Form 3160-5 (June 2015)

UNITED STATES DEPARTMENT OF THE INTERIOR

BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

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

5.	Lease Serial No.
	NIMNIMA5236

abandoned wei	II. Use form 3160-3 (API	D) for such p	roposals.		6. If Indian, Allottee	or Tribe Name
SUBMIT IN T	TRIPLICATE - Other inst	tructions on	page 2		7. If Unit or CA/Agre	ement, Name and/or No.
1. Type of Well					8. Well Name and No.	
Oil Well Gas Well Oth	ner				STERLING SILVI	ER MDP1 33-4 FD C 175H
2. Name of Operator OXY USA INCORPORATED	Contact: E-Mail: SARAH_C	SARAH E CH HAPMAN@OX			9. API Well No. 30-015-45388-0	00-X1
3a. Address 5 GREENWAY PLAZA SUITE HOUSTON, TX 77046-0521	110	3b. Phone No. Ph: 713-35	(include area code) 0-4997		10. Field and Pool or PURPLE SAGE	Exploratory Area E-WOLFCAMP (GAS)
4. Location of Well (Footage, Sec., T	., R., M., or Survey Description)			11. County or Parish,	State
Sec 33 T23S R31E NENE 96F 32.267918 N Lat, 103.776146					EDDY COUNT	Y, NM
12. CHECK THE AF	PPROPRIATE BOX(ES)	TO INDICA	ΓΕ NATURE OI	F, NOTICE,	REPORT, OR OTI	HER DATA
TYPE OF SUBMISSION			TYPE OF	ACTION		
Sh Nation of Intent	☐ Acidize	☐ Deep	oen	□ Product	ion (Start/Resume)	☐ Water Shut-Off
Notice of Intent	☐ Alter Casing	☐ Hyd	raulic Fracturing	☐ Reclam	ation	☐ Well Integrity
☐ Subsequent Report	☐ Casing Repair	□ New	Construction	Recomp	lete	. 🛛 Other
☐ Final Abandonment Notice	Change Plans	☐ Plug	and Abandon	☐ Tempor	arily Abandon	Change to Original A
	☐ Convert to Injection	☐ Plug	Back	□ Water I	-	ΓD
Attach the Bond under which the worfollowing completion of the involved testing has been completed. Final At determined that the site is ready for final BHL is moving 140' east to 2. Landing zone change 3. Cement Design (3-string to 4. Casing Design 5. Well Control Update	operations. If the operation repandomment Notices must be filinal inspection. Juests to amend the appropriate of the property	sults in a multipled only after all i	e completion or recorrequirements, includicause of the follo	mpletion in a ning reclamation wing chang	new interval, a Form 316 n, have been completed es:	60-4 must be filed once
Please find updated documen Thank you.	tation for your use.		Opera	tor C	opy	JUL 1 1 2019
					D	ISTRICTIHARTESIAO
14. I hereby certify that the foregoing is	Electronic Submission #	LINCORPORA	TFD sent to the (Carlshad	•	
	CHAPMAN .	cosing by i iti		ATORY SPI		
						· · · · · · · · · · · · · · · · · · ·
Signature (Electronic S	Submission)		Date 05/23/20)19		
	THIS SPACE FO	OR FEDERA	L OR STATE (OFFICE U	SE	
Approved By NOUNGU KAMAU			TitlePFTROLFI	IM ENGINI	-FR	Date 06/20/2019

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.

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.

(Instructions on page 2) ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED **

Office Carlsbad

Revisions to Operator-Submitted EC Data for Sundry Notice #466591

Operator Submitted

BLM Revised (AFMSS)

Sundry Type:

APDCH

NOI

Lease:

NMNM45236

APDCH

NOI

NMNM45236

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

SARAH E CHAPIWAN 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:

STERLING SILVER MDP1 33-4 FEDE 175H Sec 33 T23S R31E NENE 96FNL 599FEL 32.267918 N Lat, 103.776144 W L'on

STERLING SILVER MDP1 33-4 FD C 175H Sec 33 T23S R31E NENE 96FNL 599FEL 32.267918 N Lat, 103.776146 W Lon

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: OXY USA INC.

LEASE NO.: NMNM 045236

WELL NAME & NO.: | Sterling Silver MDP1 33-4 Fed Com 175H

SURFACE HOLE FOOTAGE: 96'/N & 599'/E **BOTTOM HOLE FOOTAGE** 20'/S & 1120'/E

LOCATION: | SECTION 33, T23S, R31E, NMPM

COUNTY: | EDDY

COA

H2S	Yes	No No	
Potash	© None	Secretary	• R-111-P
Cave/Karst Potential	Cow	← Medium	(High
Variance	None	Flex Hose	← Other
Wellhead	© Conventional	Multibowl	Both
Other	☐ 4 String Area	Capitan Reef	WIPP
Other	Fluid Filled	Cement Squeeze	Pilot Hole
Special Requirements	☐ Water Disposal	₩ COM	Unit

ALL PREVIOUS COAS STILL APPLY

A. PRESSURE CONTROL

1.

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 1st 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.

B. SPECIAL REQUIREMENT (S)

Offline Cementing

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

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.

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
- 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

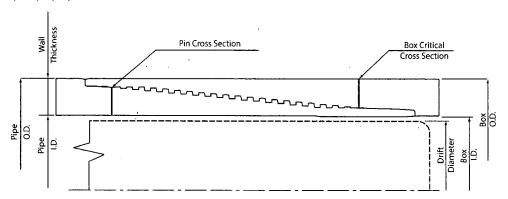
All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

NMK6202019

ieunnical data sheet twik up fj 7.625 x 26.4 lbu hu

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)	7.63	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	
Tension Efficiency	58%	100% API 5(27)5Q
Compression Efficiency	58%	
Min. Internal Yield Pressure, (psi)	6 020	
Collapse Pressure, (psi)	3 910	Compression / Tombler
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	External Pressure Conserver
Maximum Make-Up Torque, (ft-lb)	15 300	

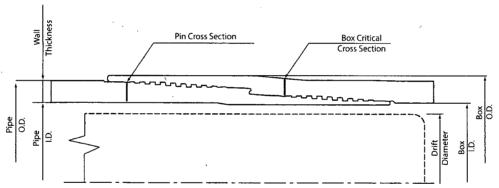


NOTE: The content of this Technical Data Sheet in for general information or Jyand does not guarantee periodical representation of the "season of the periodic installation and operation to representation determine consisting the specific installation and operation to represent to the season of the periodic installation and operation to represent the latest technical installation that is attituded in Power of the latest advantage of the periodic installation of the latest technical installation in the periodic installation of the per

Print date: 07/10/2018 20:11

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	5.56
Wall Thickness, (inch)	0.328	Nominal Weight, (lbs/ft) 26	6.40
Pipe Grade	L80 HC	Nominal ID, (inch) 6.	.969
Drift	Standard	Drift Diameter, (inch) 6.	.844
CONNECTION PARAMETERS			.519
Connection OD (inch)	7.79		501
Connection ID, (inch)	6.938		020
Make-Up Loss, (inch)	6.029	Collapse Pressure, (psi) 3	910
Connection Critical Area, (sq inch)	5.948	Internal Pressure	\
Yield Strength in Tension, (klbs)	533		
Yeld Strength in Compression, (klbs)	533		
Tension Efficiency	89%	JOSH PEROVICO	
Compression Efficiency	89%		
Min. Internal Yield Pressure, (psi)	6 020		
Collapse Pressure, (psi)	3 910	Consission The state of the s	Tension
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	External Pressure Com-	
Maximum Make-Up Torque, (ft-lb)	18 200		



NOTE: The content of this Technical Data Sheer is for general information only and floes not guarantee performance or imply times; for a particular purpose, which ships a completent finding professional can determine considering the specific asstulation and operation parameters. This information students dealers are the specific asstulation and operation parameters. This information students are the same and the same are the same are finding and the same are the same are finding and the same are the same are finding and the same are same are same and the same are same are same and the same are same are same are same and the same are same are same and the same are same and the same are same are same as the same are same are same and the same are same are same and the same are same are same are same are same are same are same and the same are same are same are same are same and the same are same are same and the same are same are same are same are same and the same are same are same are same are same are same and the same are same a

Print date: 07/10/2018 20:00

OXY

PRD NM DIRECTIONAL PLANS (NAD 1983) STERLING SILVER MDP1 33-4 FED COM STERLING SILVER MDP1 33-4 FED COM 175H

WB00

Plan: Permitting Plan

Standard Planning Report

20 May, 2019

Oxy

Planning Report

HOPSPP Database:

ENGINEERING DESIGNS Company

PRD NM DIRECTIONAL PLANS (NAD 1983) Project: Site: STERLING SILVER MDP1 33-4 FED COM

Well STERLING SILVER MDP1 33-4 FED COM 175H

Wellbore: WB00

Design: Permitting Plan Local Co-ordinate Reference

TVD Reference

MD Reference: North Reference

Survey Calculation Method:

Well STERLING SILVER MDP1 33-4 FED COM

175H

RKB=26.5' @ 3427.10ft RKB=26.5' @ 3427.10ft

Grid

Minimum Curvature

PRD NM DIRECTIONAL PLANS (NAD 1983)

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

STERLING SILVER MDP1 33-4 FED COM

Site Position:

Northing:

461,634.30 usft

Latitude:

32° 16' 4.557918 N

From:

Мар

Easting:

709,709.04 usft

Longitude:

Position Uncertainty:

Slot Radius:

13.200 in

Grid Convergence:

103° 47' 18.930890 W

50.00 ft

0.29

STERLING SILVER MDP1 33-4 FED COM 175H

Well Position

+N/-S +E/-W

14.65 ft 3.847.52 ft Northing: Easting:

461,648,95 usft 713,556.33 usft

Latitude: Longitude:

32° 16' 4.507430 N 103° 46' 34.121371 W

Position Uncertainty

2.00 ft

Wellhead Elevation:

0.00 ft

Ground Level:

3,400.60 ft

Wellbore, WB00

Declination

HDGM

5/20/2019

6.78

Permitting Plan

Audit Notes:

Version:

Phase:

0.00

Tie On Depth:

Depth From (TVD)

PROTOTYPE

(ft)/ 0.00 +E/-W Direction (ft))* 0.00

Plan Sections Build Measured Dogleg Vertical Depth Depth Inclination Azimuth Rate Rate ूर्वा (°/100ft) (°/100ft) (ft) 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 5,660.00 5,660.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 10.00 320.49 6,160.11 6,157.57 33.59 -27.702.00 2.00 0.00 320.49 10,176.62 10.00 320.49 10,113.04 571.84 -471.50 0.00 0.00 0.00 0.00 10.00 179.74 11,048.65 553.01 -523.61 2.00 -14.95 11,118.11 0.00 89.54 179.74 11,522.10 -521.05 0.00 FTP (Sterling Silver 11,913.56 -6.69 10.00 10.00 0.00 22,364.89 89.54 179.74 11,605.10 -10,457.59 -473.26 0.00 0.00 0.00 0.00 PBHL (Sterling

Oxy

Planning Report

Database: HOPSPP

Company: ENGINEERING DESIGNS
Project: PRD NM DIRECTIONAL PLANS (NAD 1983)
Site: STERLING SILVER MDP1 33-4 FED COM
Well: STERLING SILVER MDP1 33-4 FED COM 175H

Wellbore: WB00
Design: Permitting Plan HOPSPP

Local Co-ordinate Reference:

Well STERLING SILVER MDP1 33-4 FED COM

175H

ENGINEERING DESIGNS

PRD NM DIRECTIONAL PLANS (NAD 1983)

STEPLING SILVER MDP1 33-4 FED COM

MD Reference:

RKB=26.5' @ 3427.10ft

RKB=26.5' @ 3427.10ft

MDiReference: RKB=26.5' @ 3427.
North!Reference: Grid
Survey/Calculation:Method: Minimum Curvature

Design: 3 P	ermitting Plan	nyth Alba or North has notifical titles	and a second state of the control of		Taken July		er nyggyngalam i er nyggypennogen.	ermanuari en la cepa sa v	Lister or was to second a second
Planned Survey	alleger was elemen.	CONTRACT SUPPLICATION OF A SPECIAL PROPERTY.	L NILDERHAM PROPERTY OF	THE PROPERTY OF THE PROPERTY OF	The second secon	ON ASSESSMENT OF	CONCRETE SECURITIES CENTRE	Will Library Washington	THE THE PERSON OF THE PERSON O
riallied Survey	eren areta ennara	ente del arace	OLA LATERATA	PASSET A DEPENDE			THE WARRIES OF	CHARLEST THE SEC	TEOMORATIO CONCLUSIVA
	語的學科	re research	Vertical **					A TOTAL STATE	
Measured	clination A					ertical)	Dogleg 🔭 🙏	Build (*)	Turn
Depth tine	clination 🔭 🔏	zimuth	Depth	+Ñ/-S	+E/₩ F S	ection		Rate	Rate
Depth Inc (ft)	T(°) i (°) i	*(°)*e****	(ft)-	/(ft) 1.	/(ft)	((ft)) {		/100ft); 🗼 (°/100ft) (************************************
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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
600.00	0.00	0.00			0.00	0.00	0.00	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								0.00
2,300.00 2,400.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00		0.00	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
2 000 00	0.00	0.00	2 000 00	0.00					
3,000.00		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						
4,100.00	0.00		4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
		0.00		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
4.800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.00	0.00	0.00
4,900.00	0.00	0.00	4,900.00	0.00	0.00	0.00	0.00	0.00	0.00
5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	0.00	0.00	0.00
5,100.00	0.00	0.00	5,100.00	0.00	0.00	0.00	0.00	0.00	0.00

Database: HOPSPP

ENGINEERING DESIGNS

Company: PRD NM DIRECTIONAL PLANS (NAD 1983) Site: Well: STERLING SILVER MDP1 33-4 FED COM STERLING SILVER MDP1 33-4 FED COM 175H

Local Co-ordinate Reference: TVD Reference: MD Reference: Northi Reference: Survey, Calculation Method:

Well STERLING SILVER MDP1 33-4 FED COM 175H RKB=26.5' @ 3427.10ft RKB=26.5' @ 3427.10ft Grid

Minimum Curvature

Wellbore: WB00 Design: Permitting Plan

Planned Survey	eginen ett versener jaar.	BALL THE MALACAN	anadienamente parate ma	eirm germil Lengtszeren	Contraction of the Contraction o	rictadelles regar	220042 EXTRACTORES CONTRACT	olosopan a militarii	SALES CONTRACTOR CONTRACTOR
riailleu Sulvey		er and read		wareneren	STATE OF THE STATE				THE CONTRACTOR OF THE CONTRACT
Measured		101000	Vertical						
17 Yell Charles M. Z. Ch. International Control on Control of C			Depth		from and the second of the second of the second	Vertical		Build	Turn .
A THE PARTY OF THE		Azimuth	(ft)	+N/-S	Literature of the state of the	DAMES OF THE PROPERTY AND ADDRESS.		Rate: (/100ft)	Rate (*/100ft)
	(*),-, (*)		44.34	(ft)	(ft)			(/1001t)	7.0011
5,200,00	0.00	0.00	5,200,00	0.00	0.00	0.00	0.00	0.00	0.00
5,300.00	0.00	0.00	5,300,00	0.00	0.00	0.00	0.00	0.00	0.00
5,400.00	0.00	0.00	5,400.00	0.00	0.00	0.00	0.00	0.00	0.00
5.500.00	0.00		•						
5,500.00	0.00	0.00	5,500.00	0.00	0.00	0.00	0.00	0.00	0.00
5,600.00 5,660.00	0.00	0.00 0.00	5,600.00 5,660.00	0.00 0.00	0.00	0.00	0.00	0.00	0.00
5,700.00	0.80	320.49	5,700.00	0.22	-0.18	0.00 -0.21	0.00 2.00	0.00 2.00	0.00
5,800.00	2.80	320.49	5,799,94	2.64	-0.18 -2.18	-0.21 -2.54	2.00	2.00	0.00 0.00
			•						0.00
5,900.00	4.80	320.49	5,899.72	7.75	-6.39	-7.46	2.00	2.00	0.00
6,000.00	6.80	320.49	5,999.20	15.55	-12.82	-14.95	2.00	2.00	0.00
6,100.00	8.80	320.49	6,098.27	26.02	-21.45	-25.02	2.00	2.00	0.00
6,160.11	10.00	320.49	6,157.57	33.59	-27.70	-32.31	2.00	2.00	0.00
6,200.00	10.00	320.49	6,196.86	38.94	-32.11	-37.45	0.00	0.00	0.00
6,300.00	10.00	320.49	6,295.34	52.34	-4 3.16	-50.34	0.00	0.00	0.00
6,400.00	10.00	320.49	6,393.82	65.74	-54.21	-63.22	0.00	0.00	0.00
6,500.00	10.00	320.49	6,492.30	79.14	-65.26	-76,11	0.00	0.00	0.00
6,600.00	10.00	320.49	6,590.78	92.54	-76.31	-89.00	0.00	0.00	0.00
6,700.00	10.00	320.49	6,689.26	105.94	-87.35	-101.89	0.00	0.00	0.00
6,800.00	10.00	320.49	6,787.74	119.34	-98.40	-114,77	0.00	0.00	0.00
6,900.00	10.00	320.49	6,886.22	132.75	-109.45	-127.66	0.00	0.00	0.00
7,000.00	10.00	320.49	6,984.70	146.15	-120.50	-140.55	0.00	0.00	0.00
7,100.00	10.00	320.49	7,083.18	159.55	-131.55	-153.44	0.00	0.00	0.00
7,200.00	10.00	320.49	7,181.66	172.95	-142.60	-166.32	0.00	0.00	0.00
7.300.00	10.00	320.49	7,280.14	186.35	-153.65	-179.21	0.00	0.00	0.00
7,400.00	10.00	320.49	7,378.62	199.75	-164.70	-192.10	0.00	0.00	0.00
7,500.00	10.00	320.49	7,477.10	213.15	-175.75	-204.99	0.00	0.00	0.00
7,600.00	10.00	320.49	7,575.58	226.55	-186.80	-217.87	0.00	0.00	0.00
7,700.00	10.00	320.49	7,674.06	239.95	-197.85	-230.76	0.00	0.00	0.00
7,800.00	10.00	320.49	7,772.54	253,35	-208.90	-243.65	0.00	0.00	0.00
7,900.00	10.00	320.49	7,871.02	266.75	-219.95	-256.54	0.00	0.00	0.00
8,000.00	10.00	320.49	7,969.50	280.15	-231.00	-269.42	0.00	0.00	0.00
8,100.00	10.00	320.49	8,067.98	293.55	-242.05	-282.31	0.00	0.00	0.00
8,200.00	10.00	320,49	8,166.46	306.95	-253.10	-295.20	0.00	0.00	0.00
8,300,00	10.00	320.49	8,264.94	320.36	-264.14	-308.09	0.00	0.00	0.00
8,400.00	10.00	320.49	8,363.42	333.76	-275.19	-320.97	0.00	0.00	0.00
8,500.00	10.00	320.49	8,461.90	347.16	-286.24	-333.86	0.00	0.00	0.00
^8,600.00	10.00	320.49	8,560.38	360.56	-297.29	-346.75	0.00	0.00	0.00
8,700,00	10.00	320.49	8,658.86	373.96	-308.34	-359,64	0.00	0.00	0.00
8,800.00	10.00	320.49	8,757.34	387.36	-319.39	-372.52	0.00		
8,900.00	10.00	320.49	8,855.82	400.76	-319.39 -330.44	-372,52 -385.41	0.00	0.00 0.00	0.00
9,000.00	10.00	320.49	8,954.30	414.16	-330. 44 -341.49	-398.30	0.00	0.00	0.00
9,100.00	10.00	320.49	9,052.78	427.56	-352.54	-411.19	0.00	0.00	0.00
9,200.00	10.00	320.49	9,151.26	440.96	-363.59	-424.07	0.00	0.00	0.00
'									
9,300.00	10.00	320.49	9,249.74	454.36	-374.64	-436.96	0.00	0.00	0.00
9,400.00	10.00	320.49	9,348.22	467.76	-385.69	-449.85	0.00	0.00	0.00
9,500.00 9,600.00	10.00 10.00	320.49 320.49	9,446.70 9,545.18	481.16	-396.74	-462.74	0.00	0.00	0.00
9,700.00	10.00	320.49 320.49	9,545.18 9,643.66	494.56 507.97	-407.79	-475.62	0.00	0.00	0.00
1					-418.84	-488 .51	0.00	0.00	0.00
9,800.00	10.00	320.49	9,742.14	521.37	-429.89	-501.40	0.00	0.00	0.00
9,900.00	10.00	320.49	9,840.62	534.77	-440.94	-514.29	0.00	0.00	0.00
10,000.00	10.00	320.49	9,939.10		-451.98	-527.17	0.00	0.00	0.00
10,100.00	10.00	320.49	10,037.58	561.57	463.03	-540.06	0.00	0.00	0.00

CERTIFICATION CONTRACTOR CONTRACTOR OF THE CONTRACTOR C

Company: **ENGINEERING DESIGNS**

Project: PRD NM DIRECTIONAL PLANS (NAD 1983) STERLING SILVER MDP1 33-4 FED COM Well: STERLING SILVER MDP1 33-4 FED COM 175H

Wellbore: Design: WB00 Permitting Plan

Local Co-ordinate Reference: Well STERLING SILVER MDP1 33-4 FED 175H
TVD Reference: RKB=26.5' @ 3427.10ft
MD Reference: RKB=26.5' @ 3427.10ft
North Reference: Grid
Minimum C Well STERLING SILVER MDP1 33-4 FED COM

Survey Calculation Method: Minimum Curvature

Planned Survey	A Service on the Williams	LIFE THE STREET AND IN	A SANCORAL DESIGNATION OF THE SANCORAL	ised between a common that	14 / 114 SET 12 TOPIA ()-3.	A.J. T. B. B. Byenson	Francisco Contractor Contractor	Collection of the Collection o	Hera Carrier Park Three Car
I lamed Sulvey			ON THE REAL PROPERTY.	Hevineiyi	HERETERN .			THE FEBRUARY	NUTRAL PROPERTY.
Measured *			Vertical		1075 强制	Vertical	Doğleg	Build 🔭	Turn
i - \ → Depth → in	clination	Szimuth	, Depth :	+ń/-s	÷E/₩	Section :	,∵Rate J ₇ ,	Rate (°/100ft)	Rate
(ft) 5 - 1	1 (0)	$\mathcal{L}(\mathfrak{s}) \sim \mathcal{L}(\mathfrak{s})$	支 (ft)	(ft):	(ft)	(ft)()	(\$/100ft)	(°/100ft)\	(°/100ft)
10,176.62	10.00	320.49	10,113.04	571.84	-471.50	-549.94	0.00	0.00	0.00
1									ł
10,200.00	9.56	319.54	10,136.08	574.88	-474.05	-552.86	2.00	-1.87	-4.10
10,300.00 10,400.00	7.73 6.00	314.24 305.79	10,234.94 10,334.22	585.89 593.64	-484.26 -493.32	-563.40 -570.73	2.00 2.00	-1.84 -1.73	-5.30 -8.45
10,500.00	4.49	291.18	10,433.80	598.11	-501.20	-570.73 -574.84	2.00	-1.73 -1.50	-0.45 -14.61
10,600.00	3.52	265.76	10,533.57	599.29	-507.92	-575.72	2.00	-0.97	-25.42
10,700.00	3.55	232.86	10,633.39	597.20	-513.44	-573.37	2.00	0.03	-32.89
10,800.00	4.56	208.07	10,733.14	591.82	-517.78	-573.37 -567.81	2.00	1.01	-24.79
10,900.00	6.08	193.89	10,832.71	583.17	-520.92	-559.03	2.00	1.52	-14.18
11,000.00	7.82	185.66	10,931.98	571.26	-522.87	-547:04	2.00	1.74	-8.23
11,100.00	9.66	180.47	11,030.81	556.10	-523.60	-531.86	2.00	1.84	-5.18
11,118.11	10.00	179.74	11,048.65	553.01	-523.61	-528:77	2.00	1.88	-4.06
11,200.00	18.19	179.74	11,128.01	533.08	-523.52	-508.87	10.00	10.00	0.00
11,300.00	28.19	179.74	11,219.82	493.75	-523.34	-469.59	10.00	10.00	0.00
11,400.00	38.19	179.74	11,303.40	439.08	-523.09	-414.99	10.00	10.00	0.00
11,500.00	48.19	179.74	11,376.22	370.73	-522.78	-346.72	10.00	10.00	0.00
11,600.00	58.19	179.74	11,436.06	290.77	-522.41	-266.86	10.00	10.00	0.00
11,700.00	68.19	179.74	11,481.10	201.63	-522.00	-177.83	10.00	10.00	0.00
11,800.00 11,900.00	78.19 88.19	179.74 179.74	11,509.99 11,521.83	106.03 6.86	-521.57 -521.11	-82.34 16.70	10.00 10.00	10.00 10.00	0.00
11,913.56	89.54	179.74	11,522.10	-6.69	-521.05	30.24	10.00	10.00	0.00 0.00
12,000.00 12,100.00	89.54 89.54	179.74 179.74	11,522.79 11,523.58	-93.13 -193.13	-520.66 -520.20	116.57 216.45	0.00 0.00	0.00 0.00	0.00 0.00
12,200.00	89.54	179.74	11,524.38	-293.12	-519.74	316.32	0.00	0.00	0.00
12,300.00	89.54	179,74	11,525.17	-393.12	-519.28	416.19	0.00	0.00	0.00
12,400.00	89.54	179.74	11,525.96	-493.11	-518.83	516.06	0.00	0.00	0.00
12,500.00	89.54	179.74	11,526.76	-593.11	-518.37	615.94	0.00	0.00	0.00
12,600.00	89.54	179,74	11,527.55	-693.11	-517.91	715.81	0.00	0.00	0.00
12,700.00	89.54	179.74	11,528.35	-793.10	-517.45	815.68	0.00	0.00	0.00
12,800.00	89.54	179.74	11,529.14	-893.10	<i>-</i> 517.00	915.56	0.00	0.00	0.00
12,900.00	89.54	179.74	11,529.93	-993.09	-516.54	1,015.43	0.00	0.00	0.00
13,000.00	89.54	179.74	11,530.73	-1,093.09	-516.08	1,115.30	0.00	0.00	0.00
13,100.00	89.54	179.74	11,531.52	-1,193.08	-515.63	1,215.18	0.00	0.00	0.00
13,200.00	89.5 4	179.74 179.74	11,532.32	-1,293.08	-515.17	1,315.05	0.00	0.00	0.00
13,300.00 13,400.00	89.54 89.54	179.74 179.74	11,533.11 11,533.90	-1,393.08 -1,493.07	-514.71 -514.25	1,414.92 1,514.79	0.00 0.00	0.00 0.00	0.00 0.00
						•			
13,500.00	89.54 89.54	179.74 179.74	11,534.70 11,535.49	-1,593.07 -1,693.06	-513.80 -513.34	1,614.67	0.00 0.00	0.00 0.00	0.00
13,700.00	89.5 4 89.54	179.74	11,535.49	-1,793.06	-513.3 4 -512.88	1,714.54 1,814.41	0.00	0.00	0.00 0.00
13,800.00	89.54	179.74	11,537.08	-1,893.05	-512.42	1,914.29	0.00	0.00	0.00
13,900.00	89.54	179.74	11,537.88	-1,993.05	-511.97	2,014.16	0.00	0.00	0.00
14,000.00	89,54	179.74	11,538.67	-2,093.05	-511.51	2,114.03	0.00	0.00	0.00
14,100.00	89.54	179.74	11,539.46	-2,193.04	-511.05	2,213.90	0.00	0.00	0.00
14,200.00	89.54	179.74	11,540.26	-2,293.04	-510.60	2,313.78	0.00	0.00	0.00
14,300.00	89.54	179.74	11,541.05	-2,393.03	-510.14	2,413.65	0.00	0.00	0.00
14,400.00	89.54	179.74	11,541.85	-2,493.03	-509.68	2,513.52	0.00	0.00	0.00
14,500.00	89.54	179.74	11,542.64	-2,593.03	-509.22	2,613.40	0.00	0.00	0.00
14,600.00	89.54	179.74	11,543.43	-2,693.02	-508.77	2,713.27	0.00	0.00	0.00
14,700.00	89.54	179.74	11,544.23	-2,793.02	-508.31	2,813.14	0.00	0.00	0.00
14,800.00	89.54	179.74	11,545.02	-2,893.01	-507.85	2,913.01	0.00	0.00	0.00
14,900.00	89.54	179.74	11,545.82	-2,993.01	-507.39	3,012.89	0.00	0.00	0.00
15,000.00	89.54	179.74	11,546.61	-3,093.00	-506.94	3,112.76	0.00	0.00	0.00

A BOUND CONTROL OF THE PROPERTY OF THE PROPERT

Company
Project
Site
Well:

HOPSPP

ENGINEERING DESIGNS
PRD NM DIRECTIONAL PL
STERLING SILVER MDP1
STERLING SILVER MDP1 PRD NM DIRECTIONAL PLANS (NAD 1983) STERLING SILVER MDP1 33-4 FED COM

STERLING SILVER MDP1 33-4 FED COM 175H

Wellbore: / WB00

Design: Permitting Plan

y, calculation Method: Survey Calculation Method:

Local Co-ordinate Reference: Well STERLING SILVER MDP1 33-4 FED COM 175H

TVD:Reference: RKB=26.5' @ 3427.10ft

MD!Reference: RKB=26.5' @ 3427.10ft

North'Reference: Grid

Minimum Curvature

	Planned Survey	PLEASURE LINEARN	e Para Cologrador (Cortor da	THE CONTRACTOR	CONTROL AND	a in material construction	C ELITATE LIBERT	ALVERY, GERM V. 22, RIVEN	esta natultibae eta Apilat	er daudrusen flakkrijski spila in
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.,	20,200.00	89.54	179.74	11,587.91	-8,292.79	-483.16	8,306.15	0.00	0.00	0.00

Database:	Local Co-ordinate Reference:	Well STERLING SILVER MDP1 33-4 FED COM	1
		175H	d d
Company: ENGINEERING DESIGNS	TVD Reference:	RKB=26.5' @ 3427.10ft	1
Project: PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=26.5' @ 3427.10ft	ŧ,
Site: STERLING SILVER MDP1 33-4 FED COM	North Reference:	Grid	i r
Well: STERLING SILVER MDP1 33-4 FED COM 175H	Survey Calculation Method:	Minimum Curvature	4
			Į.
Wellbore: WB00			*
Design: A Permitting Plan		A STATE OF THE RESIDENCE OF THE STATE OF THE	į.

Planned Survey	THE STREET STREET, STR	aren datemen bened	TO THE THE LESS THE STREET	BARTISADIONOTE SHARING	COLOR CARRIED	Carried Constitution of the A	OF P. LET THE SQUEET SPICE SET OF THE SAME	ns respectively.	BORDONAN , BUT ROTHLING WILE
					COMPANIE				
Measured	PROFESSION AND ADMINISTRATION OF THE PARTY O		Vertical		Party State	Vertical	Dogleg	Build *	Turn
Depth Inc	clination 👢 🕽	Azimuth :	⊘Depth	+N/-S = 3.4	+E/-W	Section	Rate	Rate.	Rate
(ft)"			(ft).	(ft)	(ft)	(ft)	(°/100ft); (°	/100ft) 🥌 👔	(°/100ft):
20.300.00	89.54	179.74	11 500 70	9 202 79	400.70	R 400 00		ADDRESS ASA DA	MACHEN CONTROL
20,300.00	89.54 89.54	179.74	11,588.70 11,589.50	-8,392.78 -8,492.78	-482.70 -482.24	8,406.02	0.00 0.00	0.00 0.00	0.00
20,400.00	09.54	179.74	11,569.50	-0,492.70	-402.24	8,505.90	0.00	0.00	0.00
20,500.00	89.54	179.74	11,590.29	-8,592.77	-4 81.79	8,605.77	0.00	0.00	0.00
20,600.00	89.54	179.74	11,591.08	-8,692.77	-481.33	8,705.64	0.00	0.00	0.00
20,700.00	89.54	179.74	11,591.88	-8,792.77	-480.87	8,805.51	. 0.00	0.00	0.00
20,800.00	89.54	179.74	11,592.67	-8,892.76	-480.41	8,905.39	0.00	0.00	0.00
20,900.00	89.54	179.74	11,593.47	-8,992.76	-479.96	9,005.26	0.00	0.00	0.00
21,000.00	89.54	179.74	11,594.26	-9,092.75	-479.50	9,105.13	0.00	0.00	0.00
21,100.00	89.54	179.74	11,595.06	-9,192.75	-479.04	9,205.01	0.00	0.00	0.00
21,200.00	89.54	179.74	11,595.85	-9,292 <i>.</i> 74	-478.58	9,304.88	0.00	0.00	0.00
21,300.00	89.54	179.74	11,596.64	-9,392.74	-478.13	9,404.75	0.00	0.00	0.00
21,400.00	89.54	179.74	11,597.44	-9,492.74	-477.67	9,504.62	0.00	0.00	0.00
21,500.00	89.54	179.74	11,598.23	-9,592.73	-477.21	9,604.50	0.00	0.00	0.00
21,600.00	89.54	179.74	11,599.03	-9,692.73	-476.76	9,704.37	0.00	0.00	0.00
21,700.00	89.54	179.74	11,599.82	-9,792.72	-476.30	9,804.24	0.00	0.00	0.00
21,800.00	89.54	179,74	11,600.61	-9,892.72	-475.84	9,904.12	0.00	0.00	0.00
21,900.00	89.54	179.74	11,601.41	-9,992.71	-475.38	10,003.99	0.00	0.00	0.00
22,000.00	89.54	179.74	11,602.20	-10,092.71	-474.93	10,103.86	0.00	0.00	0.00
22,100.00	89.54	179.74	11,603.00	-10,192.71	-474.47	10,203.74	0.00	0.00	0.00
22,200.00	89.54	179.74	11,603.79	-10,292.70	-4 74.01	10,303.61	0.00	0.00	0.00
22,300.00	89.54	179.74	11,604.58	-10,392.70	-473.55	10,403.48	0.00	0.00	0.00
22,364.89	89.54	179.74	11,605.10	-10,457.59	-473.26	10,468.29	0.00	0.00	0.00
	<u>'</u>								

Design Targets Target Name hit/miss target Dip	Angle Di	p Dir.	(n)	+N/S (ft)	+E/-W	Northing; ⊭(usft)	Easting (usft)	seatitude).	Longitude
FTP (Sterling Silver - plan hits target center - Point	0.00	0.00	11,522.10	-6.69	-521.05	461,642.26	713,035.31	32° 16′ 4.467958 N	103° 46' 40.189988
PBHL (Sterling Silver - plan hits target center - Point	0.00	0.00	11,605.10	-10,457.59	-473.26	451,191.98	713,083.10	32° 14' 21.054220 N	103° 46' 40.263134

Plan Annotations & Measured Depth (ft)	Vertical Depth (ft)	Local Coords +N/-S	nates +EI-W: - (ft)	Comment:
5,660.00	5,660.00	0.00	0.00	Build 2.00°/100'
6,160.11	6,157.57	33.59	-27.70	Hold 10.00° Tangent
10,176.62	10,113.04	571.84	-4 71.50	Turn 2.00°/100'
11,118.11	11,048.65	553.01	-523.61	KOP, Build 10.00°/100'
11,913.56	11,522.10	-6.69	-521.05	Landing Point
22,364.89	11,605.10	-10,457.59	-473.26	TD at 22364.89' MD



Project: PRD NM DIRECTIONAL PLANS (NAD 1983)
Site: STERLING SILVER MDP1 33-4 FED COM

Well: STERLING SILVER MDP1 33-4 FED COM 175H

Wellbore: WB00

Design: Permitting Plan

PROJECT DETAILS: NM DIRECTIONAL PLANS (NAD 1983)

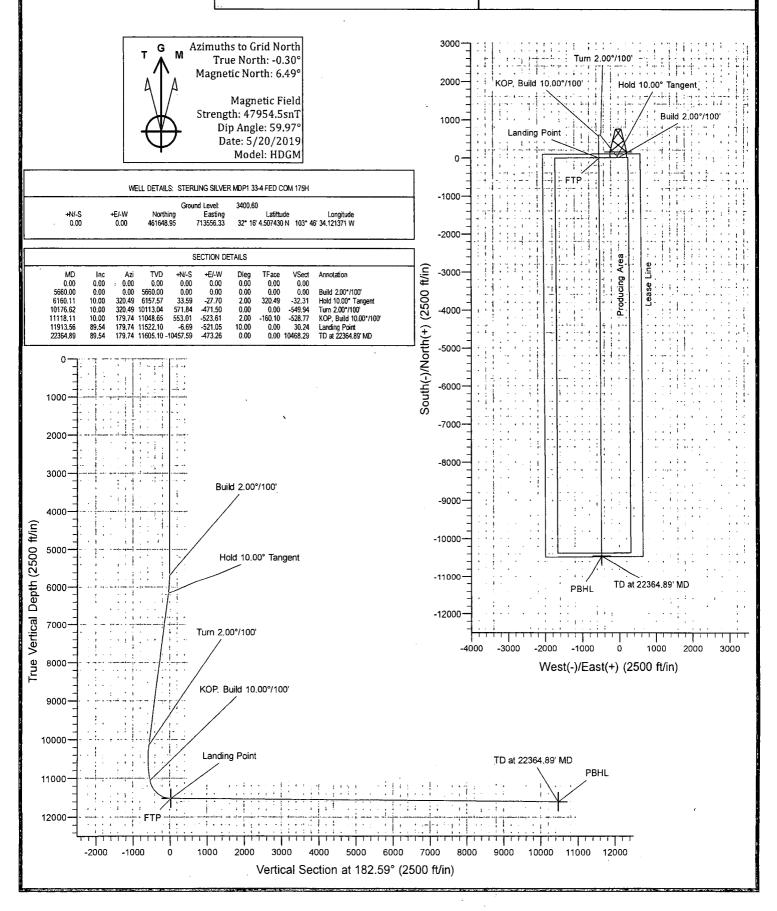
Geodetic System: US State Plane 1983

Datum: North American Datum 1983

Ellipsoid: GRS 1980

Zone: New Mexico Eastern Zone

System Datum: Mean Sea Level



1. Geologic Formations

TVD of target	11605'	Pilot Hole Depth	N/A
MD at TD:	22364'	Deepest Expected fresh water:	488'

Delaware Basin

Formation	TVD - RKB	Expected Fluids
Rustler	488	
Salado	833	Brine
Castile	2,760	Brine
Lamar/Delaware	4,269	Brine
Bell Canyon	4,293	Oil/Gas
Cherry Canyon	5,188	Oil/Gas
Brushy Canyon	6,469	Losses
Bone Spring	8,074	Oil/Gas
1st Bone Spring	9,139	Oil/Gas
2nd Bone Spring	9,772	Oil/Gas
3rd Bone Spring	10,937	Oil/Gas
Wolfcamp	11,404	Oil/Gas

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

2. Casing Program

								_	Buoyant	Buoyant
Bala esta das	Casing In	têrval.	Csg. Size	We ight.	7		SF-AD	00.5	Body SF	Joint SF
Hole Size (in)	From (ft)	cTo (ft)	_¬(in)-,'	(lbs)	Grade	Conn.	Collapse	SF Burst	Tension	Tension
17.5	0	538	13.375	_54.5	J-55	BTC	1.125	1.2	1.4	1.4
12.25	0	4319	9.625	43.5	L-80	BTC	1.125	1.2	1.4	1.4
8.5	0	11018	7.625	26.4	L-80 HC	SF (0 ft to 4000 ft) FJ (4000 ft to 11018 ft)	1.125	1.2	1.4	1.4
6.75	, 0	22364	5.5	20	P-110	DQX	1.125	1.2	1.4	1.4
					_		SF Value	s 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.

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	*7
justification (loading assumptions, casing design criteria).	Y
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching	T 7
the collapse pressure rating of the casing?	Y
	7.7.1.2.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.
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?	
	1200
Is well located in R-111-P and SOPA?	<u>Y</u>
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?	
	N. 7. C. 17. C.
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

3. Cementing Program

Casing String	#Sks	WŁ.	Yld (ft3/sack)	(H20 (gal/sk)	500# Comp. Strength (hours)	Slurry Description	
Surface (Lead)	N/A	N/A	N/A	N/A	N/A	N/A	
Surface (Tail)	573	14.8	1.33	6.365	5:26	Class C Cement, Accelerator	
Intermediate (Lead)	924	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)	211	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)	354	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)	868	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	538	100%
Intermediate (Lead)	0	3819	50%
Intermediate (Tail)	3819	4319	20%
Intermediate II 1st Stage (Lead)	N/A	N/A	N/A
Intermediate II 1st Stage (Tail)	6719	11018	5%
Intermediate II 2nd Stage (Lead)	N/A	N/A	N/A
Intermediate II 2nd Stage (Tail)	0	6719	25%
Production (Lead)	N/A	N/A	- N/A
Production (Tail)	10518	22364	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	Type			Tested to:	
		3M	Annul	ar	✓	70% of working pressure	
12.25" Hole	13-5/8"		Blind R	am	✓		
12.23 11016	13-3/6	3M	Pipe Ra	am		250: / 2000:	
		JIVI	Double I	Ram	✓	250 psi / 3000 psi	
			Other*				
	13-5/8"	5M	Annular		✓	70% of working pressure	
8.5" Hole			Blind Ram		✓		
8.5 n oie		5M	Pipe Ram			250: / 5000:	
			Double Ram		✓	250 psi / 5000 psi	
			Other*				
			5M	Annul	ar	✓	70% of working pressure
6.75" Hole	12 5/0"		Blind R	Blind Ram			
	13-5/8"	1014	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 does not penetrate into the Wolfcamp.
- Full BOP test will be required prior to drilling any production hole.

5. Mud Program

De	pth		Weight	₹ <i>7</i> 9	Water Loss
From (ft)	To (ft)	Type ((ppg)	Viscosity	water Loss
0	538	Water-Based Mud	8.6-8.8	40-60	N/C
538	4319	Saturated Brine- Based Mud	9.8-10.0	35-45	N/C
4319	11018	Water-Based or Oil- Based Mud	8.0-9.6	38-50	N/C
11018	22364	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.

1 77 71 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1	TOT TOTO /2 CT / CT . / Y Z !
What will be used to monitor the loss or gain of fluid?	1 D)/I/N/II \ Lotoo/\/\/anioI \ /\omegamerame
I What will be used in illuming the loss of ball of filling	I P V I/IVII I I MICA/ V ISHAI IMMAHATING
i will will be ased to illulated the loss of gall of flata.	1 1 4 1/141D 1 0100/ 4 ISHAI IMOIIIICIIIIE

6. Logging and Testing Procedures

Logg	ing, 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	7242 psi
Abnormal Temperature	No
BH Temperature at deepest TVD	173°F

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.

Hyd	rogen Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If				
H2S	H2S is detected in concentrations greater than 100 ppm, the operator will comply with the				
prov	risions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured				
valu	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 four 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: 1683.6 bbls.

Attachments

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

9. Company Personnel

Name	<u>Title</u>	Office Phone	Mobile Phone
Ben Pelton	Drilling Engineer	713-497-2379	701-690-8645
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	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:

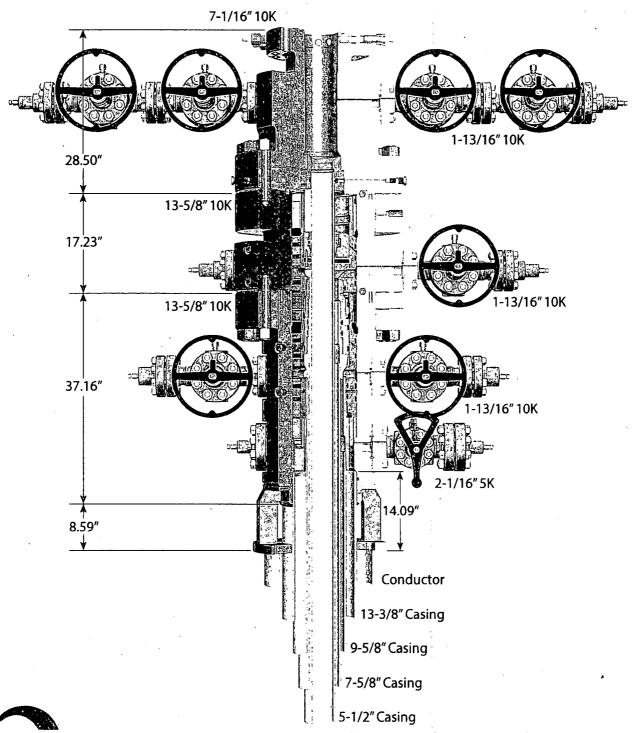
- a. SICP
- b. Pit gain
- c. Time
- 6. Regroup and identify forward plan

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







1615045

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

PERFORMANCE DATA

TMK UP TORQ™ DQW

5.500 in

20.00 lbs/ft

P110 CY

Technical Data Sheet

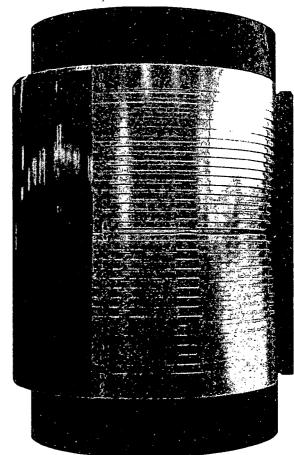
Nom. Pipe Body Area

Tubular Parameters	3 ,				
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	lin	•	•	_'

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	°/ 100 ft		

5.828

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

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PERFORMANCE DATA

TMK UP DQX Technical Data Sheet

5,500 in

20.00 lbs/ft

P-110

110,000

125,000

641,000

729,000

12,600

11,100

psi

psi

lbs

lbs

psi

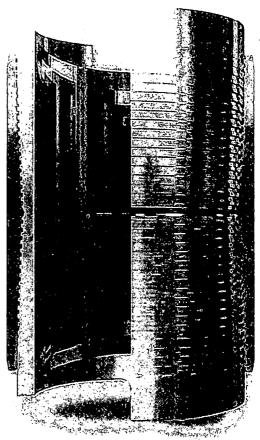
psi

Tubular Parameters			
Size	5.500	in	Minimum Yield
Nominal Weight	20.00	lbs/ft	Minimum Tensile
Grade	P-110		Yield Load
PE Weight	19.81	lbs/ft	Tensile Load
Wall Thickness	0.361	in	Min. Internal Yield Pressure
Nominal ID	4.778	in	Collapse Pressure
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	in²	
Tension Efficiency	100 0	%	
Compression Efficiency	100.0	%	
Yield Load In Tension	641,000	ibs	
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



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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
CONNECTION DADAMETERS		Min. Internal Yield Pressure (psi)	12 640
CONNECTION PARAMETERS		Collapse Pressure, (psi)	11 110
Connection OD (inch)	6.05		
Connection ID, (inch)	4.778	(metad freshre	(
Make-Up Loss, (inch)	4.122		
Connection Critical Area, (sq inch)	5.828		
Yield Strength In Tension, (kibs)	641	是一种的一种。	
Yeld Strength in Compression, (klbs)	641		
Tension Efficiency	100%		的情况是对
Compression Efficiency	100%	Same and the same	
Min. Internal Yield Pressure, (psi)	12 640	一一大小小小小小小小小小小小小小小小小小小小小小小小小小小小小小小小小	
Collapse Pressure, (psi)	11 110	En et March and a land	2 19 1 1 0 3 made
Uniaxial Bending (deg/100ft)	91 7		The state of
MAKE UD TODOUES			
MAKE-UP TORQUES			1. 1
Yield Torque, (ft-lb)	20 600	External Prossure	
Minimum Make-Up Torque, (ft-lb)	11 600		
Optimum Make-Up Torque, (ft-lb)	12 900	•	
Maximum Make-Up Torque, (ft-lb)	14 100		
	Cou	pling Length	
Wall Thickness	Make-Up Loss	Box Critical Cross Section	
		Cross section	
	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		
- - - - - - - - - -			
0.0 Pp			\$ 8
원년 \	ross Section		Diameter
		<u> </u>	

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PERFORMANCE DATA

TMK UP SF TORQ™
Technical Data Sheet

Nom. Pipe Body Area

5.500 in

in²

5.828

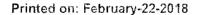
20.00 lbs/ft

P110 HC

Tubular Parameters	5				
Size	5.500	in	Minimum Yield	110,000	psi
Nominal Weight	20.00	lbs/ft	Minimum Tensile	125,000	psi
Grade	P110 HC		Yieid Load	641.000	lbs
PE Weight	19.81	lbs/ft	Tensile Load	728,000	lbs
Wall Thickness	0.361	lin	Min. Internal Yield Pressure	12,640	psi
Nominal ID	4.778	in	Collapse Pressure	12,780	psi
Drift Diameter	4.653	lin `		•	

Connection Parameters					
Connection OD	5.777	in			
Connection ID	4.734	in			
Make-Up Loss	5.823	in			
Critical Section Area	5.875	in²			
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	ŕt-lbs		





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