

UNITED STATES **OCD-ARTESIA**
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: March 31, 2007

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE- Other instructions on reverse side.

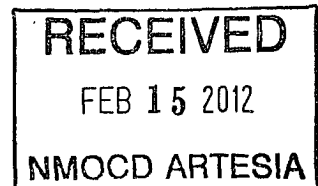
1. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other		5. Lease Serial No. NMNM 38463
2. Name of Operator OXY USA Inc. 16696		6. If Indian, Allottee or Tribe Name
3a. Address P.O. Box 50250 Midland, TX 79710	3b. Phone No. (include area code) 432-685-5717	7. If Unit or CA/Agreement, Name and/or No.
4. Location of Well (Footage, Sec., T, R., M., or Survey Description) S-1650 FSL 2381 FWL NESW(K) Sec 20 T23S R31E BH-1979 FSL 986 FWL NWSW(L) " " "		8. Well Name and No. Pure Gold B Federal #15
		9. API Well No. 30-015 - 38520
		10. Field and Pool, or Exploratory Area Sand Dunes Delaware West
		11. County or Parish, State Eddy NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☒ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other Move Surf Loc.
	☒ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	Am TD Prod
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	Csg & Conf

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleation in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

SEE ATTACHED



Accepted for record
NMOC D
TES 2/17/2012

14. I hereby certify that the foregoing is true and correct Name (Printed/Typed) David Stewart		Title Regulatory Advisor
Signature		Date 12/29/11

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by James A. Amos	Title FIELD MANAGER	Date FEB 9 2012
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.		
OTARLSBAD FIELD OFFICE		

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.

Amended Drilling Permit Information

Operator Name/Number: OXY USA Inc. 16696

Lease Name/Number: Pure Gold B Federal # 15 Federal Lease No. NMNM38463

Pool Name/Number: Sand Dunes Delaware, West

Surface Location: 1650 FSL 2381 FWL NESW(K) Sec 20 T23S R31E

PBH Location: 1979 FSL 986 FWL NWSW(L) Sec 20 T23S R31E

C-102 Plats: 12/12/11 12/19/11 12/22/11 Elevation: 3335.6' GR

SL - Lat: 32.2871087 Long: 103.8001793 X=664758.9 Y=468576.8 NAD - 1927

PBHL- Lat: 32.2880135 Long: 103.8046940 X=663362.1 Y=468899.1 NAD - 1927

U.S.G.S Topographic Map: Los Medanos

Proposed TD: 8510' TMD 8080' TVD

Casing Program:

<u>Hole Size</u>	<u>Interval</u>	<u>OD Csg</u>	<u>Weight</u>	<u>Collar</u>	<u>Grade</u>	<u>Condition</u>	<u>Collapse Design Factor</u>	<u>Burst Design Factor</u>	<u>Tension Design Factor</u>
7-7/8"	8510' MD	5-1/2"	17#	LTC	J55	New	1.34	1.37	1.63
	DVT-6100' TVD								
	POST-4250' TVD								

Cement Program

- c. 5-1/2" Production Cement 1st stage w/ 540 sx Super H w/ .5% Halad R344 + .4% CFR-3 + 3#/sx Kol-Seal + 1#/sx Salt + .2% HR-601, 13.2ppg 1.63 yield 1817psi 24hr CS 100% Excess Calc TOC 6050'
- Cement 2nd stage w/ 630sx Super H w/ .5% Halad R-344 + .4% CFR-3 + .25#/sx Gilsonite + .125 #/sx Poly-E-Flake, 13.2ppg 1.62 yield 1536psi 24hr CS 200% Excess Calc TOC 4100'
- Cement 3rd stage w/ 460sx HES light PPt, 12.4ppg 1.98 yield 560psi 24hr CS 35% Excess followed by 100sx PPC, 14.8ppg 1.33 yield 1600psi 24hr CS 35% Excess Calc TOC @ Surface
- The above cement volumes could be revised pending the caliper measurement.



Scientific Drilling

Project: Pure Gold
Site: Pure Gold B Federal #15
Well: PGBF#15
Wellbore: Original Wellbore
Design: Final Design (Revised TD)



PROJECT DETAILS: Pure Gold

Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001
System Datum: Mean Sea Level

SECTION DETAILS

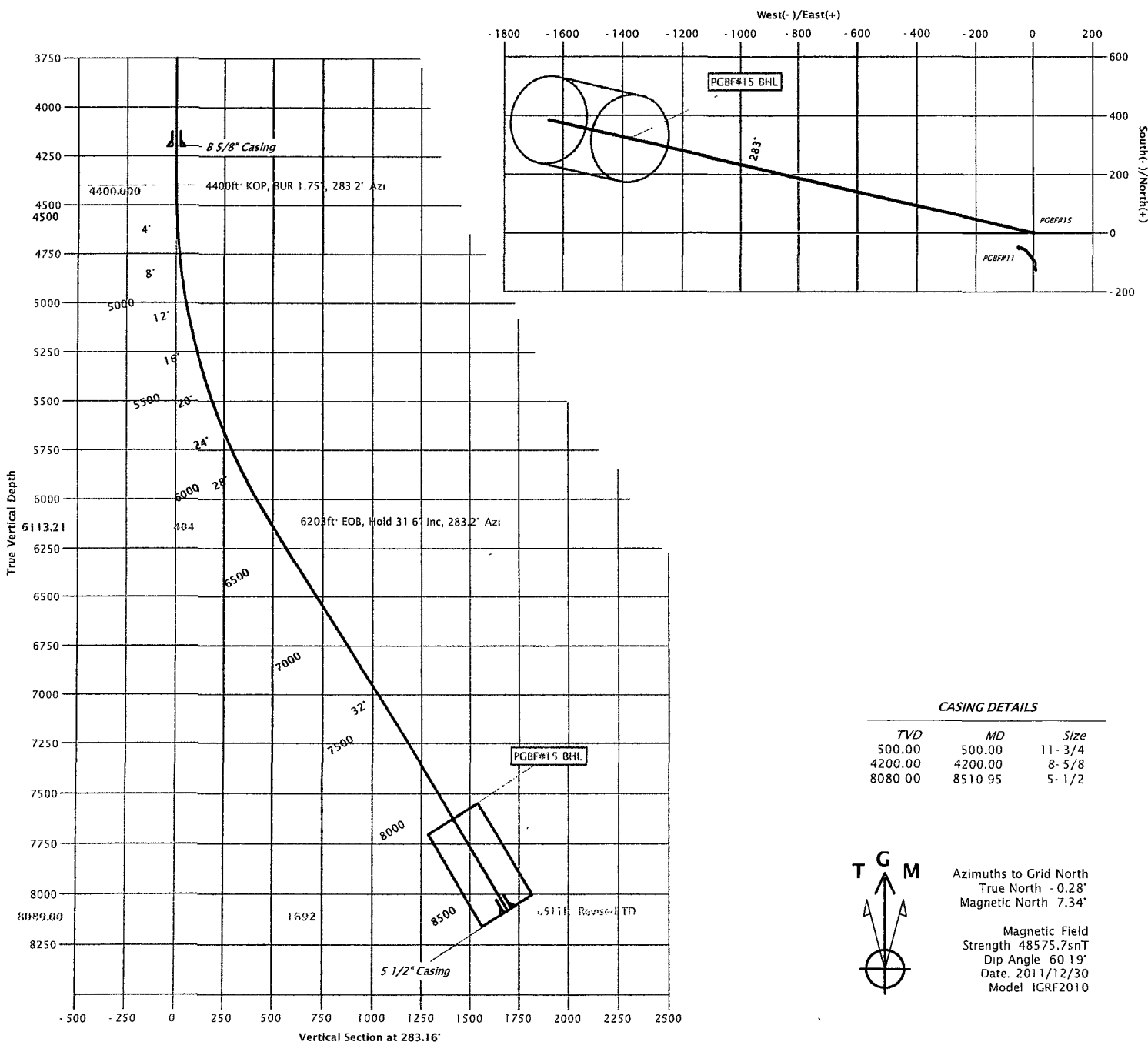
MD	Inc	Azi	TVD	+N/-S	+E/-W	DLS	VS	Target
0 00	0 00	0.00	0.00	0 00	0.00	0.00	0.00	
4400 00	0.00	0.00	4400 00	0.00	0.00	0.00	0.00	
6202.96	31.55	283.16	6113.21	110.23	-471.29	1.75	484.01	
7978.19	31.55	283.16	7626.00	321.80	-1375.80	0.00	1412.93	PGBF#15 BHL
8323.19	31.55	283.16	7920.00	362.92	-1551.58	0.00	1593.46	
8510.95	31.55	283.16	8080.00	385.29	-1647.25	0.00	1691.71	

SITE DETAILS: Pure Gold B Federal #15

Sec 20 (K), T23S, R31E, NMPM
Eddy Co., New Mexico
Northing: 468577.30
Easting: 664737.90
Elevation: 3335.40
KB DFE @ 3351.90usft (H&P: 345 DFE.16.5ft)

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
PGBF#15 BHL	7626.00	321.80	-1375.80	468899.10	663362.10	Circle (Radius: 150.00)
- plan hits target center						



Database:	EDM-MPF	Local Co-ordinate Reference:	Well PGBF#15
Company:	OXY	TVD Reference:	DFE @ 3351.90usft (H&P-345 DFE: 16.5ft)
Project:	Pure Gold	MD Reference:	DFE @ 3351.90usft (H&P-345 DFE: 16.5ft)
Site:	Pure Gold B Federal #15	North Reference:	Grid
Well:	PGBF#15	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Wellbore		
Design:	Final Design (Revised TD)		

Project:	Pure Gold, New Mexico		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site:	Pure Gold B Federal #15, Sec 20 (K), T23S, R31E, NMPM		
Site Position:		Northing:	468,577.30 usft
From:	Map	Easting:	664,737.90 usft
Position Uncertainty:	0.00 usft	Slot Radius:	0 "
		Latitude:	32° 17' 13.597 N
		Longitude:	103° 48' 0.890 W
		Grid Convergence:	0.28 °

Well	PGBF#15					
Well Position	+N-S	0.00 usft	Northing:	468,577.30 usft	Latitude:	32° 17' 13.597 N
	+E-W	0.00 usft	Easting:	664,737.90 usft	Longitude:	103° 48' 0.890 W
Position Uncertainty		0.00 usft	Wellhead Elevation:		Ground Level:	3,335.40 usft

Wellbore	Original Wellbore				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	2011/12/30	7.63	60.19	48,576

Design:	Final Design (Revised TD)			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N-S	+E-W	Direction
	(usft)	(usft)	(usft)	(°)
	0.00	0.00	0.00	283.16

Plan Sections										
Measured	Inclination	Azimuth	Vertical	+N-S	+E-W	Dogleg	Build	Turn	TFO	Target
Depth	(°)	(°)	Depth	(usft)	(usft)	Rate	Rate	Rate	(°)	
(usft)			(usft)			(°/100usft)	(°/100usft)	(°/100usft)		
0.00	0.00	0.00	0.00	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	
6,202.96	31.55	283.16	6,113.21	110.23	-471.29	1.75	1.75	0.00	283.16	
7,978.19	31.55	283.16	7,626.00	321.80	-1,375.80	0.00	0.00	0.00	0.00	PGBF#15 BHL
8,323.19	31.55	283.16	7,920.00	362.92	-1,551.58	0.00	0.00	0.00	0.00	
8,510.95	31.55	283.16	8,080.00	385.29	-1,647.25	0.00	0.00	0.00	0.00	

Database:	EDM-MPF	Local Co-ordinate Reference:	Well PGBF#15
Company:	OXY	TVD Reference:	DFE @ 3351.90usft (H&P-345 DFE 16.5ft)
Project:	Pure Gold	MD Reference:	DFE @ 3351.90usft (H&P-345 DFE 16.5ft)
Site:	Pure Gold B Federal #15	North Reference:	Grid
Well:	PGBF#15	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Wellbore		
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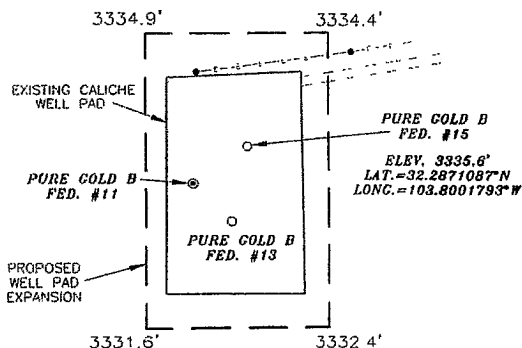
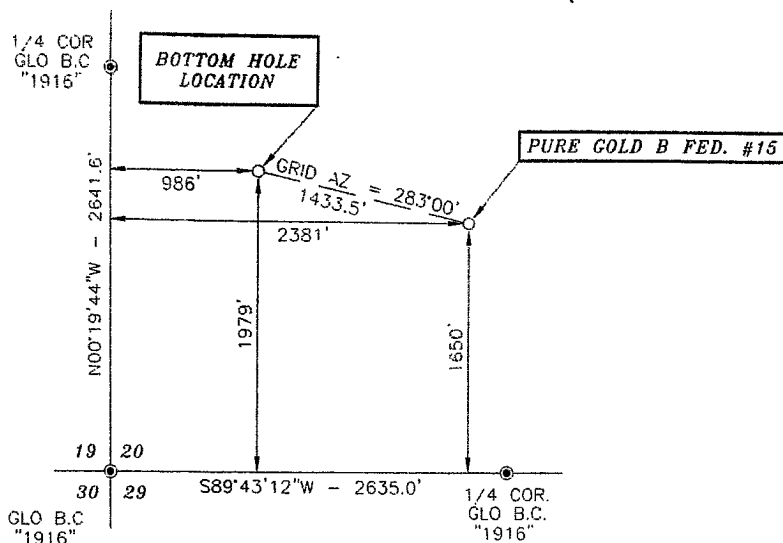
Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	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
11-3/4" Casing									
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
8 5/8" Casing									
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
4400ft: KOP, BUR 1.75°, 283.2° Azi									
4,500.00	1.75	283.16	4,499.98	0.35	-1.49	1.53	1.75	1.75	0.00
4,600.00	3.50	283.16	4,599.88	1.39	-5.95	6.11	1.75	1.75	0.00
4,700.00	5.25	283.16	4,699.58	3.13	-13.37	13.73	1.75	1.75	0.00
4,800.00	7.00	283.16	4,799.01	5.56	-23.76	24.40	1.75	1.75	0.00
4,900.00	8.75	283.16	4,898.06	8.68	-37.10	38.10	1.75	1.75	0.00

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Company:	OXY	TVD Reference:	DFE @ 3351.90usft (H&P-345 DFE: 16.5ft)
Project:	Pure Gold	MD Reference:	DFE @ 3351.90usft (H&P-345 DFE: 16.5ft)
Site:	Pure Gold B Federal #15	North Reference:	Grid
Well:	PGBF#15:	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Wellbore		
Design:	Final Design (Revised TD)		

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
500.00	500.00	11-3/4" Casing	11-3/4	14-3/4	
4,200.00	4,200.00	8 5/8" Casing	8-5/8	10-5/8	
8,510.95	8,080.00	5 1/2" Casing	5-1/2	7-7/8	

SECTION 20, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M.,
EDDY COUNTY
NEW MEXICO

Basis of Bearings - GPS Geodetic Measurements
NAD East Zone (83) North American Datum of 1983



SCALE - 1" = 200'

DIRECTIONS:
BEGINNING AT THE INTERSECTION OF
HWY. #128 AND EDDY COUNTY ROAD
#798 (RED ROAD), GO NORTHWEST ON
HWY #128 FOR 3.9 MILES, TURN LEFT
AND GO SOUTH ON LEASE ROAD FOR
0.1 MILES, TURN RIGHT AND GO WEST
ON LEASE ROAD FOR 0.6 MILES TO
LOCATION.



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 12/19/2011
Terry J. Asel, N.M. R.P.S. No. 15079

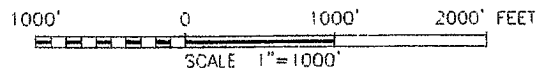
Asel Surveying

P.O. BOX 393 - 310 W. TAYLOR
MOBBS, NEW MEXICO - 575-393-9146



LEGEND

● - DENOTES FOUND MONUMENT AS NOTED



OXY USA, INC.

PURE GOLD B FED. #15 LOCATED AT
1650' FSL & 2381' FWL IN SECTION 20,
TOWNSHIP 23 SOUTH, RANGE 31 EAST,
N.M.P.M., EDDY COUNTY, NEW MEXICO

Survey Date: 05/18/10	Sheet 1 of 1 Sheets
W.O. Number: 100119WL-b (Rev B)	Drawn By: KA Rev: B
Date: 12/19/11	100119WL-b Scale: 1"=1000