



NM OIL CONSERVATION
ARTESIA DISTRICT

JAN 16 2018

Apache Corporation

Eddy County, NM (NAD27 NME)
Hawk Federal Com
#9H

OH / Job #1610024

RECEIVED

*Name changed to
Cedar Lake CA Job 409H
30-D15-43520*

Design: Surveys (Capstar 114)

Standard Survey Report

19 January, 2016

Please provide signature
page for directional survey





Phoenix Technology Services LP Survey Report



Company:	Apache Corporation	Local Co-ordinate Reference:	Well #9H
Project:	Eddy County, NM (NAD27 NME)	TVD Reference:	KB @ 3967.00usft (Capstar 114)
Site:	Hawk Federal Com	MD Reference:	KB @ 3967.00usft (Capstar 114)
Well:	#9H	North Reference:	Grid
Wellbore:	OH / Job #1610024	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Capstar 114)	Database:	Compass 5000 GCR

Project	Eddy County, NM (NAD27 NME)		
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	Hawk Federal Com		
Site Position:	Northing:	678,926.80 usft	Latitude: 32° 51' 56.07367 N
From: Map	Easting:	643,794.70 usft	Longitude: 103° 51' 54.07565 W
Position Uncertainty:	0.00 usft	Slot Radius: 13-3/16 "	Grid Convergence: 0.25 °

Well	#9H		
Well Position	+N/-S	0.00 usft	Latitude: 32° 52' 3.68870 N
	+E/-W	0.00 usft	Longitude: 103° 52' 7.52019 W
Position Uncertainty	0.00 usft	Wellhead Elevation: 0.00 usft	Ground Level: 3,956.00 usft

Wellbore	OH / Job #1610024				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	12/31/2015	7.55	60.82	48,559

Design	Surveys (Capstar 114)				
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	279.41	

Survey Program	Date 1/19/2016		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name
100.00	5,035.00	Phoenix Gyro Surveys (OH / Job #161002	PHX_SPT_GTD
5,070.00	9,508.00	Phoenix MWD Surveys (OH / Job #16100:	PHX+MWD+HDGM
			Description
			PHX Continuous north-seeking gyro
			PHX+OWSG MWD + HDGM

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
100.00	0.92	63.75	100.00	0.36	0.72	-0.65	0.92	0.92	0.00
200.00	0.93	63.80	199.98	1.07	2.17	-1.96	0.01	0.01	0.05
300.00	1.14	76.82	299.97	1.65	3.86	-3.54	0.31	0.21	13.02
400.00	1.30	95.36	399.94	1.77	5.96	-5.59	0.42	0.16	18.54
500.00	1.33	106.79	499.92	1.33	8.20	-7.88	0.26	0.03	11.43
600.00	1.07	118.52	599.90	0.55	10.13	-9.91	0.36	-0.26	11.73
700.00	0.58	115.00	699.89	-0.11	11.41	-11.28	0.49	-0.49	-3.52
800.00	0.53	141.61	799.88	-0.68	12.16	-12.11	0.26	-0.05	26.61
900.00	0.46	190.36	899.88	-1.44	12.37	-12.44	0.41	-0.07	48.75



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Site: Hawk Federal Com
Well: #9H
Wellbore: OH / Job #1610024
Design: Surveys (Capstar 114)

Local Co-ordinate Reference: Well #9H
TVD Reference: KB @ 3967.00usft (Capstar 114)
MD Reference: KB @ 3967.00usft (Capstar 114)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Compass 5000 GCR

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)
1,000.00	0.30	168.66	999.88	-2.09	12.35	-12.53	0.21	-0.16	-21.70
1,100.00	0.27	100.29	1,099.87	-2.39	12.64	-12.86	0.32	-0.03	-68.37
1,200.00	0.23	347.36	1,199.87	-2.24	12.83	-13.02	0.42	-0.04	-112.93
1,300.00	0.23	90.64	1,299.87	-2.04	12.98	-13.14	0.36	0.00	103.28
1,400.00	0.36	19.42	1,399.87	-1.75	13.29	-13.39	0.36	0.13	-71.22
1,500.00	0.37	149.15	1,499.87	-1.73	13.56	-13.66	0.66	0.01	129.73
1,600.00	0.47	98.31	1,599.87	-2.07	14.13	-14.28	0.37	0.10	-50.84
1,700.00	0.53	350.38	1,699.87	-1.67	14.46	-14.54	0.81	0.06	-107.93
1,800.00	0.54	245.63	1,799.86	-1.41	13.95	-13.99	0.85	0.01	-104.75
1,900.00	0.54	9.19	1,899.86	-1.14	13.60	-13.60	0.95	0.00	123.56
2,000.00	0.51	15.29	1,999.86	-0.24	13.79	-13.64	0.06	-0.03	6.10
2,100.00	0.52	28.16	2,099.85	0.59	14.12	-13.84	0.12	0.01	12.87
2,200.00	0.37	335.96	2,199.85	1.28	14.20	-13.80	0.41	-0.15	-52.20
2,300.00	0.47	353.65	2,299.85	1.98	14.03	-13.51	0.16	0.10	17.69
2,400.00	0.39	305.35	2,399.85	2.59	13.70	-13.10	0.36	-0.08	-48.30
2,500.00	0.35	326.38	2,499.84	3.04	13.26	-12.58	0.14	-0.04	21.03
2,600.00	0.47	330.64	2,599.84	3.65	12.89	-12.12	0.12	0.12	4.26
2,700.00	0.44	320.10	2,699.84	4.30	12.44	-11.57	0.09	-0.03	-10.54
2,800.00	0.49	318.36	2,799.84	4.92	11.91	-10.94	0.05	0.05	-1.74
2,900.00	0.51	325.60	2,899.83	5.60	11.37	-10.30	0.07	0.02	7.24
3,000.00	0.52	324.53	2,999.83	6.34	10.86	-9.68	0.01	0.01	-1.07
3,100.00	0.55	348.42	3,099.82	7.18	10.50	-9.18	0.22	0.03	23.89
3,200.00	0.53	329.73	3,199.82	8.05	10.17	-8.72	0.18	-0.02	-18.69
3,300.00	0.56	65.36	3,299.82	8.65	10.38	-8.83	0.81	0.03	95.63
3,400.00	0.48	62.30	3,399.81	9.05	11.20	-9.57	0.08	-0.08	-3.06
3,500.00	0.63	333.32	3,499.81	9.74	11.32	-9.58	0.79	0.15	-88.98
3,600.00	0.64	324.11	3,599.80	10.68	10.75	-8.85	0.10	0.01	-9.21
3,700.00	0.77	325.09	3,699.79	11.68	10.03	-7.99	0.13	0.13	0.98
3,800.00	0.94	332.27	3,799.78	12.96	9.27	-7.02	0.20	0.17	7.18
3,900.00	1.12	325.71	3,899.77	14.49	8.34	-5.85	0.21	0.18	-6.56
4,000.00	1.15	322.23	3,999.75	16.10	7.17	-4.44	0.08	0.03	-3.48
4,100.00	1.25	327.57	4,099.73	17.81	5.97	-2.98	0.15	0.10	5.34
4,200.00	1.22	329.39	4,199.70	19.65	4.84	-1.57	0.05	-0.03	1.82
4,300.00	1.40	332.73	4,299.68	21.65	3.74	-0.15	0.20	0.18	3.34
4,400.00	1.21	331.31	4,399.65	23.66	2.67	1.23	0.19	-0.19	-1.42
4,500.00	1.11	338.83	4,499.63	25.49	1.82	2.37	0.18	-0.10	7.52
4,600.00	1.06	334.13	4,599.61	27.23	1.06	3.40	0.10	-0.05	-4.70
4,700.00	0.98	324.83	4,699.60	28.78	0.17	4.54	0.18	-0.08	-9.30
4,800.00	0.92	342.28	4,799.58	30.22	-0.57	5.50	0.29	-0.06	17.45
4,900.00	0.91	320.95	4,899.57	31.60	-1.31	6.46	0.34	-0.01	-21.33
5,000.00	0.94	305.17	4,999.56	32.69	-2.48	7.80	0.26	0.03	-15.78
5,035.00	0.99	309.87	5,034.55	33.05	-2.95	8.31	0.27	0.14	13.43

Tie In to Phoenix Gyro Surveys



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Survey Calculation Method: Minimum Curvature
Database: Compass 5000 GCR

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)
5,070.00	1.00	319.10	5,069.55	33.47	-3.38	8.81	0.46	0.03	26.37
First Phoenix MWD Survey									
5,113.00	2.90	318.90	5,112.52	34.58	-4.34	9.94	4.42	4.42	-0.47
5,155.00	8.10	317.30	5,154.31	37.56	-7.05	13.10	12.39	12.38	-3.81
5,198.00	14.50	317.00	5,196.46	43.73	-12.78	19.76	14.88	14.88	-0.70
5,241.00	20.80	320.20	5,237.41	53.54	-21.35	29.82	14.82	14.65	7.44
5,283.00	25.10	316.50	5,276.08	65.74	-32.26	42.57	10.79	10.24	-8.81
5,326.00	29.70	312.20	5,314.25	79.52	-46.44	58.81	11.64	10.70	-10.00
5,369.00	33.80	310.00	5,350.81	94.37	-63.50	78.07	9.91	9.53	-5.12
5,411.00	38.40	306.00	5,384.74	109.55	-83.02	99.81	12.30	10.95	-9.52
5,454.00	42.10	304.30	5,417.56	125.53	-105.74	124.84	8.98	8.60	-3.95
5,496.00	46.30	304.50	5,447.66	142.07	-129.89	151.37	10.01	10.00	0.48
5,539.00	50.50	304.40	5,476.20	160.26	-156.40	180.50	9.77	9.77	-0.23
5,582.00	53.60	304.50	5,502.64	179.44	-184.36	211.21	7.21	7.21	0.23
5,624.00	57.90	304.50	5,526.27	199.09	-212.96	242.65	10.24	10.24	0.00
5,667.00	63.40	303.50	5,547.34	220.04	-244.03	276.72	12.95	12.79	-2.33
5,710.00	68.10	303.10	5,565.00	241.55	-276.79	312.56	10.96	10.93	-0.93
5,752.00	72.80	302.70	5,579.05	263.04	-310.01	348.85	11.23	11.19	-0.95
5,795.00	78.20	302.40	5,589.81	285.43	-345.09	387.11	12.58	12.56	-0.70
5,837.00	83.20	303.00	5,596.60	307.82	-379.96	425.17	11.99	11.90	1.43
5,854.00	85.70	302.90	5,598.24	317.02	-394.15	440.68	14.72	14.71	-0.59
5,877.00	88.20	303.00	5,599.46	329.51	-413.42	461.74	10.88	10.87	0.43
5,920.00	91.30	303.50	5,598.65	353.09	-449.38	501.06	7.30	7.21	1.16
5,963.00	91.70	303.50	5,598.53	376.81	-485.22	540.30	0.93	0.93	0.00
6,005.00	91.20	302.40	5,597.46	399.65	-520.46	578.79	2.88	-1.19	-2.62
6,048.00	91.40	301.30	5,596.49	422.33	-556.97	618.53	2.60	0.47	-2.56
6,091.00	91.40	300.70	5,595.44	444.47	-593.82	658.50	1.39	0.00	-1.40
6,133.00	91.50	299.20	5,594.38	465.43	-630.20	697.82	3.58	0.24	-3.57
6,261.00	90.80	295.30	5,591.81	524.02	-743.95	819.61	3.09	-0.55	-3.05
6,389.00	89.30	292.50	5,591.69	575.87	-860.96	943.52	2.48	-1.17	-2.19
6,517.00	90.00	287.10	5,592.48	619.21	-981.34	1,069.38	4.25	0.55	-4.22
6,645.00	89.30	279.70	5,593.26	648.85	-1,105.77	1,196.97	5.81	-0.55	-5.78
6,773.00	88.50	275.20	5,595.72	665.44	-1,232.63	1,324.84	3.57	-0.63	-3.52
6,901.00	89.00	271.10	5,598.51	672.47	-1,360.38	1,452.02	3.23	0.39	-3.20
7,029.00	90.80	270.40	5,598.73	674.15	-1,488.36	1,578.55	1.51	1.41	-0.55
7,156.00	91.00	270.40	5,596.74	675.03	-1,615.34	1,703.97	0.16	0.16	0.00
7,284.00	91.40	271.00	5,594.06	676.60	-1,743.30	1,830.47	0.56	0.31	0.47
7,412.00	90.70	271.70	5,591.71	679.61	-1,871.24	1,957.18	0.77	-0.55	0.55
7,540.00	89.90	269.90	5,591.04	681.40	-1,999.22	2,083.73	1.54	-0.63	-1.41
7,668.00	89.30	270.70	5,591.94	682.07	-2,127.22	2,210.11	0.78	-0.47	0.63
7,795.00	90.70	270.00	5,591.94	682.85	-2,254.21	2,335.52	1.23	1.10	-0.55
7,923.00	90.60	270.00	5,590.48	682.85	-2,382.20	2,461.79	0.08	-0.08	0.00
8,051.00	90.90	270.10	5,588.81	682.96	-2,510.19	2,588.08	0.25	0.23	0.08
8,179.00	91.10	268.80	5,586.58	681.73	-2,638.16	2,714.13	1.03	0.16	-1.02



Phoenix Technology Services LP Survey Report



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Site: Hawk Federal Com
Well: #9H
Wellbore: OH / Job #1610024
Design: Surveys (Capstar 114)

Local Co-ordinate Reference: Well #9H
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MD Reference: KB @ 3967.00usft (Capstar 114)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Compass 5000 GCR

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)
8,308.00	92.90	269.00	5,582.07	679.25	-2,767.06	2,840.88	1.40	1.40	0.16
8,435.00	92.00	269.50	5,576.64	677.59	-2,893.93	2,965.77	0.81	-0.71	0.39
8,563.00	92.30	268.30	5,571.84	675.14	-3,021.81	3,091.53	0.97	0.23	-0.94
8,690.00	91.40	268.50	5,567.74	671.59	-3,148.69	3,216.13	0.73	-0.71	0.16
8,818.00	90.20	269.00	5,565.96	668.80	-3,276.65	3,341.90	1.02	-0.94	0.39
8,946.00	92.00	268.50	5,563.50	666.01	-3,404.59	3,467.67	1.46	1.41	-0.39
9,073.00	92.20	270.20	5,558.84	664.57	-3,531.49	3,592.63	1.35	0.16	1.34
9,201.00	91.30	269.70	5,554.93	664.46	-3,659.43	3,718.82	0.80	-0.70	-0.39
9,329.00	90.70	267.80	5,552.70	661.67	-3,787.37	3,844.59	1.56	-0.47	-1.48
9,434.00	90.20	268.70	5,551.88	658.46	-3,892.32	3,947.60	0.98	-0.48	0.86
Final Phoenix MWD Survey									
9,508.00	90.20	268.70	5,551.62	656.78	-3,966.30	4,020.31	0.00	0.00	0.00
Projection to TD									

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
5,035.00	5,034.55	33.05	-2.95	Tie In to Phoenix Gyro Surveys
5,070.00	5,069.55	33.47	-3.38	First Phoenix MWD Survey
9,434.00	5,551.88	658.46	-3,892.32	Final Phoenix MWD Survey
9,508.00	5,551.62	656.78	-3,966.30	Projection to TD



PHOENIX

TECHNOLOGY SERVICES

Job Number: 1610024
 Company: Apache
 Lease/Well: Hawk Federal Com #9H
 Location: Eddy County
 Rig Name: Capstar 114
 RKB:
 G.L. or M.S.L.:

State/Country: New Mexico
 Declination:
 Grid:
 File name: C:\WINSERVE\1610024.SVY
 Date/Time: 18-Jan-16 / 21:09
 Curve Name: Hawk Federal Com #9H - MWD Surveys

Hawk Federal Com #9H - MWD Surveys

WINSERVE SURVEY CALCULATIONS
 Minimum Curvature Method
 Vertical Section Plane 279.41
 Vertical Section Referenced to Wellhead
 Rectangular Coordinates Referenced to Wellhead

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
5035.00	.99	309.87	5034.55	33.05	-2.95	8.31	33.18	354.90	.00
5070.00	1.00	319.10	5069.54	33.47	-3.38	8.81	33.65	354.23	.46
5113.00	2.90	318.90	5112.52	34.58	-4.34	9.94	34.85	352.84	4.42
5155.00	8.10	317.30	5154.31	37.56	-7.05	13.10	38.21	349.37	12.39
5198.00	14.50	317.00	5196.45	43.73	-12.78	19.76	45.55	343.71	14.88
5241.00	20.80	320.20	5237.41	53.54	-21.35	29.81	57.64	338.26	14.82
5283.00	25.10	316.50	5276.08	65.74	-32.26	42.57	73.22	333.86	10.79
5326.00	29.70	312.20	5314.25	79.52	-46.44	58.81	92.08	329.71	11.64
5369.00	33.80	310.00	5350.81	94.37	-63.50	78.07	113.74	326.06	9.91
5411.00	38.40	306.00	5384.74	109.55	-83.01	99.81	137.45	322.85	12.30
5454.00	42.10	304.30	5417.55	125.53	-105.74	124.84	164.13	319.89	8.98
5496.00	46.30	304.50	5447.66	142.07	-129.89	151.37	192.50	317.56	10.01
5539.00	50.50	304.40	5476.20	160.26	-156.40	180.50	223.93	315.70	9.77
5582.00	53.60	304.50	5502.64	179.44	-184.36	211.21	257.26	314.23	7.21
5624.00	57.90	304.50	5526.27	199.09	-212.96	242.65	291.53	313.07	10.24
5667.00	63.40	303.50	5547.34	220.04	-244.03	276.72	328.58	312.04	12.95
5710.00	68.10	303.10	5565.00	241.55	-276.79	312.56	367.37	311.11	10.96
5752.00	72.80	302.70	5579.05	263.04	-310.01	348.84	406.57	310.31	11.23
5795.00	78.20	302.40	5589.81	285.43	-345.09	387.11	447.84	309.60	12.58
5837.00	83.20	303.00	5596.59	307.82	-379.95	425.17	489.00	309.01	11.99
5854.00	85.70	302.90	5598.24	317.02	-394.15	440.68	505.82	308.81	14.72
5877.00	88.20	303.00	5599.46	329.51	-413.42	461.74	528.68	308.56	10.88
5920.00	91.30	303.50	5599.65	353.09	-449.38	501.06	571.50	308.16	7.30
5963.00	91.70	303.50	5598.52	376.81	-485.22	540.30	614.35	307.83	.93
6005.00	91.20	302.40	5597.46	399.65	-520.46	578.79	656.20	307.52	2.88

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
6048.00	91.40	301.30	5596.49	422.33	-556.97	618.53	698.99	307.17	2.60
6091.00	91.40	300.70	5595.44	444.47	-593.82	658.50	741.74	306.81	1.39
6133.00	91.50	299.20	5594.37	465.43	-630.20	697.81	783.44	306.45	3.58
6261.00	90.80	295.30	5591.80	524.02	-743.95	819.61	909.97	305.16	3.09
6389.00	89.30	292.50	5591.69	575.87	-860.96	943.52	1035.79	303.78	2.48
6517.00	90.00	287.10	5592.47	619.21	-981.34	1069.38	1160.37	302.25	4.25
6645.00	89.30	279.70	5593.26	648.85	-1105.77	1196.97	1282.08	300.40	5.81
6773.00	88.50	275.20	5595.71	665.44	-1232.63	1324.84	1400.78	298.36	3.57
6901.00	89.00	271.10	5598.51	672.47	-1360.38	1452.02	1517.51	296.30	3.23
7029.00	90.80	270.40	5598.73	674.15	-1488.36	1578.55	1633.92	294.37	1.51
7156.00	91.00	270.40	5596.74	675.03	-1615.34	1703.97	1750.71	292.68	.16
7284.00	91.40	271.00	5594.06	676.60	-1743.30	1830.47	1870.00	291.21	.56
7412.00	90.70	271.70	5591.71	679.61	-1871.24	1957.18	1990.84	289.96	.77
7540.00	89.90	269.90	5591.04	681.40	-1999.22	2083.73	2112.16	288.82	1.54
7668.00	89.30	270.70	5591.93	682.07	-2127.22	2210.11	2233.89	287.78	.78
7795.00	90.70	270.00	5591.93	682.85	-2254.21	2335.52	2355.37	286.85	1.23
7923.00	90.60	270.00	5590.48	682.85	-2382.20	2461.79	2478.14	285.99	.08
8051.00	90.90	270.10	5588.81	682.96	-2510.19	2588.08	2601.44	285.22	.25
8179.00	91.10	268.80	5586.57	681.73	-2638.16	2714.12	2724.82	284.49	1.03
8308.00	92.90	269.00	5582.07	679.25	-2767.06	2840.88	2849.21	283.79	1.40
8435.00	92.00	269.50	5576.64	677.59	-2893.93	2965.77	2972.20	283.18	.81
8563.00	92.30	268.30	5571.84	675.14	-3021.81	3091.53	3096.31	282.59	.97
8690.00	91.40	268.50	5567.74	671.59	-3148.69	3216.13	3219.52	282.04	.73
8818.00	90.20	269.00	5565.95	668.80	-3276.65	3341.90	3344.21	281.54	1.02
8946.00	92.00	268.50	5563.50	666.01	-3404.59	3467.67	3469.12	281.07	1.46
9073.00	92.20	270.20	5558.84	664.57	-3531.49	3592.63	3593.48	280.66	1.35
9201.00	91.30	269.70	5554.93	664.46	-3659.43	3718.82	3719.26	280.29	.80
9329.00	90.70	267.80	5552.70	661.67	-3787.37	3844.59	3844.74	279.91	1.56
9434.00	90.20	268.70	5551.87	658.46	-3892.32	3947.60	3947.62	279.60	.98
TD									
9508.00	90.20	268.70	5551.62	656.78	-3966.30	4020.31	4020.31	279.40	.00