Well Name: MALTESE 5_8 FEDERAL COM

Well Location: T24S / R35E / SEC 5 / NENW /

County or Parish/State:

Well Number: 31H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM14164

Unit or CA Name:

Unit or CA Number:

US Well Number: 3002548974

Well Status: Approved Application for Permit to Drill

Operator: OXY USA INCORPORATED

Notice of Intent

Sundry ID: 2714925

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 02/09/2023

Time Sundry Submitted: 10:04

Date proposed operation will begin: 03/31/2023

Procedure Description: OXY USA INC. RESPECTFULLY REQUESTS APPROVAL TO AMEND THE SUBJECT WELL AAPD AS FOLLOWS: CHANGE THE POOL TO THE ANTELOPE RIDGE, WOLFCAMP (POOL CODE 2220) FROM THE ANTELOPE RIDGE; BONE SPRING (POOL CODE 2200). CHANGE THE BHL TO 20' FSL & 334' FWL, FROM THE CURRENT 20' FSL & 1000' FWL. THE HORIZONAL SPACING UNIT ALSO IS CHANGING, PER THE ATTACHED NEW PLAT. UPDATED DRILL PLANS ARE ALSO ATTACHED TO REFLECT THIS REQUEST FOR CHANGES.

NOI Attachments

Procedure Description

Maltese5_8FedCom31H_C_102_20230209095958.pdf

Maltese5_8FedCom31H_TNSWedge425_5.500in_20.00ppf_P110CY_20230209095734.pdf

Maltese5_8FedCom31H_TNSWedge461_5.500in_20.00ppf_P110CY_20230209095736.pdf

Maltese5_8FedCom31H_StandardSL1TiebackDetails_20230209095734.pdf

Maltese5_8FedCom31H_TNSWedge441_5.500in_20.00ppf_P110CY_20230209095736.pdf

Maltese5_8FedCom31H_DirectPlan_20230209095725.pdf

Maltese5_8FedCom31H_DrillPlan_20230209095725.pdf

Maltese5_8FedCom31H_13inADAPT_10.75in_7.625in_10x10_20230209095725.pdf

Well Name: MALTESE 5_8 FEDERAL COM	**Well Location:** T24S / R35E / SEC 5 / NENW /	**County or Parish/State:**
Well Number: 31H	**Type of Well:** OIL WELL	**Allottee or Tribe Name:**
Lease Number: NMNM14164	**Unit or CA Name:**	**Unit or CA Number:**
US Well Number: 3002548974	**Well Status:** Approved Application for Permit to Drill	**Operator:** OXY USA INCORPORATED

Maltese5_8FedCom31H_DirectPlot_20230209095725.pdf

Maltese5_8FedCom31H_OxyWellControlPlan_20230209095725.pdf

Operator

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

Operator Electronic Signature: SARAH MCKINNEY **Signed on:** FEB 09, 2023 10:00 AM

Name: OXY USA INCORPORATED

Title: Regulatory Analyst Sr

Street Address: 5 GREENWAY PLAZA SUITE 110

City: HOUSTON **State:** TX

Phone: (713) 215-7295

Email address: SARAH_MCKINNEY@OXY.COM

Field

Representative Name:

Street Address:

City: **State:** **Zip:**

Phone:

Email address:

BLM Point of Contact

BLM POC Name: KEITH P IMMATTY **BLM POC Title:** ENGINEER

BLM POC Phone: 5759884722 **BLM POC Email Address:** KIMMATTY@BLM.GOV

Disposition: Approved **Disposition Date:** 04/04/2023

Signature: KEITH IMMATTY

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

[1] API Number	[2] Pool Code	[3] Pool Name
30-025-48974	2220	Antelope Ridge, Wolfcamp

[4] Property Code	[5] Property Name	[6] Well Number
330861	MALTESE 5_8 FED COM	31H

[7] OGRID No.	[8] Operator Name	[9] Elevation
16696	OXY USA INC.	3454.3' (NAVD 88)

[10] Surface Location

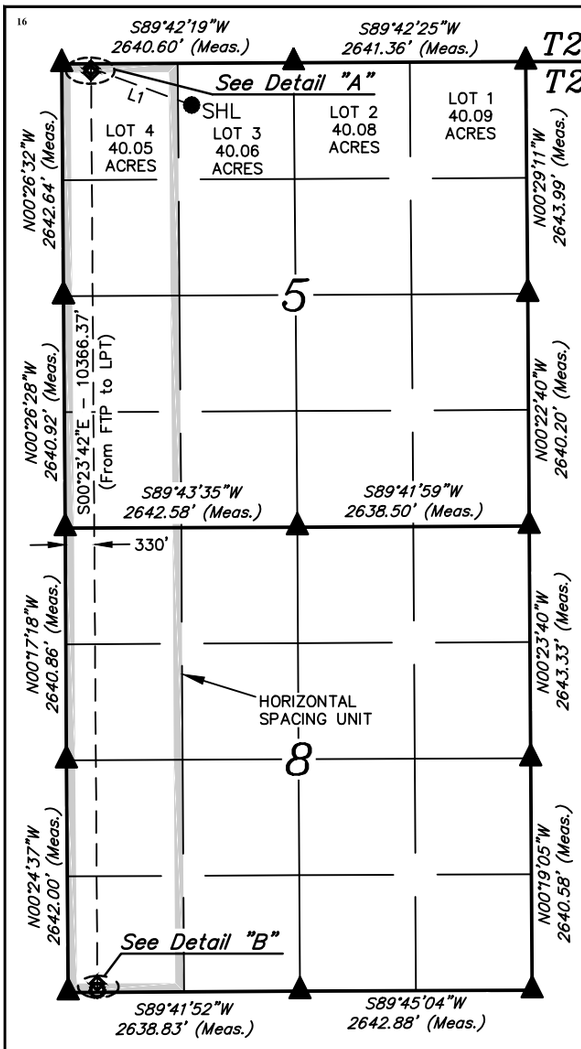
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
3	5	24S	35E		475	NORTH	1475	WEST	LEA

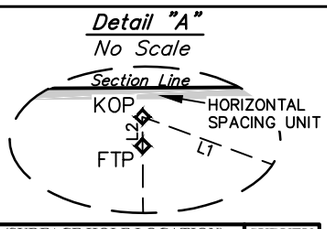
[11] Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	8	24S	35E		20	SOUTH	334	WEST	LEA

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.
320.05			

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.





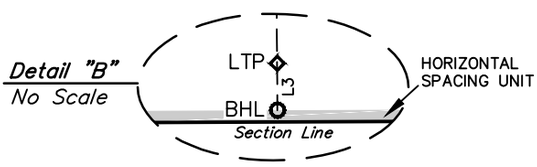
NAD 83 (SURFACE HOLE LOCATION)	SURVEY
LATITUDE = 32°15'09.06" (32.252518°)	PERP.
LONGITUDE = 103°23'36.14" (103.393373°)	475' FNL
NAD 27 (SURFACE HOLE LOCATION)	1475' FWL
LATITUDE = 32°15'08.61" (32.252392°)	
LONGITUDE = 103°23'34.44" (103.392900°)	
STATE PLANE NAD 83 (N.M. EAST)	
N: 456871.22' E: 831918.22'	
STATE PLANE NAD 27 (N.M. EAST)	
N: 456811.82' E: 790733.56'	

NAD 83 (KICK OFF POINT)	SURVEY
LATITUDE = 32°15'13.26" (32.253684°)	PERP.
LONGITUDE = 103°23'49.43" (103.397065°)	50' FNL
NAD 27 (KICK OFF POINT)	334' FWL
LATITUDE = 32°15'12.81" (32.253559°)	
LONGITUDE = 103°23'47.73" (103.396592°)	
STATE PLANE NAD 83 (N.M. EAST)	
N: 457285.59' E: 830773.11'	
STATE PLANE NAD 27 (N.M. EAST)	
N: 457226.18' E: 789588.49'	

NAD 83 (FIRST TAKE POINT)	SURVEY
LATITUDE = 32°15'12.77" (32.253546°)	PERP.
LONGITUDE = 103°23'49.43" (103.397065°)	100' FNL
NAD 27 (FIRST TAKE POINT)	334' FWL
LATITUDE = 32°15'12.32" (32.253421°)	
LONGITUDE = 103°23'47.73" (103.396591°)	
STATE PLANE NAD 83 (N.M. EAST)	
N: 457235.60' E: 830773.70'	
STATE PLANE NAD 27 (N.M. EAST)	
N: 457176.19' E: 789589.08'	

NAD 83 (LAST TAKE POINT)	SURVEY
LATITUDE = 32°13'30.21" (32.225058°)	PERP.
LONGITUDE = 103°23'49.15" (103.396985°)	100' FSL
NAD 27 (LAST TAKE POINT)	334' FWL
LATITUDE = 32°13'29.76" (32.224932°)	
LONGITUDE = 103°23'47.45" (103.396514°)	
STATE PLANE NAD 83 (N.M. EAST)	
N: 446871.45' E: 830888.57'	
STATE PLANE NAD 27 (N.M. EAST)	
N: 446812.32' E: 789703.53'	

NAD 83 (BOTTOM HOLE LOCATION)	SURVEY
LATITUDE = 32°13'29.42" (32.224838°)	PERP.
LONGITUDE = 103°23'49.14" (103.396985°)	20' FSL
NAD 27 (BOTTOM HOLE LOCATION)	334' FWL
LATITUDE = 32°13'28.96" (32.224712°)	
LONGITUDE = 103°23'47.45" (103.396513°)	
STATE PLANE NAD 83 (N.M. EAST)	
N: 446791.47' E: 830889.48'	
STATE PLANE NAD 27 (N.M. EAST)	
N: 446732.34' E: 789704.43'	



● = SURFACE HOLE LOCATION
◇ = KICK OFF/TAKE POINT
○ = BOTTOM HOLE LOCATION
▲ = SECTION CORNER LOCATED

2000' 1000' 0' 2000'
SCALE

DRAWN BY: K.A. 12-23-19
REV: 2 01-25-21 R.J. (WELL BORE CHANGE)

NOTE:
- Distances referenced on plat to section lines are perpendicular.
- Basis of Bearing is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83)

LINE TABLE		
LINE	DIRECTION	LENGTH
L1	N69°52'01"W	1217.96'
L2	S00°26'32"E	50.00'
L3	S00°24'37"E	80.00'

[17] OPERATOR CERTIFICATION

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.

Sarah Mckinney 02/09/23
Signature Date

Sarah McKinney
Printed Name

sarah_mckinney@oxy.com
E-mail Address

[18] SURVEYOR CERTIFICATION

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.

December 12, 2019
Date of Survey

Signature and Seal of Professional Surveyor:

Certificate Number:

OXY

PRD NM DIRECTIONAL PLANS (NAD 1983)
Maltese 5_8
Maltese 5_8 Fed Com 31H

Wellbore #1

Plan: Permitting Plan

Standard Planning Report

08 December, 2022

OXY
Planning Report

Database:	HOPSPP	**Local Co-ordinate Reference:**	Well Maltese 5_8 Fed Com 31H
Company:	ENGINEERING DESIGNS	**TVD Reference:**	RKB=26.5' @ 3480.80ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	**MD Reference:**	RKB=26.5' @ 3480.80ft
Site:	Maltese 5_8	**North Reference:**	Grid
Well:	Maltese 5_8 Fed Com 31H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

Project PRD NM DIRECTIONAL PLANS (NAD 1983)

Map System:	US State Plane 1983	**System Datum:**	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		Using geodetic scale factor

Site Maltese 5_8

Site Position:		**Northing:**	457,080.97 usft	**Latitude:**	32.253095
From:	Map	**Easting:**	831,886.72 usft	**Longitude:**	-103.393469
Position Uncertainty:	1.00 ft	**Slot Radius:**	13.200 in		

Well Maltese 5_8 Fed Com 31H

Well Position	**+N/-S**	0.00 ft	**Northing:**	456,871.22 usf	**Latitude:**	32.252518
	+E/-W	0.00 ft	**Easting:**	831,918.22 usf	**Longitude:**	-103.393373
Position Uncertainty		1.00 ft	**Wellhead Elevation:**	ft	**Ground Level:**	3,454.30 ft
Grid Convergence:		0.50 °				

Wellbore Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM_FILE	12/31/2019	6.62	59.87	47,834.20000000

Design Permitting Plan

Audit Notes:

Version:		**Phase:**	PROTOTYPE	**Tie On Depth:**	0.00

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	185.83

Plan Survey Tool Program **Date** 12/8/2022

	Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	22,413.53	Permitting Plan (Wellbore #1)	B001Mb_MWD+HRGM	
				OWSG MWD + HRGM	

Plan Sections

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5,620.00	0.00	0.00	5,620.00	0.00	0.00	0.00	0.00	0.00	0.00	
6,820.29	12.00	291.84	6,811.53	46.60	-116.27	1.00	1.00	0.00	291.84	
11,545.39	12.00	291.84	11,433.33	412.17	-1,028.38	0.00	0.00	0.00	0.00	
12,478.53	88.73	179.36	12,040.60	-147.76	-1,138.84	10.00	8.22	-12.05	-112.28	
22,413.53	88.73	179.36	12,260.80	-10,079.71	-1,028.74	0.00	0.00	0.00	0.00	PBHL (Maltese 5_8

OXY

Planning Report

Database:	HOPSPP	**Local Co-ordinate Reference:**	Well Maltese 5_8 Fed Com 31H
Company:	ENGINEERING DESIGNS	**TVD Reference:**	RKB=26.5' @ 3480.80ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	**MD Reference:**	RKB=26.5' @ 3480.80ft
Site:	Maltese 5_8	**North Reference:**	Grid
Well:	Maltese 5_8 Fed Com 31H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	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
5,400.00	0.00	0.00	5,400.00	0.00	0.00	0.00	0.00	0.00	0.00

OXY

Planning Report

Database:	HOPSPP	**Local Co-ordinate Reference:**	Well Maltese 5_8 Fed Com 31H
Company:	ENGINEERING DESIGNS	**TVD Reference:**	RKB=26.5' @ 3480.80ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	**MD Reference:**	RKB=26.5' @ 3480.80ft
Site:	Maltese 5_8	**North Reference:**	Grid
Well:	Maltese 5_8 Fed Com 31H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	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)
5,500.00	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
5,620.00	0.00	0.00	5,620.00	0.00	0.00	0.00	0.00	0.00	0.00
5,700.00	0.80	291.84	5,700.00	0.21	-0.52	-0.15	1.00	1.00	0.00
5,800.00	1.80	291.84	5,799.97	1.05	-2.62	-0.78	1.00	1.00	0.00
5,900.00	2.80	291.84	5,899.89	2.54	-6.35	-1.89	1.00	1.00	0.00
6,000.00	3.80	291.84	5,999.72	4.69	-11.69	-3.47	1.00	1.00	0.00
6,100.00	4.80	291.84	6,099.44	7.48	-18.65	-5.54	1.00	1.00	0.00
6,200.00	5.80	291.84	6,199.01	10.91	-27.23	-8.09	1.00	1.00	0.00
6,300.00	6.80	291.84	6,298.40	14.99	-37.41	-11.12	1.00	1.00	0.00
6,400.00	7.80	291.84	6,397.59	19.72	-49.21	-14.62	1.00	1.00	0.00
6,500.00	8.80	291.84	6,496.54	25.09	-62.61	-18.61	1.00	1.00	0.00
6,600.00	9.80	291.84	6,595.23	31.10	-77.61	-23.06	1.00	1.00	0.00
6,700.00	10.80	291.84	6,693.62	37.76	-94.20	-28.00	1.00	1.00	0.00
6,800.00	11.80	291.84	6,791.68	45.05	-112.39	-33.40	1.00	1.00	0.00
6,820.29	12.00	291.84	6,811.53	46.60	-116.27	-34.56	1.00	1.00	0.00
6,900.00	12.00	291.84	6,889.50	52.77	-131.66	-39.13	0.00	0.00	0.00
7,000.00	12.00	291.84	6,987.31	60.51	-150.96	-44.87	0.00	0.00	0.00
7,100.00	12.00	291.84	7,085.12	68.24	-170.27	-50.60	0.00	0.00	0.00
7,200.00	12.00	291.84	7,182.94	75.98	-189.57	-56.34	0.00	0.00	0.00
7,300.00	12.00	291.84	7,280.75	83.72	-208.87	-62.08	0.00	0.00	0.00
7,400.00	12.00	291.84	7,378.57	91.45	-228.18	-67.81	0.00	0.00	0.00
7,500.00	12.00	291.84	7,476.38	99.19	-247.48	-73.55	0.00	0.00	0.00
7,600.00	12.00	291.84	7,574.19	106.93	-266.78	-79.29	0.00	0.00	0.00
7,700.00	12.00	291.84	7,672.01	114.66	-286.09	-85.02	0.00	0.00	0.00
7,800.00	12.00	291.84	7,769.82	122.40	-305.39	-90.76	0.00	0.00	0.00
7,900.00	12.00	291.84	7,867.63	130.14	-324.69	-96.50	0.00	0.00	0.00
8,000.00	12.00	291.84	7,965.45	137.87	-344.00	-102.23	0.00	0.00	0.00
8,100.00	12.00	291.84	8,063.26	145.61	-363.30	-107.97	0.00	0.00	0.00
8,200.00	12.00	291.84	8,161.08	153.35	-382.60	-113.71	0.00	0.00	0.00
8,300.00	12.00	291.84	8,258.89	161.08	-401.91	-119.45	0.00	0.00	0.00
8,400.00	12.00	291.84	8,356.70	168.82	-421.21	-125.18	0.00	0.00	0.00
8,500.00	12.00	291.84	8,454.52	176.56	-440.51	-130.92	0.00	0.00	0.00
8,600.00	12.00	291.84	8,552.33	184.30	-459.82	-136.66	0.00	0.00	0.00
8,700.00	12.00	291.84	8,650.14	192.03	-479.12	-142.39	0.00	0.00	0.00
8,800.00	12.00	291.84	8,747.96	199.77	-498.42	-148.13	0.00	0.00	0.00
8,900.00	12.00	291.84	8,845.77	207.51	-517.73	-153.87	0.00	0.00	0.00
9,000.00	12.00	291.84	8,943.59	215.24	-537.03	-159.60	0.00	0.00	0.00
9,100.00	12.00	291.84	9,041.40	222.98	-556.33	-165.34	0.00	0.00	0.00
9,200.00	12.00	291.84	9,139.21	230.72	-575.64	-171.08	0.00	0.00	0.00
9,300.00	12.00	291.84	9,237.03	238.45	-594.94	-176.81	0.00	0.00	0.00
9,400.00	12.00	291.84	9,334.84	246.19	-614.24	-182.55	0.00	0.00	0.00
9,500.00	12.00	291.84	9,432.65	253.93	-633.55	-188.29	0.00	0.00	0.00
9,600.00	12.00	291.84	9,530.47	261.66	-652.85	-194.03	0.00	0.00	0.00
9,700.00	12.00	291.84	9,628.28	269.40	-672.15	-199.76	0.00	0.00	0.00
9,800.00	12.00	291.84	9,726.10	277.14	-691.46	-205.50	0.00	0.00	0.00
9,900.00	12.00	291.84	9,823.91	284.87	-710.76	-211.24	0.00	0.00	0.00
10,000.00	12.00	291.84	9,921.72	292.61	-730.06	-216.97	0.00	0.00	0.00
10,100.00	12.00	291.84	10,019.54	300.35	-749.37	-222.71	0.00	0.00	0.00
10,200.00	12.00	291.84	10,117.35	308.08	-768.67	-228.45	0.00	0.00	0.00
10,300.00	12.00	291.84	10,215.16	315.82	-787.97	-234.18	0.00	0.00	0.00
10,400.00	12.00	291.84	10,312.98	323.56	-807.28	-239.92	0.00	0.00	0.00
10,500.00	12.00	291.84	10,410.79	331.29	-826.58	-245.66	0.00	0.00	0.00
10,600.00	12.00	291.84	10,508.60	339.03	-845.88	-251.39	0.00	0.00	0.00
10,700.00	12.00	291.84	10,606.42	346.77	-865.19	-257.13	0.00	0.00	0.00

OXY
Planning Report

Database:	HOPSPP	**Local Co-ordinate Reference:**	Well Maltese 5_8 Fed Com 31H
Company:	ENGINEERING DESIGNS	**TVD Reference:**	RKB=26.5' @ 3480.80ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	**MD Reference:**	RKB=26.5' @ 3480.80ft
Site:	Maltese 5_8	**North Reference:**	Grid
Well:	Maltese 5_8 Fed Com 31H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	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)
10,800.00	12.00	291.84	10,704.23	354.50	-884.49	-262.87	0.00	0.00	0.00
10,900.00	12.00	291.84	10,802.05	362.24	-903.79	-268.60	0.00	0.00	0.00
11,000.00	12.00	291.84	10,899.86	369.98	-923.10	-274.34	0.00	0.00	0.00
11,100.00	12.00	291.84	10,997.67	377.71	-942.40	-280.08	0.00	0.00	0.00
11,200.00	12.00	291.84	11,095.49	385.45	-961.70	-285.82	0.00	0.00	0.00
11,300.00	12.00	291.84	11,193.30	393.19	-981.01	-291.55	0.00	0.00	0.00
11,400.00	12.00	291.84	11,291.11	400.93	-1,000.31	-297.29	0.00	0.00	0.00
11,500.00	12.00	291.84	11,388.93	408.66	-1,019.61	-303.03	0.00	0.00	0.00
11,545.39	12.00	291.84	11,433.33	412.17	-1,028.38	-305.63	0.00	0.00	0.00
11,600.00	11.13	264.69	11,486.87	413.80	-1,038.90	-306.18	10.00	-1.60	-49.72
11,700.00	15.47	224.22	11,584.36	403.32	-1,057.86	-293.83	10.00	4.35	-40.47
11,800.00	23.50	205.92	11,678.64	375.76	-1,075.93	-264.57	10.00	8.03	-18.31
11,900.00	32.60	196.97	11,766.84	331.94	-1,092.55	-219.30	10.00	9.10	-8.95
12,000.00	42.08	191.66	11,846.27	273.22	-1,107.22	-159.38	10.00	9.48	-5.31
12,100.00	51.72	188.02	11,914.54	201.35	-1,119.50	-86.65	10.00	9.64	-3.64
12,200.00	61.45	185.24	11,969.55	118.54	-1,129.01	-3.30	10.00	9.73	-2.78
12,300.00	71.22	182.94	12,009.64	27.30	-1,135.47	88.13	10.00	9.78	-2.30
12,400.00	81.03	180.89	12,033.60	-69.61	-1,138.67	184.86	10.00	9.80	-2.05
12,478.53	88.73	179.36	12,040.60	-147.76	-1,138.84	262.63	10.00	9.81	-1.94
12,500.00	88.73	179.36	12,041.08	-169.23	-1,138.60	283.96	0.00	0.00	0.00
12,600.00	88.73	179.36	12,043.29	-269.20	-1,137.49	383.30	0.00	0.00	0.00
12,700.00	88.73	179.36	12,045.51	-369.17	-1,136.38	482.64	0.00	0.00	0.00
12,800.00	88.73	179.36	12,047.73	-469.13	-1,135.28	581.98	0.00	0.00	0.00
12,900.00	88.73	179.36	12,049.94	-569.10	-1,134.17	681.32	0.00	0.00	0.00
13,000.00	88.73	179.36	12,052.16	-669.07	-1,133.06	780.66	0.00	0.00	0.00
13,100.00	88.73	179.36	12,054.38	-769.04	-1,131.95	880.00	0.00	0.00	0.00
13,200.00	88.73	179.36	12,056.59	-869.01	-1,130.84	979.34	0.00	0.00	0.00
13,300.00	88.73	179.36	12,058.81	-968.98	-1,129.73	1,078.68	0.00	0.00	0.00
13,400.00	88.73	179.36	12,061.03	-1,068.95	-1,128.63	1,178.02	0.00	0.00	0.00
13,500.00	88.73	179.36	12,063.24	-1,168.92	-1,127.52	1,277.36	0.00	0.00	0.00
13,600.00	88.73	179.36	12,065.46	-1,268.89	-1,126.41	1,376.70	0.00	0.00	0.00
13,700.00	88.73	179.36	12,067.67	-1,368.86	-1,125.30	1,476.04	0.00	0.00	0.00
13,800.00	88.73	179.36	12,069.89	-1,468.83	-1,124.19	1,575.38	0.00	0.00	0.00
13,900.00	88.73	179.36	12,072.11	-1,568.80	-1,123.09	1,674.72	0.00	0.00	0.00
14,000.00	88.73	179.36	12,074.32	-1,668.77	-1,121.98	1,774.06	0.00	0.00	0.00
14,100.00	88.73	179.36	12,076.54	-1,768.74	-1,120.87	1,873.40	0.00	0.00	0.00
14,200.00	88.73	179.36	12,078.76	-1,868.70	-1,119.76	1,972.74	0.00	0.00	0.00
14,300.00	88.73	179.36	12,080.97	-1,968.67	-1,118.65	2,072.08	0.00	0.00	0.00
14,400.00	88.73	179.36	12,083.19	-2,068.64	-1,117.54	2,171.42	0.00	0.00	0.00
14,500.00	88.73	179.36	12,085.41	-2,168.61	-1,116.44	2,270.76	0.00	0.00	0.00
14,600.00	88.73	179.36	12,087.62	-2,268.58	-1,115.33	2,370.10	0.00	0.00	0.00
14,700.00	88.73	179.36	12,089.84	-2,368.55	-1,114.22	2,469.44	0.00	0.00	0.00
14,800.00	88.73	179.36	12,092.06	-2,468.52	-1,113.11	2,568.78	0.00	0.00	0.00
14,900.00	88.73	179.36	12,094.27	-2,568.49	-1,112.00	2,668.12	0.00	0.00	0.00
15,000.00	88.73	179.36	12,096.49	-2,668.46	-1,110.89	2,767.46	0.00	0.00	0.00
15,100.00	88.73	179.36	12,098.70	-2,768.43	-1,109.79	2,866.80	0.00	0.00	0.00
15,200.00	88.73	179.36	12,100.92	-2,868.40	-1,108.68	2,966.14	0.00	0.00	0.00
15,300.00	88.73	179.36	12,103.14	-2,968.37	-1,107.57	3,065.48	0.00	0.00	0.00
15,400.00	88.73	179.36	12,105.35	-3,068.34	-1,106.46	3,164.82	0.00	0.00	0.00
15,500.00	88.73	179.36	12,107.57	-3,168.31	-1,105.35	3,264.16	0.00	0.00	0.00
15,600.00	88.73	179.36	12,109.79	-3,268.27	-1,104.25	3,363.50	0.00	0.00	0.00
15,700.00	88.73	179.36	12,112.00	-3,368.24	-1,103.14	3,462.84	0.00	0.00	0.00
15,800.00	88.73	179.36	12,114.22	-3,468.21	-1,102.03	3,562.18	0.00	0.00	0.00
15,900.00	88.73	179.36	12,116.44	-3,568.18	-1,100.92	3,661.52	0.00	0.00	0.00
16,000.00	88.73	179.36	12,118.65	-3,668.15	-1,099.81	3,760.86	0.00	0.00	0.00

OXY
Planning Report

Database:	HOPSPP	**Local Co-ordinate Reference:**	Well Maltese 5_8 Fed Com 31H
Company:	ENGINEERING DESIGNS	**TVD Reference:**	RKB=26.5' @ 3480.80ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	**MD Reference:**	RKB=26.5' @ 3480.80ft
Site:	Maltese 5_8	**North Reference:**	Grid
Well:	Maltese 5_8 Fed Com 31H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	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)
16,100.00	88.73	179.36	12,120.87	-3,768.12	-1,098.70	3,860.20	0.00	0.00	0.00
16,200.00	88.73	179.36	12,123.08	-3,868.09	-1,097.60	3,959.54	0.00	0.00	0.00
16,300.00	88.73	179.36	12,125.30	-3,968.06	-1,096.49	4,058.88	0.00	0.00	0.00
16,400.00	88.73	179.36	12,127.52	-4,068.03	-1,095.38	4,158.22	0.00	0.00	0.00
16,500.00	88.73	179.36	12,129.73	-4,168.00	-1,094.27	4,257.56	0.00	0.00	0.00
16,600.00	88.73	179.36	12,131.95	-4,267.97	-1,093.16	4,356.90	0.00	0.00	0.00
16,700.00	88.73	179.36	12,134.17	-4,367.94	-1,092.05	4,456.24	0.00	0.00	0.00
16,800.00	88.73	179.36	12,136.38	-4,467.91	-1,090.95	4,555.58	0.00	0.00	0.00
16,900.00	88.73	179.36	12,138.60	-4,567.88	-1,089.84	4,654.92	0.00	0.00	0.00
17,000.00	88.73	179.36	12,140.82	-4,667.84	-1,088.73	4,754.26	0.00	0.00	0.00
17,100.00	88.73	179.36	12,143.03	-4,767.81	-1,087.62	4,853.60	0.00	0.00	0.00
17,200.00	88.73	179.36	12,145.25	-4,867.78	-1,086.51	4,952.94	0.00	0.00	0.00
17,300.00	88.73	179.36	12,147.46	-4,967.75	-1,085.41	5,052.28	0.00	0.00	0.00
17,400.00	88.73	179.36	12,149.68	-5,067.72	-1,084.30	5,151.62	0.00	0.00	0.00
17,500.00	88.73	179.36	12,151.90	-5,167.69	-1,083.19	5,250.96	0.00	0.00	0.00
17,600.00	88.73	179.36	12,154.11	-5,267.66	-1,082.08	5,350.31	0.00	0.00	0.00
17,700.00	88.73	179.36	12,156.33	-5,367.63	-1,080.97	5,449.65	0.00	0.00	0.00
17,800.00	88.73	179.36	12,158.55	-5,467.60	-1,079.86	5,548.99	0.00	0.00	0.00
17,900.00	88.73	179.36	12,160.76	-5,567.57	-1,078.76	5,648.33	0.00	0.00	0.00
18,000.00	88.73	179.36	12,162.98	-5,667.54	-1,077.65	5,747.67	0.00	0.00	0.00
18,100.00	88.73	179.36	12,165.20	-5,767.51	-1,076.54	5,847.01	0.00	0.00	0.00
18,200.00	88.73	179.36	12,167.41	-5,867.48	-1,075.43	5,946.35	0.00	0.00	0.00
18,300.00	88.73	179.36	12,169.63	-5,967.45	-1,074.32	6,045.69	0.00	0.00	0.00
18,400.00	88.73	179.36	12,171.84	-6,067.42	-1,073.22	6,145.03	0.00	0.00	0.00
18,500.00	88.73	179.36	12,174.06	-6,167.38	-1,072.11	6,244.37	0.00	0.00	0.00
18,600.00	88.73	179.36	12,176.28	-6,267.35	-1,071.00	6,343.71	0.00	0.00	0.00
18,700.00	88.73	179.36	12,178.49	-6,367.32	-1,069.89	6,443.05	0.00	0.00	0.00
18,800.00	88.73	179.36	12,180.71	-6,467.29	-1,068.78	6,542.39	0.00	0.00	0.00
18,900.00	88.73	179.36	12,182.93	-6,567.26	-1,067.67	6,641.73	0.00	0.00	0.00
19,000.00	88.73	179.36	12,185.14	-6,667.23	-1,066.57	6,741.07	0.00	0.00	0.00
19,100.00	88.73	179.36	12,187.36	-6,767.20	-1,065.46	6,840.41	0.00	0.00	0.00
19,200.00	88.73	179.36	12,189.58	-6,867.17	-1,064.35	6,939.75	0.00	0.00	0.00
19,300.00	88.73	179.36	12,191.79	-6,967.14	-1,063.24	7,039.09	0.00	0.00	0.00
19,400.00	88.73	179.36	12,194.01	-7,067.11	-1,062.13	7,138.43	0.00	0.00	0.00
19,500.00	88.73	179.36	12,196.23	-7,167.08	-1,061.02	7,237.77	0.00	0.00	0.00
19,600.00	88.73	179.36	12,198.44	-7,267.05	-1,059.92	7,337.11	0.00	0.00	0.00
19,700.00	88.73	179.36	12,200.66	-7,367.02	-1,058.81	7,436.45	0.00	0.00	0.00
19,800.00	88.73	179.36	12,202.87	-7,466.99	-1,057.70	7,535.79	0.00	0.00	0.00
19,900.00	88.73	179.36	12,205.09	-7,566.95	-1,056.59	7,635.13	0.00	0.00	0.00
20,000.00	88.73	179.36	12,207.31	-7,666.92	-1,055.48	7,734.47	0.00	0.00	0.00
20,100.00	88.73	179.36	12,209.52	-7,766.89	-1,054.38	7,833.81	0.00	0.00	0.00
20,200.00	88.73	179.36	12,211.74	-7,866.86	-1,053.27	7,933.15	0.00	0.00	0.00
20,300.00	88.73	179.36	12,213.96	-7,966.83	-1,052.16	8,032.49	0.00	0.00	0.00
20,400.00	88.73	179.36	12,216.17	-8,066.80	-1,051.05	8,131.83	0.00	0.00	0.00
20,500.00	88.73	179.36	12,218.39	-8,166.77	-1,049.94	8,231.17	0.00	0.00	0.00
20,600.00	88.73	179.36	12,220.61	-8,266.74	-1,048.83	8,330.51	0.00	0.00	0.00
20,700.00	88.73	179.36	12,222.82	-8,366.71	-1,047.73	8,429.85	0.00	0.00	0.00
20,800.00	88.73	179.36	12,225.04	-8,466.68	-1,046.62	8,529.19	0.00	0.00	0.00
20,900.00	88.73	179.36	12,227.25	-8,566.65	-1,045.51	8,628.53	0.00	0.00	0.00
21,000.00	88.73	179.36	12,229.47	-8,666.62	-1,044.40	8,727.87	0.00	0.00	0.00
21,100.00	88.73	179.36	12,231.69	-8,766.59	-1,043.29	8,827.21	0.00	0.00	0.00
21,200.00	88.73	179.36	12,233.90	-8,866.56	-1,042.18	8,926.55	0.00	0.00	0.00
21,300.00	88.73	179.36	12,236.12	-8,966.52	-1,041.08	9,025.89	0.00	0.00	0.00
21,400.00	88.73	179.36	12,238.34	-9,066.49	-1,039.97	9,125.23	0.00	0.00	0.00
21,500.00	88.73	179.36	12,240.55	-9,166.46	-1,038.86	9,224.57	0.00	0.00	0.00

OXY
Planning Report

Database:	HOPSPP	**Local Co-ordinate Reference:**	Well Maltese 5_8 Fed Com 31H
Company:	ENGINEERING DESIGNS	**TVD Reference:**	RKB=26.5' @ 3480.80ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	**MD Reference:**	RKB=26.5' @ 3480.80ft
Site:	Maltese 5_8	**North Reference:**	Grid
Well:	Maltese 5_8 Fed Com 31H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	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)
21,600.00	88.73	179.36	12,242.77	-9,266.43	-1,037.75	9,323.91	0.00	0.00	0.00
21,700.00	88.73	179.36	12,244.99	-9,366.40	-1,036.64	9,423.25	0.00	0.00	0.00
21,800.00	88.73	179.36	12,247.20	-9,466.37	-1,035.54	9,522.59	0.00	0.00	0.00
21,900.00	88.73	179.36	12,249.42	-9,566.34	-1,034.43	9,621.93	0.00	0.00	0.00
22,000.00	88.73	179.36	12,251.63	-9,666.31	-1,033.32	9,721.27	0.00	0.00	0.00
22,100.00	88.73	179.36	12,253.85	-9,766.28	-1,032.21	9,820.61	0.00	0.00	0.00
22,200.00	88.73	179.36	12,256.07	-9,866.25	-1,031.10	9,919.95	0.00	0.00	0.00
22,300.00	88.73	179.36	12,258.28	-9,966.22	-1,029.99	10,019.29	0.00	0.00	0.00
22,400.00	88.73	179.36	12,260.50	-10,066.19	-1,028.89	10,118.63	0.00	0.00	0.00
22,413.53	88.73	179.36	12,260.80	-10,079.71	-1,028.74	10,132.07	0.00	0.00	0.00

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
FTP (Maltese 5_8 Fed - plan misses target center by 204.07ft at 12072.04ft MD (11896.70 TVD, 222.65 N, -1116.33 E) - Point	0.00	0.00	12,040.80	364.38	-1,144.52	457,235.60	830,773.70	32.253547	-103.397065
PBHL (Maltese 5_8 - plan hits target center - Point	0.00	0.00	12,260.80	-10,079.71	-1,028.74	446,791.47	830,889.48	32.224838	-103.396985

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
803.80	803.80	RUSTLER			
1,163.80	1,163.80	SALADO			
3,459.80	3,459.80	CASTILE			
5,304.80	5,304.80	DELAWARE			
5,352.80	5,352.80	BELL CANYON			
6,230.96	6,229.80	CHERRY CANYON			
7,639.47	7,612.80	BRUSHY CANYON			
8,830.51	8,777.80	BONE SPRING			
10,031.77	9,952.80	BONE SPRING 1ST			
10,519.43	10,429.80	BONE SPRING 2ND			
11,539.74	11,427.80	BONE SPRING 3RD			
11,914.31	11,778.80	WOLFCAMP			

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
5,620.00	5,620.00	0.00	0.00	Build 1°/100'
6,820.29	6,811.53	46.60	-116.27	Hold 12° Tangent
11,545.39	11,433.33	412.17	-1,028.38	KOP, Build & Turn 10°/100'
12,478.53	12,040.60	-147.76	-1,138.84	Landing Point
22,413.53	12,260.80	-10,079.71	-1,028.74	TD at 22413.53' MD

PROJECT DETAILS: NM DIRECTIONAL PLANS (NAD 1983)

Project: PRD NM DIRECTIONAL PLANS (NAD 1983)
Site: Maltese 5_8
Well: Maltese 5_8 Fed Com 31H
Wellbore: Wellbore #1
Design: Permitting Plan

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone

System Datum: Mean Sea Level

WELL DETAILS: Maltese 5_8 Fed Com 31H

3454.30

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	456871.22	831918.22	32.252517	-103.393373

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5620.00	0.00	0.00	5620.00	0.00	0.00	0.00	0.00	0.00	Build 1°/100'
6820.29	12.00	291.84	6811.53	46.60	-116.27	1.00	291.84	-34.56	Hold 12° Tangent
11545.39	12.00	291.84	11433.33	412.17	-1028.38	0.00	0.00	-305.63	KOP, Build & Turn 10°/100'
12478.53	88.73	179.36	12040.60	-147.76	-1138.84	10.00	-112.28	262.63	Landing Point
22413.53	88.73	179.36	12260.80	-10079.71	-1028.74	0.00	0.00	10132.07	TD at 22413.53' MD

Azimuths to Grid North
True North: -0.50°
Magnetic North: 6.11°

Magnetic Field
Strength: 47834.2nT
Dip Angle: 59.87°
Date: 12/31/2019
Model: HDGM_FILE

Oxy USA Inc. - Maltese 5_8 Fed Com 31H

Drill Plan

1. Geologic Formations

TVD of Target (ft):	12261	Pilot Hole Depth (ft):	
Total Measured Depth (ft):	22414	Deepest Expected Fresh Water (ft):	804

Delaware Basin

Formation	MD-RKB (ft)	TVD-RKB (ft)	Expected Fluids
Rustler	804	804	
Salado	1164	1164	Salt
Castile	3460	3460	Salt
Delaware	5305	5305	Oil/Gas/Brine
Bell Canyon	5353	5353	Oil/Gas/Brine
Cherry Canyon	6231	6230	Oil/Gas/Brine
Brushy Canyon	7639	7613	Losses
Bone Spring	8831	8778	Oil/Gas
Bone Spring 1st	10032	9953	Oil/Gas
Bone Spring 2nd	10519	10430	Oil/Gas
Bone Spring 3rd	11540	11428	Oil/Gas
Wolfcamp	11914	11779	Oil/Gas
Penn			Oil/Gas
Strawn			Oil/Gas

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

2. Casing Program

		MD		TVD					
Section	Hole Size (in)	From (ft)	To (ft)	From (ft)	To (ft)	Csg. OD (in)	Csg Wt. (ppf)	Grade	Conn.
Surface	14.75	0	864	0	864	10.75	45.5	J-55	BTC
Intermediate	9.875	0	6945	0	6833	7.625	26.4	L-80 HC	BTC
Intermediate	9.875	6945	11445	6833	11333	7.625	29.7	L-80 HC	BTC
Production	6.75	11345	22414	11233	12261	5.5	20	P-110	Wedge 461

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

*Oxy requests the option to run production casing with DQX, TORQ DQW, Wedge 425, Wedge 461, and/or Wedge 441 connections to accommodate hole conditions or drilling operations.

All Casing SF Values will meet or exceed those below			
SF Collapse	**SF Burst**	**Body SF Tension**	**Joint SF Tension**
1.125	1.2	1.4	1.4

Annular Clearance Variance Request

As per the agreement reached in the Oxy/BLM face-to-face meeting on Feb 22, 2018, Oxy requests permission to allow deviation from the 0.422" annular clearance requirement from Onshore Order #2 under the following conditions:

1. Annular clearance to meet or exceed 0.422" between intermediate casing ID and production casing coupling only on the first 500' overlap between both casings.
2. Annular clearance less than 0.422" is acceptable for the curve and lateral portions of the production open hole section.

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Does casing meet API specifications? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	Y
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
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 3rd string cement tied back 500' into previous casing?	
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2nd string set 100' to 600' below the base of salt?	
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

Section	Stage	Slurry:	Sacks	Yield (ft^3/ft)	Density (lb/gal)	Excess:	TOC	Placement	Description
Surface	1	Surface - Tail	723	1.33	14.8	100%	-	Circulate	Class C+Accel.
Int.	1	Intermediate 1S - Tail	486	1.65	13.2	5%	7,889	Circulate	Class H+Accel., Disper., Salt
Int.	2	Intermediate 2S - Tail BH	1221	1.71	13.3	25%	-	Bradenhead	Class C+Accel.
Prod.	1	Production - Tail	737	1.38	13.2	10%	11,345	Circulate	Class H+Ret., Disper., Salt

Cement Top and Liner Overlap

- Oxy is requesting permission to have minimum fill of cement behind the 5-1/2" production liner to be 100 ft into previous casing string
  - The reason for this is so that we can come back and develop shallower benches from the same 7.625" mainbore in the future
- Cement will be brought to the top of this liner hanger

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

The summarized operational sequence will be as follows:

1. Run casing as per normal operations. While running casing, conduct negative pressure test and confirm integrity of the float equipment (float collar and shoe).
2. Land casing.
3. Fill pipe with kill weight fluid, and confirm well is static.
   a. If well is not static notify BLM and kill well.
   b. Once well is static notify BLM with intent to proceed with nipple down and offline cementing.
4. Set and pressure test annular packoff.
5. After confirmation of both annular barriers and internal barriers, nipple down BOP and install cap flange. If any barrier fails to test, the BOP stack will not be nippled down until after the cement job is completed.
6. Skid rig to next well on pad.
7. Confirm well is static before removing cap flange.
8. If well is not static notify BLM and kill well prior to cementing or nippling up for further remediation.
9. Install offline cement tool.
10. Rig up cement equipment.
    a. Notify BLM prior to cement job.
11. Perform cement job.
12. Confirm well is static and floats are holding after cement job.
13. Remove cement equipment, offline cement tools and install night cap with pressure gauge for monitoring.

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.

Three string wells:

- CBL will be required on one well per pad
- 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:	Deepest TVD Depth (ft) per Section:
9.875" Hole	13-5/8"	5M	Annular	✓	70% of working pressure	11333
		5M	Blind Ram	✓	250 psi / 5000 psi	
			Pipe Ram			
			Double Ram	✓		
			Other*			
6.75" Hole	13-5/8"	5M	Annular	✓	100% of working pressure	12261
		10M	Blind Ram	✓	250 psi / 10000 psi	
			Pipe Ram			
			Double Ram	✓		
			Other*			

*Specify if additional ram is utilized

Per BLM's Memorandum No. NM-2017-008: *Decision and Rationale for a Variance Allowing the Use of a 5M Annular Preventer with a 10M BOP Stack*, Oxy requests to employ a 5M annular with a 10M BOPE stack in the pilot and lateral sections of the well and will ensure that two barriers to flow are maintained at all times. Please see attached Well Control Plan.

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.

	Formation integrity test will be performed per Onshore Order #2.	
	On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.i.	
	A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart.	
	Y	Are anchors required by manufacturer?
	A multibowl or a unionized multibowl wellhead system will be employed. The wellhead and connection to the BOPE will meet all API 6A requirements. The BOP will be tested per Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested. We will test the flange connection of the wellhead with a test port that is directly in the flange. We are proposing that we will run the wellhead through the rotary prior to cementing surface casing as discussed with the BLM on October 8, 2015. See attached schematics.	

BOP Break Testing Request

Oxy requests permission to adjust the BOP break testing requirements as per the agreement reached in the OXY/BLM meeting on September 5, 2019.

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.

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

Oxy will use Cameron ADAPT wellhead system that uses an OEC top flange connection. This connection has been fully vetted and verified by API to Spec 6A and carries an API monogram.

5. Mud Program

Section	Depth - MD		Depth - TVD		Type	Weight (ppg)	Viscosity	Water Loss
	From (ft)	To (ft)	From (ft)	To (ft)				
Surface	0	864	0	864	Water-Based Mud	8.6 - 8.8	40-60	N/C
Intermediate	864	11445	864	11333	Saturated Brine-Based or Oil-Based Mud	8.0 - 10.0	35-45	N/C
Production	11445	22414	11333	12261	Water-Based or Oil-Based Mud	9.5 - 12.5	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 of fluid?	PVT/MD Totco/Visual Monitoring

6. Logging and Testing Procedures

Logging, Coring and Testing.	
Yes	Will run GR from TD to surface (horizontal well – vertical portion of hole).
	Stated logs run will be in the Completion Report and submitted to the BLM.
No	Logs are planned based on well control or offset log information.
No	Drill stem test? If yes, explain
No	Coring? If yes, explain

Additional logs planned		Interval
No	Resistivity	
No	Density	
Yes	CBL	Production string
Yes	Mud log	Bone Spring – TD
No	PEX	

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	7970 psi
Abnormal Temperature	No
BH Temperature at deepest TVD	179°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

Hydrogen Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.	
N	H2S is present
Y	H2S Plan attached

8. Other facets of operation

	Yes/No
Will the well be drilled with a walking/skidding operation? If yes, describe. We plan to drill the 3 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.	Yes
Will more than one drilling rig be used for drilling operations? If yes, describe. 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.	Yes

Total Estimated Cuttings Volume: 1671 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	Title	Office Phone	Mobile Phone
Garrett Granier	Drilling Engineer	713-513-6633	832-265-0581
Derek Adam	Drilling Engineer Supervisor	713-366-5170	916-802-8873
Casey Martin	Drilling Superintendent	713-497-2530	337-764-4278
Kevin Threadgill	Drilling Manager	713-366-5958	361-815-0788

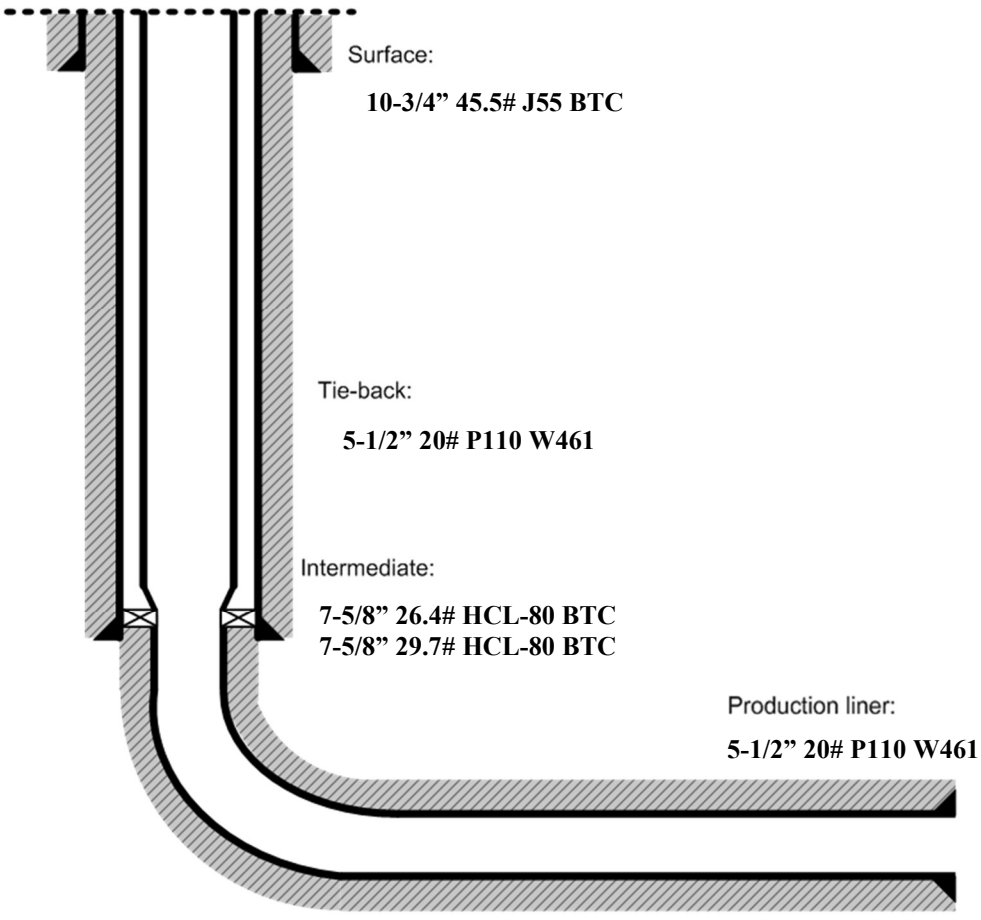
OXY USA WTP LP

Standard SL1 Tieback Details

Below is a summary that describes the general operational steps to drill and complete the well.

- Drill 14-3/4” hole x 10-3/4” casing for surface section. Cement to surface.
- Drill 9-7/8” hole x 7-5/8” casing for intermediate section. Cement to surface.
- Drill 6-3/4” hole x 5-1/2” liner for production section. Cement to top of liner, 100’ inside 7-5/8” shoe.
- Release drilling rig from location.
- Move in workover rig and run a 5-1/2” 20# P110 Wedge 461 tie-back frac string and seal assembly. Tie into liner hanger Polished Bore Receptacle (PBR) with seal assembly.
- Pump hydraulic fracture job.
- Flowback and produce well.

General well schematic:



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 204094

CONDITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 204094
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	None	4/28/2023