

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources

Form C-104
Revised August 1, 2011

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit one copy to appropriate District Office

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address OXY USA INC. P.O. BOX 50250 MIDLAND, TX 79710		² OGRID Number: 16696
		³ Reason for Filing Code/ Effective Date: RT - 05/12/2021
⁴ API Number 30 - 015-47957	⁵ Pool Name CEDAR CANYON BONE SPRING	⁶ Pool Code 11520
⁷ Property Code: 329988	⁸ Property Name: TAILS CC 10-3 FEDERAL COM	⁹ Well Number: 22H

II. 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
N	10	24S	29E		220	SOUTH	1450	WEST	EDDY

¹¹ Bottom Hole Location FTP- 269' FSL 1634' FWL LTP- 770' FNL 1642' FWL

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L 3	3	24S	29E		100	NORTH	1645	WEST	EDDY
¹² Lse Code F	¹³ Producing Method Code : F	¹⁴ Gas Connection Date: TBD	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date				

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
214754	LPC CRUDE OIL, INC.	O
151618	ENTERPRISE FIELD SERVICES LLC	G

IV. Well Completion Data

²¹ Spud Date 02/22/21	²² Ready Date 05/12/2021	²³ TD 19132'M 8762'V	²⁴ PBTD 18666'M 8755'V	²⁵ Perforations 8883-18462'	²⁶ DHC, MC
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
14-3/4"	10-3/4"	560'	605		
9-7/8"	7-5/8"	7854'	1667		
6-3/4"	5-1/2" x 4-1/2"	18670'	1356		

V. Well Test Data

³¹ Date New Oil	³² Gas Delivery Date	³³ Test Date	³⁴ Test Length	³⁵ Tbg. Pressure	³⁶ Csg. Pressure
³⁷ Choke Size	³⁸ Oil	³⁹ Water	⁴⁰ Gas		⁴¹ Test Method

⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature: 

Printed name: JANA MENDIOLA

Title: SR. REGULATORY ANALYST

E-mail Address:
Janalyn_mendiola@oxy.com

Date: 05/11/2021 Phone: 432-685-5936

OIL CONSERVATION DIVISION

Approved by: KURT SIMMONS

Title: NMOCD, SANTA FE

Approval Date: 06/10/2021

RT C-104 EXPIRES 08/12/2021

1625 N. French Dr., Hobbs, NM 88240

State of New Mexico
Energy, Minerals & Natural Resources

Form C-104

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☐ AMENDED REPORT**I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT**

¹ Operator name and Address OXY USA INC. P.O. BOX 50250 MIDLAND, TX 79710		² OGRID Number: 16696
		³ Reason for Filing Code/ Effective Date: RT - 05/12/2021
⁴ API Number 30 - 015-47957	⁵ Pool Name PIERCE CROSSING BONE SPRING EAST	⁶ Pool Code 96473
⁷ Property Code: 329988	⁸ Property Name: TAILS CC 10-3 FEDERAL COM	⁹ Well Number: 22H

II. 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
N	10	24S	29E		220	SOUTH	1450	WEST	EDDY

¹¹ Bottom Hole Location

FTP- 269' FSL 1634' FWL LTP- 770' FNL 1642' FWL

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L 3	3	24S	29E		100	NORTH	1645	WEST	EDDY

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⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature: 

Printed name: JANA MENDIOLA

Title: SR. REGULATORY ANALYST

E-mail Address:
Janalyn_mendiola@oxy.com

Date: 05/11/2021

Phone: 432-685-5936

OIL CONSERVATION DIVISION

Approved by:

KURT SIMMONS

Title:

NMOC, SANTA FE

Approval Date: 06/10/2021

RT C-104 EXPIRES 08/12/2021

1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 334-0720
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

Revised August 1, 2011
Submit one copy to appropriate
District Office

☒ AMENDED REPORT

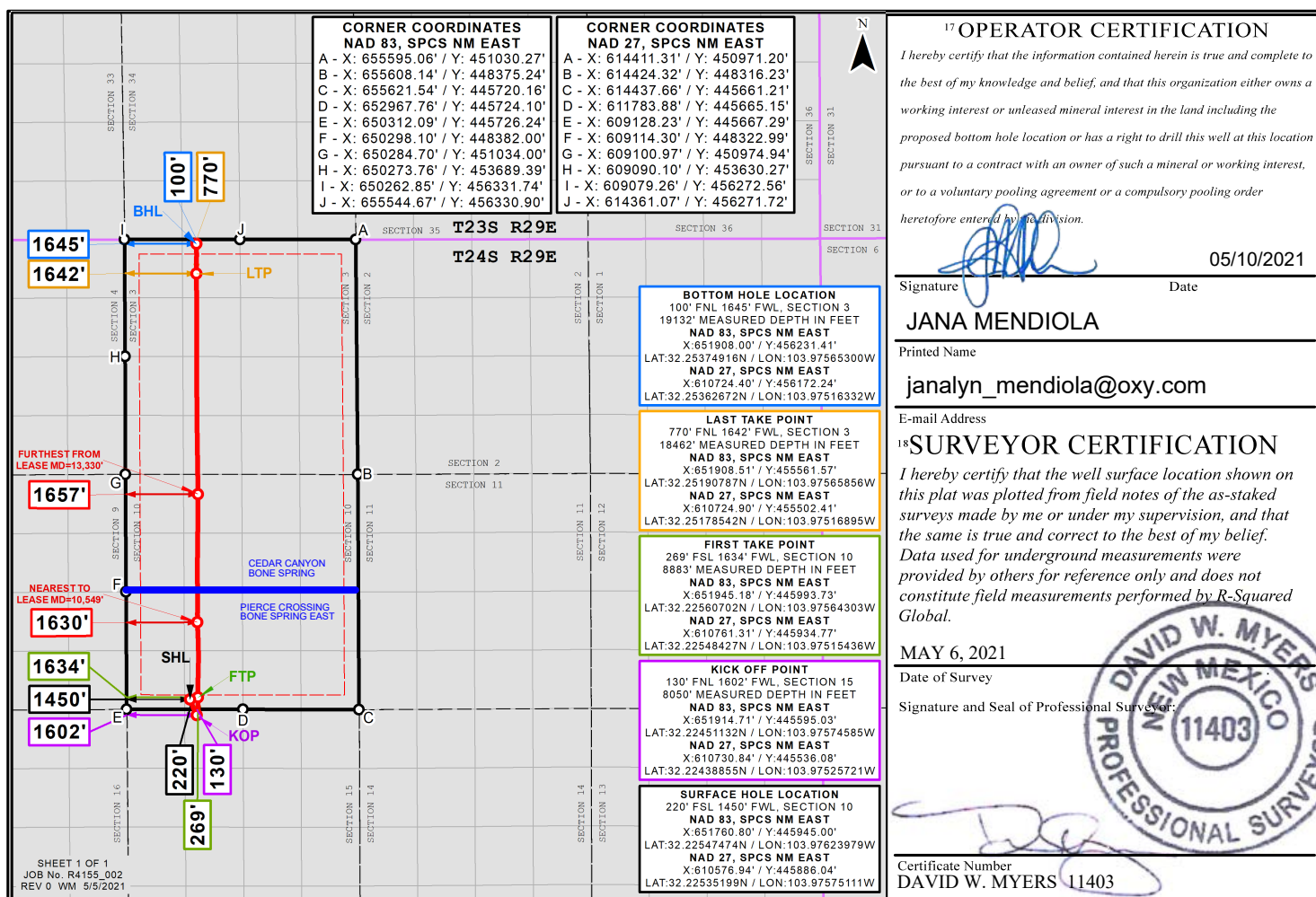
WELL LOCATION AND ACREAGE DEDICATION AS-DRILLED PLAT

¹ API Number 30-015-47957	² Pool Code 96473/11520	³ Pool Name 320 acres PIERCE CROSSING BONE SPRING EAST/CEDAR CANYON BONE SPRING
⁴ Property Code 329988	Property Name TAILS CC 10_3 FEDERAL COM	
⁷ OGRID No. 16696	⁸ Operator Name OXY USA INC	⁶ Well Number 22H
		⁹ Elevation 2939'

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
N	10	24S	29E		220	SOUTH	1450	WEST	EDDY
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
L 3	3	24S	29E		100	NORTH	1645	WEST	EDDY
¹² Dedicated Acres 1278.62	¹³ Joint or Infill Y	¹⁴ Consolidation Code		¹⁵ 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.



Distances/areas relative to NAD 83 Combined Scale Factor: 0.99978625 Convergence Angle: 00°11'10.650012"

☐ Horizontal Spacing Unit

EDDY COUNTY, NM (NAD27 NME)
TAILS CC FED COM
TAILS CC FED COM 22H

AS DRILLED

WELL DETAILS:					
			2938.80		
+N/-S	+E/-W	NORTHING	EASTING	LATITUDE	LONGITUDE
0.00	0.00	445886.10	610577.00	32.225352	-103.975751

POINTS OF INTEREST									
MD	INC	AZI	TVD	+N/-S	+E/-W	VSECT DEPARTURE	ANNOTATION		
8542.13	37.34	355.98	8476.64	-220.17	190.49	-217.35	573.05	CROSS LEASE LINE	8542.13 MD -217.35 VS
8684.53	51.68	357.87	8577.40	-120.26	184.97	-117.53	672.33	FTP 100 FSL 1663.9 FWL	8684.53 MD -117.53 VS
13932.45	89.52	358.72	8759.21	5087.85	177.77	5089.91	5880.84	CROSS SEC LINE 3D INTO 3	13932.45 MD
18932.00	89.52	358.97	8760.30	10086.45	150.80	10087.58	10879.90	LAST SIDI MWD VS	18932 MD
19132.89	89.52	358.97	8761.96	10284.30	147.24	10285.35	11077.78	LTP 100 FNL 19129.89 MD	10285.97 VS
19132.00	89.52	358.97	8761.98	10286.41	147.20	10287.46	11079.89	Y1-56173.11	X-610725.29
19132.00	89.52	358.97	8761.98	10286.41	147.20	10287.46	11079.89	ACTUAL BH: 97.8 FNL	1654.00 FWL
19132.00	89.52	358.97	8761.98	10286.41	147.20	10287.46	11079.89	32.253629° N	103.975160° W
19132.00	89.52	358.97	8761.98	10286.41	147.20	10287.46	11079.89	19132 MD 8761.98	TVD 10288.07 VS

****ALL LEASE LINE CALLS ARE ESTIMATES ONLY****

DESIGN TARGET DETAILS					
NAME	TVD	+N/-S	+E/-W	NORTHING	EASTING
FTP TAILS 22H	8640.80	-120.20	200.70	445765.90	610777.70
LTP TAILS 22H	8765.00	10284.90	152.60	456171.00	610729.60
PBHL TAILS 22H	8765.00	10365.72	152.31	456251.82	610729.31

PROJECT DETAILS: EDDY COUNTY, NM (NAD27 NME)
 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

MAP SYSTEM: US STATE PLANE 1927 (EXACT SOLUTION)
 DATUM: NAD 1927 (NADCON CONUS)
 ELLIPSOID: CLARKE 1866
 ZONE NAME: NEW MEXICO EAST 3001

LOCAL ORIGIN: WELL TAILS CC FED COM 22H, GRID NORTH

LATITUDE: 32.225352
LONGITUDE: -103.975751

GRID EAST: 610577.00
GRID NORTH: 445886.10
SCALE FACTOR: 1.000

GEOMAGNETIC MODEL: USER DEFINED

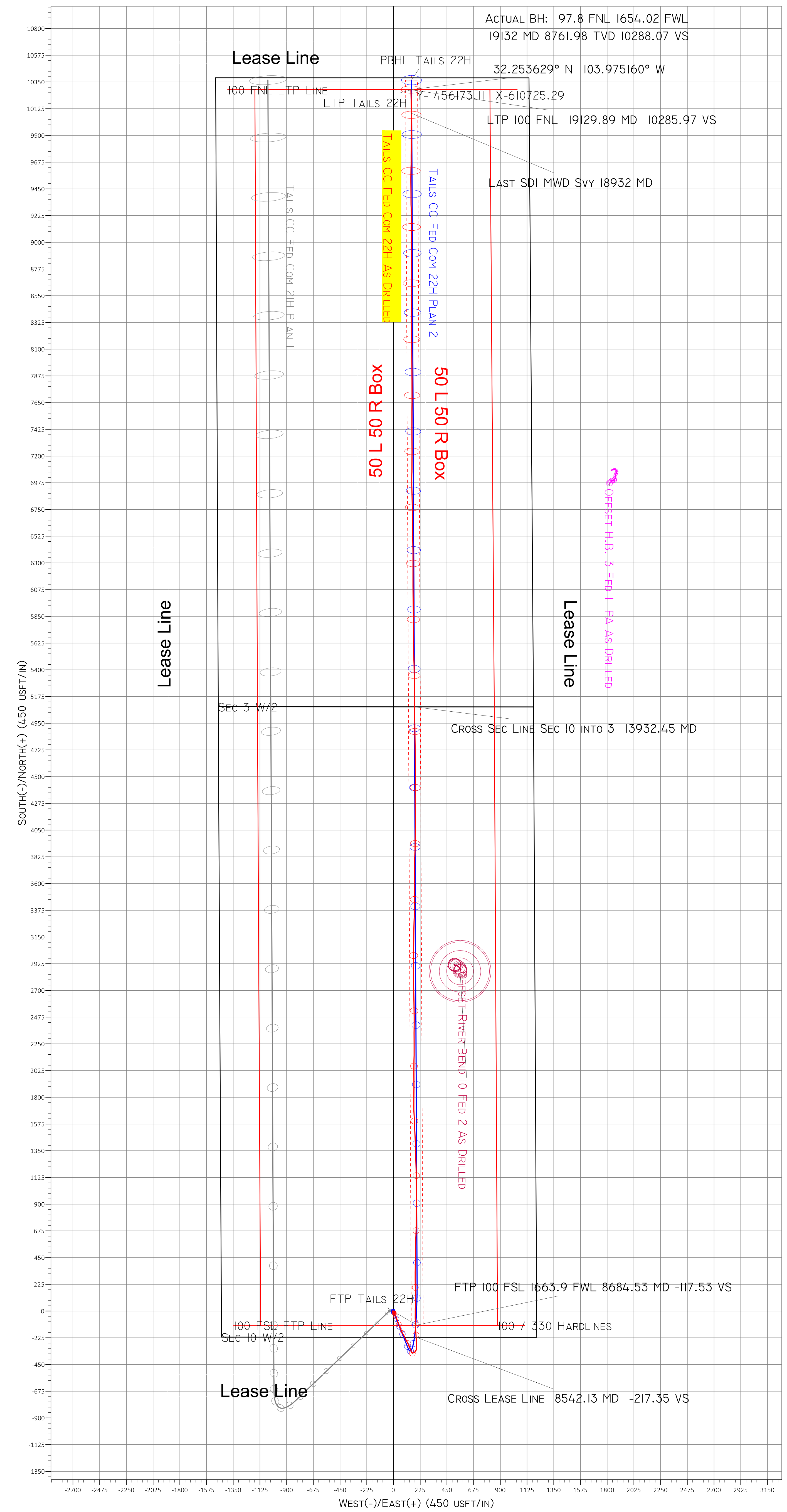
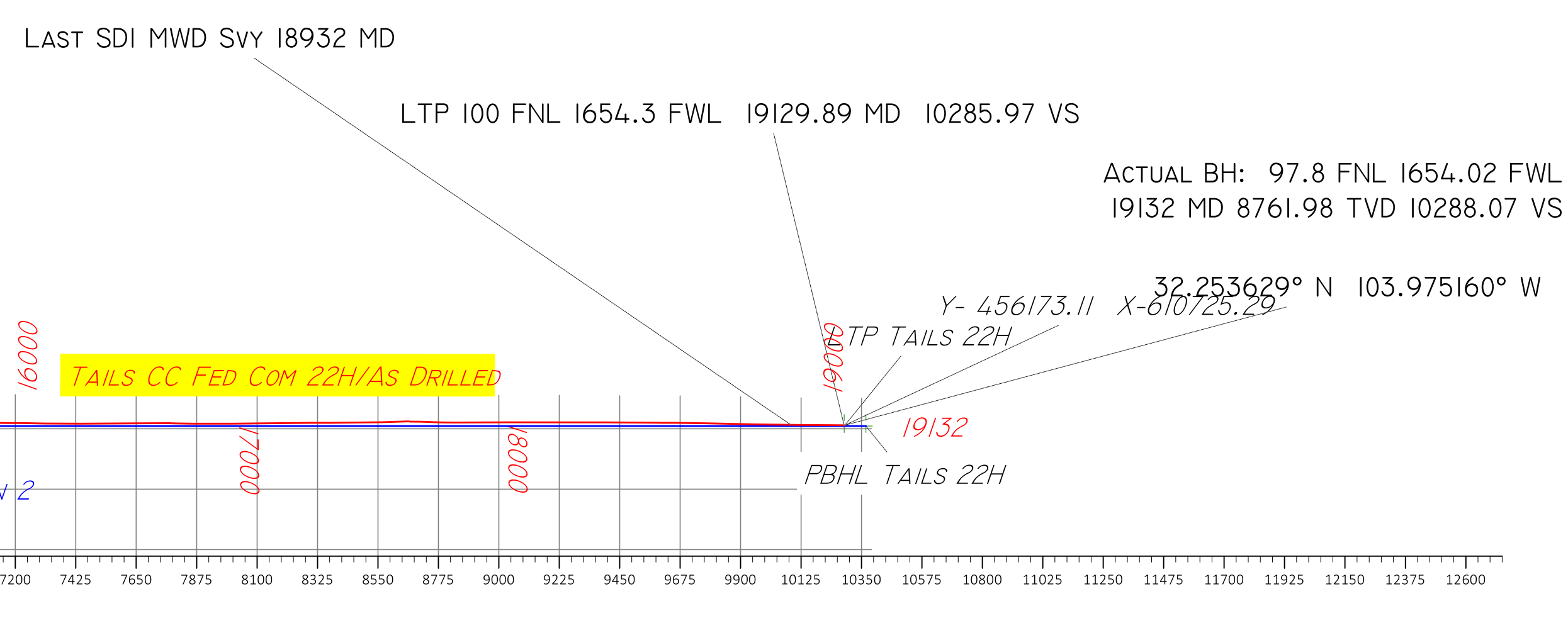
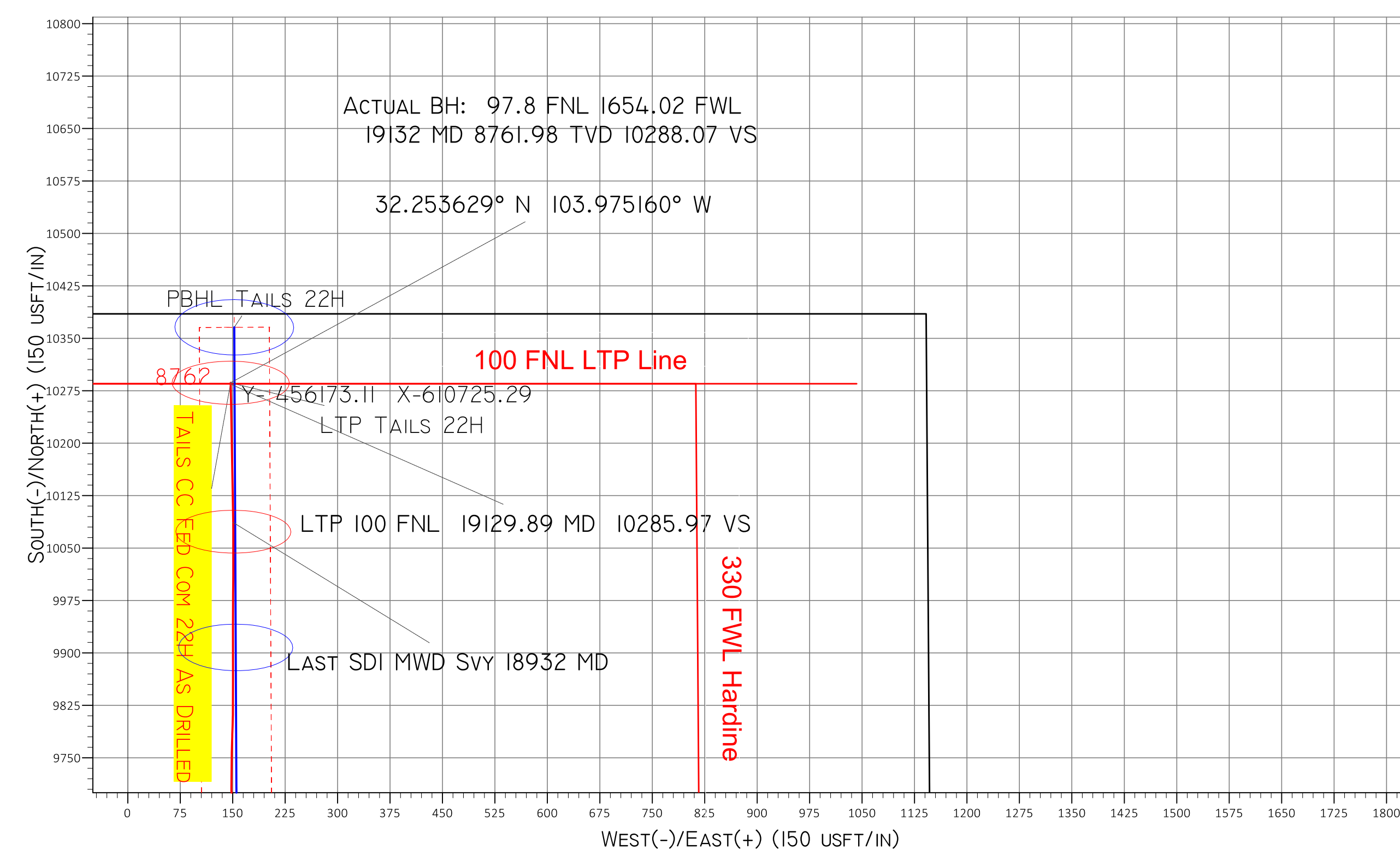
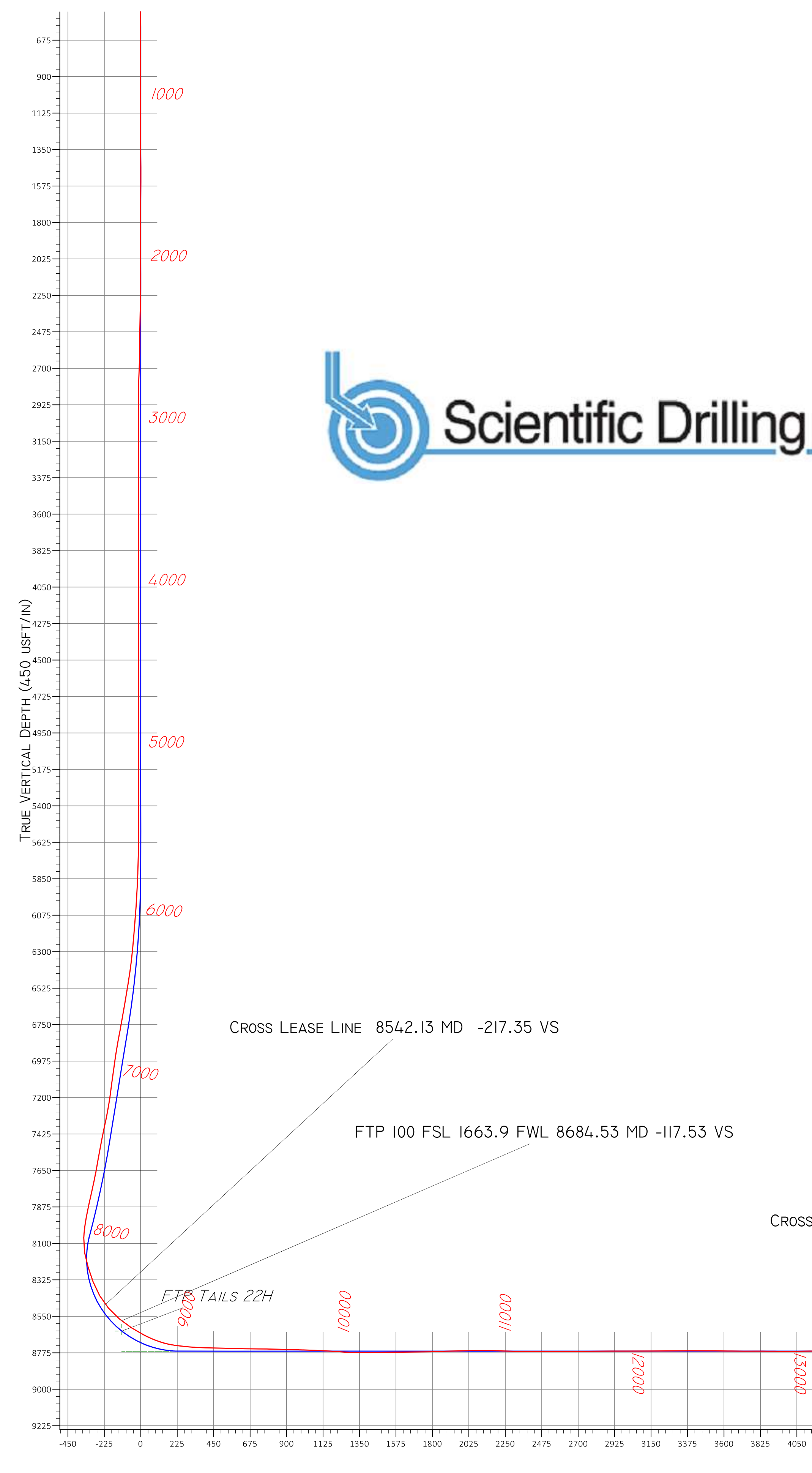
SAMPLE DATE: 14-MAR-21

MAGNETIC DECLINATION: 6.75°
DIP ANGLE FROM HORIZONTAL: 59.88°
MAGNETIC FIELD STRENGTH: 47727.20000000NT

TO CONVERT A MAGNETIC DIRECTION TO A GRID DIRECTION, ADD 6.56°
TO CONVERT A MAGNETIC DIRECTION TO A TRUE DIRECTION, ADD 6.75° EAST
TO CONVERT A TRUE DIRECTION TO A GRID DIRECTION, SUBTRACT 0.19°

GL ELEV.: 2938.80 DEPTH REF.:

PIONEER 82 2938.8 GL + 25 KB @ 2963.80USFT





OXY USA Permian

Eddy County, NM (NAD27 NME)

Tails CC Fed Com

Tails CC Fed Com 22H

OH Wellbore

Design: As Drilled

Standard Survey Report

30 March, 2021



www.scientificdrilling.com





Scientific Drilling, Intl

Survey Report

Company:	OXY USA Permian	Local Co-ordinate Reference:	Well Tails CC Fed Com 22H
Project:	Eddy County, NM (NAD27 NME)	TVD Reference:	Pioneer 82 2938.8 GL + 25 KB @ 2963.80usft
Site:	Tails CC Fed Com	MD Reference:	Pioneer 82 2938.8 GL + 25 KB @ 2963.80usft
Well:	Tails CC Fed Com 22H	North Reference:	Grid
Wellbore:	OH Wellbore	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	Midland

Project	Eddy County, NM (NAD27 NME), 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	Tails CC Fed Com		
Site Position:		Northing:	445,886.10 usft
From:	Map	Easting:	610,577.00 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32.225352
		Longitude:	-103.975751
		Grid Convergence:	0.19 °

Well	Tails CC Fed Com 22H		
Well Position	+N/-S	0.00 usft	Northing: 445,886.10 usft
	+E/-W	0.00 usft	Easting: 610,577.00 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	2,963.80 usft
		Latitude:	32.225352
		Longitude:	-103.975751
		Ground Level:	2,938.80 usft

Wellbore	OH Wellbore		
Magnetics	Model Name	Sample Date	Declination (°)
	User Defined	3/14/2021	6.75
			Dip Angle (°) 59.88
			Field Strength (nT) 47,727.20000000

Design	As Drilled		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)
	0.00	0.00	0.00
			Direction (°) 0.84

Survey Program	Date 3/30/2021		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name
93.10	461.90	Survey #1 Gyro (OH Wellbore)	GYD_GC+DROP+OH
637.00	7,800.00	Survey #3 (OH Wellbore)	MWD+IFR1+SAG+MS
7,909.00	19,132.00	Survey #4 (OH Wellbore)	MWD+IFR1+SAG+MS
			Description
			Gyrodata Stationary Tool drop on BHA on open h
			MWD + IFR1 + Sag + Multi-Station Correction
			MWD + IFR1 + Sag + Multi-Station Correction

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
93.10	0.48	273.75	93.10	0.03	-0.39	0.02	0.52	0.52	0.00
182.60	0.78	254.24	182.59	-0.12	-1.35	-0.14	0.41	0.34	-21.80
272.70	0.67	234.26	272.69	-0.59	-2.37	-0.62	0.30	-0.12	-22.18
367.10	0.39	291.96	367.08	-0.79	-3.11	-0.84	0.60	-0.30	61.12
461.90	0.30	265.66	461.88	-0.69	-3.66	-0.74	0.19	-0.09	-27.74
725.00	0.04	203.01	724.98	-0.83	-4.38	-0.89	0.11	-0.10	-23.81
815.00	0.07	280.86	814.98	-0.85	-4.45	-0.91	0.08	0.03	86.50
906.00	0.15	271.29	905.98	-0.83	-4.62	-0.90	0.09	0.09	-10.52



Scientific Drilling, Intl

Survey Report

Company:	OXY USA Permian	Local Co-ordinate Reference:	Well Tails CC Fed Com 22H
Project:	Eddy County, NM (NAD27 NME)	TVD Reference:	Pioneer 82 2938.8 GL + 25 KB @ 2963.80usft
Site:	Tails CC Fed Com	MD Reference:	Pioneer 82 2938.8 GL + 25 KB @ 2963.80usft
Well:	Tails CC Fed Com 22H	North Reference:	Grid
Wellbore:	OH Wellbore	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	Midland

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)	
998.00	0.26	233.40	997.98	-0.95	-4.91	-1.03	0.18	0.12	-41.18	
1,090.00	0.31	271.17	1,089.98	-1.07	-5.33	-1.15	0.21	0.05	41.05	
1,182.00	0.31	227.28	1,181.98	-1.24	-5.76	-1.32	0.25	0.00	-47.71	
1,274.00	0.27	244.42	1,273.98	-1.50	-6.14	-1.59	0.10	-0.04	18.63	
1,366.00	1.18	27.14	1,365.97	-0.75	-5.90	-0.84	1.53	0.99	155.13	
1,459.00	0.79	28.77	1,458.96	0.66	-5.16	0.59	0.42	-0.42	1.75	
1,551.00	0.75	156.52	1,550.95	0.67	-4.61	0.60	1.50	-0.04	138.86	
1,644.00	0.39	188.02	1,643.95	-0.20	-4.41	-0.27	0.50	-0.39	33.87	
1,738.00	0.45	96.23	1,737.95	-0.56	-4.09	-0.62	0.64	0.06	-97.65	
1,833.00	0.26	75.75	1,832.94	-0.55	-3.51	-0.60	0.24	-0.20	-21.56	
1,927.00	0.26	277.84	1,926.94	-0.47	-3.51	-0.52	0.54	0.00	-167.99	
2,022.00	0.05	246.67	2,021.94	-0.45	-3.77	-0.51	0.23	-0.22	-32.81	
2,117.00	0.17	342.03	2,116.94	-0.34	-3.85	-0.39	0.19	0.13	100.38	
2,212.00	0.67	107.35	2,211.94	-0.37	-3.36	-0.42	0.82	0.53	131.92	
2,306.00	2.39	132.72	2,305.91	-1.86	-1.40	-1.88	1.92	1.83	26.99	
2,401.00	2.40	129.81	2,400.82	-4.48	1.59	-4.45	0.13	0.01	-3.06	
2,496.00	0.30	119.73	2,495.79	-5.88	3.33	-5.83	2.22	-2.21	-10.61	
2,590.00	0.77	141.15	2,589.79	-6.49	3.94	-6.43	0.53	0.50	22.79	
2,685.00	2.51	167.02	2,684.74	-9.01	4.81	-8.94	1.95	1.83	27.23	
2,780.00	1.75	167.39	2,779.68	-12.46	5.59	-12.37	0.80	-0.80	0.39	
2,874.00	0.67	220.62	2,873.66	-14.27	5.55	-14.19	1.54	-1.15	56.63	
2,969.00	0.16	257.16	2,968.66	-14.73	5.06	-14.65	0.58	-0.54	38.46	
3,064.00	0.14	31.82	3,063.66	-14.66	4.99	-14.58	0.29	-0.02	141.75	
3,159.00	0.10	293.68	3,158.66	-14.52	4.97	-14.45	0.19	-0.04	-103.31	
3,253.00	0.07	46.55	3,252.66	-14.45	4.94	-14.38	0.15	-0.03	120.07	
3,348.00	0.16	14.15	3,347.65	-14.28	5.02	-14.21	0.11	0.09	-34.11	
3,442.00	0.04	25.54	3,441.65	-14.13	5.06	-14.05	0.13	-0.13	12.12	
3,537.00	0.13	141.55	3,536.65	-14.18	5.14	-14.10	0.16	0.09	122.12	
3,632.00	0.14	89.45	3,631.65	-14.26	5.33	-14.18	0.13	0.01	-54.84	
3,726.00	0.15	327.11	3,725.65	-14.16	5.37	-14.08	0.27	0.01	-130.15	
3,821.00	0.12	323.99	3,820.65	-13.98	5.25	-13.90	0.03	-0.03	-3.28	
3,915.00	0.16	27.80	3,914.65	-13.78	5.25	-13.70	0.16	0.04	67.88	
4,010.00	0.10	252.62	4,009.65	-13.69	5.23	-13.61	0.25	-0.06	-142.29	
4,105.00	0.12	155.57	4,104.65	-13.80	5.20	-13.72	0.17	0.02	-102.16	
4,200.00	0.23	296.95	4,199.65	-13.81	5.07	-13.73	0.35	0.12	148.82	
4,295.00	0.26	332.39	4,294.65	-13.53	4.80	-13.46	0.16	0.03	37.31	
4,389.00	0.19	315.14	4,388.65	-13.23	4.59	-13.16	0.10	-0.07	-18.35	
4,483.00	0.13	189.83	4,482.65	-13.22	4.46	-13.16	0.30	-0.06	-133.31	
4,578.00	0.04	158.19	4,577.65	-13.36	4.46	-13.29	0.10	-0.09	-33.31	
4,673.00	0.13	143.64	4,672.65	-13.48	4.53	-13.41	0.10	0.09	-15.32	
4,768.00	0.19	156.81	4,767.65	-13.71	4.66	-13.64	0.07	0.06	13.86	
4,862.00	0.13	334.98	4,861.65	-13.76	4.67	-13.69	0.34	-0.06	189.54	
4,957.00	0.16	232.12	4,956.65	-13.74	4.52	-13.67	0.24	0.03	-108.27	



Scientific Drilling, Intl

Survey Report

Company:	OXY USA Permian	Local Co-ordinate Reference:	Well Tails CC Fed Com 22H
Project:	Eddy County, NM (NAD27 NME)	TVD Reference:	Pioneer 82 2938.8 GL + 25 KB @ 2963.80usft
Site:	Tails CC Fed Com	MD Reference:	Pioneer 82 2938.8 GL + 25 KB @ 2963.80usft
Well:	Tails CC Fed Com 22H	North Reference:	Grid
Wellbore:	OH Wellbore	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	Midland

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)
5,052.00	0.23	129.18	5,051.65	-13.94	4.57	-13.87	0.32	0.07	-108.36
5,147.00	0.03	336.21	5,146.65	-14.04	4.70	-13.97	0.27	-0.21	-161.02
5,242.00	0.10	27.18	5,241.65	-13.94	4.73	-13.87	0.09	0.07	53.65
5,336.00	0.13	240.08	5,335.65	-13.92	4.68	-13.85	0.23	0.03	-156.49
5,431.00	0.04	262.60	5,430.65	-13.98	4.55	-13.91	0.10	-0.09	23.71
5,526.00	0.10	245.38	5,525.65	-14.02	4.44	-13.95	0.07	0.06	-18.13
5,621.00	0.10	332.58	5,620.65	-13.98	4.33	-13.92	0.15	0.00	91.79
5,715.00	1.94	152.36	5,714.63	-15.32	5.03	-15.24	2.17	1.96	191.26
5,810.00	1.99	158.10	5,809.58	-18.27	6.39	-18.18	0.21	0.05	6.04
5,904.00	3.16	153.58	5,903.48	-22.11	8.15	-21.99	1.26	1.24	-4.81
5,998.00	4.13	154.47	5,997.29	-27.48	10.76	-27.32	1.03	1.03	0.95
6,093.00	5.18	155.45	6,091.97	-34.47	14.02	-34.26	1.11	1.11	1.03
6,139.00	4.90	154.87	6,137.80	-38.14	15.72	-37.90	0.62	-0.61	-1.26
6,233.00	5.29	156.57	6,231.43	-45.75	19.15	-45.46	0.44	0.41	1.81
6,328.00	6.83	159.64	6,325.89	-55.06	22.85	-54.72	1.66	1.62	3.23
6,423.00	8.56	158.59	6,420.03	-66.94	27.40	-66.53	1.83	1.82	-1.11
6,518.00	10.11	158.35	6,513.77	-81.28	33.06	-80.78	1.63	1.63	-0.25
6,612.00	10.41	159.18	6,606.27	-96.88	39.12	-96.30	0.36	0.32	0.88
6,706.00	10.65	158.74	6,698.69	-112.92	45.29	-112.24	0.27	0.26	-0.47
6,801.00	11.43	158.19	6,791.93	-129.84	51.97	-129.06	0.83	0.82	-0.58
6,896.00	10.80	157.32	6,885.14	-146.79	58.90	-145.91	0.69	-0.66	-0.92
6,990.00	8.82	160.25	6,977.77	-161.70	64.73	-160.73	2.17	-2.11	3.12
7,085.00	8.09	157.04	7,071.73	-174.71	69.80	-173.66	0.91	-0.77	-3.38
7,180.00	8.78	149.62	7,165.71	-187.12	76.07	-185.98	1.36	0.73	-7.81
7,275.00	11.50	150.30	7,259.22	-201.60	84.43	-200.34	2.87	2.86	0.72
7,370.00	13.24	154.96	7,352.01	-219.69	93.73	-218.29	2.11	1.83	4.91
7,464.00	12.98	153.43	7,443.56	-238.88	103.01	-237.34	0.46	-0.28	-1.63
7,559.00	11.59	150.85	7,536.38	-256.76	112.43	-255.08	1.57	-1.46	-2.72
7,653.00	11.37	151.35	7,628.50	-273.14	121.47	-271.32	0.26	-0.23	0.53
7,748.00	13.35	156.15	7,721.30	-291.39	130.40	-289.44	2.35	2.08	5.05
7,800.00	13.88	157.82	7,771.84	-302.65	135.18	-300.64	1.27	1.02	3.21
7,909.00	12.92	159.20	7,877.87	-326.15	144.44	-324.00	0.93	-0.88	1.27
8,003.00	9.78	162.08	7,970.02	-343.58	150.63	-341.33	3.39	-3.34	3.06
8,097.00	7.79	115.61	8,063.02	-353.94	158.84	-351.57	7.60	-2.12	-49.44
8,192.00	17.27	58.06	8,155.95	-349.24	176.71	-346.60	15.37	9.98	-60.58
8,286.00	17.68	11.70	8,246.03	-327.78	191.52	-324.93	14.45	0.44	-49.32
8,381.00	20.16	0.68	8,335.92	-297.27	194.64	-294.38	4.57	2.61	-11.60
8,476.00	30.32	355.87	8,421.75	-256.87	193.10	-254.01	10.90	10.69	-5.06
8,542.13	37.34	355.98	8,476.64	-220.17	190.49	-217.35	10.62	10.62	0.16
Cross Lease Line 8542.13 MD -217.35 VS									
8,570.00	40.30	356.01	8,498.36	-202.74	189.27	-199.94	10.62	10.62	0.12
8,664.00	50.18	357.56	8,564.46	-136.19	185.61	-133.44	10.58	10.51	1.65
8,684.53	51.68	357.87	8,577.40	-120.26	184.97	-117.53	7.42	7.33	1.51
FTP 100 FSL 1663.9 FWL 8684.53 MD -117.53 VS									



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Survey Report

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Project:	Eddy County, NM (NAD27 NME)	TVD Reference:	Pioneer 82 2938.8 GL + 25 KB @ 2963.80usft
Site:	Tails CC Fed Com	MD Reference:	Pioneer 82 2938.8 GL + 25 KB @ 2963.80usft
Well:	Tails CC Fed Com 22H	North Reference:	Grid
Wellbore:	OH Wellbore	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	Midland

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)
8,759.00	57.15	358.90	8,620.72	-59.74	183.28	-57.04	7.42	7.34	1.38
8,853.00	63.08	1.67	8,667.54	21.71	183.75	24.41	6.81	6.31	2.95
8,947.00	70.56	359.71	8,704.52	108.05	184.75	110.75	8.18	7.96	-2.09
9,041.00	81.51	359.04	8,727.17	199.12	183.74	201.80	11.67	11.65	-0.71
9,135.00	84.94	359.79	8,738.26	292.45	182.79	295.10	3.73	3.65	0.80
9,230.00	88.41	1.51	8,743.77	387.26	183.87	389.92	4.08	3.65	1.81
9,334.00	88.75	0.38	8,746.34	491.22	185.58	493.89	1.13	0.33	-1.09
9,426.00	88.41	1.95	8,748.62	583.17	187.45	585.86	1.75	-0.37	1.71
9,520.00	89.32	1.68	8,750.49	677.10	190.43	679.82	1.01	0.97	-0.29
9,613.00	89.42	0.42	8,751.51	770.08	192.13	772.82	1.36	0.11	-1.35
9,705.00	88.07	0.52	8,753.52	862.05	192.89	864.79	1.47	-1.47	0.11
9,798.00	88.75	359.73	8,756.10	955.01	193.09	957.75	1.12	0.73	-0.85
9,891.00	87.67	359.95	8,759.01	1,047.97	192.83	1,050.68	1.19	-1.16	0.24
9,984.00	87.20	359.05	8,763.17	1,140.87	192.02	1,143.57	1.09	-0.51	-0.97
10,076.00	85.46	358.13	8,769.06	1,232.65	189.76	1,235.30	2.14	-1.89	-1.00
10,168.00	89.36	358.77	8,773.22	1,324.50	187.28	1,327.11	4.30	4.24	0.70
10,260.00	91.07	356.80	8,772.87	1,416.42	183.72	1,418.97	2.84	1.86	-2.14
10,352.00	90.03	358.52	8,771.99	1,508.34	179.96	1,510.82	2.18	-1.13	1.87
10,445.00	91.24	356.73	8,770.96	1,601.25	176.11	1,603.66	2.32	1.30	-1.92
10,538.00	90.30	357.68	8,769.71	1,694.13	171.58	1,696.46	1.44	-1.01	1.02
10,631.00	91.40	2.01	8,768.33	1,787.09	171.33	1,789.42	4.80	1.18	4.66
10,724.00	92.01	358.92	8,765.56	1,880.04	172.08	1,882.36	3.39	0.66	-3.32
10,816.00	91.24	0.83	8,762.95	1,971.99	171.88	1,974.31	2.24	-0.84	2.08
10,907.00	91.10	359.91	8,761.09	2,062.97	172.47	2,065.28	1.02	-0.15	-1.01
11,000.00	88.85	1.45	8,761.13	2,155.96	173.57	2,158.27	2.93	-2.42	1.66
11,094.00	87.61	358.69	8,764.04	2,249.90	173.69	2,252.21	3.22	-1.32	-2.94
11,187.00	89.42	0.73	8,766.45	2,342.86	173.22	2,345.15	2.93	1.95	2.19
11,280.00	90.50	0.93	8,766.51	2,435.85	174.56	2,438.15	1.18	1.16	0.22
11,373.00	89.86	358.03	8,766.22	2,528.83	173.72	2,531.11	3.19	-0.69	-3.12
11,464.00	89.83	359.45	8,766.47	2,619.81	171.72	2,622.05	1.56	-0.03	1.56
11,557.00	90.80	358.89	8,765.96	2,712.80	170.37	2,715.01	1.20	1.04	-0.60
11,649.00	90.10	359.37	8,765.23	2,804.78	168.97	2,806.96	0.92	-0.76	0.52
11,744.00	91.07	359.71	8,764.26	2,899.77	168.21	2,901.93	1.08	1.02	0.36
11,838.00	88.92	1.10	8,764.27	2,993.76	168.88	2,995.92	2.72	-2.29	1.48
11,933.00	90.73	0.93	8,764.56	3,088.74	170.56	3,090.91	1.91	1.91	-0.18
12,028.00	90.50	0.29	8,763.54	3,183.73	171.57	3,185.91	0.72	-0.24	-0.67
12,122.00	90.13	1.90	8,763.02	3,277.71	173.37	3,279.90	1.76	-0.39	1.71
12,216.00	90.63	1.95	8,762.40	3,371.65	176.52	3,373.88	0.53	0.53	0.05
12,310.00	89.42	0.16	8,762.36	3,465.63	178.25	3,467.88	2.30	-1.29	-1.90
12,405.00	89.56	359.47	8,763.21	3,560.63	177.95	3,562.86	0.74	0.15	-0.73
12,499.00	89.02	0.11	8,764.37	3,654.62	177.60	3,656.83	0.89	-0.57	0.68
12,592.00	90.23	0.25	8,764.98	3,747.61	177.90	3,749.82	1.31	1.30	0.15
12,687.00	89.59	2.40	8,765.13	3,842.58	180.09	3,844.81	2.36	-0.67	2.26



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Survey Report

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Project:	Eddy County, NM (NAD27 NME)	TVD Reference:	Pioneer 82 2938.8 GL + 25 KB @ 2963.80usft
Site:	Tails CC Fed Com	MD Reference:	Pioneer 82 2938.8 GL + 25 KB @ 2963.80usft
Well:	Tails CC Fed Com 22H	North Reference:	Grid
Wellbore:	OH Wellbore	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	Midland

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)
12,781.00	89.76	0.40	8,765.66	3,936.55	182.39	3,938.80	2.14	0.18	-2.13
12,876.00	90.26	0.79	8,765.65	4,031.54	183.38	4,033.80	0.67	0.53	0.41
12,970.00	91.13	0.09	8,764.51	4,125.53	184.10	4,127.79	1.19	0.93	-0.74
13,064.00	88.58	358.68	8,764.74	4,219.52	183.09	4,221.75	3.10	-2.71	-1.50
13,159.00	91.84	0.47	8,764.39	4,314.50	182.38	4,316.71	3.91	3.43	1.88
13,253.00	90.39	0.78	8,762.57	4,408.47	183.41	4,410.69	1.58	-1.54	0.33
13,347.00	90.49	359.90	8,761.84	4,502.46	183.97	4,504.68	0.94	0.11	-0.94
13,442.00	90.83	359.67	8,760.75	4,597.46	183.61	4,599.66	0.43	0.36	-0.24
13,536.00	89.42	358.89	8,760.54	4,691.45	182.43	4,693.62	1.71	-1.50	-0.83
13,630.00	90.53	359.52	8,760.59	4,785.44	181.12	4,787.58	1.36	1.18	0.67
13,725.00	89.92	359.37	8,760.21	4,880.43	180.20	4,882.55	0.66	-0.64	-0.16
13,819.00	90.96	359.86	8,759.49	4,974.42	179.57	4,976.52	1.22	1.11	0.52
13,914.00	89.52	358.50	8,759.09	5,069.41	178.21	5,071.48	2.08	-1.52	-1.43
13,932.45	89.73	358.72	8,759.21	5,087.85	177.77	5,089.91	1.66	1.14	1.21
Cross Sec Line Sec 10 into 3 13932.45 MD									
14,008.00	90.59	359.64	8,759.00	5,163.39	176.69	5,165.43	1.66	1.14	1.21
14,102.00	90.39	359.52	8,758.20	5,257.39	176.00	5,259.41	0.25	-0.21	-0.13
14,197.00	90.46	359.43	8,757.49	5,352.38	175.13	5,354.38	0.12	0.07	-0.09
14,290.00	88.31	358.18	8,758.49	5,445.35	173.19	5,447.30	2.67	-2.31	-1.34
14,385.00	89.32	358.53	8,760.46	5,540.29	170.46	5,542.19	1.13	1.06	0.37
14,478.00	90.19	0.15	8,760.85	5,633.28	169.39	5,635.16	1.98	0.94	1.74
14,573.00	90.12	359.10	8,760.60	5,728.27	168.77	5,730.13	1.11	-0.07	-1.11
14,668.00	89.38	359.46	8,761.01	5,823.26	167.58	5,825.10	0.87	-0.78	0.38
14,762.00	90.93	359.30	8,760.76	5,917.25	166.56	5,919.06	1.66	1.65	-0.17
14,857.00	90.63	358.76	8,759.46	6,012.23	164.95	6,014.01	0.65	-0.32	-0.57
14,951.00	89.82	0.19	8,759.10	6,106.22	164.09	6,107.97	1.75	-0.86	1.52
15,046.00	90.16	0.13	8,759.11	6,201.22	164.35	6,202.97	0.36	0.36	-0.06
15,140.00	89.52	359.80	8,759.37	6,295.22	164.30	6,296.96	0.77	-0.68	-0.35
15,235.00	90.36	359.84	8,759.47	6,390.22	164.00	6,391.94	0.89	0.88	0.04
15,329.00	90.76	358.70	8,758.55	6,484.21	162.80	6,485.90	1.29	0.43	-1.21
15,424.00	90.56	358.50	8,757.46	6,579.17	160.48	6,580.82	0.30	-0.21	-0.21
15,518.00	90.52	359.68	8,756.57	6,673.15	158.99	6,674.77	1.26	-0.04	1.26
15,612.00	92.50	359.71	8,754.10	6,767.12	158.49	6,768.71	2.11	2.11	0.03
15,706.00	89.75	357.87	8,752.25	6,861.06	156.50	6,862.62	3.52	-2.93	-1.96
15,800.00	88.88	359.43	8,753.38	6,955.03	154.29	6,956.54	1.90	-0.93	1.66
15,895.00	90.83	1.22	8,753.62	7,050.02	154.83	7,051.53	2.79	2.05	1.88
15,989.00	89.58	359.99	8,753.28	7,144.01	155.82	7,145.52	1.87	-1.33	-1.31
16,084.00	89.42	0.14	8,754.11	7,239.00	155.93	7,240.51	0.23	-0.17	0.16
16,178.00	89.45	359.59	8,755.04	7,333.00	155.71	7,334.49	0.59	0.03	-0.59
16,273.00	89.39	359.67	8,756.00	7,427.99	155.09	7,429.47	0.11	-0.06	0.08
16,368.00	90.42	0.16	8,756.16	7,522.99	154.95	7,524.45	1.20	1.08	0.52
16,462.00	90.63	0.91	8,755.29	7,616.98	155.83	7,618.45	0.83	0.22	0.80
16,557.00	90.63	359.85	8,754.25	7,711.97	156.46	7,713.44	1.12	0.00	-1.12
16,651.00	88.58	359.39	8,754.90	7,805.96	155.84	7,807.41	2.24	-2.18	-0.49



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Survey Report

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Project:	Eddy County, NM (NAD27 NME)	TVD Reference:	Pioneer 82 2938.8 GL + 25 KB @ 2963.80usft
Site:	Tails CC Fed Com	MD Reference:	Pioneer 82 2938.8 GL + 25 KB @ 2963.80usft
Well:	Tails CC Fed Com 22H	North Reference:	Grid
Wellbore:	OH Wellbore	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	Midland

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)
16,746.00	89.59	359.97	8,756.41	7,900.95	155.31	7,902.38	1.23	1.06	0.61
16,840.00	90.76	359.58	8,756.13	7,994.94	154.94	7,996.36	1.31	1.24	-0.41
16,934.00	90.59	359.71	8,755.02	8,088.94	154.35	8,090.33	0.23	-0.18	0.14
17,028.00	91.06	359.80	8,753.67	8,182.92	153.95	8,184.30	0.51	0.50	0.10
17,123.00	89.11	359.98	8,753.53	8,277.92	153.77	8,279.28	2.06	-2.05	0.19
17,217.00	91.97	0.34	8,752.64	8,371.90	154.03	8,373.26	3.07	3.04	0.38
17,312.00	88.75	358.31	8,752.04	8,466.88	152.91	8,468.21	4.01	-3.39	-2.14
17,406.00	93.34	359.86	8,750.33	8,560.82	151.41	8,562.12	5.15	4.88	1.65
17,501.00	89.52	1.88	8,747.96	8,655.76	152.85	8,657.07	4.55	-4.02	2.13
17,596.00	87.81	359.20	8,750.17	8,750.72	153.75	8,752.03	3.35	-1.80	-2.82
17,690.00	90.12	359.26	8,751.87	8,844.69	152.49	8,845.97	2.46	2.46	0.06
17,785.00	90.29	0.71	8,751.53	8,939.68	152.46	8,940.96	1.54	0.18	1.53
17,880.00	89.92	359.43	8,751.36	9,034.68	152.58	9,035.95	1.40	-0.39	-1.35
17,974.00	91.36	0.26	8,750.31	9,128.67	152.32	9,129.93	1.77	1.53	0.88
18,069.00	89.08	357.92	8,749.94	9,223.65	150.82	9,224.87	3.44	-2.40	-2.46
18,163.00	89.22	358.89	8,751.34	9,317.60	148.20	9,318.77	1.04	0.15	1.03
18,258.00	90.29	0.26	8,751.74	9,412.59	147.49	9,413.74	1.83	1.13	1.44
18,352.00	89.75	358.95	8,751.71	9,506.59	146.85	9,507.72	1.51	-0.57	-1.39
18,447.00	89.15	1.63	8,752.62	9,601.57	147.33	9,602.70	2.89	-0.63	2.82
18,541.00	89.78	359.60	8,753.50	9,695.56	148.34	9,696.69	2.26	0.67	-2.16
18,636.00	88.57	2.04	8,754.87	9,790.53	149.70	9,791.67	2.87	-1.27	2.57
18,730.00	88.84	358.87	8,756.99	9,884.49	150.44	9,885.63	3.38	0.29	-3.37
18,825.00	88.88	1.15	8,758.88	9,979.47	150.46	9,980.60	2.40	0.04	2.40
18,919.00	89.52	359.48	8,760.19	10,073.45	150.97	10,074.58	1.90	0.68	-1.78
18,932.00	89.52	358.97	8,760.30	10,086.45	150.80	10,087.58	3.92	0.00	-3.92
Last SDI MWD Svy 18932 MD									
19,129.89	89.52	358.97	8,761.96	10,284.30	147.24	10,285.35	0.00	0.00	0.00
LTP 100 FNL 19129.89 MD 10285.97 VS									
19,132.00	89.52	358.97	8,761.98	10,286.41	147.20	10,287.46	0.00	0.00	0.00
Actual BH: 97.8 FNL 1654.02 FWL - 19132 MD 8761.98 TVD 10288.07 VS - Y- 456173.11 X-610725.29 - 32.253629° N 103									



Scientific Drilling, Intl

Survey Report

Company:	OXY USA Permian	Local Co-ordinate Reference:	Well Tails CC Fed Com 22H
Project:	Eddy County, NM (NAD27 NME)	TVD Reference:	Pioneer 82 2938.8 GL + 25 KB @ 2963.80usft
Site:	Tails CC Fed Com	MD Reference:	Pioneer 82 2938.8 GL + 25 KB @ 2963.80usft
Well:	Tails CC Fed Com 22H	North Reference:	Grid
Wellbore:	OH Wellbore	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	Midland

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
8,542.13	8,476.64	-220.17	190.49	Cross Lease Line 8542.13 MD -217.35 VS
8,684.53	8,577.40	-120.26	184.97	FTP 100 FSL 1663.9 FWL 8684.53 MD -117.53 VS
13,932.45	8,759.21	5,087.85	177.77	Cross Sec Line Sec 10 into 3 13932.45 MD
18,932.00	8,760.30	10,086.45	150.80	Last SDI MWD Svy 18932 MD
19,129.89	8,761.96	10,284.30	147.24	LTP 100 FNL 19129.89 MD 10285.97 VS
19,132.00	8,761.98	10,286.41	147.20	Actual BH: 97.8 FNL 1654.02 FWL
19,132.00	8,761.98	10,286.41	147.20	19132 MD 8761.98 TVD 10288.07 VS
19,132.00	8,761.98	10,286.41	147.20	Y- 456173.11 X-610725.29
19,132.00	8,761.98	10,286.41	147.20	32.253629° N 103.975160° W

Checked By: _____ Approved By: _____ Date: _____



OXY USA Permian

Eddy County, NM (NAD27 NME)

Tails CC Fed Com

Tails CC Fed Com 22H

OH Wellbore

Design: As Drilled

Survey Report - Geographic

30 March, 2021



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Scientific Drilling, Intl

Survey Report - Geographic

Company:	OXY USA Permian	Local Co-ordinate Reference:	Well Tails CC Fed Com 22H
Project:	Eddy County, NM (NAD27 NME)	TVD Reference:	Pioneer 82 2938.8 GL + 25 KB @ 2963.80usft
Site:	Tails CC Fed Com	MD Reference:	Pioneer 82 2938.8 GL + 25 KB @ 2963.80usft
Well:	Tails CC Fed Com 22H	North Reference:	Grid
Wellbore:	OH Wellbore	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	Midland

Project	Eddy County, NM (NAD27 NME), 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		Tails CC Fed Com			
Site Position:		Northing:	445,886.10 usft	Latitude:	32.225352
From:	Map	Easting:	610,577.00 usft	Longitude:	-103.975751
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.19 °

Well	Tails CC Fed Com 22H					
Well Position	+N-S	0.00 usft	Northing:	445,886.10 usft	Latitude:	32.225352
	+E-W	0.00 usft	Easting:	610,577.00 usft	Longitude:	-103.975751
Position Uncertainty		0.00 usft	Wellhead Elevation:	2,963.80 usft	Ground Level:	2,938.80 usft

Wellbore	OH Wellbore				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	User Defined	3/14/2021	6.75	59.88	47,727.20000000

Design	As Drilled				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	0.84	

Survey Program	Date	3/30/2021			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
93.10	461.90	Survey #1 Gyro (OH Wellbore)	GYD_GC+DROP+OH	Gyrodata Stationary Tool drop on BHA on open h	
637.00	7,800.00	Survey #3 (OH Wellbore)	MWD+IFR1+SAG+MS	MWD + IFR1 + Sag + Multi-Station Correction	
7,909.00	19,132.00	Survey #4 (OH Wellbore)	MWD+IFR1+SAG+MS	MWD + IFR1 + Sag + Multi-Station Correction	

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
0.00	0.00	0.00	0.00	0.00	0.00	445,886.10	610,577.00	32.225352	-103.975751	
93.10	0.48	273.75	93.10	0.03	-0.39	445,886.13	610,576.61	32.225352	-103.975752	
182.60	0.78	254.24	182.59	-0.12	-1.35	445,885.98	610,575.65	32.225352	-103.975756	
272.70	0.67	234.26	272.69	-0.59	-2.37	445,885.51	610,574.64	32.225351	-103.975759	
367.10	0.39	291.96	367.08	-0.79	-3.11	445,885.31	610,573.89	32.225350	-103.975761	
461.90	0.30	265.66	461.88	-0.69	-3.66	445,885.41	610,573.34	32.225350	-103.975763	
725.00	0.04	203.01	724.98	-0.83	-4.38	445,885.27	610,572.62	32.225350	-103.975765	
815.00	0.07	280.86	814.98	-0.85	-4.45	445,885.25	610,572.55	32.225350	-103.975766	
906.00	0.15	271.29	905.98	-0.83	-4.62	445,885.27	610,572.38	32.225350	-103.975766	
998.00	0.26	233.40	997.98	-0.95	-4.91	445,885.15	610,572.09	32.225350	-103.975767	



Scientific Drilling, Intl

Survey Report - Geographic

Company:	OXY USA Permian	Local Co-ordinate Reference:	Well Tails CC Fed Com 22H
Project:	Eddy County, NM (NAD27 NME)	TVD Reference:	Pioneer 82 2938.8 GL + 25 KB @ 2963.80usft
Site:	Tails CC Fed Com	MD Reference:	Pioneer 82 2938.8 GL + 25 KB @ 2963.80usft
Well:	Tails CC Fed Com 22H	North Reference:	Grid
Wellbore:	OH Wellbore	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	Midland

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
1,090.00	0.31	271.17	1,089.98	-1.07	-5.33	445,885.03	610,571.68	32.225349	-103.975768
1,182.00	0.31	227.28	1,181.98	-1.24	-5.76	445,884.86	610,571.24	32.225349	-103.975770
1,274.00	0.27	244.42	1,273.98	-1.50	-6.14	445,884.60	610,570.87	32.225348	-103.975771
1,366.00	1.18	27.14	1,365.97	-0.75	-5.90	445,885.35	610,571.10	32.225350	-103.975770
1,459.00	0.79	28.77	1,458.96	0.66	-5.16	445,886.76	610,571.85	32.225354	-103.975768
1,551.00	0.75	156.52	1,550.95	0.67	-4.61	445,886.77	610,572.39	32.225354	-103.975766
1,644.00	0.39	188.02	1,643.95	-0.20	-4.41	445,885.90	610,572.59	32.225352	-103.975765
1,738.00	0.45	96.23	1,737.95	-0.56	-4.09	445,885.54	610,572.91	32.225351	-103.975764
1,833.00	0.26	75.75	1,832.94	-0.55	-3.51	445,885.55	610,573.49	32.225351	-103.975763
1,927.00	0.26	277.84	1,926.94	-0.47	-3.51	445,885.63	610,573.49	32.225351	-103.975763
2,022.00	0.05	246.67	2,021.94	-0.45	-3.77	445,885.65	610,573.24	32.225351	-103.975763
2,117.00	0.17	342.03	2,116.94	-0.34	-3.85	445,885.76	610,573.16	32.225351	-103.975764
2,212.00	0.67	107.35	2,211.94	-0.37	-3.36	445,885.73	610,573.64	32.225351	-103.975762
2,306.00	2.39	132.72	2,305.91	-1.86	-1.40	445,884.24	610,575.61	32.225347	-103.975756
2,401.00	2.40	129.81	2,400.82	-4.48	1.59	445,881.62	610,578.59	32.225340	-103.975746
2,496.00	0.30	119.73	2,495.79	-5.88	3.33	445,880.22	610,580.34	32.225336	-103.975740
2,590.00	0.77	141.15	2,589.79	-6.49	3.94	445,879.61	610,580.95	32.225334	-103.975738
2,685.00	2.51	167.02	2,684.74	-9.01	4.81	445,877.09	610,581.81	32.225327	-103.975736
2,780.00	1.75	167.39	2,779.68	-12.46	5.59	445,873.64	610,582.60	32.225318	-103.975733
2,874.00	0.67	220.62	2,873.66	-14.27	5.55	445,871.83	610,582.55	32.225313	-103.975733
2,969.00	0.16	257.16	2,968.66	-14.73	5.06	445,871.37	610,582.06	32.225312	-103.975735
3,064.00	0.14	31.82	3,063.66	-14.66	4.99	445,871.44	610,581.99	32.225312	-103.975735
3,159.00	0.10	293.68	3,158.66	-14.52	4.97	445,871.58	610,581.98	32.225312	-103.975735
3,253.00	0.07	46.55	3,252.66	-14.45	4.94	445,871.65	610,581.95	32.225312	-103.975735
3,348.00	0.16	14.15	3,347.65	-14.28	5.02	445,871.82	610,582.02	32.225313	-103.975735
3,442.00	0.04	25.54	3,441.65	-14.13	5.06	445,871.97	610,582.07	32.225313	-103.975735
3,537.00	0.13	141.55	3,536.65	-14.18	5.14	445,871.92	610,582.15	32.225313	-103.975735
3,632.00	0.14	89.45	3,631.65	-14.26	5.33	445,871.84	610,582.33	32.225313	-103.975734
3,726.00	0.15	327.11	3,725.65	-14.16	5.37	445,871.94	610,582.38	32.225313	-103.975734
3,821.00	0.12	323.99	3,820.65	-13.98	5.25	445,872.12	610,582.25	32.225314	-103.975734
3,915.00	0.16	27.80	3,914.65	-13.78	5.25	445,872.32	610,582.26	32.225314	-103.975734
4,010.00	0.10	252.62	4,009.65	-13.69	5.23	445,872.41	610,582.24	32.225315	-103.975734
4,105.00	0.12	155.57	4,104.65	-13.80	5.20	445,872.30	610,582.20	32.225314	-103.975735
4,200.00	0.23	296.95	4,199.65	-13.81	5.07	445,872.29	610,582.07	32.225314	-103.975735
4,295.00	0.26	332.39	4,294.65	-13.53	4.80	445,872.57	610,581.80	32.225315	-103.975736
4,389.00	0.19	315.14	4,388.65	-13.23	4.59	445,872.87	610,581.59	32.225316	-103.975736
4,483.00	0.13	189.83	4,482.65	-13.22	4.46	445,872.88	610,581.46	32.225316	-103.975737
4,578.00	0.04	158.19	4,577.65	-13.36	4.46	445,872.74	610,581.46	32.225315	-103.975737
4,673.00	0.13	143.64	4,672.65	-13.48	4.53	445,872.62	610,581.53	32.225315	-103.975737
4,768.00	0.19	156.81	4,767.65	-13.71	4.66	445,872.39	610,581.66	32.225315	-103.975736
4,862.00	0.13	334.98	4,861.65	-13.76	4.67	445,872.34	610,581.68	32.225314	-103.975736
4,957.00	0.16	232.12	4,956.65	-13.74	4.52	445,872.36	610,581.53	32.225314	-103.975737
5,052.00	0.23	129.18	5,051.65	-13.94	4.57	445,872.16	610,581.57	32.225314	-103.975737
5,147.00	0.03	336.21	5,146.65	-14.04	4.70	445,872.06	610,581.71	32.225314	-103.975736
5,242.00	0.10	27.18	5,241.65	-13.94	4.73	445,872.16	610,581.74	32.225314	-103.975736
5,336.00	0.13	240.08	5,335.65	-13.92	4.68	445,872.18	610,581.68	32.225314	-103.975736
5,431.00	0.04	262.60	5,430.65	-13.98	4.55	445,872.12	610,581.55	32.225314	-103.975737
5,526.00	0.10	245.38	5,525.65	-14.02	4.44	445,872.08	610,581.45	32.225314	-103.975737
5,621.00	0.10	332.58	5,620.65	-13.98	4.33	445,872.12	610,581.33	32.225314	-103.975737
5,715.00	1.94	152.36	5,714.63	-15.32	5.03	445,870.78	610,582.03	32.225310	-103.975735
5,810.00	1.99	158.10	5,809.58	-18.27	6.39	445,867.83	610,583.39	32.225302	-103.975731
5,904.00	3.16	153.58	5,903.48	-22.11	8.15	445,863.99	610,585.16	32.225291	-103.975725
5,998.00	4.13	154.47	5,997.29	-27.48	10.76	445,858.62	610,587.77	32.225277	-103.975717
6,093.00	5.18	155.45	6,091.97	-34.47	14.02	445,851.63	610,591.02	32.225257	-103.975706
6,139.00	4.90	154.87	6,137.80	-38.14	15.72	445,847.96	610,592.72	32.225247	-103.975701



Scientific Drilling, Intl

Survey Report - Geographic

Company:	OXY USA Permian	Local Co-ordinate Reference:	Well Tails CC Fed Com 22H
Project:	Eddy County, NM (NAD27 NME)	TVD Reference:	Pioneer 82 2938.8 GL + 25 KB @ 2963.80usft
Site:	Tails CC Fed Com	MD Reference:	Pioneer 82 2938.8 GL + 25 KB @ 2963.80usft
Well:	Tails CC Fed Com 22H	North Reference:	Grid
Wellbore:	OH Wellbore	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	Midland

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
6,233.00	5.29	156.57	6,231.43	-45.75	19.15	445,840.35	610,596.15	32.225226	-103.975690
6,328.00	6.83	159.64	6,325.89	-55.06	22.85	445,831.04	610,599.86	32.225201	-103.975678
6,423.00	8.56	158.59	6,420.03	-66.94	27.40	445,819.16	610,604.40	32.225168	-103.975663
6,518.00	10.11	158.35	6,513.77	-81.28	33.06	445,804.82	610,610.06	32.225129	-103.975645
6,612.00	10.41	159.18	6,606.27	-96.88	39.12	445,789.22	610,616.12	32.225086	-103.975626
6,706.00	10.65	158.74	6,698.69	-112.92	45.29	445,773.18	610,622.29	32.225041	-103.975606
6,801.00	11.43	158.19	6,791.93	-129.84	51.97	445,756.26	610,628.97	32.224995	-103.975585
6,896.00	10.80	157.32	6,885.14	-146.79	58.90	445,739.31	610,635.90	32.224948	-103.975562
6,990.00	8.82	160.25	6,977.77	-161.70	64.73	445,724.40	610,641.73	32.224907	-103.975544
7,085.00	8.09	157.04	7,071.73	-174.71	69.80	445,711.39	610,646.80	32.224871	-103.975527
7,180.00	8.78	149.62	7,165.71	-187.12	76.07	445,698.98	610,653.07	32.224837	-103.975507
7,275.00	11.50	150.30	7,259.22	-201.60	84.43	445,684.50	610,661.44	32.224797	-103.975480
7,370.00	13.24	154.96	7,352.01	-219.69	93.73	445,666.41	610,670.73	32.224747	-103.975450
7,464.00	12.98	153.43	7,443.56	-238.88	103.01	445,647.22	610,680.01	32.224695	-103.975421
7,559.00	11.59	150.85	7,536.38	-256.76	112.43	445,629.34	610,689.43	32.224645	-103.975390
7,653.00	11.37	151.35	7,628.50	-273.14	121.47	445,612.96	610,698.47	32.224600	-103.975361
7,748.00	13.35	156.15	7,721.30	-291.39	130.40	445,594.71	610,707.40	32.224550	-103.975333
7,800.00	13.88	157.82	7,771.84	-302.65	135.18	445,583.45	610,712.18	32.224519	-103.975317
7,909.00	12.92	159.20	7,877.87	-326.15	144.44	445,559.95	610,721.44	32.224454	-103.975288
8,003.00	9.78	162.08	7,970.02	-343.58	150.63	445,542.52	610,727.63	32.224406	-103.975268
8,097.00	7.79	115.61	8,063.02	-353.94	158.84	445,532.16	610,735.85	32.224378	-103.975241
8,192.00	17.27	58.06	8,155.95	-349.24	176.71	445,536.86	610,753.72	32.224391	-103.975183
8,286.00	17.68	11.70	8,246.03	-327.78	191.52	445,558.32	610,768.52	32.224449	-103.975135
8,381.00	20.16	0.68	8,335.92	-297.27	194.64	445,588.83	610,771.64	32.224533	-103.975125
8,476.00	30.32	355.87	8,421.75	-256.87	193.10	445,629.23	610,770.10	32.224644	-103.975130
8,542.13	37.34	355.98	8,476.64	-220.17	190.49	445,665.93	610,767.49	32.224745	-103.975138
Cross Lease Line 8542.13 MD -217.35 VS									
8,570.00	40.30	356.01	8,498.36	-202.74	189.27	445,683.36	610,766.27	32.224793	-103.975141
8,664.00	50.18	357.56	8,564.46	-136.19	185.61	445,749.91	610,762.61	32.224976	-103.975152
8,684.53	51.68	357.87	8,577.40	-120.26	184.97	445,765.84	610,761.97	32.225020	-103.975154
FTP 100 FSL 1663.9 FWL 8684.53 MD -117.53 VS									
8,759.00	57.15	358.90	8,620.72	-59.74	183.28	445,826.36	610,760.29	32.225186	-103.975159
8,853.00	63.08	1.67	8,667.54	21.71	183.75	445,907.81	610,760.75	32.225410	-103.975157
8,947.00	70.56	359.71	8,704.52	108.05	184.75	445,994.15	610,761.75	32.225648	-103.975153
9,041.00	81.51	359.04	8,727.17	199.12	183.74	446,085.22	610,760.74	32.225898	-103.975155
9,135.00	84.94	359.79	8,738.26	292.45	182.79	446,178.55	610,759.79	32.226154	-103.975157
9,230.00	88.41	1.51	8,743.77	387.26	183.87	446,273.36	610,760.87	32.226415	-103.975152
9,334.00	88.75	0.38	8,746.34	491.22	185.58	446,377.32	610,762.59	32.226701	-103.975146
9,426.00	88.41	1.95	8,748.62	583.17	187.45	446,469.27	610,764.46	32.226954	-103.975139
9,520.00	89.32	1.68	8,750.49	677.10	190.43	446,563.20	610,767.43	32.227212	-103.975128
9,613.00	89.42	0.42	8,751.51	770.08	192.13	446,656.18	610,769.14	32.227467	-103.975122
9,705.00	88.07	0.52	8,753.52	862.05	192.89	446,748.15	610,769.89	32.227720	-103.975118
9,798.00	88.75	359.73	8,756.10	955.01	193.09	446,841.11	610,770.09	32.227976	-103.975116
9,891.00	87.67	359.95	8,759.01	1,047.97	192.83	446,934.06	610,769.83	32.228231	-103.975116
9,984.00	87.20	359.05	8,763.17	1,140.87	192.02	447,026.97	610,769.02	32.228487	-103.975118
10,076.00	85.46	358.13	8,769.06	1,232.65	189.76	447,118.75	610,766.76	32.228739	-103.975124
10,168.00	89.36	358.77	8,773.22	1,324.50	187.28	447,210.60	610,764.28	32.228991	-103.975131
10,260.00	91.07	356.80	8,772.87	1,416.42	183.72	447,302.52	610,760.72	32.229244	-103.975142
10,352.00	90.03	358.52	8,771.99	1,508.34	179.96	447,394.44	610,756.97	32.229497	-103.975153
10,445.00	91.24	356.73	8,770.96	1,601.25	176.11	447,487.35	610,753.12	32.229752	-103.975164
10,538.00	90.30	357.68	8,769.71	1,694.13	171.58	447,580.23	610,748.58	32.230008	-103.975178
10,631.00	91.40	2.01	8,768.33	1,787.09	171.33	447,673.19	610,748.33	32.230263	-103.975178
10,724.00	92.01	358.92	8,765.56	1,880.04	172.08	447,766.14	610,749.08	32.230519	-103.975174
10,816.00	91.24	0.83	8,762.95	1,971.99	171.88	447,858.09	610,748.88	32.230772	-103.975174
10,907.00	91.10	359.91	8,761.09	2,062.97	172.47	447,949.07	610,749.47	32.231022	-103.975171



Scientific Drilling, Intl

Survey Report - Geographic

Company:	OXY USA Permian	Local Co-ordinate Reference:	Well Tails CC Fed Com 22H
Project:	Eddy County, NM (NAD27 NME)	TVD Reference:	Pioneer 82 2938.8 GL + 25 KB @ 2963.80usft
Site:	Tails CC Fed Com	MD Reference:	Pioneer 82 2938.8 GL + 25 KB @ 2963.80usft
Well:	Tails CC Fed Com 22H	North Reference:	Grid
Wellbore:	OH Wellbore	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	Midland

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
11,000.00	88.85	1.45	8,761.13	2,155.96	173.57	448,042.06	610,750.57	32.231277	-103.975167
11,094.00	87.61	358.69	8,764.04	2,249.90	173.69	448,136.00	610,750.69	32.231535	-103.975165
11,187.00	89.42	0.73	8,766.45	2,342.86	173.22	448,228.96	610,750.22	32.231791	-103.975166
11,280.00	90.50	0.93	8,766.51	2,435.85	174.56	448,321.95	610,751.57	32.232047	-103.975160
11,373.00	89.86	358.03	8,766.22	2,528.83	173.72	448,414.93	610,750.72	32.232302	-103.975162
11,464.00	89.83	359.45	8,766.47	2,619.81	171.72	448,505.91	610,748.72	32.232552	-103.975168
11,557.00	90.80	358.89	8,765.96	2,712.80	170.37	448,598.90	610,747.38	32.232808	-103.975171
11,649.00	90.10	359.37	8,765.23	2,804.78	168.97	448,690.88	610,745.98	32.233061	-103.975175
11,744.00	91.07	359.71	8,764.26	2,899.77	168.21	448,785.87	610,745.22	32.233322	-103.975176
11,838.00	88.92	1.10	8,764.27	2,993.76	168.88	448,879.86	610,745.88	32.233580	-103.975173
11,933.00	90.73	0.93	8,764.56	3,088.74	170.56	448,974.84	610,747.56	32.233841	-103.975166
12,028.00	90.50	0.29	8,763.54	3,183.73	171.57	449,069.83	610,748.57	32.234103	-103.975162
12,122.00	90.13	1.90	8,763.02	3,277.71	173.37	449,163.81	610,750.37	32.234361	-103.975155
12,216.00	90.63	1.95	8,762.40	3,371.65	176.52	449,257.75	610,753.53	32.234619	-103.975144
12,310.00	89.42	0.16	8,762.36	3,465.63	178.25	449,351.73	610,755.26	32.234877	-103.975137
12,405.00	89.56	359.47	8,763.21	3,560.63	177.95	449,446.73	610,754.95	32.235139	-103.975137
12,499.00	89.02	0.11	8,764.37	3,654.62	177.60	449,540.72	610,754.61	32.235397	-103.975137
12,592.00	90.23	0.25	8,764.98	3,747.61	177.90	449,633.71	610,754.90	32.235653	-103.975135
12,687.00	89.59	2.40	8,765.13	3,842.58	180.09	449,728.68	610,757.10	32.235914	-103.975127
12,781.00	89.76	0.40	8,765.66	3,936.55	182.39	449,822.65	610,759.39	32.236172	-103.975119
12,876.00	90.26	0.79	8,765.65	4,031.54	183.38	449,917.64	610,760.38	32.236433	-103.975115
12,970.00	91.13	0.09	8,764.51	4,125.53	184.10	450,011.63	610,761.10	32.236691	-103.975111
13,064.00	88.58	358.68	8,764.74	4,219.52	183.09	450,105.62	610,760.09	32.236950	-103.975114
13,159.00	91.84	0.47	8,764.39	4,314.50	182.38	450,200.60	610,759.39	32.237211	-103.975115
13,253.00	90.39	0.78	8,762.57	4,408.47	183.41	450,294.57	610,760.41	32.237469	-103.975111
13,347.00	90.49	359.90	8,761.84	4,502.46	183.97	450,388.56	610,760.97	32.237728	-103.975108
13,442.00	90.83	359.67	8,760.75	4,597.46	183.61	450,483.56	610,760.61	32.237989	-103.975108
13,536.00	89.42	358.89	8,760.54	4,691.45	182.43	450,577.55	610,759.43	32.238247	-103.975111
13,630.00	90.53	359.52	8,760.59	4,785.44	181.12	450,671.54	610,758.13	32.238505	-103.975114
13,725.00	89.92	359.37	8,760.21	4,880.43	180.20	450,766.53	610,757.21	32.238767	-103.975116
13,819.00	90.96	359.86	8,759.49	4,974.42	179.57	450,860.52	610,756.58	32.239025	-103.975117
13,914.00	89.52	358.50	8,759.09	5,069.41	178.21	450,955.51	610,755.22	32.239286	-103.975120
13,932.45	89.73	358.72	8,759.21	5,087.85	177.77	450,973.95	610,754.77	32.239337	-103.975121
Cross Sec Line Sec 10 into 3 13932.45 MD									
14,008.00	90.59	359.64	8,759.00	5,163.39	176.69	451,049.49	610,753.69	32.239544	-103.975124
14,102.00	90.39	359.52	8,758.20	5,257.39	176.00	451,143.49	610,753.00	32.239803	-103.975125
14,197.00	90.46	359.43	8,757.49	5,352.38	175.13	451,238.48	610,752.13	32.240064	-103.975127
14,290.00	88.31	358.18	8,758.49	5,445.35	173.19	451,331.45	610,750.19	32.240320	-103.975132
14,385.00	89.32	358.53	8,760.46	5,540.29	170.46	451,426.39	610,747.47	32.240581	-103.975140
14,478.00	90.19	0.15	8,760.85	5,633.28	169.39	451,519.38	610,746.40	32.240836	-103.975143
14,573.00	90.12	359.10	8,760.60	5,728.27	168.77	451,614.37	610,745.77	32.241097	-103.975144
14,668.00	89.38	359.46	8,761.01	5,823.26	167.58	451,709.36	610,744.58	32.241358	-103.975146
14,762.00	90.93	359.30	8,760.76	5,917.25	166.56	451,803.35	610,743.56	32.241617	-103.975149
14,857.00	90.63	358.76	8,759.46	6,012.23	164.95	451,898.33	610,741.95	32.241878	-103.975153
14,951.00	89.82	0.19	8,759.10	6,106.22	164.09	451,992.32	610,741.09	32.242136	-103.975155
15,046.00	90.16	0.13	8,759.11	6,201.22	164.35	452,087.32	610,741.36	32.242398	-103.975153
15,140.00	89.52	359.80	8,759.37	6,295.22	164.30	452,181.32	610,741.30	32.242656	-103.975152
15,235.00	90.36	359.84	8,759.47	6,390.22	164.00	452,276.32	610,741.00	32.242917	-103.975152
15,329.00	90.76	358.70	8,758.55	6,484.21	162.80	452,370.31	610,739.81	32.243175	-103.975155
15,424.00	90.56	358.50	8,757.46	6,579.17	160.48	452,465.27	610,737.48	32.243436	-103.975161
15,518.00	90.52	359.68	8,756.57	6,673.15	158.99	452,559.25	610,735.99	32.243695	-103.975165
15,612.00	92.50	359.71	8,754.10	6,767.12	158.49	452,653.22	610,735.49	32.243953	-103.975166
15,706.00	89.75	357.87	8,752.25	6,861.06	156.50	452,747.16	610,733.51	32.244211	-103.975171
15,800.00	88.88	359.43	8,753.38	6,955.03	154.29	452,841.13	610,731.29	32.244470	-103.975177
15,895.00	90.83	1.22	8,753.62	7,050.02	154.83	452,936.12	610,731.83	32.244731	-103.975174



Scientific Drilling, Intl

Survey Report - Geographic

Company:	OXY USA Permian	Local Co-ordinate Reference:	Well Tails CC Fed Com 22H
Project:	Eddy County, NM (NAD27 NME)	TVD Reference:	Pioneer 82 2938.8 GL + 25 KB @ 2963.80usft
Site:	Tails CC Fed Com	MD Reference:	Pioneer 82 2938.8 GL + 25 KB @ 2963.80usft
Well:	Tails CC Fed Com 22H	North Reference:	Grid
Wellbore:	OH Wellbore	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	Midland

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
15,989.00	89.58	359.99	8,753.28	7,144.01	155.82	453,030.11	610,732.82	32.244989	-103.975170
16,084.00	89.42	0.14	8,754.11	7,239.00	155.93	453,125.10	610,732.93	32.245250	-103.975169
16,178.00	89.45	359.59	8,755.04	7,333.00	155.71	453,219.10	610,732.71	32.245509	-103.975169
16,273.00	89.39	359.67	8,756.00	7,427.99	155.09	453,314.09	610,732.10	32.245770	-103.975170
16,368.00	90.42	0.16	8,756.16	7,522.99	154.95	453,409.09	610,731.96	32.246031	-103.975169
16,462.00	90.63	0.91	8,755.29	7,616.98	155.83	453,503.08	610,732.83	32.246289	-103.975165
16,557.00	90.63	359.85	8,754.25	7,711.97	156.46	453,598.07	610,733.46	32.246551	-103.975162
16,651.00	88.58	359.39	8,754.90	7,805.96	155.84	453,692.06	610,732.84	32.246809	-103.975163
16,746.00	89.59	359.97	8,756.41	7,900.95	155.31	453,787.05	610,732.31	32.247070	-103.975164
16,840.00	90.76	359.58	8,756.13	7,994.94	154.94	453,881.04	610,731.94	32.247328	-103.975164
16,934.00	90.59	359.71	8,755.02	8,088.94	154.35	453,975.03	610,731.36	32.247587	-103.975165
17,028.00	91.06	359.80	8,753.67	8,182.92	153.95	454,069.02	610,730.96	32.247845	-103.975165
17,123.00	89.11	359.98	8,753.53	8,277.92	153.77	454,164.02	610,730.77	32.248106	-103.975165
17,217.00	91.97	0.34	8,752.64	8,371.90	154.03	454,258.00	610,731.04	32.248365	-103.975163
17,312.00	88.75	358.31	8,752.04	8,466.88	152.91	454,352.98	610,729.92	32.248626	-103.975165
17,406.00	93.34	359.86	8,750.33	8,560.82	151.41	454,446.92	610,728.42	32.248884	-103.975169
17,501.00	89.52	1.88	8,747.96	8,655.76	152.85	454,541.86	610,729.86	32.249145	-103.975164
17,596.00	87.81	359.20	8,750.17	8,750.72	153.75	454,636.82	610,730.75	32.249406	-103.975160
17,690.00	90.12	359.26	8,751.87	8,844.69	152.49	454,730.79	610,729.49	32.249664	-103.975163
17,785.00	90.29	0.71	8,751.53	8,939.68	152.46	454,825.78	610,729.47	32.249925	-103.975162
17,880.00	89.92	359.43	8,751.36	9,034.68	152.58	454,920.78	610,729.58	32.250187	-103.975160
17,974.00	91.36	0.26	8,750.31	9,128.67	152.32	455,014.77	610,729.33	32.250445	-103.975160
18,069.00	89.08	357.92	8,749.94	9,223.65	150.82	455,109.75	610,727.82	32.250706	-103.975164
18,163.00	89.22	358.89	8,751.34	9,317.60	148.20	455,203.70	610,725.20	32.250964	-103.975171
18,258.00	90.29	0.26	8,751.74	9,412.59	147.49	455,298.69	610,724.50	32.251225	-103.975173
18,352.00	89.75	358.95	8,751.71	9,506.59	146.85	455,392.69	610,723.85	32.251484	-103.975174
18,447.00	89.15	1.63	8,752.62	9,601.57	147.33	455,487.67	610,724.33	32.251745	-103.975171
18,541.00	89.78	359.60	8,753.50	9,695.56	148.34	455,581.66	610,725.34	32.252003	-103.975167
18,636.00	88.57	2.04	8,754.87	9,790.53	149.70	455,676.63	610,726.70	32.252264	-103.975162
18,730.00	88.84	358.87	8,756.99	9,884.49	150.44	455,770.59	610,727.44	32.252523	-103.975158
18,825.00	88.88	1.15	8,758.88	9,979.47	150.46	455,865.57	610,727.46	32.252784	-103.975157
18,919.00	89.52	359.48	8,760.19	10,073.45	150.97	455,959.55	610,727.98	32.253042	-103.975154
18,932.00	89.52	358.97	8,760.30	10,086.45	150.80	455,972.55	610,727.80	32.253078	-103.975155
Last SDI MWD Svy 18932 MD									
19,129.89	89.52	358.97	8,761.96	10,284.30	147.24	456,170.40	610,724.25	32.253622	-103.975164
LTP 100 FNL 19129.89 MD 10285.97 VS									
19,132.00	89.52	358.97	8,761.98	10,286.41	147.20	456,172.51	610,724.21	32.253628	-103.975164
Actual BH: 97.8 FNL 1654.02 FWL - 19132 MD 8761.98 TVD 10288.07 VS - Y- 456173.11 X-610725.29 - 32.253629° N 103									



Scientific Drilling, Intl

Survey Report - Geographic

Company:	OXY USA Permian	Local Co-ordinate Reference:	Well Tails CC Fed Com 22H
Project:	Eddy County, NM (NAD27 NME)	TVD Reference:	Pioneer 82 2938.8 GL + 25 KB @ 2963.80usft
Site:	Tails CC Fed Com	MD Reference:	Pioneer 82 2938.8 GL + 25 KB @ 2963.80usft
Well:	Tails CC Fed Com 22H	North Reference:	Grid
Wellbore:	OH Wellbore	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	Midland

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
8,542.13	8,476.64	-220.17	190.49	Cross Lease Line 8542.13 MD -217.35 VS
8,684.53	8,577.40	-120.26	184.97	FTP 100 FSL 1663.9 FWL 8684.53 MD -117.53 VS
13,932.45	8,759.21	5,087.85	177.77	Cross Sec Line Sec 10 into 3 13932.45 MD
18,932.00	8,760.30	10,086.45	150.80	Last SDI MWD Svy 18932 MD
19,129.89	8,761.96	10,284.30	147.24	LTP 100 FNL 19129.89 MD 10285.97 VS
19,132.00	8,761.98	10,286.41	147.20	Actual BH: 97.8 FNL 1654.02 FWL
19,132.00	8,761.98	10,286.41	147.20	19132 MD 8761.98 TVD 10288.07 VS
19,132.00	8,761.98	10,286.41	147.20	Y- 456173.11 X-610725.29
19,132.00	8,761.98	10,286.41	147.20	32.253629° N 103.975160° W

Checked By: _____ Approved By: _____ Date: _____

Intent ☐ As Drilled ☐

API #		
Operator Name:	Property Name:	Well Number

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude			NAD	

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude			NAD	

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude			NAD	

Is this well the defining well for the Horizontal Spacing Unit? ☐Is this well an infill well? ☐

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #		
Operator Name:	Property Name:	Well Number

KZ 06/29/2018

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

ACKNOWLEDGMENTS

Action 27856

ACKNOWLEDGMENTS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 27856
	Action Type: [C-104] Completion Packet (C-104C)

ACKNOWLEDGMENTS

☐	I hereby certify that the required Water Use Report has been, or will be, submitted for this wells completion.
☐	I hereby certify that the required FracFocus disclosure has been, or will be, submitted for this wells completion.

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 27856

CONDITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 27856
	Action Type: [C-104] Completion Packet (C-104C)

CONDITIONS

Created By	Condition	Condition Date
ksimmons	RT C-104 EXPIRES 08/12/2021; SUBMIT COMPLETION REPORT AND SUNDRY AS AVAILABLE.	6/10/2021