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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
(As-Drilled)

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-44161	Pool Code 51687	Pool Name Red Tank; Bone Spring, East
Property Code 319659	Property Name RED TANK "30-31" STATE Com	Well Number 24Y
OGRID No. 16696	Operator Name OXY USA INC.	Elevation 3660.1'

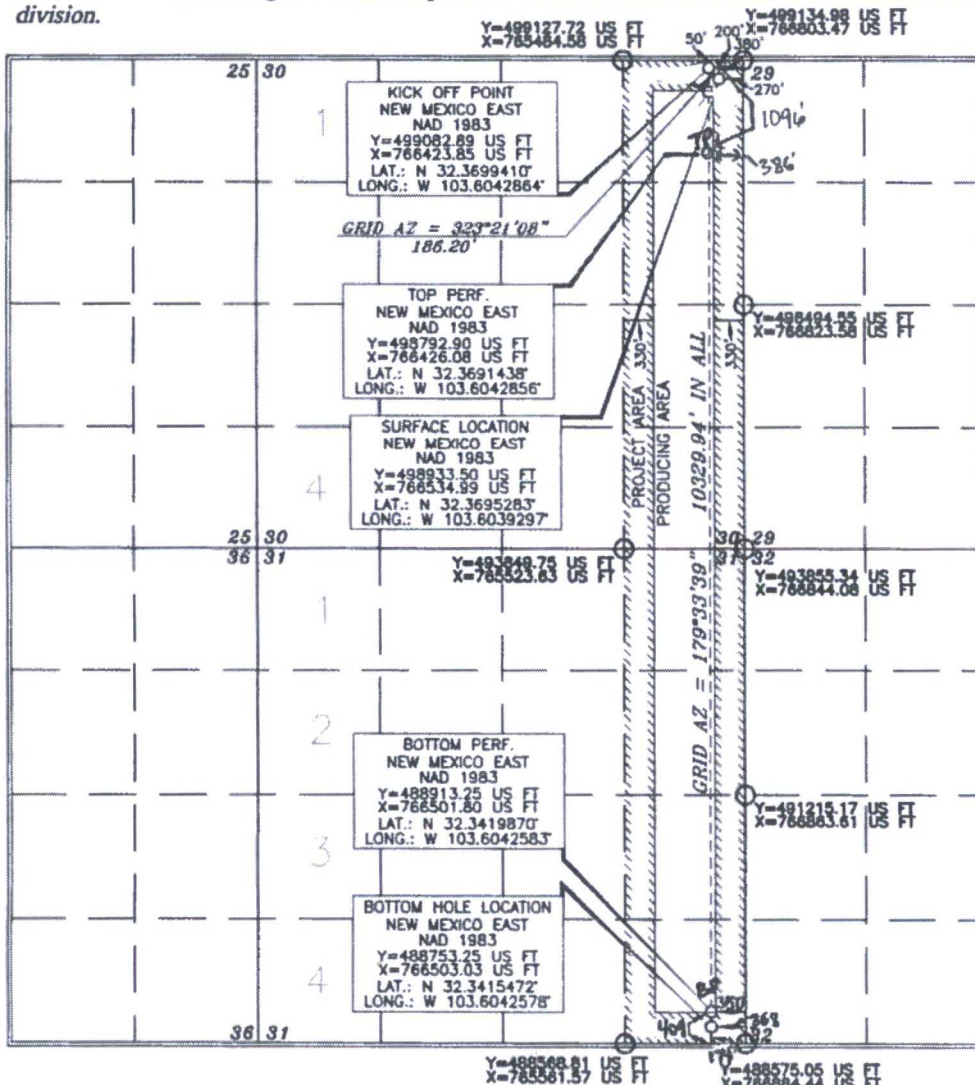
Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	30	22 SOUTH	33 EAST, N.M.P.M.		200'	NORTH	270'	EAST	LEA

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
P	31	22 SOUTH	33 EAST, N.M.P.M.		100' 179'	SOUTH	800' 368'	EAST	LEA
Dedicated Acres 320	Joint or Infill Y	Consolidation Code	Order No.	BP- 409 FSL 350 FEL TP- 1096 FNL 386 FEL					

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.



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.

[Signature] 1/16/18
Jana Mendiola
jaramendiola@oxy.com

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from the findings of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

[Signature]
Date of Survey
Professional Land Surveyor

[Signature] 10/30/2017
Certificate Number 15079

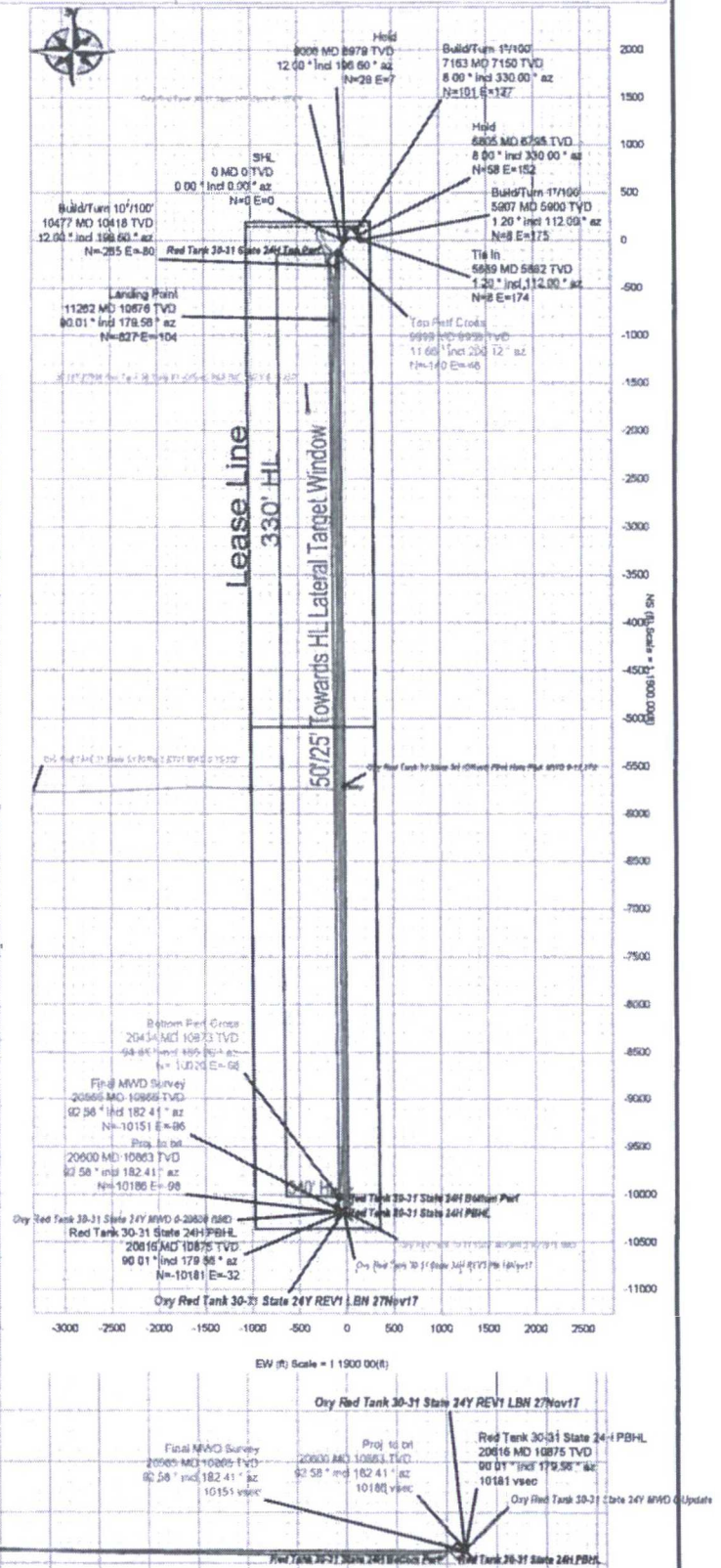
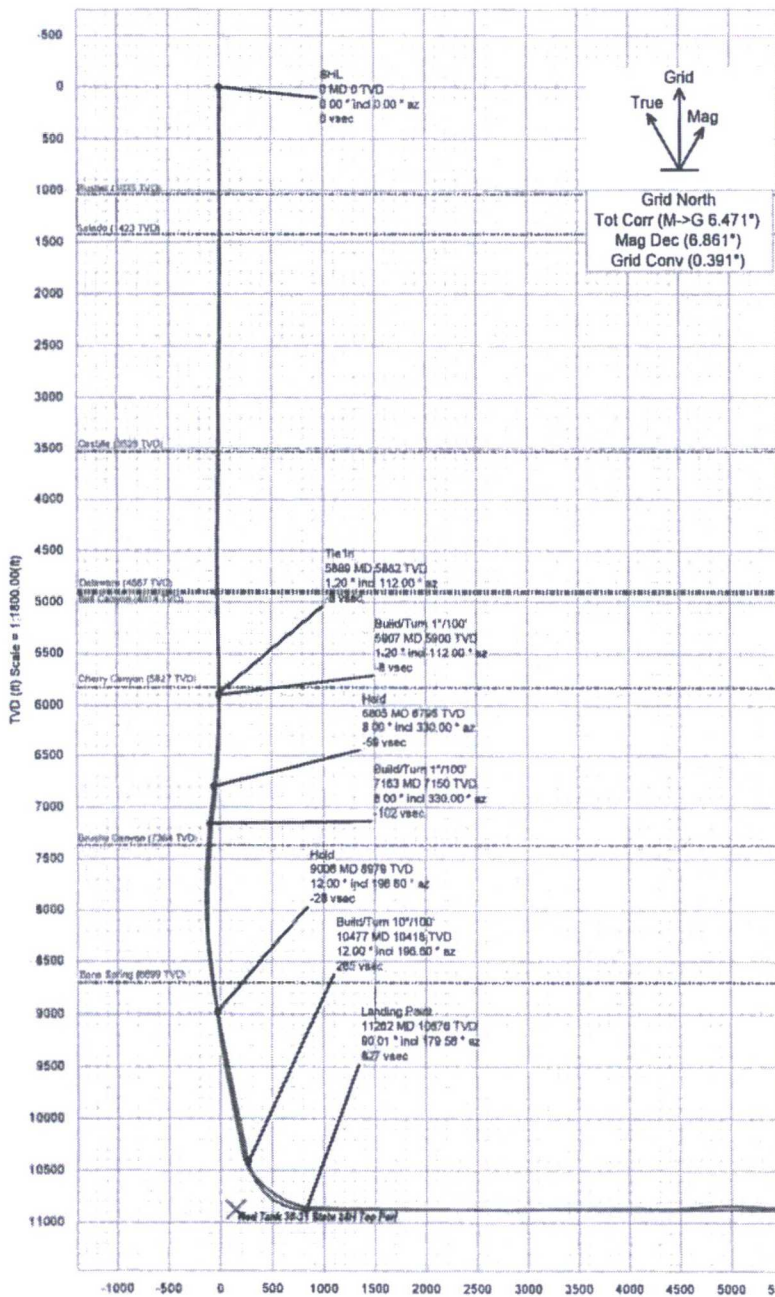


OXY



Borehole:		Well:		Field:		Structure:	
Original Borehole		Oxy Red Tank 30-31 State 24Y		NM Lea County (NAD 83)		Oxy Red Tank 30-31 State 24Y	
Gravity & Magnetic Parameters				Surface Location		Miscellaneous	
Map: HDGM 2017	Dip: 68.192°	Date: 27-Nov-2017	NAD83 New Mexico State Plane, Eastern Zone, US Feet		Oxy Red Tank 30-31 State 24Y		TVD Ref: RKB=28.6 [3889 ft above MSL]
MagDec: 8.881°	PS 48197.871nT	Gravity FS 988.482mgm (8.8865 Based)	Lat: N 32 22 18.30	Northing: 438934.981US	Grid Conv: 0.3885°	Plot: Oxy Red Tank 30-31 State 24Y	REV1 LBN 27Nov17
			Lon: W 163 38 14.16	Easting: 768534.980US	Scale Fact: 0.98999717		

HOBBS OCD
JAN 17 2018
RECEIVED



Vertical Section (ft) Azim = 180.18° Scale = 1:1600.00(ft) Origin = 0N/-S, 0E/-W



Oxy Red Tank 30-31 State 24Y MWD 0-20600 ftMD Survey Geodetic Report

(Def Survey)

Report Date:	December 14, 2017 - 09:32 AM	Survey / DLS Computation:	Minimum Curvature / Lubinski
Client:	OXY	Vertical Section Azimuth:	180 180 ° (Grid North)
Field:	NM Lea County (NAD 83)	Vertical Section Origin:	0 000 ft, 0 000 ft
Structure / Slot:	Oxy Red Tank 30-31 State 24Y / Oxy Red Tank 30-31 State 24Y	TVD Reference Datum:	RKB-26 5
Well:	Oxy Red Tank 30-31 State 24Y	TVD Reference Elevation:	3686 600 ft above MSL
Borehole:	Original Borehole	Seabed / Ground Elevation:	3660 100 ft above MSL
UWI / API#:	Unknown / Unknown	Magnetic Declination:	6 861 °
Survey Name:	Oxy Red Tank 30-31 State 24Y MWD 0-20600 ftMD	Total Gravity Field Strength:	998 4524mgN (9 80665 Based)
Survey Date:	November 27, 2017	Gravity Model:	GARM
Tort / AHD / DDI / ERD Ratio:	263 021 ° / 10748 445 ft / 6.727 / 0.985	Total Magnetic Field Strength:	48197 871 nT
Coordinate Reference System:	NAD83 New Mexico State Plane, Eastern Zone, US Feet	Magnetic Dip Angle:	60 192 °
Location Lat / Long:	N 32° 22' 10.30177", W 103° 36' 14.14710"	Declination Date:	November 27, 2017
Location Grid N/E Y/X:	N 498933 500 ftUS, E 766534 990 ftUS	Magnetic Declination Model:	HDGM 2017
CRS Grid Convergence Angle:	0.3905 °	North Reference:	Grid North
Grid Scale Factor:	0.99996717	Grid Convergence Used:	0.3905 °
Version / Patch:	2 10 565 0	Total Corr Mag North->Grid North:	6.4705 °
		Local Coord Referenced To:	Well Head

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
SHL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	498933 50	766534 99	N 32 22 10 30	W 103 36 14 15
	123.00	0.40	290.80	123.00	-0.15	0.15	-0.40	0.33	498933 65	766534 59	N 32 22 10 30	W 103 36 14 15
	242.00	0.51	17.34	242.00	-0.80	0.81	-0.63	0.53	498934 31	766534 36	N 32 22 10 31	W 103 36 14 15
	400.00	0.22	349.57	399.99	-1.77	1.78	-0.48	0.21	498935 28	766534 51	N 32 22 10 32	W 103 36 14 15
	514.00	0.41	349.59	513.99	-2.39	2.39	-0.59	0.17	498935 89	766534 40	N 32 22 10 33	W 103 36 14 15
	608.00	0.45	318.48	607.99	-3.00	3.00	-0.90	0.25	498936 50	766534 09	N 32 22 10 33	W 103 36 14 16
	796.00	0.76	199.41	795.98	-2.37	2.38	-1.80	0.56	498935 88	766533 19	N 32 22 10 33	W 103 36 14 17
	891.00	0.68	270.91	890.98	-1.78	1.79	-2.57	0.89	498935 29	766532 42	N 32 22 10 32	W 103 36 14 18
	1060.00	0.55	270.91	1059.97	-1.81	1.82	-4.39	0.08	498935 32	766530 60	N 32 22 10 32	W 103 36 14 20
	1152.00	0.94	259.25	1151.96	-1.67	1.69	-5.57	0.45	498935 19	766529 42	N 32 22 10 32	W 103 36 14 21
	1242.00	0.98	256.06	1241.95	-1.34	1.36	-7.04	0.07	498934 86	766527 95	N 32 22 10 32	W 103 36 14 22
	1332.00	0.79	269.94	1331.94	-1.15	1.18	-8.41	0.32	498934 68	766526 58	N 32 22 10 31	W 103 36 14 25
	1423.00	0.93	267.58	1422.93	-1.11	1.14	-9.77	0.16	498934 64	766525 22	N 32 22 10 31	W 103 36 14 26
	1514.00	0.85	279.85	1513.92	-1.19	1.23	-11.18	0.23	498934 73	766523 81	N 32 22 10 31	W 103 36 14 28
	1605.00	0.66	299.52	1604.91	-1.56	1.60	-12.30	0.35	498935 10	766522 69	N 32 22 10 32	W 103 36 14 29
	1699.00	0.75	297.03	1698.90	-2.11	2.15	-13.32	0.10	498935 65	766521 67	N 32 22 10 32	W 103 36 14 30
	1888.00	0.73	326.65	1887.89	-3.67	3.72	-15.08	0.20	498937 22	766519 91	N 32 22 10 34	W 103 36 14 32
	1982.00	0.75	350.87	1981.88	-4.78	4.82	-15.51	0.33	498938 32	766519 48	N 32 22 10 35	W 103 36 14 33
	2077.00	0.72	10.94	2076.87	-5.98	6.02	-15.49	0.27	498939 52	766519 50	N 32 22 10 36	W 103 36 14 33
	2172.00	0.71	16.63	2171.86	-7.13	7.17	-15.21	0.08	498940 67	766519 78	N 32 22 10 37	W 103 36 14 32
	2361.00	0.75	47.99	2360.85	-9.08	9.12	-13.96	0.21	498942 62	766521 03	N 32 22 10 39	W 103 36 14 31
	2550.00	0.79	67.64	2549.83	-10.41	10.45	-11.83	0.14	498943 95	766523 16	N 32 22 10 41	W 103 36 14 28
	2739.00	1.15	74.82	2738.80	-11.42	11.45	-8.80	0.20	498944 95	766526 19	N 32 22 10 42	W 103 36 14 25
	2928.00	1.67	75.31	2927.75	-12.63	12.65	-4.31	0.28	498946 15	766530 68	N 32 22 10 43	W 103 36 14 20
	3022.00	2.07	76.68	3021.70	-13.38	13.39	-1.33	0.43	498946 89	766533 86	N 32 22 10 43	W 103 36 14 16
	3116.00	2.39	74.79	3115.62	-14.30	14.29	2.21	0.35	498947 79	766537 20	N 32 22 10 44	W 103 36 14 12
	3305.00	2.42	80.04	3304.46	-16.05	16.02	9.95	0.12	498949 51	766544 94	N 32 22 10 46	W 103 36 14 03
	3400.00	1.58	85.01	3399.40	-16.52	16.48	13.23	0.90	498949 98	766548 22	N 32 22 10 48	W 103 36 13 99
	3589.00	2.29	81.63	3588.29	-17.31	17.25	19.56	0.38	498950 75	766554 55	N 32 22 10 47	W 103 36 13 82
	3684.00	2.68	85.47	3683.20	-17.78	17.70	23.63	0.43	498951 20	766558 62	N 32 22 10 48	W 103 36 13 87
	3872.00	1.98	73.99	3871.05	-19.03	18.93	31.07	0.44	498952 43	766568 06	N 32 22 10 49	W 103 36 13 78
	4062.00	3.93	74.05	4060.79	-21.75	21.62	40.46	1.04	498955 12	766575 45	N 32 22 10 51	W 103 36 13 67
	4157.00	4.94	75.91	4155.50	-23.66	23.51	47.55	1.07	498957 01	766582 54	N 32 22 10 53	W 103 36 13 59
	4346.00	6.38	85.36	4343.58	-26.55	26.34	65.92	0.91	498959 84	766600 90	N 32 22 10 56	W 103 36 13 38
	4441.00	6.69	90.78	4437.96	-26.93	26.69	76.71	0.73	498960 19	766611 70	N 32 22 10 56	W 103 36 13 25
	4535.00	6.65	93.95	4531.33	-26.52	26.24	87.61	0.39	498959 74	766622 60	N 32 22 10 56	W 103 36 13 12
	4630.00	6.23	94.29	4625.73	-25.79	25.48	98.24	0.44	498958 98	766633 23	N 32 22 10 55	W 103 36 13 00
	4724.00	5.69	96.29	4719.22	-24.93	24.59	107.96	0.62	498958 09	766642 95	N 32 22 10 54	W 103 36 12 89
	4819.00	5.21	98.96	4813.79	-23.77	23.40	116.90	0.57	498956 90	766651 89	N 32 22 10 53	W 103 36 12 78
	4913.00	4.87	99.25	4907.43	-22.49	22.09	125.06	0.36	498955 59	766660 04	N 32 22 10 51	W 103 36 12 69
	5008.00	4.53	101.17	5002.11	-21.13	20.72	132.72	0.39	498954 22	766667 70	N 32 22 10 50	W 103 36 12 80
	5102.00	4.24	100.91	5096.83	-19.78	19.34	139.77	0.31	498952 84	766674 76	N 32 22 10 48	W 103 36 12 52
	5196.00	3.85	103.43	5189.60	-18.41	17.95	146.25	0.46	498951 45	766681 24	N 32 22 10 47	W 103 36 12 44
	5291.00	3.55	106.46	5284.40	-16.85	16.38	152.18	0.38	498949 88	766687 16	N 32 22 10 45	W 103 36 12 37
	5386.00	3.23	109.82	5379.23	-15.13	14.64	157.51	0.40	498948 13	766692 50	N 32 22 10 44	W 103 36 12 31
	5480.00	2.76	111.37	5473.11	-13.42	12.91	162.11	0.51	498946 41	766697 10	N 32 22 10 42	W 103 36 12 26
	5575.00	2.26	112.68	5568.01	-11.88	11.36	165.97	0.53	498944 86	766700 96	N 32 22 10 40	W 103 36 12 21
	5670.00	1.85	114.16	5662.95	-10.54	10.01	169.10	0.44	498943 51	766704 08	N 32 22 10 39	W 103 36 12 17
	5764.00	1.51	113.85	5756.91	-9.42	8.89	171.62	0.36	498942 39	766706 60	N 32 22 10 38	W 103 36 12 15
	5858.00	1.36	118.03	5851.88	-8.39	7.85	173.76	0.19	498941 35	766708 74	N 32 22 10 37	W 103 36 12 12
	5954.00	0.95	118.95	5946.86	-7.49	6.94	175.44	0.43	498940 44	766710 42	N 32 22 10 36	W 103 36 12 10
	6049.00	0.40	84.92	6041.86	-7.14	6.59	176.46	0.69	498940 09	766711 44	N 32 22 10 36	W 103 36 12 09
	6144.00	0.45	16.48	6136.85	-7.53	6.97	176.90	0.51	498940 47	766711 88	N 32 22 10 36	W 103 36 12 08
	6238.00	1.08	349.88	6230.85	-8.75	8.20	176.84	0.75	498941 70	766711 83	N 32 22 10 37	W 103 36 12 08
	6333.00	1.57	340.54	6325.82	-10.86	10.31	176.25	0.56	498943 81	766711 24	N 32 22 10 39	W 103 36 12 09
	6427.00	2.22	339.84	6419.77	-13.78	13.23	175.20	0.89	498946 73	766710 18	N 32 22 10 42	W 103 36 12 10
	6522.00	2.96	340.65	6514.67	-17.82	17.27	173.75	0.78	498950 77	766708 73	N 32 22 10 46	W 103 36 12 12
	6616.00	3.92	338.65	6608.50	-23.09	22.56	171.78	1.03	498956 05	766706 76	N 32 22 10 51	W 103 36 12 14
	6711.00	4.92	339.75	6703.22	-29.93	29.40	169.18	1.06	498962 90	766704 17	N 32 22 10 58	W 103 36 12 17
	6756.00	5.55	339.96	6748.03	-33.78	33.26	167.77	1.40	498966 76	766702 75	N 32 22 10 62	W 103 36 12 19
	6877.00	7.16	338.59	6868.28	-46.29	45.78	163.01	1.34	498979 27	766698 00	N 32 22 10 74	W 103 36 12 24
	6972.00	8.56	327.97	6962.39	-57.78	57.28	157.10	2.12	498990 78	766692 09	N 32 22 10 86	W 103 36 12 31
	7067.00	8.54	325.27	7056.34	-69.54	69.07	149.33	0.42	499002 57	766684 32	N 32 22 10 98	W 103 36 12 40
	7161.00	7.96	325.14	7149.36	-80.59	80.15	141.64	0.82	499013 65	766676 82	N 32 22 11 09	W 103 36 12 49
	7256.00	6.91	311.11	7243.57	-89.72	89.31	133.57	2.20	499022 80	766668 55	N 32 22 11 18	W 103 36 12 58
	7351.00	6.12	311.46	7337.96	-96.81	96.42	125.47	0.83	499029 91	766660 45	N 32 22 11 25	W 103 36 12 68
	7445.00	5.68	311.14	7431.46	-103.17	102.79	118.21	0.47	499036 29	766653 20	N 32 22 11 31	W 103 36 12 76
	7540.00	5.07	310.39	7526.04	-108.96	108.61	111.47	0.65	499042 10	766646 46	N 32 22 11 37	W 103 36 12 84
	7635.00	4.91	307.68	7620.88	-114.14	113.81	105.06	0.30	499047 31	766640 04	N 32 22 11 42	W 103 36 12 91
	7729.00	4.14	307.76	7714.39	-118.66	118.35	99.19	0.82	499051 85	766634 18	N 32 22 11 47	W 103 36 12 98
	7824.00	4.81	292.07	7809.10	-122.24	121.95	92.79	1.46	499055 44	766627 78	N 32 22 11 50	W 103 36 13 06
	7918.00	4.16	281.17	7902.81	-124.36	124.09	85.79	1.14	499057 58	766620 78	N 32 22 11 52	W 103 36 13 13

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (ft/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
	8013.00	5.02	276.24	7997.51	-125.45	125.21	78.28	1.00	499058.70	766613.27	N 32 22 11.54	W 103 36 13.22
	8108.00	5.77	260.48	8092.09	-125.09	124.87	69.44	1.74	499058.36	766604.42	N 32 22 11.53	W 103 36 13.33
	8202.00	6.74	247.66	8185.53	-122.18	121.99	59.67	1.80	499055.49	766594.66	N 32 22 11.50	W 103 36 13.44
	8297.00	6.75	233.22	8279.88	-116.68	116.53	50.05	1.78	499050.02	766585.03	N 32 22 11.45	W 103 36 13.55
	8392.00	7.66	225.87	8374.13	-108.90	108.78	41.03	1.36	499042.27	766576.02	N 32 22 11.38	W 103 36 13.66
	8487.00	8.38	214.94	8468.21	-98.79	98.69	32.52	1.77	499032.19	766567.51	N 32 22 11.28	W 103 36 13.76
	8581.00	8.58	205.20	8561.19	-86.81	86.73	25.61	1.54	499020.23	766556.60	N 32 22 11.16	W 103 36 13.84
	8675.00	8.30	200.82	8654.17	-74.11	74.05	20.21	0.75	499007.54	766555.20	N 32 22 11.03	W 103 36 13.91
	8770.00	9.46	197.79	8748.03	-60.25	60.20	15.39	1.32	498993.70	766550.38	N 32 22 10.90	W 103 36 13.98
	8864.00	8.24	195.69	8840.91	-46.40	46.36	11.21	1.34	498979.86	766546.20	N 32 22 10.76	W 103 36 14.01
	8959.00	8.25	191.71	8934.93	-33.16	33.13	7.98	0.60	498966.63	766542.97	N 32 22 10.63	W 103 36 14.05
	9053.00	6.81	199.07	9028.12	-21.28	21.26	4.79	1.84	498954.76	766539.78	N 32 22 10.51	W 103 36 14.09
	9148.00	7.77	199.25	9122.35	-9.88	9.87	0.84	1.01	498943.37	766535.83	N 32 22 10.40	W 103 36 14.14
	9243.00	9.41	201.15	9216.28	3.45	-3.43	-4.08	1.75	498930.07	766530.91	N 32 22 10.27	W 103 36 14.19
	9337.00	10.59	199.64	9308.85	18.77	-18.73	-9.76	1.29	498914.77	766525.23	N 32 22 10.12	W 103 36 14.26
	9432.00	9.11	209.98	9402.46	33.52	-33.47	-16.45	2.42	498900.03	766518.54	N 32 22 9.97	W 103 36 14.34
	9527.00	10.76	203.15	9496.03	48.22	-48.14	-23.70	2.13	498885.36	766511.29	N 32 22 9.83	W 103 36 14.43
	9621.00	13.18	189.84	9588.00	66.87	-66.78	-28.98	3.89	498866.73	766506.01	N 32 22 9.64	W 103 36 14.49
	9716.00	11.97	190.50	9680.72	87.24	-87.13	-32.63	1.28	498846.37	766502.36	N 32 22 9.44	W 103 36 14.53
	9811.00	11.05	193.18	9773.81	105.80	-105.69	-36.50	1.12	498827.82	766498.49	N 32 22 9.26	W 103 36 14.58
	9905.00	10.79	194.33	9866.10	123.11	-122.98	-40.73	0.36	498810.52	766494.26	N 32 22 9.09	W 103 36 14.63
	10000.00	11.67	200.18	9959.29	140.76	-140.62	-46.25	1.51	498792.89	766488.75	N 32 22 8.91	W 103 36 14.70
	10095.00	12.67	198.34	10052.15	159.69	-159.52	-52.84	1.13	498773.98	766482.15	N 32 22 8.73	W 103 36 14.78
	10189.00	12.43	198.20	10143.91	179.11	-178.92	-59.24	0.26	498754.59	766475.75	N 32 22 8.54	W 103 36 14.85
	10284.00	12.58	197.62	10236.65	198.70	-198.49	-65.57	0.21	498735.01	766469.43	N 32 22 8.34	W 103 36 14.93
	10355.00	11.25	197.49	10306.12	212.69	-212.47	-69.99	1.87	498721.04	766465.00	N 32 22 8.20	W 103 36 14.98
	10401.00	11.17	195.48	10351.24	221.27	-221.04	-72.53	0.87	498712.47	766462.47	N 32 22 8.12	W 103 36 15.01
	10496.00	24.30	186.59	10441.55	249.70	-249.46	-77.25	14.07	498684.05	766457.75	N 32 22 7.84	W 103 36 15.07
	10590.00	36.41	183.66	10522.51	296.94	-296.69	-81.26	12.98	498636.82	766453.73	N 32 22 7.37	W 103 36 15.12
	10685.00	43.93	185.53	10595.06	357.99	-357.72	-86.25	8.02	498575.80	766448.75	N 32 22 6.77	W 103 36 15.18
	10779.00	51.57	186.38	10658.21	427.16	-426.87	-93.49	8.16	498506.65	766441.50	N 32 22 6.08	W 103 36 15.27
	10874.00	53.54	186.46	10715.97	502.13	-501.81	-101.92	2.07	498431.70	766433.07	N 32 22 5.34	W 103 36 15.38
	10969.00	60.27	184.45	10767.82	581.33	-580.99	-109.43	7.30	498352.53	766425.56	N 32 22 4.56	W 103 36 15.47
	11063.00	68.79	182.57	10808.20	665.98	-665.62	-114.57	9.24	498267.90	766420.42	N 32 22 3.72	W 103 36 15.54
	11158.00	75.27	179.74	10837.50	756.27	-755.91	-116.35	7.39	498177.62	766418.64	N 32 22 2.83	W 103 36 15.56
	11252.00	84.28	179.78	10854.17	848.68	-848.32	-115.97	9.59	498085.21	766419.03	N 32 22 1.92	W 103 36 15.57
	11347.00	87.87	180.41	10860.67	943.44	-943.08	-116.12	3.84	497990.45	766418.87	N 32 22 0.98	W 103 36 15.58
	11408.00	87.53	180.62	10863.12	1004.39	-1004.03	-116.67	0.65	497929.51	766418.32	N 32 22 0.38	W 103 36 15.59
	11503.00	89.55	181.74	10865.54	1099.34	-1098.97	-116.83	2.43	497834.57	766416.37	N 32 21 59.44	W 103 36 15.62
	11598.00	89.55	182.38	10866.29	1194.28	-1193.91	-122.04	0.67	497739.84	766412.75	N 32 21 58.50	W 103 36 15.66
	11692.00	89.55	182.82	10867.03	1288.20	-1287.81	-126.31	0.47	497645.74	766408.69	N 32 21 57.57	W 103 36 15.72
	11787.00	89.66	182.03	10867.68	1383.12	-1382.72	-130.33	0.84	497550.83	766404.67	N 32 21 56.63	W 103 36 15.78
	11882.00	89.61	181.18	10868.29	1478.09	-1477.68	-132.99	0.90	497455.87	766402.01	N 32 21 55.69	W 103 36 15.81
	11978.00	89.66	180.77	10868.93	1572.08	-1571.66	-134.59	0.44	497361.89	766400.41	N 32 21 54.76	W 103 36 15.84
	12071.00	89.66	180.70	10869.53	1667.07	-1666.65	-135.81	0.09	497268.91	766399.19	N 32 21 53.82	W 103 36 15.86
	12260.00	89.61	178.75	10870.74	1858.05	-1855.64	-134.90	1.03	497077.93	766400.10	N 32 21 51.95	W 103 36 15.87
	12354.00	89.89	178.19	10871.15	1950.01	-1949.60	-132.39	0.67	496983.97	766402.61	N 32 21 51.02	W 103 36 15.85
	12449.00	89.55	177.77	10871.61	2044.94	-2044.54	-129.04	0.57	496889.03	766405.95	N 32 21 50.08	W 103 36 15.81
	12544.00	89.27	178.16	10872.59	2139.86	-2139.48	-125.67	0.51	496794.10	766409.33	N 32 21 49.14	W 103 36 15.78
	12638.00	89.61	177.57	10873.51	2233.78	-2233.41	-122.16	0.72	496700.17	766412.83	N 32 21 48.21	W 103 36 15.75
	12733.00	89.50	176.60	10874.25	2328.64	-2328.28	-117.33	1.03	496605.30	766417.66	N 32 21 47.27	W 103 36 15.70
	12922.00	89.72	178.05	10875.53	2517.39	-2517.06	-106.51	0.78	496416.52	766426.48	N 32 21 45.40	W 103 36 15.61
	13017.00	89.33	179.30	10876.32	2612.35	-2612.03	-106.32	1.38	496321.56	766428.68	N 32 21 44.46	W 103 36 15.59
	13111.00	90.11	177.82	10876.78	2706.31	-2706.00	-104.04	1.69	496227.59	766430.96	N 32 21 43.53	W 103 36 15.57
	13206.00	90.39	178.44	10876.37	2801.28	-2800.95	-101.02	0.62	496132.65	766433.97	N 32 21 42.59	W 103 36 15.55
	13301.00	90.50	177.28	10875.63	2896.17	-2895.88	-97.47	1.23	496037.72	766437.52	N 32 21 41.65	W 103 36 15.51
	13395.00	90.62	177.04	10874.71	2990.04	-2989.76	-92.82	0.29	495943.84	766442.18	N 32 21 40.73	W 103 36 15.47
	13490.00	90.45	177.53	10873.82	3084.91	-3084.65	-88.32	0.55	495849.96	766446.68	N 32 21 39.79	W 103 36 15.42
	13585.00	90.50	178.87	10873.03	3179.85	-3179.60	-85.33	1.41	495754.01	766449.66	N 32 21 38.85	W 103 36 15.39
	13680.00	90.56	179.64	10872.16	3274.83	-3274.59	-84.10	0.81	495659.03	766450.90	N 32 21 37.91	W 103 36 15.39
	13774.00	90.62	179.76	10871.19	3368.82	-3368.58	-83.60	0.14	495565.04	766451.39	N 32 21 36.98	W 103 36 15.39
	13869.00	90.62	179.95	10870.16	3463.82	-3463.57	-83.36	0.20	495470.05	766451.63	N 32 21 36.04	W 103 36 15.39
	13964.00	90.62	179.70	10869.13	3558.81	-3558.57	-83.07	0.26	495375.06	766451.92	N 32 21 35.10	W 103 36 15.40
	14058.00	90.45	179.75	10868.25	3652.80	-3652.56	-82.62	0.19	495281.07	766452.37	N 32 21 34.17	W 103 36 15.40
	14153.00	90.90	180.17	10867.13	3747.80	-3747.55	-82.56	0.65	495186.08	766452.44	N 32 21 33.23	W 103 36 15.41
	14248.00	90.06	180.42	10866.34	3842.79	-3842.55	-83.05	0.92	495091.08	766451.95	N 32 21 32.29	W 103 36 15.42
	14343.00	89.38	180.10	10867.26	4031.79	-4031.54	-83.90	0.40	494902.10	766451.09	N 32 21 30.42	W 103 36 15.45
	14532.00	89.66	180.15	10868.06	4126.78	-4126.54	-84.11	0.30	494807.10	766450.88	N 32 21 29.48	W 103 36 15.46
	14627.00	89.83	180.21	10868.48	4221.78	-4221.54	-84.41	0.19	494712.11	766450.58	N 32 21 28.54	W 103 36 15.47
	14721.00	89.66	180.10	10868.90	4315.78	-4315.54	-84.66	0.22	494618.11	766450.33	N 32 21 27.61	W 103 36 15.48
	14907.00	92.92	181.13	10864.71	4501.70	-4501.45	-86.66	1.84	494432.21	766448.34	N 32 21 25.77	W 103 36 15.51
	15001.00	93.70	181.23	10859.29	4595.53	-4595.27	-88.59	0.84	494338.39	766446.40	N 32 21 24.84	W 103 36 15.54
	15095.00	96.01	182.10	10851.25	4690.15	-4689.89	-91.34	2.80	494243.78	766443.65	N 32 21 23.90	W 103 36 15.58
	15285.00	91.51	180.41	10838.85	4878.65	-4878.38	-95.46	2.54	494055.29	766439.53	N 32 21 22.04	W 103 36 15.65
	15475.00	88.32	179.53	10839.14	5068.63	-5068.35	-95.36	1.74	493865.32	766439.63	N 32 21 20.16	W 103 36 15.66
	15664.00	86.46	178.82	10847.74	5257.39	-5257.13	-92.64	1.05	493676.56	766442.35	N 32 21 18.29	W 103

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS ("/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
	19165.00	90.34	180.07	10910.48	8756.18	-8756.09	-41.72	0.52	490177.72	766493.27	N 32 20 43.67	W 103 36 15.33
	19354.00	90.00	179.12	10909.92	8945.16	-8945.08	-40.38	0.53	489988.73	766494.61	N 32 20 41.80	W 103 36 15.33
	19544.00	90.06	179.72	10909.82	9135.14	-9135.07	-38.46	0.32	489798.75	766496.53	N 32 20 39.92	W 103 36 15.32
	19733.00	89.61	179.18	10910.36	9324.13	-9324.06	-36.64	0.37	489609.77	766498.35	N 32 20 38.05	W 103 36 15.31
	19922.00	90.34	185.75	10910.44	9512.87	-9512.78	-44.77	3.50	489421.05	766490.22	N 32 20 36.18	W 103 36 15.42
	20016.00	91.01	178.87	10909.34	9606.74	-9606.64	-48.55	7.35	489327.20	766488.44	N 32 20 35.25	W 103 36 15.48
	20205.00	95.90	186.80	10897.93	9794.99	-9794.86	-57.84	4.92	489138.98	766477.15	N 32 20 33.39	W 103 36 15.60
	20300.00	97.13	189.27	10887.15	9888.48	-9888.31	-71.03	2.89	489045.54	766463.96	N 32 20 32.48	W 103 36 15.76
	20394.00	95.78	188.28	10876.58	9981.05	-9980.84	-83.66	3.47	488953.01	766451.33	N 32 20 31.55	W 103 36 15.91
	20489.00	93.48	183.87	10868.91	10075.39	-10075.15	-92.03	3.50	488858.70	766442.96	N 32 20 30.62	W 103 36 16.02
Final MWD	20565.00	92.58	182.41	10864.89	10151.18	-10150.92	-96.19	2.25	488782.93	766438.80	N 32 20 29.87	W 103 36 16.07
Survey												
Proj. to bit	20600.00	92.58	182.41	10863.32	10186.11	-10185.86	-97.66	0.00	488748.00	766437.33	N 32 20 29.52	W 103 36 16.09

Survey Type: Def Survey

Survey Error Model: ISCWSA Rev 0 *** 3-D 95.000% Confidence 2.7955 sigma
Survey Program:

Description	Part	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size Casing Diameter (in)	Survey Tool Type	Borehole / Survey	
	1	0.000	26.500	1/98.425	30.000	30.000	NAL_MWD_PLUS_0.5_DEG-Depth Only	Original Borehole / Oxy Red Tank 30-31 State 24Y MWD 0-20600 ftMD
	1	26.500	26.500	Act Stns	30.000	30.000	NAL_MWD_PLUS_0.5_DEG-Depth Only	Original Borehole / Oxy Red Tank 30-31 State 24Y MWD 0-20600 ftMD
	1	26.500	20600.000	Act Stns	30.000	30.000	NAL_MWD_PLUS_0.5_DEG	Original Borehole / Oxy Red Tank 30-31 State 24Y MWD 0-20600