

A small, low-resolution thumbnail image of a well log or data table. It appears to be a multi-column table with various data points, possibly including depth, time, and other well parameters. The text is illegible due to the small size.

## COPRC Dodo Canyon E-76

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### X. Bit record

# Bit Summary

## COPRC DODO CANYON E-76 65-10 126-45

API/UWI		Surface Legal Location		District	Field Name		License No.	Program	Well Type	Well Config	Orig KB/RT (m)	KB-Grd (m)								
300E7665-10126-45		E-76 65-10 126-45		NEW VENTURES	Canyon		EL 470	ILX	Appraisal	HORIZONTAL	273.40	5.20								
Bits																				
BHA No.	Bit Run	Size (mm)	Make		Model	SN	IADC Codes	TFA (incl Noz) (mm²)	Nozzles (mm)	Depth In (mKB)	Depth Out (mKB)	Drilled (m)	Drill Time (hr)	BHA ROP (m/hr)	WOB Max (daN)	WOB Min (daN)	Max RPM (rpm)	Min RPM (rpm)	Bit Dull	
1	1A	311.0	REED		J&L	B181332	—	722	15.9/15.9/15.9/12.7	0.00		603.00	603.00	50.00	12.1	17,000	3	120	100	1-2-NO-S-1-0-WT-TD
2	1	222.0	Ultrerra		616	21191	—	924	14.0/14.0/14.0/14.0/14.0/14.0	603.00	1,588.00	985.00	57.25	17.2	7,000	7,000	5,000	149	118	1-4-CT-G-3-0-WT-BHA
3	3	222.0	Smith		FH18B	RA3594	—	429	13.5/13.5/13.5	1,588.00	1,691.00	103.00	11.75	8.8	13,000	12,000	149	149	-----	
4	3rr	222.0	Smith		FH18B	RA3594	—	429	13.5/13.5/13.5	1,691.00	1,908.00	217.00	50.00	4.3	20,000	13,000	149	120	1-3-WT-S-1-CT-TD	
5	4	156.0	smith		613	jh8402	—	760	12.7/12.7/12.7/12.7/12.7/12.7	1,908.00	2,910.00	1,002.00	56.00	17.9	12,000	8,000	228	178	-----	

## COPRC Dodo Canyon E-76

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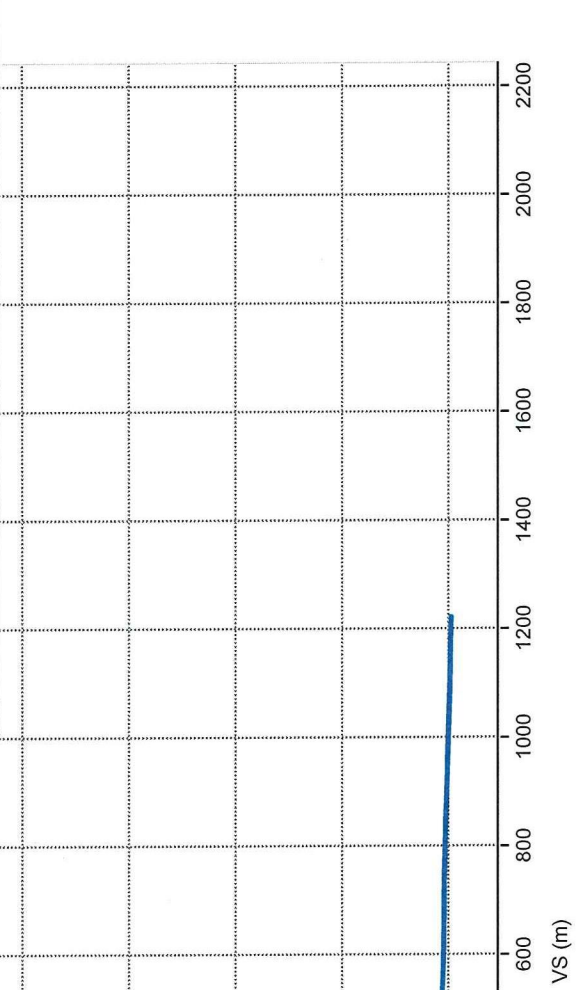
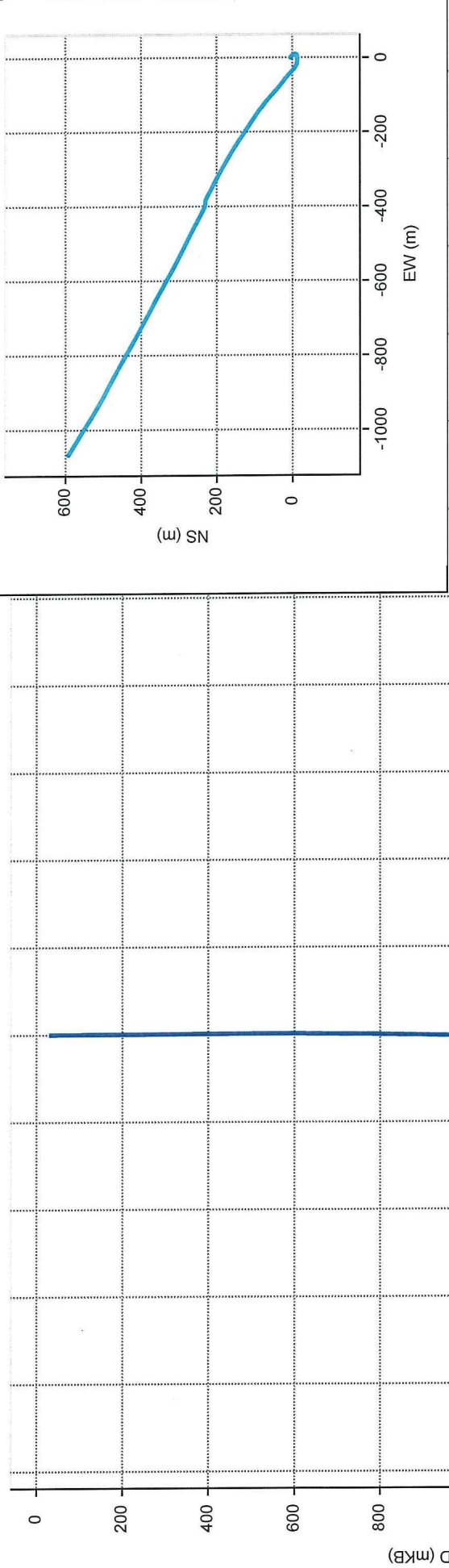
### **XI. Directional Summary**

# Directional Plot

## COPRC DODO CANYON E-76 65-10 126-45

API / UWI 300E7665-10126-45	Surface Legal Location E-76 65-10 126-45	District NEW VENTURES	Field Name Canyon	License No. EL 470	Program ILX	Well Type Appraisal	Well Config HORIZONTAL	Orig KBRT (m) 273.40	KB-Grd (m) 5.20
Kick Off Date	Kick Off Method Steerable Motor	Kick Off Depth (mKB)	Kick Off Depth (mKB)	MD Tie In (mKB)	TVD Tie In (mKB)	Azimuth Tie In (mKB)	NS Tie In (m)	EW Tie In (m)	VS Tie In (m)

### Vertical Section





# Directional Survey

## CANYON E-76 65-10 126-45

UWI E7665-10126-45	Surface Legal Location E-76 65-10 126-45	District NEW VENTURES	Field Name Canyon	License No. EL 470
Program ILX	Well Type Appraisal	Well Configuration Type HORIZONTAL	Original KB/RT Elevation (m) 273.40	KB-Ground Distance (m) 5.20
Wellbore Name Original Hole	Parent Wellbore Original Hole	Wellbore API/UWI	Job DRILLING ORIGINAL, 12/9/2013 00:00	
Kick Off Date	Kick Off Method Steerable Motor	Kick Off Depth (mKB)	Vertical Section Direction (°)	
Date 12/28/2013	Description Directional Survey from Tour Sheet Import	As Ran No	Proposed? No	
MD Tie In (mKB)	TVDTie In (mKB)	Inclination Tie In (°)	Azimuth Tie In (°)	NSTie In (m)
				EW Tie In (m)

Survey Data											
Date	MD (mKB)	Incl (°)	Azm (°)	TVD (mKB)	Depart (m)	VS (m)	NS (m)	EW (m)	DLS (°/30m)	Method	Survey Company
12/28/2013	29.00	0.40	0.00	29.00	0.10	0.05	0.10	0.00	0.41	WIRELINE	
12/28/2013	62.00	0.50	0.00	62.00	0.36	0.17	0.36	0.00	0.09	WIRELINE	
12/28/2013	90.00	0.20	0.00	90.00	0.53	0.26	0.53	0.00	0.32	WIRELINE	
12/28/2013	118.00	0.20	0.00	118.00	0.63	0.31	0.63	0.00	0.00	WIRELINE	
12/28/2013	147.00	0.10	0.00	147.00	0.71	0.34	0.71	0.00	0.10	WIRELINE	
12/28/2013	157.00	0.10	0.00	157.00	0.72	0.35	0.72	0.00	0.00	WIRELINE	
12/30/2013	183.00	0.20	0.00	183.00	0.79	0.38	0.79	0.00	0.12	WIRELINE	
12/30/2013	211.00	0.30	0.00	211.00	0.91	0.44	0.91	0.00	0.11	WIRELINE	
12/31/2013	240.00	0.50	0.00	240.00	1.12	0.54	1.12	0.00	0.21	WIRELINE	
12/31/2013	269.00	0.80	0.00	268.99	1.44	0.70	1.44	0.00	0.31	WIRELINE	
12/31/2013	306.00	1.00	0.00	305.99	2.03	0.98	2.03	0.00	0.16	WIRELINE	
12/31/2013	348.00	0.90	0.00	347.98	2.72	1.32	2.72	0.00	0.07	WIRELINE	
12/31/2013	378.00	0.40	0.00	377.98	3.06	1.49	3.06	0.00	0.50	WIRELINE	
1/1/2014	396.00	0.60	0.00	395.98	3.22	1.56	3.22	0.00	0.33	WIRELINE	
1/1/2014	433.00	0.60	0.00	432.98	3.61	1.75	3.61	0.00	0.00	WIRELINE	
1/1/2014	461.00	0.60	0.00	460.98	3.90	1.89	3.90	0.00	0.00	WIRELINE	
1/1/2014	489.00	0.50	0.00	488.98	4.17	2.02	4.17	0.00	0.11	WIRELINE	
1/2/2014	508.00	0.70	0.00	507.98	4.37	2.12	4.37	0.00	0.32	WIRELINE	
1/2/2014	544.00	0.40	0.00	543.97	4.71	2.29	4.71	0.00	0.25	WIRELINE	
1/2/2014	571.00	0.50	0.00	570.97	4.93	2.39	4.93	0.00	0.11	WIRELINE	
1/6/2014	627.50	0.31	124.14	627.47	5.09	2.36	5.09	0.13	0.38	DIRECTIO NA	Pathfinder
1/6/2014	704.46	0.62	137.27	704.43	4.70	1.75	4.66	0.58	0.13	DIRECTIO NA	Pathfinder
1/7/2014	781.46	0.71	129.47	781.42	4.24	0.89	4.05	1.23	0.05	DIRECTIO NA	Pathfinder
1/7/2014	896.50	1.28	113.56	896.45	4.28	-1.09	3.09	2.96	0.16	DIRECTIO NA	Pathfinder
1/7/2014	970.50	0.88	151.56	970.43	4.58	-2.39	2.26	3.99	0.32	DIRECTIO NA	Pathfinder
1/7/2014	1,008.50	1.02	147.85	1,008.43	4.64	-2.93	1.71	4.31	0.12	DIRECTIO NA	Pathfinder
1/7/2014	1,046.85	1.19	133.05	1,046.77	4.92	-3.62	1.15	4.78	0.26	DIRECTIO NA	Pathfinder
1/7/2014	1,084.50	1.50	124.45	1,084.41	5.51	-4.49	0.61	5.47	0.29	DIRECTIO NA	Pathfinder
1/7/2014	1,122.50	1.10	145.78	1,122.40	6.09	-5.31	0.02	6.09	0.49	DIRECTIO NA	Pathfinder
1/8/2014	1,160.50	1.19	131.15	1,160.40	6.61	-6.02	-0.54	6.59	0.24	DIRECTIO NA	Pathfinder
1/8/2014	1,198.50	2.12	145.56	1,198.38	7.41	-7.04	-1.38	7.28	0.80	DIRECTIO NA	Pathfinder
1/8/2014	1,236.50	1.81	176.76	1,236.36	8.13	-7.99	-2.55	7.72	0.87	DIRECTIO NA	Pathfinder
1/8/2014	1,274.50	1.41	163.67	1,274.34	8.67	-8.64	-3.60	7.88	0.43	DIRECTIO NA	Pathfinder
1/8/2014	1,312.50	1.90	156.64	1,312.33	9.47	-9.47	-4.63	8.26	0.42	DIRECTIO NA	Pathfinder
1/8/2014	1,351.50	2.12	141.06	1,351.30	10.68	-10.65	-5.78	8.97	0.45	DIRECTIO NA	Pathfinder

## Directional Survey

### CANYON E-76 65-10 126-45

UWI E7665-10126-45	Surface Legal Location E-76 65-10 126-45	District NEW VENTURES	Field Name Canyon	License No. EL 470
Program ILX	Well Type Appraisal	Well Configuration Type HORIZONTAL	Original KB/RT Elevation (m) 273.40	KB-Ground Distance (m) 5.20

Survey Data											
Date	MD (mKB)	Incl (°)	Azm (°)	TVD (mKB)	Depart (m)	VS (m)	NS (m)	EW (m)	DLS (°/30m)	Method	Survey Company
1/8/2014	1,389.50	2.90	172.66	1,389.27	12.00	-11.87	-7.28	9.54	1.23	DIRECTIO NA	Pathfinder
1/8/2014	1,426.50	2.78	175.74	1,426.22	13.32	-12.92	-9.11	9.72	0.16	DIRECTIO NA	Pathfinder
1/8/2014	1,446.00	4.20	204.66	1,445.69	13.93	-13.23	-10.23	9.46	3.41	DIRECTIO NA	Pathfinder
1/8/2014	1,464.50	2.70	229.77	1,464.15	14.21	-13.13	-11.13	8.84	3.40	DIRECTIO NA	Pathfinder
1/8/2014	1,474.50	4.02	247.44	1,474.14	14.14	-12.83	-11.41	8.34	4.99	DIRECTIO NA	Pathfinder
1/8/2014	1,483.50	4.60	257.05	1,483.11	13.93	-12.37	-11.61	7.70	3.08	DIRECTIO NA	Pathfinder
1/8/2014	1,493.50	6.32	262.42	1,493.07	13.58	-11.63	-11.78	6.76	5.38	DIRECTIO NA	Pathfinder
1/9/2014	1,503.00	7.11	268.46	1,502.50	13.14	-10.70	-11.86	5.66	3.34	DIRECTIO NA	Pathfinder
1/9/2014	1,512.50	8.09	268.37	1,511.92	12.68	-9.62	-11.90	4.40	3.09	DIRECTIO NA	Pathfinder
1/9/2014	1,522.00	8.62	267.36	1,521.32	12.32	-8.44	-11.95	3.02	1.74	DIRECTIO NA	Pathfinder
1/9/2014	1,531.50	9.81	264.58	1,530.69	12.15	-7.16	-12.06	1.50	4.01	DIRECTIO NA	Pathfinder
1/9/2014	1,541.00	10.78	267.18	1,540.04	12.18	-5.74	-12.18	-0.19	3.40	DIRECTIO NA	Pathfinder
2014	1,550.50	11.62	269.47	1,549.36	12.40	-4.16	-12.23	-2.03	3.00	DIRECTIO NA	Pathfinder
1/9/2014	1,560.00	12.59	269.78	1,558.65	12.89	-2.42	-12.24	-4.03	3.07	DIRECTIO NA	Pathfinder
1/9/2014	1,569.50	14.41	271.28	1,567.89	13.72	-0.47	-12.22	-6.24	5.85	DIRECTIO NA	Pathfinder
1/9/2014	1,580.00	15.60	270.75	1,578.03	15.12	1.93	-12.17	-8.96	3.42	DIRECTIO NA	Pathfinder
1/10/2014	1,599.00	19.40	278.37	1,596.15	18.73	7.13	-11.68	-14.64	6.99	DIRECTIO NA	Pathfinder
1/10/2014	1,608.50	19.31	287.85	1,605.11	20.82	10.15	-10.97	-17.70	9.92	DIRECTIO NA	Pathfinder
1/10/2014	1,617.50	19.80	296.44	1,613.60	22.72	13.14	-9.83	-20.48	9.71	DIRECTIO NA	Pathfinder
1/10/2014	1,627.00	20.19	300.14	1,622.52	24.77	16.38	-8.29	-23.34	4.18	DIRECTIO NA	Pathfinder
1/10/2014	1,636.50	21.21	303.36	1,631.41	26.99	19.74	-6.52	-26.19	4.83	DIRECTIO NA	Pathfinder
1/10/2014	1,645.50	22.80	306.18	1,639.75	29.32	23.09	-4.60	-28.96	6.36	DIRECTIO NA	Pathfinder
1/10/2014	1,655.00	2.48	309.35	1,648.98	30.81	25.14	-3.37	-30.62	64.18	DIRECTIO NA	Pathfinder
1/10/2014	1,664.50	27.22	309.27	1,658.09	32.54	27.52	-1.84	-32.49	78.13	DIRECTIO NA	Pathfinder
1/11/2014	1,674.00	29.12	310.94	1,666.46	35.93	31.92	1.05	-35.92	6.50	DIRECTIO NA	Pathfinder
1/11/2014	1,683.50	31.20	312.66	1,674.67	39.70	36.57	4.23	-39.48	7.11	DIRECTIO NA	Pathfinder
1/11/2014	1,693.00	33.41	312.66	1,682.70	43.88	41.50	7.67	-43.21	6.98	DIRECTIO NA	Pathfinder
1/12/2014	1,702.50	36.10	310.68	1,690.51	48.58	46.79	11.27	-47.26	9.21	DIRECTIO NA	Pathfinder
1/12/2014	1,712.00	38.62	308.96	1,698.06	53.81	52.45	14.96	-51.68	8.61	DIRECTIO NA	Pathfinder
1/12/2014	1,721.50	41.71	305.96	1,705.32	59.55	58.51	18.68	-56.55	11.51	DIRECTIO NA	Pathfinder



# Directional Survey

## CANYON E-76 65-10 126-45

UWI E7665-10126-45	Surface Legal Location E-76 65-10 126-45	District NEW VENTURES	Field Name Canyon	License No. EL 470
Program ILX	Well Type Appraisal	Well Configuration Type HORIZONTAL	Original KB/RT Elevation (m) 273.40	KB-Ground Distance (m) 5.20

Survey Data											
Date	MD (mKB)	Incl (°)	Azm (°)	TVD (mKB)	Depart (m)	VS (m)	NS (m)	EW (m)	DLS (°/30m)	Method	Survey Company
1/13/2014	1,731.00	44.19	306.67	1,712.27	65.74	64.93	22.51	-61.76	7.98	DIRECTIO NA	Pathfinder
1/12/2014	1,759.50	50.91	309.66	1,731.50	85.95	85.67	35.52	-78.27	7.44	DIRECTIO NA	Pathfinder
1/12/2014	1,769.00	52.32	310.15	1,737.40	93.15	92.98	40.30	-83.98	4.61	DIRECTIO NA	Pathfinder
1/12/2014	1,778.50	55.50	312.17	1,742.99	100.56	100.49	45.35	-89.76	11.29	DIRECTIO NA	Pathfinder
1/12/2014	1,788.00	57.58	311.87	1,748.23	108.23	108.21	50.66	-95.64	6.62	DIRECTIO NA	Pathfinder
1/13/2014	1,797.50	60.41	310.28	1,753.12	116.17	116.17	56.00	-101.78	9.92	DIRECTIO NA	Pathfinder
1/13/2014	1,807.00	63.10	308.96	1,757.62	124.40	124.40	61.34	-108.23	9.25	DIRECTIO NA	Pathfinder
1/13/2014	1,816.50	66.10	308.78	1,761.69	132.88	132.85	66.72	-114.91	9.49	DIRECTIO NA	Pathfinder
1/13/2014	1,825.00	69.51	308.34	1,764.91	140.67	140.61	71.63	-121.06	12.12	DIRECTIO NA	Pathfinder
1/13/2014	1,835.00	73.49	307.55	1,768.08	150.07	149.98	77.46	-128.54	12.15	DIRECTIO NA	Pathfinder
1/13/2014	1,845.00	76.71	307.55	1,770.65	159.68	159.53	83.35	-136.20	9.66	DIRECTIO NA	Pathfinder
1/13/2014	1,854.50	79.10	305.56	1,772.64	168.93	168.74	88.88	-143.66	9.73	DIRECTIO NA	Pathfinder
1/13/2014	1,864.00	80.20	304.07	1,774.35	178.26	178.04	94.21	-151.33	5.79	DIRECTIO NA	Pathfinder
1/13/2014	1,873.50	82.02	303.67	1,775.81	187.64	187.39	99.44	-159.13	5.88	DIRECTIO NA	Pathfinder
1/14/2014	1,883.00	84.71	302.88	1,776.91	197.08	196.80	104.62	-167.02	8.85	DIRECTIO NA	Pathfinder
1/14/2014	1,889.50	86.61	302.26	1,777.40	203.56	203.27	108.11	-172.48	9.22	DIRECTIO NA	Pathfinder
1/17/2014	1,914.50	91.52	303.85	1,777.81	228.54	228.20	121.74	-193.42	6.19	DIRECTIO NA	Pathfinder
1/17/2014	1,924.00	91.60	302.88	1,777.55	238.04	237.67	126.96	-201.35	3.07	DIRECTIO NA	Pathfinder
1/17/2014	1,933.50	91.70	302.60	1,777.28	247.53	247.14	132.10	-209.34	0.94	DIRECTIO NA	Pathfinder
1/17/2014	1,943.00	91.60	303.40	1,777.01	257.03	256.61	137.27	-217.30	2.54	DIRECTIO NA	Pathfinder
1/17/2014	1,952.50	90.90	301.80	1,776.80	266.53	266.09	142.39	-225.30	5.51	DIRECTIO NA	Pathfinder
1/17/2014	1,962.00	91.00	303.30	1,776.64	276.02	275.57	147.50	-233.31	4.75	DIRECTIO NA	Pathfinder
1/17/2014	1,971.50	90.50	301.40	1,776.52	285.52	285.06	152.58	-241.34	6.20	DIRECTIO NA	Pathfinder
1/17/2014	1,981.00	90.70	300.90	1,776.42	295.02	294.55	157.49	-249.47	1.70	DIRECTIO NA	Pathfinder
1/17/2014	1,990.50	90.50	301.30	1,776.32	304.52	304.04	162.40	-257.60	1.41	DIRECTIO NA	Pathfinder
1/17/2014	2,000.00	89.70	300.30	1,776.30	314.02	313.54	167.27	-265.76	4.04	DIRECTIO NA	Pathfinder
1/17/2014	2,009.50	89.30	299.40	1,776.38	323.51	323.04	171.99	-274.00	3.11	DIRECTIO NA	Pathfinder
1/17/2014	2,019.00	88.30	300.00	1,776.58	333.00	332.53	176.70	-282.25	3.68	DIRECTIO NA	Pathfinder
1/17/2014	2,028.50	88.60	299.40	1,776.84	342.49	342.03	181.40	-290.50	2.12	DIRECTIO NA	Pathfinder
1/17/2014	2,038.00	88.50	298.50	1,777.08	351.97	351.53	186.00	-298.81	2.86	DIRECTIO NA	Pathfinder