

SUR: M-9-15s-31e, 950/S & 200/W
 BHL: P-9-15s-31e, 410/S & 4894/W
 API # 30-005-29110



Yates Petroleum Corporation

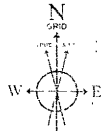
Location: Chavez County, NM
 Field: (Vespa) Sec 9, T15S, R31E
 Facility: Vespa BME Fed Com No. 2H

Slot: No. 2H SHL
 Well: No. 2H
 Wellbore: No. 2H PWB

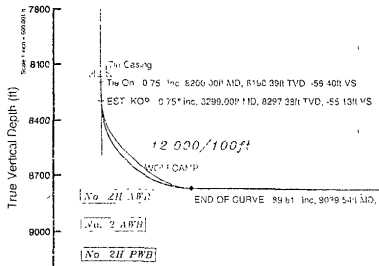
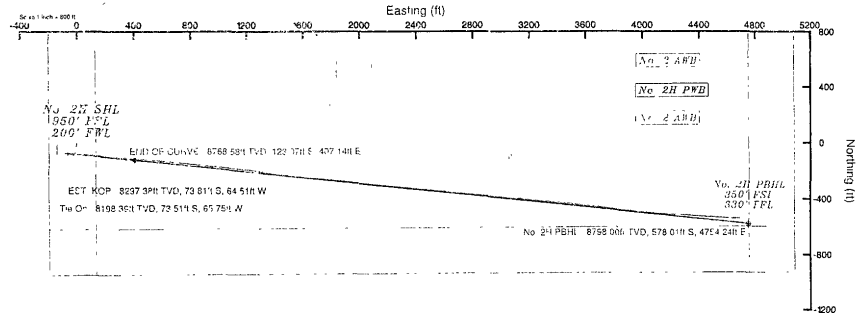


Well Profile Data

Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On:	8200.00	0.750	112.490	8198.39	-73.51	-65.75	0.00	-56.40
EST KOP:	7239.00	0.750	95.000	8297.50	-73.51	-64.51	0.23	-55.13
END OF CURVE:	9038.54	89.614	85.974	8758.58	-123.07	-407.14	12.00	-419.02
No. 2H PBHL:	13410.48	89.614	65.974	8738.00	-578.01	4754.24	0.00	-4789.25



BIGGM (1943.0 to 2011.0) Dip: 60.94° Field: 49282.3 nT
 Magnetic North is 5.01 degrees East of True North (at 11/11/2009)
 Grid North is 0.27 degrees East of True North
 To correct azimuth from True to Grid subtract 0.27 degrees
 To convert azimuth from Magnetic to Grid add 7.74 degrees
 For example: If the Magnetic Azimuth = 50 degrees, then the Grid North Azimuth = 50 + 7.74 = 57.74



Plot reference wellpath is Plan #3 Vs Actual <FINAL>

True vertical depths are referenced to Point #5 on No. 2H SHL (RT)	Grid System: NAD83 / TM New Mexico State Planes, Eastern Zone (5001), U.S. feet
Measured depths are referenced to Point #5 on No. 2H SHL (RT)	North Reference: Grid north
Point #5 on No. 2H SHL (RT) to Mean Sea Level: 4459.5 feet	Scale: True distance
Mean Sea Level to Mud line (Facility: Vespa BME Fed Com No. 2H): -4430 feet	Depths are in feet
Coordinates are in feet referenced to Facility Center	Created by Victor Hernandez on 1/4/2010

END OF CURVE: 89.61° Inc, 8079.54 ft MD, 8745.58 ft TVD, 419.02 ft VS
 No. 2H PBHL: 89.61° Inc, 13410.48 ft MD, 8738.00 ft TVD, 4789.25 ft VS

Vertical Section (ft)
 Azimuth 96.23° with reference 0.00 N, 0.00 E

Scale: 1 inch = 600 ft



Actual Wellpath Report

No. 2H AWP

Page 1 of 8

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HOBBSOCO



BAKER
HUGHES

INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	Yates Petroleum Corporation	Slot	No. 2H SHL
Area	Chaves County, NM	Well	No. 2H
Field	(Vespa) Sec 9, T15S, R31E	Wellbore	No. 2H AWB
Facility	Vespa BME Fed Com No. 2H	Sidetrack from	No. 2 AWB at 8200.00 MD

REPORT SETUP INFORMATION

Projection System	NAD83 / TM New Mexico State Planes, Eastern Zone (3001), US feet	Software System	WellArchitect® 2.0
North Reference	Grid	User	Victor Hernandez
Scale	0.999936	Report Generated	1/4/2010 at 8:50:55 AM
Convergence at slot	0.27° East	Database/Source file	WA_Midland/No. 2H_AWB.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[USft]	Northing[USft]	Latitude	Longitude
Slot Location	0.00	0.00	694142.20	737264.09	33°01'32.668"N	103°50'05.166"W
Facility Reference Pt			694142.20	737264.09	33°01'32.668"N	103°50'05.166"W
Field Reference Pt			694142.20	737264.09	33°01'32.668"N	103°50'05.166"W

WELLPATH DATUM

Calculation method	Minimum curvature	Patriot #5 on No. 2H SHL (RT) to Facility Vertical Datum	26.50ft
Horizontal Reference Pt	Facility Center	Patriot #5 on No. 2H SHL (RT) to Mean Sea Level	4456.50ft
Vertical Reference Pt	Patriot #5 on No. 2H SHL (RT)	Facility Vertical Datum to Mud Line (Facility)	0.00ft
MD Reference Pt	Patriot #5 on No. 2H SHL (RT)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	96.93°



Actual Wellpath Report

No. 2H AWP

Page 2 of 8



INTEQ

REFERENCE WELLPATH IDENTIFICATION			
Operator	Yates Petroleum Corporation	Slot	No. 2H SHL
Area	Chaves County, NM	Well	No. 2H
Field	(Vespa) Sec 9, T15S, R31E	Wellbore	No. 2H AWB
Facility	Vespa BME Fed Com No. 2H	Sidetrack from	No. 2 AWB at 8200.00 MD

WFLPATH DATA (178 stations)									
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	DLS [°/100ft]
0.00	0.000	223.200	0.00	0.00	0.00	0.00	694142.20	737264.09	0.00
200.00	0.250	223.200	200.00	-0.26	0.32	-0.30	694141.90	737263.77	0.12
400.00	1.000	178.210	399.99	-0.25	-2.38	-0.54	694141.66	737261.71	0.42
600.00	1.000	205.210	599.98	-0.53	-5.70	-1.23	694140.97	737258.39	0.23
800.00	1.250	194.220	799.97	-1.30	-9.46	-2.51	694139.69	737254.69	0.16
1000.00	1.250	193.230	999.87	-1.87	-12.64	-3.55	694138.65	737250.46	0.01
1200.00	2.000	189.230	1199.79	-2.25	-19.20	-4.61	694137.60	737244.89	0.38
1400.00	1.500	190.240	1399.70	-2.54	-25.23	-5.63	694136.57	737238.87	0.25
1600.00	1.250	190.240	1599.64	-2.82	-29.95	-6.48	694135.72	737234.14	0.12
1800.00	1.750	174.270	1799.57	-3.28	-35.93	-6.57	694133.67	737228.96	0.32
2000.00	2.000	188.270	1999.46	-1.69	-41.63	-6.76	694135.44	737222.47	0.26
2200.00	2.000	187.270	2199.34	-1.79	-48.54	-7.71	694134.49	737215.55	0.02
2400.00	1.250	175.290	2399.26	-1.37	-54.18	-7.97	694134.23	737209.92	0.41
2600.00	1.250	200.290	2599.21	-1.44	-58.40	-8.55	694133.65	737205.70	0.27
2800.00	2.000	200.290	2799.13	-2.75	-63.72	-10.53	694131.69	737200.38	0.37
3000.00	1.750	207.300	2999.03	-4.62	-69.70	-13.12	694129.08	737194.39	0.17
3200.00	2.000	192.300	3198.92	-6.01	-75.83	-15.27	694126.93	737188.27	0.27
3400.00	1.250	215.310	3398.84	-7.37	-81.02	-17.27	694124.93	737183.08	0.49
3600.00	1.250	225.320	3598.79	-9.76	-84.33	-20.09	694122.12	737179.76	0.11
3800.00	1.0750	264.330	3798.76	-12.39	-86.00	-22.94	694119.26	737178.10	0.41
4000.00	0.750	251.330	3998.75	-14.85	-86.54	-25.48	694116.72	737177.55	0.08
4200.00	0.500	267.340	4198.73	-16.89	-87.00	-27.59	694114.61	737177.09	0.15
4400.00	0.500	244.340	4398.73	-18.49	-87.42	-29.25	694112.95	737176.67	0.10
4600.00	0.500	320.350	4598.72	-19.86	-87.13	-30.60	694111.61	737176.97	0.31
4800.00	0.500	283.350	4798.71	-21.36	-86.25	-32.00	694110.20	737177.84	0.16
5000.00	0.750	297.360	4998.70	-23.45	-85.45	-34.01	694108.19	737178.64	0.15
5200.00	1.000	285.360	5198.68	-26.40	-84.39	-36.86	694105.34	737179.71	0.15
5400.00	1.250	300.370	5398.64	-30.13	-82.82	-40.42	694101.78	737181.27	0.19
5600.00	1.000	279.400	5598.60	-33.88	-81.43	-44.03	694098.18	737182.66	0.24
5800.00	1.000	279.400	5798.57	-37.36	-80.86	-47.47	694094.73	737183.23	0.00



Actual Wellpath Report

No. 2H AWP

Page 3 of 8



INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	Yates Petroleum Corporation	Slot	No. 2H SHL
Area	Chaves County, NM	Well	No. 2H
Field	(Vespa) Sec 9, T15S, R31E	Wellbore	No. 2H AWB
Facility	Vespa BME Fed Com No. 2H	Sidetrack from	No. 2 AWB at 8200.00 MD

WELLPATH DATA (178 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	DLS [°/100ft]
6000.00	0.500	312.400	5998.56	-39.82	-79.99	-49.84	694092.37	737184.10	0.32
6200.00	1.000	282.410	6198.54	-42.27	-79.03	-52.19	694090.02	737185.07	0.31
6400.00	0.750	318.420	6398.52	-44.98	-77.67	-54.76	694087.44	737186.42	0.30
6600.00	1.000	310.420	6598.49	-47.42	-75.56	-56.96	694085.25	737188.53	0.14
6800.00	0.000	230.430	6798.46	-50.62	-73.54	-60.00	694082.20	737189.98	0.26
7000.00	1.000	262.430	6998.43	-54.05	-74.03	-63.45	694078.76	737190.07	0.16
7200.00	0.750	294.430	7198.41	-56.99	-73.72	-66.37	694075.83	737190.38	0.27
7400.00	0.500	303.440	7398.40	-59.02	-72.68	-68.29	694073.91	737191.40	0.13
7600.00	0.250	65.440	7598.40	-59.43	-72.03	-68.62	694073.58	737192.06	0.33
7800.00	0.250	121.450	7798.40	-58.60	-72.08	-67.85	694074.59	737192.02	0.12
8000.00	0.250	143.450	7998.39	-57.96	-72.66	-67.22	694074.98	737191.44	0.05
8200.00	0.750	112.460	8198.39	-56.40	-73.51	-65.75	694076.45	737190.59	0.28
8291.00	1.500	110.400	8289.37	-54.67	-74.15	-64.08	694078.12	737189.94	0.83
8322.00	5.900	101.000	8320.30	-52.62	-74.60	-62.14	694080.07	737189.50	14.28
8354.00	11.200	91.300	8351.93	-47.94	-74.98	-57.41	694084.79	737189.11	17.11
8386.00	16.500	90.400	8382.99	-40.33	-75.08	-49.76	694092.45	737189.01	16.58
8418.00	22.000	93.300	8413.19	-29.83	-75.46	-39.22	694102.98	737188.64	17.44
8449.00	26.500	92.600	8441.45	-17.13	-76.11	-26.51	694115.69	737187.99	14.55
8481.00	30.600	92.800	8469.55	-1.88	-76.33	-11.23	694130.97	737187.26	12.82
8513.00	33.900	92.600	8496.61	15.15	-77.63	3.82	694148.02	737186.46	10.32
8545.00	36.500	93.300	8522.75	33.55	-78.59	24.24	694166.44	737185.51	8.22
8577.00	39.400	94.000	8547.99	53.19	-79.84	43.88	694186.07	737184.25	9.16
8608.00	42.500	94.400	8571.40	73.48	-81.33	64.14	694206.33	737182.76	10.04
8640.00	44.800	94.800	8594.55	95.55	-83.11	86.15	694228.35	737180.99	7.24
8671.00	46.800	95.000	8616.16	117.77	-85.20	108.27	694250.47	737178.89	7.02
8703.00	48.900	96.600	8637.63	141.49	-87.81	131.85	694274.04	737176.29	6.71
8735.00	51.100	96.300	8658.20	166.00	-90.56	156.21	694298.40	737173.54	6.91
8767.00	52.900	96.500	8677.90	191.21	-93.37	181.27	694323.46	737170.73	5.65
8798.00	55.800	97.300	8695.97	215.40	-96.40	206.27	694348.46	737167.70	9.59
8830.00	60.500	96.800	8712.90	240.52	-99.61	233.23	694375.41	737164.49	14.31



Actual Wellpath Report

No. 2H AWP

Page 4 of 8



INTEQ

REFERENCE WELLPATH IDENTIFICATION			
Operator	Yates Petroleum Corporation	Slor	No. 2H SHL
Area	Chaves County, NM	Well	No. 2H
Field	(Vespa) Sec 9, T15S, R31E	Wellbore	No. 2H AWP
Facility	Vespa BME Fed Com No. 2H	Sidetrack from	No. 2 AWP at 8200.00 MD

WELLPATH DATA (178 stations)									
MD [ft]	Inclination [°]	Azimuth [°]	TD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [srvt]	Grid North [srvt]	DLS [°/100ft]
8862.00	63.800	94.300	8727.90	271.79	-102.21	261.37	694403.55	737161.89	12.25
8894.00	66.400	93.400	8741.37	300.77	-104.16	290.33	694432.51	737159.94	8.52
8926.00	70.900	93.300	8753.01	330.51	-105.90	320.07	694462.25	737158.20	14.07
8958.00	77.400	95.600	8761.75	361.25	-108.47	350.74	694492.92	737155.83	21.36
8989.00	83.000	95.600	8766.78	391.83	-111.22	381.17	694523.35	737152.87	20.97
9021.00	89.900	95.100	8768.51	423.74	-114.20	412.97	694555.14	737149.90	18.81
9053.00	90.800	94.500	8768.32	455.71	-116.88	444.86	694587.05	737147.22	3.38
9085.00	90.700	94.400	8767.90	487.68	-119.36	476.76	694618.93	737144.74	30.44
9117.00	88.400	95.100	8768.15	519.65	-122.01	508.65	694650.81	737142.09	9.51
9148.00	87.400	95.500	8769.29	550.62	-124.87	539.49	694681.66	737139.33	9.47
9170.00	88.300	95.100	8770.11	572.60	-126.90	561.38	694703.55	737137.20	4.48
9181.00	89.000	95.900	8770.37	583.59	-127.96	572.33	694714.49	737136.14	9.66
9212.00	89.200	95.900	8770.86	614.58	-131.14	603.16	694745.32	737132.96	0.65
9244.00	89.400	95.900	8771.25	646.57	-134.43	634.99	694777.15	737129.67	0.62
9276.00	89.300	95.900	8771.61	678.56	-137.72	666.82	694808.97	737126.38	0.31
9308.00	89.300	95.800	8772.00	710.56	-140.98	698.65	694840.80	737123.12	0.31
9339.00	89.200	95.900	8772.41	741.55	-144.14	729.48	694871.64	737119.96	0.46
9371.00	89.100	96.200	8772.88	773.54	-147.51	761.30	694903.45	737116.59	0.99
9403.00	89.300	95.800	8773.33	805.53	-150.86	793.12	694935.27	737113.24	1.40
9434.00	89.900	96.000	8773.55	837.55	-154.05	823.96	694966.10	737110.05	2.04
9466.00	93.200	96.100	8773.52	868.52	-157.42	855.78	694997.92	737106.68	0.99
9498.00	90.100	96.000	8773.44	900.52	-160.79	887.60	695029.74	737103.31	0.44
9530.00	90.600	95.900	8773.24	932.51	-164.11	919.43	695061.57	737099.99	1.59
9562.00	90.600	96.100	8772.90	964.51	-167.45	951.25	695093.39	737096.65	0.62
9593.00	90.500	96.100	8772.66	996.50	-170.75	982.08	695124.21	737093.35	0.97
9625.00	90.300	96.000	8772.49	1027.50	-174.12	1013.90	695156.03	737089.98	0.31
9657.00	89.800	95.800	8772.47	1059.49	-177.41	1045.73	695187.86	737086.69	1.68
9689.00	88.900	95.800	8772.83	1091.49	-180.64	1077.56	695219.69	737083.46	2.81
9720.00	90.300	95.700	8773.05	1122.48	-183.75	1108.40	695250.53	737080.35	4.53
9752.00	90.100	95.800	8772.93	1154.47	-186.95	1140.24	695282.37	737077.15	4.70



Actual Wellpath Report

No. 2H AWP

Page 5 of 8



INTEQ

REFERENCE WELLPATH IDENTIFICATION			
Operator	Yates Petroleum Corporation	Slot	No. 2H SHL
Area	Chaves County, NM	Well	No. 2H
Field	(Vespa) Sec 9, T15S, R31E	Wellbore	No. 2H AWB
Facility	Vespa BME Fed Com No. 2H	Sidetrack from	No. 2 AWB at 8200.00 MD

WELLPATH DATA (178 stations)									
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	DLS [°/100ft]
9784.00	89.800	95.700	8772.96	1186.46	-190.16	1172.08	695314.20	737073.94	0.99
9816.00	89.700	95.800	8773.10	1218.46	-193.37	1203.92	695346.04	737070.74	0.44
9847.00	89.500	96.400	8773.29	1249.45	-196.66	1234.74	695376.86	737067.44	1.96
9879.00	89.500	98.800	8773.54	1281.45	-200.89	1266.46	695408.58	737063.21	7.51
9911.00	89.600	100.100	8773.79	1313.45	-205.15	1298.02	695440.14	737059.96	4.07
9943.00	89.800	101.700	8773.96	1345.34	-212.20	1329.44	695471.56	737051.91	5.04
9975.00	90.200	100.200	8773.96	1377.26	-218.27	1360.86	695502.57	737045.83	1.85
10007.00	90.500	99.900	8773.77	1409.21	-223.86	1392.37	695534.48	737040.25	3.33
10039.00	90.300	100.100	8773.54	1441.16	-229.42	1423.88	695565.39	737034.69	0.88
10071.00	90.500	99.300	8773.32	1473.12	-235.11	1455.42	695597.53	737029.30	2.58
10102.00	90.300	96.700	8773.10	1504.12	-239.12	1486.12	695628.22	737024.99	8.41
10134.00	90.400	94.800	8772.91	1536.11	-242.23	1517.96	695660.06	737021.78	5.95
10165.00	90.300	94.600	8772.72	1567.08	-244.87	1548.85	695690.95	737018.21	0.72
10196.00	90.300	94.400	8772.55	1598.05	-247.30	1579.76	695721.85	737016.81	0.65
10228.00	90.300	94.400	8772.39	1630.02	-249.55	1611.66	695753.75	737014.55	0.00
10260.00	90.300	94.200	8772.22	1661.99	-252.15	1643.57	695785.66	737011.95	0.62
10292.00	90.300	94.200	8772.05	1693.95	-254.50	1675.48	695817.57	737009.61	0.00
10324.00	90.300	94.000	8771.88	1725.91	-256.78	1707.40	695849.49	737007.32	0.62
10356.00	90.300	94.500	8771.72	1757.88	-259.16	1739.31	695881.40	737004.95	1.56
10388.00	90.500	94.500	8771.50	1788.85	-261.59	1770.22	695912.50	737002.52	0.65
10418.00	90.800	94.800	8771.15	1819.82	-264.10	1801.11	695943.19	737000.01	1.37
10450.00	90.800	96.100	8770.70	1851.81	-267.14	1832.96	695975.04	736996.97	4.06
10482.00	90.800	96.300	8770.26	1883.80	-270.60	1864.77	696006.85	736993.51	0.62
10514.00	90.400	96.200	8769.92	1915.80	-274.08	1896.58	696038.66	736990.03	1.29
10545.00	90.000	96.200	8769.73	1947.79	-277.43	1927.40	696069.47	736986.68	0.32
10577.00	90.200	96.100	8769.59	1978.79	-280.85	1959.21	696101.29	736983.25	0.44
10609.00	90.200	96.100	8769.48	2010.79	-284.26	1991.03	696133.10	736979.85	0.00
10640.00	90.000	96.300	8769.43	2041.78	-287.60	2021.85	696163.92	736976.51	0.91
10672.00	90.100	96.200	8769.40	2073.78	-291.09	2053.66	696195.73	736973.02	0.44
10704.00	90.200	96.100	8769.31	2105.78	-294.52	2085.48	696227.54	736969.59	0.44



Actual Wellpath Report

No. 2H AWP

Page 6 of 8



INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	Yates Petroleum Corporation	Slot	No. 2H SHL
Area	Chaves County, NM	Well	No. 2H
Field	(Vespa) Sec 9, T15S, R31E	Wellbore	No. 2H AWP
Facility	Vespa BME Fed Com No. 2H	Sidetrack from	No. 2 AWP at 8200.00 MD

WELLPATH DATA (178 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [srvt ft]	Grid North [srvt ft]	DLS [°/100ft]
10736.00	90.200	96.000	8769.20	2137.77	-297.89	2117.30	696259.36	736966.22	0.31
10768.00	90.200	96.000	8769.09	2169.77	-301.23	2149.12	696291.18	736962.88	0.00
10831.00	90.000	95.700	8768.98	2232.76	-307.65	2211.80	696353.85	736956.46	0.57
10895.00	89.800	95.500	8769.09	2296.74	-313.90	2275.49	696417.54	736950.21	0.44
10958.00	89.400	95.800	8769.53	2359.21	-320.10	2338.18	696480.21	736944.01	0.59
11022.00	89.750	95.600	8770.03	2423.71	-326.46	2401.85	696543.90	736937.65	0.56
11085.00	89.600	95.700	8770.42	2486.69	-332.66	2464.56	696606.59	736931.45	0.22
11149.00	89.500	95.700	8770.92	2550.57	-339.02	2528.24	696670.27	736925.10	0.16
11212.00	89.600	95.500	8771.42	2613.65	-345.16	2590.94	696732.96	736918.95	0.35
11276.00	89.500	95.800	8771.92	2677.64	-351.46	2654.62	696796.65	736912.65	0.39
11339.00	89.600	96.000	8772.41	2740.62	-357.94	2717.29	696859.31	736906.17	0.35
11402.00	89.600	95.700	8772.85	2803.61	-364.36	2779.96	696921.97	736899.75	0.48
11465.00	89.100	95.800	8773.57	2866.59	-370.67	2842.64	696984.65	736893.44	0.81
11529.00	89.200	95.700	8774.52	2930.57	-377.08	2906.31	697048.31	736887.03	0.22
11593.00	89.200	95.600	8775.41	2994.55	-383.58	2969.99	697111.99	736880.73	0.36
11657.00	89.400	95.400	8776.19	3058.53	-389.52	3033.69	697175.69	736874.60	0.44
11720.00	88.800	95.600	8777.18	3121.50	-395.56	3096.39	697238.39	736868.56	1.00
11784.00	88.600	95.600	8778.64	3185.46	-401.80	3160.07	697302.06	736862.32	0.31
11848.00	88.700	95.600	8780.14	3249.43	-408.04	3223.75	697365.73	736856.07	0.16
11899.00	88.600	95.500	8780.87	3280.41	-411.04	3254.59	697396.58	736853.08	0.46
11911.00	88.500	95.800	8781.68	3312.39	-414.19	3286.43	697428.41	736849.93	0.99
11943.00	88.200	96.000	8782.60	3344.37	-417.48	3318.24	697460.23	736846.64	1.13
11974.00	88.000	95.900	8783.63	3375.35	-420.69	3349.06	697491.04	736843.43	0.72
12006.00	88.100	95.800	8784.72	3407.33	-423.95	3380.88	697522.85	736840.17	0.44
12038.00	88.200	95.700	8785.75	3439.31	-427.15	3412.70	697554.67	736836.96	0.44
12070.00	88.100	95.800	8786.79	3471.28	-430.36	3444.52	697586.49	736833.76	0.44
12102.00	87.800	95.800	8787.93	3503.25	-433.59	3476.34	697618.31	736830.53	0.94
12134.00	87.700	95.800	8789.19	3535.22	-436.82	3508.15	697650.12	736827.30	0.31
12166.00	88.000	96.300	8790.39	3567.20	-440.19	3539.95	697681.91	736823.93	1.82
12197.00	87.900	96.200	8791.50	3598.18	-443.56	3570.74	697712.71	736820.56	0.46



Actual Wellpath Report

No. 2H AWP

Page 7 of 8



INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	Yates Petroleum Corporation	Slot	No. 2H SHL
Area	Chaves County, NM	Well	No. 2H
Field	(Vespa) Sec 9, T15S, R31E	Wellbore	No. 2H AWB
Facility	Vespa BME Fed Com No. 2H	Sidetrack from	No. 2 AWB at 8200.00 MD

WELLPATH DATA (178 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	DLS [°/100ft]
12229.00	88.100	96.100	8792.61	3630.15	-446.99	3602.54	697744.50	736817.13	0.70
12261.00	88.500	96.000	8793.56	3662.13	-450.36	3634.35	697776.31	736813.76	1.29
12293.00	87.800	95.900	8794.60	3694.11	-453.68	3666.16	697808.12	736810.44	2.21
12327.00	87.200	96.600	8796.08	3728.08	-457.37	3699.92	697841.88	736806.75	2.71
12388.00	88.700	96.800	8798.26	3789.04	-464.49	3760.47	697902.42	736799.63	2.48
12451.00	89.600	96.900	8799.20	3852.03	-472.00	3823.01	697964.90	736792.12	1.44
12514.00	89.900	96.700	8799.47	3915.03	-479.46	3885.57	698027.51	736784.66	0.57
12578.00	89.900	96.500	8799.58	3979.03	-486.82	3949.14	698091.08	736777.31	0.31
12640.00	88.800	95.600	8800.29	4041.01	-493.35	4010.79	698152.72	736770.77	2.29
12704.00	89.500	94.900	8801.24	4104.98	-499.20	4074.50	698216.44	736764.92	1.55
12767.00	88.900	95.200	8802.12	4167.94	-504.75	4137.26	698279.19	736759.37	1.06
12799.00	87.900	95.300	8803.01	4199.91	-507.68	4169.12	698311.04	736756.45	3.14
12831.00	87.000	94.900	8804.43	4231.86	-510.52	4200.96	698342.88	736753.61	3.05
12865.00	85.900	92.600	8806.54	4265.74	-512.74	4234.82	698376.74	736751.39	7.49
12897.00	86.400	93.200	8808.97	4297.57	-514.35	4266.68	698408.00	736749.77	2.24
12929.00	86.100	93.900	8811.34	4329.43	-516.33	4298.53	698440.45	736747.80	3.09
12961.00	87.000	93.400	8813.26	4361.32	-518.36	4330.41	698472.32	736745.76	3.22
12992.00	88.400	93.800	8814.51	4392.24	-520.31	4361.32	698503.23	736743.82	4.70
13024.00	88.700	93.800	8815.32	4424.18	-522.42	4393.24	698535.15	736741.70	0.94
13055.00	88.900	93.800	8815.97	4455.13	-524.43	4424.17	698566.07	736739.64	0.65
13087.00	89.900	93.600	8816.30	4487.07	-526.55	4456.10	698598.00	736737.58	3.19
13119.00	90.600	94.100	8816.16	4519.03	-528.69	4488.03	698629.93	736735.43	2.69
13151.00	89.300	94.300	8816.27	4550.99	-531.04	4519.94	698661.84	736733.09	5.04
13183.00	88.600	93.300	8816.94	4582.93	-533.16	4551.86	698693.76	736730.97	3.37
13214.00	88.000	93.200	8817.84	4613.86	-534.91	4582.80	698724.69	736729.21	1.64
13246.00	88.400	92.700	8818.81	4645.77	-536.56	4614.74	698756.64	736727.56	1.82
13278.00	88.100	92.300	8819.79	4677.65	-537.96	4646.70	698788.59	736726.17	1.56
13325.00	88.100	92.300	8821.35	4724.48	-539.84	4693.63	698835.52	736724.28	0.00



Actual Wellpath Report

No. 2H AWP

Page 8 of 8



INTEQ

REFERENCE WELLPATH IDENTIFICATION			
Operator	Yates Petroleum Corporation	Slot	No. 2H SHL
Area	Chaves County, NM	Well	No. 2H
Field	(Vespa) Sec 9, T15S, R31E	Wellbore	No. 2H AWB
Facility	Vespa BME Fed Com No. 2H	Sidetrack from	No. 2 AWB at 8200.00 MD

TARGETS									
Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	Shape
No. 2H PBHL		8798.00	-578.01	4754.24	698896.13	736686.12	33°01'26.723"N	103°49'09.362"W	point

WELLPATH COMPOSITION					Ref Wellbore: No. 2H AWB	Ref Wellpath: No. 2H AWP
Start MD [ft]	End MD [ft]	Positional Uncertainty Model		Log Name/Comment		Wellbore
0.00	8200.00	Generic gyro - continuous (Standard)		Gyro		No. 2 AWB
8200.00	13278.00	NaviTrak (Standard)		MWD - <8291 - 13278>		No. 2H AWB
13278.00	13325.00	Blind Drilling (std)		Projection to bit		No. 2H AWB