

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018**SUNDRY NOTICES AND REPORTS ON WELLS**
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.*5. Lease Serial No.
NMNM43744

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No.
PLATINUM MDP1 34-3 FEDERAL COM 1719. API Well No.
30-015-45230-00-X110. Field and Pool or Exploratory Area
PURPLE SAGE-WOLFCAMP (GAS)11. County or Parish, State
EDDY COUNTY, NM**SUBMIT IN TRIPLICATE - Other instructions on page 2**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other2. Name of Operator
OXY USA INCORPORATEDContact: SARAH E CHAPMAN
E-Mail: SARAH_CHAPMAN@OXY.COM3a. Address
5 GREENWAY PLAZA SUITE 110
HOUSTON, TX 77046-05213b. Phone No. (include area code)
Ph: 713-350-4997

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 34 T23S R31E NWNW 220FNL 1027FWL

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	Change to Original APD
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomple horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recomple in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

OXY USA Inc. respectfully requests to amend the approved APD because of the following changes:

1. BHL is moving 110' west to 330' FWL
2. Landing zone change
3. Cement Design (3-string to 4-string)
4. Casing Design
5. Updated Well Control

Please find updated documentation for your use.
Thank you.**Carlsbad Field Office**
Operator Copy

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #466568 verified by the BLM Well Information System
For OXY USA INCORPORATED, sent to the Carlsbad
Committed to AFMSS for processing by PRISCILLA PEREZ on 05/28/2019 (19PP2237SE)

Name (Printed/Typed) SARAH E CHAPMAN

Title REGULATORY SPECIALIST

Signature (Electronic Submission)

Date 05/23/2019

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By NDUNGU KAMAU

Title PETROLEUM ENGINEER

Date 07/10/2019

Conditions of approval, if any, are attached. Approval of this notice 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.

Office Carlsbad

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.

(Instructions on page 2)

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

RW 10-29-19.

Revisions to Operator-Submitted EC Data for Sundry Notice #466568

	Operator Submitted	BLM Revised (AFMSS)
Sundry Type:	APDCH NOI	APDCH NOI
Lease:	NMNM43744	NMNM43744
Agreement:		
Operator:	OXY USA INC. P.O. BOX 4294 HOUSTON, TX 77210 Ph: 713-350-4997	OXY USA INCORPORATED 5 GREENWAY PLAZA SUITE 110 HOUSTON, TX 77046-0521 Ph: 713.350.4816
Admin Contact:	SARAH E CHAPMAN REGULATORY SPECIALIST E-Mail: SARAH_CHAPMAN@OXY.COM Cell: 281-642-5503 Ph: 713-350-4997	SARAH E CHAPMAN REGULATORY SPECIALIST E-Mail: SARAH_CHAPMAN@OXY.COM Cell: 281-642-5503 Ph: 713-350-4997
Tech Contact:	SARAH E CHAPMAN REGULATORY SPECIALIST E-Mail: SARAH_CHAPMAN@OXY.COM Cell: 281-642-5503 Ph: 713-350-4997	SARAH E CHAPMAN REGULATORY SPECIALIST E-Mail: SARAH_CHAPMAN@OXY.COM Cell: 281-642-5503 Ph: 713-350-4997
Location:		
State:	NM	NM
County:	EDDY COUNTY	EDDY
Field/Pool:	PURPLE SAGE WOLFCAMP	PURPLE SAGE-WOLFCAMP (GAS)
Well/Facility:	PLATINUM MDP1 34-3 FEERAL COM 171H Sec 34 T23S R31E NWNW 220FNL 1027FWL 32.267579 N Lat, 103.770884 W Lon	PLATINUM MDP1 34-3 FEDERAL COM 171H Sec 34 T23S R31E NWNW 220FNL 1027FWL

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	OXY USA INCORPORATED
LEASE NO.:	NMNM43744
WELL NAME & NO.:	171H:PLATINUM MDP1 34-3 FDC
SURFACE HOLE FOOTAGE:	220'/N & 1027'/W
BOTTOM HOLE FOOTAGE:	20'/S & 330'/E
LOCATION:	T-23S, R-31E, S34. NMPM
COUNTY:	EDDY, NM

COA

H2S	<input type="radio"/> Yes	<input checked="" type="radio"/> No	
Potash	<input type="radio"/> None	<input type="radio"/> Secretary	<input checked="" type="radio"/> R-111-P
Cave/Karst Potential	<input checked="" type="radio"/> Low	<input type="radio"/> Medium	<input type="radio"/> High
Variance	<input type="radio"/> None	<input checked="" type="radio"/> Flex Hose	<input type="radio"/> Other
Wellhead	<input type="radio"/> Conventional	<input type="radio"/> Multibowl	<input checked="" type="radio"/> Both
Other	<input type="checkbox"/> 4 String Area	<input type="checkbox"/> Capitan Reef	<input type="checkbox"/> WIPP
Other	<input checked="" type="checkbox"/> Fluid Filled	<input checked="" type="checkbox"/> Cement Squeeze	<input type="checkbox"/> Pilot Hole
Special Requirements	<input type="checkbox"/> Water Disposal	<input checked="" type="checkbox"/> COM	<input type="checkbox"/> Unit

ALL PREVIOUS COAs STILL APPLY

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

Primary Casing Design:

1. The 13-3/8 inch surface casing shall be set at approximately **582 feet** (a minimum of **70 feet (Eddy County)**) into the Rustler Anhydrite and above the salt) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of

six hours after pumping cement and ideally between 8-10 hours after completing the cement job.

- b. Wait on cement (WOC) time for a primary cement job will be a minimum of **24 hours in the Potash Area** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
2. The 9-5/8 inch surface casing shall be set at approximately **4358** feet. The minimum required fill of cement behind the 9-5/8 inch intermediate casing is:

Option 1 (Single Stage):

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

Option 2:

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

- a. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
- b. Second stage above DV tool:
 - Cement to surface. If cement does not circulate, contact the appropriate BLM office.
Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.

2nd Intermediate casing must be kept fluid filled to meet BLM minimum collapse requirement.

3. The minimum required fill of cement behind the 7-5/8 inch 2nd intermediate casing is:

Option 1 (Single Stage):

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

Option 2:

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

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

Operator has proposed to pump down 9-5/8" X 7-5/8" annulus. Operator must run a CBL from TD of the 7-5/8" casing to surface. Submit results to BLM. Excess calculates to negative 11% - additional cement might be required.

4. The minimum required fill of cement behind the 5-1/2 inch production casing is:
 - Cement should tie-back **500 feet** into the previous casing. Operator shall provide method of verification. **Excess calculates to 20% - additional cement might be required.**

C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).
- 2.

Option 1:

- a. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **3000 (3M)** psi.
- b. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the intermediate casing shoe shall be **5000 (5M)** psi.
- c. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the 2nd intermediate 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.**

Option 2:

1. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **10,000 (10M) psi. Variance is approved to use a 5000 (5M) Annular which shall be tested to 5000 (5M) psi.**
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
 - e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

D. SPECIAL REQUIREMENT (S)

BOP Break Testing Variance

- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer prior to the commencement of any BOP Break Testing operations.
- A full BOP test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOP test will be required.

Offline Cementing

- Contact the BLM prior to the commencement of any offline cementing procedure.

Communitization Agreement

- The operator will submit a Communitization Agreement to the Carlsbad Field Office, 620 E Greene St. Carlsbad, New Mexico 88220, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all

such owners and will make those signatures available to the BLM immediately upon request.

- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

GENERAL REQUIREMENTS

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

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

☒ 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,

(575) 361-2822

☒ Lea County

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

393-3612

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.
2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.

3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log.
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.

NMK7102019

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) 748-1282 Fax: (575) 748-9720
District III
1000 Rio Bravo Road, Alamo, NM 87110
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

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

☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-45230	Pool Code 98220	Pool Name Purple Sage Wolfcamp
Property Code 322245	Property Name PLATINUM MDP1 "34-3" FEDERAL COM	Well Number 171H
OGRID No. 16696	Operator Name OXY USA INC.	Elevation 3423.2'

Surface Location

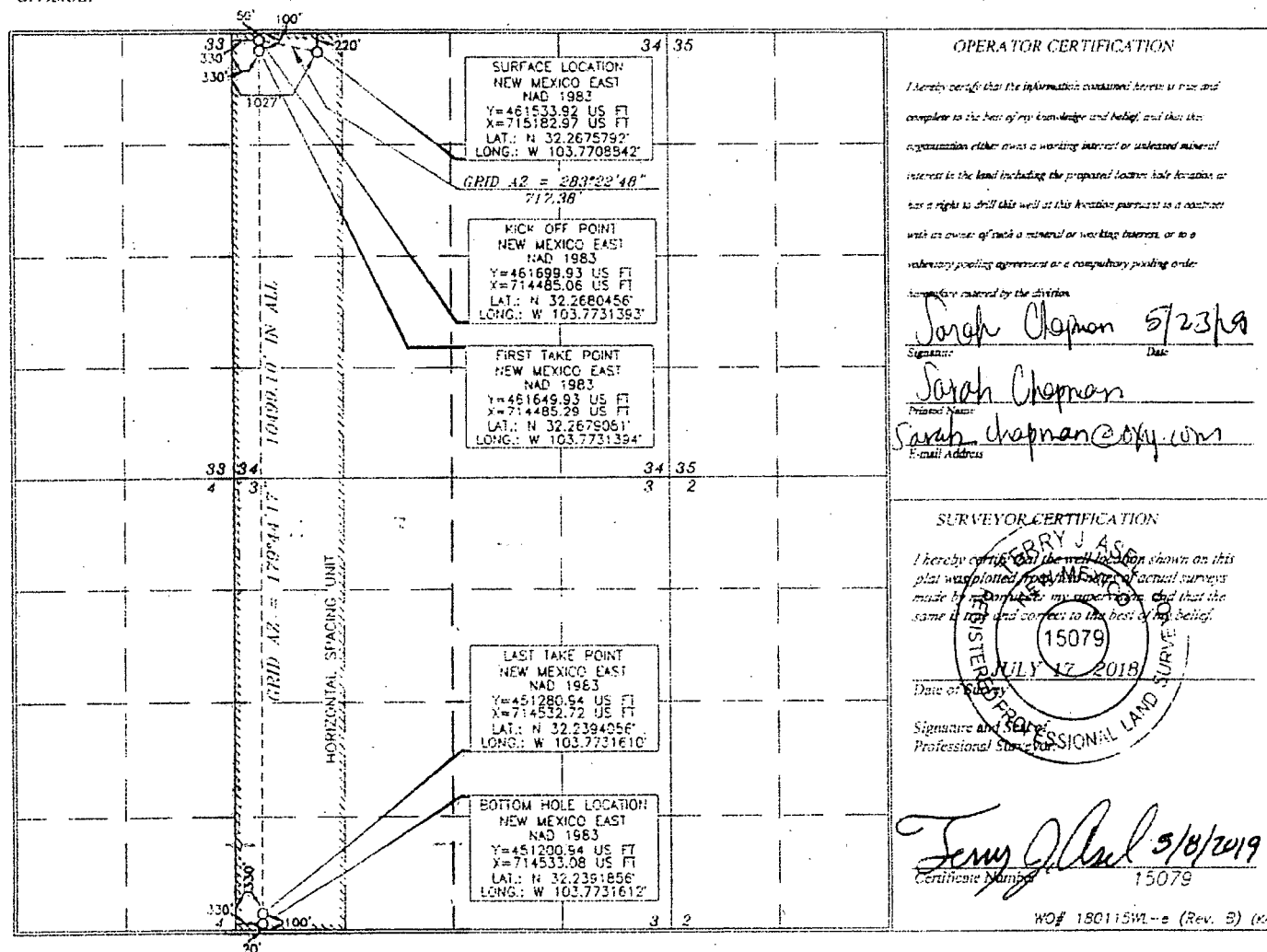
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	34	23 SOUTH	31 EAST, N.M.P.M.		220'	NORTH	1027'	WEST	EDDY

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
M	3	24 SOUTH	31 EAST, N.M.P.M.		20'	SOUTH	330'	WEST	EDDY

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
640			

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.



RwP 10-29-19

Intent ☒ As Drilled ☐

API # 30-015-45230			
Operator Name: Oxy USA Inc.		Property Name: Platinum MDP 34-3 Federal Com	Well Number 1714

Kick Off Point (KOP)

UL D	Section 34	Township 23S	Range 31E	Lot	Feet 50	From N/S north	Feet 330	From E/W west	County EDDY
Latitude 32.2680470					Longitude 103.7731393				NAD NAD83

First Take Point (FTP)

UL D	Section 34	Township 23S	Range 31E	Lot	Feet 100	From N/S north	Feet 330	From E/W west	County EDDY
Latitude 32.2679081					Longitude 103.773194				NAD NAD83

Last Take Point (LTP)

UL M	Section 3	Township 24S	Range 31E	Lot	Feet 100	From N/S south	Feet 330	From E/W west	County EDDY
Latitude 32.2594056					Longitude 103.7731610				NAD NAD83

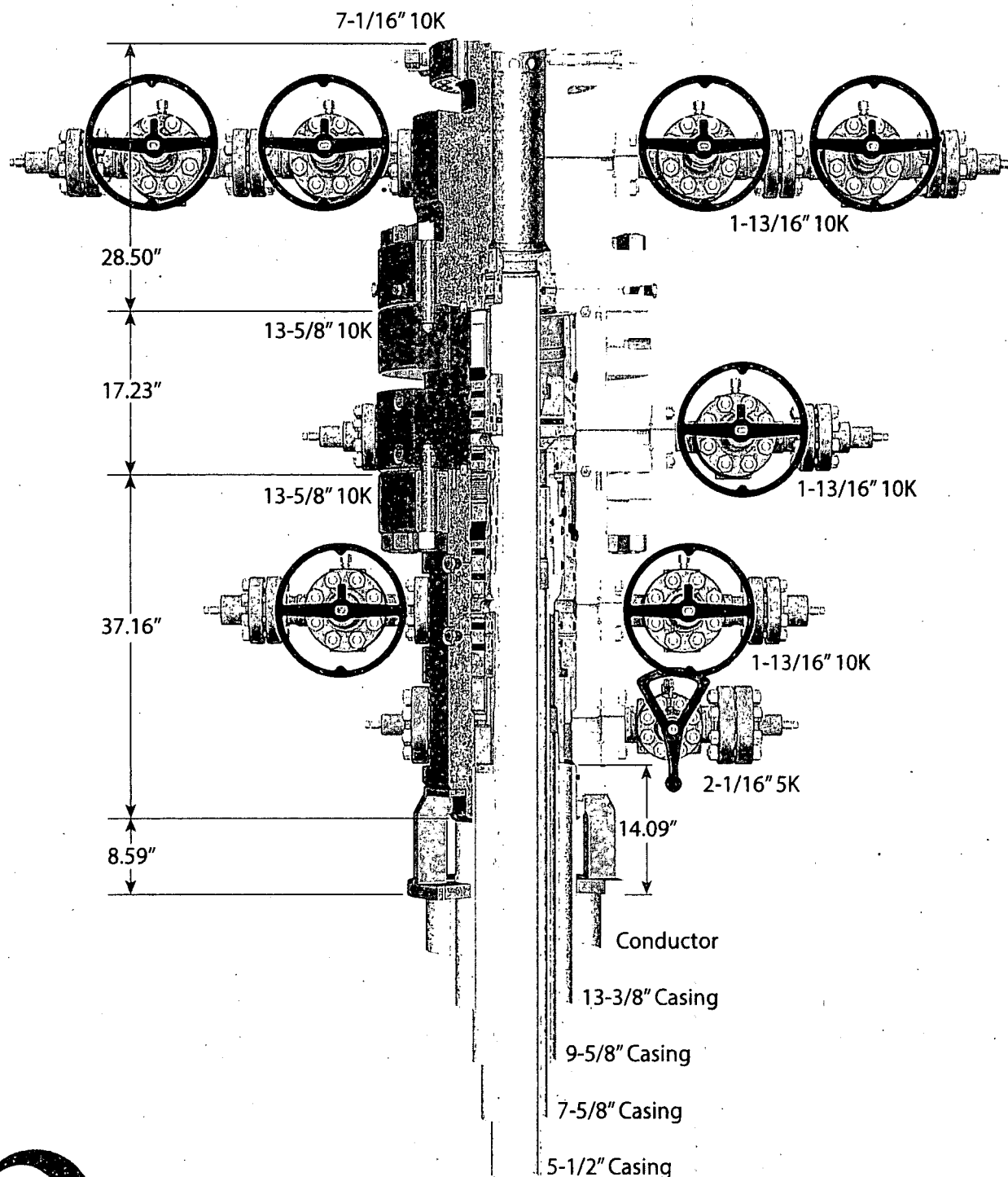
Is this well the defining well for the Horizontal Spacing Unit? ☐

Is this well an infill well? ☐

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #			
Operator Name:		Property Name:	Well Number

KZ 06/29/2018



1615045
NOTE: All dimensions on this drawing are estimated measurements and should be evaluated by engineering.

PERFORMANCE DATA

TMK UP TORQ™ DQW
Technical Data Sheet

5.500 in

20.00 lbs/ft

P110 CY

Tubular Parameters

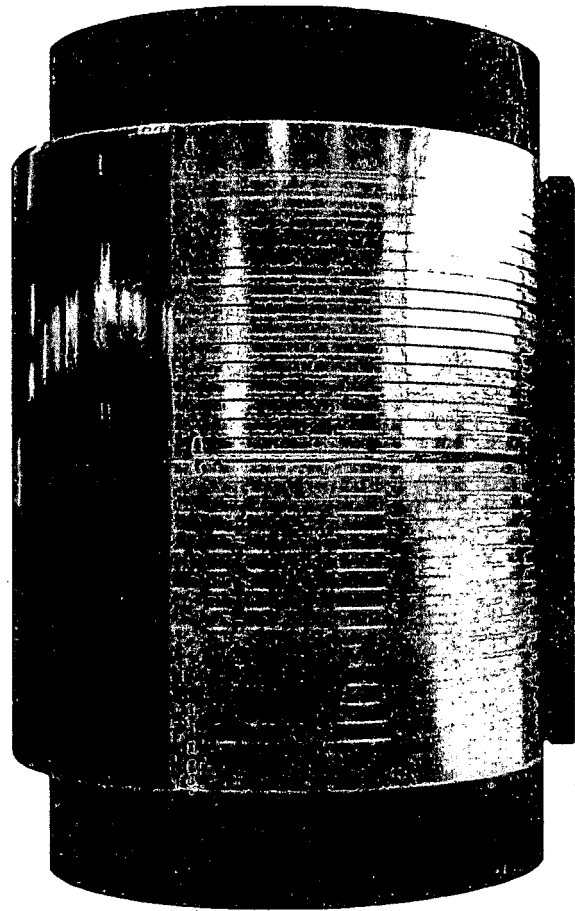
Size	5.500	in	Minimum Yield	110,000	psi
Nominal Weight	20.00	lbs/ft	Minimum Tensile	125,000	psi
Grade	P110 CY		Yield Load	641,000	lbs
PE Weight	19.81	lbs/ft	Tensile Load	729,000	lbs
Wall Thickness	0.361	in	Min. Internal Yield Pressure	12,640	psi
Nominal ID	4.778	in	Collapse Pressure	11,110	psi
Drift Diameter	4.653	in			
Nom. Pipe Body Area	5.828	in ²			

Connection Parameters

Connection OD	6.050	in
Connection ID	4.778	in
Make-Up Loss	4.324	in
Critical Section Area	5.828	in ²
Tension Efficiency	100.0	%
Compression Efficiency	100.0	%
Yield Load In Tension	641,000	lbs
Min. Internal Yield Pressure	12,640	psi
Collapse Pressure	11,110	psi
Uniaxial Bending	92	°/100 ft

Make-Up Torques

Min. Make-Up Torque	14,000	ft-lbs
Opt. Make-Up Torque	16,000	ft-lbs
Max. Make-Up Torque	18,000	ft-lbs
Operating Torque	36,800	ft-lbs
Yield Torque	46,000	ft-lbs



Printed on: March-05-2019

NOTE:

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PERFORMANCE DATA

TMK UP DQX
Technical Data Sheet

5.500 in

20.00 lbs/ft

P-110

Tubular Parameters

Size	5.500	in	Minimum Yield	110,000	psi
Nominal Weight	20.00	lbs/ft	Minimum Tensile	125,000	psi
Grade	P-110		Yield Load	641,000	lbs
PE Weight	19.81	lbs/ft	Tensile Load	729,000	lbs
Wall Thickness	0.361	in	Min. Internal Yield Pressure	12,600	psi
Nominal ID	4.778	in	Collapse Pressure	11,100	psi
Drift Diameter	4.653	in			
Nom. Pipe Body Area	5.828	in ²			

Connection Parameters

Connection OD	6.050	in
Connection ID	4.778	in
Make-Up Loss	4.122	in
Critical Section Area	5.828	in ²
Tension Efficiency	100.0	%
Compression Efficiency	100.0	%
Yield Load In Tension	641,000	lbs
Min. Internal Yield Pressure	12,600	psi
Collapse Pressure	11,100	psi

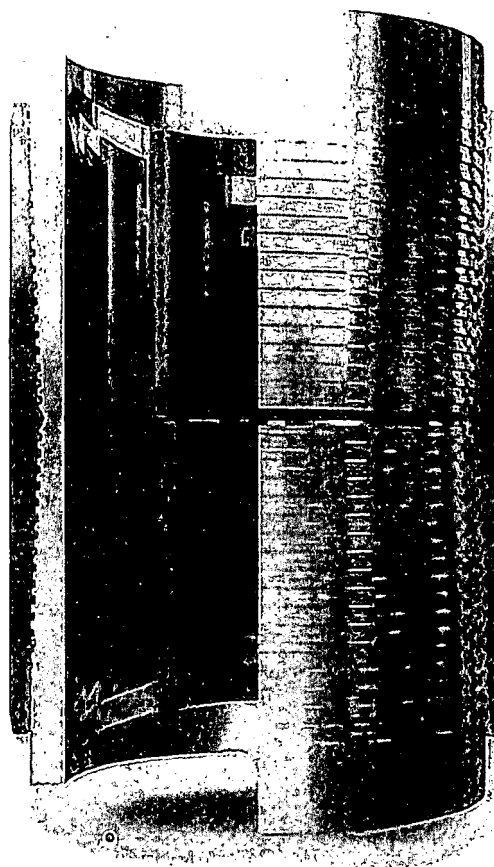
Make-Up Torques

Min. Make-Up Torque	11,600	ft-lbs
Opt. Make-Up Torque	12,900	ft-lbs
Max. Make-Up Torque	14,100	ft-lbs
Yield Torque	20,600	ft-lbs

Printed on: July-29-2014

NOTE:

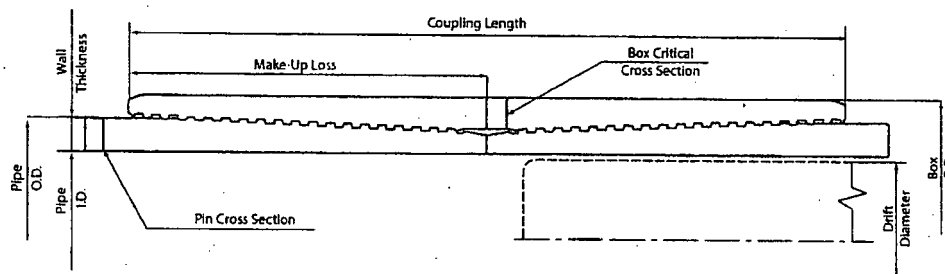
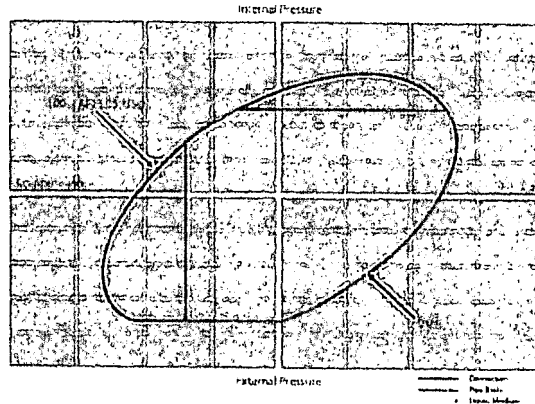
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IPSCO

TECHNICAL DATA SHEET TMK UP DQX 5.5 X 20 P110

TUBULAR PARAMETERS		PIPE BODY PROPERTIES	
Nominal OD, (inch)	5.500	PE Weight, (lbs/ft)	19.81
Wall Thickness, (inch)	0.361	Nominal Weight, (lbs/ft)	20.00
Pipe Grade	P110	Nominal ID, (inch)	4.778
Coupling	Regular	Drift Diameter, (inch)	4.653
Coupling Grade	P110	Nominal Pipe Body Area, (sq inch)	5.828
Drift	Standard	Yield Strength in Tension, (klbs)	641
		Min. Internal Yield Pressure, (psi)	12 640
		Collapse Pressure, (psi)	11 110
CONNECTION PARAMETERS			
Connection OD (inch)	6.05		
Connection ID, (inch)	4.778		
Make-Up Loss, (inch)	4.122		
Connection Critical Area, (sq inch)	5.828		
Yield Strength in Tension, (klbs)	641		
Yield Strength in Compression, (klbs)	641		
Tension Efficiency	100%		
Compression Efficiency	100%		
Min. Internal Yield Pressure, (psi)	12 640		
Collapse Pressure, (psi)	11 110		
Uniaxial Bending (deg/100ft)	91.7		
MAKE-UP TORQUES			
Yield Torque, (ft-lb)	20 600		
Minimum Make-Up Torque, (ft-lb)	11 600		
Optimum Make-Up Torque, (ft-lb)	12 900		
Maximum Make-Up Torque, (ft-lb)	14 100		



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Print date: 12/07/2017 15:09

PERFORMANCE DATA

TMK UP SF TORQ™

5.500 in

20.00 lbs/ft

P110 HC

Technical Data Sheet

Tubular Parameters

Size	5.500	in	Minimum Yield	110,000	psi
Nominal Weight	20.00	lbs/ft	Minimum Tensile	125,000	psi
Grade	P110 HC		Yield Load	641,000	lbs
PE Weight	19.81	lbs/ft	Tensile Load	728,000	lbs
Wall Thickness	0.361	in	Min. Internal Yield Pressure	12,640	psi
Nominal ID	4.778	in	Collapse Pressure	12,780	psi
Drift Diameter	4.653	in			
Nom. Pipe Body Area	5.828	in ²			

Connection Parameters

Connection OD	5.777	in
Connection ID	4.734	in
Make-Up Loss	5.823	in
Critical Section Area	5.875	in ²
Tension Efficiency	90.0	%
Compression Efficiency	90.0	%
Yield Load In Tension	576,000	lbs
Min. Internal Yield Pressure	12,640	psi
Collapse Pressure	12,780	psi
Uniaxial Bending	83	°/ 100 ft

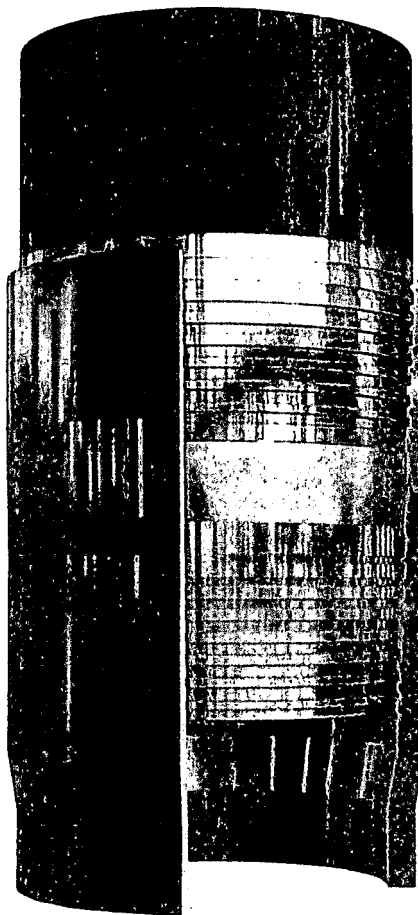
Make-Up Torques

Min. Make-Up Torque	15,700	ft-lbs
Opt. Make-Up Torque	19,600	ft-lbs
Max. Make-Up Torque	21,600	ft-lbs
Operating Torque	29,000	ft-lbs
Yield Torque	36,000	ft-lbs

Printed on: February-22-2018

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TECHNICAL DATA SHEET TMK UP FJ 7.625 X 26.4 L80 HC

TUBULAR PARAMETERS

Nominal OD, (inch)	7.625
Wall Thickness, (inch)	0.328
Pipe Grade	L80 HC
Drift	Standard

PIPE BODY PROPERTIES

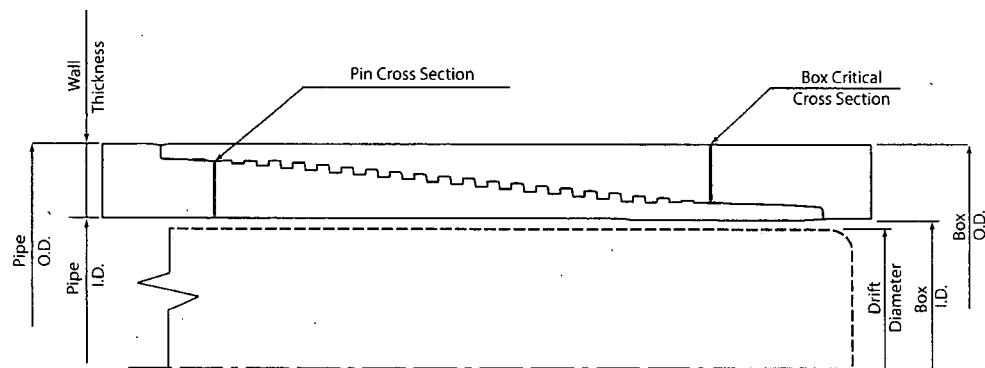
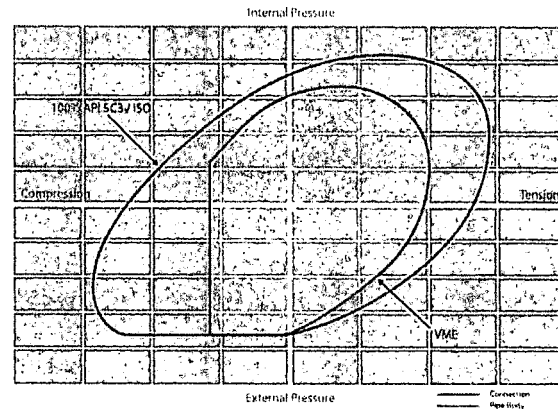
PE Weight, (lbs/ft)	25.56
Nominal Weight, (lbs/ft)	26.40
Nominal ID, (inch)	6.969
Drift Diameter, (inch)	6.844
Nominal Pipe Body Area, (sq inch)	7.519
Yield Strength in Tension, (klbs)	601
Min. Internal Yield Pressure, (psi)	6 020
Collapse Pressure, (psi)	3 910

CONNECTION PARAMETERS

Connection OD (inch)	7.63
Connection ID, (inch)	6.975
Make-Up Loss, (inch)	4.165
Connection Critical Area, (sq inch)	2.520
Yield Strength in Tension, (klbs)	347
Yield Strength in Compression, (klbs)	347
Tension Efficiency	58%
Compression Efficiency	58%
Min. Internal Yield Pressure, (psi)	6 020
Collapse Pressure, (psi)	3 910
Uniaxial Bending (deg/100ft)	28.0

MAKE-UP TORQUES

Yield Torque, (ft-lb)	22 200
Minimum Make-Up Torque, (ft-lb)	12 500
Optimum Make-Up Torque, (ft-lb)	13 900
Maximum Make-Up Torque, (ft-lb)	15 300



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Print date: 07/10/2018 20:11

TECHNICAL DATA SHEET TMK UP SF 7.625 X 26.4 L80 HC

TUBULAR PARAMETERS

Nominal OD, (inch)	7.625
Wall Thickness, (inch)	0.328
Pipe Grade	L80 HC
Drift	Standard

PIPE BODY PROPERTIES

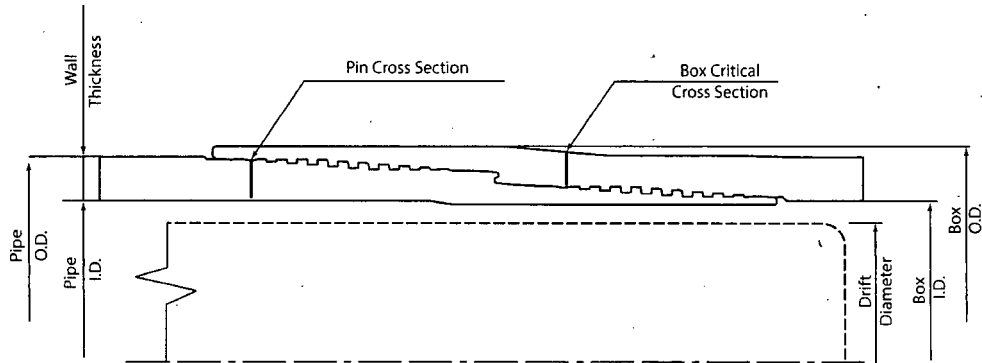
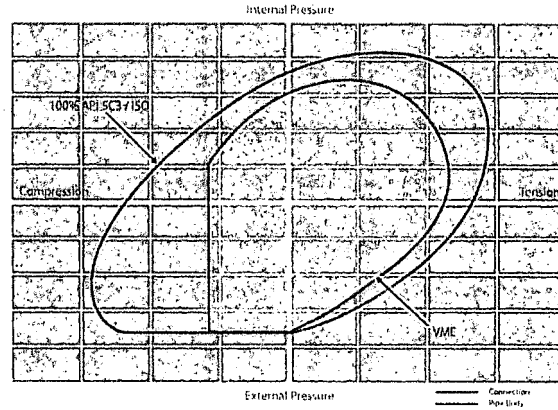
PE Weight, (lbs/ft)	25.56
Nominal Weight, (lbs/ft)	26.40
Nominal ID, (inch)	6.969
Drift Diameter, (inch)	6.844
Nominal Pipe Body Area, (sq inch)	7.519
Yield Strength in Tension, (klbs)	601
Min. Internal Yield Pressure, (psi)	6 020
Collapse Pressure, (psi)	3 910

CONNECTION PARAMETERS

Connection OD (inch)	7.79
Connection ID, (inch)	6.938
Make-Up Loss, (inch)	6.029
Connection Critical Area, (sq inch)	5.948
Yield Strength in Tension, (klbs)	533
Yield Strength in Compression, (klbs)	533
Tension Efficiency	89%
Compression Efficiency	89%
Min. Internal Yield Pressure, (psi)	6 020
Collapse Pressure, (psi)	3 910
Uniaxial Bending (deg/100ft)	42.7

MAKE-UP TORQUES

Yield Torque, (ft-lb)	22 600
Minimum Make-Up Torque, (ft-lb)	15 000
Optimum Make-Up Torque, (ft-lb)	16 500
Maximum Make-Up Torque, (ft-lb)	18 200



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Print date: 07/10/2018 20:00

OXY

**PRD NM DIRECTIONAL PLANS (NAD 1983)
PLATINUM MDP1 34-3 FED COM
PLATINUM MDP1 34-3 FED COM 171H**

WB00

Plan: Permitting Plan

Standard Planning Report

21 May, 2019

Oxy Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well PLATINUM MDP1 34-3 FED COM 171H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=26.5' @ 3449.70ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=26.5' @ 3449.70ft
Site:	PLATINUM MDP1 34-3 FED COM	North Reference:	Grid
Well:	PLATINUM MDP1 34-3 FED COM 171H	Survey Calculation Method:	Minimum Curvature
Wellbore:	WB00		
Design:	Permitting Plan		

Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		Using geodetic scale factor

Site:	PLATINUM MDP1 34-3 FED COM		
Site Position:	From: Map	Northing:	461,352.44 usft
		Easting:	714,923.95 usft
		Latitude:	32° 16' 1.502765 N
Position Uncertainty:	50.00 ft	Slot Radius:	13.200 in
		Longitude:	103° 46' 18.211063 W
		Grid Convergence:	0.30 °

Well:	PLATINUM MDP1 34-3 FED COM 171H		
Well Position	+N/-S	181.49 ft	Northing:
	+E/-W	259.04 ft	Easting:
			Latitude:
			Longitude:
Position Uncertainty	2.00 ft	Wellhead Elevation:	0.00 ft
		Ground Level:	3,423.20 ft

Wellbore:	WB00		
Magnetics:	Model Name	Sample Date	Declination
	HDGM	3/28/2018	6.88
			Dip Angle
			60.02
			Field Strength
			48,086

Design:	Permitting Plan		
Audit Notes:			
Version:	Phase:	PROTOTYPE	Tie On Depth:
			0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(ft)	(ft)	(ft)
	0.00	0.00	0.00
			Direction:
			183.60

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,765.00	0.00	0.00	4,765.00	0.00	0.00	0.00	0.00	0.00	0.00	
5,264.98	10.00	317.46	5,262.44	32.06	-29.42	2.00	2.00	0.00	317.46	
10,512.40	10.00	317.46	10,430.15	703.40	-645.48	0.00	0.00	0.00	0.00	
11,444.46	10.00	179.74	11,356.24	681.91	-700.31	2.00	0.00	-14.78	-158.56	
12,246.11	90.16	179.74	11,829.70	116.02	-697.72	10.00	10.00	0.00	0.00	FTP (Platinum)
22,695.86	90.16	179.74	11,799.70	-10,333.58	-649.93	0.00	0.00	0.00	0.00	PBHL (Platinum)

Oxy

Planning Report

Database:	HOPSP	Local Co-ordinate Reference:	Well PLATINUM MDP1 34-3 FED COM 171H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=26.5' @ 3449.70ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=26.5' @ 3449.70ft
Site:	PLATINUM MDP1 34-3 FED COM	North Reference:	Grid
Well:	PLATINUM MDP1 34-3 FED COM 171H	Survey Calculation Method:	Minimum Curvature
Wellbore:	WB00		
Design:	Permitting Plan		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.00	0.00	0.00
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.00	0.00	0.00
4,765.00	0.00	0.00	4,765.00	0.00	0.00	0.00	0.00	0.00	0.00
4,800.00	0.70	317.46	4,800.00	0.16	-0.14	-0.15	2.00	2.00	0.00
4,900.00	2.70	317.46	4,899.95	2.34	-2.15	-2.20	2.00	2.00	0.00
5,000.00	4.70	317.46	4,999.74	7.10	-6.51	-6.67	2.00	2.00	0.00
5,100.00	6.70	317.46	5,099.24	14.42	-13.23	-13.56	2.00	2.00	0.00
5,200.00	8.70	317.46	5,198.33	24.29	-22.29	-22.84	2.00	2.00	0.00

Oxy Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well PLATINUM MDP1 34-3 FED COM 171H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=26.5' @ 3449.70ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=26.5' @ 3449.70ft
Site:	PLATINUM MDP1 34-3 FED COM	North Reference:	Grid
Well:	PLATINUM MDP1 34-3 FED COM 171H	Survey Calculation Method:	Minimum Curvature
Wellbore:	WB00		
Design:	Permitting Plan		

Planned/Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	N/S (ft)	E/W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,264.98	10.00	317.46	5,262.44	32.06	-29.42	-30.15	2.00	2.00	0.00
5,300.00	10.00	317.46	5,296.93	36.54	-33.54	-34.37	0.00	0.00	0.00
5,400.00	10.00	317.46	5,395.41	49.34	-45.28	-46.40	0.00	0.00	0.00
5,500.00	10.00	317.46	5,493.90	62.13	-57.02	-58.43	0.00	0.00	0.00
5,600.00	10.00	317.46	5,592.38	74.93	-68.76	-70.46	0.00	0.00	0.00
5,700.00	10.00	317.46	5,690.86	87.72	-80.50	-82.49	0.00	0.00	0.00
5,800.00	10.00	317.46	5,789.34	100.51	-92.24	-94.53	0.00	0.00	0.00
5,900.00	10.00	317.46	5,887.82	113.31	-103.98	-106.56	0.00	0.00	0.00
6,000.00	10.00	317.46	5,986.30	126.10	-115.72	-118.59	0.00	0.00	0.00
6,100.00	10.00	317.46	6,084.78	138.89	-127.46	-130.62	0.00	0.00	0.00
6,200.00	10.00	317.46	6,183.26	151.69	-139.20	-142.65	0.00	0.00	0.00
6,300.00	10.00	317.46	6,281.74	164.48	-150.94	-154.68	0.00	0.00	0.00
6,400.00	10.00	317.46	6,380.22	177.27	-162.68	-166.71	0.00	0.00	0.00
6,500.00	10.00	317.46	6,478.70	190.07	-174.42	-178.75	0.00	0.00	0.00
6,600.00	10.00	317.46	6,577.19	202.86	-186.16	-190.78	0.00	0.00	0.00
6,700.00	10.00	317.46	6,675.67	215.66	-197.90	-202.81	0.00	0.00	0.00
6,800.00	10.00	317.46	6,774.15	228.45	-209.64	-214.84	0.00	0.00	0.00
6,900.00	10.00	317.46	6,872.63	241.24	-221.38	-226.87	0.00	0.00	0.00
7,000.00	10.00	317.46	6,971.11	254.04	-233.12	-238.90	0.00	0.00	0.00
7,100.00	10.00	317.46	7,069.59	266.83	-244.86	-250.94	0.00	0.00	0.00
7,200.00	10.00	317.46	7,168.07	279.62	-256.60	-262.97	0.00	0.00	0.00
7,300.00	10.00	317.46	7,266.55	292.42	-268.34	-275.00	0.00	0.00	0.00
7,400.00	10.00	317.46	7,365.03	305.21	-280.08	-287.03	0.00	0.00	0.00
7,500.00	10.00	317.46	7,463.51	318.01	-291.82	-299.06	0.00	0.00	0.00
7,600.00	10.00	317.46	7,561.99	330.80	-303.56	-311.09	0.00	0.00	0.00
7,700.00	10.00	317.46	7,660.48	343.59	-315.30	-323.12	0.00	0.00	0.00
7,800.00	10.00	317.46	7,758.96	356.39	-327.04	-335.16	0.00	0.00	0.00
7,900.00	10.00	317.46	7,857.44	369.18	-338.78	-347.19	0.00	0.00	0.00
8,000.00	10.00	317.46	7,955.92	381.97	-350.52	-359.22	0.00	0.00	0.00
8,100.00	10.00	317.46	8,054.40	394.77	-362.26	-371.25	0.00	0.00	0.00
8,200.00	10.00	317.46	8,152.88	407.56	-374.00	-383.28	0.00	0.00	0.00
8,300.00	10.00	317.46	8,251.36	420.35	-385.74	-395.31	0.00	0.00	0.00
8,400.00	10.00	317.46	8,349.84	433.15	-397.48	-407.35	0.00	0.00	0.00
8,500.00	10.00	317.46	8,448.32	445.94	-409.22	-419.38	0.00	0.00	0.00
8,600.00	10.00	317.46	8,546.80	458.74	-420.96	-431.41	0.00	0.00	0.00
8,700.00	10.00	317.46	8,645.28	471.53	-432.70	-443.44	0.00	0.00	0.00
8,800.00	10.00	317.46	8,743.77	484.32	-444.44	-455.47	0.00	0.00	0.00
8,900.00	10.00	317.46	8,842.25	497.12	-456.18	-467.50	0.00	0.00	0.00
9,000.00	10.00	317.46	8,940.73	509.91	-467.92	-479.53	0.00	0.00	0.00
9,100.00	10.00	317.46	9,039.21	522.70	-479.66	-491.57	0.00	0.00	0.00
9,200.00	10.00	317.46	9,137.69	535.50	-491.40	-503.60	0.00	0.00	0.00
9,300.00	10.00	317.46	9,236.17	548.29	-503.14	-515.63	0.00	0.00	0.00
9,400.00	10.00	317.46	9,334.65	561.08	-514.88	-527.66	0.00	0.00	0.00
9,500.00	10.00	317.46	9,433.13	573.88	-526.62	-539.69	0.00	0.00	0.00
9,600.00	10.00	317.46	9,531.61	586.67	-538.36	-551.72	0.00	0.00	0.00
9,700.00	10.00	317.46	9,630.09	599.47	-550.10	-563.75	0.00	0.00	0.00
9,800.00	10.00	317.46	9,728.58	612.26	-561.84	-575.79	0.00	0.00	0.00
9,900.00	10.00	317.46	9,827.06	625.05	-573.58	-587.82	0.00	0.00	0.00
10,000.00	10.00	317.46	9,925.54	637.85	-585.32	-599.85	0.00	0.00	0.00
10,100.00	10.00	317.46	10,024.02	650.64	-597.07	-611.88	0.00	0.00	0.00
10,200.00	10.00	317.46	10,122.50	663.43	-608.81	-623.91	0.00	0.00	0.00
10,300.00	10.00	317.46	10,220.98	676.23	-620.55	-635.94	0.00	0.00	0.00
10,400.00	10.00	317.46	10,319.46	689.02	-632.29	-647.98	0.00	0.00	0.00
10,500.00	10.00	317.46	10,417.94	701.81	-644.03	-660.01	0.00	0.00	0.00

Oxy Planning Report

Database:	HOPSP	Local Co-ordinate Reference:	Well PLATINUM MDP1 34-3 FED COM 171H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=26.5' @ 3449.70ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MDI Reference:	RKB=26.5' @ 3449.70ft
Site:	PLATINUM MDP1 34-3 FED COM	North Reference:	Grid
Well:	PLATINUM MDP1 34-3 FED COM 171H	Survey Calculation Method:	Minimum Curvature
Wellbore:	WB00		
Design:	Permitting Plan		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	N/S (ft)	E/W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
10,512.40	10.00	317.46	10,430.15	703.40	-645.48	-661.50	0.00	0.00	0.00	
10,600.00	8.39	313.07	10,516.63	713.37	-655.30	-670.83	2.00	-1.83	-5.01	
10,700.00	6.65	305.54	10,615.76	721.72	-665.34	-678.54	2.00	-1.74	-7.53	
10,800.00	5.09	293.10	10,715.24	726.83	-674.13	-683.08	2.00	-1.55	-12.44	
10,900.00	3.96	271.94	10,814.93	728.69	-681.67	-684.46	2.00	-1.13	-21.16	
11,000.00	3.66	241.83	10,914.72	727.29	-687.94	-682.68	2.00	-0.30	-30.11	
11,100.00	4.38	214.81	11,014.48	722.65	-692.94	-677.73	2.00	0.71	-27.02	
11,200.00	5.73	197.91	11,114.10	714.77	-696.65	-669.63	2.00	1.36	-16.90	
11,300.00	7.39	187.98	11,213.44	703.65	-699.08	-658.38	2.00	1.65	-9.93	
11,400.00	9.18	181.78	11,312.40	689.31	-700.22	-644.00	2.00	1.79	-6.20	
11,444.46	10.00	179.74	11,356.24	681.91	-700.31	-636.61	2.00	1.85	-4.58	
11,500.00	15.55	179.74	11,410.38	669.63	-700.25	-624.36	10.00	10.00	0.00	
11,600.00	25.55	179.74	11,503.90	634.57	-700.09	-589.37	10.00	10.00	0.00	
11,700.00	35.55	179.74	11,589.90	583.80	-699.86	-538.72	10.00	10.00	0.00	
11,800.00	45.55	179.74	11,665.78	518.86	-699.56	-473.93	10.00	10.00	0.00	
11,900.00	55.55	179.74	11,729.24	441.74	-699.21	-396.98	10.00	10.00	0.00	
12,000.00	65.55	179.74	11,778.34	354.77	-698.81	-310.21	10.00	10.00	0.00	
12,100.00	75.55	179.74	11,811.59	260.60	-698.38	-216.25	10.00	10.00	0.00	
12,200.00	85.55	179.74	11,827.98	162.08	-697.93	-117.95	10.00	10.00	0.00	
12,246.11	90.16	179.74	11,829.70	116.02	-697.72	-71.99	10.00	10.00	0.00	
12,300.00	90.16	179.74	11,829.55	62.12	-697.47	-18.22	0.00	0.00	0.00	
12,400.00	90.16	179.74	11,829.26	-37.88	-697.02	81.55	0.00	0.00	0.00	
12,500.00	90.16	179.74	11,828.97	-137.87	-696.56	181.32	0.00	0.00	0.00	
12,600.00	90.16	179.74	11,828.68	-237.87	-696.10	281.10	0.00	0.00	0.00	
12,700.00	90.16	179.74	11,828.40	-337.87	-695.64	380.87	0.00	0.00	0.00	
12,800.00	90.16	179.74	11,828.11	-437.87	-695.19	480.64	0.00	0.00	0.00	
12,900.00	90.16	179.74	11,827.82	-537.87	-694.73	580.41	0.00	0.00	0.00	
13,000.00	90.16	179.74	11,827.54	-637.87	-694.27	680.19	0.00	0.00	0.00	
13,100.00	90.16	179.74	11,827.25	-737.87	-693.82	779.96	0.00	0.00	0.00	
13,200.00	90.16	179.74	11,826.96	-837.86	-693.36	879.73	0.00	0.00	0.00	
13,300.00	90.16	179.74	11,826.67	-937.86	-692.90	979.50	0.00	0.00	0.00	
13,400.00	90.16	179.74	11,826.39	-1,037.86	-692.44	1,079.28	0.00	0.00	0.00	
13,500.00	90.16	179.74	11,826.10	-1,137.86	-691.99	1,179.05	0.00	0.00	0.00	
13,600.00	90.16	179.74	11,825.81	-1,237.86	-691.53	1,278.82	0.00	0.00	0.00	
13,700.00	90.16	179.74	11,825.53	-1,337.86	-691.07	1,378.60	0.00	0.00	0.00	
13,800.00	90.16	179.74	11,825.24	-1,437.85	-690.61	1,478.37	0.00	0.00	0.00	
13,900.00	90.16	179.74	11,824.95	-1,537.85	-690.16	1,578.14	0.00	0.00	0.00	
14,000.00	90.16	179.74	11,824.67	-1,637.85	-689.70	1,677.91	0.00	0.00	0.00	
14,100.00	90.16	179.74	11,824.38	-1,737.85	-689.24	1,777.69	0.00	0.00	0.00	
14,200.00	90.16	179.74	11,824.09	-1,837.85	-688.78	1,877.46	0.00	0.00	0.00	
14,300.00	90.16	179.74	11,823.80	-1,937.85	-688.33	1,977.23	0.00	0.00	0.00	
14,400.00	90.16	179.74	11,823.52	-2,037.85	-687.87	2,077.00	0.00	0.00	0.00	
14,500.00	90.16	179.74	11,823.23	-2,137.84	-687.41	2,176.78	0.00	0.00	0.00	
14,600.00	90.16	179.74	11,822.94	-2,237.84	-686.95	2,276.55	0.00	0.00	0.00	
14,700.00	90.16	179.74	11,822.66	-2,337.84	-686.50	2,376.32	0.00	0.00	0.00	
14,800.00	90.16	179.74	11,822.37	-2,437.84	-686.04	2,476.09	0.00	0.00	0.00	
14,900.00	90.16	179.74	11,822.08	-2,537.84	-685.58	2,575.87	0.00	0.00	0.00	
15,000.00	90.16	179.74	11,821.79	-2,637.84	-685.13	2,675.64	0.00	0.00	0.00	
15,100.00	90.16	179.74	11,821.51	-2,737.84	-684.67	2,775.41	0.00	0.00	0.00	
15,200.00	90.16	179.74	11,821.22	-2,837.83	-684.21	2,875.18	0.00	0.00	0.00	
15,300.00	90.16	179.74	11,820.93	-2,937.83	-683.75	2,974.96	0.00	0.00	0.00	
15,400.00	90.16	179.74	11,820.65	-3,037.83	-683.30	3,074.73	0.00	0.00	0.00	
15,500.00	90.16	179.74	11,820.36	-3,137.83	-682.84	3,174.50	0.00	0.00	0.00	
15,600.00	90.16	179.74	11,820.07	-3,237.83	-682.38	3,274.28	0.00	0.00	0.00	

Oxy Planning Report

Database:	HOPSP	Local Co-ordinate Reference:	Well PLATINUM MDP1 34-3 FED COM 171H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=26.5' @ 3449.70ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=26.5' @ 3449.70ft
Site:	PLATINUM MDP1 34-3 FED COM	North Reference:	Grid
Well:	PLATINUM MDP1 34-3 FED COM 171H	Survey Calculation Method:	Minimum Curvature
Wellbore:	WB00		
Design:	Permitting Plan		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
15,700.00	90.16	179.74	11,819.78	-3,337.83	-681.92	3,374.05	0.00	0.00	0.00
15,800.00	90.16	179.74	11,819.50	-3,437.83	-681.47	3,473.82	0.00	0.00	0.00
15,900.00	90.16	179.74	11,819.21	-3,537.82	-681.01	3,573.59	0.00	0.00	0.00
16,000.00	90.16	179.74	11,818.92	-3,637.82	-680.55	3,673.37	0.00	0.00	0.00
16,100.00	90.16	179.74	11,818.64	-3,737.82	-680.09	3,773.14	0.00	0.00	0.00
16,200.00	90.16	179.74	11,818.35	-3,837.82	-679.64	3,872.91	0.00	0.00	0.00
16,300.00	90.16	179.74	11,818.06	-3,937.82	-679.18	3,972.68	0.00	0.00	0.00
16,400.00	90.16	179.74	11,817.77	-4,037.82	-678.72	4,072.46	0.00	0.00	0.00
16,500.00	90.16	179.74	11,817.49	-4,137.82	-678.27	4,172.23	0.00	0.00	0.00
16,600.00	90.16	179.74	11,817.20	-4,237.81	-677.81	4,272.00	0.00	0.00	0.00
16,700.00	90.16	179.74	11,816.91	-4,337.81	-677.35	4,371.77	0.00	0.00	0.00
16,800.00	90.16	179.74	11,816.63	-4,437.81	-676.89	4,471.55	0.00	0.00	0.00
16,900.00	90.16	179.74	11,816.34	-4,537.81	-676.44	4,571.32	0.00	0.00	0.00
17,000.00	90.16	179.74	11,816.05	-4,637.81	-675.98	4,671.09	0.00	0.00	0.00
17,100.00	90.16	179.74	11,815.77	-4,737.81	-675.52	4,770.87	0.00	0.00	0.00
17,200.00	90.16	179.74	11,815.48	-4,837.81	-675.06	4,870.64	0.00	0.00	0.00
17,300.00	90.16	179.74	11,815.19	-4,937.80	-674.61	4,970.41	0.00	0.00	0.00
17,400.00	90.16	179.74	11,814.90	-5,037.80	-674.15	5,070.18	0.00	0.00	0.00
17,500.00	90.16	179.74	11,814.62	-5,137.80	-673.69	5,169.96	0.00	0.00	0.00
17,600.00	90.16	179.74	11,814.33	-5,237.80	-673.23	5,269.73	0.00	0.00	0.00
17,700.00	90.16	179.74	11,814.04	-5,337.80	-672.78	5,369.50	0.00	0.00	0.00
17,800.00	90.16	179.74	11,813.76	-5,437.80	-672.32	5,469.27	0.00	0.00	0.00
17,900.00	90.16	179.74	11,813.47	-5,537.80	-671.86	5,569.05	0.00	0.00	0.00
18,000.00	90.16	179.74	11,813.18	-5,637.79	-671.40	5,668.82	0.00	0.00	0.00
18,100.00	90.16	179.74	11,812.89	-5,737.79	-670.95	5,768.59	0.00	0.00	0.00
18,200.00	90.16	179.74	11,812.61	-5,837.79	-670.49	5,868.36	0.00	0.00	0.00
18,300.00	90.16	179.74	11,812.32	-5,937.79	-670.03	5,968.14	0.00	0.00	0.00
18,400.00	90.16	179.74	11,812.03	-6,037.79	-669.58	6,067.91	0.00	0.00	0.00
18,500.00	90.16	179.74	11,811.75	-6,137.79	-669.12	6,167.68	0.00	0.00	0.00
18,600.00	90.16	179.74	11,811.46	-6,237.79	-668.66	6,267.46	0.00	0.00	0.00
18,700.00	90.16	179.74	11,811.17	-6,337.78	-668.20	6,367.23	0.00	0.00	0.00
18,800.00	90.16	179.74	11,810.88	-6,437.78	-667.75	6,467.00	0.00	0.00	0.00
18,900.00	90.16	179.74	11,810.60	-6,537.78	-667.29	6,566.77	0.00	0.00	0.00
19,000.00	90.16	179.74	11,810.31	-6,637.78	-666.83	6,666.55	0.00	0.00	0.00
19,100.00	90.16	179.74	11,810.02	-6,737.78	-666.37	6,766.32	0.00	0.00	0.00
19,200.00	90.16	179.74	11,809.74	-6,837.78	-665.92	6,866.09	0.00	0.00	0.00
19,300.00	90.16	179.74	11,809.45	-6,937.77	-665.46	6,965.86	0.00	0.00	0.00
19,400.00	90.16	179.74	11,809.16	-7,037.77	-665.00	7,065.64	0.00	0.00	0.00
19,500.00	90.16	179.74	11,808.88	-7,137.77	-664.54	7,165.41	0.00	0.00	0.00
19,600.00	90.16	179.74	11,808.59	-7,237.77	-664.09	7,265.18	0.00	0.00	0.00
19,700.00	90.16	179.74	11,808.30	-7,337.77	-663.63	7,364.95	0.00	0.00	0.00
19,800.00	90.16	179.74	11,808.01	-7,437.77	-663.17	7,464.73	0.00	0.00	0.00
19,900.00	90.16	179.74	11,807.73	-7,537.77	-662.71	7,564.50	0.00	0.00	0.00
20,000.00	90.16	179.74	11,807.44	-7,637.76	-662.26	7,664.27	0.00	0.00	0.00
20,100.00	90.16	179.74	11,807.15	-7,737.76	-661.80	7,764.05	0.00	0.00	0.00
20,200.00	90.16	179.74	11,806.87	-7,837.76	-661.34	7,863.82	0.00	0.00	0.00
20,300.00	90.16	179.74	11,806.58	-7,937.76	-660.89	7,963.59	0.00	0.00	0.00
20,400.00	90.16	179.74	11,806.29	-8,037.76	-660.43	8,063.36	0.00	0.00	0.00
20,500.00	90.16	179.74	11,806.00	-8,137.76	-659.97	8,163.14	0.00	0.00	0.00
20,600.00	90.16	179.74	11,805.72	-8,237.76	-659.51	8,262.91	0.00	0.00	0.00
20,700.00	90.16	179.74	11,805.43	-8,337.75	-659.06	8,362.68	0.00	0.00	0.00
20,800.00	90.16	179.74	11,805.14	-8,437.75	-658.60	8,462.45	0.00	0.00	0.00
20,900.00	90.16	179.74	11,804.86	-8,537.75	-658.14	8,562.23	0.00	0.00	0.00
21,000.00	90.16	179.74	11,804.57	-8,637.75	-657.68	8,662.00	0.00	0.00	0.00

Oxy Planning Report

Database	HOPSPP	Local Co-ordinate Reference	Well PLATINUM MDP1 34-3 FED COM 171H
Company	ENGINEERING DESIGNS	TVD Reference	RKB=26.5' @ 3449.70ft
Project	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference	RKB=26.5' @ 3449.70ft
Site	PLATINUM MDP1 34-3 FED COM	North Reference	Grid
Well	PLATINUM MDP1 34-3 FED COM 171H	Survey Calculation Method	Minimum Curvature
Wellbore	WB00		
Design	Permitting Plan		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
21,100.00	90.16	179.74	11,804.28	-8,737.75	-657.23	8,761.77	0.00	0.00	0.00	
21,200.00	90.16	179.74	11,803.99	-8,837.75	-656.77	8,861.54	0.00	0.00	0.00	
21,300.00	90.16	179.74	11,803.71	-8,937.75	-656.31	8,961.32	0.00	0.00	0.00	
21,400.00	90.16	179.74	11,803.42	-9,037.74	-655.85	9,061.09	0.00	0.00	0.00	
21,500.00	90.16	179.74	11,803.13	-9,137.74	-655.40	9,160.86	0.00	0.00	0.00	
21,600.00	90.16	179.74	11,802.85	-9,237.74	-654.94	9,260.64	0.00	0.00	0.00	
21,700.00	90.16	179.74	11,802.56	-9,337.74	-654.48	9,360.41	0.00	0.00	0.00	
21,800.00	90.16	179.74	11,802.27	-9,437.74	-654.03	9,460.18	0.00	0.00	0.00	
21,900.00	90.16	179.74	11,801.99	-9,537.74	-653.57	9,559.95	0.00	0.00	0.00	
22,000.00	90.16	179.74	11,801.70	-9,637.74	-653.11	9,659.73	0.00	0.00	0.00	
22,100.00	90.16	179.74	11,801.41	-9,737.73	-652.65	9,759.50	0.00	0.00	0.00	
22,200.00	90.16	179.74	11,801.12	-9,837.73	-652.20	9,859.27	0.00	0.00	0.00	
22,300.00	90.16	179.74	11,800.84	-9,937.73	-651.74	9,959.04	0.00	0.00	0.00	
22,400.00	90.16	179.74	11,800.55	-10,037.73	-651.28	10,058.82	0.00	0.00	0.00	
22,500.00	90.16	179.74	11,800.26	-10,137.73	-650.82	10,158.59	0.00	0.00	0.00	
22,600.00	90.16	179.74	11,799.98	-10,237.73	-650.37	10,258.36	0.00	0.00	0.00	
22,695.86	90.16	179.74	11,799.70	-10,333.58	-649.93	10,354.00	0.00	0.00	0.00	

Design Targets										
Target Name	hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PBHL (Platinum MDP1 - plan hits target center - Point		0.00	0.00	11,799.70	-10,333.58	-649.93	451,200.94	714,533.08	32° 14' 21.068361 N	103° 46' 23.380295
FTP (Platinum MDP1 - plan hits target center - Point		0.00	0.00	11,829.70	116.02	-697.72	461,649.93	714,485.29	32° 16' 4.469271 N	103° 46' 23.301910

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
4,765.00	4,765.00	0.00	0.00	Build 2.00°/100'	
5,264.98	5,262.44	32.06	-29.42	Hold 10.00° Tangent	
10,512.40	10,430.15	703.40	-645.48	Turn 2.00°/100'	
11,444.46	11,356.24	681.91	-700.31	KOP, Build 10.00°/100'	
12,246.11	11,829.70	116.02	-697.72	Landing Point	
22,695.86	11,799.70	-10,333.58	-649.93	TD at 22695.86' MD	

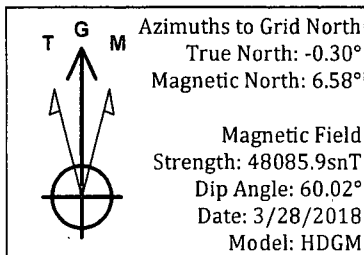


Project: PRD NM DIRECTIONAL PLANS (NAD 1983)
 Site: PLATINUM MDP1 34-3 FED COM
 Well: PLATINUM MDP1 34-3 FED COM 171H
 Wellbore: WB00
 Design: Permitting Plan

PROJECT DETAILS: NM DIRECTIONAL PLANS (NAD 1983)

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

System Datum: Mean Sea Level

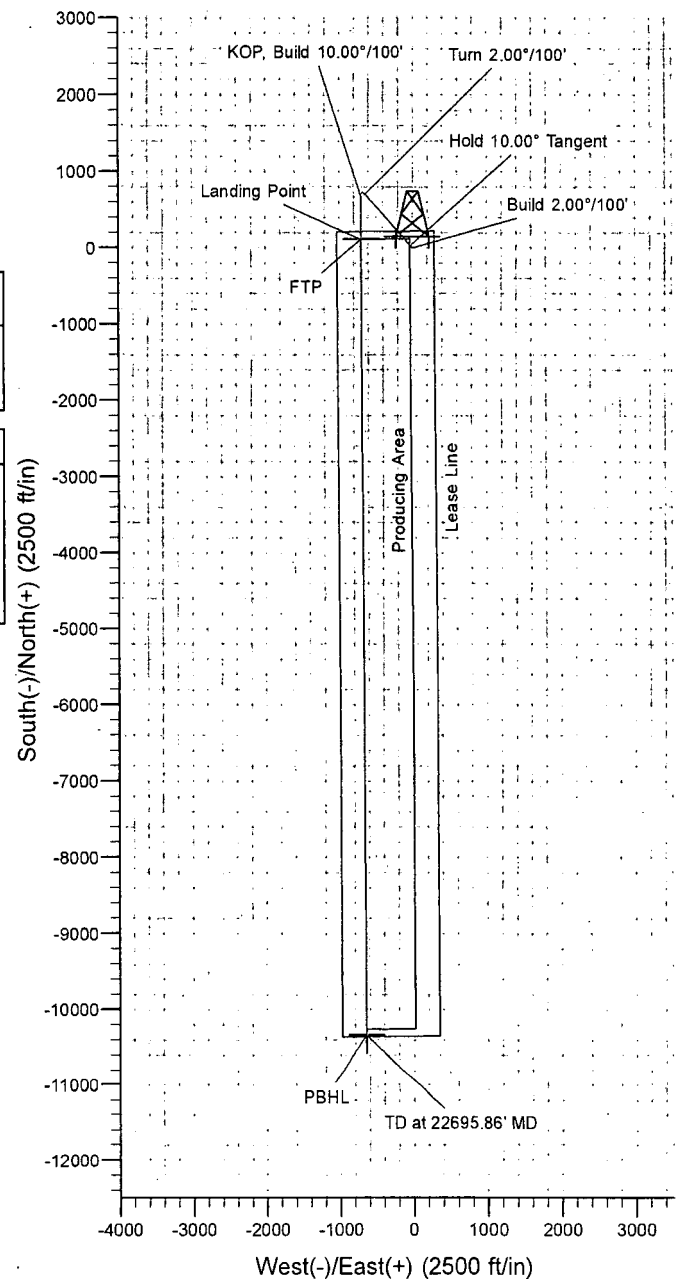
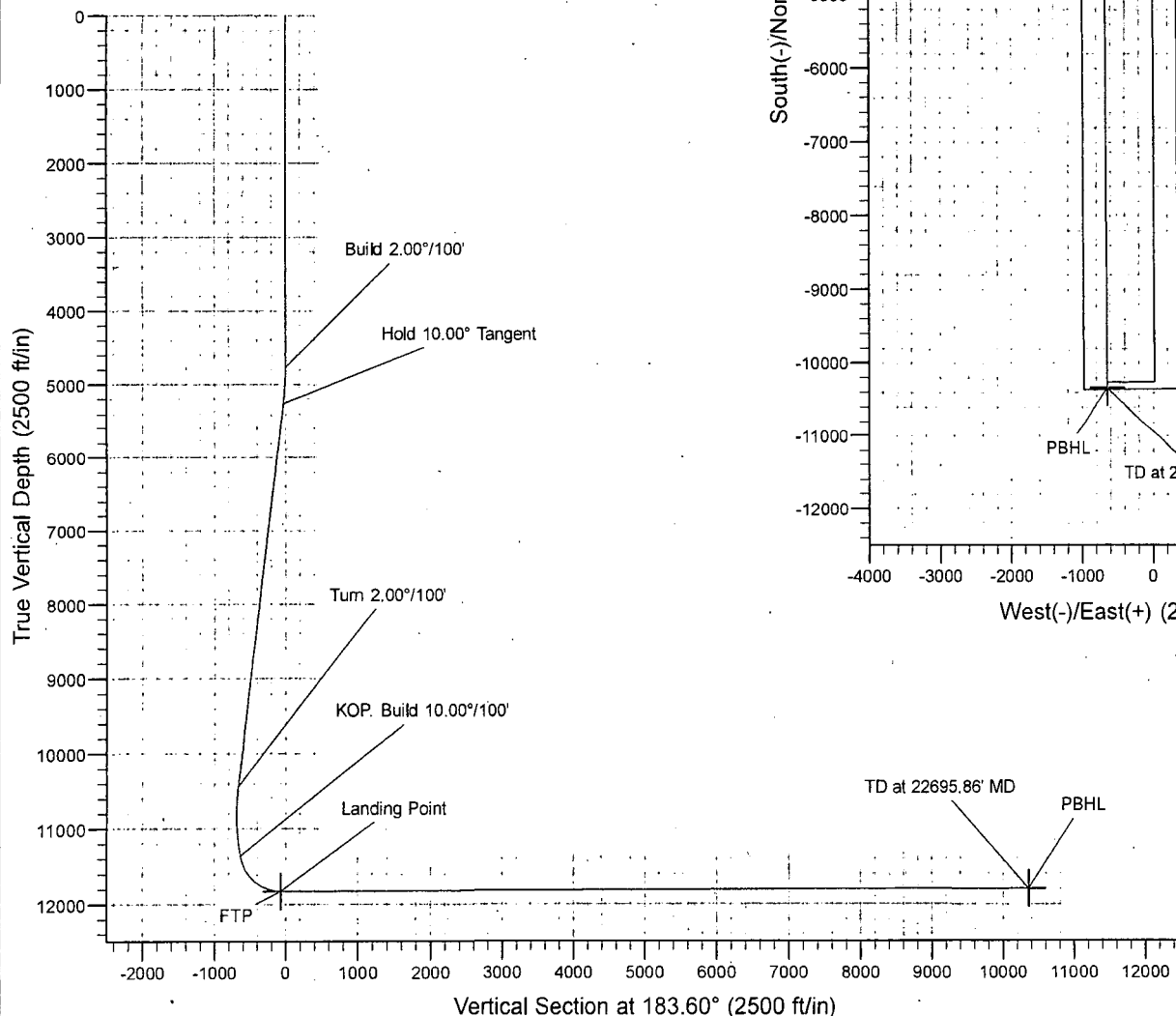


WELL DETAILS: PLATINUM MDP1 34-3 FED COM 171H

+N-S	+E-W	Ground Level	Easting	Latitude	Longitude
0.00	0.00	3423.20	715182.97	32° 16' 3.285181 N	103° 46' 15.183263 W

SECTION DETAILS

MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	Vsect	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4765.00	0.00	0.00	4765.00	0.00	0.00	0.00	0.00	0.00	Build 2.00°/100'
5264.98	10.00	317.46	5262.44	32.06	-29.42	2.00	317.46	-30.15	Hold 10.00° Tangent
10512.40	10.00	317.46	10430.15	703.40	-645.48	0.00	0.00	-661.50	Turn 2.00°/100'
11444.46	10.00	179.74	11356.24	681.91	-700.31	2.00	-158.56	-636.61	KOP, Build 10.00°/100'
12246.11	90.16	179.74	11629.70	116.02	-697.72	10.00	0.00	-71.99	Landing Point
22695.86	90.16	179.74	11799.70	-10333.58	-649.93	0.00	0.00	10354.00	TD at 22695.86' MD



TD at 22695.86' MD

PBHL

Oxy USA Inc. - Platinum MDP1 34-3 Federal Com 171H

1. Geologic Formations

TVD of target	11829'	Pilot Hole Depth	N/A
MD at TD:	22695'	Deepest Expected fresh water:	532'

Delaware Basin

Formation	TVD - RKB	Expected Fluids
Rustler	532	
Salado	878	Brine
Castile	2,808	Brine
Lamar/Delaware	4,308	Brine
Bell Canyon	4,334	Oil/Gas
Cherry Canyon	5,228	Oil/Gas
Brushy Canyon	6,488	Losses
Bone Spring	8,152	Oil/Gas
1st Bone Spring	9,216	Oil/Gas
2nd Bone Spring	9,826	Oil/Gas
3rd Bone Spring	11,015	Oil/Gas
Wolfcamp	11,477	Oil/Gas

*H2S, water flows, loss of circulation, abnormal pressures, etc.

2. Casing Program

Hole Size (in)	Casing Interval		Csg. Size (in)	Weight (lbs)	Grade	Conn.	SF		Buoyant	
	From (ft)	To (ft)					Collapse	Burst	Body SF Tension	Joint SF Tension
17.5	0	582	13.375	54.5	J-55	BTC	1.125	1.2	1.4	1.4
12.25	0	4358	9.625	43.5	L-80	BTC	1.125	1.2	1.4	1.4
8.5	0	11344	7.625	26.4	L-80 HC	SF (0 ft to 4000 ft) FJ (4000 ft to 11344 ft)	1.125	1.2	1.4	1.4
6.75	0	22695	5.5	20	P-110	DQX	1.125	1.2	1.4	1.4
SF Values will meet or Exceed										

All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

*Oxy requests the option to set casing shallower yet still below the salts if losses or hole conditions require this. Cement volumes may be adjusted if casing is set shallower and a DV tool may be run in case hole conditions merit pumping a second stage cement job to comply with permitted top of cement. If cement circulated to surface during first stage, we will drop a cancelation cone and not pump the second stage.

*Oxy requests the option to run production casing with DQX, SF TORQ, and/or DQW TORQ connections to accommodate hole conditions or drilling operations.

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Annular Clearance Variance Request

As per the agreement reached in the Oxy/BLM face-to-face meeting on Feb 22, 2018, Oxy requests permission to allow deviation from the 0.422" annular clearance requirement from Onshore Order #2 under the following conditions:

1. Annular clearance to meet or exceed 0.422" between intermediate casing ID and production casing coupling only on the first 500' overlap between both casings.
2. Annular clearance less than 0.422" is acceptable for the curve and lateral portions of the production open hole section.

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Does casing meet API specifications? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	Y
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?	
Is well located in R-111-P and SOPA?	Y
If yes, are the first three strings cemented to surface?	Y
Is 2 nd string set 100' to 600' below the base of salt?	Y
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

3. Cementing Program

Casing String	# Sks	Wt. (lb/gal)	Yld (ft ³ /sack)	H ₂ O (gal/sk)	500# Comp. Strength (hours)	Slurry Description
Surface (Lead)	N/A	N/A	N/A	N/A	N/A	N/A
Surface (Tail)	619	14.8	1.33	6.365	5:26	Class C Cement, Accelerator
Intermediate (Lead)	931	12.9	1.88	10.130	14:22	Pozzolan Cement, Retarder
Intermediate (Tail)	155	14.8	1.33	6.370	12:45	Class C Cement, Accelerator
Intermediate II 1st Stage (Lead)	N/A	N/A	N/A	N/A	N/A	N/A
Intermediate II 1st Stage (Tail)	226	13.2	1.65	8.640	11:54	Class H Cement, Retarder, Dispersant, Salt
Intermediate II 2nd Stage (Tail Slurry) to be pumped as Bradenhead Squeeze from surface, down the Intermediate annulus						
Intermediate II 2nd Stage (Lead)	N/A	N/A	N/A	N/A	N/A	N/A
Intermediate II 2nd Stage (Tail)	355	12.9	1.92	10.410	23:10	Class C Cement, Accelerator
Production (Lead)	N/A	N/A	N/A	N/A	N/A	N/A
Production (Tail)	869	13.2	1.38	6.686	3:49	Class H Cement, Retarder, Dispersant, Salt

Casing String	Top (ft)	Bottom (ft)	% Excess
Surface (Lead)	N/A	N/A	N/A
Surface (Tail)	0	582	100%
Intermediate (Lead)	0	3858	50%
Intermediate (Tail)	3858	4358	20%
Intermediate II 1st Stage (Lead)	N/A	N/A	N/A
Intermediate II 1st Stage (Tail)	6738	11344	5%
Intermediate II 2nd Stage (Lead)	N/A	N/A	N/A
Intermediate II 2nd Stage (Tail)	0	6738	25%
Production (Lead)	N/A	N/A	N/A
Production (Tail)	10844	22695	20%

Offline Cementing

Oxy requests a variance to cement the 9.625" and/or 7.625" intermediate casing strings offline in accordance to the approved variance, EC Tran 461365.

The summarized operational sequence will be as follows:

1. Run casing as per normal operations. While running casing, conduct negative pressure test and confirm integrity of the float equipment (float collar and shoe).
2. Land casing.
3. Fill pipe with kill weight fluid, and confirm well is static.
 - a. If well is not static notify BLM and kill well.
 - b. Once well is static notify BLM with intent to proceed with nipple down and offline cementing.
4. Set and pressure test annular packoff.
5. After confirmation of both annular barriers and internal barriers, nipple down BOP and install cap flange. If any barrier fails to test, the BOP stack will not be nipped down until after the cement job is completed.

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6. Skid rig to next well on pad.
7. Confirm well is static before removing cap flange.
8. If well is not static notify BLM and kill well prior to cementing or nipping up for further remediation.
9. Install offline cement tool.
10. Rig up cement equipment.
 - a. Notify BLM prior to cement job.
11. Perform cement job.
12. Confirm well is static and floats are holding after cement job.
13. Remove cement equipment, offline cement tools and install night cap with pressure gauge for monitoring.

4. Pressure Control Equipment

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Type	✓	Tested to:
12.25" Hole	13-5/8"	3M	Annular	✓	70% of working pressure
		3M	Blind Ram	✓	250 psi / 3000 psi
			Pipe Ram		
			Double Ram	✓	
			Other*		
8.5" Hole	13-5/8"	5M	Annular	✓	70% of working pressure
		5M	Blind Ram	✓	250 psi / 5000 psi
			Pipe Ram		
			Double Ram	✓	
			Other*		
6.75" Hole	13-5/8"	5M	Annular	✓	70% of working pressure
		10M	Blind Ram	✓	250 psi / 10000 psi
			Pipe Ram		
			Double Ram	✓	
			Other*		

*Specify if additional ram is utilized.

Per BLM's Memorandum No. NM-2017-008: *Decision and Rationale for a Variance Allowing the Use of a 5M Annular Preventer with a 10M BOP Stack*, Oxy requests to employ a 5M annular with a 10M BOPE stack in the pilot and lateral sections of the well and will ensure that two barriers to flow are maintained at all times. Please see attached Well Control Plan.

Oxy will utilize a 5M annular with a 10M BOPE stack. The BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

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Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold. See attached schematics.

	Formation integrity test will be performed per Onshore Order #2. On Exploratory wells or 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. Will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.i.
	A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart.
Y	Are anchors required by manufacturer?
	A multibowl or a unionized multibowl wellhead system will be employed. The wellhead and connection to the BOPE will meet all API 6A requirements. The BOP will be tested per Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested. We will test the flange connection of the wellhead with a test port that is directly in the flange. We are proposing that we will run the wellhead through the rotary prior to cementing surface casing as discussed with the BLM on October 8, 2015. See attached schematics.

BOP Break Testing Request

As per the agreement reached in the Oxy/BLM face-to-face meeting on Feb 22, 2018, Oxy requests permission to allow BOP Break Testing under the following conditions:

- After a full BOP test is conducted on the first well on the pad.
- When skidding to drill an intermediate section that does not penetrate into the Wolfcamp.
- Full BOP test will be required prior to drilling any production hole.

5. Mud Program

Depth		Type	Weight (ppg)	Viscosity	Water Loss
From (ft)	To (ft)				
0	582	Water-Based Mud	8.6-8.8	40-60	N/C
582	4358	Saturated Brine-Based Mud	9.8-10.0	35-45	N/C
4358	11344	Water-Based or Oil-Based Mud	8.0-9.6	38-50	N/C
11344	22695	Water-Based or Oil-Based Mud	9.5-12.0	38-50	N/C

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times. The following is a general list of products: Barite, Bentonite, Gypsum, Lime, Soda Ash, Caustic Soda, Nut Plug, Cedar Fiber, Cotton Seed Hulls, Drilling Paper, Salt Water Clay, CACL2. Oxy will use a closed mud system.

What will be used to monitor the loss or gain of fluid?	PVT/MD Totco/Visual Monitoring
---------------------------------------------------------	--------------------------------

6. Logging and Testing Procedures

Logging, Coring and Testing		
Yes	Will run GR from TD to surface (horizontal well – vertical portion of hole). Stated logs run will be in the Completion Report and submitted to the BLM.	
No	Logs are planned based on well control or offset log information.	
No	Drill stem test? If yes, explain	
No	Coring? If yes, explain	
Additional logs planned		Interval
No	Resistivity	
No	Density	
No	CBL	
Yes	Mud log	ICP - TD
No	PEX	

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	7382 psi
Abnormal Temperature	No
BH Temperature at deepest TVD	175°F

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Pump high viscosity sweeps as needed for hole cleaning. The mud system will be monitored visually/manually as well as with an electronic PVT. The necessary mud products for additional weight and fluid loss control will be on location at all times. Appropriately weighted mud will be used to isolate potential gas, oil, and water zones until such time as casing can be cemented into place for zonal isolation.

Hydrogen Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.	
N	H2S is present
Y	H2S Plan attached

8. Other facets of operation

	Yes/No
Will the well be drilled with a walking/skidding operation? If yes, describe. <ul style="list-style-type: none"> We plan to drill the two well pad in batch by section: all surface sections, intermediate sections and production sections. The wellhead will be secured with a night cap whenever the rig is not over the well. 	Yes
Will more than one drilling rig be used for drilling operations? If yes, describe. <ul style="list-style-type: none"> Oxy requests the option to contract a Surface Rig to drill, set surface casing, and cement for this well. If the timing between rigs is such that Oxy would not be able to preset surface, the Primary Rig will MIRU and drill the well in its entirety per the APD. Please see the attached document for information on the spudder rig. 	Yes

Total estimated cuttings volume: 1716.3 bbls.

Attachments

- ☒ Directional Plan
- ☒ H2S Contingency Plan
- ☒ Flex III Attachments
- ☒ Spudder Rig Attachment
- ☒ Premium Connection Specs

9. Company Personnel

Name	Title	Office Phone	Mobile Phone
Kaitlyn Daniels	Drilling Engineer	713-497-2104	512-424-9870
Margaret Giltner	Drilling Engineer Supervisor	713-366-5026	210-683-8480
Simon Benavides	Drilling Superintendent	713-522-8652	281-684-6897
Diego Tellez	Drilling Manager	713-350-4602	713-303-4932

Oxy Well Control Plan

A. Component and Preventer Compatibility Table

The table below, which covers the drilling and casing of the >5M MASP portion of the well, outlines the tubulars and the compatible preventers in use. This table, combined with the mud program, documents that two barriers to flow can be maintained at all times, independent of the rating of the annular preventer.

Pilot hole and Lateral sections, 10M requirement

Component	OD	Preventer	RWP
Drillpipe	4-1/2"-5"	Lower 3-1/2 - 5-1/2" VBR Upper 3-1/2 - 5-1/2" VBR	10M
HWDP	4-1/2"-5"	Lower 3-1/2 - 5-1/2" VBR Upper 3-1/2 - 5-1/2" VBR	10M
Drill collars and MWD tools	4-3/4" - 5-1/2"	Lower 3-1/2 - 5-1/2" VBR Upper 3-1/2 - 5-1/2" VBR	10M
Mud Motor	4-3/4"	Lower 3-1/2 - 5-1/2" VBR Upper 3-1/2 - 5-1/2" VBR	10M
Production casing	5-1/2"	Lower 3-1/2 - 5-1/2" VBR Upper 3-1/2 - 5-1/2" VBR	10M
ALL	0" - 13-5/8"	Annular	5M
Open-hole	6-3/4"	Blind Rams	10M

VBR = Variable Bore Ram. Compatible range listed in chart.

HWDP = Heavy Weight Drill Pipe

MWD = Measurement While Drilling

B. Well Control Procedures

Well control procedures are specific to the rig equipment and the operation at the time the kick occurs. Below are the minimal high-level tasks prescribed to assure a proper shut-in while drilling, tripping, running casing, pipe out of the hole (open hole), and moving the Bottom Hole Assembly (BHA) through the Blowout Preventers (BOP). The pressure at which control is swapped from the annular to another compatible ram will occur when the anticipated pressure is approaching or envisioned to exceed 70% of the 5M annular Rated Working Pressure (RWP) or 3500 PSI.

General Procedure While Drilling

1. Sound alarm (alert crew)
2. Space out drill string
3. Shut down pumps (stop pumps and rotary)
4. Shut-in Well (uppermost applicable BOP, typically annular preventer first. The Hydraulic Control Remote (HCR) valve and choke will already be in the closed position).
5. Confirm shut-in
6. Notify tool pusher/company representative

7. Read and record the following:
 - a. SIDPP and SICP
 - b. Pit gain
 - c. Time
8. Regroup and identify forward plan
9. If pressure has built or expected to reach 70% of the annular RWP during kill operations, crew will reconfirm spacing and swap to the upper pipe ram

General Procedure While Tripping

1. Sound alarm (alert crew)
2. Stab full opening safety valve and close
3. Space out drill string
4. Shut-in (uppermost applicable BOP, typically annular preventer first. The HCR and choke will already be in the closed position)
5. Confirm shut-in
6. Notify tool pusher/company representative
7. Read and record the following
 - a. SIDPP and SICP
 - b. Pit gain
 - c. Time
 - d. Regroup and identify forward plan
 - e. If pressure has built or is anticipated during the kill to reach the RWP of the annular preventer, confirm spacing and swap to the upper pipe ram

General Procedure While Running Casing

1. Sound alarm (alert crew)
2. Stab crossover and full opening safety valve and close
3. Space out string
4. Shut-in (uppermost applicable BOP, typically annular preventer first. The HCR and choke will already be in the closed position).
5. Confirm shut-in
6. Notify tool pusher/company representative
7. Read and record the following:
 - a. SIDPP and SICP
 - b. Pit gain
 - c. Time
 - d. Regroup and identify forward plan.
 - e. If pressure has built or is anticipated during the kill to reach the RWP of the annular preventer, confirm spacing and swap to compatible pipe ram.

General Procedure With No Pipe In Hole (Open Hole)

1. Sound alarm (alert crew)
2. Shut-in with blind rams or BSR. (The HCR and choke will already be in the 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. Regroup and identify forward plan

General Procedures While Pulling BHA thru Stack

1. PRIOR to pulling last joint of drill pipe thru the stack.
 - a. Perform flow check, if flowing:
 - b. Sound alarm (alert crew)
 - c. Stab full opening safety valve and close
 - d. Space out drill string with tool joint just beneath the upper pipe ram
 - e. Shut-in using upper pipe ram. (The HCR and choke will already be in the closed position)
 - f. Confirm shut-in
 - g. Notify tool pusher/company representative
 - h. Read and record the following:
 - i. SIDPP and SICP
 - ii. Pit gain
 - iii. Time
 - iv. Regroup and identify forward plan
2. With BHA in the stack and compatible ram preventer and pipe combo immediately available.
 - a. Sound alarm (alert crew)
 - b. Stab crossover and full opening safety valve and close
 - c. Space out drill string with upset just beneath the compatible pipe ram
 - d. Shut-in using compatible pipe ram. (The HCR and choke will already be in the closed position.)
 - e. Confirm shut-in
 - f. Notify tool pusher/company representative
 - g. Read and record the following:
 - i. SIDPP and SICP
 - ii. Pit gain
 - iii. Time
 - iv. Regroup and identify forward plan
3. With BHA in the stack and NO compatible ram preventer and pipe combo immediately available.
 - a. Sound alarm (alert crew)
 - b. If possible to pick up high enough, pull string clear of the stack and follow "Open Hole" scenario
 - c. If impossible to pick up high enough to pull the string clear of the stack
 - d. Stab crossover, make up one joint/stand of drill pipe, and full opening safety valve and close
 - e. Space out drill string with tool joint just beneath the upper pipe ram

- f. Shut-in using upper pipe ram. (The HCR and choke will already be in the closed position)
- g. Confirm shut-in
- h. Notify tool pusher/company representative
- i. Read and record the following:
 - i. SIDPP and SICP
 - ii. Pit gain
 - iii. Time
- j. Regroup and identify forward plan