

<b>Well Name:</b> PURE GOLD MDP1 29-17 FED COM	<b>Well Location:</b> T23S / R31E / SEC 29 / SESW / 32.2701494 / -103.8039245	<b>County or Parish/State:</b> EDDY / NM
<b>Well Number:</b> 8H	<b>Type of Well:</b> OIL WELL	<b>Allottee or Tribe Name:</b>
<b>Lease Number:</b> NMNM0545035	<b>Unit or CA Name:</b>	<b>Unit or CA Number:</b>
<b>US Well Number:</b> 3001545754	<b>Well Status:</b> Drilling Well	<b>Operator:</b> OXY USA INCORPORATED

Notice of Intent

<b>Type of Submission:</b> Notice of Intent	<b>Type of Action</b> Drilling Operations
<b>Date Sundry Submitted:</b> 02/21/2021	<b>Time Sundry Submitted:</b> 05:51
<b>Date proposed operation will begin:</b> 02/28/2021	

**Procedure Description:** OXY USA Inc. respectfully request to revise the casing design, cement and mud programs for the wells listed below. Also note the offline cementing, BOP Break Testing and CBL Sundry language. In addition, the amended surface hole and bottom hole location of the subject well are listed below and shown in attached updated well plat for reference. NEW SHL: 430'FSL 2470'FWL SESW SECTION 28, T23S, R31E NEW BHL: 2624'FSL 2500'FWL NESW SECTION 17, T23S, R31E

Surface Disturbance

**Is any additional surface disturbance proposed?:** No

NOI Attachments

Procedure Description

- PureGoldMDP129\_17FdCom8H\_APDAmendDrillPlan\_20210221175011.pdf
- PureGoldMDP129\_17FdCom8H\_C102\_20210221175010.pdf
- PureGoldMDP129\_17FdCom8H\_SitePlan\_20210221175010.pdf

<b>Well Name:</b> PURE GOLD MDP1 29-17 FED COM	<b>Well Location:</b> T23S / R31E / SEC 29 / SESW / 32.2701494 / -103.8039245	<b>County or Parish/State:</b> EDDY / NM
<b>Well Number:</b> 8H	<b>Type of Well:</b> OIL WELL	<b>Allottee or Tribe Name:</b>
<b>Lease Number:</b> NMNM0545035	<b>Unit or CA Name:</b>	<b>Unit or CA Number:</b>
<b>US Well Number:</b> 3001545754	<b>Well Status:</b> Drilling Well	<b>Operator:</b> OXY USA INCORPORATED

Conditions of Approval

**Specialist Review**  
PURE\_GOLD\_MDP1\_29\_17\_FED\_COM\_8H\_20210330134048.pdf

Operator Certification

*I certify that the foregoing is true and correct. 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. Electronic submission of Sundry Notices through this system satisfies regulations requiring a submission of Form 3160-5 or a Sundry Notice.*

<b>Operator Electronic Signature:</b> EMILY MESSER	<b>Signed on:</b> FEB 21, 2021 05:50 PM
<b>Name:</b> OXY USA INCORPORATED	
<b>Title:</b> REGULATORY LEAD	
<b>Street Address:</b> 5 Greenway Plaza, Suite 110	
<b>City:</b> Houston	<b>State:</b> TX
<b>Phone:</b> (713) 497-2076	
<b>Email address:</b> emily_messer@oxy.com	

Field Representative

<b>Representative Name:</b>		
<b>Street Address:</b>		
<b>City:</b>	<b>State:</b>	<b>Zip:</b>
<b>Phone:</b>		
<b>Email address:</b>		

BLM Point of Contact

<b>BLM POC Name:</b> CHRISTOPHER WALLS	<b>BLM POC Title:</b> Petroleum Engineer
<b>BLM POC Phone:</b> 5752342234	<b>BLM POC Email Address:</b> cwalls@blm.gov
<b>Disposition:</b> Approved	<b>Disposition Date:</b> 07/21/2021
<b>Signature:</b> Chris Walls	

District I  
1625 N. French Dr., Hobbs, NM 88240  
Phone: (575) 393-6161 Fax: (575) 393-0720  
District II  
811 S. First St., Artesia, NM 88210  
Phone: (575) 748-1283 Fax: (575) 748-9720  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
Phone: (505) 334-6178 Fax: (505) 334-6170  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505  
Phone: (505) 476-3460 Fax: (505) 476-3462

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

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number <b>30-015-45754</b>	Pool Code <b>33740</b>	Pool Name <b>INGLE WELLS; BONE SPRING</b>
Property Code	Property Name <b>PURE GOLD MDP1 "29_17" FEDERAL COM</b>	Well Number <b>8H</b>
OGRID No. <b>16696</b>	Operator Name <b>OXY USA INC.</b>	Elevation <b>3357.6'</b>

Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	29	23 SOUTH	31 EAST, N.M.P.M.		430'	SOUTH	2470'	WEST	EDDY

Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
K	17	23 SOUTH	31 EAST, N.M.P.M.		2624'	SOUTH	2600'	WEST	EDDY

Dedicated Acres <b>640</b>	Joint or Infill	Consolidation Code	Order No.
-------------------------------	-----------------	--------------------	-----------

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

		<p>OPERATOR CERTIFICATION</p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p><i>Leslie T. Reeves</i> 05/04/20 Signature Date</p> <p><b>LESLIE REEVES</b> Printed Name <b>LESLIE_REEVES@OXY.COM</b> E-mail Address</p>	
		<p>SURVEYOR CERTIFICATION</p> <p>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</p> <p><i>Terry J. Asberry</i> 15079 Date of Survey June 5, 2018 Signature and Seal of Professional Surveyor</p> <p><i>Terry J. Asberry</i> 12/5/2019 Certificate Number 15079</p> <p>WO# 180605WL-b (Rev. A) (AS)</p>	

**Oxy USA Inc. - Pure Gold MDP1 29\_17 Fed Com 176H & 7H & 8H**

This is a bulk sundry request for x3 wells in Eddy County, Section 29 T23S R31E. The wells related to this sundry request are:

API #	Well Name
3001545781	Pure Gold MDP1 29-17 Fed Com 176H
3001545712	Pure Gold MDP1 29-17 Fed Com 7H
3001545754	Pure Gold MDP1 29-17 Fed Com 8H

**1. Summary of Changes**

- Updated geologic target and directional plan from 2<sup>nd</sup> Bone Spring to 3<sup>rd</sup> Bone Spring
- Changing 9-5/8 casing weight from 43.5ppf to 40ppf
- Changing Deep intermediate hole size from 8.5" to 8.75"
- Changed 7-5/8" SF set depth from 4000' to 6000'
- Updated cement calculations based on new casing and hole sizes
- Added offline cementing request for 9-5/8" and 7-5/8" casing strings

**2. Geologic Formations**

TVD of target	11170'	Pilot Hole Depth	N/A
MD at TD:	24169'	Deepest Expected fresh water:	388'

**Delaware Basin**

Formation	TVD - RKB	Expected Fluids
Rustler	388	
Salado	726	Salt
Castile	2,609	Salt
Lamar/Delaware	4,098	Oil/Gas/Brine
Bell Canyon	4,126	Oil/Gas/Brine
Cherry Canyon	5,025	Oil/Gas/Brine
Brushy Canyon	6,288	Losses
Bone Spring	7,964	Oil/Gas
1st Bone Spring	8,996	Oil/Gas
2nd Bone Spring	9,607	Oil/Gas
<b>3rd Bone Spring</b>	<b>10,867</b>	<b>Oil/Gas</b>

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

**3. Casing Program**

Hole Size (in)	Casing Interval		Csg. Size (in)	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	Buoyant	Buoyant
	From (ft)	To (ft)							Body SF Tension	Joint SF Tension
17.5	0	438	13.375	54.5	J-55	BTC	1.125	1.2	1.4	1.4
12.25	0	4148	9.625	40	L-80	BTC	1.125	1.2	1.4	1.4
8.75	0	10728	7.625	26.4	L-80 HC	SF (0 ft to 6000 ft) FJ (6000 ft to 10728 ft)	1.125	1.2	1.4	1.4
6.75	0	24169	5.5	20	P-110	DQX	1.125	1.2	1.4	1.4
SF Values will meet or Exceed										

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

\*Oxy requests the option to set casing shallower yet still below the salts if losses or hole conditions require this.

Cement volumes may be adjusted if casing is set shallower and a DV tool may be run in case hole conditions merit pumping a second stage cement job to comply with permitted top of cement. If cement circulated to surface during first stage, we will drop a cancellation cone and not pump the second stage.

**Oxy USA Inc. - Pure Gold MDP1 29\_17 Fed Com 176H & 7H & 8H**

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

**4. Cementing Program**

Casing String	# Sks	Wt. (lb/gal)	Yld (ft <sup>3</sup> /sack)	H2O (gal/sk)	500# Comp. Strength (hours)	Slurry Description
Surface (Lead)	N/A	N/A	N/A	N/A	N/A	N/A
Surface (Tail)	469	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)	269	13.2	1.65	8.640	11:54	Class H Cement, Retarder, Dispersant, Salt
Intermediate II 2nd Stage (Tail Slurry) to be pumped as Bradenhead Squeeze from surface, down the Intermediate annulus						
Intermediate II 2nd Stage (Lead)	N/A	N/A	N/A	N/A	N/A	N/A
Intermediate II 2nd Stage (Tail)	397	12.9	1.92	10.410	23:10	Class C Cement, Accelerator
Production (Lead)	N/A	N/A	N/A	N/A	N/A	N/A
Production (Tail)	1020	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	438	100%
Intermediate (Lead)	0	3648	50%
Intermediate (Tail)	3648	4148	20%
Intermediate II 1st Stage (Lead)	N/A	N/A	N/A
Intermediate II 1st Stage (Tail)	6538	10728	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)	10228	24169	20%

**5. Offline Cementing**

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

The summarized operational sequence will be as follows:

- Run casing as per normal operations. While running casing, conduct negative pressure test and confirm integrity of the float equipment (float collar and shoe).
- Land casing.
- Fill pipe with kill weight fluid, and confirm well is static.
  - If well is not static notify BLM and kill well.
  - Once well is static notify BLM with intent to proceed with nipple down and offline cementing.
- Set and pressure test annular packoff.



**Oxy USA Inc. - Pure Gold MDP1 29\_17 Fed Com 176H & 7H & 8H**

5. After confirmation of both annular barriers and internal barriers, nipple down BOP and install cap flange. If any barrier fails to test, the BOP stack will not be nipped down until after the cement job is completed.
6. Skid rig to next well on pad.
7. Confirm well is static before removing cap flange.
8. If well is not static notify BLM and kill well prior to cementing or nipping up for further remediation.
9. Install offline cement tool.
10. Rig up cement equipment.
  - a. Notify BLM prior to cement job.
11. Perform cement job.
12. Confirm well is static and floats are holding after cement job.
13. Remove cement equipment, offline cement tools and install night cap with pressure gauge for monitoring.

Oxy requests permission to adjust the CBL requirement after bradenhead cement jobs, on 7-5/8" intermediate casings, as per the agreement reached in the OXY/BLM meeting on September 5, 2019.

**Four string wells:**

- CBL is not required
- If the pumped volume of cement is less than permitted in the APD, BLM will be notified and a CBL may be run
- Echometer will be used after bradenhead cement job to determine TOC before pumping top-out cement

**4. Pressure Control Equipment**

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

**Oxy USA Inc. - Pure Gold MDP1 29\_17 Fed Com 176H & 7H & 8H**

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.

**BOP Break Testing Request**

OXY requests permission to adjust the BOP break testing requirements as per the agreement reached in the OXY/BLM meeting on September 5, 2019. A separate sundry will be sent prior to spud that reflects the pad based break testing plan.

BOP break test under the following conditions:

- After a full BOP test is conducted
- When skidding to drill an intermediate section where ICP is set into the third Bone Spring or shallower.
- When skidding to drill a production section that does not penetrate into the third Bone Spring or deeper.

If the kill line is broken prior to skid, two tests will be performed.

1. Wellhead flange, co-flex hose, kill line connections and upper pipe rams
2. Wellhead flange, HCR valve, check valve, upper pipe rams

If the kill line is not broken prior to skid, only one test will be performed.

1. Wellhead flange, co-flex hose, check valve, upper pipe rams

**5. Mud Program**

Depth		Type	Weight (ppg)	Viscosity	Water Loss
From (ft)	To (ft)				
0	438	Water-Based Mud	8.6-8.8	40-60	N/C
438	4148	Saturated Brine-Based Mud	9.8-10.0	35-45	N/C
4148	10728	Water-Based or Oil-Based Mud	8.0-9.6	38-50	N/C
10728	24169	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

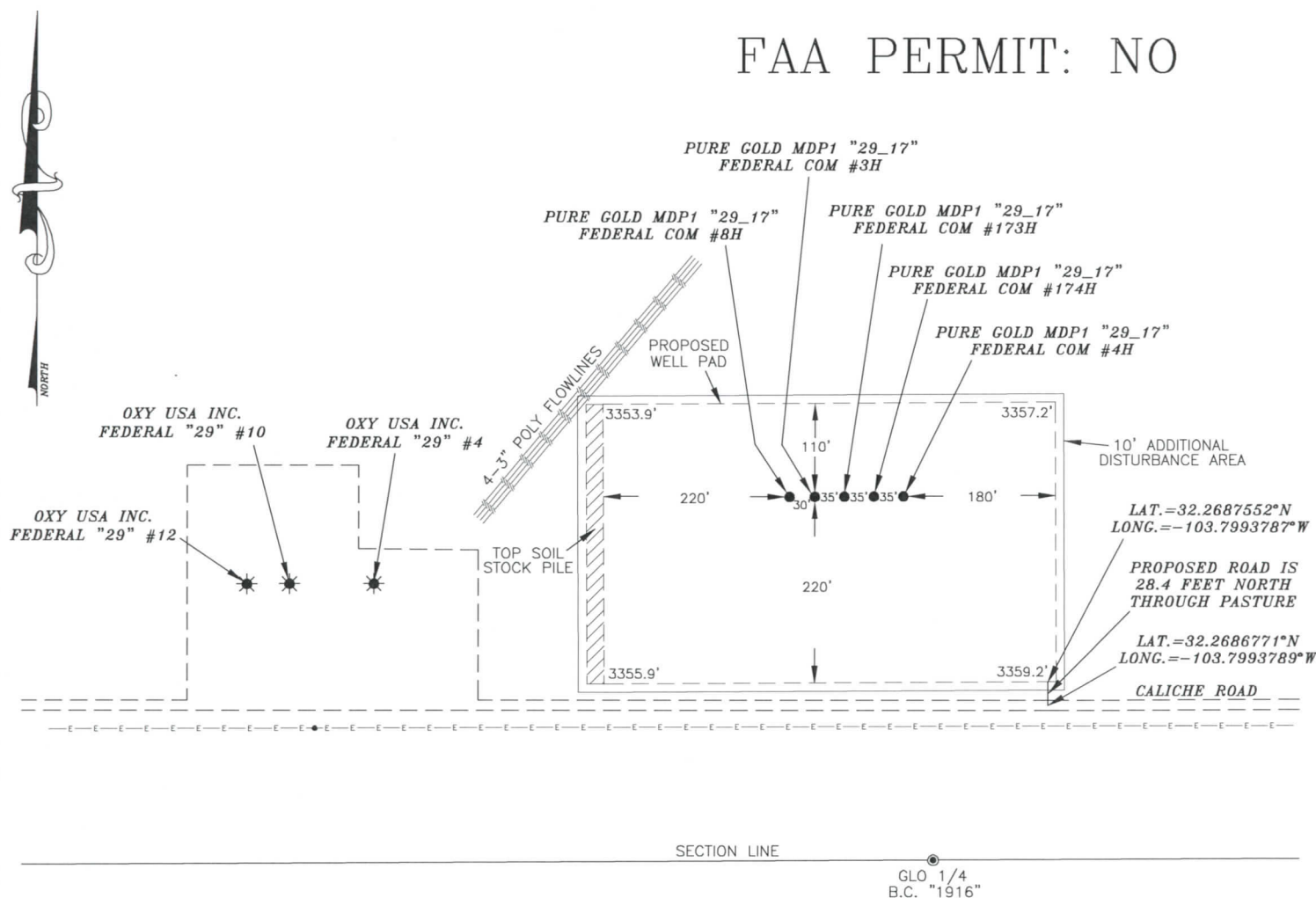
**6. Drilling Conditions**

Condition	Specify what type and where?
BH Pressure at deepest TVD	6971 psi
Abnormal Temperature	No
BH Temperature at deepest TVD	170°F

**7. Total estimated cuttings volume: 1755.4 bbls.**

# OXY USA INC. PAD 2917 SITE PLAN

## FAA PERMIT: NO

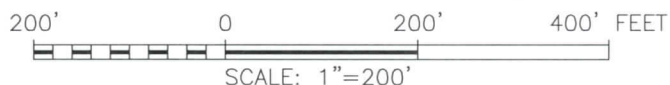


### SURVEYORS CERTIFICATE

I, TERRY J. ASEL, NEW MEXICO PROFESSIONAL SURVEYOR NO. 15079, DO HEREBY CERTIFY THAT I CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND MEETS THE "MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO" AS ADOPTED BY THE NEW MEXICO STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS AND SURVEYORS.

*Terry J. Asel* 12/5/2019  
Terry J. Asel, N.M. R.P.L.S. No. 15079

- LEGEND**
- DENOTES PROPOSED WELL PAD
  - DENOTES PROPOSED ROAD
  - ★ DENOTES EXISTING WELL



## OXY USA INC.

PAD 2917 LOCATED IN SECTION 29,  
TOWNSHIP 23 SOUTH, RANGE 31 EAST,  
N.M.P.M., EDDY COUNTY, NEW MEXICO

Survey Date: 06/05/18	Sheet 1 of 1 Sheets
W.O. Number:	Drawn By: KA Rev:
Date: 12/03/19	Scale: 1"=200'

Asel Surveying

P.O. BOX 393 - 310 W. TAYLOR

HOBBS, NEW MEXICO 88355-0393



## PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

<b>OPERATOR'S NAME:</b>	<b>OXY</b>
<b>LEASE NO.:</b>	<b>NMNM0545035</b>
<b>WELL NAME &amp; NO.:</b>	<b>Pure Gold MDP1 29-17 Fed Com 8H</b>
<b>SURFACE HOLE FOOTAGE:</b>	430'/S & 2470'/W
<b>BOTTOM HOLE FOOTAGE:</b>	2624'/S & 2600'/W
<b>LOCATION:</b>	Section 29, T.23 S., R.31 E., NMPM
<b>COUNTY:</b>	Eddy County, New Mexico

COA

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

Break Testing	<input checked="" type="radio"/> Yes	<input type="radio"/> No
---------------	--------------------------------------	--------------------------

### A. HYDROGEN SULFIDE

Hydrogen Sulfide (H2S) monitors shall be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

### B. CASING

1. The **13-3/8** inch surface casing shall be set at approximately **461** feet (a minimum of **70 feet (Eddy County)** into the Rustler Anhydrite and above the salt) and cemented to the surface.
  - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after

completing the cement job.

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

    - ❖ In R111 Potash Areas if cement does not circulate to surface on the first two salt protection casing strings, the cement on the 3rd casing string must come to surface.
  3. The minimum required fill of cement behind the **7-5/8** inch production casing is:
    - Cement to surface. If cement does not circulate, contact the appropriate BLM office.

**Operator has proposed to pump down 7-5/8" X 9-5/8" annulus. Operator must run a CBL/ Echometer from TD of the 7-5/8" casing to surface. Submit results to BLM.**

4. The minimum required fill of cement behind the **5-1/2** inch production liner is:
  - Cement should tie-back **200 feet** into the previous casing. Operator shall provide method of verification.

### **C. PRESSURE CONTROL**

1. **Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).**
2. 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 **5000 (5M)** psi.
  - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.

- b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
- c. Manufacturer representative shall install the test plug for the initial BOP test.
- d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

#### **D. SPECIAL REQUIREMENT (S)**

##### **Communitization Agreement**

- The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, 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.

##### **BOPE Break Testing Variance (Note: For 5M BOPE or less)**

- BOPE Break Testing is ONLY permitted for 5M BOPE or less.
- BOPE Break Testing is NOT permitted to drilling the production hole section.
- 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 BOPE Break Testing operations.
- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required.
- The BLM is to be contacted (575-361-2822 Eddy County) 4 hours prior to BOPE tests.
- As a minimum, a full BOPE test shall be performed at 21-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per Onshore Oil and Gas Order No. 2.

## 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)

☒ Eddy County

Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,  
(575) 361-2822

☒ Lea County

Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575)  
393-3612

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
  - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
  - b. When the operator proposes to set surface casing with Spudder Rig
    - Notify the BLM when moving in and removing the Spudder Rig.
    - Notify the BLM when moving in the 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. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
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. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
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: The flex line must meet the requirements of API 16C. 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, except the casing pressure test can be initiated immediately after bumping the plug (only applies to single stage cement jobs).
- 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.

**ZS 033021**

# **OXY**

**PRD NM DIRECTIONAL PLANS (NAD 1983)**

**Pure Gold MDP1 29\_17 Federal Com**

**PURE GOLD MDP1 29\_17 FED COM 8H**

**WB00**

**Plan: Permitting Plan**

## **Standard Planning Report**

**23 September, 2021**

# OXY

## Planning Report

<b>Database:</b>	HOPSPP	<b>Local Co-ordinate Reference:</b>	Well PURE GOLD MDP1 29_17 FED COM 8H
<b>Company:</b>	ENGINEERING DESIGNS	<b>TVD Reference:</b>	RKB=26.5' @ 3384.10ft
<b>Project:</b>	PRD NM DIRECTIONAL PLANS (NAD 1983)	<b>MD Reference:</b>	RKB=26.5' @ 3384.10ft
<b>Site:</b>	Pure Gold MDP1 29_17 Federal Com	<b>North Reference:</b>	Grid
<b>Well:</b>	PURE GOLD MDP1 29_17 FED COM 8H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	WB00		
<b>Design:</b>	Permitting Plan		

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

<b>Site</b>	Pure Gold MDP1 29_17 Federal Com		
<b>Site Position:</b>		<b>Northing:</b>	462,387.11 usft
<b>From:</b>	Map	<b>Easting:</b>	704,515.79 usft
<b>Position Uncertainty:</b>	50.00 ft	<b>Slot Radius:</b>	13.200 in
		<b>Latitude:</b>	32° 16' 12.264239 N
		<b>Longitude:</b>	103° 48' 19.372708 W
		<b>Grid Convergence:</b>	0.28 °

<b>Well</b>	PURE GOLD MDP1 29_17 FED COM 8H		
<b>Well Position</b>	<b>+N/-S</b>	-251.94 ft	<b>Northing:</b>
	<b>+E/-W</b>	1,551.57 ft	<b>Easting:</b>
<b>Position Uncertainty</b>		1.00 ft	<b>Wellhead Elevation:</b>
			0.00 ft
			<b>Latitude:</b>
			32° 16' 9.695457 N
			<b>Longitude:</b>
			103° 48' 1.317125 W
			<b>Ground Level:</b>
			3,357.60 ft

<b>Wellbore</b>	WB00				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	HDGM_FILE	8/14/2018	6.88	60.00	48,048.50000000

<b>Design</b>	Permitting Plan			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PROTOTYPE	<b>Tie On Depth:</b>	0.00
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>
	0.00	0.00	0.00	0.26

<b>Plan Survey Tool Program</b>	<b>Date</b>	9/23/2021		
<b>Depth From (ft)</b>	<b>Depth To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Remarks</b>
1	0.00	24,211.36	Permitting Plan (WB00)	B001Mb_MWD+HRGM
				OWSG MWD + HRGM

<b>Plan Sections</b>										
<b>Measured Depth (ft)</b>	<b>Inclination (°)</b>	<b>Azimuth (°)</b>	<b>Vertical Depth (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Dogleg Rate (°/100ft)</b>	<b>Build Rate (°/100ft)</b>	<b>Turn Rate (°/100ft)</b>	<b>TFO (°)</b>	<b>Target</b>
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5,700.00	0.00	0.00	5,700.00	0.00	0.00	0.00	0.00	0.00	0.00	
6,700.00	10.00	170.69	6,694.93	-85.90	14.08	1.00	1.00	0.00	170.69	
10,313.09	10.00	170.69	10,253.13	-705.04	115.58	0.00	0.00	0.00	0.00	
11,311.18	89.93	359.68	10,924.11	-141.14	130.87	10.00	8.01	-17.13	-170.88	
24,211.36	89.93	359.68	10,939.10	12,758.82	58.29	0.00	0.00	0.00	0.00	PBHL (Pure Gold)



# OXY

## Planning Report

<b>Database:</b>	HOPSPP	<b>Local Co-ordinate Reference:</b>	Well PURE GOLD MDP1 29_17 FED COM 8H
<b>Company:</b>	ENGINEERING DESIGNS	<b>TVD Reference:</b>	RKB=26.5' @ 3384.10ft
<b>Project:</b>	PRD NM DIRECTIONAL PLANS (NAD 1983)	<b>MD Reference:</b>	RKB=26.5' @ 3384.10ft
<b>Site:</b>	Pure Gold MDP1 29_17 Federal Com	<b>North Reference:</b>	Grid
<b>Well:</b>	PURE GOLD MDP1 29_17 FED COM 8H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	WB00		
<b>Design:</b>	Permitting Plan		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.00	0.00	0.00
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.00	0.00	0.00
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.00	0.00	0.00
4,900.00	0.00	0.00	4,900.00	0.00	0.00	0.00	0.00	0.00	0.00
5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	0.00	0.00	0.00
5,100.00	0.00	0.00	5,100.00	0.00	0.00	0.00	0.00	0.00	0.00
5,200.00	0.00	0.00	5,200.00	0.00	0.00	0.00	0.00	0.00	0.00
5,300.00	0.00	0.00	5,300.00	0.00	0.00	0.00	0.00	0.00	0.00

# OXY

## Planning Report

<b>Database:</b>	HOPSPP	<b>Local Co-ordinate Reference:</b>	Well PURE GOLD MDP1 29_17 FED COM 8H
<b>Company:</b>	ENGINEERING DESIGNS	<b>TVD Reference:</b>	RKB=26.5' @ 3384.10ft
<b>Project:</b>	PRD NM DIRECTIONAL PLANS (NAD 1983)	<b>MD Reference:</b>	RKB=26.5' @ 3384.10ft
<b>Site:</b>	Pure Gold MDP1 29_17 Federal Com	<b>North Reference:</b>	Grid
<b>Well:</b>	PURE GOLD MDP1 29_17 FED COM 8H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	WB00		
<b>Design:</b>	Permitting Plan		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,400.00	0.00	0.00	5,400.00	0.00	0.00	0.00	0.00	0.00	0.00
5,500.00	0.00	0.00	5,500.00	0.00	0.00	0.00	0.00	0.00	0.00
5,600.00	0.00	0.00	5,600.00	0.00	0.00	0.00	0.00	0.00	0.00
5,700.00	0.00	0.00	5,700.00	0.00	0.00	0.00	0.00	0.00	0.00
5,800.00	1.00	170.69	5,800.00	-0.86	0.14	-0.86	1.00	1.00	0.00
5,900.00	2.00	170.69	5,899.96	-3.44	0.56	-3.44	1.00	1.00	0.00
6,000.00	3.00	170.69	5,999.86	-7.75	1.27	-7.74	1.00	1.00	0.00
6,100.00	4.00	170.69	6,099.68	-13.77	2.26	-13.76	1.00	1.00	0.00
6,200.00	5.00	170.69	6,199.37	-21.52	3.53	-21.50	1.00	1.00	0.00
6,300.00	6.00	170.69	6,298.90	-30.97	5.08	-30.95	1.00	1.00	0.00
6,400.00	7.00	170.69	6,398.26	-42.14	6.91	-42.11	1.00	1.00	0.00
6,500.00	8.00	170.69	6,497.40	-55.03	9.02	-54.98	1.00	1.00	0.00
6,600.00	9.00	170.69	6,596.30	-69.61	11.41	-69.56	1.00	1.00	0.00
6,700.00	10.00	170.69	6,694.93	-85.90	14.08	-85.83	1.00	1.00	0.00
6,800.00	10.00	170.69	6,793.41	-103.03	16.89	-102.96	0.00	0.00	0.00
6,900.00	10.00	170.69	6,891.89	-120.17	19.70	-120.08	0.00	0.00	0.00
7,000.00	10.00	170.69	6,990.37	-137.31	22.51	-137.20	0.00	0.00	0.00
7,100.00	10.00	170.69	7,088.85	-154.44	25.32	-154.33	0.00	0.00	0.00
7,200.00	10.00	170.69	7,187.33	-171.58	28.13	-171.45	0.00	0.00	0.00
7,300.00	10.00	170.69	7,285.82	-188.72	30.94	-188.57	0.00	0.00	0.00
7,400.00	10.00	170.69	7,384.30	-205.85	33.75	-205.69	0.00	0.00	0.00
7,500.00	10.00	170.69	7,482.78	-222.99	36.56	-222.82	0.00	0.00	0.00
7,600.00	10.00	170.69	7,581.26	-240.12	39.36	-239.94	0.00	0.00	0.00
7,700.00	10.00	170.69	7,679.74	-257.26	42.17	-257.06	0.00	0.00	0.00
7,800.00	10.00	170.69	7,778.22	-274.40	44.98	-274.19	0.00	0.00	0.00
7,900.00	10.00	170.69	7,876.70	-291.53	47.79	-291.31	0.00	0.00	0.00
8,000.00	10.00	170.69	7,975.18	-308.67	50.60	-308.43	0.00	0.00	0.00
8,100.00	10.00	170.69	8,073.66	-325.80	53.41	-325.56	0.00	0.00	0.00
8,200.00	10.00	170.69	8,172.14	-342.94	56.22	-342.68	0.00	0.00	0.00
8,300.00	10.00	170.69	8,270.62	-360.08	59.03	-359.80	0.00	0.00	0.00
8,400.00	10.00	170.69	8,369.10	-377.21	61.84	-376.93	0.00	0.00	0.00
8,500.00	10.00	170.69	8,467.58	-394.35	64.65	-394.05	0.00	0.00	0.00
8,600.00	10.00	170.69	8,566.07	-411.48	67.46	-411.17	0.00	0.00	0.00
8,700.00	10.00	170.69	8,664.55	-428.62	70.27	-428.29	0.00	0.00	0.00
8,800.00	10.00	170.69	8,763.03	-445.76	73.08	-445.42	0.00	0.00	0.00
8,900.00	10.00	170.69	8,861.51	-462.89	75.88	-462.54	0.00	0.00	0.00
9,000.00	10.00	170.69	8,959.99	-480.03	78.69	-479.66	0.00	0.00	0.00
9,100.00	10.00	170.69	9,058.47	-497.16	81.50	-496.79	0.00	0.00	0.00
9,200.00	10.00	170.69	9,156.95	-514.30	84.31	-513.91	0.00	0.00	0.00
9,300.00	10.00	170.69	9,255.43	-531.44	87.12	-531.03	0.00	0.00	0.00
9,400.00	10.00	170.69	9,353.91	-548.57	89.93	-548.16	0.00	0.00	0.00
9,500.00	10.00	170.69	9,452.39	-565.71	92.74	-565.28	0.00	0.00	0.00
9,600.00	10.00	170.69	9,550.87	-582.84	95.55	-582.40	0.00	0.00	0.00
9,700.00	10.00	170.69	9,649.35	-599.98	98.36	-599.53	0.00	0.00	0.00
9,800.00	10.00	170.69	9,747.84	-617.12	101.17	-616.65	0.00	0.00	0.00
9,900.00	10.00	170.69	9,846.32	-634.25	103.98	-633.77	0.00	0.00	0.00
10,000.00	10.00	170.69	9,944.80	-651.39	106.79	-650.89	0.00	0.00	0.00
10,100.00	10.00	170.69	10,043.28	-668.53	109.60	-668.02	0.00	0.00	0.00
10,200.00	10.00	170.69	10,141.76	-685.66	112.40	-685.14	0.00	0.00	0.00
10,300.00	10.00	170.69	10,240.24	-702.80	115.21	-702.26	0.00	0.00	0.00
10,313.09	10.00	170.69	10,253.13	-705.04	115.58	-704.51	0.00	0.00	0.00
10,400.00	1.97	126.60	10,339.52	-713.39	118.01	-712.85	10.00	-9.24	-50.73
10,500.00	8.95	9.74	10,439.13	-706.73	120.71	-706.18	10.00	6.98	-116.85
10,600.00	18.88	4.30	10,536.08	-682.87	123.25	-682.30	10.00	9.92	-5.45

# OXY

## Planning Report

<b>Database:</b>	HOPSPP	<b>Local Co-ordinate Reference:</b>	Well PURE GOLD MDP1 29_17 FED COM 8H
<b>Company:</b>	ENGINEERING DESIGNS	<b>TVD Reference:</b>	RKB=26.5' @ 3384.10ft
<b>Project:</b>	PRD NM DIRECTIONAL PLANS (NAD 1983)	<b>MD Reference:</b>	RKB=26.5' @ 3384.10ft
<b>Site:</b>	Pure Gold MDP1 29_17 Federal Com	<b>North Reference:</b>	Grid
<b>Well:</b>	PURE GOLD MDP1 29_17 FED COM 8H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	WB00		
<b>Design:</b>	Permitting Plan		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
10,700.00	28.85	2.54	10,627.42	-642.53	125.54	-641.95	10.00	9.98	-1.75
10,800.00	38.84	1.64	10,710.36	-586.94	127.51	-586.35	10.00	9.99	-0.91
10,900.00	48.83	1.06	10,782.40	-517.78	129.10	-517.19	10.00	9.99	-0.58
11,000.00	58.83	0.63	10,841.34	-437.17	130.27	-436.57	10.00	9.99	-0.43
11,100.00	68.82	0.29	10,885.40	-347.54	130.97	-346.93	10.00	10.00	-0.34
11,200.00	78.82	359.99	10,913.23	-251.62	131.20	-251.02	10.00	10.00	-0.30
11,300.00	88.82	359.71	10,923.98	-152.33	130.93	-151.73	10.00	10.00	-0.28
11,311.18	89.93	359.68	10,924.11	-141.14	130.87	-140.54	10.00	10.00	-0.28
11,400.00	89.93	359.68	10,924.21	-52.33	130.37	-51.73	0.00	0.00	0.00
11,500.00	89.93	359.68	10,924.32	47.67	129.81	48.26	0.00	0.00	0.00
11,600.00	89.93	359.68	10,924.44	147.67	129.25	148.26	0.00	0.00	0.00
11,700.00	89.93	359.68	10,924.56	247.67	128.68	248.25	0.00	0.00	0.00
11,800.00	89.93	359.68	10,924.67	347.66	128.12	348.25	0.00	0.00	0.00
11,900.00	89.93	359.68	10,924.79	447.66	127.56	448.24	0.00	0.00	0.00
12,000.00	89.93	359.68	10,924.91	547.66	126.99	548.24	0.00	0.00	0.00
12,100.00	89.93	359.68	10,925.02	647.66	126.43	648.23	0.00	0.00	0.00
12,200.00	89.93	359.68	10,925.14	747.66	125.87	748.22	0.00	0.00	0.00
12,300.00	89.93	359.68	10,925.25	847.66	125.31	848.22	0.00	0.00	0.00
12,400.00	89.93	359.68	10,925.37	947.65	124.74	948.21	0.00	0.00	0.00
12,500.00	89.93	359.68	10,925.49	1,047.65	124.18	1,048.21	0.00	0.00	0.00
12,600.00	89.93	359.68	10,925.60	1,147.65	123.62	1,148.20	0.00	0.00	0.00
12,700.00	89.93	359.68	10,925.72	1,247.65	123.06	1,248.20	0.00	0.00	0.00
12,800.00	89.93	359.68	10,925.84	1,347.65	122.49	1,348.19	0.00	0.00	0.00
12,900.00	89.93	359.68	10,925.95	1,447.65	121.93	1,448.19	0.00	0.00	0.00
13,000.00	89.93	359.68	10,926.07	1,547.64	121.37	1,548.18	0.00	0.00	0.00
13,100.00	89.93	359.68	10,926.18	1,647.64	120.81	1,648.18	0.00	0.00	0.00
13,200.00	89.93	359.68	10,926.30	1,747.64	120.24	1,748.17	0.00	0.00	0.00
13,300.00	89.93	359.68	10,926.42	1,847.64	119.68	1,848.17	0.00	0.00	0.00
13,400.00	89.93	359.68	10,926.53	1,947.64	119.12	1,948.16	0.00	0.00	0.00
13,500.00	89.93	359.68	10,926.65	2,047.64	118.56	2,048.16	0.00	0.00	0.00
13,600.00	89.93	359.68	10,926.77	2,147.63	117.99	2,148.15	0.00	0.00	0.00
13,700.00	89.93	359.68	10,926.88	2,247.63	117.43	2,248.15	0.00	0.00	0.00
13,800.00	89.93	359.68	10,927.00	2,347.63	116.87	2,348.14	0.00	0.00	0.00
13,900.00	89.93	359.68	10,927.11	2,447.63	116.31	2,448.14	0.00	0.00	0.00
14,000.00	89.93	359.68	10,927.23	2,547.63	115.74	2,548.13	0.00	0.00	0.00
14,100.00	89.93	359.68	10,927.35	2,647.63	115.18	2,648.12	0.00	0.00	0.00
14,200.00	89.93	359.68	10,927.46	2,747.62	114.62	2,748.12	0.00	0.00	0.00
14,300.00	89.93	359.68	10,927.58	2,847.62	114.05	2,848.11	0.00	0.00	0.00
14,400.00	89.93	359.68	10,927.70	2,947.62	113.49	2,948.11	0.00	0.00	0.00
14,500.00	89.93	359.68	10,927.81	3,047.62	112.93	3,048.10	0.00	0.00	0.00
14,600.00	89.93	359.68	10,927.93	3,147.62	112.37	3,148.10	0.00	0.00	0.00
14,700.00	89.93	359.68	10,928.04	3,247.62	111.80	3,248.09	0.00	0.00	0.00
14,800.00	89.93	359.68	10,928.16	3,347.61	111.24	3,348.09	0.00	0.00	0.00
14,900.00	89.93	359.68	10,928.28	3,447.61	110.68	3,448.08	0.00	0.00	0.00
15,000.00	89.93	359.68	10,928.39	3,547.61	110.12	3,548.08	0.00	0.00	0.00
15,100.00	89.93	359.68	10,928.51	3,647.61	109.55	3,648.07	0.00	0.00	0.00
15,200.00	89.93	359.68	10,928.63	3,747.61	108.99	3,748.07	0.00	0.00	0.00
15,300.00	89.93	359.68	10,928.74	3,847.61	108.43	3,848.06	0.00	0.00	0.00
15,400.00	89.93	359.68	10,928.86	3,947.60	107.87	3,948.06	0.00	0.00	0.00
15,500.00	89.93	359.68	10,928.97	4,047.60	107.30	4,048.05	0.00	0.00	0.00
15,600.00	89.93	359.68	10,929.09	4,147.60	106.74	4,148.05	0.00	0.00	0.00
15,700.00	89.93	359.68	10,929.21	4,247.60	106.18	4,248.04	0.00	0.00	0.00
15,800.00	89.93	359.68	10,929.32	4,347.60	105.62	4,348.04	0.00	0.00	0.00
15,900.00	89.93	359.68	10,929.44	4,447.60	105.05	4,448.03	0.00	0.00	0.00

# OXY

## Planning Report

<b>Database:</b>	HOPSPP	<b>Local Co-ordinate Reference:</b>	Well PURE GOLD MDP1 29_17 FED COM 8H
<b>Company:</b>	ENGINEERING DESIGNS	<b>TVD Reference:</b>	RKB=26.5' @ 3384.10ft
<b>Project:</b>	PRD NM DIRECTIONAL PLANS (NAD 1983)	<b>MD Reference:</b>	RKB=26.5' @ 3384.10ft
<b>Site:</b>	Pure Gold MDP1 29_17 Federal Com	<b>North Reference:</b>	Grid
<b>Well:</b>	PURE GOLD MDP1 29_17 FED COM 8H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	WB00		
<b>Design:</b>	Permitting Plan		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
16,000.00	89.93	359.68	10,929.56	4,547.59	104.49	4,548.02	0.00	0.00	0.00
16,100.00	89.93	359.68	10,929.67	4,647.59	103.93	4,648.02	0.00	0.00	0.00
16,200.00	89.93	359.68	10,929.79	4,747.59	103.37	4,748.01	0.00	0.00	0.00
16,300.00	89.93	359.68	10,929.90	4,847.59	102.80	4,848.01	0.00	0.00	0.00
16,400.00	89.93	359.68	10,930.02	4,947.59	102.24	4,948.00	0.00	0.00	0.00
16,500.00	89.93	359.68	10,930.14	5,047.59	101.68	5,048.00	0.00	0.00	0.00
16,600.00	89.93	359.68	10,930.25	5,147.58	101.12	5,147.99	0.00	0.00	0.00
16,700.00	89.93	359.68	10,930.37	5,247.58	100.55	5,247.99	0.00	0.00	0.00
16,800.00	89.93	359.68	10,930.49	5,347.58	99.99	5,347.98	0.00	0.00	0.00
16,900.00	89.93	359.68	10,930.60	5,447.58	99.43	5,447.98	0.00	0.00	0.00
17,000.00	89.93	359.68	10,930.72	5,547.58	98.86	5,547.97	0.00	0.00	0.00
17,100.00	89.93	359.68	10,930.83	5,647.58	98.30	5,647.97	0.00	0.00	0.00
17,200.00	89.93	359.68	10,930.95	5,747.57	97.74	5,747.96	0.00	0.00	0.00
17,300.00	89.93	359.68	10,931.07	5,847.57	97.18	5,847.96	0.00	0.00	0.00
17,400.00	89.93	359.68	10,931.18	5,947.57	96.61	5,947.95	0.00	0.00	0.00
17,500.00	89.93	359.68	10,931.30	6,047.57	96.05	6,047.95	0.00	0.00	0.00
17,600.00	89.93	359.68	10,931.42	6,147.57	95.49	6,147.94	0.00	0.00	0.00
17,700.00	89.93	359.68	10,931.53	6,247.57	94.93	6,247.94	0.00	0.00	0.00
17,800.00	89.93	359.68	10,931.65	6,347.56	94.36	6,347.93	0.00	0.00	0.00
17,900.00	89.93	359.68	10,931.76	6,447.56	93.80	6,447.92	0.00	0.00	0.00
18,000.00	89.93	359.68	10,931.88	6,547.56	93.24	6,547.92	0.00	0.00	0.00
18,100.00	89.93	359.68	10,932.00	6,647.56	92.68	6,647.91	0.00	0.00	0.00
18,200.00	89.93	359.68	10,932.11	6,747.56	92.11	6,747.91	0.00	0.00	0.00
18,300.00	89.93	359.68	10,932.23	6,847.56	91.55	6,847.90	0.00	0.00	0.00
18,400.00	89.93	359.68	10,932.35	6,947.56	90.99	6,947.90	0.00	0.00	0.00
18,500.00	89.93	359.68	10,932.46	7,047.55	90.43	7,047.89	0.00	0.00	0.00
18,600.00	89.93	359.68	10,932.58	7,147.55	89.86	7,147.89	0.00	0.00	0.00
18,700.00	89.93	359.68	10,932.69	7,247.55	89.30	7,247.88	0.00	0.00	0.00
18,800.00	89.93	359.68	10,932.81	7,347.55	88.74	7,347.88	0.00	0.00	0.00
18,900.00	89.93	359.68	10,932.93	7,447.55	88.18	7,447.87	0.00	0.00	0.00
19,000.00	89.93	359.68	10,933.04	7,547.55	87.61	7,547.87	0.00	0.00	0.00
19,100.00	89.93	359.68	10,933.16	7,647.54	87.05	7,647.86	0.00	0.00	0.00
19,200.00	89.93	359.68	10,933.28	7,747.54	86.49	7,747.86	0.00	0.00	0.00
19,300.00	89.93	359.68	10,933.39	7,847.54	85.92	7,847.85	0.00	0.00	0.00
19,400.00	89.93	359.68	10,933.51	7,947.54	85.36	7,947.85	0.00	0.00	0.00
19,500.00	89.93	359.68	10,933.62	8,047.54	84.80	8,047.84	0.00	0.00	0.00
19,600.00	89.93	359.68	10,933.74	8,147.54	84.24	8,147.84	0.00	0.00	0.00
19,700.00	89.93	359.68	10,933.86	8,247.53	83.67	8,247.83	0.00	0.00	0.00
19,800.00	89.93	359.68	10,933.97	8,347.53	83.11	8,347.82	0.00	0.00	0.00
19,900.00	89.93	359.68	10,934.09	8,447.53	82.55	8,447.82	0.00	0.00	0.00
20,000.00	89.93	359.68	10,934.20	8,547.53	81.99	8,547.81	0.00	0.00	0.00
20,100.00	89.93	359.68	10,934.32	8,647.53	81.42	8,647.81	0.00	0.00	0.00
20,200.00	89.93	359.68	10,934.44	8,747.53	80.86	8,747.80	0.00	0.00	0.00
20,300.00	89.93	359.68	10,934.55	8,847.52	80.30	8,847.80	0.00	0.00	0.00
20,400.00	89.93	359.68	10,934.67	8,947.52	79.74	8,947.79	0.00	0.00	0.00
20,500.00	89.93	359.68	10,934.79	9,047.52	79.17	9,047.79	0.00	0.00	0.00
20,600.00	89.93	359.68	10,934.90	9,147.52	78.61	9,147.78	0.00	0.00	0.00
20,700.00	89.93	359.68	10,935.02	9,247.52	78.05	9,247.78	0.00	0.00	0.00
20,800.00	89.93	359.68	10,935.13	9,347.52	77.49	9,347.77	0.00	0.00	0.00
20,900.00	89.93	359.68	10,935.25	9,447.51	76.92	9,447.77	0.00	0.00	0.00
21,000.00	89.93	359.68	10,935.37	9,547.51	76.36	9,547.76	0.00	0.00	0.00
21,100.00	89.93	359.68	10,935.48	9,647.51	75.80	9,647.76	0.00	0.00	0.00
21,200.00	89.93	359.68	10,935.60	9,747.51	75.24	9,747.75	0.00	0.00	0.00
21,300.00	89.93	359.68	10,935.72	9,847.51	74.67	9,847.75	0.00	0.00	0.00

# OXY

## Planning Report

<b>Database:</b>	HOPSPP	<b>Local Co-ordinate Reference:</b>	Well PURE GOLD MDP1 29_17 FED COM 8H
<b>Company:</b>	ENGINEERING DESIGNS	<b>TVD Reference:</b>	RKB=26.5' @ 3384.10ft
<b>Project:</b>	PRD NM DIRECTIONAL PLANS (NAD 1983)	<b>MD Reference:</b>	RKB=26.5' @ 3384.10ft
<b>Site:</b>	Pure Gold MDP1 29_17 Federal Com	<b>North Reference:</b>	Grid
<b>Well:</b>	PURE GOLD MDP1 29_17 FED COM 8H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	WB00		
<b>Design:</b>	Permitting Plan		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
21,400.00	89.93	359.68	10,935.83	9,947.51	74.11	9,947.74	0.00	0.00	0.00	
21,500.00	89.93	359.68	10,935.95	10,047.50	73.55	10,047.74	0.00	0.00	0.00	
21,600.00	89.93	359.68	10,936.06	10,147.50	72.99	10,147.73	0.00	0.00	0.00	
21,700.00	89.93	359.68	10,936.18	10,247.50	72.42	10,247.72	0.00	0.00	0.00	
21,800.00	89.93	359.68	10,936.30	10,347.50	71.86	10,347.72	0.00	0.00	0.00	
21,900.00	89.93	359.68	10,936.41	10,447.50	71.30	10,447.71	0.00	0.00	0.00	
22,000.00	89.93	359.68	10,936.53	10,547.50	70.73	10,547.71	0.00	0.00	0.00	
22,100.00	89.93	359.68	10,936.65	10,647.49	70.17	10,647.70	0.00	0.00	0.00	
22,200.00	89.93	359.68	10,936.76	10,747.49	69.61	10,747.70	0.00	0.00	0.00	
22,300.00	89.93	359.68	10,936.88	10,847.49	69.05	10,847.69	0.00	0.00	0.00	
22,400.00	89.93	359.68	10,936.99	10,947.49	68.48	10,947.69	0.00	0.00	0.00	
22,500.00	89.93	359.68	10,937.11	11,047.49	67.92	11,047.68	0.00	0.00	0.00	
22,600.00	89.93	359.68	10,937.23	11,147.49	67.36	11,147.68	0.00	0.00	0.00	
22,700.00	89.93	359.68	10,937.34	11,247.48	66.80	11,247.67	0.00	0.00	0.00	
22,800.00	89.93	359.68	10,937.46	11,347.48	66.23	11,347.67	0.00	0.00	0.00	
22,900.00	89.93	359.68	10,937.58	11,447.48	65.67	11,447.66	0.00	0.00	0.00	
23,000.00	89.93	359.68	10,937.69	11,547.48	65.11	11,547.66	0.00	0.00	0.00	
23,100.00	89.93	359.68	10,937.81	11,647.48	64.55	11,647.65	0.00	0.00	0.00	
23,200.00	89.93	359.68	10,937.92	11,747.48	63.98	11,747.65	0.00	0.00	0.00	
23,300.00	89.93	359.68	10,938.04	11,847.47	63.42	11,847.64	0.00	0.00	0.00	
23,400.00	89.93	359.68	10,938.16	11,947.47	62.86	11,947.64	0.00	0.00	0.00	
23,500.00	89.93	359.68	10,938.27	12,047.47	62.30	12,047.63	0.00	0.00	0.00	
23,600.00	89.93	359.68	10,938.39	12,147.47	61.73	12,147.62	0.00	0.00	0.00	
23,700.00	89.93	359.68	10,938.51	12,247.47	61.17	12,247.62	0.00	0.00	0.00	
23,800.00	89.93	359.68	10,938.62	12,347.47	60.61	12,347.61	0.00	0.00	0.00	
23,900.00	89.93	359.68	10,938.74	12,447.46	60.05	12,447.61	0.00	0.00	0.00	
24,000.00	89.93	359.68	10,938.85	12,547.46	59.48	12,547.60	0.00	0.00	0.00	
24,100.00	89.93	359.68	10,938.97	12,647.46	58.92	12,647.60	0.00	0.00	0.00	
24,200.00	89.93	359.68	10,939.09	12,747.46	58.36	12,747.59	0.00	0.00	0.00	
24,211.36	89.93	359.68	10,939.10	12,758.82	58.29	12,758.95	0.00	0.00	0.00	

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude		Longitude
FTP (Pure Gold MDP1 - plan misses target center by 30.34ft at 11128.31ft MD (10894.97 TVD, -320.90 N, 131.08 E) - Point	0.00	0.00	10,924.10	-329.33	131.89	461,805.88	706,199.14	32° 16'	6.430264 N	103° 47' 59.800179
PBHL (Pure Gold - plan hits target center - Point	0.00	0.00	10,939.10	12,758.82	58.29	474,893.22	706,125.55	32° 18'	15.940142 N	103° 47' 59.899329



# OXY

## Planning Report

<b>Database:</b>	HOPSPP	<b>Local Co-ordinate Reference:</b>	Well PURE GOLD MDP1 29_17 FED COM 8H
<b>Company:</b>	ENGINEERING DESIGNS	<b>TVD Reference:</b>	RKB=26.5' @ 3384.10ft
<b>Project:</b>	PRD NM DIRECTIONAL PLANS (NAD 1983)	<b>MD Reference:</b>	RKB=26.5' @ 3384.10ft
<b>Site:</b>	Pure Gold MDP1 29_17 Federal Com	<b>North Reference:</b>	Grid
<b>Well:</b>	PURE GOLD MDP1 29_17 FED COM 8H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	WB00		
<b>Design:</b>	Permitting Plan		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
405.10	405.10	RUSTLER				
741.10	741.10	SALADO				
2,683.10	2,683.10	CASTILE				
4,107.10	4,107.10	DELAWARE				
4,136.10	4,136.10	BELL CANYON				
5,057.10	5,057.10	CHERRY CANYON				
6,271.05	6,270.10	BRUSHY CANYON				
7,975.55	7,951.10	BONE SPRING				
9,021.44	8,981.10	BONE SPRING 1ST				
9,679.43	9,629.10	BONE SPRING 2ND				
10,910.28	10,789.10	BONE SPRING 3RD				

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
5,700.00	5,700.00	0.00	0.00	Build 1°/100'	
6,700.00	6,694.93	-85.90	14.08	Hold 10° Tangent	
10,313.09	10,253.13	-705.04	115.58	KOP, Build 10°/100'	
11,311.18	10,924.11	-141.14	130.87	Landing Point	
24,211.36	10,939.10	12,758.82	58.29	TD at 24211.36' MD	

**District I**

1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720

**District II**

811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720

**District III**

1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170

**District IV**

1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

**State of New Mexico**  
**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

COMMENTS

Action 54421

**COMMENTS**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 54421
	Action Type: [C-103] NOI Change of Plans (C-103A)

**COMMENTS**

Created By	Comment	Comment Date
kpickford	KP GEO Review 10/7/2021	10/7/2021
jagarcia	Approved, John Garcia, Petroleum Engineer	10/28/2021

**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720  
**District II**  
811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720  
**District III**  
1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170  
**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

**State of New Mexico**  
**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

CONDITIONS  
  
Action 54421

CONDITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 54421
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
kpickford	Adhere to previous NMOCD Conditions of Approval	10/7/2021