Form 3160-5 (June 2015)

# **UNITED STATES** DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 20

SUNDRY NOTICES AND REPORTS ON WELLS  Do not use this form for proposals to drill or to re-enter an							
abandoned we	II. Use form 3160-3 (AP	D) for such	proposals.		6. If Indian, Allotte	e or Trib	e Name
SUBMIT IN	7. If Unit or CA/A	greement	Name and/or No.				
Type of Well     ☐ Gas Well ☐ Ott	8. Well Name and I TIME CC 6_7 I		L COM 43H				
2. Name of Operator OXY USA INCORPORATED		9. API Well No. 30-015-45570	6-00-X1	<u> </u>			
3a. Address 5 GREENWAY PLAZA SUITE HOUSTON, TX 77046-0521	No. (include area code) 350-4997		10. Field and Pool PURPLE SAG		atory Area LFCAMP (GAS)		
4. Location of Well (Footage, Sec., 7	., R., M., or Survey Description	1)			11. County or Paris	sh, State	
Sec 6 T24S R29E 65FNL 118 32.254032 N Lat, 104.019058					EDDY COUN	ITY, NM	1
12. CHECK THE AI	PPROPRIATE BOX(ES)	TO INDIC	ATE NATURE OF	F NOTICE,	REPORT, OR O	THER	DATA
TYPE OF SUBMISSION			TYPE OF	ACTION			
Notice of Intent	☐ Acidize	′ <u> </u>	eepen	☐ Product	ion (Start/Resume)		Water Shut-Off
	☐ Alter Casing	<b>(</b> ) H	ydraulic Fracturing	☐ Reclam	ation		Well Integrity
☐ Subsequent Report	☐ Casing Repair	_ D N	ew Construction	☐ Recomp	olete		Other
☐ Final Abandonment Notice	☐ Change Plans	_	lug and Abandon		arily Abandon	PE	ange to Original A
	Convert to Injection	□ P	lug Back	☐ Water I	Disposal .		
13. Describe Proposed or Completed Op If the proposal is to deepen direction: Attach the Bond under which the wo following completion of the involved testing has been completed. Final Al determined that the site is ready for f	ally or recomplete horizontally, rk will be performed or provide l operations. If the operation re pandonment Notices must be fi	give subsurfa the Bond No sults in a mult	ce locations and measur on file with BLM/BIA. iple completion or recor	ed and true ve Required sul mpletion in a r	rtical depths of all pe osequent reports must new interval, a Form	rtinent m be filed v 3160-4 m	arkers and zones. within 30 days ust be filed once
OXY USA Inc. respectfully rec for API No. 30-015-45576 fror Due to spacing changes the w Crossing Bone Spring)and no	zen will be urilled and con	ipietea in tr	and change the wel I to the Width CC 6 ie 1st Bone Spring	I name and -7 Federal ( (Pierce	number Com 15H. (32	300	55
Attached you will find updated	:			n une n	a nema	<b>.</b>	
Drill Plan			Carlsbac	irici	u VIIIC		
Connection Specs BOP Diagram			OCI	D Art	esia 💮		
Directional Plan and Plot							
H2S Contingency Information					•	JUN	<b>2</b> 5 2019
14. I hereby certify that the foregoing is		404500			UISIR	IICI II-4	ARIESIAO.C.D.
	Electronic Submission # For OXY USA	A INCORPOR	RATED, sent to the (	Carlsbad			
	nmitted to AFMSS for proc	essing by P	RISCILLA PEREZ on	04/25/2019	· .		
Name (Printed/Typed) SARAH E	CHAPMAN		Title REGULA	ATORY SPI	ECIALIST		<u> </u>
Signature (Electronic S	Submission)		Date 04/16/20	110	•		
-0		OR FEDER	RAL OR STATE (		SE		
		<del> </del>					
_Approved By_NDUNGU KAMAU_	<b></b> _		TitlePETROLEU	JM ENGINE	ER		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.

Office Carlsbad

# Additional data for EC transaction #461592 that would not fit on the form

32. Additional remarks, continued

Spud Rig Data Sheet

#### Revisions to Operator-Submitted EC Data for Sundry Notice #461592

#### **Operator Submitted**

Sundry Type:

**APDCH** 

NOI

Lease:

NMNM77018

NOI

NMNM77018

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

**BLM Revised (AFMSS)** 

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:

Location: State:

County:

**EDDY COUNTY** 

Field/Pool:

PURPLE SAGE WOLFCAMP

Well/Facility:

TIME CC 6-7 FEDERAL COM 43H Sec 6 T24S R29E NENE 65FNL 1181FEL

32.254030 N Lat, 104.019057 W Lon

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

NM

EDDY

PURPLE SAGE-WOLFCAMP (GAS)

TIME CC 6\_7 FEDERAL COM 43H Sec 6 T24S R29E 65FNL 1181FEL 32.254032 N Lat, 104.019058 W Lon

# PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

**OPERATOR'S NAME:** Oxy USA Incorporated

LEASE NO.: | NMNM13996

WELL NAME & NO.: | Width CC 6\_7 Federal Com 15H

**SURFACE HOLE FOOTAGE:** 65'/N & 1181'/E **BOTTOM HOLE FOOTAGE** 20'/S & 2260'/E

**LOCATION:** Section 6, T24S, R29E, NMPM **COUNTY:** Eddy County, New Mexico

 $\mathbf{COA}$ 

H2S	← Yes	€ No	
Potash	• None	Secretary	∩ R-111-P
Cave/Karst Potential	C Low	• Medium	← High
Variance	None	Flex Hose	Other
Wellhead	Conventional	^ Multibowl	<sup>™</sup> Both
Other	☐ 4 String Area	☐ Capitan Reef	□ WIPP
Other	Fluid Filled	Cement Squeeze	☐ Pilot Hole
Special Requirements	∇ Water Disposal	<b>▼</b> COM	☐ Unit

#### ALL PREVIOUS COAs STILL APPLY.

#### A. CASING

#### **Casing Design**

- 1. The 10-3/4 inch surface casing shall be set at approximately \_ feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite and above the salt) and cemented to the surface.
  - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
  - b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8** hours or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
  - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.

- d. If cement falls back, remedial cementing will be done prior to drilling out that string.
- 2. The minimum required fill of cement behind the 7-5/8 inch intermediate casing is:

#### **Option 1 (Single Stage):**

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

#### **Option 2:**

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

- a. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
- b. Second stage above DV tool:
  - Cement to surface. If cement does not circulate, contact the appropriate BLM office.
    - Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.
- ❖ In Medium Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.

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 8% - additional cement might be required.

3. The minimum required fill of cement behind the 5-1/2 inch production casing is:

#### **Option 1 (Single Stage):**

Cement should tie-back at least 200 feet into previous casing string.
 Operator shall provide method of verification. Excess calculates to 19%
 additional cement might be required.

#### Option 2:

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

- a. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
- b. Second stage above DV tool:
  - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

#### **B. 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 **3000 (3M)** 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 3000 (3M) 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.

#### C. 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
  - ✓ 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 2<sup>nd</sup> 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

Intent As Drille	ed					
API# 30-015-45576				,		
Operator Name:			Property Name:			Well Number
DYY USA Inc.	1		width CC 6-7	r-ederal	(on	15H
					•	
Kick Off Point (KOP)					·	,
UL Section Township	Range Lot 1	Feet 60	From N/S Fee NOPH 1	et From 260 CM	E/W County	Ч
132. 2541016		Longitud	le .0225481		NAD NAD	83
First Take Point (FTP)						
	Range Lot 2	Feet  00	From N/S Fee	et From 260 la	E/W County	1
22.253964		Longitud			NAD	1583
Last Take Point (LTP)						
UL Section Township 245	Range Lot	Feet   0 6	From N/S Feet SWID 2260	From E/W	County EDDM	
132. 2252452		Longitud			NAD J	33
			· ·			
Is this well the defining we	ell for the Horiz	ontal Sp	acing Unit?			
Is this well an infill well?		]				
If infill is yes please provid Spacing Unit.	le API if availab	ile, Opera	ator Name and well	number for (	Defining well fo	r Horizontal
API#			·			
Operator Name:	,		Property Name:		· · · · · · · · · · · · · · · · · · ·	Well Number
			· · · · · · · · · · · · · · · · · · ·			

KZ 06/29/2018

1. Geologic Formations

TVD of target	7650'	Pilot Hole Depth	N/A
MD at TD:	17973'	Deepest Expected fresh water:	109'

#### **Delaware Basin**

Formation	TVD - RKB	<b>Expected Fluids</b>
Rustler	109	
Salado	540	Salt
Castile	1,307	Salt
Lamar/Delaware	2,772	Oil/Gas/Brine
Bell Canyon	2,813	Oil/Gas/Brine
Cherry Canyon	3,681	Oil/Gas/Brine
Brushy Canyon	4,916	Losses
Bone Spring	6,504	Oil/Gas
1st Bone Spring	7,476	Oil/Gas

<sup>\*</sup>H2S, water flows, loss of circulation, abnormal pressures, etc.

#### 2. Casing Program

	•								Buoyant	Buoyant
Hole Size (in)	Casing Int	erval	Csg. Size	Weight			SF.	SF Burst	Body SF	Joint SF
Hole Size (m)	From (ft)	To (ft)	(in).	(lbs)	Grade	Com	La Collapse	or burst	Tension	Tension
14.75	0	480	10.75	40.5	J-55	BTC	1.125	1.2	1.4	1.4
9.875	0	7327	7.625	26.4	L-80 HC	BTC	1.125	1.2	1.4	1.4
6.75	0	17973	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.			
Is premium or uncommon casing planned? If yes attach casing specification sheet.	Y		
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y		
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y		
Is well located within Capitan Reef?	N		
If yes, does production casing cement tie back a minimum of 50' above the Reef?	11		
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 <sup>rd</sup> string cement tied back			
500' into previous casing?	and the second s		
Is well located in R-111-P and SOPA?	N		
If yes, are the first three strings cemented to surface?			
Is 2 <sup>nd</sup> string set 100' to 600' below the base of salt?			
	METET TERMINE		
Is well located in high Cave/Karst?	N		
If yes, are there two strings cemented to surface?			
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?			
Is well located in critical Cave/Karst?	N		
If yes, are there three strings cemented to surface?			

# 3. Cementing Program

Casing String	#Sks	Wt. (lb/gal)	Yld (ft3/sack)	H20 (gāl/sk)	500# Comp Strength (hours)	Slurry Description	
Surface (Lead)	N/A	N/A	N/A	N/A	N/A	N/A	
Surface (Tail)	388	14.8	1.33	6.365	5:26	Class C Cement, Accelerator	
Intermediate 1st Stage (Lead)	N/A	N/A	N/A	N/A	N/A	N/A	
Intermediate 1st Stage (Tail)	288	13.2	1.65	8.640	11:54	Class H Cement, Retarder, Dispersant, Salt	
Intermediate 2nd Stage (Tail Shurry) to be pumped as Bradenhead Squeeze from surface, down the Intermediate annulus							
Intermediate 2nd Stage (Lead)	N/A	N/A	N/A	N/A	N/A	N/A	
Intermediate 2nd Stage (Tail)	649	12.9	1.92	10.41	23:10	Class C Cement, Accelerator	
Production (Lead)	N/A	N/A	N/A	N/A	N/A	N/A	
Production (Tail)	817	13.2	1.38	6.686	3:39	Class H Cement, Retarder, Dispersant, Salt	

Casing String	Top (ft)	Bottom (ft)	% Excess
Surface (Lead)	N/A	N/A	N/A
Surface (Tail)	0	480	100%
Intermediate 1st Stage (Lead)	N/A	N/A	N/A
Intermediate 1st Stage (Tail)	5274	7327	5%
Intermediate 2nd Stage (Lead)	N/A	N/A	N/A
Intermediate 2nd Stage (Tail)	0	5274	10%
Production (Lead)	N/A	N/A	N/A
Production (Tail)	6827	179.73	20%

#### 4. Pressure Control Equipment

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Type			Tested to:
			Annula	r	<b>√</b>	70% of working pressure
0.075911-1-	13-5/8"		Blind Ra	ım	<b>√</b>	-
9.875" Hole	13-3/8	3M	Pipe Ram			250: / 2000:
			Double Ram		<b>✓</b>	250 psi / 3000 psi
			Other*			
		3M	Annula	r	<b>*</b>	70% of working pressure
/ 75U II.1.	13-5/8"		Blind Ra	ım	✓	
6.75" Hole		234	Pipe Ra	Pipe Ram		250 mg; / 2000 mg;
		. 3M	Double Ram		✓	250 psi / 3000 psi
			Other*			

<sup>\*</sup>Specify if additional ram is utilized.

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 mu	ltibowl or a unionized multibowl wellhead system will be employed. The wellhead
and co	onnection to the BOPE will meet all API 6A requirements. The BOP will be tested
per O	nshore Order #2 after installation on the surface casing which will cover testing
requir	ements for a maximum of 30 days. If any seal subject to test pressure is broken the
syster	n 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
1	prior to cementing surface casing as discussed with the BLM on October 8, 2015.
	ttached 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	17.	
From (ft)	To (ft).	туре	(ppg)	Viscosity	Water Loss
0	480	Water-Based Mud	8.6-8.8	40-60	N/C
480	7327	Saturated Brine- Based or Oil-Based Mud	8.0-10.0	35-45	N/C
7327	17973	Water-Based or Oil- Based Mud	8.0-9.6	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	PVT/MD Totco/Visual Monitoring
of fluid?	

#### 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 Completion Report and submitted to the BLM.								
No	Logs are planned based on well control or offset log information.								
No	Drill stem test? If yes, explain								
No	Coring? If yes, explain								
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	3819 psi
Abnormal Temperature	No
BH Temperature at deepest TVD	142°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.

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 four well pad in batch by section: all surface sections,	
intermediate sections and production sections. The wellhead will be	1
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: 1221.3 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
Edgar Diaz-Aguirre	Drilling Engineer	713-552-8594	713-550-2699
William Turner	Drilling Engineer Supervisor	713-350-4951	661-817-4586
Simon Benavides	Drilling Superintendent	713-522-8652	281-684-6897
John Willis	Drilling Manager	713-366-5556	713-259-1417

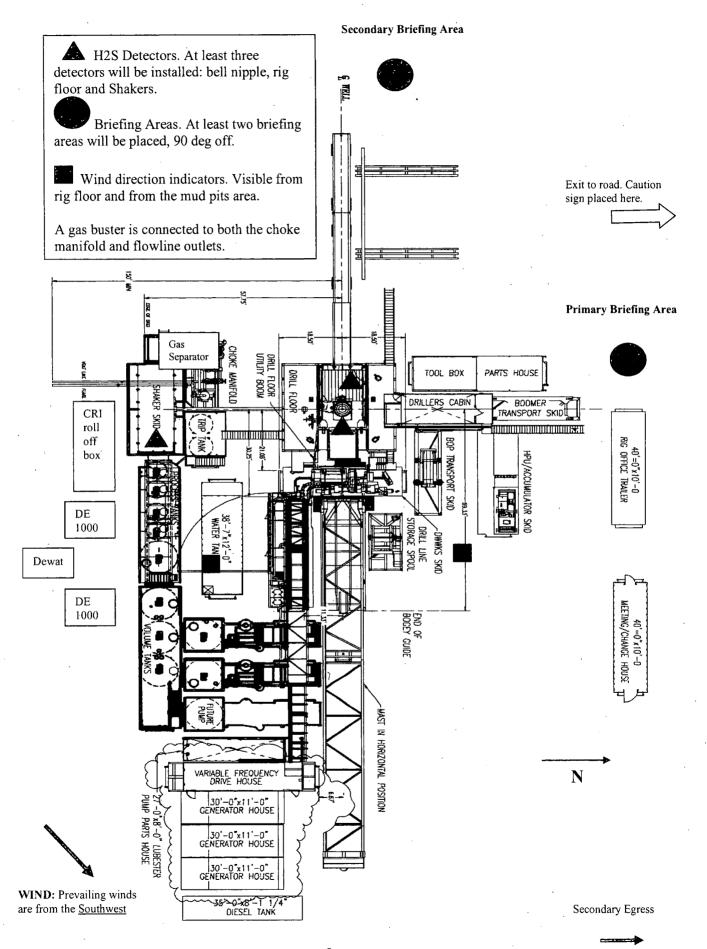


# Permian Drilling Hydrogen Sulfide Drilling Operations Plan Width CC 6-7 Federal Com 15H

Open drill site. No homes or buildings are near the proposed location.

#### 1. Escape

Personnel shall escape upwind of wellbore in the event of an emergency gas release. Escape can take place through the lease road on the Southeast side of the location. Personnel need to move to a safe distance and block the entrance to location. If the primary route is not an option due to the wind direction, then a secondary egress route should be taken.



## OXY USA Inc APD ATTACHMENT: SPUDDER RIG DATA

OPERATOR NAME / NUMBER: OXY USA Inc

#### 1. SUMMARY OF REQUEST:

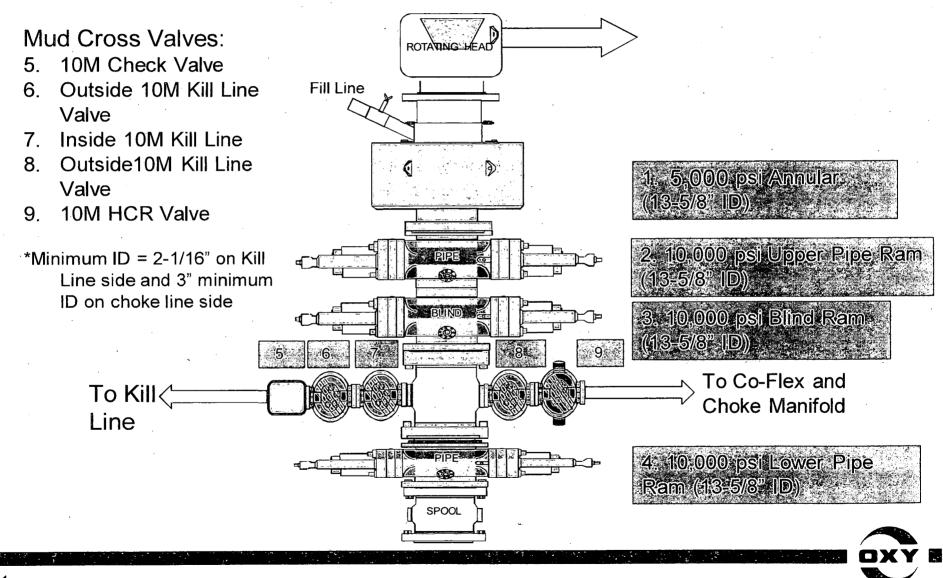
Oxy USA respectfully requests approval for the following operations for the surface hole in the drill plan:

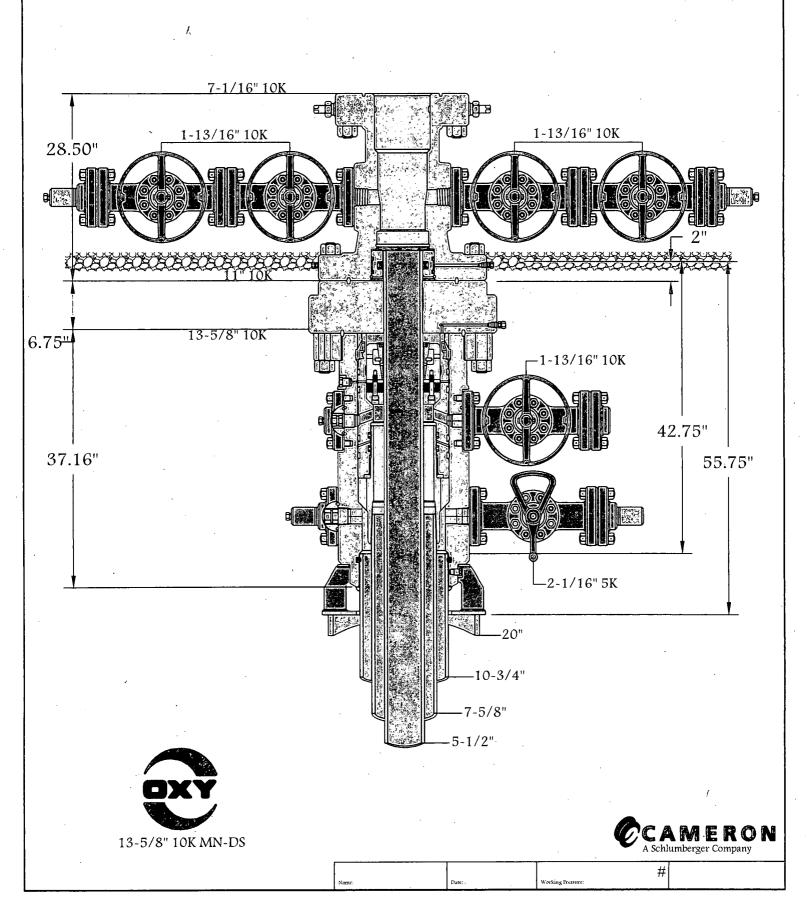
1. Utilize a spudder rig to pre-set surface casing for time and cost savings.

#### 2. Description of Operations

- 1. Spudder rig will move in to drill the surface hole and pre-set surface casing on the well.
  - a. After drilling the surface hole section, the spudder rig will run casing and cement following all of the applicable rules and regulations (OnShore Order 2, all COAs and NMOCD regulations).
  - **b.** The spudder rig will utilize fresh water-based mud to drill the surface hole to TD. Solids control will be handled entirely on a closed loop basis. No earth pits will be used.
- 2. The wellhead will be installed and tested as soon as the surface casing is cut off and the WOC time has been reached.
- 3. A blind flange at the same pressure rating as the wellhead will be installed to seal the wellbore. Pressure will be monitored with needle valves installed on two wingvalves.
  - a. A means for intervention will be maintained while the drilling rig is not over the well.
- 4. Spudder rig operations are expected to take 2-3 days per well on the pad.
- 5. The BLM will be contacted and notified 24 hours prior to commencing spudder rig operations.
- **6.** Drilling operations will begin with a larger rig and a BOP stack equal to or greater than the pressure rating that was permitted will be nippled up and tested on the wellhead before drilling operations resume on each well.
  - **a.** The larger rig will move back onto the location within 90 days from the point at which the wells are secured and the spudder rig is moved off location.
  - **b.** The BLM will be contacted / notified 24 hours before the larger rig moves back on the pre-set locations.
- 7. Oxy will have supervision on the rig to ensure compliance with all BLM and NMOCD regulations and to oversee operations.
- **8.** Once the rig is removed, Oxy will secure the wellhead area by placing a guard rail around the cellar area.

# 5/10M BOP Stack





# OXY

PRD NM DIRECTIONAL PLANS (NAD 1983) Width CC 6\_7 Width CC 6\_7 Federal Com 15H

Wellbore #1

Plan: Permitting Plan

# **Standard Planning Report**

11 April, 2019

#### Оху

#### Planning Report

HOPSPP

Company: **ENGINEERING DESIGNS** 

Project: Site: PRD NM DIRECTIONAL PLANS (NAD 1983)

Width CC 6\_7

Width CC 6\_7 Federal Com 15H

Wellbore:∵, Wellbore #1 Design: Permitting Plan Local Co-ordinate Reference

TVD Reference: MD Reference:

North Reference: Survey Calculation Method Well Width CC 6\_7 Federal Com 15H

RKB=26.5' @ 2986.50ft RKB=26.5' @ 2986.50ft

Grid

Minimum Curvature

PRD NM DIRECTIONAL PLANS (NAD 1983)

Map System: Geo Datum:

Map Zone:

US State Plane 1983

North American Datum 1983 New Mexico Eastern Zone

System Datum:

Mean Sea Level

Using geodetic scale factor

Width CC 6\_7

Site Position:

Northing:

456,291.88 usft

Latitude:

32° 15' 14.510911 N

From:

Map

Longitude:

Easting:

638,489.93 usft

**Position Uncertainty:** 

Slot Radius:

13.200 in

**Grid Convergence:** 

104° 1' 8.606765 W

0.17

Width CC 6\_7 Federal Com 15H

**Well Position** 

Wellbore

+N/-S +E/-W 0.00 ft 0.00 ft

2.00 ft

Northing: Easting:

456,291.88 usft 638,489,93 usft Latitude: Longitude: 32° 15' 14.510911 N 104° 1' 8.606765 W

**Position Uncertainty** 

0.00 ft

Wellhead Elevation:

0.00 ft

**Ground Level:** 

2,960.00 ft

Wellbore #1

Model Name

Sample Date

4/11/2019

Declination 😘

Field Strength

**HDGM** 

0.00

Permitting Plan Design

**Audit Notes:** 

Version: Phase: **PROTOTYPE** 

Tie On Depth:

0.00

Vertical Section: Depth From (TVD) (ft)

(ft)

0.00

-(ft) 0.00

Direction's

185.56

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Planning Report

Database: Company: Project: HOPSPP

ENGINEERING DESIGNS

PRD NM DIRECTIONAL PLANS (NAD 1983)

Width CC 6\_7

Site: Width CC 6\_7 Federal Com 15H

Wellbore: Design: Wellbore #1 Permitting Plan

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

RKB=26.5' @ 2986.50ft RKB=26.5' @ 2986.50ft

Well Width CC 6\_7 Federal Com 15H

Grid

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## Оху Planning Report

HOPSPP

ENGINEERING DESIGNS

PRD NM DIRECTIONAL PLANS (NAD 1983)

Width CC 6\_7

Width CC 6\_7 Federal Com 15H

Database Company Project Site Well: Wellbore Design Wellbore #1 Permitting Plan

LocaliCo-ordinate Reference: TVD Reference: MD Reference:

MD/Reference: North/Reference Survey/Calculation/Method:

Well Width CC 6\_7 Federal Com 15H

RKB=26.5' @ 2986.50ft RKB=26.5' @ 2986.50ft

Grid

Depth   Inclination   Azimuth   Depth   +N:S   +E/W   Section   Rate   Rate   (ft)		THE REPORTS	A thank I state Joseph mate The water while it							
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Pepth   Inclination   Azimuth   Pepth   H. S   HE. W   Section   Rate   Rate   (ft)	" · · · · · · · · · · · · · · · · · · ·	21703384538		No. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	arratia a a sasar		KANTONINI HIM	TRUCTUL TO THE STREET	A THE THE THE TWENTY	Planned Survey .
Pepth   Inclination   Azimuth   Depth   House   Heave   Section   Rate   Rate   (ft)	The state of the s	3 . D. W. L.		ari Satiati	EDWARD TREE		着ない中央で加			
Depth   Inclination   Azimuth   Depth   Holes   Helew   Section   Rate   Holes   Hol	urn - La	LANCE OF	Dogleg Bu	Vertical#	Land Control		Vertical			Measured
(ft)         (ft)         (ft)         (ft)         (ft)         (ft)         (ft)         (f100ft)         (f100ft)         (f100ft)         (f200ft)         <	Rate 4.7 1266	<b>"是</b> "				TNIC		Azimith	Inclination "A	
5,200.00         18,00         271.25         5,114.74         12.73         -585.37         44.04         0.00         0.00           5,300.00         18.00         271.25         5,209.85         13.41         -616.27         46.36         0.00         0.00           5,400.00         18.00         271.25         5,304.95         14.08         -647.16         48.68         0.00         0.00           5,500.00         18.00         271.25         5,400.06         14.75         -678.06         51.01         0.00         0.00           5,600.00         18.00         271.25         5,495.16         15.42         -708.95         53.33         0.00         0.00           5,700.00         18.00         271.25         5,685.37         16.07         -739.84         55.66         0.00         0.00           5,800.00         18.00         271.25         5,685.37         16.77         -770.74         57.98         0.00         0.00           5,900.00         18.00         271.25         5,685.37         16.77         -770.74         57.98         0.00         0.00           6,000.00         18.00         271.25         5,875.58         18.11         -832.53         62.63	100ft)				C					
5,200.00         18.00         271.25         5,114.74         12.73         -585.37         44.04         0.00         0.00           5,300.00         18.00         271.25         5,209.85         13.41         -616.27         46.36         0.00         0.00           5,400.00         18.00         271.25         5,304.95         14.08         -647.16         48.68         0.00         0.00           5,500.00         18.00         271.25         5,490.06         14.75         -678.06         51.01         0.00         0.00           5,600.00         18.00         271.25         5,495.16         15.42         -708.95         53.33         0.00         0.00           5,700.00         18.00         271.25         5,685.37         16.77         -770.74         57.98         0.00         0.00           5,900.00         18.00         271.25         5,780.48         17.44         801.63         60.30         0.00         0.00           6,000.00         18.00         271.25         5,875.58         18.11         -832.53         62.63         0.00         0.00           6,100.00         18.00         271.25         6,970.69         18.78         -863.42         64.95	2. 五层 题	100	Service and Table		<b>"我们"</b> 上层跨	(III)		<b>海。</b> [1]。 "明]	起答目的方案	
5,300.00         18.00         271.25         5,209.85         13.41         -616.27         46.36         0.00         0.00           5,400.00         18.00         271.25         5,304.95         14.08         -647.16         48.68         0.00         0.00           5,500.00         18.00         271.25         5,400.06         14.75         -678.06         51.01         0.00         0.00           5,600.00         18.00         271.25         5,495.16         15.42         -708.95         53.33         0.00         0.00           5,700.00         18.00         271.25         5,590.27         16.09         -739.84         55.66         0.00         0.00           5,800.00         18.00         271.25         5,685.37         16.77         -770.74         57.98         0.00         0.00           5,900.00         18.00         271.25         5,780.48         17.44         -801.63         60.30         0.00         0.00           6,000.00         18.00         271.25         5,875.58         18.11         -832.53         62.63         0.00         0.00           6,100.00         18.00         271.25         5,970.69         18.78         -863.42         64.95	0.00		0.00	44.04	COE 27		E AAA 7A	774.05	40.00	5 000 00
5,400.00       18.00       271.25       5,304.95       14.08       -647.16       48.68       0.00       0.00         5,500.00       18.00       271.25       5,400.06       14.75       -678.06       51.01       0.00       0.00         5,600.00       18.00       271.25       5,495.16       15.42       -708.95       53.33       0.00       0.00         5,700.00       18.00       271.25       5,590.27       16.09       -739.84       55.66       0.00       0.00         5,800.00       18.00       271.25       5,685.37       16.77       -770.74       57.98       0.00       0.00         5,900.00       18.00       271.25       5,780.48       17.44       -801.63       60.30       0.00       0.00         6,000.00       18.00       271.25       5,875.58       18.11       -832.53       62.63       0.00       0.00         6,100.00       18.00       271.25       5,970.69       18.78       -863.42       64.95       0.00       0.00         6,148.20       18.00       271.25       6,016.53       19.11       -878.31       66.07       0.00       0.00         6,200.00       17.29       268.75       6,065.89	0.00	0.00	0.00	44.04	-305.37	12.73	5,114.74	2/1.25	18,00	5,200.00
5,400.00       18.00       271.25       5,304.95       14.08       -647.16       48.68       0.00       0.00         5,500.00       18.00       271.25       5,400.06       14.75       -678.06       51.01       0.00       0.00         5,600.00       18.00       271.25       5,495.16       15.42       -708.95       53.33       0.00       0.00         5,700.00       18.00       271.25       5,590.27       16.09       -739.84       55.66       0.00       0.00         5,800.00       18.00       271.25       5,685.37       16.77       -770.74       57.98       0.00       0.00         5,900.00       18.00       271.25       5,780.48       17.44       -801.63       60.30       0.00       0.00         6,000.00       18.00       271.25       5,875.58       18.11       -832.53       62.63       0.00       0.00         6,100.00       18.00       271.25       5,970.69       18.78       -863.42       64.95       0.00       0.00         6,148.20       18.00       271.25       6,016.53       19.11       -878.31       66.07       0.00       0.00         6,200.00       17.29       268.75       6,065.89	0.00	0.00	0.00	46.36	-616.27	13.41	5 209 85	271 25	18.00	5 300 00
5,500.00       18.00       271.25       5,400.06       14.75       -678.06       51.01       0.00       0.00         5,600.00       18.00       271.25       5,495.16       15.42       -708.95       53.33       0.00       0.00         5,700.00       18.00       271.25       5,590.27       16.09       -739.84       55.66       0.00       0.00         5,800.00       18.00       271.25       5,685.37       16.77       -770.74       57.98       0.00       0.00         5,900.00       18.00       271.25       5,780.48       17.44       -801.63       60.30       0.00       0.00         6,000.00       18.00       271.25       5,875.58       18.11       -832.53       62.63       0.00       0.00         6,100.00       18.00       271.25       5,970.69       18.78       -863.42       64.95       0.00       0.00         6,148.20       18.00       271.25       6,016.53       19.11       -878.31       66.07       0.00       0.00         6,200.00       17.29       268.75       6,065.89       19.11       -894.01       67.59       2.00       -1.37         6,300.00       16.02       263.36       6,161.70 <td>0.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	0.00									
5,600.00       18.00       271.25       5,495.16       15.42       -708.95       53.33       0.00       0.00         5,700.00       18.00       271.25       5,590.27       16.09       -739.84       55.66       0.00       0.00         5,800.00       18.00       271.25       5,685.37       16.77       -770.74       57.98       0.00       0.00         5,900.00       18.00       271.25       5,780.48       17.44       -801.63       60.30       0.00       0.00         6,000.00       18.00       271.25       5,875.58       18.11       -832.53       62.63       0.00       0.00         6,100.00       18.00       271.25       5,970.69       18.78       -863.42       64.95       0.00       0.00         6,148.20       18.00       271.25       6,016.53       19.11       -878.31       66.07       0.00       0.00         6,200.00       17.29       268.75       6,065.89       19.11       -894.01       67.59       2.00       -1.37         6,300.00       16.02       263.36       6,161.70       17.19       -922.58       72.27       2.00       -1.27         6,400.00       14.91       257.12       6,258.09 <td>0.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	0.00									
5,700.00         18.00         271.25         5,590.27         16.09         -739.84         55.66         0.00         0.00           5,800.00         18.00         271.25         5,685.37         16.77         -770.74         57.98         0.00         0.00           5,900.00         18.00         271.25         5,780.48         17.44         -801.63         60.30         0.00         0.00           6,000.00         18.00         271.25         5,875.58         18.11         -832.53         62.63         0.00         0.00           6,100.00         18.00         271.25         5,970.69         18.78         -863.42         64.95         0.00         0.00           6,148.20         18.00         271.25         6,016.53         19.11         -878.31         66.07         0.00         0.00           6,200.00         17.29         268.75         6,065.89         19.11         -894.01         67.59         2.00         -1.37           6,300.00         16.02         263.36         6,161.70         17.19         -922.58         72.27         2.00         -1.27           6,400.00         14.91         257.12         6,258.09         12.73         -948.83         79.25										1 '
5,800.00         18.00         271.25         5,685.37         16.77         -770.74         57.98         0.00         0.00           5,900.00         18.00         271.25         5,780.48         17.44         -801.63         60.30         0.00         0.00           6,000.00         18.00         271.25         5,875.58         18.11         -832.53         62.63         0.00         0.00           6,100.00         18.00         271.25         5,970.69         18.78         -863.42         64.95         0.00         0.00           6,148.20         18.00         271.25         6,016.53         19.11         -878.31         66.07         0.00         0.00           6,200.00         17.29         268.75         6,065.89         19.11         -894.01         67.59         2.00         -1.37           6,300.00         16.02         263.36         6,161.70         17.19         -922.58         72.27         2.00         -1.27           6,400.00         14.91         257.12         6,258.09         12.73         -948.83         79.25         2.00         -1.11           6,500.00         13.39         249.99         6,354.93         5.72         -972.73         88.54	0.00									
5,900.00       18.00       271.25       5,780.48       17.44       -801.63       60.30       0.00       0.00         6,000.00       18.00       271.25       5,875.58       18.11       -832.53       62.63       0.00       0.00         6,100.00       18.00       271.25       5,970.69       18.78       -863.42       64.95       0.00       0.00         6,148.20       18.00       271.25       6,016.53       19.11       -878.31       66.07       0.00       0.00         6,200.00       17.29       268.75       6,065.89       19.11       -894.01       67.59       2.00       -1.37         6,300.00       16.02       263.36       6,161.70       17.19       -922.58       72.27       2.00       -1.27         6,400.00       14.91       257.12       6,258.09       12.73       -948.83       79.25       2.00       -1.11         6,500.00       13.99       249.99       6,354.93       5.72       -972.73       88.54       2.00       -0.92         6,600.00       12.89       233.38       6,549.52       -15.86       -1,013.36       113.96       2.00       -0.41         6,800.00       12.77       224.38       6,647	0.00	0.00	0.00	55.66	-739.84	16.09	5,590.27	271.25	18.00	5,700.00
5,900.00       18.00       271.25       5,780.48       17.44       -801.63       60.30       0.00       0.00         6,000.00       18.00       271.25       5,875.58       18.11       -832.53       62.63       0.00       0.00         6,100.00       18.00       271.25       5,970.69       18.78       -863.42       64.95       0.00       0.00         6,148.20       18.00       271.25       6,016.53       19.11       -878.31       66.07       0.00       0.00         6,200.00       17.29       268.75       6,065.89       19.11       -894.01       67.59       2.00       -1.37         6,300.00       16.02       263.36       6,161.70       17.19       -922.58       72.27       2.00       -1.27         6,400.00       14.91       257.12       6,258.09       12.73       -948.83       79.25       2.00       -1.11         6,500.00       13.99       249.99       6,354.93       5.72       -972.73       88.54       2.00       -0.92         6,600.00       12.89       233.38       6,549.52       -15.86       -1,013.36       113.96       2.00       -0.41         6,800.00       12.77       224.38       6,647	0.00	0.00	0.00	57.08	-770.74	16 77	5 695 37	271.25	19.00	£ 800 00
6,000.00       18.00       271.25       5,875.58       18.11       -832.53       62.63       0.00       0.00         6,100.00       18.00       271.25       5,970.69       18.78       -863.42       64.95       0.00       0.00         6,148.20       18.00       271.25       6,016.53       19.11       -878.31       66.07       0.00       0.00         6,200.00       17.29       268.75       6,065.89       19.11       -894.01       67.59       2.00       -1.37         6,300.00       16.02       263.36       6,161.70       17.19       -922.58       72.27       2.00       -1.27         6,400.00       14.91       257.12       6,258.09       12.73       -948.83       79.25       2.00       -1.11         6,500.00       13.99       249.99       6,354.93       5.72       -972.73       88.54       2.00       -0.92         6,600.00       13.30       242.02       6,452.12       -3.81       -994.25       100.11       2.00       -0.69         6,700.00       12.89       233.38       6,549.52       -15.86       -1,013.36       113.96       2.00       -0.41         6,800.00       12.77       224.38       6,6	0.00									
6,100.00       18.00       271.25       5,970.69       18.78       -863.42       64.95       0.00       0.00         6,148.20       18.00       271.25       6,016.53       19.11       -878.31       66.07       0.00       0.00         6,200.00       17.29       268.75       6,065.89       19.11       -894.01       67.59       2.00       -1.37         6,300.00       16.02       263.36       6,161.70       17.19       -922.58       72.27       2.00       -1.27         6,400.00       14.91       257.12       6,258.09       12.73       -948.83       79.25       2.00       -1.11         6,500.00       13.99       249.99       6,354.93       5.72       -972.73       88.54       2.00       -0.92         6,600.00       13.30       242.02       6,452.12       -3.81       -994.25       100.11       2.00       -0.69         6,700.00       12.89       233.38       6,549.52       -15.86       -1,013.36       113.96       2.00       -0.41         6,800.00       12.77       224.38       6,647.04       -30.42       -1,030.05       130.07       2.00       -0.12										
6,148.20       18.00       271.25       6,016.53       19.11       -878.31       66.07       0.00       0.00         6,200.00       17.29       268.75       6,065.89       19.11       -894.01       67.59       2.00       -1.37         6,300.00       16.02       263.36       6,161.70       17.19       -922.58       72.27       2.00       -1.27         6,400.00       14.91       257.12       6,258.09       12.73       -948.83       79.25       2.00       -1.11         6,500.00       13.99       249.99       6,354.93       5.72       -972.73       88.54       2.00       -0.92         6,600.00       13.30       242.02       6,452.12       -3.81       -994.25       100.11       2.00       -0.69         6,700.00       12.89       233.38       6,549.52       -15.86       -1,013.36       113.96       2.00       -0.41         6,800.00       12.77       224.38       6,647.04       -30.42       -1,030.05       130.07       2.00       -0.12	0.00									1
6,200.00       17.29       268.75       6,065.89       19.11       -894.01       67.59       2.00       -1.37         6,300.00       16.02       263.36       6,161.70       17.19       -922.58       72.27       2.00       -1.27         6,400.00       14.91       257.12       6,258.09       12.73       -948.83       79.25       2.00       -1.11         6,500.00       13.99       249.99       6,354.93       5.72       -972.73       88.54       2.00       -0.92         6,600.00       13.30       242.02       6,452.12       -3.81       -994.25       100.11       2.00       -0.69         6,700.00       12.89       233.38       6,549.52       -15.86       -1,013.36       113.96       2.00       -0.41         6,800.00       12.77       224.38       6,647.04       -30.42       -1,030.05       130.07       2.00       -0.12	0.00						5,970.69			
6,200.00       17.29       268.75       6,065.89       19.11       -894.01       67.59       2.00       -1.37         6,300.00       16.02       263.36       6,161.70       17.19       -922.58       72.27       2.00       -1.27         6,400.00       14.91       257.12       6,258.09       12.73       -948.83       79.25       2.00       -1.11         6,500.00       13.99       249.99       6,354.93       5.72       -972.73       88.54       2.00       -0.92         6,600.00       13.30       242.02       6,452.12       -3.81       -994.25       100.11       2.00       -0.69         6,700.00       12.89       233.38       6,549.52       -15.86       -1,013.36       113.96       2.00       -0.41         6,800.00       12.77       224.38       6,647.04       -30.42       -1,030.05       130.07       2.00       -0.12	0.00	0.00	0.00	66.07	-878.31	19.11	6,016.53	271.25	18.00	6,148.20
6,300.00       16.02       263.36       6,161.70       17.19       -922.58       72.27       2.00       -1.27         6,400.00       14.91       257.12       6,258.09       12.73       -948.83       79.25       2.00       -1.11         6,500.00       13.99       249.99       6,354.93       5.72       -972.73       88.54       2.00       -0.92         6,600.00       13.30       242.02       6,452.12       -3.81       -994.25       100.11       2.00       -0.69         6,700.00       12.89       233.38       6,549.52       -15.86       -1,013.36       113.96       2.00       -0.41         6,800.00       12.77       224.38       6,647.04       -30.42       -1,030.05       130.07       2.00       -0.12	4.04	4 27	0.00	. 67.50	004.04	40.44	0.005.00			
6,400.00       14.91       257.12       6,258.09       12.73       -948.83       79.25       2.00       -1.11         6,500.00       13.99       249.99       6,354.93       5.72       -972.73       88.54       2.00       -0.92         6,600.00       13.30       242.02       6,452.12       -3.81       -994.25       100.11       2.00       -0.69         6,700.00       12.89       233.38       6,549.52       -15.86       -1,013.36       113.96       2.00       -0.41         6,800.00       12.77       224.38       6,647.04       -30.42       -1,030.05       130.07       2.00       -0.12	<b>-4</b> .81									1
6,500.00     13.99     249.99     6,354.93     5.72     -972.73     88.54     2.00     -0.92       6,600.00     13.30     242.02     6,452.12     -3.81     -994.25     100.11     2.00     -0.69       6,700.00     12.89     233.38     6,549.52     -15.86     -1,013.36     113.96     2.00     -0.41       6,800.00     12.77     224.38     6,647.04     -30.42     -1,030.05     130.07     2.00     -0.12	-5.40									1 '
6,500.00     13.99     249.99     6,354.93     5.72     -972.73     88.54     2.00     -0.92       6,600.00     13.30     242.02     6,452.12     -3.81     -994.25     100.11     2.00     -0.69       6,700.00     12.89     233.38     6,549.52     -15.86     -1,013.36     113.96     2.00     -0.41       6,800.00     12.77     224.38     6,647.04     -30.42     -1,030.05     130.07     2.00     -0.12	-6.24		2.00	79.25	-948.83		6,258.09	257.12	14.91	6,400.00
6,600.00 13.30 242.02 6,452.12 -3.81 -994.25 100.11 2.00 -0.69 6,700.00 12.89 233.38 6,549.52 -15.86 -1,013.36 113.96 2.00 -0.41 6,800.00 12.77 224.38 6,647.04 -30.42 -1,030.05 130.07 2.00 -0.12	-7.13	0.92	2.00	88.54	-972.73	5.72	6,354.93	249.99	13.99	6.500.00
6,700.00 12.89 233.38 6,549.52 -15.86 -1,013.36 113.96 2.00 -0.41 6,800.00 12.77 224.38 6,647.04 -30.42 -1,030.05 130.07 2.00 -0.12	-7.97									
6,800.00 12.77 224.38 6,647.04 -30.42 -1,030.05 130.07 2.00 -0.12					•	•				
	-8.64				-1,013.36		6,549.52	233.38		6,700.00
6 900 00 12 96 215 43 6 744 54 <u>47 46</u> <u>1 044 28 148 41 2 00 0.10</u>	-9.00	0.12	2.00	130.07	-1,030.05	-30.42	6,647.04	224.38	12.77	6,800.00
	-8.95	0.19	2.00	148.41	-1,044.28	-47.46	6,744.54	215.43	12.96	6.900.00
7,000.00 13.45 206.92 6,841.90 -66.97 -1,056.05 168.96 2.00 0.48	-8.50						•			,
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7,200.00 15.16 192.24 7,035.76 -113.29 -1,072.13 216.62 2.00 0.97	-6.91	0.97	2.00	216.62	-1.072.13	-113.29	7.035.76	192.24	15.16	7.200.00
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#### Planning Report

HOPSPP ENGINEERING DESIGNS

Database: HOPSPP
Company: ENGINEERING DESIGNS
Project: PRD NM DIRECTIONAL PLANS (NAD 1983)
Site: Width CC 6\_7
Well: Width CC 6\_7 Federal Com 15H
Wellbore: Wellbore #1
Design: Permitting Plan

MD Reference: North Reference: Survey Calculation Method:

Well Width CC 6\_7 Federal Com 15H

RKB=26.5' @ 2986.50ft RKB=26.5' @ 2986.50ft

Grid

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12,500.00 90.11 179.72 7,640.93 -5,074.99 -1,053.93 5,153.22 0.00 0.00 0.00 12,600.00 90.11 179.72 7,640.73 -5,174.99 -1,053.44 5,252.70 0.00 0.00 0.00 0.00 12,700.00 90.11 179.72 7,640.53 -5,274.98 -1,052.94 5,352.18 0.00 0.00 0.00 0.00 12,800.00 90.11 179.72 7,640.53 -5,374.98 -1,052.44 5,451.66 0.00 0.00 0.00 0.00 13,000.00 90.11 179.72 7,640.13 -5,474.98 -1,051.95 5,551.14 0.00 0.00 0.00 0.00 13,000.00 90.11 179.72 7,639.93 -5,574.98 -1,051.95 5,551.14 0.00 0.00 0.00 0.00 13,100.00 90.11 179.72 7,639.93 -5,574.98 -1,050.95 5,750.10 0.00 0.00 0.00 0.00 13,200.00 90.11 179.72 7,639.53 -5,774.98 -1,050.95 5,750.10 0.00 0.00 0.00 0.00 13,200.00 90.11 179.72 7,639.53 -5,774.98 -1,050.96 5,849.58 0.00 0.00 0.00 0.00 13,300.00 90.11 179.72 7,639.33 -5,874.98 -1,049.96 5,849.58 0.00 0.00 0.00 0.00 13,300.00 90.11 179.72 7,639.44 -5,974.97 -1,049.96 6,048.54 0.00 0.00 0.00 0.00 13,300.00 90.11 179.72 7,639.54 -6,074.97 -1,048.97 6,148.02 0.00 0.00 0.00 0.00 13,600.00 90.11 179.72 7,638.54 -6,074.97 -1,048.97 6,247.50 0.00 0.00 0.00 0.00 13,600.00 90.11 179.72 7,638.54 -6,274.97 -1,048.97 6,247.50 0.00 0.00 0.00 0.00 13,600.00 90.11 179.72 7,638.54 -6,274.97 -1,044.89 6,446.46 0.00 0.00 0.00 13,900.00 90.11 179.72 7,638.54 -6,374.97 -1,044.89 6,446.46 0.00 0.00 0.00 13,900.00 90.11 179.72 7,638.54 -6,374.97 -1,044.89 6,544.90 0.00 0.00 0.00 14,000.00 90.11 179.72 7,637.54 -6,574.96 -1,045.99 6,544.90 0.00 0.00 0.00 0.00 14,000.00 90.11 179.72 7,637.54 -6,574.96 -1,045.99 6,544.90 0.00 0.00 0.00 0.00 14,000.00 90.11 179.72 7,637.54 -6,574.96 -1,045.99 6,844.38 0.00 0.00 0.00 0.00 14,000.00 90.11 179.72 7,637.54 -6,574.96 -1,045.99 6,844.38 0.00 0.00 0.00 0.00 14,000.00 90.11 179.72 7,637.54 -6,574.96 -1,044.90 6,844.38 0.00 0.00 0.00 0.00 14,000.00 90.11 179.72 7,637.34 -6,574.96 -1,045.91 6,844.98 0.00 0.00 0.00 0.00 14,000.00 90.11 179.72 7,635.54 -7,774.96 -1,044.90 6,844.38 0.00 0.00 0.00 0.00 14,000.00 90.11 179.72 7,635.54 -7,774.95 -1,040.50 7,743.95 -1,040.20 7,743.95 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	12,300.00	90.11	179.72	7,641,33	-4,874.99	-1,054.93	4,954.26	0.00	0.00	0.00
12,500.00 90.11 179.72 7,640.93 -5,074.99 -1,053.93 5,153.22 0.00 0.00 0.00 12,600.00 90.11 179.72 7,640.73 -5,174.99 -1,053.44 5,252.70 0.00 0.00 0.00 0.00 12,700.00 90.11 179.72 7,640.53 -5,274.98 -1,052.94 5,352.18 0.00 0.00 0.00 0.00 12,800.00 90.11 179.72 7,640.53 -5,374.98 -1,052.44 5,451.66 0.00 0.00 0.00 0.00 13,000.00 90.11 179.72 7,640.13 -5,474.98 -1,051.95 5,551.14 0.00 0.00 0.00 0.00 13,000.00 90.11 179.72 7,639.93 -5,574.98 -1,051.95 5,551.14 0.00 0.00 0.00 0.00 13,100.00 90.11 179.72 7,639.93 -5,574.98 -1,050.95 5,750.10 0.00 0.00 0.00 0.00 13,200.00 90.11 179.72 7,639.53 -5,774.98 -1,050.95 5,750.10 0.00 0.00 0.00 0.00 13,200.00 90.11 179.72 7,639.53 -5,774.98 -1,050.96 5,849.58 0.00 0.00 0.00 0.00 13,300.00 90.11 179.72 7,639.33 -5,874.98 -1,049.96 5,849.58 0.00 0.00 0.00 0.00 13,300.00 90.11 179.72 7,639.44 -5,974.97 -1,049.96 6,048.54 0.00 0.00 0.00 0.00 13,300.00 90.11 179.72 7,639.54 -6,074.97 -1,048.97 6,148.02 0.00 0.00 0.00 0.00 13,600.00 90.11 179.72 7,638.54 -6,074.97 -1,048.97 6,247.50 0.00 0.00 0.00 0.00 13,600.00 90.11 179.72 7,638.54 -6,274.97 -1,048.97 6,247.50 0.00 0.00 0.00 0.00 13,600.00 90.11 179.72 7,638.54 -6,274.97 -1,044.89 6,446.46 0.00 0.00 0.00 13,900.00 90.11 179.72 7,638.54 -6,374.97 -1,044.89 6,446.46 0.00 0.00 0.00 13,900.00 90.11 179.72 7,638.54 -6,374.97 -1,044.89 6,544.90 0.00 0.00 0.00 14,000.00 90.11 179.72 7,637.54 -6,574.96 -1,045.99 6,544.90 0.00 0.00 0.00 0.00 14,000.00 90.11 179.72 7,637.54 -6,574.96 -1,045.99 6,544.90 0.00 0.00 0.00 0.00 14,000.00 90.11 179.72 7,637.54 -6,574.96 -1,045.99 6,844.38 0.00 0.00 0.00 0.00 14,000.00 90.11 179.72 7,637.54 -6,574.96 -1,045.99 6,844.38 0.00 0.00 0.00 0.00 14,000.00 90.11 179.72 7,637.54 -6,574.96 -1,044.90 6,844.38 0.00 0.00 0.00 0.00 14,000.00 90.11 179.72 7,637.34 -6,574.96 -1,045.91 6,844.98 0.00 0.00 0.00 0.00 14,000.00 90.11 179.72 7,635.54 -7,774.96 -1,044.90 6,844.38 0.00 0.00 0.00 0.00 14,000.00 90.11 179.72 7,635.54 -7,774.95 -1,040.50 7,743.95 -1,040.20 7,743.95 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	12,400.00	90.11	179.72	7.641.13	-4 974 99	-1.054.43	5.053.74	0.00	0.00	0.00
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12,700,00 90.11 179,72 7,640,53 -5,274,98 -1,052,94 5,352,18 0.00 0.00 0.00 12,800.00 90.11 179,72 7,640,13 -5,374,98 -1,052,44 5,451,66 0.00 0.00 0.00 0.00 12,900.00 90.11 179,72 7,640,13 -5,474,98 -1,051,45 5,551,14 0.00 0.00 0.00 0.00 13,000.00 90.11 179,72 7,639,93 -5,574,98 -1,050,95 5,750,10 0.00 0.00 0.00 0.00 13,100,00 90.11 179,72 7,639,53 -5,774,98 -1,050,95 5,750,10 0.00 0.00 0.00 0.00 13,300,00 90.11 179,72 7,639,53 -5,774,98 -1,050,95 5,750,10 0.00 0.00 0.00 0.00 13,300,00 90.11 179,72 7,639,51 -5,749,88 -1,050,95 5,750,10 0.00 0.00 0.00 0.00 13,400,00 90.11 179,72 7,639,51 -5,974,98 -1,049,96 5,949,06 0.00 0.00 0.00 0.00 13,400,00 90.11 179,72 7,639,14 -5,974,97 -1,049,46 6,048,54 0.00 0.00 0.00 0.00 13,600,00 90.11 179,72 7,638,94 -6,074,97 -1,048,47 6,247,50 0.00 0.00 0.00 13,600,00 90.11 179,72 7,638,54 -6,274,97 -1,047,97 6,346,98 0.00 0.00 0.00 0.00 13,800,00 90.11 179,72 7,638,54 -6,274,97 -1,047,97 6,346,98 0.00 0.00 0.00 0.00 13,900,00 90.11 179,72 7,638,14 -6,474,97 -1,046,98 6,545,94 0.00 0.00 0.00 0.00 13,900,00 90.11 179,72 7,638,14 -6,474,97 -1,046,98 6,545,94 0.00 0.00 0.00 0.00 14,000,00 90.11 179,72 7,638,14 -6,474,97 -1,046,98 6,545,94 0.00 0.00 0.00 0.00 14,000,00 90.11 179,72 7,638,14 -6,474,97 -1,046,98 6,545,94 0.00 0.00 0.00 0.00 14,000,00 90.11 179,72 7,637,14 -6,674,96 -1,045,99 6,744,90 0.00 0.00 0.00 0.00 14,000,00 90.11 179,72 7,637,34 -6,674,96 -1,045,99 6,744,90 0.00 0.00 0.00 0.00 14,000,00 90.11 179,72 7,636,94 -7,074,96 -1,045,99 6,943,86 0.00 0.00 0.00 0.00 14,000,00 90.11 179,72 7,636,94 -7,074,96 -1,045,99 6,943,86 0.00 0.00 0.00 0.00 14,000,00 90.11 179,72 7,636,94 -7,074,96 -1,045,99 6,943,86 0.00 0.00 0.00 0.00 14,000,00 90.11 179,72 7,636,94 -7,074,96 -1,045,99 6,943,86 0.00 0.00 0.00 0.00 14,000,00 90.11 179,72 7,636,94 -7,074,96 -1,045,97 6,943,98 0.00 0.00 0.00 0.00 0.00 14,000,00 90.11 179,72 7,636,94 -7,074,96 -1,045,97 6,943,98 0.00 0.00 0.00 0.00 0.00 15,000,00 90.11 179,72 7,635,94 -7,749,95 -1,040,00 7,142,82 0.00 0.00 0.00 0.00 0.00 15,000,00 90.11	12.600.00	90.11	179.72	7.640.73	-5.174.99	-1.053.44	5,252,70	0.00	0.00	0.00
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13,100.00       90.11       179.72       7,639.73       -5,674.98       -1,050.95       5,750.10       0.00       0.00       0.00         13,200.00       90.11       179.72       7,639.53       -5,874.98       -1,050.46       5,849.58       0.00       0.00       0.00       0.00         13,300.00       90.11       179.72       7,639.14       -5,974.97       -1,049.46       6,048.54       0.00       0.00       0.00       0.00         13,500.00       90.11       179.72       7,638.94       -6,074.97       -1,048.97       6,148.02       0.00       0.00       0.00       0.00         13,500.00       90.11       179.72       7,638.74       -6,174.97       -1,048.97       6,247.50       0.00       0.00       0.00       0.00         13,700.00       90.11       179.72       7,638.74       -6,274.97       -1,048.97       6,247.50       0.00       0.00       0.00         13,800.00       90.11       179.72       7,638.34       -6,374.97       -1,047.97       6,346.98       0.00       0.00       0.00         14,000.00       90.11       179.72       7,638.34       -6,374.97       -1,046.98       6,545.94       0.00       0.00       0.00	12,900.00	90.11	179.72	7,640.13	-5,4/4.98	-1,051.95	5,551.14	0.00	0,00	0.00
13,100.00       90.11       179.72       7,639.73       -5,674.98       -1,050.95       5,750.10       0.00       0.00       0.00         13,200.00       90.11       179.72       7,639.53       -5,874.98       -1,050.46       5,849.58       0.00       0.00       0.00       0.00         13,300.00       90.11       179.72       7,639.14       -5,974.97       -1,049.46       6,048.54       0.00       0.00       0.00       0.00         13,500.00       90.11       179.72       7,638.94       -6,074.97       -1,048.97       6,148.02       0.00       0.00       0.00       0.00         13,500.00       90.11       179.72       7,638.74       -6,174.97       -1,048.97       6,247.50       0.00       0.00       0.00       0.00         13,700.00       90.11       179.72       7,638.74       -6,274.97       -1,048.97       6,247.50       0.00       0.00       0.00         13,800.00       90.11       179.72       7,638.34       -6,374.97       -1,047.97       6,346.98       0.00       0.00       0.00         14,000.00       90.11       179.72       7,638.34       -6,374.97       -1,046.98       6,545.94       0.00       0.00       0.00	13 000 00	90 11	170 72	7 639 93	-5 574 08	-1 051 45	5 650 62	0.00	0.00	0.00
13,200.00       90.11       179.72       7,639.53       -5,774.98       -1,050.46       5,849.58       0.00       0.00       0.00       0.00         13,300.00       90.11       179.72       7,639.31       -5,874.98       -1,049.96       5,949.06       0.00       0.00       0.00       0.00         13,400.00       90.11       179.72       7,638.94       -6,074.97       -1,048.97       6,148.02       0.00       0.00       0.00       0.00         13,600.00       90.11       179.72       7,638.74       -6,174.97       -1,048.97       6,148.02       0.00       0.00       0.00       0.00         13,600.00       90.11       179.72       7,638.54       -6,274.97       -1,047.97       6,346.98       0.00       0.00       0.00       0.00         13,800.00       90.11       179.72       7,638.34       -6,374.97       -1,047.48       6,464.66       0.00       0.00       0.00       0.00         14,000.00       90.11       179.72       7,637.94       -6,574.97       -1,046.98       6,645.42       0.00       0.00       0.00         14,200.00       90.11       179.72       7,637.54       -6,774.96       -1,045.99       6,744.90       0.00					•	•				
13,300.00       90.11       179.72       7,639.33       -5,874.98       -1,049.96       5,949.06       0.00       0.00       0.00         13,400.00       90.11       179.72       7,638.94       -5,974.97       -1,049.46       6,048.54       0.00       0.00       0.00         13,500.00       90.11       179.72       7,638.94       -6,074.97       -1,048.97       6,148.02       0.00       0.00       0.00         13,600.00       90.11       179.72       7,638.74       -6,174.97       -1,048.47       6,247.50       0.00       0.00       0.00         13,700.00       90.11       179.72       7,638.54       -6,274.97       -1,047.97       6,346.98       0.00       0.00       0.00         13,800.00       90.11       179.72       7,638.34       -6,374.97       -1,047.98       6,446.46       0.00       0.00       0.00         13,900.00       90.11       179.72       7,638.14       -6,574.97       -1,046.98       6,545.94       0.00       0.00       0.00         14,000.00       90.11       179.72       7,637.94       -6,674.96       -1,046.98       6,645.42       0.00       0.00       0.00         14,200.00       90.11       179.72 <td></td> <td></td> <td></td> <td></td> <td></td> <td>•</td> <td></td> <td></td> <td></td> <td></td>						•				
13,400.00       90.11       179.72       7,639.14       -5,974.97       -1,049.46       6,048.54       0.00       0.00       0.00         13,500.00       90.11       179.72       7,638.94       -6,074.97       -1,048.97       6,148.02       0.00       0.00       0.00         13,600.00       90.11       179.72       7,638.54       -6,274.97       -1,048.47       6,247.50       0.00       0.00       0.00         13,700.00       90.11       179.72       7,638.54       -6,274.97       -1,047.48       6,446.46       0.00       0.00       0.00         13,800.00       90.11       179.72       7,638.34       -6,374.97       -1,047.48       6,446.46       0.00       0.00       0.00         13,900.00       90.11       179.72       7,638.14       -6,474.97       -1,046.98       6,545.94       0.00       0.00       0.00         14,100.00       90.11       179.72       7,637.74       -6,674.96       -1,045.99       6,744.90       0.00       0.00       0.00         14,200.00       90.11       179.72       7,637.34       -6,674.96       -1,045.49       6,844.38       0.00       0.00       0.00         14,300.00       90.11       179.72 <td></td>										
13,500.00 90.11 179.72 7,638.94 -6,074.97 -1,048.97 6,148.02 0.00 0.00 0.00 0.00 13,600.00 90.11 179.72 7,638.74 -6,174.97 -1,047.47 6,247.50 0.00 0.00 0.00 0.00 13,700.00 90.11 179.72 7,638.54 -6,274.97 -1,047.48 6,446.48 0.00 0.00 0.00 0.00 13,900.00 90.11 179.72 7,638.34 -6,374.97 -1,047.48 6,446.48 0.00 0.00 0.00 0.00 13,900.00 90.11 179.72 7,638.14 -6,474.97 -1,046.48 6,645.42 0.00 0.00 0.00 0.00 14,000.00 90.11 179.72 7,637.94 -6,574.97 -1,046.48 6,645.42 0.00 0.00 0.00 0.00 14,100.00 90.11 179.72 7,637.94 -6,574.97 -1,046.48 6,645.42 0.00 0.00 0.00 0.00 14,200.00 90.11 179.72 7,637.54 -6,774.96 -1,045.99 6,744.90 0.00 0.00 0.00 0.00 14,200.00 90.11 179.72 7,637.34 -6,874.96 -1,045.49 6,844.38 0.00 0.00 0.00 0.00 14,400.00 90.11 179.72 7,637.34 -6,874.96 -1,044.90 6,943.86 0.00 0.00 0.00 0.00 14,400.00 90.11 179.72 7,637.34 -6,874.96 -1,044.50 7,043.34 0.00 0.00 0.00 0.00 14,500.00 90.11 179.72 7,636.74 -7,774.96 -1,044.50 7,043.34 0.00 0.00 0.00 0.00 14,600.00 90.11 179.72 7,636.74 -7,774.96 -1,044.50 7,043.34 0.00 0.00 0.00 0.00 14,600.00 90.11 179.72 7,636.54 -7,274.96 -1,044.50 7,242.30 0.00 0.00 0.00 0.00 14,600.00 90.11 179.72 7,636.54 -7,274.96 -1,043.01 7,341.78 0.00 0.00 0.00 0.00 14,900.00 90.11 179.72 7,636.34 -7,374.95 -1,042.01 7,540.74 0.00 0.00 0.00 0.00 15,000.00 90.11 179.72 7,635.54 -7,674.95 -1,042.01 7,540.74 0.00 0.00 0.00 0.00 15,000.00 90.11 179.72 7,635.54 -7,674.95 -1,042.01 7,540.74 0.00 0.00 0.00 0.00 15,200.00 90.11 179.72 7,635.54 -7,674.95 -1,041.52 7,640.22 0.00 0.00 0.00 0.00 15,200.00 90.11 179.72 7,635.54 -7,674.95 -1,041.52 7,640.22 0.00 0.00 0.00 0.00 15,200.00 90.11 179.72 7,635.54 -7,674.95 -1,041.52 7,839.18 0.00 0.00 0.00 0.00 15,200.00 90.11 179.72 7,635.54 -7,674.95 -1,040.52 7,839.18 0.00 0.00 0.00 0.00 15,200.00 90.11 179.72 7,635.54 -7,674.95 -1,040.52 7,839.18 0.00 0.00 0.00 0.00 15,200.00 90.11 179.72 7,635.54 -7,674.95 -1,040.52 7,839.18 0.00 0.00 0.00 0.00 15,200.00 90.11 179.72 7,635.54 -7,674.95 -1,040.52 7,839.18 0.00 0.00 0.00 0.00 15,200.00 90.11 179.7	13,300.00	90.11	179.72	7,639.33	-5,874.98	-1,049.96	5,949.06	0.00	0.00	0.00
13,500.00 90.11 179.72 7,638.94 -6,074.97 -1,048.97 6,148.02 0.00 0.00 0.00 0.00 13,600.00 90.11 179.72 7,638.74 -6,174.97 -1,047.47 6,247.50 0.00 0.00 0.00 0.00 13,700.00 90.11 179.72 7,638.54 -6,274.97 -1,047.48 6,446.48 0.00 0.00 0.00 0.00 13,900.00 90.11 179.72 7,638.34 -6,374.97 -1,047.48 6,446.48 0.00 0.00 0.00 0.00 13,900.00 90.11 179.72 7,638.14 -6,474.97 -1,046.48 6,645.42 0.00 0.00 0.00 0.00 14,000.00 90.11 179.72 7,637.94 -6,574.97 -1,046.48 6,645.42 0.00 0.00 0.00 0.00 14,100.00 90.11 179.72 7,637.94 -6,574.97 -1,046.48 6,645.42 0.00 0.00 0.00 0.00 14,200.00 90.11 179.72 7,637.54 -6,774.96 -1,045.99 6,744.90 0.00 0.00 0.00 0.00 14,200.00 90.11 179.72 7,637.34 -6,874.96 -1,045.49 6,844.38 0.00 0.00 0.00 0.00 14,400.00 90.11 179.72 7,637.34 -6,874.96 -1,044.90 6,943.86 0.00 0.00 0.00 0.00 14,400.00 90.11 179.72 7,637.34 -6,874.96 -1,044.50 7,043.34 0.00 0.00 0.00 0.00 14,500.00 90.11 179.72 7,636.74 -7,774.96 -1,044.50 7,043.34 0.00 0.00 0.00 0.00 14,600.00 90.11 179.72 7,636.74 -7,774.96 -1,044.50 7,043.34 0.00 0.00 0.00 0.00 14,600.00 90.11 179.72 7,636.54 -7,274.96 -1,044.50 7,242.30 0.00 0.00 0.00 0.00 14,600.00 90.11 179.72 7,636.54 -7,274.96 -1,043.01 7,341.78 0.00 0.00 0.00 0.00 14,900.00 90.11 179.72 7,636.34 -7,374.95 -1,042.01 7,540.74 0.00 0.00 0.00 0.00 15,000.00 90.11 179.72 7,635.54 -7,674.95 -1,042.01 7,540.74 0.00 0.00 0.00 0.00 15,000.00 90.11 179.72 7,635.54 -7,674.95 -1,042.01 7,540.74 0.00 0.00 0.00 0.00 15,200.00 90.11 179.72 7,635.54 -7,674.95 -1,041.52 7,640.22 0.00 0.00 0.00 0.00 15,200.00 90.11 179.72 7,635.54 -7,674.95 -1,041.52 7,640.22 0.00 0.00 0.00 0.00 15,200.00 90.11 179.72 7,635.54 -7,674.95 -1,041.52 7,839.18 0.00 0.00 0.00 0.00 15,200.00 90.11 179.72 7,635.54 -7,674.95 -1,040.52 7,839.18 0.00 0.00 0.00 0.00 15,200.00 90.11 179.72 7,635.54 -7,674.95 -1,040.52 7,839.18 0.00 0.00 0.00 0.00 15,200.00 90.11 179.72 7,635.54 -7,674.95 -1,040.52 7,839.18 0.00 0.00 0.00 0.00 15,200.00 90.11 179.72 7,635.54 -7,674.95 -1,040.52 7,839.18 0.00 0.00 0.00 0.00 15,200.00 90.11 179.7	13.400.00	90.11	179.72	7.639.14	-5.974.97	-1.049.46	6.048.54	0.00	0.00	0.00
13,600.00 90.11 179.72 7,638.74 -6,174.97 -1,048.47 6,247.50 0.00 0.00 0.00 0.00 13,700.00 90.11 179.72 7,638.54 -6,274.97 -1,047.97 6,346.98 0.00 0.00 0.00 0.00 13,800.00 90.11 179.72 7,638.34 -6,374.97 -1,047.48 6,446.46 0.00 0.00 0.00 0.00 13,900.00 90.11 179.72 7,638.14 -6,474.97 -1,046.98 6,545.94 0.00 0.00 0.00 0.00 14,000.00 90.11 179.72 7,637.94 -6,574.97 -1,046.48 6,645.42 0.00 0.00 0.00 0.00 14,100.00 90.11 179.72 7,637.74 -6,674.96 -1,045.99 6,744.90 0.00 0.00 0.00 0.00 14,200.00 90.11 179.72 7,637.54 -6,774.96 -1,045.49 6,844.38 0.00 0.00 0.00 0.00 14,400.00 90.11 179.72 7,637.14 -6,974.96 -1,044.99 6,943.86 0.00 0.00 0.00 0.00 14,400.00 90.11 179.72 7,637.14 -6,974.96 -1,044.50 7,043.34 0.00 0.00 0.00 0.00 14,600.00 90.11 179.72 7,636.94 -7,074.96 -1,044.50 7,043.34 0.00 0.00 0.00 0.00 14,600.00 90.11 179.72 7,636.94 -7,174.96 -1,044.00 7,142.82 0.00 0.00 0.00 0.00 14,600.00 90.11 179.72 7,636.54 -7,274.96 -1,044.50 7,242.30 0.00 0.00 0.00 0.00 14,800.00 90.11 179.72 7,636.54 -7,274.96 -1,043.50 7,242.30 0.00 0.00 0.00 0.00 14,800.00 90.11 179.72 7,636.54 -7,274.96 -1,043.50 7,242.30 0.00 0.00 0.00 0.00 14,800.00 90.11 179.72 7,636.54 -7,274.96 -1,043.50 7,242.30 0.00 0.00 0.00 0.00 14,800.00 90.11 179.72 7,636.54 -7,274.96 -1,043.50 7,242.30 0.00 0.00 0.00 0.00 14,900.00 90.11 179.72 7,636.54 -7,274.96 -1,043.50 7,242.30 0.00 0.00 0.00 0.00 15,000.00 90.11 179.72 7,635.94 -7,574.95 -1,042.51 7,441.26 0.00 0.00 0.00 0.00 15,000.00 90.11 179.72 7,635.54 -7,574.95 -1,042.51 7,441.26 0.00 0.00 0.00 0.00 15,000.00 90.11 179.72 7,635.54 -7,774.95 -1,040.02 7,383.18 0.00 0.00 0.00 15,000.00 90.11 179.72 7,635.54 -7,774.95 -1,040.02 7,383.18 0.00 0.00 0.00 15,000.00 90.11 179.72 7,635.54 -7,774.95 -1,040.03 7,938.66 0.00 0.00 0.00 0.00 15,000.00 90.11 179.72 7,635.44 -7,874.95 -1,040.03 7,938.66 0.00 0.00 0.00 0.00 15,000.00 90.11 179.72 7,635.44 -7,874.95 -1,040.03 7,938.66 0.00 0.00 0.00 0.00 15,000.00 90.11 179.72 7,635.44 -8,074.94 -1,039.03 8,137.62 0.00 0.00 0.00 0.00										•
13,700.00       90.11       179.72       7,638.54       -6,274.97       -1,047.97       6,346.98       0.00       0.00       0.00         13,800.00       90.11       179.72       7,638.34       -6,374.97       -1,047.48       6,446.46       0.00       0.00       0.00         13,900.00       90.11       179.72       7,637.94       -6,574.97       -1,046.48       6,645.42       0.00       0.00       0.00         14,000.00       90.11       179.72       7,637.94       -6,574.96       -1,046.48       6,645.42       0.00       0.00       0.00         14,100.00       90.11       179.72       7,637.54       -6,674.96       -1,045.99       6,744.90       0.00       0.00       0.00         14,200.00       90.11       179.72       7,637.54       -6,774.96       -1,045.49       6,844.38       0.00       0.00       0.00         14,300.00       90.11       179.72       7,637.34       -6,874.96       -1,044.99       6,943.86       0.00       0.00       0.00         14,500.00       90.11       179.72       7,636.94       -7,074.96       -1,044.50       7,428.22       0.00       0.00       0.00         14,600.00       90.11       179.72 <td>13,500.00</td> <td></td> <td></td> <td></td> <td>-6,074.97</td> <td>-1,048.97</td> <td></td> <td></td> <td></td> <td>0.00</td>	13,500.00				-6,074.97	-1,048.97				0.00
13,700.00       90.11       179.72       7,638.54       -6,274.97       -1,047.97       6,346.98       0.00       0.00       0.00         13,800.00       90.11       179.72       7,638.34       -6,374.97       -1,047.48       6,446.46       0.00       0.00       0.00         13,900.00       90.11       179.72       7,637.94       -6,574.97       -1,046.48       6,645.42       0.00       0.00       0.00         14,000.00       90.11       179.72       7,637.94       -6,574.96       -1,046.48       6,645.42       0.00       0.00       0.00         14,100.00       90.11       179.72       7,637.54       -6,674.96       -1,045.99       6,744.90       0.00       0.00       0.00         14,200.00       90.11       179.72       7,637.54       -6,774.96       -1,045.49       6,844.38       0.00       0.00       0.00         14,300.00       90.11       179.72       7,637.34       -6,874.96       -1,044.99       6,943.86       0.00       0.00       0.00         14,500.00       90.11       179.72       7,636.94       -7,074.96       -1,044.50       7,428.22       0.00       0.00       0.00         14,600.00       90.11       179.72 <td>13,600.00</td> <td>90.11</td> <td>179.72</td> <td>7,638.74</td> <td>-6,174.97</td> <td>-1,048.47</td> <td>6,247.50</td> <td>0.00</td> <td>0.00</td> <td>0.00</td>	13,600.00	90.11	179.72	7,638.74	-6,174.97	-1,048.47	6,247.50	0.00	0.00	0.00
13,800,00       90.11       179.72       7,638.34       -6,374.97       -1,047.48       6,446.46       0.00       0.00       0.00         13,900.00       90.11       179.72       7,638.14       -6,474.97       -1,046.98       6,545.94       0.00       0.00       0.00         14,000.00       90.11       179.72       7,637.94       -6,674.96       -1,045.99       6,744.90       0.00       0.00       0.00         14,100.00       90.11       179.72       7,637.54       -6,674.96       -1,045.99       6,744.90       0.00       0.00       0.00         14,200.00       90.11       179.72       7,637.34       -6,674.96       -1,045.99       6,744.90       0.00       0.00       0.00         14,300.00       90.11       179.72       7,637.34       -6,774.96       -1,044.99       6,943.86       0.00       0.00       0.00         14,400.00       90.11       179.72       7,636.94       -7,074.96       -1,044.50       7,043.34       0.00       0.00       0.00         14,500.00       90.11       179.72       7,636.74       -7,174.96       -1,044.00       7,142.82       0.00       0.00       0.00         14,700.00       90.11       179.72 <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	1									
13,900.00       90.11       179.72       7,638.14       -6,474.97       -1,046.98       6,545.94       0.00       0.00       0.00         14,000.00       90.11       179.72       7,637.94       -6,574.97       -1,046.48       6,645.42       0.00       0.00       0.00         14,100.00       90.11       179.72       7,637.74       -6,674.96       -1,045.99       6,744.90       0.00       0.00       0.00         14,200.00       90.11       179.72       7,637.54       -6,774.96       -1,045.49       6,844.38       0.00       0.00       0.00         14,300.00       90.11       179.72       7,637.14       -6,974.96       -1,044.99       6,943.86       0.00       0.00       0.00         14,400.00       90.11       179.72       7,636.74       -7,074.96       -1,044.50       7,043.34       0.00       0.00       0.00         14,500.00       90.11       179.72       7,636.94       -7,074.96       -1,044.00       7,142.82       0.00       0.00       0.00         14,600.00       90.11       179.72       7,636.94       -7,274.96       -1,043.50       7,242.30       0.00       0.00       0.00         14,800.00       90.11       179.72 <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	1									
14,000.00       90.11       179.72       7,637.94       -6,574.97       -1,046.48       6,645.42       0.00       0.00       0.00         14,100.00       90.11       179.72       7,637.74       -6,674.96       -1,045.99       6,744.90       0.00       0.00       0.00         14,200.00       90.11       179.72       7,637.54       -6,774.96       -1,045.49       6,844.38       0.00       0.00       0.00         14,300.00       90.11       179.72       7,637.34       -6,874.96       -1,044.99       6,943.86       0.00       0.00       0.00         14,500.00       90.11       179.72       7,636.94       -7,074.96       -1,044.50       7,043.34       0.00       0.00       0.00         14,600.00       90.11       179.72       7,636.94       -7,074.96       -1,044.00       7,142.82       0.00       0.00       0.00         14,700.00       90.11       179.72       7,636.74       -7,174.96       -1,043.50       7,242.30       0.00       0.00       0.00         14,800.00       90.11       179.72       7,636.54       -7,274.96       -1,043.50       7,341.78       0.00       0.00       0.00         14,900.00       90.11       179.72 <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	1									
14,100.00       90.11       179.72       7,637.74       -6,674.96       -1,045.99       6,744.90       0.00       0.00       0.00         14,200.00       90.11       179.72       7,637.54       -6,774.96       -1,045.49       6,844.38       0.00       0.00       0.00         14,300.00       90.11       179.72       7,637.14       -6,974.96       -1,044.99       6,943.86       0.00       0.00       0.00         14,400.00       90.11       179.72       7,636.94       -7,074.96       -1,044.50       7,043.34       0.00       0.00       0.00         14,600.00       90.11       179.72       7,636.94       -7,074.96       -1,044.00       7,142.82       0.00       0.00       0.00         14,700.00       90.11       179.72       7,636.54       -7,274.96       -1,043.01       7,341.78       0.00       0.00       0.00         14,800.00       90.11       179.72       7,636.34       -7,374.95       -1,042.51       7,441.26       0.00       0.00       0.00         15,000.00       90.11       179.72       7,635.94       -7,574.95       -1,042.51       7,441.26       0.00       0.00       0.00         15,000.00       90.11       179.72 <td>13,900.00</td> <td>50.11</td> <td>113.12</td> <td>7,030.14</td> <td>~U,~r,~*.31</td> <td>-1,040.30</td> <td>0,070.04</td> <td>0.00</td> <td>0.00</td> <td>0.00</td>	13,900.00	50.11	113.12	7,030.14	~U,~r,~*.31	-1,040.30	0,070.04	0.00	0.00	0.00
14,100.00       90.11       179.72       7,637.74       -6,674.96       -1,045.99       6,744.90       0.00       0.00       0.00         14,200.00       90.11       179.72       7,637.54       -6,774.96       -1,045.49       6,844.38       0.00       0.00       0.00         14,300.00       90.11       179.72       7,637.14       -6,974.96       -1,044.99       6,943.86       0.00       0.00       0.00         14,400.00       90.11       179.72       7,636.94       -7,074.96       -1,044.50       7,043.34       0.00       0.00       0.00         14,600.00       90.11       179.72       7,636.94       -7,074.96       -1,044.00       7,142.82       0.00       0.00       0.00         14,700.00       90.11       179.72       7,636.54       -7,274.96       -1,043.01       7,341.78       0.00       0.00       0.00         14,800.00       90.11       179.72       7,636.34       -7,374.95       -1,042.51       7,441.26       0.00       0.00       0.00         15,000.00       90.11       179.72       7,635.94       -7,574.95       -1,042.51       7,441.26       0.00       0.00       0.00         15,000.00       90.11       179.72 <td>14.000.00</td> <td>90,11</td> <td>179.72</td> <td>7,637.94</td> <td>-6,574.97</td> <td>-1,046.48</td> <td>6,645.42</td> <td>0.00</td> <td>0.00</td> <td>0.00</td>	14.000.00	90,11	179.72	7,637.94	-6,574.97	-1,046.48	6,645.42	0.00	0.00	0.00
14,200.00       90.11       179.72       7,637.54       -6,774.96       -1,045.49       6,844.38       0.00       0.00       0.00         14,300.00       90.11       179.72       7,637.34       -6,874.96       -1,044.99       6,943.86       0.00       0.00       0.00         14,400.00       90.11       179.72       7,636.94       -7,074.96       -1,044.50       7,043.34       0.00       0.00       0.00         14,500.00       90.11       179.72       7,636.94       -7,074.96       -1,044.00       7,142.82       0.00       0.00       0.00         14,600.00       90.11       179.72       7,636.74       -7,174.96       -1,043.50       7,242.30       0.00       0.00       0.00         14,700.00       90.11       179.72       7,636.54       -7,274.96       -1,043.01       7,341.78       0.00       0.00       0.00         14,800.00       90.11       179.72       7,636.34       -7,374.95       -1,042.51       7,441.26       0.00       0.00       0.00         15,000.00       90.11       179.72       7,635.94       -7,574.95       -1,042.51       7,640.22       0.00       0.00       0.00         15,100.00       90.11       179.72 <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	1									
14,300.00       90.11       179.72       7,637.34       -6,874.96       -1,044.99       6,943.86       0.00       0.00       0.00         14,400.00       90.11       179.72       7,637.14       -6,974.96       -1,044.50       7,043.34       0.00       0.00       0.00         14,500.00       90.11       179.72       7,636.94       -7,074.96       -1,044.00       7,142.82       0.00       0.00       0.00         14,600.00       90.11       179.72       7,636.74       -7,174.96       -1,043.50       7,242.30       0.00       0.00       0.00         14,700.00       90.11       179.72       7,636.54       -7,274.96       -1,043.01       7,341.78       0.00       0.00       0.00         14,800.00       90.11       179.72       7,636.34       -7,374.95       -1,042.51       7,441.26       0.00       0.00       0.00         14,900.00       90.11       179.72       7,636.14       -7,574.95       -1,042.51       7,441.26       0.00       0.00       0.00         15,000.00       90.11       179.72       7,635.94       -7,574.95       -1,041.52       7,640.22       0.00       0.00       0.00         15,200.00       90.11       179.72 <td></td>										
14,400.00       90.11       179.72       7,637.14       -8,974.96       -1,044.50       7,043.34       0.00       0.00       0.00         14,500.00       90.11       179.72       7,636.94       -7,074.96       -1,044.00       7,142.82       0.00       0.00       0.00         14,600.00       90.11       179.72       7,636.74       -7,174.96       -1,043.50       7,242.30       0.00       0.00       0.00         14,700.00       90.11       179.72       7,636.54       -7,274.96       -1,043.01       7,341.78       0.00       0.00       0.00         14,800.00       90.11       179.72       7,636.34       -7,374.95       -1,042.51       7,441.26       0.00       0.00       0.00         14,900.00       90.11       179.72       7,636.14       -7,474.95       -1,042.51       7,441.26       0.00       0.00       0.00         15,000.00       90.11       179.72       7,635.94       -7,574.95       -1,041.52       7,640.22       0.00       0.00       0.00         15,200.00       90.11       179.72       7,635.54       -7,774.95       -1,041.02       7,739.70       0.00       0.00       0.00         15,300.00       90.11       179.72 <td></td>										
$\begin{array}{cccccccccccccccccccccccccccccccccccc$					,					
14,600.00       90.11       179.72       7,636.74       -7,174.96       -1,043.50       7,242.30       0.00       0.00       0.00         14,700.00       90.11       179.72       7,636.54       -7,274.96       -1,043.01       7,341.78       0.00       0.00       0.00         14,800.00       90.11       179.72       7,636.34       -7,374.95       -1,042.51       7,441.26       0.00       0.00       0.00         14,900.00       90.11       179.72       7,636.14       -7,474.95       -1,042.01       7,540.74       0.00       0.00       0.00         15,000.00       90.11       179.72       7,635.94       -7,574.95       -1,041.52       7,640.22       0.00       0.00       0.00         15,100.00       90.11       179.72       7,635.74       -7,674.95       -1,041.02       7,739.70       0.00       0.00       0.00         15,200.00       90.11       179.72       7,635.54       -7,774.95       -1,040.52       7,839.18       0.00       0.00       0.00         15,300.00       90.11       179.72       7,635.34       -7,874.95       -1,040.03       7,938.66       0.00       0.00       0.00         15,400.00       90.11       179.72 <td>14,400.00</td> <td>90.11</td> <td>179.72</td> <td>7,637.14</td> <td>-6,974.96</td> <td>-1,044.50</td> <td>7,043.34</td> <td>0.00</td> <td>0.00</td> <td>0.00</td>	14,400.00	90.11	179.72	7,637.14	-6,974.96	-1,044.50	7,043.34	0.00	0.00	0.00
14,600.00       90.11       179.72       7,636.74       -7,174.96       -1,043.50       7,242.30       0.00       0.00       0.00         14,700.00       90.11       179.72       7,636.54       -7,274.96       -1,043.01       7,341.78       0.00       0.00       0.00         14,800.00       90.11       179.72       7,636.34       -7,374.95       -1,042.51       7,441.26       0.00       0.00       0.00         14,900.00       90.11       179.72       7,636.14       -7,474.95       -1,042.01       7,540.74       0.00       0.00       0.00         15,000.00       90.11       179.72       7,635.94       -7,574.95       -1,041.52       7,640.22       0.00       0.00       0.00         15,100.00       90.11       179.72       7,635.74       -7,674.95       -1,041.02       7,739.70       0.00       0.00       0.00         15,200.00       90.11       179.72       7,635.54       -7,774.95       -1,040.52       7,839.18       0.00       0.00       0.00         15,300.00       90.11       179.72       7,635.34       -7,874.95       -1,040.03       7,938.66       0.00       0.00       0.00         15,400.00       90.11       179.72 <td>14 500 00</td> <td>00.44</td> <td>170.70</td> <td>7 626 04</td> <td>7.074.06</td> <td>1.044.00</td> <td>7 140 00</td> <td>0.00</td> <td>0.00</td> <td>0.00</td>	14 500 00	00.44	170.70	7 626 04	7.074.06	1.044.00	7 140 00	0.00	0.00	0.00
14,700.00       90.11       179.72       7,636.54       -7,274.96       -1,043.01       7,341.78       0.00       0.00       0.00         14,800.00       90.11       179.72       7,636.34       -7,374.95       -1,042.51       7,441.26       0.00       0.00       0.00         14,900.00       90.11       179.72       7,636.14       -7,474.95       -1,042.01       7,540.74       0.00       0.00       0.00         15,000.00       90.11       179.72       7,635.94       -7,574.95       -1,041.52       7,640.22       0.00       0.00       0.00         15,100.00       90.11       179.72       7,635.74       -7,674.95       -1,041.02       7,739.70       0.00       0.00       0.00         15,200.00       90.11       179.72       7,635.54       -7,774.95       -1,040.52       7,839.18       0.00       0.00       0.00         15,300.00       90.11       179.72       7,635.34       -7,874.95       -1,040.03       7,938.66       0.00       0.00       0.00         15,400.00       90.11       179.72       7,635.14       -7,974.95       -1,040.03       7,938.66       0.00       0.00       0.00         15,500.00       90.11       179.72 <td></td>										
14,800.00       90.11       179.72       7,636.34       -7,374.95       -1,042.51       7,441.26       0.00       0.00       0.00         14,900.00       90.11       179.72       7,636.14       -7,474.95       -1,042.01       7,540.74       0.00       0.00       0.00         15,000.00       90.11       179.72       7,635.94       -7,574.95       -1,041.52       7,640.22       0.00       0.00       0.00         15,100.00       90.11       179.72       7,635.74       -7,674.95       -1,041.02       7,739.70       0.00       0.00       0.00         15,200.00       90.11       179.72       7,635.54       -7,774.95       -1,040.52       7,839.18       0.00       0.00       0.00         15,300.00       90.11       179.72       7,635.34       -7,874.95       -1,040.03       7,938.66       0.00       0.00       0.00         15,400.00       90.11       179.72       7,635.14       -7,974.95       -1,039.53       8,038.14       0.00       0.00       0.00         15,500.00       90.11       179.72       7,634.94       -8,074.94       -1,039.03       8,137.62       0.00       0.00       0.00										
14,800.00       90.11       179.72       7,636.34       -7,374.95       -1,042.51       7,441.26       0.00       0.00       0.00         14,900.00       90.11       179.72       7,636.14       -7,474.95       -1,042.01       7,540.74       0.00       0.00       0.00         15,000.00       90.11       179.72       7,635.94       -7,574.95       -1,041.52       7,640.22       0.00       0.00       0.00         15,100.00       90.11       179.72       7,635.74       -7,674.95       -1,041.02       7,739.70       0.00       0.00       0.00         15,200.00       90.11       179.72       7,635.54       -7,774.95       -1,040.52       7,839.18       0.00       0.00       0.00         15,300.00       90.11       179.72       7,635.34       -7,874.95       -1,040.03       7,938.66       0.00       0.00       0.00         15,400.00       90.11       179.72       7,635.14       -7,974.95       -1,039.53       8,038.14       0.00       0.00       0.00         15,500.00       90.11       179.72       7,634.94       -8,074.94       -1,039.03       8,137.62       0.00       0.00       0.00	14,700.00	90.11	179.72	7,636.54	-7,274.96	-1,043.01	7,341.78	0.00	0.00	0.00
14,900.00     90.11     179.72     7,636.14     -7,474.95     -1,042.01     7,540.74     0.00     0.00     0.00       15,000.00     90.11     179.72     7,635.94     -7,574.95     -1,041.52     7,640.22     0.00     0.00     0.00       15,100.00     90.11     179.72     7,635.74     -7,674.95     -1,041.02     7,739.70     0.00     0.00     0.00       15,200.00     90.11     179.72     7,635.54     -7,774.95     -1,040.52     7,839.18     0.00     0.00     0.00       15,300.00     90.11     179.72     7,635.34     -7,874.95     -1,040.03     7,938.66     0.00     0.00     0.00       15,400.00     90.11     179.72     7,635.14     -7,974.95     -1,039.53     8,038.14     0.00     0.00     0.00       15,500.00     90.11     179.72     7,634.94     -8,074.94     -1,039.03     8,137.62     0.00     0.00     0.00	14.800.00	90.11	179.72	7,636.34	-7,374.95	-1,042,51	7,441.26	0.00	0.00	0.00
15,000.00     90.11     179.72     7,635.94     -7,574.95     -1,041.52     7,640.22     0.00     0.00     0.00       15,100.00     90.11     179.72     7,635.74     -7,674.95     -1,041.02     7,739.70     0.00     0.00     0.00       15,200.00     90.11     179.72     7,635.54     -7,774.95     -1,040.52     7,839.18     0.00     0.00     0.00       15,300.00     90.11     179.72     7,635.34     -7,874.95     -1,040.03     7,938.66     0.00     0.00     0.00       15,400.00     90.11     179.72     7,635.14     -7,974.95     -1,039.53     8,038.14     0.00     0.00     0.00       15,500.00     90.11     179.72     7,634.94     -8,074.94     -1,039.03     8,137.62     0.00     0.00     0.00										
15,100.00     90.11     179.72     7,635.74     -7,674.95     -1,041.02     7,739.70     0.00     0.00     0.00       15,200.00     90.11     179.72     7,635.54     -7,774.95     -1,040.52     7,839.18     0.00     0.00     0.00       15,300.00     90.11     179.72     7,635.34     -7,874.95     -1,040.03     7,938.66     0.00     0.00     0.00       15,400.00     90.11     179.72     7,635.14     -7,974.95     -1,039.53     8,038.14     0.00     0.00     0.00       15,500.00     90.11     179.72     7,634.94     -8,074.94     -1,039.03     8,137.62     0.00     0.00     0.00										
15,100.00     90.11     179.72     7,635.74     -7,674.95     -1,041.02     7,739.70     0.00     0.00     0.00       15,200.00     90.11     179.72     7,635.54     -7,774.95     -1,040.52     7,839.18     0.00     0.00     0.00       15,300.00     90.11     179.72     7,635.34     -7,874.95     -1,040.03     7,938.66     0.00     0.00     0.00       15,400.00     90.11     179.72     7,635.14     -7,974.95     -1,039.53     8,038.14     0.00     0.00     0.00       15,500.00     90.11     179.72     7,634.94     -8,074.94     -1,039.03     8,137.62     0.00     0.00     0.00	15,000,00	90.11	179.72	7,635.94	-7,574.95	-1,041.52	7,640.22	0.00	0.00	0.00
15,200.00     90.11     179.72     7,635.54     -7,774.95     -1,040.52     7,839.18     0.00     0.00     0.00       15,300.00     90.11     179.72     7,635.34     -7,874.95     -1,040.03     7,938.66     0.00     0.00     0.00       15,400.00     90.11     179.72     7,635.14     -7,974.95     -1,039.53     8,038.14     0.00     0.00     0.00       15,500.00     90.11     179.72     7,634.94     -8,074.94     -1,039.03     8,137.62     0.00     0.00     0.00										
15,300.00     90.11     179.72     7,635.34     -7,874.95     -1,040.03     7,938.66     0.00     0.00     0.00       15,400.00     90.11     179.72     7,635.14     -7,974.95     -1,039.53     8,038.14     0.00     0.00     0.00       15,500.00     90.11     179.72     7,634.94     -8,074.94     -1,039.03     8,137.62     0.00     0.00     0.00										
15,400.00 90.11 179.72 7,635.14 -7,974.95 -1,039.53 8,038.14 0.00 0.00 0.00 15,500.00 90.11 179.72 7,634.94 -8,074.94 -1,039.03 8,137.62 0.00 0.00 0.00	1									
15,500.00 90.11 179.72 7,634.94 -8,074.94 -1,039.03 8,137.62 0.00 0.00 0.00										
	15,400.00	90.11	179.72	7,635.14	-7,974.95	-1,039.53	8,038.14	0.00	0.00	0.00
	45 500 00		470.70	7.004.04	0.074.04	4 000 00	0.407.00	0.00	0.00	0.00
<u>15,600.00</u> 90.11 179.72 7,634.74 -8,174.94 -1,038.53 8,237.10 0.00 0.00 0.00										
	15,600.00	90.11	179.72	7,634.74	-8,174.94	-1,038.53	8,237.10	0.00	0.00	0.00

#### Planning Report

HOPSPP

ENGINEERING DESIGNS

PRD NM DIRECTIONAL PLANS (NAD 1983)

Width CC 6\_7 Federal Com 15H

Database: HOPSPP
Company: ENGINEERING
PRD NM DIREC
Site: Width CC 6\_7
Well Width CC 6\_7 Fe
Wellbore: Wellbore #1
Design: Permitting Plan

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

Well Width CC 6\_7 Federal Com 15H

RKB=26.5' @ 2986.50ft RKB=26.5' @ 2986.50ft

Grid

Design And And And And And And And And And An		special branch star carriers as feature	The state of the s	- Pallilla	The Carlot Mar	erinalities histo	-		
Planned Survey			***************************************		ALL SERVICES	The state of the s			ALTERNATION OF THE PROPERTY OF
								"自然"。 第二次第二次第二次	2000年代表
Measured		<b>"</b> "	Vertical .			Vertical	Dogleg.	Build	Turn Rate
		Azimuth	Depth (ft)	. +N/-S	#E/-W	≛Section (°) ≽. (ft)	(°/100ft) (	Rate (100ft)	*/100ft)
(m)	COLUMN TO			(ft) x .	(ff)	(中国) (1)			<b>从""。"现"</b> 。
15,700.00	90.11	179.72	7,634.54	-8,274.94	, -1,038.04	8,336.58	0.00	0.00	0.00
15,800.00	90.11	179,72	7,634.34	-8,374.94	-1,037,54	8,436.06	0.00	0.00	0.00
15,900.00	90.11	179.72	7,634.14	-8,474.94	-1,037.04	8,535.54	0.00	0.00	0.00
16,000.00	90.11	179.72	7,633.94	-8,574.94	-1,036.55	8,635.02	0.00	0.00	0.00
16,100.00	90.11	179.72	7,633.74	-8,674.94	-1,036.05	8,734.50	0.00	0.00	0.00
16,200.00	90.11	179.72	7,633.54	-8,774.93	-1,035.55	8,833.98	0.00	0.00	0.00
16,300.00	90.11	179.72	7,633.34	-8,874.93	-1,035.06	8,933.46	0.00	0.00	0.00
16,400.00	90.11	1,79.72	7,633.14	-8,974.93	-1,034.56	9,032.94	0.00	0:00	0.00
16,500.00	90.11	179.72	7,632.94	-9,074.93	-1,034.06	9,132.42	0.00	0.00	0.00
16,600.00	90.11	179.72	7,632.74	-9,174.93	-1,033.57	9,231.90	0.00	0.00	0.00
16,700.00	90.11	179.72	7,632.54	-9,274.93	-1,033.07	9,331.38	0.00	0.00	0.00
16,800.00	90.11	179.72	7,632.34	-9,374.93	-1,032.57	9,430.86	0.00	0.00	0.00
16,900.00	90.11	179.72	7,632.14	-9,474.92	-1,032.08	9,530.34	0.00	0.00	0.00
17,000.00	90.11	179.72	7,631.94	-9,574.92	-1,031.58	9,629.82	0.00	0.00	0.00
17,100.00	90.11	179.72	7,631.74	-9,674.92	-1,031.08	9,729.30	0.00	0.00	0.00
17,200.00	90.11	179.72	7,631.55	-9,774.92	-1,030.59	9,828.78	0.00	0.00	0.00
17,300.00	90.11	. 179.72	7,631.35	-9,874.92	-1,030.09	9,928.26	0.00	0.00	0.00
17,400.00	90.11	179.72	7,631.15	-9,974.92	-1,029.59	10,027.74	0.00	0.00	0.00
17,500.00	90.11	179.72	7,630.95	-10,074.91	-1,029.10	10,127.22	0.00	0.00	0.00
17,600.00	90.11	179.72	7,630.75	-10,174.91	-1,028.60	10,226.70	0.00	0.00	0.00
17,700.00	90.11	179.72	7,630.55	-10,274.91	-1,028.10	10,326.18	0.00	0.00	0.00
17,800.00	90.11	179.72	7,630.35	-10,374.91	-1,027.61	10,425.66	0.00	0.00	0.00
17,900.00	90.11	179.72	7,630.15	-10,474.91	-1,027.11	10,525.14	0.00	0.00	0.00
. 17,973.52	90.11	179.72	7,630.00	-10,548.43	-1,026.74	10,598.28	0.00	0.00	0.00
L									

Design-Targets  Target:Name hit/miss-target/ Oip/	Angle Di	p Dir. (3)		+N/S (ft)		Northing (usft)	Easting (usit) Latitude	Longitude
PBHL (Width CC 6_7 - plan hits target center - Point	0.00	0.00	7,630.00	-10,548.43	-1,026.74	445,744.32	637,463.27 32° 13' 30.162953 N	104° 1' 20.918139
FTP (Width CC 6_7 - plan misses target cent - Point	0.00 er by 328.07		7,650.00 8.30ft MD	-27.40 (7437.96 TVE	,	456,264.48 -1077.77 E)	637,411.01 32° 15' 14.270845 N	104° 1' 21.172143

Plan Annotations	ELECTION (IA ESPERANCIA)	STATE OF THE PROPERTY OF THE P	ar will die malechart erit die viz demy en. Vales	BROWNERS CONTROL OF CO
	THE PROPERTY OF THE PARTY OF TH			
Measured	Vertical	Local Coord	linates	
Depth	· Deptn	+'N/-S → -	**************************************	
		(ft), 18, 28, 28, 28, 28, 28, 28, 28, 28, 28, 2	(ft)	Comment
2,859.00	2,859.00	0.00	0.00	Build 2.00°/100'
3,759.01	3,744.28	3.05	-140.18	Hold 18.00° Tangent
6,148.20	6,016.53	19.11	-878.31	Turn 2.00°/100'
7,427.37	7,253.72	-177.51	-1,078.26	KOP, Build 10.00°/100'
8,148.52	7,649.62	-723.57	-1,075.55	Landing Point
17,973.52	7,630.00	-10,548.43	-1,026.74	TD at 17973.52' MD



Project: PRD NM DIRECTIONAL PLANS (NAD 1983)

Site: Width CC 6\_7

Well: Width CC 6\_7 Federal Com 15H

Wellbore: Wellbore #1
Design: Permitting Plan

PROJECT DETAILS: NM DIRECTIONAL PLANS (NAD 1983)

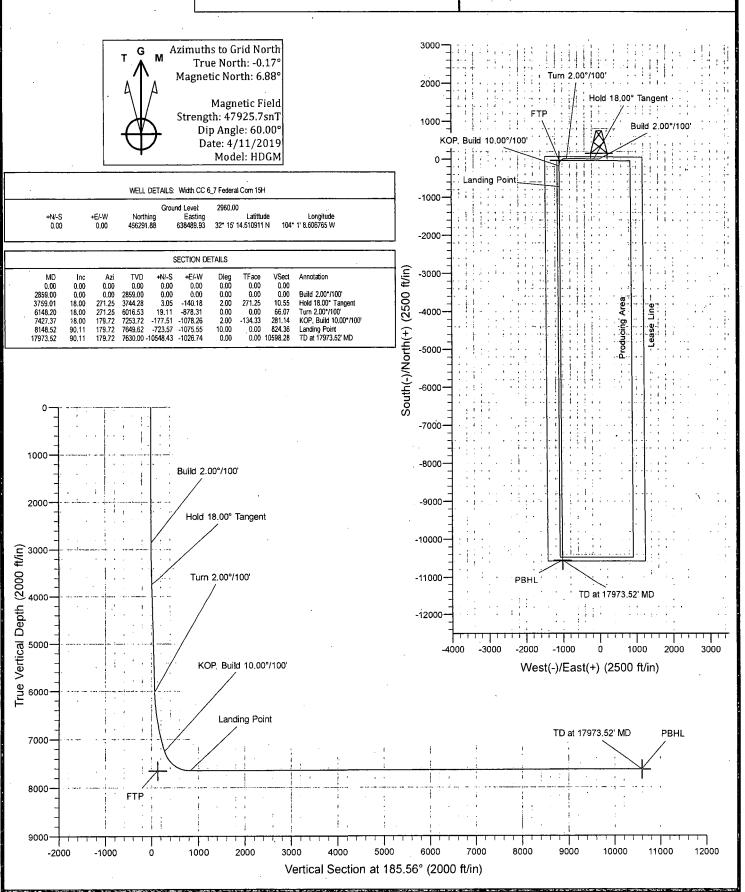
Geodetic System: US State Plane 1983

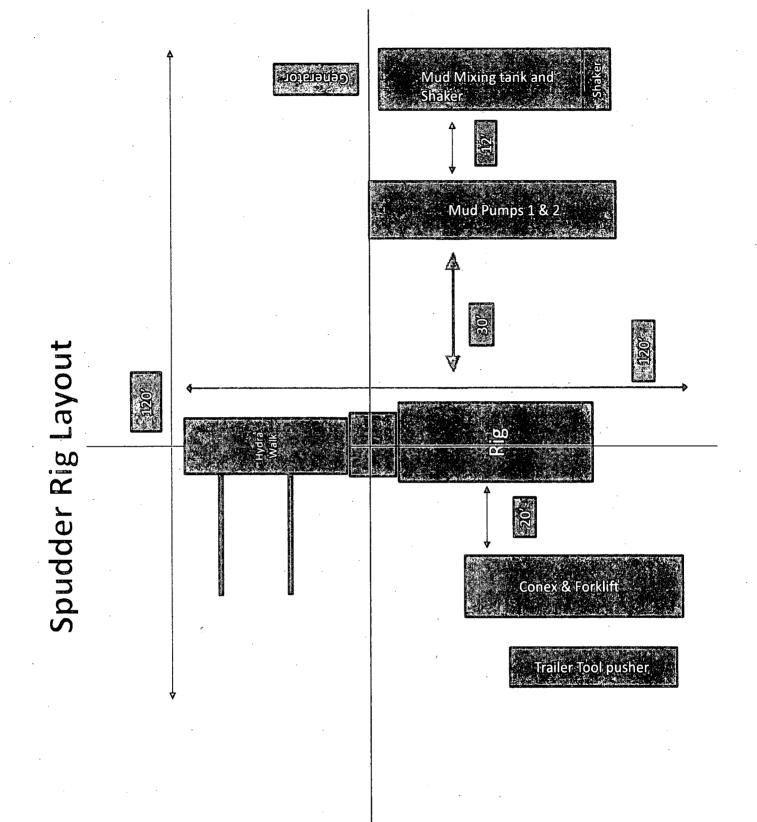
Datum: North American Datum 1983

Ellipsoid: GRS 1980

Zone: New Mexico Eastern Zone

System Datum: Mean Sea Level





# **PERFORMANCE DATA**

# TMK UP DQX **Technical Data Sheet**

5.500 in

20.00 lbs/ft

P-110

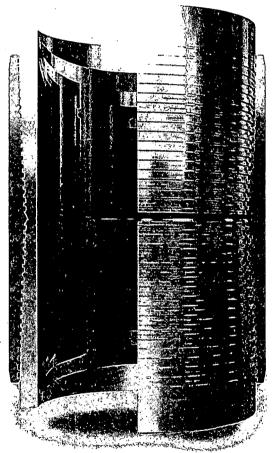
Tubular Parameters							
Size	5.500	in					
Nominal Weight	20.00 ′	lbs/ft					
Grade	P-110						
PE Weight	19.81	lbs/ft					
Wall Thickness	0.361	in					
Nominal ID	4.778	in					
Drift Diameter	4.653	in					
Nom. Pipe Body Area	5.828	in <sup>2</sup>					

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			•

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. Makê-Up Torque	14,100	ft-lbs					
Yield Torque	20,600	ft-lbs					

Printed on: July-29-2014



#### NOTE:

The content of this Technical Data Sheet is for general information only and does not guarantee performance or imply fitness for a particular purpose, which only a competent drilling professional can determine considering the specific installation and operation parameters. Information that is printed or downloaded is no longer controlled by TMK IPSCO and might not be the latest information. Anyone using the information herein does so at their own risk. To verify that you have the latest TMK IPSCO technical information, please contact TMK IPSCO Technical Sales toll-free at 1-888-258-2000.



# PERFORMANCE DATA

# TMK UP SF TORQ™ **Technical Data Sheet**

5.500 in

4.778

4.653

5.828

lin

lin

in²

20.00 lbs/ft

P110 HC

Tubular Parameters	}				
Size	5.500	in	Minimum Yield	110,000	psi
Nominal Weight	20.00	lbs/ft	Minimum Tensile	125,000	psi
Grade	P110 HC		Yield Load	641,000	lbs
PE Weight	19.81	lbs/ft	Tensile Load	728,000	lbs
Wall Thickness	0.361	in	Min. Internal Yield Pressure	12,640	psi

**Drift Diameter** 

Nominal ID

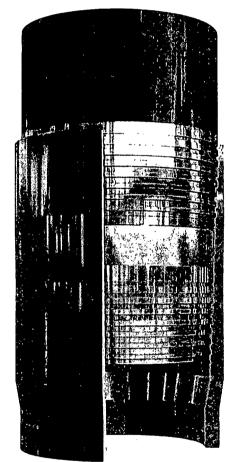
Nom. Pipe Body Area

Minimum Tensile
Yield Load
Tensile Load
Min. Internal Yield Pressure
Collapse Pressure

12,640 psi 12,780 psi

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	ft-lbs



Printed on: February-22-2018

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# PERFORMANCE DATA

TMK UP TORQ™ DQW Technical Data Sheet

5.500 in

20.00 lbs/ft

P110 CY

┰.	. 1.	 	<b>n</b> -	 	 

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

in²

5.828

Cannac	tion	Parameters
Lonner	TION	Parameters

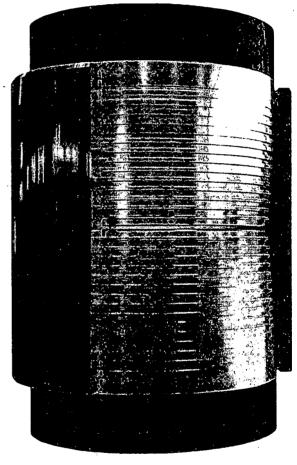
Nom. Pipe Body Area

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 <sup>·</sup>	%
Compression Efficiency	100.0	%
Yield Load In Tension	641,000	lbs
Min. Internal Yield Pressure	12,640	psi
Collapse Pressure	11,110	psi
Uniaxial Bending	92	°/ 100 ft

Make-Up	Torques
---------	---------

mane op . o. quee		
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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