Form 3160-5 (June 2015)

UNITED STATES

DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT 5. Lease Serial No. NMNM43744

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

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use th abandoned we	,	6. If Indian, Allottee or Tribe Name					
SUBMIT IN		7. If Unit or CA/Agr	eement,	Name and/or No.			
Type of Well		8. Well Name and No. PLATINUM MDP1 34-3 FEDERAL COM 1					
Name of Operator OXY USA INCORPORATED		 API Well No. 30-015-45231- 	-00-X1	·-			
3a. Address 5 GREENWAY PLAZA SUITE HOUSTON, TX 77046-0521	E 110	3b. Phone No Ph: 713-35	o. (include area code) 50-4997		10. Field and Pool or PURPLE SAG		atory Area LFCAMP (GAS)
4. Location of Well (Footage, Sec., T	., R., M., or Survey Description)	=-		11. County or Parish	, State	
Sec 34 T23S R31E NWNW 2 32.267578 N Lat, 103.771614		,			EDDY COUNT	Y, NM	
12. CHECK THE AI	PPROPRIATE BOX(ES)	TO INDICA	TE NATURE O	F NOTICE, I	REPORT, OR OT	HER I	DATA
TYPE OF SUBMISSION			TYPE O	F ACTION			
■ Notice of Intent	☐ Acidize	☐ Dee	pen	☐ Production	n (Stårt/Resume)		Water Shut-Off
	☐ Alter Casing	□ Нус	raulic Fracturing	☐ Reclamate	ion -	' 🗖	Well Integrity
☐ Subsequent Report	☐ Casing Repair	□ Nev	Construction	☐ Recomple	ete		☑ Other
☐ Final Abandonment Notice	Change Plans		☐ Plug and Abandon ☐ Temporar				Change to Original A
•	☐ Convert to Injection	☐ Plug	g Back	☐ Water Di	sposal		
determined that the site is ready for fit OXY USA Inc. respectfully req 1. BHL is moving 490' west to 2. Landing zone change - goin 3. Cement Design (3-string to 4. Casing Design (2nd Int Hol 5. Offline Cementing for int str 6. Well Control Plan Please find updated document Surface Hole Location Sundry	quests to amend the appro 0 770' FWL ng from Purple Sage Wolfd 4-string) le Size Change and 1st In ings tation for your use.	camp Pool to t csg weight	Cotton Draw Bo change)	one Spring Po			
			•			RECE	
14. I hereby certify that the foregoing is	Electronic Submission #4	INCORPORA	TED, sent to the	Carlsbad		JL 2	3 2010
Name (Printed/Typed) SARAH E	CHAPMAN		Title REGUL	ATORY SPEC	CIALIS DISTRICT	II.AH	TESIAO C D
Signature (Electronic S	ubmission)		Date 07/10/20	019			
	THIS SPACE FO	R FEDERA	L OR STATE (OFFICE US	:		
Approved By NDUNGU KAMAU			TitlePETROLE!	UM ENGINEE	· :R		Date 07/15/2019
Conditions of approval, if any, are attached certify that the applicant holds legal or equivalent would entitle the applicant to conduction	itable title to those rights in the		Office Carlsbad				
Title 18 U.S.C. Section 1001 and Title 43 U States any false, fictitious or fraudulent s	U.S.C. Section 1212, make it a catatements or representations as	crime for any pe to any matter wi	rson knowingly and thin its jurisdiction.	willfully to make	to any department or	agency	of the United

PW 8-22-19

Additional data for EC transaction #472758 that would not fit on the form

32. Additional remarks, continued

Thank you.

Revisions to Operator-Submitted EC Data for Sundry Notice #472758

Operator Submitted

BLM Revised (AFMSS)

Sundry Type:

APDCH

NOI

Lease:

NMNM43744

APDCH NOI

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: County: NM

EDDY COUNTY

NM EDDY

Field/Pool:

PURPLE SAGE WOLFCAMP

PURPLE SAGE-WOLFCAMP (GAS)

Well/Facility:

PLATINUM MDP1 34-3 FEERAL COM 172H Sec 34 T23S R31E NENE 220FNL 1062FWL 32.267579 N Lat, 103.770771 W Lon

PLATINUM MDP1 34-3 FEDERAL COM 172H Sec 34 T23S R31E NWNW 220FNL 802FWL 32.267578 N Lat, 103.771614 W Lon

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: OXY USA INCORPORATED

LEASE NO.: NMNM43744

WELL NAME & NO.: | 172H:PLATINUM MDP1 34-3 FDC

SURFACE HOLE FOOTAGE: 220'/N & 1062'/W **BOTTOM HOLE FOOTAGE** 20'/S & 770'/E

LOCATION: | T-23S, R-31E, S34. NMPM

COUNTY: EDDY, NM

 \mathbf{COA}

H2S	← Yes	€ No	
Potash	None	Secretary	[♠] R-111-P
Cave/Karst Potential	• Low	Medium	← High
Variance	None	Flex Hose	Other
Wellhead	Conventional	^ Multibowl	Both
Other :	☐ 4 String Area	☐ Capitan Reef	□ WIPP
Other .	Fluid Filled	Cement Squeeze	Filot Hole
Special Requirements	□ Water Disposal	▽ COM	☐ 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 600 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 4355 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 CountyCall 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 easing 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.

NMK7152019

| <u>District |</u>
1625 N. Franch Dr., Hobba, NM 88240
1625 N. Franch Dr., Hobba, NM 88240
<u>Patter (375)</u> 393-6161 Fax: (375) 193-6770
<u>District II</u>
811 S. Fart St., Artesia, NM 88210
<u>Patter (375)</u> 748-1282 Fax: (375) 746-9720
<u>District III</u>
1600 Rio Brame Road, Artee, NM 87410
<u>Patter (375)</u> 334-6178 Fax: (305) 334-6170
<u>District IV</u>
1220 S. St. Francis Dr., Sants Fc., NM 87503
<u>Patter (375)</u> 276-3460 Fax: (307) 476-3461

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 Pool Code 30-015-45231 brow Bone Sing 1536 ottan Property Code Property Name Well Number "34-3" FEDERAL COM 322245 PLATINUM MDP1 172H OGRID No. Operator Name Elevation 6696 OXY USA INC. 3423.7 Surface Location UL or lot co. Section Township Lot Ida Feet from the North/South line Feet from the East/West line County 23 SOUTH D 34 31 EAST, N.M.P.M. 220 NORTH 1062 WEST EDDY Bottom Hole Location If Different From Surface UL or lot no. Section Township Lot Idn Feet from the North-South line Feet from the East/West line County 24 SOUTH 31 EAST, N.M.P.M. 20 SOUTH WEST 770 **EDDY** Dedicated Acres Joint or Infill Consolidation Code Order No. 640 No allowable will be assisted to this completion until all interests have been consolidated or a non-standard unit has been approved by the division. 33 770 34 35 OPERATOR CERTIFICATION SURFACE LOCATION 770 NEW MEXICO EAST NAD 1983 Y=461534.12 US FT X=715217.97 US FT LAI.: N 32.2675793' ONG.: W 103.7707710 1062 AZ = 299°53'03' 337.84' KICK OFF POINT NEW MEXICO EAST NAD 1983 Y=461702.45 US FT X=714925.06 US FT 777 N 32.2680462 W 103.7717158 3 FIRST TAKE POINT NEW MEXICO EAST NAD 1983 Y=461652.45 US FT X=714925.28 US FT LAT: N 32.2679087 LONG: W 103.7717159 7 10498. 33 34 34 35 15 1, 55.621 SURVEYOR CERTIFICATION ncheda Ener Cactual surveys and that the 12 15079 LAST TAKE POINT RID NEW MEXICO EAST NAD 1983 Y=451283.85 US FI X=714972.71 US FI Signature and Stock SSIONA LAT.: N 32.2394072 LONG.: W 103.7717379 BOTTOM HOLE LOCATION NEW MEXICO EAST NAD 1983 Y=451203.85 US FT X=714973.07 US FT LAT.: N 32.2391873 LONG: W 103.771738 WO# 180129WL-1 (Rev. 6) (KA)

RW 8-22-19

Intent As Drilled						٠
API# 30-015-45231					•	
Operator Name:		Property Name	::			Well Number
DX4 USA Inc.		Platinum MD	P1 34-3	Federal	Com	172-H
•						
Kick Off Point (KOP)		4				
UL Section Township Range Lot 34 235 316	Feet 50	From N/S	Feet 770	From E/W	County	
Latitude 32.2686462	Longitu		?		NAD NAI))
First Take Point (FTP)	ų.					
UL Section Township Range Lot	Feet	From N/S	Feet	From E/W	County	
34 235 31E Latitude	Longitu	- North	770	west	NAD	,
32.2679087	-103	. 1717/59			NADS	
Last Take Point (LTP)						
UL Section Township Range Lot 3 16	Feet [00	From N/S Feet South 770	I	1	DDY	
Latitude 32. 2394072	Longitu			NAD	IJ	
132.2399012	1-103	. 7717379		l N	ADE3	
Is this well the defining well for the Horiz	ontal Sp	pacing Unit?		•		
•						
Is this well an infill well?		•				
		•				
If infill is yes please provide API if availabl Spacing Unit.	e, Oper	ator Name and w	ell number	for Definin	g well for	Horizontal
API#						
Operator Name:		Property Name:				Well Number
						KZ 06/29/2018

1. Geologic Formations

TVD of target	11,220	Pilot Hole Depth	N/A
MD at TD:	21,200	Deepest Expected fresh water:	550'

Delaware Basin

Formation	TVD - RKB	Expected Fluids
Rustler	542	
Salado	878	Salt
Castile	2,814	Salt
Lamar/Delaware	4,304	Oil/Gas/Brine
Bell Canyon	4,332	Oil/Gas/Brine
Cherry Canyon	5,220	Oil/Gas/Brine
Brushy Canyon	6,481	Losses
Bone Spring	8,147	Oil/Gas
1st Bone Spring	9,210	Oil/Gas
2nd Bone Spring	9,813	Oil/Gas
3rd Bone Spring	11,015	Oil/Gas

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

2. Casing Program

Höle/Siže (in)	Ca	ing Interval	Csg. Šizé	Weight	J. Vas		SF ₂	655	Body SF	Joint SF
Hole Size (III)	From (ft)	To (ft)	(in)	ৣ (lbs)	Grade	Conn.	Collapse	SF Burst	Tension	Tension
12.25	0	4400	9.625	40	HCL80	BTC	1.125	1.2	1.4	1.4
8.75	0	10620	7.625	26.4	HCL80	SF (0 ft to 6000 ft) FJ (6000 ft to TD)	1.125	1.2	1.4	1.4
6.75	0	21200	5.5	20	P-110	DQX	1.125	1.2	1.4	-1.4
							SF '	Values will	meet or Ex	ceed

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.

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				
CANADA	L NEET ELFA				
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.					
EXPORTS IN THE RESERVE AND A SECOND OF THE RESERVE AND A S	Security of the second of the				
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				
	BIT PERC				
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?					
nte en	Land ZIII				
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/gál)	Yld [*] (ft³/sack):	H ₂ 0 (gal/sk)	500# Comp. Strength (hours)	Slurry Description.
Intermediate (Lead)	762	12.9	1.88	10.130	14:22	Pozzolan Cement, Retarder
Intermediate (Tail)	99	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)	235	13.2	1.65	8.640	11:54	Class H Cement, Retarder, Dispersant, Salt
Intermediate II 2nd St	tage (Tail Slurry) to b	e pumped as Brac	lenhead Squeeze f	rom surface, dow	n the Intermedia	te annulus
Intermediate II 2nd Stage (Lead)	N/A	N/A	N/A	N/A	N/A	N/A
Intermediate II 2nd Stage (Tail)	358	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)	1003	13.2	1.38	. 6.686	3:49	Class H Cement, Retarder, Dispersant, Salt

Casing String	Top (ft)	Bottom (ft)	% Excess
Intermediate (Lead)	0	3900	50%
Intermediate (Tail)	3900	4400	20%
Intermediate II 1st Stage (Lead)	N/A	N/A	N/A
Intermediate II 1st Stage (Tail)	6680	10620	5%
Intermediate II 2nd Stage (Lead)	N/A	N/A .	N/A
Intermediate II 2nd Stage (Tail)	0	6680	25%
Production (Lead)	N/A	N/A	N/A
Production (Tail)	10120	21200	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 nippled down until after the cement job is completed.
- 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 nippling 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	Тур			Tested to:				
		3M	Annul	ar	✓	70% of working pressure				
12.25" Hole	13-5/8"		Blind R	am	✓					
12:25 Hole	13-3/6	3M	Pipe R	am		350: /3000:				
		21/1	Double 1	Ram	✓	250 psi / 3000 psi				
			Other*							
	13-5/8"	5M	Annular		✓	70% of working · pressure				
8.5" Hole		5M	Blind Ram		· 🗸	,				
8.5 11010			Pipe Ram			250: / 5000:				
		3101	Double l	ouble Ram		250 psi / 5000 psi				
		·	Other*							
		. 5M		Annular		70% of working pressure				
6.75" Hole	13-5/8"		Blind Ram		✓					
0.73 11016	·13 - 3/ 0	10M	Pipe Ram		Pipe Ram		Pipe Ram			250: / 10000:
		10M	Double Ram		√	250 psi / 10000 psi				
			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.

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 casing point is either shallower than the 3rd Bone Spring or 10,000 TVD.
- Full BOP test will be required prior to drilling any production hole.

5. Mud Program

Prom (ft)	oth To (ft)	Type	Weight (ppg)	Viscosity	Water Loss
615	4400	Saturated Brine-Based Mud	9.8-10.0	35-45	N/C
4400	10620	Water-Based or Oil-Based Mud	8.0-9.6	38-50	N/C
. 10620	21200	Water-Based or Oil-Based Mud	9.5-12	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

Logg	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 Comp	letion Report and submitted to the BI	LM.					
No	Logs are planned based	on well control or offset log informat	tion.					
No	Drill stem test? If yes, explain							
No	Coring? If yes, explain							
Addi	tional 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	7000 psi
Abnormal Temperature	No ·
BH Temperature at deepest TVD	170°

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.	Yes
• 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.	
Will more than one drilling rig be used for drilling operations? If yes, describe.	Yes
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.	

Total estimated cuttings volume: 1666 bbls.

Attachments

_x__ Well Control Plan

9. Company Personnel

<u>Name</u>	Title	Office Phone	Mobile Phone
Linsay Earle	Drilling Engineer	713-350-4921	832-596-5507
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

PRD NM DIRECTIONAL PLANS (NAD 1983) PLATINUM MDP1 34-3 FED COM PLATINUM MDP1 34-3 FED COM 172H

WB00

Plan: Permitting Plan

Standard Planning Report

21 May, 2019

Planning Report

Local Co-ordinate Reference Database Well PLATINUM MDP1 34-3 FED COM 172H HOPSPP Company **ENGINEERING DESIGNS** TVD Reference: RKB=26.5' @ 3450.20ft Project: PRD NM DIRECTIONAL PLANS (NAD 1983) MD Reference: RKB=26.5' @ 3450.20ft PLATINUM MDP1 34-3 FED COM Site: North Reference: PLATINUM MDP1 34-3 FED COM 172H Survey Calculation Method Well: Minimum Curvature Wellbore: WB00 Design: Permitting Plan

PRD NM DIRECTIONAL PLANS (NAD 1983) Project 🖟

Map System:

US State Plane 1983

Geo Datum: Map Zone:

North American Datum 1983 New Mexico Eastern Zone

System Datum:

Mean Sea Level

Using geodetic scale factor

PLATINUM MDP1 34-3 FED COM

Site Position:

From:

Мар

Northing: Easting:

461,352.44 usft 714,923.95 usft Latitude:

32° 16' 1.502765 N Longitude:

Position Uncertainty:

50.00 ft Slot Radius: .

13.200 in

Grid Convergence:

103° 46' 18.211063 W

0.30 °

Well PLATINUM MDP1 34-3 FED COM 172H

Well Position

+N/-S

181.69 ft 294.04 ft

Northing: Easting:

461,534.12 usft 715,217.97 usft

Latitude: Longitude:

32° 16' 3.285345 N 103° 46' 14.775615 W

+E/-W **Position Uncertainty** 2.00 ft 0.00 ft Wellhead Elevation: **Ground Level:** 3,423.70 ft

Wellbore WB00 Field Strength Declination **HDGM** 5/21/2019 6.78 47,954

Design Permitting Audit Notes:	g Plan	nemieratuse iliaanikus ile andere eerit iliaa ilia Nemieratuse iliaani tariha iliaanikus iliaa i	о на населения в принципент в принципент на населения в под населения в под населения в под населения в под на Ст. 1887 година — 1874 в 1888 година и 1888 година в 1		ender die Freier verscher der der besteht in der der der besteht im der der der der besteht in der der der der
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Оху

Planning Report

Database HOPSPP Company ENGINEE

ENGINEERING DESIGNS

PRD NM DIRECTIONAL PLANS (NAD 1983)

PRO NM DIRECTIONAL PLANS (NAD 19 Site: PLATINUM MDP1 34-3 FED COM PLATINUM MDP1 34-3 FED COM 172H Wellbore WB00

Permitting Plan

Local Co-ordinate Reference

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

Well PLATINUM MDP1 34-3 FED COM 172H

RKB=26.5' @ 3450.20ft RKB=26.5' @ 3450.20ft

Grid

Minimum Curvature

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Planning Report

Database: HOPSPP
Company: ENGINEERING DESIGNS
Project: PRD NM DIRECTIONAL PLANS (NAD 1983)
Site: PLATINUM MDP1 34-3 FED COM
Well PLATINUM MDP1 34-3 FED COM 172H
Wellbore: WB00
Permitting Plan

Local Co-ordinate Réference TVD Reference MD Reference MD Reference:
North Reference:

Survey Calculation Method

Well PLATINUM MDP1 34-3 FED COM 172H

RKB=26.5' @ 3450.20ft

RKB=26.5' @ 3450.20ft

Minimum Curvature

Design:	Permitting Plan		erance & assumence in Parker	- Elegan	是在理學的		· · · · · · · · · · · · · · · · · · ·		
Planned Survey	A Character Services	aras ou course.	BEAUTACHTEE WORK	SECTION SECTIO	CONTRACTOR OF THE PARTY OF THE	CALIFORNIA MANAGEMENT	andreas u. m. temperat	ALCONOMICON TAIN	ad marchaelichaureischen Christier.
riallied Sulvey	The grant of the	CARRELL CONTRACTOR	NAME OF THE	PERTANGET.	PART STORE		LEBINI AMELI	KIME SEVELE	Takak shall as Alex
。 第2000年		"在时候"					在在一个	· 大型 的 · 一	Political and the
Measured		16 Tar 18	Vertical	PART OF THE		Vertical 🐪	Dogleg	Build	Turn / o Mark
I Pare Depth	Inclination:	zimuth	Depth	+N/-S	«±É/-W	Section:	Rate	Rate	Rate
(11) 生命行动	建建筑 建建筑	TO SEE	* (ft) 🖟 😘	(ft)(*******	** (ft) \$ ***	、(ft) 二 多常	(°/100ft)/	(°/100ft) 🗫 🔩	(°/100ft) // (*/*)
THE PERSON NAMED IN STREET	Allego a was your	PARTE WAR							
5,345.00	0.00	0.00	5,345.00	0.00	0.00	0.00	0.00	0.00	0.00
5,400.00	1.10	338.92	5,400.00	0.49	-0.19	-0.49	2.00	2.00	0.00
5,500.00	3.10	338.92	5,499.92	3.91	-0.19 -1.51	-0. 4 9 -3.87	2.00	2.00	0.00
5,600.00	5.10	338.92	5,599.66	10.58	-1.51 -4.08				
5,700.00	7.10	338.92	5,699.09	20.50	-4.06 -7.90	-10.48 - 20.30	2.00	2.00	0.00
5,800.00	9.10	338.92	5,798.09				2.00	2.00	0.00
3,000.00	9.10	330.92	3,790.09	33.64	-12.97	-33.33	2.00	2.00	0.00
5,845.09	10.00	338.92	5,842.55	40.62	-15.66	-40.24	2.00	2.00	0.00
5,900.00	10.00	338.92	5,896.63	49.52	-19.09	-49.06	0.00	0.00	0.00
6,000.00	10.00	338.92	5,995.11	65.73	-25.33	-65.11	0.00	0.00	0.00
6,100.00	10.00	338.92	6,093.59	81.94	-31.58	-81.16	0.00	0.00	0.00
6,200.00	10.00	338.92	6,192.07	98.14	-37.82	-97.22	0.00	0.00	0.00
6 200 00	10.00	338.92							
6,300.00			6,290.55	114.35	-44.07 50.34	-113.27	0.00	0.00	0.00
6,400.00	10.00	338.92	6,389.03	130.55	-50.31	-129.32	0.00	0.00	0.00
6,500.00	10.00	338.92	6,487.51	146.76	-56.56	-145.38	0.00	0.00	0.00
6,600.00	10.00	338.92	6,585.99	162.97	-62.81	-161.43	0.00	0.00	0.00
6,700.00	10.00	338.92	6,684.47	179.17	-69.05	-177.48	0.00	0.00	0.00
6,800.00	10.00	338.92	6,782.95	195.38	-75.30	-193.54	0.00	0.00	0.00
6,900.00	10.00	338.92	6,881.43	211.58	-81.54	-209.59	0.00	0.00	0.00
7,000.00	10.00	338.92	6,979.91	227.79	-87.79	-225.64	0.00	0.00	0.00
7,100.00	10.00	338.92	7,078.39	244.00	-94.03	-241.70	0.00	0.00	0.00
7,200.00	10.00	338.92	7,176.87	260.20	-100.28	-257.75	0.00	0.00	0.00
7,300.00	10.00	338.92	7,275.35	276.41	-106.53	-273.81	0.00	0.00	0.00
7,400.00	10.00	338.92	7,373.83	292.61	-112,77	-289.86	0.00	0.00	0.00
7,500.00	10.00	338.92	7,472.31	308.82	-119.02	-305.91	0.00	0.00	0.00
7,600.00	10.00	338.92	7,570.79	325.02	-125,26	-321,97	0.00	0.00	0.00
7,700.00	10.00	338.92	7,669.27		-125,26	200.00		0.00	0.00
i.								•	
7,800.00	10.00	338.92	7,767.75	357.44	-137.75	-354.07	0.00	0.00	0.00
7,900.00	10.00	338.92	7,866.23	373.64	-144.00	-370.13	0.00	. 0.00	0.00
8,000.00	10.00	338.92	7,964.72	389.85	-150.24	-386.18	0.00	0.00	0.00
8,100.00	10.00	338.92	8,063.20	406.05	-156.49	-402.23	0.00	0.00	0.00
8,200.00	10.00	338.92	8,161.68	422.26	-162.74	-418.29	0.00	0.00	0.00
8,300.00	10.00	338.92	8,260.16	438.47	-168.98	-434.34	0.00	0.00	0.00
8,400.00	10.00	338.92	8,358.64	454.67	-175.23	-450.39	0.00	0.00	0.00
8,500.00	10.00	338.92	8,457.12	470.88	-181.47	-466.45	0.00	0.00	0.00
8,600.00	10.00	338.92	8,555.60	487.08	-187.72	-482.50	0.00	0.00	0.00
8,700.00	10.00	338.92	8,654.08	503.29	-193.96	-498.55	0.00	0.00	0.00
1.									
8,800.00	10.00	338.92	8,752.56	519.50 535.70	-200.21	-514.61	0.00	0.00	0.00
8,900.00	10.00	338.92	8,851.04	535.70 551.01	-206.46	-530.66 546.71	0.00	0.00	0.00
9,000.00 9,100.00	10.00 10.00	338.92 338.92	8,949.52 9,048.00	551.91 569.11	-212.70 -218.95	-546.71 -562.77	0.00	0.00	0.00
9,100.00		338.92 338.92	9,048.00	568.11			0.00	0.00	0.00
	10.00			584.32	-225.19	-578.82	0.00	0.00	0.00
9,300.00	10.00	338.92	9,244.96	600.53	-231.44	-594.87	0.00	0.00	0.00
9,400.00	10.00	338.92	9,343.44	616.73	-237.68	-610.93	0.00	0.00	0.00
9,500.00	10.00	338.92	9,441.92	632.94	-243.93	-626.98	0.00	0.00	0.00
9,600.00	10.00	338.92	9,540.40	649,14	-250.18	-643.03	0.00	0.00	0.00
9,700.00	10.00	338.92	9,638.88	665.35	-256.42	-659.09	0.00	0.00	0.00
9,800.00	10.00	338.92	9,737.36	681.55	-262.67	-675.14	0.00	0.00	0.00
9,831.71	10.00	338.92	9,768.59	686.69	-264.65	-680.23	0.00	0.00	0.00
9,900.00	8.66	337.26	9,835.97	696.97	-268.77	-690.41	2.00	-1.96	-2.43
10,000.00	6.72	333.65	9,935.07	709.16	-200.77 -274.28	-702.46	2.00	-1.94	-3.61
10,100.00	4.83	327.17	10,034.56	717.94	-279.16	-702. 4 0	2.00	-1.89	-6.48
							,		
10,200.00	3.07	312.90	10,134.32	723.30	-283.40	-716.38	2.00	-1.76	-14.27
10,300.00	1.88	273.77	10,234.23	725.23	-287.00	-718.23	2.00	-1.19	-39.13
10,400.00	2.38	219.33	10,334.17	723.73	-289.96	-716.66	2.00	0.50	-54.44

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Planning Report

Company: Project: Site: // Well:

HOPSPP

ENGINEERING DESIGNS

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

PLATINUM MDP1 34-3 FED COM 172H

WB00

Wellbore Design: Permitting Plan

Local Co-ordinate Reference: Well PLATINUM MDP1 34-3 FED COM 172H
TVD Reference: RKB=26.5' @ 3450.20ft
RKB=26.5' @ 3450.20ft
Grid
Survey Calculation Method: Minimum Curvature

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Planned Survey	75 24 74 CHE . 2873 . 27 1 1 62	a. 7 ha. ili delle din	4 TORROTTO NAMED BY A	ar an armenantari	T. H. J. T. T. LOUIS, VON		APPEAR THE PROPERTY CONTRACTOR	entarinas, vetrasabrador in	CHARLESCAPE, EXAMINED.
Planned Survey	Same and the second common to the second control of the second con	ran (elaneara rationata de la	ner, miller, makkenmetalis daktis.	STILL FOR THE PROPERTY.	en maranana-e e	caetemanen, virilari ile	nater taken natio a	narny compression promise con prime	A CONTRACTOR CATAMARKS CATAMARKS
MINERY TO A PRINCIPAL OF	an all the same		ration to the second of the	A THE ANY THE TANK THE TANK		经期间的关键	Dogleg.	州等的特别的	September 1985 Annie
Parameter Measured	Part of the Control o	1 12 1 1 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3	, Vertical			Vertical **	Donien	Build 🔭 🖫	愛Turn をデジュー
The Committee of the Co	clination	Azimuth	Depth .		+E/-W	Section	∉ Rate & ⊭	Rate	Rate
(ft)	icination "	Azimutn "		**************************************	+EJ-VV			Market Manager Control of the Control	(°/100ft)
14年53年27月28日前张·蒙	(0)		(ft),	, /; (ft)	: 51 (ft)>	a (ft)	(°/100ft)-	(°/100ft)	
AMERICA IN THE CASE OF THE PARTY OF THE PART		el vlass dia .	TO THE PERSON NAMED IN				ta kok arek		过300 战后撤进过分"[
10,500.00	3.97	196.63	10,434.02	718.81	-292.27	-711.68	2.00	1.59	-22.70
10,600.00	5.82	187.53	10,533.65	710. 4 6	-293.92	-703.29	2.00	1.85	-9.09
. 40 700 00	7.75	400.07	40.000.04	000.70	00400	004.54	0.00	4.00	
10,700.00	7.75	182.87	10,632.94	698.70	-294.93	-691,51	2.00	1.92	-4.66
10,800.00	9.70	180.07	10,731.78	683.54	-295.27	-676.35	2.00	1.95	· -2.80
10,815.18	10.00	179.74	10,746.74	680.94	-295.27	-673.75	2.00	1.97	-2.18
10,900.00	18.48	179.74	10,828.88	660.09	-295.17	-652.91	10.00	10.00	0.00
11,000.00	28.48	179.74	10,920.48	620.30	-294.99	-613.13	10.00	10.00	0.00
			·						
11,100.00	.38.48	179.74	11,003.78	565.20	-294.74	-558.06	10.00	10.00	0.00
11,200.00	48.48	179.74	11,076.25	496.48	-294.43	-489.36	10,00	10.00	0.00
11,300.00	58.48	179.74	11,135.68	416.21	-294.06	-409.13	10.00	10.00	0.00
11,400.00	68.48	179.74	11,180.27	326.85	-293.65	-319,79	10.00	10.00	0.00
			•						
11,500.00	78.48	179.74	11,208.66	231.10	-293.21	-224.08	10.00	10.00	0.00
11,600.00	88.48	179.74	11,220.00	. 131.87	-292.76	-124.89	10.00	10.00	0.00
11,613.53	89.84	179.74	11,220.20	118.34	-292.70				
						-111.37	10.00	10.00	0.00
11,700.00	89.84	179.74	11,220,45	31.87	-292.30	-24.94	0.00	0.00	0.00
11,800.00	89.84	179.74	11,220.74	-68.13	-291.84	75.02	0.00	0.00	0.00
11,900.00	89.84	179.74	11,221.02	-168.13	-291.39	174.98	0.00	0.00	0.00
40,000,00	00.04	470.74	44.004.04	000.40	000.00	07404			
12,000.00	89.84	179.74	11,221.31	-268.12	-290.93	274.94	0.00	0.00	0.00
12,100.00	89.84	179.74	11,221.60	-368.12	-290.47	374.90	0.00	0.00	0.00
12,200.00	89.84	179.74	11,221.88	- 468.12	-290.02	474.86	0.00	0.00	0.00
12,300.00	89.84	179,74	11,222,17	-568.12	-289.56	574.82	0.00	0.00	0.00
12,400.00	89.84	179.74	11,222.46	-668.12	-289.10	674.78	0.00	0.00	0.00
-				000.12	200.10		0.00	0.00	0.00
12,500.00	89.84	179.74	11,222.75	-768.12	-288.64	774.74	0.00	0.00	0.00
12,600.00	89.84	179.74	11,223.03	-868.12	-288.19	874.70	0.00	0.00	0.00
12,700.00	89.84	179.74	11,223.32	-968.11	-287.73	974.66	0.00	0.00	0.00
12,800.00	89.84	179.74	11,223.61	-1,068.11	-287.27	1,074.62	0.00	0.00	0.00
12,900.00									
12,900.00	89.84	179.74	11,223.89	-1,168.11	-286.81	1,174.58	0.00	0.00	0.00
13,000.00	89.84	179.74	11,224,18	-1,268.11	-286.36	1,274.54	0.00	0.00	0.00
13,100.00	89.84	179.74	11,224.47	-1,368.11	-285.90	1,374,50	0.00	0.00	0.00
	89.84	179.74		-1,468.11		•			
13,200.00			11,224.75		-285.44	1,474.46	0.00	0.00	0.00
13,300.00	89.84	179.74	11,225.04	-1,568.10	-284.99	1,574.42	0.00	0.00	0.00
13,400.00	89.84	179.74	11,225.33	-1,668.10	-284.53	1,674.38	0.00	0.00	0.00
13,500.00	89.84	179.74	11,225,62	1 700 10	204.07	1 774 24	0.00	0.00	0.00
			•	-1,768.10	-284.07	1,774.34	0.00	0.00	0.00
13,600.00	89.84	179.74	11,225.90	-1,868.10	-283.61	1,874.30	0.00	0.00	0.00
13,700.00	89.84	179.74	11,226.19	-1,968.10	-283.16	1,974.26	0.00	0.00	0.00
13,800.00	89.84	179.74	11,226.48	-2,068.10	-282.70	2,074.22	0.00	0.00	0.00
13,900.00	89.84	179.74	11,226.76	-2,168.10	-282.24	2,174.18	0.00	0.00	0.00
44.000.00		470.74							
14,000.00	89.84	179.74	11,227.05	-2,268.09	-281.78	2,274.14	0.00	0.00	/ 0.00
14,100.00	89.84	179.74	11,227.34	-2,368.09	-281.33	2,374.10	0.00	0.00	0.00
14,200.00	89.84	179.74	11,227.63	-2,468.09	<i>-</i> 280.87	2,474.05	0.00	0.00	0.00
14,300.00	89.84	179.74	11,227.91	-2,568.09	-280.41	2,574.01	0.00	0.00	0.00
14,400.00	89.84	179.74	11,228.20	-2,668.09	-279.96	2,673.97	0.00	0.00	0.00
14,500.00	89.84	179.74	11,228.49	-2,768.09	-279.50	2,773.93	0.00	0.00	0.00
14,600.00	89.84	179.74	11,228.77	-2,868.09	-279.04	2,873.89	0.00	0.00	0.00
14,700.00	89.84	179.74	11,229.06	-2,968.08	-278.58	2,973.85	0.00	0.00	0.00
14,800.00	89.84	179.74	11,229.35	-3,068.08	-278.13	3,073.81	0.00	0.00	0.00
14,900.00	89.84	179.74	11,229.64	-3,168.08	-277.67	3,173.77	0.00	0.00	0.00
15,000.00	89.84	179.74	11,229.92	-3,268.08	-277.21	3,273.73	0.00	0.00	0.00
•									
15,100.00	89.84	179.74	11,230.21	-3,368.08	-276.75	3,373.69	0.00	0.00	0.00
15,200.00	89.84	179.74	11,230.50	-3,468.08	-276.30	3,473.65	0.00	0.00	0.00
15,300.00	89.84	179.74	11,230.78	-3,568.08	-275.84	3,573.61	0.00	0.00	0.00
15,400.00	89.84	179.74	11,231.07	-3,668.07	-275.38	3,673.57	0.00	0.00	0.00
·									ì
15,500.00	89.84	179.74	11,231.36	-3,768.07	-274.93	3,773.53	0.00	0.00	0.00
15,600.00	89.84	179.74	11,231.65	-3,868.07	-274.47	3,873 <i>.</i> 49	0.00	0.00	0.00

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Planning Report

Database:

HOPSPP ENGINEERING DESIGNS

Database Company Project Site Well Wellbore Design: PRD NM DIRECTIONAL PLANS (NAD 1983) PLATINUM MDP1 34-3 FED COM

PLATINUM MDP1 34-3 FED COM 172H

WB00 Permitting Plan

Local Co-ordinate Reference TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well PLATINUM MDP1 34-3 FED COM 172H

RKB=26.5' @ 3450.20ft

RKB=26.5' @ 3450.20ft

Minimum Curvature

Branch of the state of the stat	Champing and an	and with the section of the section				and the state of the state of			aramana ni mahana akana aka isi isi mahanda 🖟
PERSONAL MENTAL PROPERTY OF	property and a second a second and a second	ejabuzar yanklı itt kal	TENESTE MARKET PROCES	384,394,25, 126,4,367,7,24	U A TORY LEADER	LOGBERT PRESENTATION.	al collegent bear	MELLIN ALL THROUGH ALL PA	artemateratus et erre autorius volumes (est erre erre erre erre erre erre erre e
Planned Survey		ANTERNATION TO SAN	. This Citizen Collection of the Collection of t	Proposition de la company	NAMES OF THE PROPERTY OF THE P	E TOTO TOTO TOTO SECURITA	Maria de la composition de la composit	وردوار مخروس والمسود موساته	فيتبار واستواع ومرسوا والمساور
The man water and a		Day of the Mark of	1	Sum Service		in it is the man in the series	北京城 2000年		THE WAY TO SEE AND A
Measured		"作"是概念	Vertical			Vertical	Dogleg	Build 52	Turn was a series
Depth Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Section	Rate	Rate	Rate (
William State		AZIMUUM	(ft)			(ft)	(°/100ft)	(°/100ft)	(°/100ft)
· 有一种 有一种 可以			电解学组织	(j. (ft) 製力	是一(的)表现。	等。14.16.16	2 . 2 . 1 . 1 . 1 . 1 . 1 . 1 . 1 . 1 .		A THE REAL PROPERTY.
b. militare i manifesta acceptanti and and care	NAME TANDES OF THE STATE OF THE	470.74	44 004 00	ata in Lincoln and	orenamentalistika	اعتملت دنسندانده د		de Milyaire	Miller of the Control
15,700.00	89.84	179.74	11,231.93	-3,968.07	-274.01	3,973.45	0.00	0.00	0.00
15,800.00	89.84	179.74	11,232.22,	-4,068.07	-273.55	4,073.41	0.00	0.00	0.00
15,900.00	89.84	179.74	11,232.51	-4,168.07	-273.10	4,173.37	0.00	0.00	0.00
16,000.00	89.84	470.74	11,232,79	4 000 07	070.04	4.070.00	0.00		
1		179.74		-4,268.07	-272.64	4,273.33	0.00	0.00	0.00
16,100.00	89.84	179.74	11,233.08	-4,368.06	-272.18	4,373.29	0.00	0.00	0.00
16,200.00	89.84	179.74	11,233.37	-4,468.06	-271.72	4,473.25	0.00	0.00	0.00
16,300.00	89.84	179.74	11,233.66	-4,568.06	-271.27	4,573.21	0.00	0.00	0.00
16,400.00	89.84	179.74	11,233.94	-4,668.06	-270.81	4,673.17	0.00	0.00	0.00
10 500 00	00.04	470.74	44 004 00	4 700 00	070.05	4 770 40	0,00	0.00	0.00
16,500.00	89.84	179.74	11,234.23	-4,768.06	-270.35	4,773.13	0.00	0.00	0.00
16,600.00	89.84	179.74	11,234.52	-4,868.06	-269.89	4,873.09	0.00	0.00	0.00
16,700.00	89.84	179.74	11,234.80	-4,968.06	-269.44	4,973.05	0.00	0.00	0.00
16,800.00	89.84	179.7 4	11,235.09	-5,068.05	-268.98	5,073.01	0.00	0.00	0.00
16,900.00	89.84	179.74	11,235.38	-5,168.05	-268.52	5,172.96	0.00	0.00	0.00
•			•						
17,000.00	89.84	179.74	11,235.66	-5,268.05	-268.07	5,272.92	0.00	0.00	0.00
17,100.00	89.84	179.74	11,235.95	-5,368.05	-267.61	5,372.88	0.00	0.00	- 0.00
17,200.00	89.84	179,74	11,236.24	-5,468.05	-267.15	5,472.84	0.00	0.00	0.00
17,300.00	89.84	179.74	11,236.53	-5,568.05	-266.69	5.572.80	0.00	0.00	0.00
17,400.00	89.84	179.74	11,236.81	-5,668.05	-266,24	5,672.76	0.00	0.00	0.00
· ·								0.00	0.00
17,500.00	89.84	179.74	11,237.10	-5,768.04	-265.78	5,772.72	0.00	0.00	0.00
17,600.00	89.84	179.74	11,237.39	-5,868.04	-265.32	5,872.68	0.00	0.00	0.00
17,700.00	89.84	179.74	11,237,67	-5.968.04	-264.86	5,972.64	0.00	0.00	0.00
17,800.00	89.84	179.74	11,237.96	-6,068.04	-264.41	6,072.60	0.00	0.00	0.00
17,900.00	89.84	179.74	11,238.25	-6,168.04	-263.95	6,172.56	0.00	0.00	0.00
17,500.00	03.04	115.17	11,230.23	-0,100.04	-203.93	0,172.30	0.00	0.00	0.00
18,000.00	89.84	179.74	11,238.54	-6,268.04	-263.49	6,272.52	0.00	0.00	0.00
18,100.00	89.84	179.74	11,238.82	-6,368.04	-263.04	6,372.48	0.00	0.00	0.00
18,200.00	89.84	179.74	11,239.11	-6,468.03	-262.58	6,472.44	0.00	0.00	0.00
18,300.00	89.84	179.74	11,239.40	-6,568.03	-262.12	6,572.40	• 0.00	0.00	0.00
1	89.84	179.74					0.00		
18,400.00	09.04	179.14	11,239.68	-6,668.03	-261.66	6,672.36	0.00	0.00	0.00
18,500.00	89.84	179.74	11,239.97	-6,768.03	-261.21	6,772.32	0.00	0.00	0.00
18,600.00	89.84	179.74	11,240,26	-6,868.03	-260.75	6,872.28	0.00	0.00	0.00
18,700.00	89.84	179.74	11,240.55	-6,968.03	-260.29	6,972.24	0.00	0.00	0.00
18,800.00	89.84	179.74	11,240.83	-7,068.02	-259.83	7,072.20	0.00	0.00	0.00
i '									
18,900.00	89.84	179.74	11,241.12	-7,168.02	-259.38	7,172.16	0.00	0.00	0.00
19,000.00	89.84	179.74	11,241.41	-7,268.02	-258.92	7,272.12	0.00	0.00	0.00
19,100.00	89.84	179.74	11,241.69	-7,368.02	-258.46	7,372.08	0.00	0.00	0.00
19,200.00	89.84	179,74	11,241,98	-7,468.02	-258.01	7,472.04	0.00	0.00	0.00
19,300.00	89.84	179,74	11,242,27	-7,568.02	-257.55	7,572.00	0.00	0.00	0.00
'	89.84	179.74	•	-7,568.02 -7,668.02	-257.09				i i
19,400.00	09.04	1/9./4	11,242.56	-7,000.02	-257.09	7,671.96	0.00	0.00	`0.00
19,500.00	89.84	179.74	11,242.84	-7,768.01	-256.63	7,771.91	0.00	0.00	0.00
19,600.00	89.84	179.74	11,243.13	-7,868.01	-256.18	7,871.87	0.00	0.00	0.00
19,700.00	89.84	179.74	11,243.42	-7,968.01	-255.72	7,971.83	0.00	0.00	0.00
19,800.00	89.84	179.74	11,243.42	-8,068.01	-255,26	8,071.79	0.00	0.00	0.00
· · · · · · · · · · · · · · · · · · ·									
19,900.00	89.84	179.74	11,243.99	-8,168.01	-254.80	8,171.75	0.00	0.00	0.00
20,000.00	89.84	179.74	11,244.28	-8,268,01	-254.35	8,271.71	0.00	0.00	0.00
20,100.00	89.84	179.74	11,244.56	-8,368.01	-253.89	8,371.67	0.00	0.00	0.00
20,200.00	89.84	179.74	11,244,85	-8,468.00	-253.43	8,471.63	0.00	0.00	0.00
20,300.00	89.84	179.74	11,245.14	-8,568.00	-252.98	8,571.59	0.00	0.00	0.00
20,400.00	89.84	179.74	11,245.43	-8,668.00	-252.52	8,671.55	0.00	0.00	0.00
20 500 00	00.04	170 74	44 045 74	-8,768.00	252.00	0 774 54	0.00	0.00	0.00
20,500.00	89.84	179.74	11,245.71		-252.06	8,771.51			
20,600.00	89.84	179.74	11,246.00	-8,868.00	-251.60	8,871.47	0.00	0.00	0.00
20,700.00	89.84	179.74	11,246.29	-8,968.00	-251.15	8,971.43	0.00	0.00	0.00
20,800.00	89.84	179.74	11,246.57	-9,068.00	-250.69	9,071.39	0.00	0.00	0.00
20,900.00	89.84	179.74	11,246.86	-9,167.99	-250.23	9,171.35	0.00	0.00	0.00
•				0.00=.00					
21,000.00	89.84	179.74	11,247.15	-9,267.99	-249.77	9,271.31	0.00	0.00	0.00

Оху

Planning Report

ompany E roject: F ité F dell: F dellbore: V	IOPSPP INGINEERING TO MM DIRECT CLATINUM MD PLATINUM MD VB00 Permitting Plan	CTIONAL PLA P1 34-3 FED P1 34-3 FED	сом	TVD R 33) MD Re North	o-ordinate/F ference: Ference: Reference: Calculation		Well PLATINUM MDP1 34-3 FED COM 172H RKB=26.5' @ 3450.20ft RKB=26.5' @ 3450.20ft Grid Minimum Curvature			
lanned Survey∄ 100	THE PROPERTY OF	art. saisestalise e con	NA JOSEPH AND STREET COLUMN	THE CONTRACTOR OF THE MATERIAL CONTRACTOR	ACULTO TO A PROPERTY AND A PERSON AND A PERS	TO A SECTION AND PROPERTY AND ADDRESS.	THE PERSON OF THE PERSON CORP.	MARTINE STATE THE	STATEGRADICAL ARRESTS. EL	
Measured Depths In	clination #	Azimuth	Vertical Depth (ft)	+N/-S -(ft)	+E/-W/	vertical Section (ft)		Build Rate //100ft)	Turñ Rate (*/100ft)	
21,100.00	89.84	179.74	11,247.44	-9,367.99	-249.32	9,371.27	0.00	0.00	0.00	
21,200.00	89.84	179.74	11,247.72	-9,467.99	-248.86	9,471.23	0.00	0.00	0.00	
21,300.00	89.84	179.74	11,248.01	-9,567.99	-248.40	9,571.19	0.00	0.00	0.00	
21,400.00	89.84	179.74	11,248.30	-9,667.99	-247.95	9,671.15	0.00	0.00	0.00	
21,500.00	89.84	179.74	11,248.58	-9,767.99	-247.49	9,771.11	0.00	0.00	0.00	
21,600.00	89.84	179.74	11,248.87	-9,867.98	-247.03	9,871.07	0.00	0.00	0.00	
21,700.00	89.84	179.74	11,249.16	-9,967.98	-246.57	9,971.03	0.00	0.00	0.00	
21,800.00	89.84	179.74	11,249.45	-10,067.98	-246.12	10,070.99	0.00	0.00	0.00	
21,900.00	89.84	179.74	11,249.73	-10,167.98	-245.66	10,170.95	0.00	0.00	0.00	
22,000.00	89.84	179.74	11,250.02	-10,267.98	-245,20	10,270.91	0.00	0.00	0.00	
	89.84	179.74	11.250.20	-10.330.87	-244.91	10,333.78	0.00	0.00	0.00	

Design Targets Target Name hidmiss target - Dip	Angle Di	p,Dir. TVD (°)(ft)	+N/s *(tt)	+E/-Ŵ	Northing (usft)	Easting (usft)	Latitude	Longitude
FTP (Platinum MDP1 - plan hits target center - Point	0.00	0.00 11,220.	20 118.34	-292.70	461,652.45	714,925.29	32° 16' 4.471451 N	103° 46′ 18.177171
PBHL (Platinum MDP1 - plan hits target center - Point	. 0.00	0.01 11,250.	20 -10,330.87	-244.91	451,203:85	714,973.07	32° 14' 21.074420 N	103° 46' 18,257262

Plan Annotations				`
	overson in the contract of		的情况为	
Measured	Vertical	Local Coord	inates	
Depth /	Depth	· i +N/-S	+E/-W	
(ft)	(t) (t)	(ft)************************************	n. (ft)	Comment
5,345.00	5,345.00	0.00	0.00	Build 2.00°/100'
1				
5,845.09	5,842.55	40.62	-15.66	Hold 10.00° Tangent
9,831.71	9,768.59	686.69	-264.65	Turn 2.00°/100'
10,815.18	10,746.74	680.94	-295.27	KOP, Build 10.00°/100'
11,613.53	11,220.20	118.34	-292.70	Landing Point
22,062.90	11,250.20	-10,330.87	-244.91	TD at 22062,89' MD

PERFORMANCE DATA

TMK UP TORQ™ DQW **Technical Data Sheet**

Nom. Pipe Body Area

5.500 in

20.00 lbs/ft

P110 CY

psi

psi

lbs

lbs

psi

psi

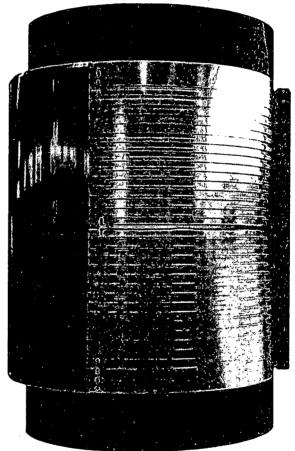
Tubular Parameters				
Size	5.500	in	Minimum Yield	110,000
Nominal Weight	20.00	lbs/ft	Minimum Tensile	125,000
Grade	P110 CY		Yield Load	641,000
PE Weight	19.81	lbs/ft	Tensile Load	729,000
Wall Thickness	0.361	in	Min. Internal Yield Pressure	12,640
Nominal ID	4.778	lin	Collapse Pressure	11,110
Drift Diameter	4.653	lin		<u>. </u>

in²

5.828

Connection Parameters		
Connection OD	6.050	in
Connection ID	4.778	in
Make-Up Loss	4.324	in
Critical Section Area	5.828	in²
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	³ / 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

Nom. Pipe Body Area

5.500 in

20.00 lbs/ft

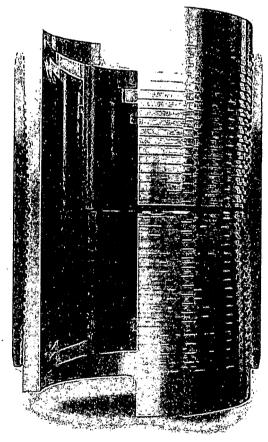
P-110

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		1 '	,

Connection Parameters		
Connection OD	6.050	in
Connection ID	4.778	in
Make-Up Loss	4 122	in:
Critical Section Area	5.828	in²
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

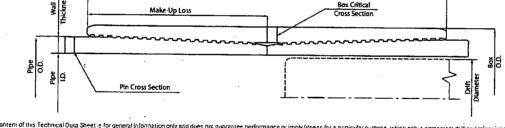
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PSCO

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, (kibs)	641
COMMERCIAL PARAMETERS	•	Min. Internal Yield Pressure, (psi)	12 640
CONNECTION PARAMETERS		Collapse Pressure, (psi)	11 110
Connection OD (inch)	6.05		
Connection ID, (inch)	4.778	nicinal Pressure	
Make-Up Loss, (inch)	4.122		
Connection Critical Area, (sq inch)	5.828		
Yield Strength in Tension, (klbs)	641	in francis	
Yeld Strength in Compression, (klbs)	641	The second secon	がおかかかかっかったか
Tension Efficiency	100%		34-1+
Compression Efficiency	. 100%	Colorate State of the state of	Land to the second
Min. Internal Yield Pressure, (psi)	12 640		
Collapse Pressure, (psi)	11 110		
Uniaxial Bending (deg/100ft)	91 7		
MAKE-UP TORQUES		100000000000000000000000000000000000000	
Yield Torque, (ft-lb)	20 600	External Prossure	1 1 2 2 3 5 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Minimum Make-Up Torque, (ft-lb)	11 600		A liquit sturfure
Optimum Make-Up Torque, (ft-lb)	12 900		
Maximum Make-Up Torque, (ft-lb)	14 100	· ·	
₀	Сои	pling Length	
Wall	Make-Up Loss	Box Critical	
> <u>}</u>	man optob	Cross Section	



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Print date: 12/07/2017 18:09

PERFORMANCE DATA

TMK UP SF TORQ™ Technical Data Sheet

Nom. Pipe Body Area.

5.500 in

20.00 lbs/ft

P110 HC

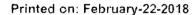
Tubular Parameters	i				
Size	5.500	in	Minimum Yield	110,000	psi
Nominal Weight	20.00	lbs/ft	Minimum Tensile	125,000	psi .
Grade	P110 HC		Yield Load	641,000	lbs
P.E Weight	19.81	lbs/ft	Tensile Load	728,000	lbs
Wall Thickness	0.361	in	Min. Internal Yield Pressure	12,640	psi
Nominal ID	4.778	in	Collapse Pressure	12,780	psi
Drift Diameter	4 653	lin		•	•

lin²

5.828

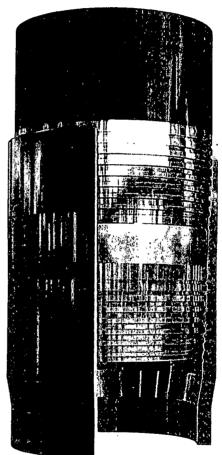
Connection Parameters		
Connection OD	5.7 7 7	in
Connection ID	4.734	in
Make-Up Loss	5.823	in
Critical Section Area	5.875	in ²
Tension Efficiency	90.0	%
Compression Efficiency	90.0	%
Yield Load In Tension	576,000	lbs
Min. Internal Yield Pressure	12,640	psi
Collapse Pressure	12,780	psi
Uniaxial Bending	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





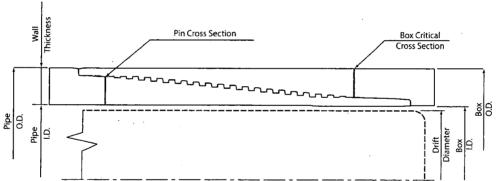
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TECHNICAL DATA SHEET TMK UP FJ 7.625 X 26.4 L80 HC

TUBULAR PARAMETERS		PIPE BODY PROPERTIES	
Nominal OD, (inch)	7.625	PE Weight, (lbs/ft)	25.56
Wall Thickness, (inch)	0.328	Nominal Weight, (lbs/ft)	26.40
Pipe Grade	L80 HC	Nominal ID, (inch)	6.969
Drift	Standard	Drift Diameter, (inch)	6.844
		Nominal Pipe Body Area, (sq inch)	7.519
CONNECTION PARAMETERS	······································	Yield Strength in Tension, (klbs)	601
Connection OD (inch)	7.63	Min. Internal Yield Pressure, (psi)	6 020
Connection ID, (inch)	6.975	Collapse Pressure, (psi)	3 910
Make-Up Loss, (inch)	4.165	· • • • • • • • • • • • • • • • • • • •	
Connection Critical Area, (sq inch)	2.520	Internal Pressure	
Yield Strength in Tension, (klbs)	347		
Yeld Strength in Compression, (klbs)	347		W 19
Tension Efficiency	58%	1009H NP15C3/150	
Compression Efficiency	58%		
Min. Internal Yield Pressure, (psi)	6 020		10 a 495
Collapse Pressure, (psi)	3 910	Compression	7: Tension
Uniaxial Bending (deg/100ft)	28.0		/
			# 30 °
MAKE-UP TORQUES			
Yield Torque, (ft-lb)	22 200	VME	, R. 3.
Minimum Make-Up Torque, (ft-lb)	12 500		1 W 1
Optimum Make-Up Torque, (ft-lb)	13 900		Location to livery
Maximum Make-Up Torque, (ft-lb)	15 300		
1		·	

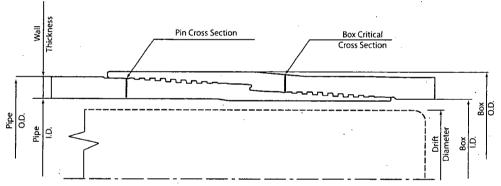


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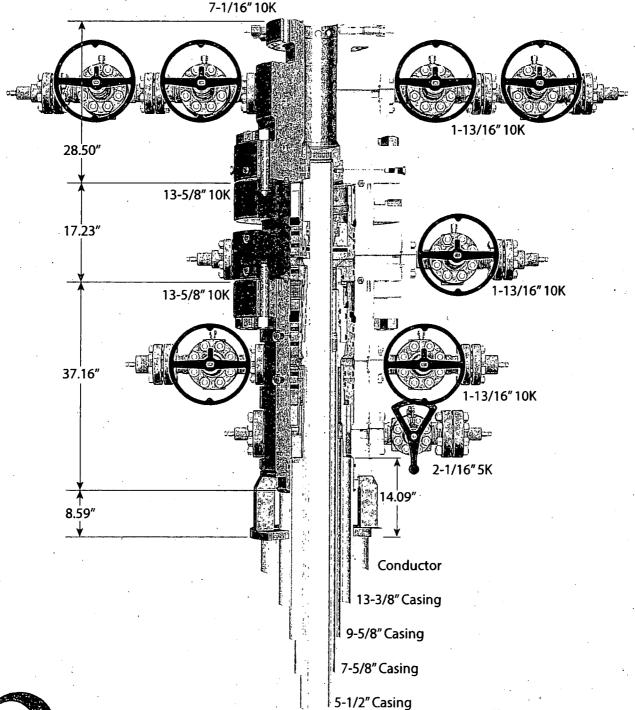
TECHNICAL DATA SHEET TMK UP SF 7.625 X 26.4 L80 HC

TUBULAR PARAMETERS .		PIPE BODY PROPERTIES	
Nominal OD, (inch)	7.625	PE Weight, (lbs/ft)	25.56
Wall Thickness, (inch)	0.328	Nominal Weight, (lbs/ft)	26.40
Pipe Grade	L80 HC	Nominal ID, (inch)	6.969
Drift	Standard	Drift Diameter, (inch)	6.844
CONNECTION PARAMETERS		Nominal Pipe Body Area, (sq inch)	7.519
	· · · · · · · · · · · · · · · · · · ·	Yield Strength in Tension, (klbs)	601
Connection OD (inch)	7.79	Min. Internal Yield Pressure, (psi)	6 020
Connection ID, (inch)	6.938	Collapse Pressure, (psi)	3 910
Make-Up Loss, (inch)	6.029		1
Connection Critical Area, (sq inch)	5.948	Internal Pressure	
Yield Strength in Tension, (klbs)	533		
Yeld Strength in Compression, (klbs)	533		
Tension Efficiency	89%	100% PP 5C37 ISO	
Compression Efficiency	89%		
Min. Internal Yield Pressure, (psi)	6 020		/
Collapse Pressure, (psi)	3 910	Compression	Tenston
Uniaxial Bending (deg/100ft)	42.7		1 2
	V.		4
MAKE-UP TORQUES			
Yield Torque, (ft-lb)	22 600	IVME	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Minimum Make-Up Torque, (ft-lb)	15 000		
Optimum Make-Up Torque, (ft-lb)	16 500	External Pressure	Curnection Pape floats
Maximum Make-Up Torque, (ft-lb)	18 200		



NOTE: The content of this Technical Data Sheet is for general information only and does not guarantee performance or imply if these for a particular purpose, which only a competent drilling professional can determine considering the specific installation and operation parameters. This information superseds all prior versions for this connection, information that is a finited or downloaded, is no longer controlled by TMA, and might not be the latest theorems using the information review does so at their own risk. To everify this, you have the latest thechical information, please contact PAO "TMF" Technical Sales in Russia (Tel + * (495) 775-76-00 Email technicalsa@tmi-group comit and TMK PSDO in North America (Tel + 1 (281)949-1044, Email technicalsa@tmi-group comit and TMK PSDO in North America (Tel + 1 (281)949-1044, Email technicalsa@tmi-group comit and TMK PSDO in North America (Tel + 1 (281)949-1044, Email technicalsa@tmi-group comit and TMK PSDO in North America (Tel + 1 (281)949-1044, Email technicalsa@tmi-group comit and TMK PSDO in North America (Tel + 1 (281)949-1044, Email technicalsa@tmi-group comit and TMK PSDO in North America (Tel + 1 (281)949-1044, Email technicalsa@tmi-group comit and TMK PSDO in North America (Tel + 1 (281)949-1044, Email technicalsa@tmi-group comit and TMK PSDO in North America (Tel + 1 (281)949-1044, Email technicalsa@tmi-group comit and TMK PSDO in North America (Tel + 1 (281)949-1044, Email technicalsa@tmi-group comit and TMK PSDO in North America (Tel + 1 (281)949-1044, Email technicalsa@tmi-group comit and TMK PSDO in North America (Tel + 1 (281)949-1044, Email technicalsa@tmi-group comit and TMK PSDO in North America (Tel + 1 (281)949-1044, Email technicalsa@tmi-group comit and TMK PSDO in North America (Tel + 1 (281)949-1044, Email technicalsa@tmi-group comit and TMK PSDO in North America (Tel + 1 (281)949-1044, Email technicalsa@tmi-group comit and TMK PSDO in North America (Tel + 1 (281)949-1044, Email technicalsa@tmi-group comit and TMK PSDO in North America (Tel + 1

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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	10M
		Upper 3-1/2 - 5-1/2" VBR	
HWDP	4-1/2"-5"	Lower 3-1/2 - 5-1/2" VBR	10M
		Upper 3-1/2 - 5-1/2" VBR	
Drill collars and MWD tools	4-3/4" – 5-1/2"	Lower 3-1/2 - 5-1/2" VBR	10M
```	_	Upper 3-1/2 - 5-1/2" VBR	
Mud Motor	4-3/4"	Lower 3-1/2 - 5-1/2" VBR	10M
		Upper 3-1/2 - 5-1/2" VBR	
Production casing	5-1/2"	Lower 3-1/2 - 5-1/2" VBR	10M
		Upper 3-1/2 - 5-1/2" VBR	
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



Project: PRD NM DIRECTIONAL PLANS (NAD 1983)

Site: PLATINUM MDP1 34-3 FED COM

Well: PLATINUM MDP1 34-3 FED COM 172H

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

