

NM OIL CONSERVATION

ARTESIA DISTRICT

MAR 02 2015



3001540775

RECEIVED

2105 MARKET STREET
MIDLAND, TX 79703
24 HR (432) 694-9517

STATE OF TEXAS

COUNTY OF MIDLAND

I, JOHN PIKE, Directional Driller certify that I am employed by Baker Hughes INTEQ; did conduct or supervise on the day(s) of 12/26/2013 through 02/02/2014 the

taking of MWD surveys from a depth of 4303' to a depth of 13415' that

the data is true, correct, complete and within the limitations of the tool as set forth by Baker Hughes INTEQ; that I am

authorized and qualified to make this report; that this survey was conducted at the request of OXY

for the LOST TANK 4 FEDERAL NO. 23

Well, API No.

30-015-40775

in EDDY

County, NM; and that I have reviewed this report and find that it conforms to

the principles and procedures as set forth by INTEQ.

RD *3/2/2015*
Accepted for record
NMSCD

Thomas
Janousek

Digitally signed by Thomas Janousek
DN: cn=Thomas Janousek, o=Baker
Hughes, ou=INTEQ,
email=Thomas.Janousek@BakerHugh
es.com, c=US
Date: 2015.02.11 12:53:17 -06'00'

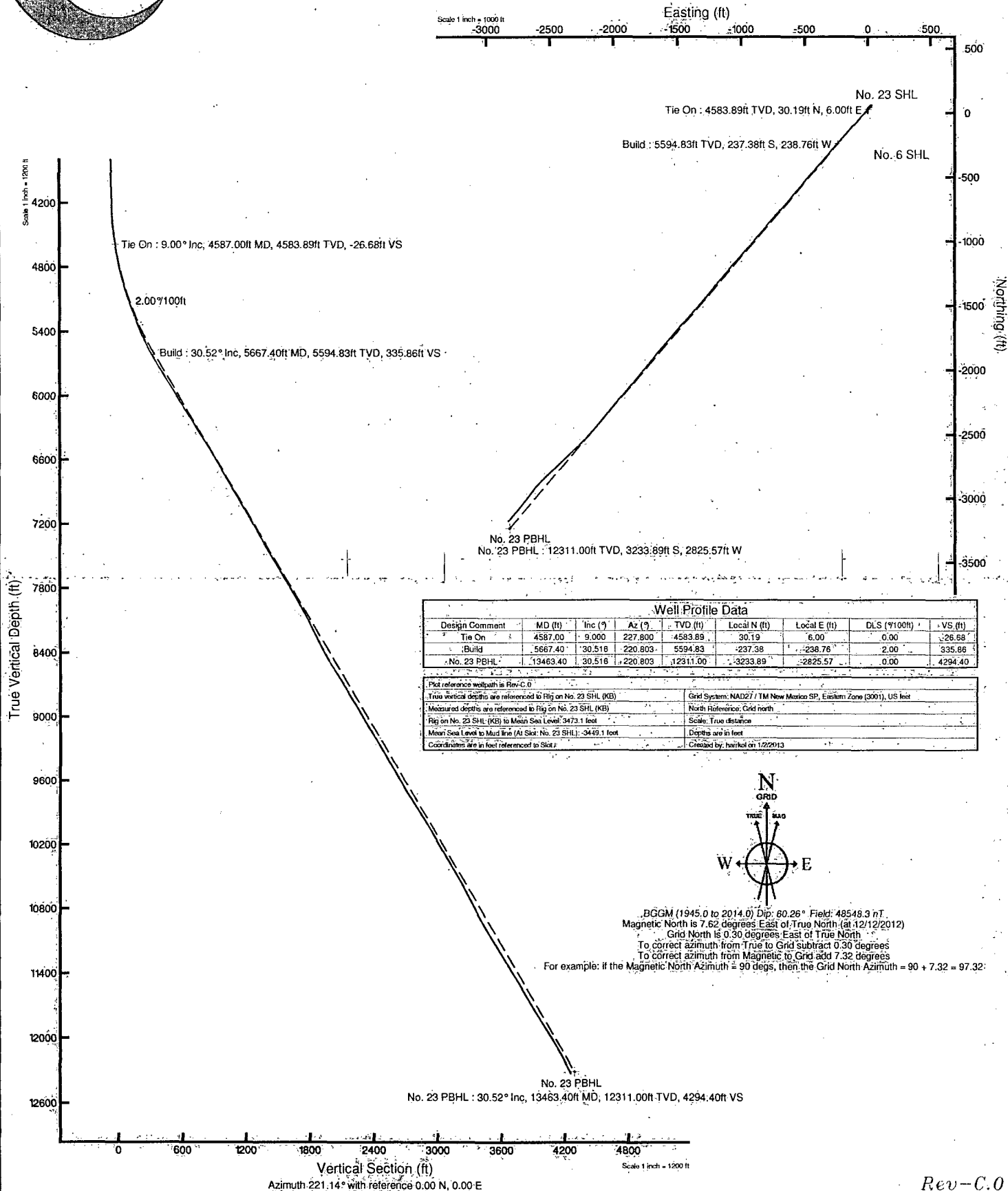
Field Service Engineer: JOHN PIKE



OXY Permian

Location: Eddy County, NM
Field: (Lost Tank) Sec 4, T22S, R31E
Facility: Lost Tank 4 Federal 23

Slot: No. 23 SHL
Well: No. 23
Wellbore: No. 23 PWB





Actual Wellpath Report

No. 4 AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	OXY Permian	Slot	No. 23 SHL
Area	Eddy County, NM	Well	No. 23
Field	(Lost Tank) Sec 4, T22S, R31E	Wellbore	No. 4 AWP
Facility	Lost Tank 4 Federal 23		

REPORT SETUP INFORMATION			
Projection System	NAD27 / TM New Mexico SP, Eastern Zone (3001), US feet	Software System	WellArchitect® 3.0.0
North Reference	Grid	User	Gilbjosl
Scale	0.999943	Report Generated	04/Feb/2013 at 8:49:06 AM
Convergence at slot	0.30° East	Database/Source file	WA Midland/No. 4 AWP.xml

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	0.00	0.00	670891.80	518373.10	32°25'26.054"N	103°46'46.202"W
Facility Reference Pt			670891.80	518373.10	32°25'26.054"N	103°46'46.202"W
Field Reference Pt			670891.80	518373.10	32°25'26.054"N	103°46'46.202"W

WELLPATH DATUM			
Calculation method	Minimum curvature	Rig on No. 23 SHL (KB) to Facility Vertical Datum	24.00ft
Horizontal Reference Pt	Slot	Rig on No. 23 SHL (KB) to Mean Sea Level	3473.10ft
Vertical Reference Pt	Rig on No. 23 SHL (KB)	Rig on No. 23 SHL (KB) to Mud Line at Slot (No. 23 SHL)	24.00ft
MD Reference Pt	Rig on No. 23 SHL (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	221.74°



Actual Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION			
Operator	OXY Permian	Slot	No. 23 SHL
Area	Eddy County, NM	Well	No. 23
Field	(Lost Tank) Sec 4, T22S, R31E	Wellbore	No. 4 AWB
Facility	Lost Tank 4 Federal 23		

WELLPATH DATA (141 stations)												
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
0.00	0.000	0.000	0.00	0.00	0.00	0.00	670891.80	518373.10	32°25'26.054"N	103°46'46.202"W	0.00	
160.00	0.790	0.000	159.99	-0.82	1.10	0.00	670891.80	518374.20	32°25'26.065"N	103°46'46.202"W	0.49	
221.00	0.790	0.000	220.99	-1.45	1.94	0.00	670891.80	518375.04	32°25'26.073"N	103°46'46.202"W	0.00	
236.00	0.790	0.000	235.99	-1.61	2.15	0.00	670891.80	518375.25	32°25'26.075"N	103°46'46.202"W	0.00	
372.00	0.700	0.000	371.98	-2.92	3.92	0.00	670891.80	518377.02	32°25'26.092"N	103°46'46.202"W	0.07	
470.00	0.880	0.000	469.97	-3.93	5.27	0.00	670891.80	518378.37	32°25'26.106"N	103°46'46.202"W	0.18	
531.00	0.090	0.000	530.96	-4.32	5.79	0.00	670891.80	518378.89	32°25'26.111"N	103°46'46.202"W	1.30	
625.00	0.880	0.000	624.96	-4.91	6.58	0.00	670891.80	518379.68	32°25'26.119"N	103°46'46.202"W	0.84	
715.00	0.880	0.000	714.95	-5.94	7.96	0.00	670891.80	518381.06	32°25'26.132"N	103°46'46.202"W	0.00	
800.00	1.010	344.790	799.94	-6.84	9.34	-0.20	670891.60	518382.44	32°25'26.146"N	103°46'46.204"W	0.33	
888.00	1.010	242.440	887.93	-6.54	9.73	-1.09	670890.71	518382.83	32°25'26.150"N	103°46'46.214"W	1.79	
981.00	0.880	348.570	980.92	-6.20	10.05	-1.96	670889.84	518383.15	32°25'26.153"N	103°46'46.224"W	1.63	
1083.00	0.880	351.690	1082.91	-7.17	11.59	-2.22	670889.58	518384.69	32°25'26.168"N	103°46'46.227"W	0.05	
1225.00	0.880	353.490	1224.89	-8.60	13.76	-2.51	670889.29	518386.86	32°25'26.190"N	103°46'46.231"W	0.02	
1354.00	0.880	351.910	1353.88	-9.90	15.72	-2.76	670889.04	518388.82	32°25'26.209"N	103°46'46.233"W	0.02	
1444.00	0.880	358.370	1443.87	-10.84	17.10	-2.87	670888.93	518390.19	32°25'26.223"N	103°46'46.235"W	0.11	
1542.00	0.880	355.380	1541.86	-11.91	18.60	-2.96	670888.84	518391.70	32°25'26.238"N	103°46'46.235"W	0.05	
1631.00	0.880	355.380	1630.85	-12.85	19.96	-3.07	670888.73	518393.06	32°25'26.251"N	103°46'46.237"W	0.00	
1800.00	0.880	358.500	1799.83	-14.69	22.55	-3.20	670888.60	518395.65	32°25'26.277"N	103°46'46.238"W	0.03	
1893.00	1.010	351.700	1892.81	-15.74	24.08	-3.34	670888.46	518397.18	32°25'26.292"N	103°46'46.240"W	0.18	
2016.00	1.100	10.890	2015.79	-17.45	26.31	-3.28	670888.52	518399.41	32°25'26.314"N	103°46'46.239"W	0.29	
2112.00	1.190	17.000	2111.77	-19.15	28.17	-2.81	670888.99	518401.27	32°25'26.332"N	103°46'46.233"W	0.16	
2206.00	1.320	21.400	2205.75	-21.05	30.11	-2.13	670889.67	518403.21	32°25'26.352"N	103°46'46.225"W	0.17	
2298.00	1.410	24.300	2297.73	-23.12	32.13	-1.28	670890.52	518405.22	32°25'26.372"N	103°46'46.215"W	0.12	
2394.00	1.490	26.980	2393.69	-25.46	34.32	-0.22	670891.58	518407.41	32°25'26.393"N	103°46'46.203"W	0.11	
2487.00	1.580	32.210	2486.66	-27.89	36.48	-1.01	670892.81	518409.58	32°25'26.415"N	103°46'46.188"W	0.18	
2583.00	1.710	38.580	2582.62	-30.63	38.72	2.61	670894.41	518411.81	32°25'26.437"N	103°46'46.169"W	0.23	
2682.00	1.890	40.380	2681.57	-33.73	41.12	4.58	670896.38	518414.21	32°25'26.460"N	103°46'46.146"W	0.19	
2777.00	2.110	39.370	2776.51	-37.05	43.66	6.71	670898.51	518416.76	32°25'26.485"N	103°46'46.121"W	0.23	
2872.00	2.290	40.990	2871.44	-40.69	46.45	9.06	670900.86	518419.54	32°25'26.513"N	103°46'46.094"W	0.20	



Actual Wellpath Report

No. 4 AWP

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Operator	OXY Permian	Slot	No. 23 SHL
Area	Eddy County, NM	Well	No. 23
Field	(Lost Tank) Sec 4, T22S, R31E	Wellbore	No. 4 AWB
Facility	Lost Tank 4 Federal 23		

WELLPATH DATA (141 stations)												
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
2967.00	2.200	40.600	2966.37	-44.41	49.26	11.50	670903.29	518422.36	32°25'26.540"N	103°46'46.065"W	0.10	
3061.00	2.280	37.080	3060.30	-48.08	52.12	13.80	670905.60	518425.22	32°25'26.569"N	103°46'46.038"W	0.17	
3156.00	2.420	43.980	3155.22	-51.97	55.08	16.33	670908.13	518428.17	32°25'26.598"N	103°46'46.008"W	0.33	
3250.00	2.500	51.190	3249.13	-55.97	57.79	19.30	670911.10	518430.88	32°25'26.624"N	103°46'45.973"W	0.34	
3345.00	2.900	58.000	3344.03	-60.32	60.36	22.96	670914.76	518433.46	32°25'26.650"N	103°46'45.931"W	0.54	
3401.00	3.120	61.690	3399.95	-63.12	61.83	25.50	670917.30	518434.93	32°25'26.664"N	103°46'45.901"W	0.52	
3474.00	2.290	73.470	3472.87	-66.22	63.19	28.65	670920.45	518436.29	32°25'26.677"N	103°46'45.864"W	1.36	
3569.00	1.100	91.090	3567.83	-68.43	63.71	31.38	670923.18	518436.81	32°25'26.682"N	103°46'45.832"W	1.35	
3663.00	1.010	109.590	3661.81	-69.33	63.42	33.06	670924.86	518436.51	32°25'26.679"N	103°46'45.813"W	0.37	
3758.00	1.010	203.680	3756.80	-68.85	62.37	33.51	670925.31	518435.47	32°25'26.669"N	103°46'45.807"W	1.56	
3848.00	1.410	204.600	3846.78	-67.04	60.64	32.73	670924.53	518433.73	32°25'26.652"N	103°46'45.817"W	0.44	
3947.00	1.410	206.190	3945.75	-64.70	58.44	31.69	670923.49	518431.53	32°25'26.630"N	103°46'45.829"W	0.04	
4137.00	1.410	205.310	4135.69	-60.21	54.23	29.66	670921.46	518427.32	32°25'26.589"N	103°46'45.853"W	0.01	
4303.00	1.800	221.000	4301.63	-55.64	50.41	27.07	670918.87	518423.51	32°25'26.551"N	103°46'45.883"W	0.35	
4398.00	4.800	225.700	4396.46	-50.18	46.51	23.25	670915.05	518419.61	32°25'26.513"N	103°46'45.928"W	3.17	
4493.00	7.700	227.500	4490.89	-39.88	39.43	15.71	670907.51	518412.53	32°25'26.443"N	103°46'46.016"W	3.06	
4587.00	9.000	227.800	4583.89	-26.31	30.24	5.62	670897.42	518403.34	32°25'26.353"N	103°46'46.135"W	1.38	
4682.00	10.000	227.400	4677.58	-10.71	19.66	-5.95	670885.85	518392.76	32°25'26.248"N	103°46'46.270"W	1.05	
4776.00	11.500	223.800	4769.93	6.78	7.38	-18.45	670873.35	518380.48	32°25'26.128"N	103°46'46.417"W	1.75	
4871.00	13.500	223.600	4862.68	27.33	7.49	-32.65	670859.15	518365.61	32°25'25.981"N	103°46'46.583"W	2.11	
4965.00	15.700	218.400	4953.64	50.99	-25.41	-48.12	670843.68	518347.69	32°25'25.805"N	103°46'46.765"W	2.72	
5060.00	17.900	218.500	5044.58	78.40	-46.91	-65.20	670826.61	518326.19	32°25'25.593"N	103°46'46.966"W	2.32	
5155.00	19.800	222.800	5134.48	109.07	-70.14	-85.22	670806.59	518302.96	32°25'25.364"N	103°46'47.201"W	2.48	
5249.00	21.800	224.200	5222.35	142.43	-94.34	-108.21	670783.60	518278.77	32°25'25.126"N	103°46'47.470"W	2.19	
5344.00	22.600	223.600	5310.31	178.30	-120.21	-133.09	670758.71	518252.90	32°25'24.871"N	103°46'47.762"W	0.88	
5439.00	23.400	223.200	5397.76	215.40	-147.18	-158.60	670733.21	518225.93	32°25'24.605"N	103°46'48.061"W	0.86	
5533.00	25.200	222.600	5483.43	254.08	-175.52	-184.92	670706.89	518197.59	32°25'24.326"N	103°46'48.370"W	1.93	
5628.00	27.700	222.500	5568.48	296.38	-206.69	-213.53	670678.28	518166.42	32°25'24.019"N	103°46'48.706"W	2.63	
5722.00	29.900	222.600	5650.84	341.66	-240.05	-244.15	670647.66	518133.07	32°25'23.691"N	103°46'49.065"W	2.34	
5817.00	31.400	221.000	5732.57	390.09	-276.16	-276.42	670615.40	518096.96	32°25'23.335"N	103°46'49.443"W	1.80	



Actual Wellpath Report

No. 4 AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	OXY Permian	Slot	No. 23 SHL
Area	Eddy County, NM	Well	No. 23
Field	(Lost Tank) Sec 4, T22S, R31E	Wellbore	No. 4 AWP
Facility	Lost Tank 4 Federal 23		

WELLPATH DATA (141 stations)												
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
5912.00	31.500	221.000	5813.62	439.65	-313.56	-308.94	670582.88	518059.55	32°25'22.967"N	103°46'49.825"W	0.11	
6006.00	31.700	221.600	5893.68	488.90	-350.57	-341.45	670550.37	518022.55	32°25'22.602"N	103°46'50.207"W	0.40	
6101.00	32.200	221.600	5974.29	539.17	-388.16	-374.82	670517.00	517984.96	32°25'22.232"N	103°46'50.598"W	0.53	
6196.00	32.500	221.700	6054.54	590.01	-426.14	-408.61	670483.22	517946.98	32°25'21.858"N	103°46'50.995"W	0.32	
6290.00	32.800	220.400	6133.69	640.71	-464.39	-441.91	670449.92	517908.74	32°25'21.481"N	103°46'51.385"W	0.81	
6385.00	32.200	220.300	6213.81	691.74	-503.29	-474.96	670416.87	517869.84	32°25'21.098"N	103°46'51.773"W	0.63	
6479.00	31.200	219.700	6293.79	741.11	-541.12	-506.71	670385.12	517832.01	32°25'20.725"N	103°46'52.146"W	1.12	
6574.00	31.700	220.500	6374.83	790.66	-579.03	-538.64	670353.20	517794.10	32°25'20.352"N	103°46'52.521"W	0.69	
6668.00	31.500	221.100	6454.89	839.90	-616.32	-570.82	670321.01	517756.82	32°25'19.984"N	103°46'52.898"W	0.40	
6763.00	30.700	221.300	6536.24	888.97	-653.24	-603.14	670288.69	517719.90	32°25'19.621"N	103°46'53.278"W	0.85	
6857.00	30.600	220.000	6617.11	936.88	-689.60	-634.36	670257.48	517683.54	32°25'19.263"N	103°46'53.644"W	0.71	
6952.00	30.100	222.400	6699.09	984.87	-725.71	-665.96	670225.88	517647.43	32°25'18.907"N	103°46'54.015"W	1.38	
7047.00	29.500	222.800	6781.53	1032.08	-760.47	-697.92	670193.92	517612.68	32°25'18.565"N	103°46'54.390"W	0.67	
7141.00	29.800	223.800	6863.22	1078.56	-794.31	-729.81	670162.03	517578.84	32°25'18.231"N	103°46'54.764"W	0.62	
7236.00	30.500	219.400	6945.38	1126.25	-829.98	-761.46	670130.39	517543.17	32°25'17.880"N	103°46'55.135"W	2.44	
7330.00	30.400	219.900	7026.41	1173.85	-866.66	-791.85	670099.99	517506.49	32°25'17.519"N	103°46'55.492"W	0.29	
7425.00	30.100	220.200	7108.48	1221.69	-903.29	-822.65	670069.20	517469.86	32°25'17.158"N	103°46'55.853"W	0.35	
7520.00	30.300	220.800	7190.58	1269.47	-939.63	-853.68	670038.17	517433.53	32°25'16.800"N	103°46'56.218"W	0.38	
7614.00	30.000	220.500	7271.87	1316.67	-975.45	-884.44	670007.41	517397.71	32°25'16.447"N	103°46'56.579"W	0.36	
7709.00	30.400	220.500	7353.97	1364.45	-1011.79	-915.48	669976.38	517361.37	32°25'16.089"N	103°46'56.943"W	0.42	
7803.00	30.700	221.200	7434.92	1412.22	-1047.93	-946.73	669945.13	517325.24	32°25'15.733"N	103°46'57.310"W	0.50	
7898.00	30.300	221.900	7516.78	1460.43	-1084.01	-978.71	669913.15	517289.15	32°25'15.377"N	103°46'57.685"W	0.56	
7992.00	30.100	222.200	7598.02	1507.72	-1119.12	-1010.38	669881.48	517254.04	32°25'15.032"N	103°46'58.056"W	0.27	
8087.00	30.300	222.400	7680.13	1555.50	-1154.47	-1042.54	669849.33	517218.70	32°25'14.683"N	103°46'58.434"W	0.24	
8182.00	30.100	220.300	7762.23	1603.28	-1190.33	-1074.10	669817.76	517182.84	32°25'14.330"N	103°46'58.804"W	1.13	
8276.00	30.500	219.900	7843.39	1650.69	-1226.61	-1104.65	669787.21	517146.56	32°25'13.973"N	103°46'59.163"W	0.48	
8371.00	29.600	221.100	7925.62	1698.24	-1262.79	-1135.54	669756.33	517110.39	32°25'13.616"N	103°46'59.525"W	1.14	
8465.00	28.300	221.700	8007.88	1743.74	-1296.92	-1165.63	669726.24	517076.26	32°25'13.280"N	103°46'59.878"W	1.42	
8560.00	27.500	221.700	8091.83	1788.20	-1330.11	-1195.20	669696.67	517043.07	32°25'12.953"N	103°47'00.225"W	0.84	
8655.00	26.800	218.400	8176.37	1831.51	-1363.27	-1223.09	669668.78	517009.91	32°25'12.627"N	103°47'00.552"W	1.75	



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REFERENCE WELLPATH IDENTIFICATION			
Operator	OXY Permian	Slot	No. 23 SHL
Area	Eddy County, NM	Well	No. 23
Field	(Lost Tank) Sec 4, T22S, R31E	Wellbore	No. 4 AWP
Facility	Lost Tank 4 Federal 23		

WELLPATH DATA (141 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
8750.00	24.900	217.900	8261.86	1872.85	-1395.84	-1248.68	669643.19	516977.34	32°25'12.306"N	103°47'00.853"W	2.01	
8844.00	27.100	218.400	8346.34	1913.97	-1428.24	-1274.14	669617.73	516944.95	32°25'11.986"N	103°47'01.152"W	2.35	
8939.00	27.900	221.700	8430.61	1957.81	-1461.79	-1302.37	669589.51	516911.39	32°25'11.656"N	103°47'01.483"W	1.81	
9034.00	33.000	221.600	8512.48	2005.94	-1497.76	-1334.35	669557.53	516875.43	32°25'11.301"N	103°47'01.858"W	5.37	
9128.00	32.000	221.900	8591.76	2056.44	-1535.44	-1367.98	669523.90	516837.75	32°25'10.930"N	103°47'02.253"W	1.08	
9223.00	31.500	222.300	8672.54	2106.43	-1572.53	-1401.50	669490.39	516800.66	32°25'10.565"N	103°47'02.646"W	0.57	
9318.00	31.000	221.600	8753.76	2155.71	-1609.18	-1434.44	669457.44	516764.01	32°25'10.204"N	103°47'03.033"W	0.65	
9412.00	30.800	222.000	8834.42	2203.98	-1645.17	-1466.62	669425.27	516728.03	32°25'09.850"N	103°47'03.410"W	0.30	
9509.00	30.800	221.800	8917.74	2253.65	-1682.14	-1499.79	669392.10	516691.06	32°25'09.485"N	103°47'03.799"W	0.11	
9603.00	30.500	221.000	8998.61	2301.57	-1718.08	-1531.48	669360.41	516655.12	32°25'09.131"N	103°47'04.171"W	0.54	
9698.00	29.900	219.900	9080.71	2349.34	-1754.44	-1562.48	669329.41	516618.76	32°25'08.773"N	103°47'04.535"W	0.86	
9792.00	31.500	220.900	9161.54	2397.32	-1790.98	-1593.59	669298.30	516582.23	32°25'08.413"N	103°47'04.900"W	1.79	
9887.00	31.100	221.500	9242.71	2446.67	-1828.12	-1626.10	669265.80	516545.09	32°25'08.047"N	103°47'05.281"W	0.53	
9982.00	29.100	220.700	9324.89	2494.31	-1864.01	-1657.42	669234.47	516509.20	32°25'07.694"N	103°47'05.649"W	2.15	
10076.00	31.100	219.800	9406.22	2541.43	-1899.99	-1687.87	669204.03	516473.22	32°25'07.339"N	103°47'06.006"W	2.18	
10171.00	31.400	218.800	9487.43	2590.67	-1938.13	-1719.09	669172.82	516435.08	32°25'06.963"N	103°47'06.373"W	0.63	
10266.00	30.200	219.400	9569.03	2639.26	-1975.88	-1749.76	669142.14	516397.33	32°25'06.591"N	103°47'06.733"W	1.30	
10360.00	29.400	221.000	9650.60	2685.95	-2011.57	-1779.90	669112.00	516361.65	32°25'06.240"N	103°47'07.087"W	1.20	
10455.00	32.500	220.000	9732.07	2734.79	-2048.72	-1811.62	669080.29	516324.50	32°25'05.874"N	103°47'07.459"W	3.31	
10549.00	33.100	219.600	9811.08	2785.68	-2087.85	-1844.21	669047.70	516285.38	32°25'05.488"N	103°47'07.841"W	0.68	
10644.00	30.900	220.300	9891.64	2836.00	-2126.44	-1876.52	669015.39	516246.78	32°25'05.108"N	103°47'08.221"W	2.35	
10739.00	31.600	220.300	9972.86	2885.26	-2164.03	-1908.40	668983.51	516209.20	32°25'04.738"N	103°47'08.595"W	0.74	
10833.00	31.000	220.000	10053.18	2934.08	-2201.36	-1939.89	668952.03	516171.88	32°25'04.370"N	103°47'08.964"W	0.66	
10933.00	28.600	221.400	10157.30	2993.70	-2246.58	-1978.75	668913.16	516126.65	32°25'03.925"N	103°47'09.420"W	2.08	
11048.00	31.300	219.500	10239.61	3041.10	-2282.68	-2009.49	668882.43	516090.55	32°25'03.569"N	103°47'09.781"W	3.01	
11142.00	30.600	219.500	10320.22	3089.41	-2319.99	-2040.24	668851.68	516053.25	32°25'03.201"N	103°47'10.142"W	0.74	
11237.00	29.900	220.200	10402.29	3137.24	-2356.73	-2070.91	668821.02	516016.51	32°25'02.839"N	103°47'10.502"W	0.83	
11331.00	30.100	219.100	10483.70	3184.21	-2392.92	-2100.89	668791.03	515980.32	32°25'02.483"N	103°47'10.854"W	0.62	
11426.00	28.200	219.200	10566.66	3230.43	-2428.80	-2130.11	668761.82	515944.44	32°25'02.129"N	103°47'11.197"W	2.00	
11521.00	26.800	221.900	10650.93	3274.28	-2462.14	-2158.60	668733.33	515911.11	32°25'01.801"N	103°47'11.531"W	1.97	



Actual Wellpath Report

No. 4 AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	OXY Permian	Slot	No. 23 SHL
Area	Eddy County, NM	Well	No. 23
Field	(Lost Tank) Sec 4, T22S, R31E	Wellbore	No. 4 AWP
Facility	Lost Tank 4 Federal 23		

WELLPATH DATA (141 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
11615.00	27.200	223.500	10734.68	3316.94	-2493.50	-2187.54	668704.39	515879.75	32°25'01.492"N	103°47'11.870"W	0.88	
11710.00	28.000	223.300	10818.87	3360.94	-2525.48	-2217.78	668674.15	515847.77	32°25'01.177"N	103°47'12.225"W	0.85	
11805.00	29.000	225.500	10902.36	3406.21	-2557.85	-2249.50	668642.43	515815.40	32°25'00.858"N	103°47'12.597"W	1.53	
11899.00	29.800	226.400	10984.25	3452.23	-2589.93	-2282.67	668609.27	515783.33	32°25'00.542"N	103°47'12.986"W	0.97	
11994.00	31.300	226.900	11066.06	3500.34	-2623.07	-2317.78	668574.15	515750.18	32°25'00.216"N	103°47'13.398"W	1.60	
12089.00	32.300	226.700	11146.80	3550.20	-2657.34	-2354.28	668537.66	515715.92	32°24'59.879"N	103°47'13.825"W	1.06	
12183.00	31.600	226.400	11226.56	3599.77	-2691.55	-2390.39	668501.55	515681.71	32°24'59.542"N	103°47'14.249"W	0.76	
12278.00	31.200	226.500	11307.65	3649.10	-2725.65	-2426.26	668465.68	515647.61	32°24'59.207"N	103°47'14.669"W	0.42	
12357.00	31.500	225.800	11375.12	3690.07	-2754.12	-2455.90	668436.05	515619.14	32°24'58.927"N	103°47'15.016"W	0.60	
12449.00	31.800	226.200	11453.43	3738.22	-2787.66	-2490.63	668401.32	515585.61	32°24'58.596"N	103°47'15.424"W	0.40	
12544.00	31.400	226.800	11534.35	3787.82	-2821.92	-2526.73	668365.22	515551.34	32°24'58.259"N	103°47'15.847"W	0.54	
12639.00	31.000	225.700	11615.61	3836.88	-2855.95	-2562.28	668329.67	515517.32	32°24'57.924"N	103°47'16.263"W	0.73	
12693.00	30.600	225.200	11661.99	3864.47	-2875.35	-2581.99	668309.97	515497.92	32°24'57.733"N	103°47'16.494"W	0.88	
12788.00	30.900	220.500	11743.65	3913.00	-2910.94	-2614.99	668276.96	515462.33	32°24'57.383"N	103°47'16.882"W	2.55	
12882.00	32.900	217.400	11823.45	3962.60	-2949.58	-2646.18	668245.78	515423.69	32°24'57.002"N	103°47'17.248"W	2.75	
12977.00	32.800	217.900	11903.26	4014.00	-2990.38	-2677.66	668214.30	515382.90	32°24'56.600"N	103°47'17.617"W	0.30	
13073.00	31.700	219.400	11984.45	4065.15	-3030.39	-2709.64	668182.32	515342.89	32°24'56.206"N	103°47'17.993"W	1.42	
13168.00	30.400	219.500	12065.84	4114.10	-3068.23	-2740.77	668151.19	515305.05	32°24'55.833"N	103°47'18.358"W	1.37	
13262.00	29.600	220.500	12147.24	4161.08	-3104.23	-2770.98	668120.99	515269.05	32°24'55.478"N	103°47'18.713"W	1.00	
13415.00	26.500	221.300	12282.26	4233.01	-3158.62	-2818.06	668073.91	515214.66	32°24'54.942"N	103°47'19.265"W	2.04	
13465.00	26.500	221.300	12327.00	4255.32	-3175.39	-2832.78	668059.18	515197.90	32°24'54.777"N	103°47'19.438"W	0.00	Proj to bit

WELLPATH COMPOSITION - Ref Wellbore: No. 4 AWP, Ref Wellpath: No. 4 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	4137.00	ISCWSA MWD, Rev. 2 (Standard)	MWD Surveys <160-4137>	No. 4 AWP
4137.00	13415.00	NaviTrak (Standard)	BHI / Navitrak MWD <4170-13415>	No. 4 AWP
13415.00	13465.00	Blind Drilling (std)	Projection to bit	No. 4 AWP