Form 3160-5 (June 2015)

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

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

5. Lease Serial No. NMNM0545035

SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill or to re-enter an

	o. II Iliquali.	, Allottee or Tribe Name			
SUBMIT IN	TRIPLICATE - Other instructi	ons on page 2	7. If Unit or	r CA/Agreement, Name and/or No.	
Type of Well	ner		8. Well Nan PURE G	ne and No. GOLD MDP1 29-17 FED COM 1H	
Name of Operator     OXY USA INCORPORATED	Contact: SARA E-Mail: SARAH_CHAPM	AH CHAPMAN IAN@OXY.COM	9. API Well 30-015	I No. -45645-00-X1	
3a. Address 5 GREENWAY PLAZA SUITE HOUSTON, TX 77046-0521	5 GREENWAY PLAZA SUITE 110 Ph: 713-350-4997 HOUSTON, TX 77046-0521				
4. Location of Well (Footage, Sec., T	11. County	or Parish, State			
Sec 29 T23S R31E SWSW 69 32.270073 N Lat, 103.805382	OFSL 920FWL CATESDE	nd Presia	EDDY	COUNTY, NM	
12. CHECK THE AF	PPROPRIATE BOX(ES) TO I	NDICATE NATURE OI	F NOTICE, REPORT,	OR OTHER DATA	
TYPE OF SUBMISSION		TYPE OF	ACTION		
Notice of Intent     ■	☐ Acidize	□ Deepen	☐ Production (Start/Re	sume)	
	☐ Alter Casing	☐ Hydraulic Fracturing	□ Reclamation	■ Well Integrity	
☐ Subsequent Report	□ Casing Repair	■ New Construction	☐ Recomplete	<b>⊠</b> Other	
☐ Final Abandonment Notice	☐ Change Plans	Plug and Abandon	☐ Temporarily Abando	Change to Original A	
r	☐ Convert to Injection	☐ Plug Back	■ Water Disposal	· -	
following completion of the involved testing has been completed. Final Ab determined that the site is ready for fi	andonment Notices must be filed only	a multiple completion or recor after all requirements, includi	mpletion in a new interval, a ng reclamation, have been co	Form 3160-4 must be filed once impleted and the operator has	
OAT OSA ITIC respectfully requ	uests to amend the approved A	PD for the following chai	nges:	•	
Change from 3 string to 4 st Casing program updated Cementing program updated Mud program updated  .	ring casing design			<b>RECEIVE</b> D  APR <b>2</b> 5 2019	
Change from 3 string to 4 st Casing program updated Cementing program updated	ring casing design			RECEIVED  APR 2 5 2019	
Change from 3 string to 4 st Casing program updated Cementing program updated Mud program updated	ring casing design	PD for the following char		APR <b>2</b> 5 2019	
Change from 3 string to 4 st Casing program updated Cementing program updated Mud program updated      Add the TORQ DQW Design	ring casing design	Accepted for record	PNMOCD	APR <b>2</b> 5 2019	
Change from 3 string to 4 st Casing program updated Cementing program updated Mud program updated      Add the TORQ DQW Design 3. BOP table updated.      Add sacrificial wellhead  14. I hereby certify that the foregoing is	true and correct.  Electronic Submission #45716  For OXY USA INCO	Accepted for record.  SEE A  CONDITION  Verified by the BLM Well RPORATED, sent to the	NMOCD  TTACHED FOR  NS OF APPROVAL  Information System Carlsbad	APR 2 5 2019  DISTRICT II-ARTESIA O.C.D.	
Change from 3 string to 4 st Casing program updated Cementing program updated Mud program updated      Add the TORQ DQW Design 3. BOP table updated.      Add sacrificial wellhead  14. I hereby certify that the foregoing is	true and correct. Electronic Submission #457167 For OXY USA INCO mitted to AFMSS for processing	Accepted for record.  SEE A  CONDITION  Verified by the BLM Well RPORATED, sent to the color of	NMOCD  TTACHED FOR  NS OF APPROVAL  Information System Carlsbad	APR 2 5 2019  DISTRICT II-ARTESIA O.C.D.	
Change from 3 string to 4 string program updated Cementing program updated Mud program updated      Add the TORQ DQW Design     BOP table updated.      Add sacrificial wellhead      Thereby certify that the foregoing is	true and correct. Electronic Submission #45716; For OXY USA INCO mitted to AFMSS for processing	Accepted for record.  SEE A  CONDITION  Verified by the BLM Well RPORATED, sent to the color of	NMOCD  TTACHED FOR  TTACHED FOR  NNS OF APPROVAL  Information System Carlsbad 03/06/2019 (19PP1284S)  ATORY ADVISOR	APR 2 5 2019  DISTRICT II-ARTESIA O.C.D.	
1. Change from 3 string to 4 st Casing program updated Cementing program updated Mud program updated  2. Add the TORQ DQW Design  3. BOP table updated.  4. Add sacrificial wellhead  14. I hereby certify that the foregoing is  Com  Name (Printed/Typed) DAVID ST	true and correct. Electronic Submission #45716; For OXY USA INCO mitted to AFMSS for processing	SEE A  CONDITION  Verified by the BLM Well RPORATED, sent to the Color by PRISCILLA PEREZ on  Title REGULA  Date 03/06/20	PNMOCD  TTACHED FOR  TTACHED FOR  INS OF APPROVAL  Information System Carlsbad 03/06/2019 (19PP1284S)  ATORY ADVISOR	APR 2 5 2019  DISTRICT II-ARTESIA O.C.D.	
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# Additional data for EC transaction #457167 that would not fit on the form

#### 32. Additional remarks, continued

Please see updated drill plan, DQW TORG specs and sacrificial wellhead attachments for more information.

#### 1. Geologic Formations

TVD of target	9875'	Pilot Hole Depth	N/A
MD at TD:	. 22671'	Deepest Expected fresh water:	387'

#### **Delaware Basin**

Formation	TVD - RKB	<b>Expected Fluids</b>
Rustler	387	
Salado	721	Brine
Castile	2,605	Brine
Lamar/Delaware	4,096	Brine
Bell Canyon	4,128	Oil/Gas
Cherry Canyon	5,017	Oil/Gas
Brushy Canyon	6,288	Losses
Bone Spring	7,965	Oil/Gas
1st Bone Spring	, 8,997	Oil/Gas
2nd Bone Spring	9,259	Oil/Gas

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

#### 2. Casing Program

									Buoyant	Buoyant
Hole Size (in)	Casing In	lerval .	Cs g. Size	Weight'	Grade	Conn:	C. CASF LASA		BodySF	Joint SF
Hole/Size (BI)	From (ft)	To'(ft)	(in)	(lbs)	Gride	Conn.	Collapse	SF Burst	Tension	Tension
. 17.5		670	13,375	54.5	J-55	BTC	1.125	1.2	1.4	1.4
12.25	0	4200	9.625	43.5	L-80	BTC	1.125	1.2	1,4	. 1.4
- 8.5	0	9269	7.625	26.4	L-80 HC	SF (0 ft to 4100 ft) FJ (4100 ft to 9269 ft)	1.125	1.2	1.4	1.4
6.75	0	22671	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

<sup>\*</sup>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.

<sup>\*</sup>Oxy requests the option to run production casing with DQX, SF TORQ, and/or DQX TORQ (name changing to TORQ DQW) 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.

The state of the s					
	Y or N				
Is casing new? If used, attach certification as required in Onshore Order #1					
Does casing meet API specifications? If no, attach casing specification sheet.	Y				
Is premium or uncommon casing planned? If yes attach casing specification sheet.	Y				
Does the above casing design meet or exceed BLM's minimum standards? If not provide					
justification (loading assumptions, casing design criteria).	Y				
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching					
the collapse pressure rating of the casing?	Y				
THE RESERVE THE RESERVE OF THE PROPERTY OF A LABOR TO THE STREET OF THE PROPERTY OF THE PROPER	<u> </u>				
Is well located within Capitan Reef?	N				
If yes, does production casing cement tie back a minimum of 50' above the Reef?					
Is well within the designated 4 string boundary.					
Is well located in SOPA but not in R-111-P?	N				
If yes, are the first 2 strings cemented to surface and 3 <sup>rd</sup> string cement tied back					
500' into previous casing?					
	7.17.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.				
Is well located in R-111-P and SOPA?	Y				
If yes, are the first three strings cemented to surface?	Y				
Is 2 <sup>nd</sup> string set 100' to 600' below the base of salt?	Y				
	. T E 1 = 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2				
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. (fi3/sack)	H20 (gal/sk))_	500# Comp Strength (hours)	Slurry Description
Surface (Lead)	N/A	N/A	N/A	N/A	N/A	N/A
Surface (Tail)	711	14.8	1.33	6.365	5:26	Class C Cement, Accelerator
Intermediate (Lead)	887	12.9	1.88	10.130	14:22	Pozzolan Cement, Retarder
Intermediate (Tail)	155	14.8	1.33	6.370	12:45	Class C Cement, Accelerator
Intermediate II 1st Stage (Lead)	N/A	N/A	N/A	N/A	N/A	N/A
Intermediate II 1st Stage (Tail)	134	13.2	1.65	8.640	11:54	Class H Cement, Retarder, Dispersant, Salt
			as Bradenhea	d Squeeze fro	m surface, do	own the Intermediate annulus
Intermediate II 2nd Stage (Lead)	N/A	N/A	N/A	N/A	N/A	N/A
Intermediate II 2nd Stage (Tail)	344	12.8	1.92	10.410	23:10	Class C Cement, Accelerator
Production (Lead)	N/A	N/A	N/A	N/A	N/A	N/A
Production (Tail)	1018	13.2	1.38	6.686	3:49	Class H Cement, Retarder, Dispersant; Salt

Casing String	Top (ft)	Bottom (ft)	% Excess
Surface (Lead)	N/A	N/A	N/A
Surface (Tail)	0	670	100%
Intermediate (Lead)	0	3700	50%
Intermediate (Tail)	3700	4200	20%
Intermediate II 1st Stage (Lead)	N/A	N/A	N/A
Intermediate II 1st Stage (Tail)	.6538	9269	5%
Intermediate II 2nd Stage (Lead)	N/A	· N/A	N/A
Intermediate II 2nd Stage (Tail)	0	. 6538	25%
Production (Lead)	N/A	N/A	N/A
Production (Tail)	8769	22671	20%

# 4. Pressure Control Equipment

BOP installed and lested before drilling which hole?	Size?	Min. Required	Ţy <b>p</b>		A A	Testedito:	
		3M	Annul	ar	<b>4</b>	70% of working pressure	
12.25" Hole	13-5/8"		Blind R	am	1		
12.23 11016	13-3/6	3 M	Pipe Ra	am		250 ' / 2000 '	
		21/1	Double I	Ram	1	250 psi / 3000 psi	
			Other*				
		3M	Annul	ar	<b>√</b>	70% of working pressure	
8.5" Hole	13-5/8"	13-5/8"		Blind Ram		1	
o.J Hule			13-376	3M	Pipe Ram		
		JIV1	JIVI	Double I	Double Ram		230 psi / 3000 psi
			Other*				
		5M	Annula	ar	<b>*</b>	70% of working pressure	
. 675" Holo	6.75" Hole 13-5/8"		Blind R	am	<b>*</b>		
0.73 Hole		· 6M	Pipe Ram			250 :: / 5000 :	
		5M	Double Ram		✓ .	250 psi / 5000 psi	
			Other*				

\*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 multibowl or a unionized multibowl wellhead system will be employed. The wellhead and connection to the BOPE will meet all API 6A requirements. The BOP will be tested per Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested. We will test the flange connection of the wellhead with a test port that is directly in the flange. We are proposing that we will run the wellhead through the rotary prior to cementing surface casing as discussed with the BLM on October 8, 2015. Due to the four string design, Oxy plans to employ a 13-3/8" 3K sacrificial wellhead that will be employed to drill the 12.25" Intermediate Hole. Upon completion of drilling and cementing operations on the 12.25" Intermediate Hole section (along with proper WOC time), the wellhead will be cut off and salvaged. At this point, a standard 13-5/8 MNDS 5x10 Slips (13.375 x 9.625 x 7.625 x 5.5) wellhead will be welded onto the 9-5/8" casing for the remainder of drilling operations on the pad.

#### **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 From (ft)	pth To <sub>s</sub> (ft)	Туре	Weight (ppg)	Viscosity	Water Loss
0	670	Water-Based Mud	8.6-8.8	40-60	N/C
670	4200	Saturated Brine- Based Mud	9.8-10.0	35-45	N/C
4200	9269	Water-Based or Oil- Based Mud	8.0-9.6	38-50	N/C
9269	22671	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.
	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	4930 psi
Abnormal Temperature	No
BH Temperature at deepest TVD	159°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
<ul> <li>Will the well be drilled with a walking/skidding operation? If yes, describe.</li> <li>We plan to drill the four well pad in batch by section: all surface sections, intermediate sections and production sections. The wellhead will be secured with a night cap whenever the rig is not over the well.</li> </ul>	Yes
<ul> <li>Will more than one drilling rig be used for drilling operations? If yes, describe.</li> <li>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.</li> </ul>	Yes

Total estimated cuttings volume: 1662.9 bbls.

#### Attachments

- x Directional Plan
- x H2S Contingency Plan
- x Flex III Attachments
- x Spudder Rig Attachment
- \_x \_ Premium Connection Specs

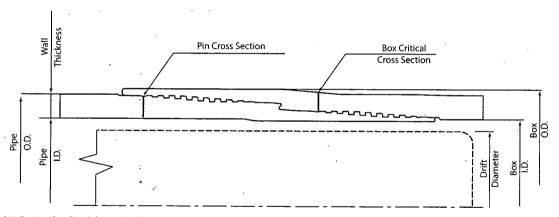
# 9. Company Personnel

Name	<u>Title</u>	Office Phone	Mobile Phone
Price Maxwell	Drilling Engineer	713-552-8744	830-370-6326
Diego Tellez	Drilling Engineer Supervisor	713-350-4602	713-303-4932
Simon Benavides	Drilling Superintendent	713-522-8652	281-684-6897
John Willis	Drilling Manager	713-366-5556	713-259-1417

TUBULA	R PARA	METERS
10000		IVILILIO

#### PIPE BODY PROPERTIES

Nominal OD, (inch)	7.625	PE Weight, (lbs/ft) 25.56
Wall Thickness, (inch)	0.328	Nominal Weight, (lbs/ft) . 26.40
Pipe Grade	L80 HC	Nominal ID, (inch) 6.969
Drift	Standard	Drift Diameter, (inch) 6.844
CONNECTION PARAMETERS		Nominal Pipe Body Area, (sq inch) 7.519
Connection OD (inch)	7.79	Min. Internal Yield Pressure, (psi) 6 020
Connection ID, (inch)	6.938	Collapse Pressure, (psi) 3 910
Make-Up Loss, (inch)	6.029	
Connection Critical Area, (sq inch)	5.948	Internal Pressure
Yield Strèngth in Tension, (klbs)	533	
Yeld Strength in Compression, (klbs)	533	
Tension Efficiency	. 89%	1009(AP).5C3/ISQ
Compression Efficiency	89%	
Min. Internal Yield Pressure, (psi)	6 020	
Collapse Pressure, (psi)	3 910	Compression (ens
Uniaxial Bending (deg/100ft)	42.7	
MAKE-UP TORQUES		
Yield Torque, (ft-lb)	22 600	
Minimum Make-Up Torque, (ft-lb)	15 000	
Optimum Make-Up Torque, (ft-lb)	16 500	External Pressure Construction from Rock
Maximum Make-Up Torque, (ft-lb)	18 200	



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Print date: 06/19/2018 22:34

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# PERFORMANCE DATA

TMK UP TORQ™ DQW Technical Data Sheet

5.500 in

20.00 lbs/ft

P110 CY

110,000

125,000

641,000

729,000

12,640

11,110

psi

psi

lbs

lbs

psi

psi

Tubular Parameters			
Size	5.500	in ·	Minimum Yield
Nominal Weight	20.00	lbs/ft	Minimum Tensile
Grade	P110 CY		Yield Load
PE Weight	19.81	lbs/ft	Tensile Load
Wall Thickness	0.361	in	Min. Internal Yield Pressure
Nominal ID	4.778	lin	Collapse Pressure
Drift Diameter	4.653	in	
Nom. Pipe Body Area	5.828	in²	

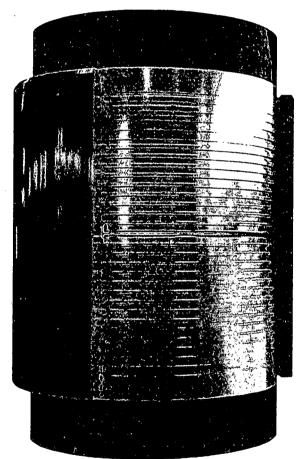
6.050	in
4.778	in
4.324	in
5.828	in²
100.0	%
100.0	%
641,000	lbs
12,640	psi
11,110	psi
92	°/ 100 ft
	4.778 4.324 5.828 100.0 100.0 641.000 12,640 11,110

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

Printed on: March-05-2019



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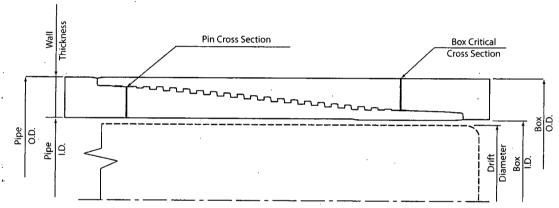




TUBULAR PARAMETERS
Nominal OD, (inch)

#### PIPE BODY PROPERTIES

Nominal OD, (inch)	7.625	PE Weight, (lbs/ft)	25.56
Wall Thickness, (inch) .	0.328	Nominal Weight, (lbs/ft)	26.40
Pipe Grade	L80 HC	Nominal ID, (inch)	6.969
Drift	Standard	Drift Diameter, (inch)	6.844
CONNECTION PARAMETERS		Nominal Pipe Body Area, (sq inch)Yield Strength in Tension, (klbs)	7.519 601
Connection OD (inch)	. 7.63	Min. Internal Yield Pressure, (psi)	6 020
Connection ID, (inch)	6.975	Collapse Pressure, (psi)	3 910
Make-Up Loss, (inch)	4.165		0 7 1 0
Connection Critical Area, (sq inch)	2.520	Internal Pressure	
Yield Strength in Tension, (klbs)	347		
Yeld Strength in Compression, (klbs)	347		
Tension Efficiency .	58%	100% NP SC3/15Q	
Compression Efficiency	58%		
Min. Internal Yield Pressure, (psi)	6 020		# <del>****</del>
Collapse Pressure, (psi)	3 910	Compression   Compression	Tension
Uniaxial Bending (deg/100ft)	28.0		
MAKE-UP TORQUES			11
Yield Torque, (ft-lb)	22 200	IVME.	
Minimum Make-Up Torque, (ft-lb)	12 500		
Optimum Make-Up Torque, (ft-lb)	13 900	External Pressure	- Connection
Maximum Make-Up Torque, (ft-lb)	15 300		



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 critimo professional can determine considering the specific installation and operation parameters. This information supersede all prior versions for this connection, information that is printed or downloaded is no longer controlled by TIAK and might not be the latest information. Anyone using the information perein does so at their own risk. To verify that you have the latest technical information, please contact PAO TIAK. Technical Sales in Russia (Tel: -7 (495) 775-76-00 Email technical Sales (Winth-group.com) and TIAK IPSCO in North America (Tel: -1 (281)349-1944, Email, technical Sales (Winth-group.com).

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# PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: OXY USA INC

LEASE NO.: NMNM0281482A

WELL NAME & NO.: | PURE GOLD MDP1 29-17 FED COM 1H

SURFACE HOLE FOOTAGE: 690' FSL & 920' FWL BOTTOM HOLE FOOTAGE 2465' FSL & 440' FWL

LOCATION: | Section 29, T. 23 S., R 31 E., NMPM

COUNTY: | Eddy County, New Mexico

- COA

All previous COAs still apply expect the following:

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

#### A. CASING

Operator is approved for annular spacing variance for the  $2^{nd}$  intermediate casing and production casing.

Operator shall filled  $1/3^{\rm rd}$  casing with fluid while running  $2^{\rm nd}$  intermediate casing to maintain collapse safety factor.

- 1. The minimum required fill of cement behind the 7-5/8 inch production casing is: 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. Additional cement maybe required. Excess calculates to -46%
  - b. Second stage above DV tool: Cement to surface. If cement do not return to surface contact BLM Additional cement maybe required. Excess calculates to 23%.
- 2. The minimum required fill of cement behind the 5-1/2 inch production casing is: Cement should tie-back 200 feet into the previous casing. Operator shall provide method of verification.

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