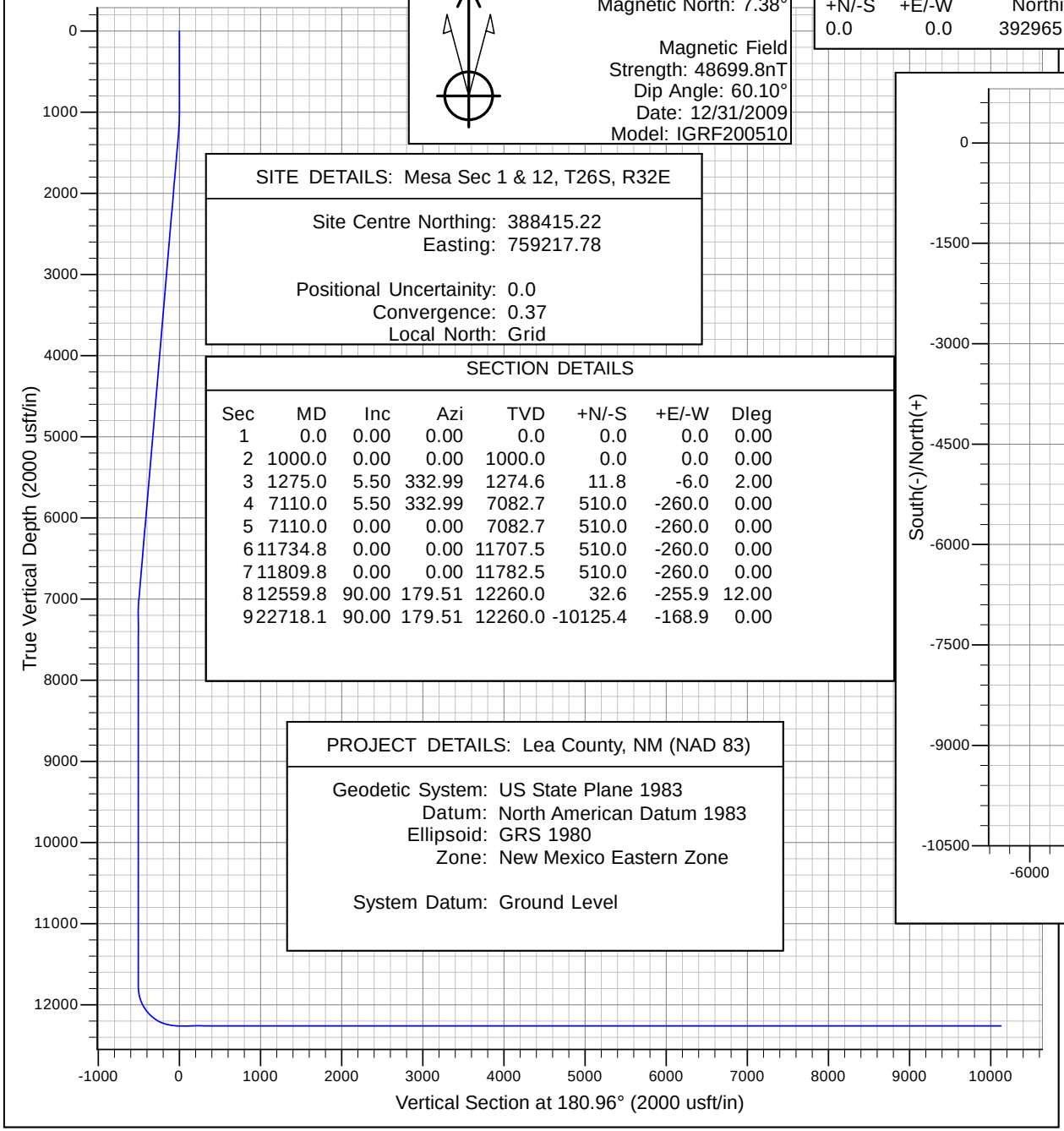
SECTION DETAILS

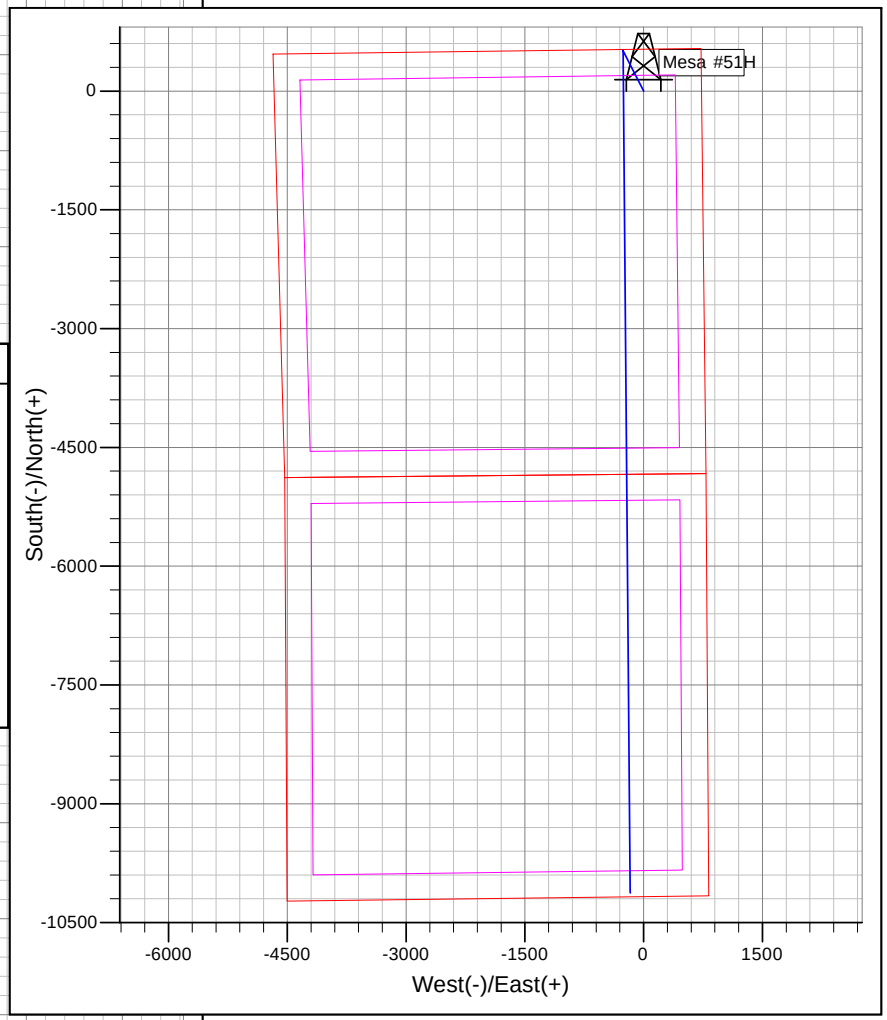
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DIeg
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00
2	1000.0	0.00	0.00	1000.0	0.0	0.0	0.00
3	1275.0	5.50	332.99	1274.6	11.8	-6.0	2.00
4	7110.0	5.50	332.99	7082.7	510.0	-260.0	0.00
5	7110.0	0.00	0.00	7082.7	510.0	-260.0	0.00
6	11734.8	0.00	0.00	11707.5	510.0	-260.0	0.00
7	11809.8	0.00	0.00	11782.5	510.0	-260.0	0.00
8	12559.8	90.00	179.51	12260.0	32.6	-255.9	12.00
9	22718.1	90.00	179.51	12260.0	-10125.4	-168.9	0.00

PROJECT DETAILS: Lea County, NM (NAD 83)

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone

System Datum: Ground Level





BTA Oil Producers, LLC

Lea County, NM (NAD 83)
Mesa Sec 1 & 12, T26S, R32E
Mesa #50H

Wellbore #1

Plan: Design #1

Standard Planning Report - Geographic

28 April, 2020

Microsoft

Planning Report - Geographic

Database:	Old	**Local Co-ordinate Reference**	Well Mesa #50H
Company:	BTA Oil Producers, LLC	**TVD Reference:**	WELL @ 3365.0usft (Original Well Elev)
Project:	Lea County, NM (NAD 83)	**MD Reference:**	WELL @ 3365.0usft (Original Well Elev)
Site:	Mesa Sec 1 & 12, T26S, R32E	**North Reference:**	Grid
Well:	Mesa #50H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Project Lea County, NM (NAD 83), Lea County, NM

Map System:	US State Plane 1983	**System Datum:**	Ground Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		Using geodetic scale factor

Site Mesa Sec 1 & 12, T26S, R32E

Site Position:		**Northing:**	388,415.22 usft	**Latitude:**	32° 3' 57.173 N
From:	Map	**Easting:**	759,217.78 usft	**Longitude:**	103° 37' 47.896 W
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0.37 °

Well Mesa #50H

Well Position	**+N/-S**	0.0 usft	**Northing:**	392,966.00 usft	**Latitude:**	32° 4' 42.050 N
	+E/-W	0.0 usft	**Easting:**	761,610.90 usft	**Longitude:**	103° 37' 19.737 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**		**Ground Level:**	3,365.0 usft

Wellbore Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	12/31/2009	7.76	60.10	48,699.77173264

Design Design #1

Audit Notes:

Version:	**Phase:**	PROTOTYPE	**Tie On Depth:**	0.0

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	177.39

Plan Survey Tool Program **Date** 4/28/2020

	Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	22,578.6	Design #1 (Wellbore #1)		

Microsoft

Planning Report - Geographic

Database:	Old	**Local Co-ordinate Reference**	Well Mesa #50H
Company:	BTA Oil Producers, LLC	**TVD Reference:**	WELL @ 3365.0usft (Original Well Elev)
Project:	Lea County, NM (NAD 83)	**MD Reference:**	WELL @ 3365.0usft (Original Well Elev)
Site:	Mesa Sec 1 & 12, T26S, R32E	**North Reference:**	Grid
Well:	Mesa #50H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Plan Sections

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,350.0	7.00	42.66	1,349.1	15.7	14.5	2.00	2.00	0.00	42.66	
6,690.4	7.00	42.66	6,649.7	494.3	455.5	0.00	0.00	0.00	0.00	
7,040.4	0.00	0.00	6,998.9	510.0	470.0	2.00	-2.00	0.00	180.00	
11,604.0	0.00	0.00	11,562.5	510.0	470.0	0.00	0.00	0.00	0.00	
11,679.1	0.00	0.00	11,637.5	510.0	470.0	0.00	0.00	0.00	0.00	
12,429.1	90.00	180.05	12,115.0	32.5	469.6	12.00	12.00	0.00	180.05	
22,578.6	90.00	180.05	12,115.0	-10,117.0	461.0	0.00	0.00	0.00	0.00	Mesa #50H BHL

Microsoft

Planning Report - Geographic

Database:	Old	**Local Co-ordinate Reference**	Well Mesa #50H
Company:	BTA Oil Producers, LLC	**TVD Reference:**	WELL @ 3365.0usft (Original Well Elev)
Project:	Lea County, NM (NAD 83)	**MD Reference:**	WELL @ 3365.0usft (Original Well Elev)
Site:	Mesa Sec 1 & 12, T26S, R32E	**North Reference:**	Grid
Well:	Mesa #50H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

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	392,966.00	761,610.90	32° 4' 42.050 N	103° 37' 19.737 W
100.0	0.00	0.00	100.0	0.0	0.0	392,966.00	761,610.90	32° 4' 42.050 N	103° 37' 19.737 W
200.0	0.00	0.00	200.0	0.0	0.0	392,966.00	761,610.90	32° 4' 42.050 N	103° 37' 19.737 W
300.0	0.00	0.00	300.0	0.0	0.0	392,966.00	761,610.90	32° 4' 42.050 N	103° 37' 19.737 W
400.0	0.00	0.00	400.0	0.0	0.0	392,966.00	761,610.90	32° 4' 42.050 N	103° 37' 19.737 W
500.0	0.00	0.00	500.0	0.0	0.0	392,966.00	761,610.90	32° 4' 42.050 N	103° 37' 19.737 W
600.0	0.00	0.00	600.0	0.0	0.0	392,966.00	761,610.90	32° 4' 42.050 N	103° 37' 19.737 W
700.0	0.00	0.00	700.0	0.0	0.0	392,966.00	761,610.90	32° 4' 42.050 N	103° 37' 19.737 W
800.0	0.00	0.00	800.0	0.0	0.0	392,966.00	761,610.90	32° 4' 42.050 N	103° 37' 19.737 W
900.0	0.00	0.00	900.0	0.0	0.0	392,966.00	761,610.90	32° 4' 42.050 N	103° 37' 19.737 W
1,000.0	0.00	0.00	1,000.0	0.0	0.0	392,966.00	761,610.90	32° 4' 42.050 N	103° 37' 19.737 W
1,100.0	2.00	42.66	1,100.0	1.3	1.2	392,967.28	761,612.08	32° 4' 42.063 N	103° 37' 19.723 W
1,200.0	4.00	42.66	1,199.8	5.1	4.7	392,971.13	761,615.63	32° 4' 42.101 N	103° 37' 19.682 W
1,300.0	6.00	42.66	1,299.5	11.5	10.6	392,977.54	761,621.53	32° 4' 42.164 N	103° 37' 19.613 W
1,350.0	7.00	42.66	1,349.1	15.7	14.5	392,981.70	761,625.37	32° 4' 42.205 N	103° 37' 19.568 W
1,400.0	7.00	42.66	1,398.8	20.2	18.6	392,986.18	761,629.50	32° 4' 42.249 N	103° 37' 19.520 W
1,500.0	7.00	42.66	1,498.0	29.1	26.9	392,995.14	761,637.76	32° 4' 42.337 N	103° 37' 19.423 W
1,600.0	7.00	42.66	1,597.3	38.1	35.1	393,004.10	761,646.01	32° 4' 42.425 N	103° 37' 19.326 W
1,700.0	7.00	42.66	1,696.5	47.1	43.4	393,013.07	761,654.27	32° 4' 42.513 N	103° 37' 19.229 W
1,800.0	7.00	42.66	1,795.8	56.0	51.6	393,022.03	761,662.53	32° 4' 42.601 N	103° 37' 19.133 W
1,900.0	7.00	42.66	1,895.0	65.0	59.9	393,030.99	761,670.79	32° 4' 42.689 N	103° 37' 19.036 W
2,000.0	7.00	42.66	1,994.3	74.0	68.2	393,039.95	761,679.05	32° 4' 42.778 N	103° 37' 18.939 W
2,100.0	7.00	42.66	2,093.5	82.9	76.4	393,048.91	761,687.31	32° 4' 42.866 N	103° 37' 18.843 W
2,200.0	7.00	42.66	2,192.8	91.9	84.7	393,057.87	761,695.57	32° 4' 42.954 N	103° 37' 18.746 W
2,300.0	7.00	42.66	2,292.0	100.8	92.9	393,066.83	761,703.82	32° 4' 43.042 N	103° 37' 18.649 W
2,400.0	7.00	42.66	2,391.3	109.8	101.2	393,075.80	761,712.08	32° 4' 43.130 N	103° 37' 18.553 W
2,500.0	7.00	42.66	2,490.6	118.8	109.4	393,084.76	761,720.34	32° 4' 43.218 N	103° 37' 18.456 W
2,600.0	7.00	42.66	2,589.8	127.7	117.7	393,093.72	761,728.60	32° 4' 43.306 N	103° 37' 18.359 W
2,700.0	7.00	42.66	2,689.1	136.7	126.0	393,102.68	761,736.86	32° 4' 43.395 N	103° 37' 18.263 W
2,800.0	7.00	42.66	2,788.3	145.6	134.2	393,111.64	761,745.12	32° 4' 43.483 N	103° 37' 18.166 W
2,900.0	7.00	42.66	2,887.6	154.6	142.5	393,120.60	761,753.38	32° 4' 43.571 N	103° 37' 18.069 W
3,000.0	7.00	42.66	2,986.8	163.6	150.7	393,129.56	761,761.63	32° 4' 43.659 N	103° 37' 17.973 W
3,100.0	7.00	42.66	3,086.1	172.5	159.0	393,138.53	761,769.89	32° 4' 43.747 N	103° 37' 17.876 W
3,200.0	7.00	42.66	3,185.3	181.5	167.3	393,147.49	761,778.15	32° 4' 43.835 N	103° 37' 17.779 W
3,300.0	7.00	42.66	3,284.6	190.5	175.5	393,156.45	761,786.41	32° 4' 43.923 N	103° 37' 17.683 W
3,400.0	7.00	42.66	3,383.8	199.4	183.8	393,165.41	761,794.67	32° 4' 44.012 N	103° 37' 17.586 W
3,500.0	7.00	42.66	3,483.1	208.4	192.0	393,174.37	761,802.93	32° 4' 44.100 N	103° 37' 17.489 W
3,600.0	7.00	42.66	3,582.4	217.3	200.3	393,183.33	761,811.19	32° 4' 44.188 N	103° 37' 17.393 W
3,700.0	7.00	42.66	3,681.6	226.3	208.6	393,192.29	761,819.44	32° 4' 44.276 N	103° 37' 17.296 W
3,800.0	7.00	42.66	3,780.9	235.3	216.8	393,201.26	761,827.70	32° 4' 44.364 N	103° 37' 17.199 W
3,900.0	7.00	42.66	3,880.1	244.2	225.1	393,210.22	761,835.96	32° 4' 44.452 N	103° 37' 17.103 W
4,000.0	7.00	42.66	3,979.4	253.2	233.3	393,219.18	761,844.22	32° 4' 44.540 N	103° 37' 17.006 W
4,100.0	7.00	42.66	4,078.6	262.2	241.6	393,228.14	761,852.48	32° 4' 44.629 N	103° 37' 16.909 W
4,200.0	7.00	42.66	4,177.9	271.1	249.8	393,237.10	761,860.74	32° 4' 44.717 N	103° 37' 16.813 W
4,300.0	7.00	42.66	4,277.1	280.1	258.1	393,246.06	761,869.00	32° 4' 44.805 N	103° 37' 16.716 W
4,400.0	7.00	42.66	4,376.4	289.0	266.4	393,255.02	761,877.25	32° 4' 44.893 N	103° 37' 16.619 W
4,500.0	7.00	42.66	4,475.7	298.0	274.6	393,263.99	761,885.51	32° 4' 44.981 N	103° 37' 16.523 W
4,600.0	7.00	42.66	4,574.9	307.0	282.9	393,272.95	761,893.77	32° 4' 45.069 N	103° 37' 16.426 W
4,700.0	7.00	42.66	4,674.2	315.9	291.1	393,281.91	761,902.03	32° 4' 45.157 N	103° 37' 16.329 W
4,800.0	7.00	42.66	4,773.4	324.9	299.4	393,290.87	761,910.29	32° 4' 45.246 N	103° 37' 16.233 W
4,900.0	7.00	42.66	4,872.7	333.8	307.7	393,299.83	761,918.55	32° 4' 45.334 N	103° 37' 16.136 W
5,000.0	7.00	42.66	4,971.9	342.8	315.9	393,308.79	761,926.81	32° 4' 45.422 N	103° 37' 16.039 W
5,100.0	7.00	42.66	5,071.2	351.8	324.2	393,317.75	761,935.06	32° 4' 45.510 N	103° 37' 15.943 W
5,200.0	7.00	42.66	5,170.4	360.7	332.4	393,326.72	761,943.32	32° 4' 45.598 N	103° 37' 15.846 W

Microsoft

Planning Report - Geographic

Database:	Old	**Local Co-ordinate Reference**	Well Mesa #50H
Company:	BTA Oil Producers, LLC	**TVD Reference:**	WELL @ 3365.0usft (Original Well Elev)
Project:	Lea County, NM (NAD 83)	**MD Reference:**	WELL @ 3365.0usft (Original Well Elev)
Site:	Mesa Sec 1 & 12, T26S, R32E	**North Reference:**	Grid
Well:	Mesa #50H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

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	7.00	42.66	5,269.7	369.7	340.7	393,335.68	761,951.58	32° 4' 45.686 N	103° 37' 15.749 W
5,400.0	7.00	42.66	5,368.9	378.7	349.0	393,344.64	761,959.84	32° 4' 45.774 N	103° 37' 15.653 W
5,500.0	7.00	42.66	5,468.2	387.6	357.2	393,353.60	761,968.10	32° 4' 45.862 N	103° 37' 15.556 W
5,600.0	7.00	42.66	5,567.5	396.6	365.5	393,362.56	761,976.36	32° 4' 45.951 N	103° 37' 15.459 W
5,700.0	7.00	42.66	5,666.7	405.5	373.7	393,371.52	761,984.61	32° 4' 46.039 N	103° 37' 15.363 W
5,800.0	7.00	42.66	5,766.0	414.5	382.0	393,380.48	761,992.87	32° 4' 46.127 N	103° 37' 15.266 W
5,900.0	7.00	42.66	5,865.2	423.5	390.2	393,389.45	762,001.13	32° 4' 46.215 N	103° 37' 15.169 W
6,000.0	7.00	42.66	5,964.5	432.4	398.5	393,398.41	762,009.39	32° 4' 46.303 N	103° 37' 15.073 W
6,100.0	7.00	42.66	6,063.7	441.4	406.8	393,407.37	762,017.65	32° 4' 46.391 N	103° 37' 14.976 W
6,200.0	7.00	42.66	6,163.0	450.3	415.0	393,416.33	762,025.91	32° 4' 46.479 N	103° 37' 14.879 W
6,300.0	7.00	42.66	6,262.2	459.3	423.3	393,425.29	762,034.17	32° 4' 46.568 N	103° 37' 14.783 W
6,400.0	7.00	42.66	6,361.5	468.3	431.5	393,434.25	762,042.42	32° 4' 46.656 N	103° 37' 14.686 W
6,500.0	7.00	42.66	6,460.7	477.2	439.8	393,443.21	762,050.68	32° 4' 46.744 N	103° 37' 14.589 W
6,600.0	7.00	42.66	6,560.0	486.2	448.1	393,452.18	762,058.94	32° 4' 46.832 N	103° 37' 14.493 W
6,690.4	7.00	42.66	6,649.7	494.3	455.5	393,460.28	762,066.41	32° 4' 46.912 N	103° 37' 14.405 W
6,700.0	6.81	42.66	6,659.3	495.1	456.3	393,461.13	762,067.19	32° 4' 46.920 N	103° 37' 14.396 W
6,800.0	4.81	42.66	6,758.7	502.6	463.2	393,468.57	762,074.05	32° 4' 46.993 N	103° 37' 14.316 W
6,900.0	2.81	42.66	6,858.5	507.5	467.7	393,473.45	762,078.55	32° 4' 47.041 N	103° 37' 14.263 W
7,000.0	0.81	42.66	6,958.5	509.8	469.8	393,475.77	762,080.69	32° 4' 47.064 N	103° 37' 14.238 W
7,040.4	0.00	0.00	6,998.9	510.0	470.0	393,475.98	762,080.88	32° 4' 47.066 N	103° 37' 14.236 W
7,100.0	0.00	0.00	7,058.5	510.0	470.0	393,475.98	762,080.88	32° 4' 47.066 N	103° 37' 14.236 W
7,200.0	0.00	0.00	7,158.5	510.0	470.0	393,475.98	762,080.88	32° 4' 47.066 N	103° 37' 14.236 W
7,300.0	0.00	0.00	7,258.5	510.0	470.0	393,475.98	762,080.88	32° 4' 47.066 N	103° 37' 14.236 W
7,400.0	0.00	0.00	7,358.5	510.0	470.0	393,475.98	762,080.88	32° 4' 47.066 N	103° 37' 14.236 W
7,500.0	0.00	0.00	7,458.5	510.0	470.0	393,475.98	762,080.88	32° 4' 47.066 N	103° 37' 14.236 W
7,600.0	0.00	0.00	7,558.5	510.0	470.0	393,475.98	762,080.88	32° 4' 47.066 N	103° 37' 14.236 W
7,700.0	0.00	0.00	7,658.5	510.0	470.0	393,475.98	762,080.88	32° 4' 47.066 N	103° 37' 14.236 W
7,800.0	0.00	0.00	7,758.5	510.0	470.0	393,475.98	762,080.88	32° 4' 47.066 N	103° 37' 14.236 W
7,900.0	0.00	0.00	7,858.5	510.0	470.0	393,475.98	762,080.88	32° 4' 47.066 N	103° 37' 14.236 W
8,000.0	0.00	0.00	7,958.5	510.0	470.0	393,475.98	762,080.88	32° 4' 47.066 N	103° 37' 14.236 W
8,100.0	0.00	0.00	8,058.5	510.0	470.0	393,475.98	762,080.88	32° 4' 47.066 N	103° 37' 14.236 W
8,200.0	0.00	0.00	8,158.5	510.0	470.0	393,475.98	762,080.88	32° 4' 47.066 N	103° 37' 14.236 W
8,300.0	0.00	0.00	8,258.5	510.0	470.0	393,475.98	762,080.88	32° 4' 47.066 N	103° 37' 14.236 W
8,400.0	0.00	0.00	8,358.5	510.0	470.0	393,475.98	762,080.88	32° 4' 47.066 N	103° 37' 14.236 W
8,500.0	0.00	0.00	8,458.5	510.0	470.0	393,475.98	762,080.88	32° 4' 47.066 N	103° 37' 14.236 W
8,600.0	0.00	0.00	8,558.5	510.0	470.0	393,475.98	762,080.88	32° 4' 47.066 N	103° 37' 14.236 W
8,700.0	0.00	0.00	8,658.5	510.0	470.0	393,475.98	762,080.88	32° 4' 47.066 N	103° 37' 14.236 W
8,800.0	0.00	0.00	8,758.5	510.0	470.0	393,475.98	762,080.88	32° 4' 47.066 N	103° 37' 14.236 W
8,900.0	0.00	0.00	8,858.5	510.0	470.0	393,475.98	762,080.88	32° 4' 47.066 N	103° 37' 14.236 W
9,000.0	0.00	0.00	8,958.5	510.0	470.0	393,475.98	762,080.88	32° 4' 47.066 N	103° 37' 14.236 W
9,100.0	0.00	0.00	9,058.5	510.0	470.0	393,475.98	762,080.88	32° 4' 47.066 N	103° 37' 14.236 W
9,200.0	0.00	0.00	9,158.5	510.0	470.0	393,475.98	762,080.88	32° 4' 47.066 N	103° 37' 14.236 W
9,300.0	0.00	0.00	9,258.5	510.0	470.0	393,475.98	762,080.88	32° 4' 47.066 N	103° 37' 14.236 W
9,400.0	0.00	0.00	9,358.5	510.0	470.0	393,475.98	762,080.88	32° 4' 47.066 N	103° 37' 14.236 W
9,500.0	0.00	0.00	9,458.5	510.0	470.0	393,475.98	762,080.88	32° 4' 47.066 N	103° 37' 14.236 W
9,600.0	0.00	0.00	9,558.5	510.0	470.0	393,475.98	762,080.88	32° 4' 47.066 N	103° 37' 14.236 W
9,700.0	0.00	0.00	9,658.5	510.0	470.0	393,475.98	762,080.88	32° 4' 47.066 N	103° 37' 14.236 W
9,800.0	0.00	0.00	9,758.5	510.0	470.0	393,475.98	762,080.88	32° 4' 47.066 N	103° 37' 14.236 W
9,900.0	0.00	0.00	9,858.5	510.0	470.0	393,475.98	762,080.88	32° 4' 47.066 N	103° 37' 14.236 W
10,000.0	0.00	0.00	9,958.5	510.0	470.0	393,475.98	762,080.88	32° 4' 47.066 N	103° 37' 14.236 W
10,100.0	0.00	0.00	10,058.5	510.0	470.0	393,475.98	762,080.88	32° 4' 47.066 N	103° 37' 14.236 W
10,200.0	0.00	0.00	10,158.5	510.0	470.0	393,475.98	762,080.88	32° 4' 47.066 N	103° 37' 14.236 W
10,300.0	0.00	0.00	10,258.5	510.0	470.0	393,475.98	762,080.88	32° 4' 47.066 N	103° 37' 14.236 W
10,400.0	0.00	0.00	10,358.5	510.0	470.0	393,475.98	762,080.88	32° 4' 47.066 N	103° 37' 14.236 W

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Planning Report - Geographic

Database:	Old	**Local Co-ordinate Reference**	Well Mesa #50H
Company:	BTA Oil Producers, LLC	**TVD Reference:**	WELL @ 3365.0usft (Original Well Elev)
Project:	Lea County, NM (NAD 83)	**MD Reference:**	WELL @ 3365.0usft (Original Well Elev)
Site:	Mesa Sec 1 & 12, T26S, R32E	**North Reference:**	Grid
Well:	Mesa #50H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
10,500.0	0.00	0.00	10,458.5	510.0	470.0	393,475.98	762,080.88	32° 4' 47.066 N	103° 37' 14.236 W
10,600.0	0.00	0.00	10,558.5	510.0	470.0	393,475.98	762,080.88	32° 4' 47.066 N	103° 37' 14.236 W
10,700.0	0.00	0.00	10,658.5	510.0	470.0	393,475.98	762,080.88	32° 4' 47.066 N	103° 37' 14.236 W
10,800.0	0.00	0.00	10,758.5	510.0	470.0	393,475.98	762,080.88	32° 4' 47.066 N	103° 37' 14.236 W
10,900.0	0.00	0.00	10,858.5	510.0	470.0	393,475.98	762,080.88	32° 4' 47.066 N	103° 37' 14.236 W
11,000.0	0.00	0.00	10,958.5	510.0	470.0	393,475.98	762,080.88	32° 4' 47.066 N	103° 37' 14.236 W
11,100.0	0.00	0.00	11,058.5	510.0	470.0	393,475.98	762,080.88	32° 4' 47.066 N	103° 37' 14.236 W
11,200.0	0.00	0.00	11,158.5	510.0	470.0	393,475.98	762,080.88	32° 4' 47.066 N	103° 37' 14.236 W
11,300.0	0.00	0.00	11,258.5	510.0	470.0	393,475.98	762,080.88	32° 4' 47.066 N	103° 37' 14.236 W
11,400.0	0.00	0.00	11,358.5	510.0	470.0	393,475.98	762,080.88	32° 4' 47.066 N	103° 37' 14.236 W
11,500.0	0.00	0.00	11,458.5	510.0	470.0	393,475.98	762,080.88	32° 4' 47.066 N	103° 37' 14.236 W
11,600.0	0.00	0.00	11,558.5	510.0	470.0	393,475.98	762,080.88	32° 4' 47.066 N	103° 37' 14.236 W
11,604.0	0.00	0.00	11,562.5	510.0	470.0	393,475.98	762,080.88	32° 4' 47.066 N	103° 37' 14.236 W
11,679.1	0.00	0.00	11,637.5	510.0	470.0	393,475.98	762,080.88	32° 4' 47.066 N	103° 37' 14.236 W
11,700.0	2.51	180.05	11,658.4	509.5	470.0	393,475.52	762,080.88	32° 4' 47.062 N	103° 37' 14.236 W
11,800.0	14.51	180.05	11,757.2	494.8	470.0	393,460.75	762,080.87	32° 4' 46.915 N	103° 37' 14.237 W
11,900.0	26.51	180.05	11,850.7	459.8	470.0	393,425.78	762,080.84	32° 4' 46.569 N	103° 37' 14.240 W
12,000.0	38.51	180.05	11,934.8	406.2	469.9	393,372.13	762,080.79	32° 4' 46.039 N	103° 37' 14.245 W
12,100.0	50.51	180.05	12,006.0	336.2	469.9	393,302.16	762,080.73	32° 4' 45.346 N	103° 37' 14.251 W
12,200.0	62.51	180.05	12,061.1	252.9	469.8	393,218.92	762,080.66	32° 4' 44.522 N	103° 37' 14.258 W
12,300.0	74.51	180.05	12,097.7	160.1	469.7	393,126.04	762,080.58	32° 4' 43.603 N	103° 37' 14.266 W
12,400.0	86.51	180.05	12,114.1	61.6	469.6	393,027.60	762,080.50	32° 4' 42.629 N	103° 37' 14.275 W
12,429.1	90.00	180.05	12,115.0	32.5	469.6	392,998.53	762,080.48	32° 4' 42.342 N	103° 37' 14.277 W
12,500.0	90.00	180.05	12,115.0	-38.4	469.5	392,927.62	762,080.42	32° 4' 41.640 N	103° 37' 14.283 W
12,600.0	90.00	180.05	12,115.0	-138.4	469.5	392,827.62	762,080.33	32° 4' 40.650 N	103° 37' 14.292 W
12,700.0	90.00	180.05	12,115.0	-238.4	469.4	392,727.62	762,080.25	32° 4' 39.661 N	103° 37' 14.301 W
12,800.0	90.00	180.05	12,115.0	-338.4	469.3	392,627.63	762,080.16	32° 4' 38.671 N	103° 37' 14.309 W
12,900.0	90.00	180.05	12,115.0	-438.4	469.2	392,527.63	762,080.08	32° 4' 37.682 N	103° 37' 14.318 W
13,000.0	90.00	180.05	12,115.0	-538.4	469.1	392,427.64	762,079.99	32° 4' 36.692 N	103° 37' 14.327 W
13,100.0	90.00	180.05	12,115.0	-638.4	469.0	392,327.64	762,079.91	32° 4' 35.703 N	103° 37' 14.335 W
13,200.0	90.00	180.05	12,115.0	-738.4	468.9	392,227.64	762,079.83	32° 4' 34.713 N	103° 37' 14.344 W
13,300.0	90.00	180.05	12,115.0	-838.4	468.9	392,127.65	762,079.74	32° 4' 33.724 N	103° 37' 14.353 W
13,400.0	90.00	180.05	12,115.0	-938.4	468.8	392,027.65	762,079.66	32° 4' 32.734 N	103° 37' 14.361 W
13,500.0	90.00	180.05	12,115.0	-1,038.4	468.7	391,927.65	762,079.57	32° 4' 31.745 N	103° 37' 14.370 W
13,600.0	90.00	180.05	12,115.0	-1,138.4	468.6	391,827.66	762,079.49	32° 4' 30.755 N	103° 37' 14.379 W
13,700.0	90.00	180.05	12,115.0	-1,238.4	468.5	391,727.66	762,079.40	32° 4' 29.766 N	103° 37' 14.387 W
13,800.0	90.00	180.05	12,115.0	-1,338.4	468.4	391,627.66	762,079.32	32° 4' 28.776 N	103° 37' 14.396 W
13,900.0	90.00	180.05	12,115.0	-1,438.4	468.4	391,527.67	762,079.23	32° 4' 27.787 N	103° 37' 14.404 W
14,000.0	90.00	180.05	12,115.0	-1,538.4	468.3	391,427.67	762,079.15	32° 4' 26.797 N	103° 37' 14.413 W
14,100.0	90.00	180.05	12,115.0	-1,638.4	468.2	391,327.67	762,079.06	32° 4' 25.808 N	103° 37' 14.422 W
14,200.0	90.00	180.05	12,115.0	-1,738.4	468.1	391,227.68	762,078.98	32° 4' 24.818 N	103° 37' 14.430 W
14,300.0	90.00	180.05	12,115.0	-1,838.4	468.0	391,127.68	762,078.90	32° 4' 23.829 N	103° 37' 14.439 W
14,400.0	90.00	180.05	12,115.0	-1,938.4	467.9	391,027.69	762,078.81	32° 4' 22.839 N	103° 37' 14.448 W
14,500.0	90.00	180.05	12,115.0	-2,038.4	467.8	390,927.69	762,078.73	32° 4' 21.850 N	103° 37' 14.456 W
14,600.0	90.00	180.05	12,115.0	-2,138.4	467.8	390,827.69	762,078.64	32° 4' 20.860 N	103° 37' 14.465 W
14,700.0	90.00	180.05	12,115.0	-2,238.4	467.7	390,727.70	762,078.56	32° 4' 19.871 N	103° 37' 14.474 W
14,800.0	90.00	180.05	12,115.0	-2,338.4	467.6	390,627.70	762,078.47	32° 4' 18.881 N	103° 37' 14.482 W
14,900.0	90.00	180.05	12,115.0	-2,438.4	467.5	390,527.70	762,078.39	32° 4' 17.892 N	103° 37' 14.491 W
15,000.0	90.00	180.05	12,115.0	-2,538.4	467.4	390,427.71	762,078.30	32° 4' 16.902 N	103° 37' 14.500 W
15,100.0	90.00	180.05	12,115.0	-2,638.4	467.3	390,327.71	762,078.22	32° 4' 15.913 N	103° 37' 14.508 W
15,200.0	90.00	180.05	12,115.0	-2,738.4	467.3	390,227.71	762,078.13	32° 4' 14.923 N	103° 37' 14.517 W
15,300.0	90.00	180.05	12,115.0	-2,838.4	467.2	390,127.72	762,078.05	32° 4' 13.933 N	103° 37' 14.526 W
15,400.0	90.00	180.05	12,115.0	-2,938.4	467.1	390,027.72	762,077.97	32° 4' 12.944 N	103° 37' 14.534 W
15,500.0	90.00	180.05	12,115.0	-3,038.4	467.0	389,927.72	762,077.88	32° 4' 11.954 N	103° 37' 14.543 W

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Planning Report - Geographic

Database:	Old	**Local Co-ordinate Reference**	Well Mesa #50H
Company:	BTA Oil Producers, LLC	**TVD Reference:**	WELL @ 3365.0usft (Original Well Elev)
Project:	Lea County, NM (NAD 83)	**MD Reference:**	WELL @ 3365.0usft (Original Well Elev)
Site:	Mesa Sec 1 & 12, T26S, R32E	**North Reference:**	Grid
Well:	Mesa #50H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
15,600.0	90.00	180.05	12,115.0	-3,138.4	466.9	389,827.73	762,077.80	32° 4' 10.965 N	103° 37' 14.552 W
15,700.0	90.00	180.05	12,115.0	-3,238.4	466.8	389,727.73	762,077.71	32° 4' 9.975 N	103° 37' 14.560 W
15,800.0	90.00	180.05	12,115.0	-3,338.4	466.7	389,627.74	762,077.63	32° 4' 8.986 N	103° 37' 14.569 W
15,900.0	90.00	180.05	12,115.0	-3,438.4	466.7	389,527.74	762,077.54	32° 4' 7.996 N	103° 37' 14.578 W
16,000.0	90.00	180.05	12,115.0	-3,538.4	466.6	389,427.74	762,077.46	32° 4' 7.007 N	103° 37' 14.586 W
16,100.0	90.00	180.05	12,115.0	-3,638.4	466.5	389,327.75	762,077.37	32° 4' 6.017 N	103° 37' 14.595 W
16,200.0	90.00	180.05	12,115.0	-3,738.4	466.4	389,227.75	762,077.29	32° 4' 5.028 N	103° 37' 14.604 W
16,300.0	90.00	180.05	12,115.0	-3,838.4	466.3	389,127.75	762,077.20	32° 4' 4.038 N	103° 37' 14.612 W
16,400.0	90.00	180.05	12,115.0	-3,938.4	466.2	389,027.76	762,077.12	32° 4' 3.049 N	103° 37' 14.621 W
16,500.0	90.00	180.05	12,115.0	-4,038.4	466.2	388,927.76	762,077.04	32° 4' 2.059 N	103° 37' 14.630 W
16,600.0	90.00	180.05	12,115.0	-4,138.4	466.1	388,827.76	762,076.95	32° 4' 1.070 N	103° 37' 14.638 W
16,700.0	90.00	180.05	12,115.0	-4,238.4	466.0	388,727.77	762,076.87	32° 4' 0.080 N	103° 37' 14.647 W
16,800.0	90.00	180.05	12,115.0	-4,338.4	465.9	388,627.77	762,076.78	32° 3' 59.091 N	103° 37' 14.656 W
16,900.0	90.00	180.05	12,115.0	-4,438.4	465.8	388,527.77	762,076.70	32° 3' 58.101 N	103° 37' 14.664 W
17,000.0	90.00	180.05	12,115.0	-4,538.4	465.7	388,427.78	762,076.61	32° 3' 57.112 N	103° 37' 14.673 W
17,100.0	90.00	180.05	12,115.0	-4,638.4	465.6	388,327.78	762,076.53	32° 3' 56.122 N	103° 37' 14.682 W
17,200.0	90.00	180.05	12,115.0	-4,738.4	465.6	388,227.79	762,076.44	32° 3' 55.133 N	103° 37' 14.690 W
17,300.0	90.00	180.05	12,115.0	-4,838.4	465.5	388,127.79	762,076.36	32° 3' 54.143 N	103° 37' 14.699 W
17,400.0	90.00	180.05	12,115.0	-4,938.4	465.4	388,027.79	762,076.27	32° 3' 53.154 N	103° 37' 14.707 W
17,500.0	90.00	180.05	12,115.0	-5,038.4	465.3	387,927.80	762,076.19	32° 3' 52.164 N	103° 37' 14.716 W
17,600.0	90.00	180.05	12,115.0	-5,138.4	465.2	387,827.80	762,076.11	32° 3' 51.175 N	103° 37' 14.725 W
17,700.0	90.00	180.05	12,115.0	-5,238.4	465.1	387,727.80	762,076.02	32° 3' 50.185 N	103° 37' 14.733 W
17,800.0	90.00	180.05	12,115.0	-5,338.4	465.1	387,627.81	762,075.94	32° 3' 49.196 N	103° 37' 14.742 W
17,900.0	90.00	180.05	12,115.0	-5,438.4	465.0	387,527.81	762,075.85	32° 3' 48.206 N	103° 37' 14.751 W
18,000.0	90.00	180.05	12,115.0	-5,538.4	464.9	387,427.81	762,075.77	32° 3' 47.217 N	103° 37' 14.759 W
18,100.0	90.00	180.05	12,115.0	-5,638.4	464.8	387,327.82	762,075.68	32° 3' 46.227 N	103° 37' 14.768 W
18,200.0	90.00	180.05	12,115.0	-5,738.4	464.7	387,227.82	762,075.60	32° 3' 45.238 N	103° 37' 14.777 W
18,300.0	90.00	180.05	12,115.0	-5,838.4	464.6	387,127.82	762,075.51	32° 3' 44.248 N	103° 37' 14.785 W
18,400.0	90.00	180.05	12,115.0	-5,938.4	464.5	387,027.83	762,075.43	32° 3' 43.259 N	103° 37' 14.794 W
18,500.0	90.00	180.05	12,115.0	-6,038.4	464.5	386,927.83	762,075.34	32° 3' 42.269 N	103° 37' 14.803 W
18,600.0	90.00	180.05	12,115.0	-6,138.4	464.4	386,827.84	762,075.26	32° 3' 41.280 N	103° 37' 14.811 W
18,700.0	90.00	180.05	12,115.0	-6,238.4	464.3	386,727.84	762,075.18	32° 3' 40.290 N	103° 37' 14.820 W
18,800.0	90.00	180.05	12,115.0	-6,338.4	464.2	386,627.84	762,075.09	32° 3' 39.301 N	103° 37' 14.829 W
18,900.0	90.00	180.05	12,115.0	-6,438.4	464.1	386,527.85	762,075.01	32° 3' 38.311 N	103° 37' 14.837 W
19,000.0	90.00	180.05	12,115.0	-6,538.4	464.0	386,427.85	762,074.92	32° 3' 37.321 N	103° 37' 14.846 W
19,100.0	90.00	180.05	12,115.0	-6,638.4	464.0	386,327.85	762,074.84	32° 3' 36.332 N	103° 37' 14.855 W
19,200.0	90.00	180.05	12,115.0	-6,738.4	463.9	386,227.86	762,074.75	32° 3' 35.342 N	103° 37' 14.863 W
19,300.0	90.00	180.05	12,115.0	-6,838.4	463.8	386,127.86	762,074.67	32° 3' 34.353 N	103° 37' 14.872 W
19,400.0	90.00	180.05	12,115.0	-6,938.4	463.7	386,027.86	762,074.58	32° 3' 33.363 N	103° 37' 14.881 W
19,500.0	90.00	180.05	12,115.0	-7,038.4	463.6	385,927.87	762,074.50	32° 3' 32.374 N	103° 37' 14.889 W
19,600.0	90.00	180.05	12,115.0	-7,138.4	463.5	385,827.87	762,074.41	32° 3' 31.384 N	103° 37' 14.898 W
19,700.0	90.00	180.05	12,115.0	-7,238.4	463.4	385,727.87	762,074.33	32° 3' 30.395 N	103° 37' 14.907 W
19,800.0	90.00	180.05	12,115.0	-7,338.4	463.4	385,627.88	762,074.25	32° 3' 29.405 N	103° 37' 14.915 W
19,900.0	90.00	180.05	12,115.0	-7,438.4	463.3	385,527.88	762,074.16	32° 3' 28.416 N	103° 37' 14.924 W
20,000.0	90.00	180.05	12,115.0	-7,538.4	463.2	385,427.89	762,074.08	32° 3' 27.426 N	103° 37' 14.932 W
20,100.0	90.00	180.05	12,115.0	-7,638.4	463.1	385,327.89	762,073.99	32° 3' 26.437 N	103° 37' 14.941 W
20,200.0	90.00	180.05	12,115.0	-7,738.4	463.0	385,227.89	762,073.91	32° 3' 25.447 N	103° 37' 14.950 W
20,300.0	90.00	180.05	12,115.0	-7,838.4	462.9	385,127.90	762,073.82	32° 3' 24.458 N	103° 37' 14.958 W
20,400.0	90.00	180.05	12,115.0	-7,938.4	462.9	385,027.90	762,073.74	32° 3' 23.468 N	103° 37' 14.967 W
20,500.0	90.00	180.05	12,115.0	-8,038.4	462.8	384,927.90	762,073.65	32° 3' 22.479 N	103° 37' 14.976 W
20,600.0	90.00	180.05	12,115.0	-8,138.4	462.7	384,827.91	762,073.57	32° 3' 21.489 N	103° 37' 14.984 W
20,700.0	90.00	180.05	12,115.0	-8,238.4	462.6	384,727.91	762,073.49	32° 3' 20.500 N	103° 37' 14.993 W
20,800.0	90.00	180.05	12,115.0	-8,338.4	462.5	384,627.91	762,073.40	32° 3' 19.510 N	103° 37' 15.002 W
20,900.0	90.00	180.05	12,115.0	-8,438.4	462.4	384,527.92	762,073.32	32° 3' 18.521 N	103° 37' 15.010 W

Microsoft

Planning Report - Geographic

Database:	Old	**Local Co-ordinate Reference**	Well Mesa #50H
Company:	BTA Oil Producers, LLC	**TVD Reference:**	WELL @ 3365.0usft (Original Well Elev)
Project:	Lea County, NM (NAD 83)	**MD Reference:**	WELL @ 3365.0usft (Original Well Elev)
Site:	Mesa Sec 1 & 12, T26S, R32E	**North Reference:**	Grid
Well:	Mesa #50H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
21,000.0	90.00	180.05	12,115.0	-8,538.4	462.4	384,427.92	762,073.23	32° 3' 17.531 N	103° 37' 15.019 W
21,100.0	90.00	180.05	12,115.0	-8,638.4	462.3	384,327.92	762,073.15	32° 3' 16.542 N	103° 37' 15.028 W
21,200.0	90.00	180.05	12,115.0	-8,738.4	462.2	384,227.93	762,073.06	32° 3' 15.552 N	103° 37' 15.036 W
21,300.0	90.00	180.05	12,115.0	-8,838.4	462.1	384,127.93	762,072.98	32° 3' 14.563 N	103° 37' 15.045 W
21,400.0	90.00	180.05	12,115.0	-8,938.4	462.0	384,027.93	762,072.89	32° 3' 13.573 N	103° 37' 15.054 W
21,500.0	90.00	180.05	12,115.0	-9,038.4	461.9	383,927.94	762,072.81	32° 3' 12.584 N	103° 37' 15.062 W
21,600.0	90.00	180.05	12,115.0	-9,138.4	461.8	383,827.94	762,072.72	32° 3' 11.594 N	103° 37' 15.071 W
21,700.0	90.00	180.05	12,115.0	-9,238.4	461.8	383,727.95	762,072.64	32° 3' 10.605 N	103° 37' 15.080 W
21,800.0	90.00	180.05	12,115.0	-9,338.4	461.7	383,627.95	762,072.56	32° 3' 9.615 N	103° 37' 15.088 W
21,900.0	90.00	180.05	12,115.0	-9,438.4	461.6	383,527.95	762,072.47	32° 3' 8.626 N	103° 37' 15.097 W
22,000.0	90.00	180.05	12,115.0	-9,538.4	461.5	383,427.96	762,072.39	32° 3' 7.636 N	103° 37' 15.105 W
22,100.0	90.00	180.05	12,115.0	-9,638.4	461.4	383,327.96	762,072.30	32° 3' 6.647 N	103° 37' 15.114 W
22,200.0	90.00	180.05	12,115.0	-9,738.4	461.3	383,227.96	762,072.22	32° 3' 5.657 N	103° 37' 15.123 W
22,300.0	90.00	180.05	12,115.0	-9,838.4	461.3	383,127.97	762,072.13	32° 3' 4.667 N	103° 37' 15.131 W
22,400.0	90.00	180.05	12,115.0	-9,938.4	461.2	383,027.97	762,072.05	32° 3' 3.678 N	103° 37' 15.140 W
22,500.0	90.00	180.05	12,115.0	-10,038.4	461.1	382,927.97	762,071.96	32° 3' 2.688 N	103° 37' 15.149 W
22,578.6	90.00	180.05	12,115.0	-10,117.0	461.0	382,849.40	762,071.90	32° 3' 1.911 N	103° 37' 15.156 W

Design Targets

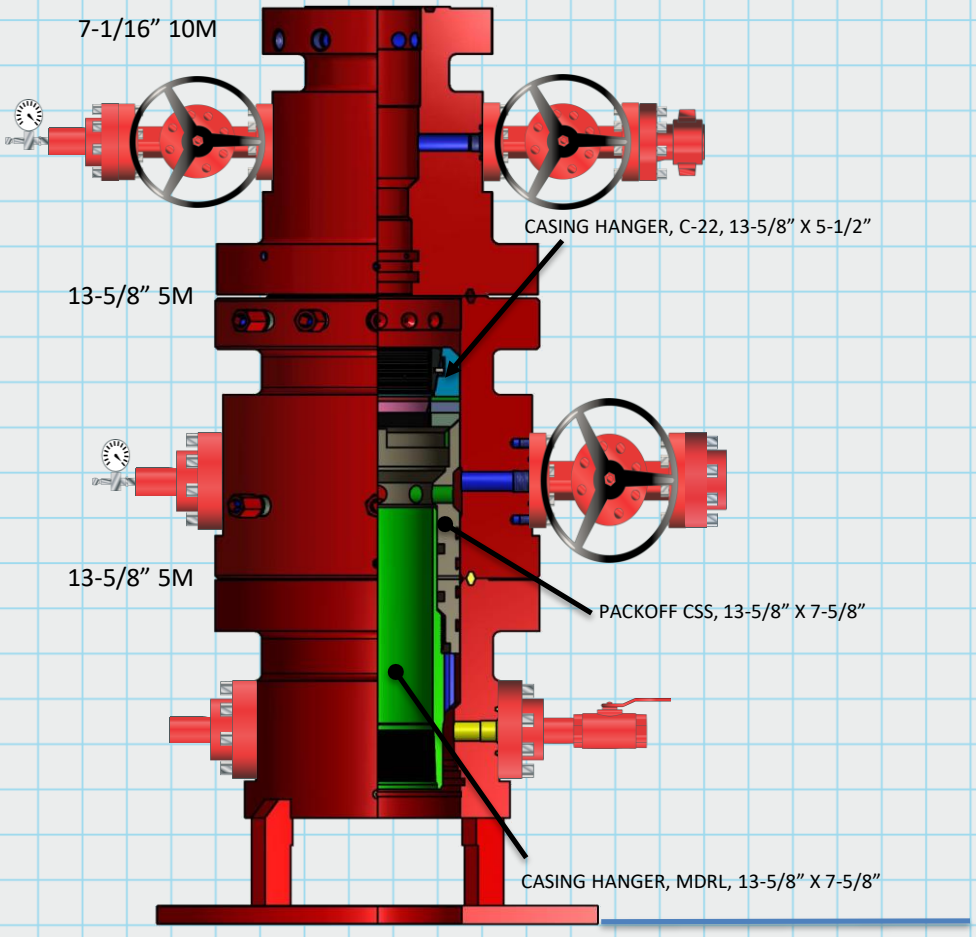
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Mesa #50H BHL - plan hits target center - Point	0.00	0.00	12,115.0	-10,117.0	461.0	382,849.40	762,071.90	32° 3' 1.911 N	103° 37' 15.156 W

TOTAL LENGTH = 78’-3/8”

TUBING SPOOL
SW-TCM
13-5/8” 5M x 7-1/16” 10M
5-1/2” PP SEAL
w/ (2) 1-13/16” 10M SSO

SW-MB SPOOL ASSEMBLY
UPPER MBH
13-5/8” 5M x 13-5/8” 5M
w/ (2) 2-1/16” 5M SSO

CASING HEAD ASSEMBLY
LOWER MBH
13-5/8” 5M x 10-3/4” SOW
w/ (2) 2-1/16” 5M SSO



10-3/4” SOW x 7-5/8” x 5-1/2”

McClinton Energy GROUP

QUALITY SERVICE
QUALITY PRODUCTS
QUALITY PERSONNEL

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

SUPO Data Report
04/14/2021

APD ID: 10400057474
Submission Date: 06/04/2020
Operator Name: BTA OIL PRODUCERS LLC
Well Name: MESA 8105 1-12 FEDERAL
Well Number: 51H
Well Type: OIL WELL
Well Work Type: Drill

Highlighted data reflects the most recent changes

Show Final Text

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

19111247_Mesa_8105_1_12_Federal_51H_Vicinity_Topographical___Access_Rd_20200528065232.pdf

Existing Road Purpose: ACCESS
Row(s) Exist? NO

ROW ID(s)

ID:

Do the existing roads need to be improved? NO

Existing Road Improvement Description:

Existing Road Improvement Attachment:

Section 2 - New or Reconstructed Access Roads

Will new roads be needed? NO

Section 3 - Location of Existing Wells

Existing Wells Map? YES

Attach Well map:

19111247_Mesa_8105_1_12_Federal_51H_1_Mile_Radius_20200528065251.pdf

Operator Name: BTA OIL PRODUCERS LLC

Well Name: MESA 8105 1-12 FEDERAL **Well Number:** 51H

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

Submit or defer a Proposed Production Facilities plan? DEFER

Estimated Production Facilities description: Defer, CTB will be sundried at a later date.

Section 5 - Location and Types of Water Supply

Water Source Table

Water source type: OTHER

Describe type: PIT

Water source use type: SURFACE CASING
STIMULATION
DUST CONTROL
INTERMEDIATE/PRODUCTION CASING

Source latitude: **Source longitude:**

Source datum:

Water source permit type: PRIVATE CONTRACT

Water source transport method: TRUCKING

Source land ownership: FEDERAL

Source transportation land ownership: PRIVATE

Water source volume (barrels): 100000 **Source volume (acre-feet):** 12.88930963

Source volume (gal): 4200000

Water source and transportation map:

MESA_8105_FEDERAL_WATER_TRANSPORT_MAP_20200527085530.pdf

Water source comments: Water Pit is in SESE QUARTER QUARTER OF SEC 1 ; T26S ; R32E

New water well? N

New Water Well Info

Operator Name: BTA OIL PRODUCERS LLC

Well Name: MESA 8105 1-12 FEDERAL **Well Number:** 51H

Well latitude: **Well Longitude:** **Well datum:**

Well target aquifer:

Est. depth to top of aquifer(ft): **Est thickness of aquifer:**

Aquifer comments:

Aquifer documentation:

Well depth (ft): **Well casing type:**

Well casing outside diameter (in.): **Well casing inside diameter (in.):**

New water well casing? **Used casing source:**

Drilling method: **Drill material:**

Grout material: **Grout depth:**

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

Well Production type: **Completion Method:**

Water well additional information:

State appropriation permit:

Additional information attachment:

Section 6 - Construction Materials

Using any construction materials: YES

Construction Materials description: Caliche used for construction of the drilling pad and access road will be obtained from the closest existing caliche pit as approved by the BLM or from prevailing deposits found under the location. If there is not sufficient material available, caliche will be purchased from the nearest caliche pit located in the SESE Quarter Quarter Section 4 T26S R32E Lea County, NM.

Construction Materials source location attachment:

Section 7 - Methods for Handling Waste

Waste type: GARBAGE

Waste content description: Trash

Amount of waste: 500 pounds

Waste disposal frequency : One Time Only

Safe containment description: Trash produced during drilling and completion operations will be collected in a trash container and disposed of properly.

Safe containmant attachment:

Waste disposal type: HAUL TO COMMERCIAL FACILITY **Disposal location ownership:** COMMERCIAL

Disposal type description:

Disposal location description: Trucked to a state approved disposal facility.

Operator Name: BTA OIL PRODUCERS LLC

Well Name: MESA 8105 1-12 FEDERAL **Well Number:** 51H

Waste type: SEWAGE

Waste content description: Human waste and grey water.

Amount of waste: 1000 gallons

Waste disposal frequency : One Time Only

Safe containment description: Waste material will be stored safely and disposed of properly.

Safe containmant attachment:

Waste disposal type: HAUL TO COMMERCIAL FACILITY **Disposal location ownership:** COMMERCIAL

Disposal type description:

Disposal location description: Trucked to a state approved disposal facility.

Waste type: DRILLING

Waste content description: Drilling fluids and cuttings.

Amount of waste: 4164 barrels

Waste disposal frequency : One Time Only

Safe containment description: All drilling fluids will be stored safely and disposed of properly.

Safe containmant attachment:

Waste disposal type: HAUL TO COMMERCIAL FACILITY **Disposal location ownership:** COMMERCIAL

Disposal type description:

Disposal location description: Trucked to a state approved disposal facility.

Reserve Pit

Reserve Pit being used? NO

Temporary disposal of produced water into reserve pit? NO

Reserve pit length (ft.) **Reserve pit width (ft.)**

Reserve pit depth (ft.) **Reserve pit volume (cu. yd.)**

Is at least 50% of the reserve pit in cut?

Reserve pit liner

Reserve pit liner specifications and installation description

Cuttings Area

Cuttings Area being used? NO

Are you storing cuttings on location? N

Operator Name: BTA OIL PRODUCERS LLC

Well Name: MESA 8105 1-12 FEDERAL **Well Number:** 51H

Description of cuttings location

Cuttings area length (ft.) **Cuttings area width (ft.)**

Cuttings area depth (ft.) **Cuttings area volume (cu. yd.)**

Is at least 50% of the cuttings area in cut?

WCuttings area liner

Cuttings area liner specifications and installation description

Section 8 - Ancillary Facilities

Are you requesting any Ancillary Facilities?: N

Ancillary Facilities attachment:

Comments:

Section 9 - Well Site Layout

Well Site Layout Diagram:

Rig_Layout_20190930140859.pdf

19111247_Mesa_8105_1_12_Federal_51H_Well_Site_Plan__600s__20200528065404.pdf

Comments:

Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance **Multiple Well Pad Name:** MESA 8105 1-12 FEDERAL

Multiple Well Pad Number: 50H and 51H

Recontouring attachment:

Drainage/Erosion control construction: During construction proper erosion control methods will be used to control erosion, runoff, and siltation of the surrounding area.

Drainage/Erosion control reclamation: Proper erosion control methods will be used on the area to control erosion, runoff, and siltation of the surrounding area.

Well pad proposed disturbance (acres): 3.95 **Well pad interim reclamation (acres):** 0.46 **Well pad long term disturbance (acres):** 3.49

Road proposed disturbance (acres): 0 **Road interim reclamation (acres):** 0 **Road long term disturbance (acres):** 0

Powerline proposed disturbance (acres): 0 **Powerline interim reclamation (acres):** 0 **Powerline long term disturbance (acres):** 0

Pipeline proposed disturbance (acres): 0 **Pipeline interim reclamation (acres):** 0 **Pipeline long term disturbance (acres):** 0

Other proposed disturbance (acres): 0 **Other interim reclamation (acres):** 0 **Other long term disturbance (acres):** 0

Total interim reclamation: 0.46

Operator Name: BTA OIL PRODUCERS LLC

Well Name: MESA 8105 1-12 FEDERAL **Well Number:** 51H

Total proposed disturbance: 3.95 **Total long term disturbance:** 3.49

Disturbance Comments:

Reconstruction method: The areas planned for interim reclamation will then be recontoured to the original contour if feasible, or if not feasible, to an interim contour that blends with the surrounding topography as much as possible. Where applicable, the fill material of the well pad will be backfilled into the cut to bring the area back to the original contour. The interim cut and fill slopes prior to re-seeding will not be steeper than a 3:1 ratio, unless the adjacent native topography is steeper. Note: Constructed slopes may be much steeper during drilling, but will be recontoured to the above ratios during interim reclamation.
Topsoil redistribution: Topsoil will be evenly respread and aggressively revegetated over the entire disturbed area not needed for all-weather operations.
Soil treatment: To seed the area, the proper BLM seed mixture, free of noxious weeds, will be used. Final seedbed preparation will consist of contour cultivating to a depth of 4 to 6 inches within 24 hours prior to seeding, dozer tracking, or other imprinting in order to break the soil crust and create seed germination micro-sites.
Existing Vegetation at the well pad: The historic climax plant community is a grassland dominated by black grama, dropseeds, and blue stems with sand sage and shinnery oak distributed evenly throughout. Current landscape displays mesquite, shinnery oak, yucca, desert sage, fourwing saltbush, snakeweed, and bunch grasses.
Existing Vegetation at the well pad attachment:

Existing Vegetation Community at the road: Refer to "Existing Vegetation at the well pad"

Existing Vegetation Community at the road attachment:

Existing Vegetation Community at the pipeline: Refer to "Existing Vegetation at the well pad"

Existing Vegetation Community at the pipeline attachment:

Existing Vegetation Community at other disturbances: Refer to "Existing Vegetation at the well pad"

Existing Vegetation Community at other disturbances attachment:

Non native seed used? N

Non native seed description:

Seedling transplant description:

Will seedlings be transplanted for this project? N

Seedling transplant description attachment:

Will seed be harvested for use in site reclamation?

Seed harvest description:

Seed harvest description attachment:

Operator Name: BTA OIL PRODUCERS LLC

Well Name: MESA 8105 1-12 FEDERAL **Well Number:** 51H

Seed Management

Seed Table

Seed Summary

Total pounds/Acre:

Seed Type	Pounds/Acre

Seed reclamation attachment:

Operator Contact/Responsible Official Contact Info

First Name: Chad **Last Name:** Smith

Phone: (432)682-3753 **Email:** csmith@btaoil.com

Seedbed prep:

Seed BMP:

Seed method:

Existing invasive species? N

Existing invasive species treatment description:

Existing invasive species treatment attachment:

Weed treatment plan description: No invasive species present. Standard regular maintenance to maintain a clear location and road.

Weed treatment plan attachment:

Monitoring plan description: Identify areas supporting weeds prior to construction; prevent the introduction and spread of weeds from construction equipment during construction; and contain weed seeds and propagules by preventing segregated topsoil from being spread to adjacent areas. No invasive species present. Standard regular maintenance to maintain a clear location and road.

Monitoring plan attachment:

Success standards: To maintain all disturbed areas as per Gold Book standards.

Pit closure description: N/A

Pit closure attachment:

Section 11 - Surface Ownership

Operator Name: BTA OIL PRODUCERS LLC

Well Name: MESA 8105 1-12 FEDERAL **Well Number:** 51H

Disturbance type: WELL PAD

Describe:

Surface Owner:

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland: **USFS Ranger District:**

Section 12 - Other Information

Right of Way needed? N **Use APD as ROW?**

ROW Type(s):

ROW Applications

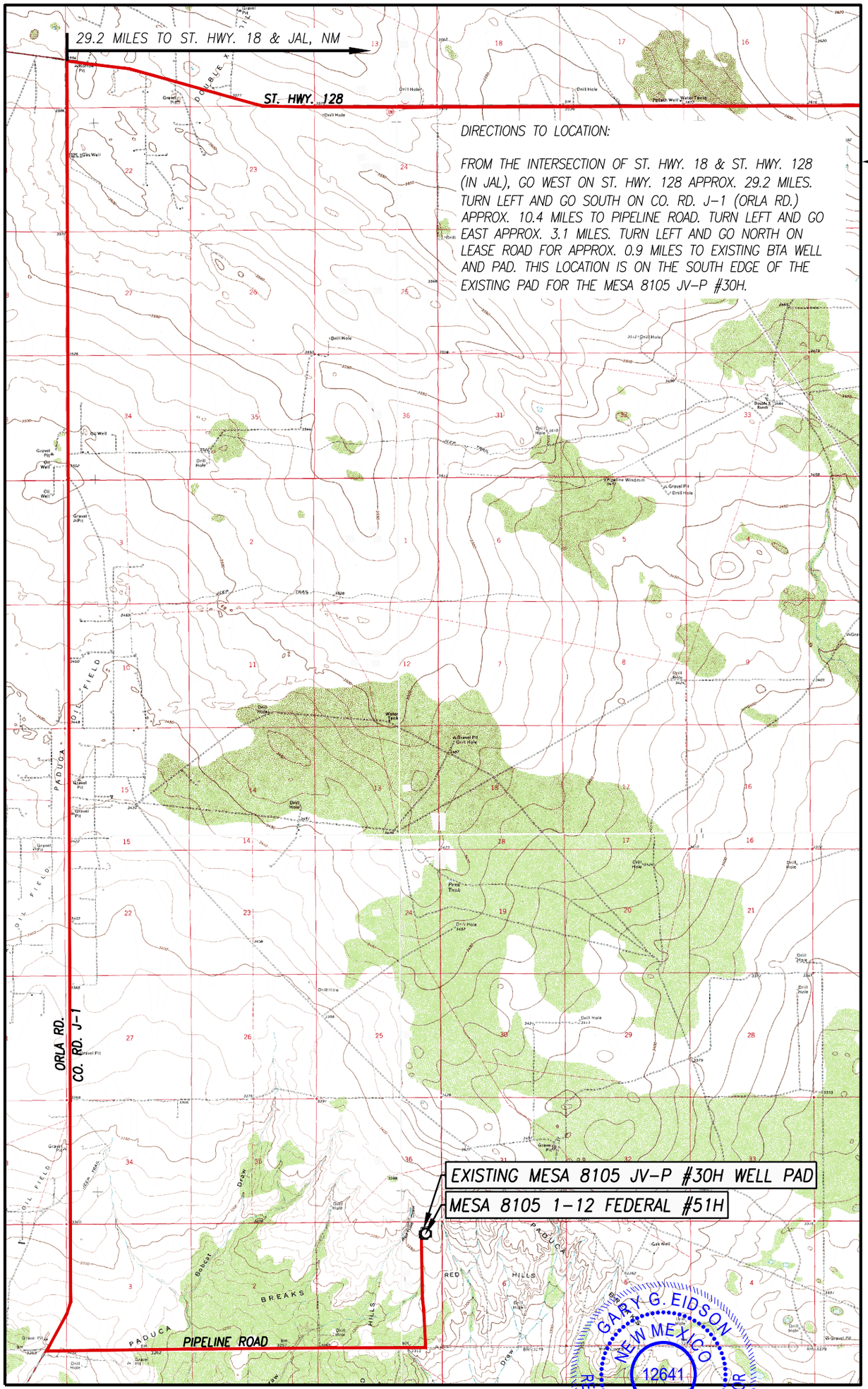
SUPO Additional Information:

Use a previously conducted onsite? Y

Previous Onsite information: Onsite conducted by McKenna Ryder BLM on 2/26/2020

Other SUPO Attachment

VICINITY, TOPOGRAPHIC AND ACCESS ROAD MAP



CONTOUR INTERVAL: PADUCA BREAKS SW, N.M. - 10'
BELL, N.M. - 10', PADUCA BREAKS EAST, N.M. - 10'
SCALE: 1" = 5280'

SEC. 1 TWP. 26-S RGE. 32-E
COUNTY LEA STATE NEW MEXICO
DESCRIPTION 530' FNL & 730' FEL
ELEVATION 3365'
OPERATOR BTA OIL PRODUCERS, LLC
LEASE MESA 8105 1-12 FEDERAL
U.S.G.S. TOPOGRAPHIC MAP
PADUCA BREAKS EAST, N.M. SURVEY N.M.P.M.

I, GARY G. EIDSON, NEW MEXICO PROFESSIONAL SURVEYOR No. 12641, DO HEREBY CERTIFY THAT THIS SURVEY PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

GARY G. EIDSON Gary G Eidson

DATE: 01/31/2020

GARY G. EIDSON NEW MEXICO 12641 REGISTERED PROFESSIONAL SURVEYOR

PROVIDING SURVEYING SERVICES
SINCE 1946
JOHN WEST SURVEYING COMPANY
412 N. DAL PASO HOBBS, N.M. 88240
(575) 393-3117 www.jwsc.biz
TBPLS# 10021000

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, 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

API Number	Pool Code	Pool Name
		WC-025 ; Upper Wolfcamp

Property Code	Property Name	Well Number
	MESA 8105 1-12 FEDERAL	51H

OGRID No.	Operator Name	Elevation
260297	BTA OIL PRODUCERS, LLC	3365'

Surface Location

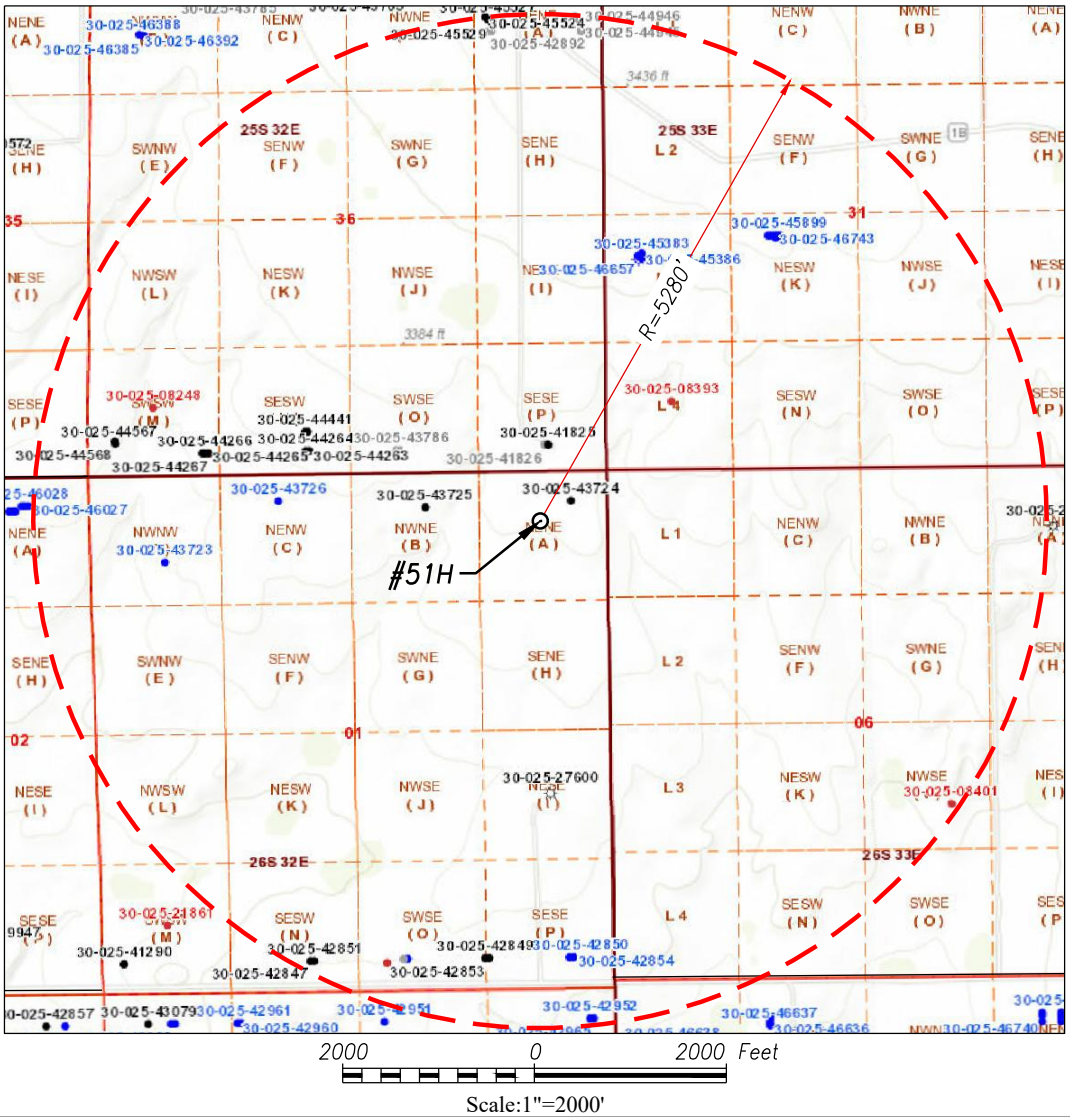
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	1	26-S	32-E		530	NORTH	730	EAST	LEA

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	12	26-S	32-E		50	SOUTH	990	EAST	LEA

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
320			

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



Scale:1"=2000'

LEGEND
⊙ DENOTES PROPOSED WELL

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.

NOVEMBER 18, 2019
Date of Survey

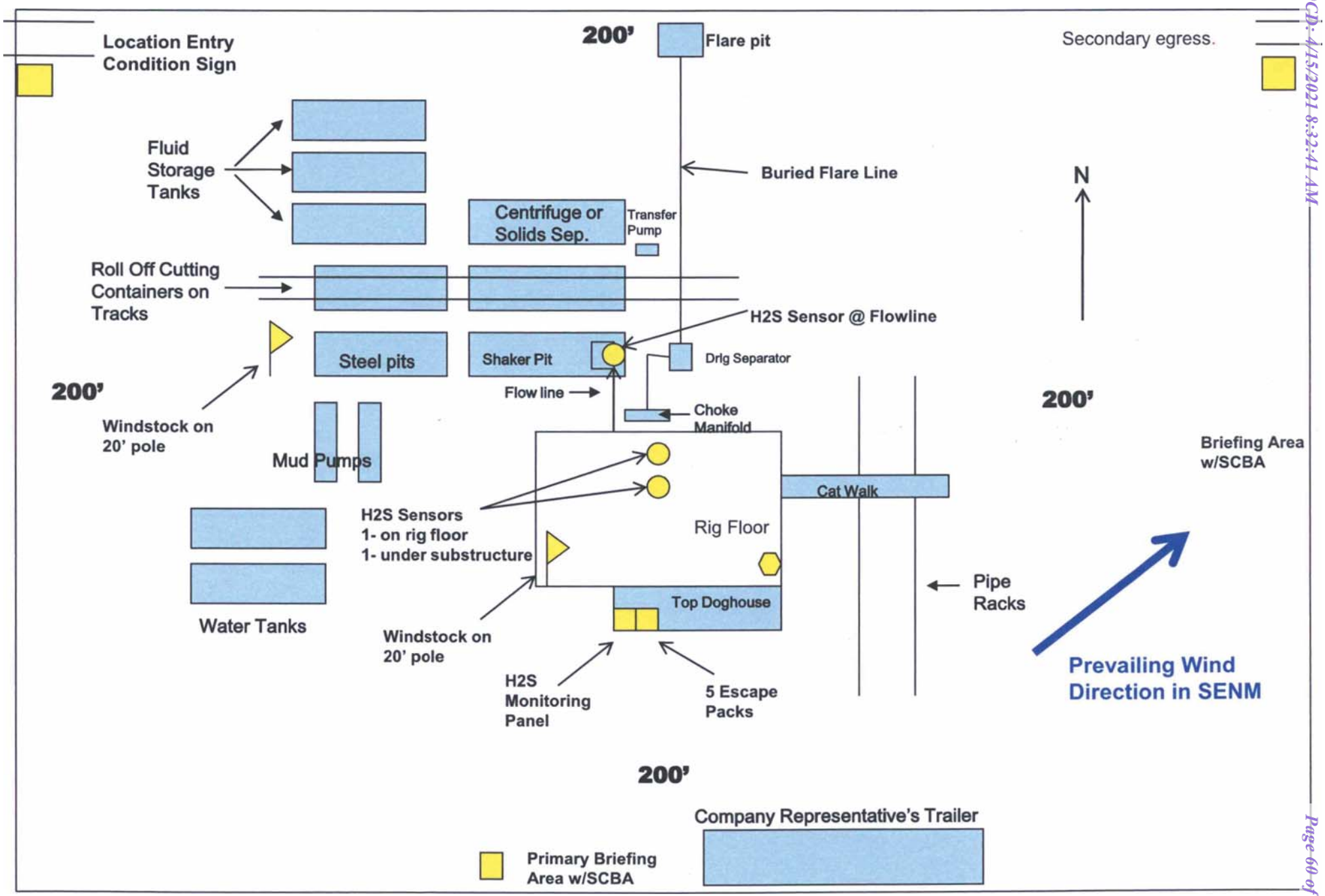
Signature & Seal of Professional Surveyor:

GARY G. EIDSON 12641 REGISTERED PROFESSIONAL SURVEYOR

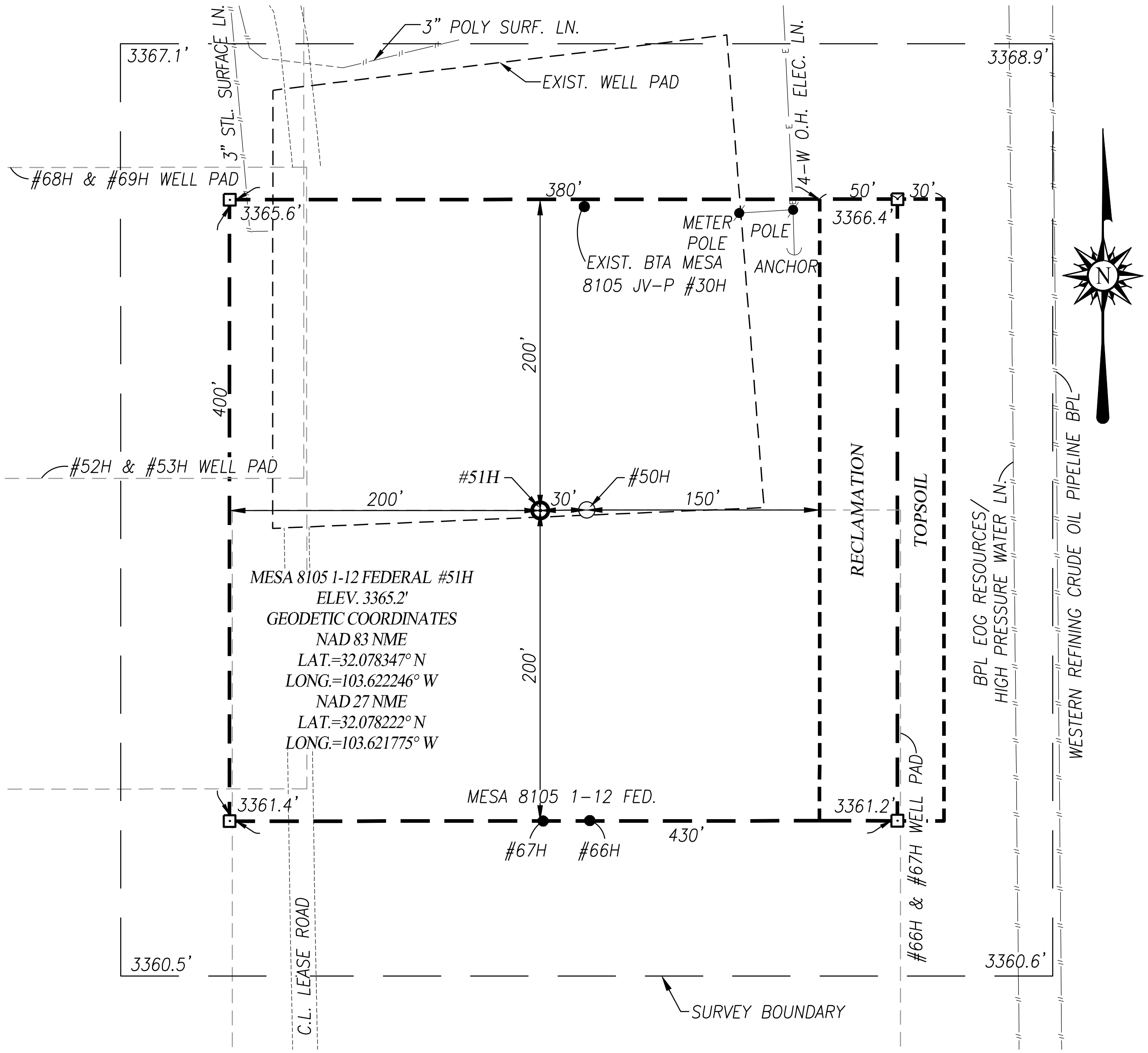
Gary G Eidson 01/31/2020

Certificate Number	Gary G. Eidson	12641
	Ronald J. Eidson	3239
ACK	JWSC W.O.: 19.11.1247	

BTA OIL PRODUCERS, LLC
WATER TRANSPORTATION MAP
MESA 8105 FEDERAL WATER TRANSPORT MAP
SEC 1; T26S ; R32E (Water Pit is in SESE QUARTER QUARTER)
LEA COUNTY, NM



WELL SITE PLAN



NOTE:
SEE "TOPOGRAPHICAL AND ACCESS ROAD MAP" FOR ACCESS ROAD LOCATION.

100 0 100 200 Feet

Scale: 1"=100'

I, GARY G. EIDSON, NEW MEXICO PROFESSIONAL SURVEYOR No. 12641, DO HEREBY CERTIFY THAT THIS SURVEY PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

GARY G. EIDSON NEW MEXICO 12641 REGISTERED PROFESSIONAL SURVEYOR

GARY G. EIDSON *Gary G. Eidson*

DATE: 01/31/2020

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(575) 393-3117 www.jwsc.biz
TBPLS# 10021000

BTA OIL PRODUCERS, LLC

MESA 8105 1-12 FEDERAL #51H WELL LOCATED 530 FEET FROM THE NORTH LINE AND 730 FEET FROM THE EAST LINE OF SECTION 1, TOWNSHIP 26 SOUTH, RANGE 32 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO

Survey Date: 11/18/19	CAD Date: 1/28/2020	Drawn By: ACK
W.O. No.: 19111247 Rev: .	Rel. W.O.:	Sheet 1 of 1

9111247 MESA 8105 1-12 FED #51H SEC 1&12 T26 R32

AFMSS

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

PWD Data Report

04/14/2021

APD ID: 10400057474 **Submission Date:** 06/04/2020

Operator Name: BTA OIL PRODUCERS LLC

Well Name: MESA 8105 1-12 FEDERAL **Well Number:** 51H

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? N

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: BTA OIL PRODUCERS LLC

Well Name: MESA 8105 1-12 FEDERAL **Well Number:** 51H

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? N

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: BTA OIL PRODUCERS LLC

Well Name: MESA 8105 1-12 FEDERAL **Well Number:** 51H

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? N

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? N

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? N

Produced Water Disposal (PWD) Location:

PWD surface owner: **PWD disturbance (acres):**

Other PWD discharge volume (bbl/day):

Operator Name: BTA OIL PRODUCERS LLC

Well Name: MESA 8105 1-12 FEDERAL **Well Number:** 51H

Other PWD type description:

Other PWD type attachment:

Have other regulatory requirements been met?

Other regulatory requirements attachment:

AFMSS

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

Bond Info Data Report

04/14/2021

APD ID: 10400057474

Submission Date: 06/04/2020

Operator Name: BTA OIL PRODUCERS LLC

Well Name: MESA 8105 1-12 FEDERAL

Well Number: 51H

Well Type: OIL WELL

Well Work Type: Drill

Highlighted data reflects the most recent changes

Show Final Text

Bond Information

Federal/Indian APD: FED

BLM Bond number: NMB001711

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:

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DISTRICT III
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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

API Number	Pool Code	Pool Name
30-025-48710	[98158]	WC-025 ; Upper Wolfcamp

Property Code	Property Name	Well Number
[327174]	MESA 8105 1-12 FEDERAL	51H

OGRID No.	Operator Name	Elevation
260297	BTA OIL PRODUCERS, LLC	3365'

Surface Location

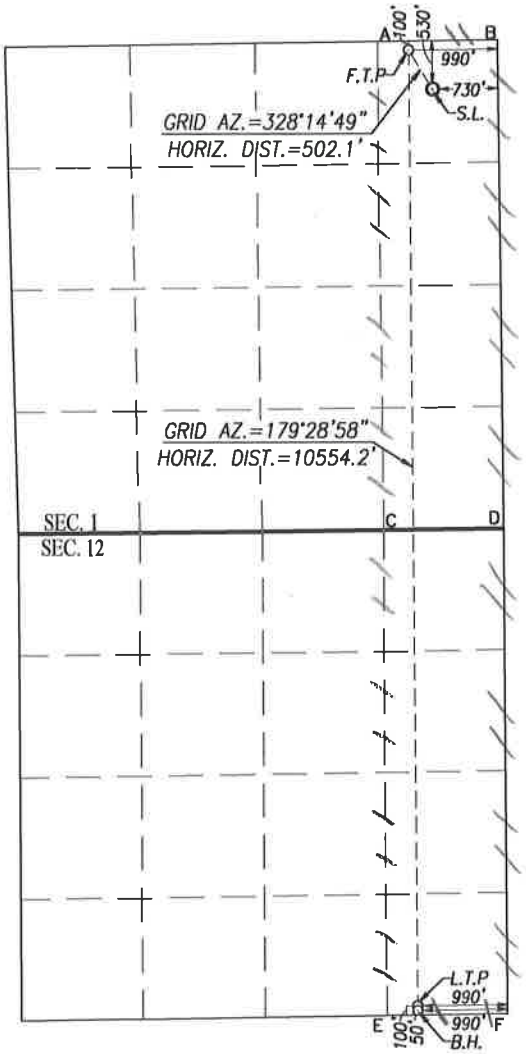
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	1	26-S	32-E		530	NORTH	730	EAST	LEA

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	12	26-S	32-E		50	SOUTH	990	EAST	LEA

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
320			

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



SCALE: 1"=2000'

GEODETIC COORDINATES NAD 83 NME SURFACE LOCATION	GEODETIC COORDINATES NAD 27 NME SURFACE LOCATION
Y= 392965.7 N	Y= 392908.2 N
X= 761581.0 E	X= 720394.4 E
LAT.=32.078347° N	LAT.=32.078222° N
LONG.=103.622246° W	LONG.=103.621775° W

FIRST TAKE POINT NAD 83 NME	FIRST TAKE POINT NAD 27 NME
Y= 393392.5 N	Y= 393335.0 N
X= 761316.8 E	X= 720130.2 E
LAT.=32.079525° N	LAT.=32.079400° N
LONG.=103.623090° W	LONG.=103.622618° W

CORNER COORDINATES TABLE
NAD 27 NME

A - Y= 393430.8 N, X= 719783.4 E
B - Y= 393446.7 N, X= 721119.0 E
C - Y= 388065.8 N, X= 719852.3 E
D - Y= 388078.8 N, X= 721180.8 E
E - Y= 382729.0 N, X= 719884.8 E
F - Y= 382746.5 N, X= 721215.1 E

CORNER COORDINATES TABLE
NAD 83 NME

A - Y= 393488.4 N, X= 760970.0 E
B - Y= 393504.2 N, X= 762305.6 E
C - Y= 388123.2 N, X= 761039.1 E
D - Y= 388136.2 N, X= 762367.7 E
E - Y= 382786.2 N, X= 761071.9 E
F - Y= 382803.7 N, X= 762402.2 E

LAST TAKE POINT NAD 83 NME	LAST TAKE POINT NAD 27 NME
Y= 382890.7 N	Y= 382833.4 N
X= 761411.7 E	X= 720224.6 E
LAT.=32.050656° N	LAT.=32.050531° N
LONG.=103.623007° W	LONG.=103.622537° W

BOTTOM HOLE LOCATION NAD 83 NME	BOTTOM HOLE LOCATION NAD 27 NME
Y= 382840.7 N	Y= 382783.4 N
X= 761412.1 E	X= 720225.0 E
LAT.=32.050519° N	LAT.=32.050394° N
LONG.=103.623006° W	LONG.=103.622537° W

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 unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature 5/5/2020 Date

Sammy Hajar
Printed Name

SHAJAR@BTAOIL.COM
E-mail Address

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.

NOVEMBER 18, 2019
Date of Survey

Signature & Seal of Professional Surveyor:

GARY G. EIDSON
NEW MEXICO
12641
REGISTERED PROFESSIONAL SURVEYOR

Gary G Eidson 01/31/2020

Certificate Number	Gary G. Eidson	12641
	Ronald J. Eidson	3239

ACK JWSC W.O.: 19.11.1247

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State of New Mexico
Energy, Minerals and Natural Resources Department

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

Submit Original to Appropriate District Office

GAS CAPTURE PLAN

Date: 5/27/2020

☒ 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
MESA 8105 1-12 30-025-48710		SEC 1 ; 26S ; 32E	530 FNL 730 FEL	2000	Flared	Battery Connected
FEDERAL 51H						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 LEA 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
  - Plants are expensive, residue gas is still flared, and uneconomical to operate when gas volume declines

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CONDITIONS

Action 24118

CONDITIONS OF APPROVAL

Operator:	OGRID:	Action Number:	Action Type:
BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX79701	260297	24118	FORM 3160-3

OCD Reviewer	Condition
pkautz	Will require a File As Drilled C-102 and a Directional Survey with the C-104
pkautz	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