

SURVEY DATA CERTIFICATION



Job #: 10365939
Client: ConocoPhillips
County & State: Lea County, NM
Well: Red Hills West 16 State TC 12H
API No: 3002541706
Proposed Direction: 180.44

TIE-IN DATA

MD	TVD	INC	AZM	N/-S	E/-W	DATA SOURCE
927.00 ft	926.97 ft	1.30	199.50	-4.36	1.44	Gyro
Data Source Company:						Gyro Data

SURVEY DATA

First Survey Date	First Survey Depth	INC	AZM
6-Oct-14	1,037 ft	1.87°	218.35°

Last Survey Date	Last Survey Depth	INC	AZM
31-Oct-14	15,266 ft	93.24°	179.94°

Survey Instrument Type

Positive Pulse MWD

Projected TD Survey Date	Projected TD Survey Depth	INC	AZM
31-Oct-14	15,333 ft	93.24°	179.94°

CORRECTION INFORMATION

Magnetic Declination Used	7.39 degrees
Grid Convergence Used	0.35 degrees
Total Correction	7.04 degrees

Corrected to True/Grid North
Grid North

TO THE BEST OF MY KNOWLEDGE, I
CERTIFY THIS SURVEY DATA TO BE TRUE
AND CORRECT.

Signature

Date

Mary E. Mack
1/15/15

Mary E. Mack



OCT 15 2015

SURVEY REPORT



Job #: 10365939
Well: Red Hills West 16 State TC 12H
Field: Bone Spring 3rd Carbonate
County & State: Lea County, NM

North Type: Grid North
Total Correction: 7.04"
Target TVD: 10882.87 ft
Vertical Section Azm: 180.44°

SURVEY DATA											
Date	No.	MD	INC	AZM	C.L	TVD	VS	N-S	E-W	DLS	BHA
	0	0	0.00	0.00	0	0.00	0.00	0.00	0.00	0.00	Surface
	1	18	0.00	0.00	18	18.00	0.00	0.00	0.00	0.00	Gyro
	2	137	0.20	183.40	119	137.00	0.21	-0.21	-0.01	0.17	Gyro
	3	199	0.50	266.10	62	199.00	0.34	-0.33	-0.29	0.83	Gyro
	4	262	0.50	259.60	63	262.00	0.41	-0.40	-0.83	0.09	Gyro
	5	324	0.20	345.30	62	324.00	0.35	-0.35	-1.13	0.85	Gyro
	6	386	0.10	134.20	62	386.00	0.29	-0.28	-1.12	0.47	Gyro
	7	448	0.40	133.50	62	447.99	0.47	-0.47	-0.92	0.48	Gyro
	8	533	0.50	123.50	85	532.99	0.88	-0.87	-0.40	0.15	Gyro
	9	618	0.20	135.00	85	617.99	1.18	-1.18	0.02	0.36	Gyro
	10	703	0.70	123.50	85	702.99	1.57	-1.58	0.56	0.59	Gyro
	11	788	0.80	151.10	85	787.98	2.37	-2.38	1.28	0.44	Gyro
	12	873	0.70	174.50	85	872.97	3.41	-3.42	1.61	0.38	Gyro
Tie In	13	927	1.30	199.50	54	926.97	4.31	-4.32	1.44	1.35	Gyro
10/6/14	14	1037	1.87	218.35	110	1036.92	6.91	-6.91	-0.09	0.70	BHA1
10/6/14	15	1131	2.02	220.13	94	1130.87	9.39	-9.38	-2.11	0.17	BHA1
10/6/14	16	1226	2.17	227.46	95	1225.81	11.91	-11.87	-4.51	0.32	BHA1
10/6/14	17	1320	3.21	243.64	94	1319.70	14.31	-14.25	-8.18	1.36	BHA1
10/6/14	18	1414	4.86	265.21	94	1413.47	15.86	-15.75	-14.51	2.36	BHA1
10/6/14	19	1509	7.43	291.00	95	1507.93	14.07	-13.88	-24.26	3.91	BHA1
10/6/14	20	1603	3.88	313.92	94	1601.47	9.74	-9.49	-32.23	4.40	BHA 1
10/6/14	21	1697	0.73	337.14	94	1695.39	7.00	-6.74	-34.75	3.43	BHA 1
10/6/14	22	1791	0.37	318.70	94	1789.38	6.23	-5.96	-35.18	0.42	BHA 1
10/6/14	23	1885	0.62	300.62	94	1883.38	5.74	-5.47	-35.82	0.31	BHA 1
10/6/14	24	1980	0.70	295.05	95	1978.37	5.24	-4.96	-36.79	0.11	BHA 1
10/6/14	25	2074	1.35	311.28	94	2072.36	4.28	-3.99	-38.14	0.75	BHA 1
10/7/14	26	2168	2.67	336.30	94	2166.30	1.56	-1.25	-39.85	1.65	BHA 1
10/7/14	27	2262	2.55	4.35	94	2260.20	-2.53	2.84	-40.58	1.35	BHA 1
10/7/14	28	2357	1.76	96.25	95	2355.16	-4.49	4.79	-38.96	3.31	BHA 1
10/7/14	29	2451	1.50	151.56	94	2449.13	-3.26	3.55	-36.94	1.63	BHA 1
10/7/14	30	2545	1.09	161.68	94	2543.10	-1.34	1.62	-36.08	0.50	BHA 1
10/7/14	31	2639	0.55	165.05	94	2637.09	-0.06	0.33	-35.68	0.58	BHA 1
10/7/14	32	2734	0.31	139.02	95	2732.09	0.57	-0.30	-35.39	0.32	BHA 1
10/7/14	33	2828	0.37	123.99	94	2826.09	0.93	-0.66	-34.97	0.11	BHA 1
10/7/14	34	2922	0.48	120.20	94	2920.09	1.30	-1.03	-34.38	0.12	BHA 1
10/7/14	35	3017	0.66	112.07	95	3015.08	1.70	-1.44	-33.53	0.21	BHA 1
10/7/14	36	3111	0.97	98.73	94	3109.07	2.01	-1.76	-32.24	0.38	BHA 1
10/7/14	37	3205	1.38	92.13	94	3203.05	2.16	-1.92	-30.33	0.46	BHA 1
10/7/14	38	3299	1.52	91.81	94	3297.02	2.22	-2.01	-27.95	0.15	BHA 1
10/7/14	39	3394	1.51	83.51	95	3391.99	2.10	-1.90	-25.45	0.23	BHA 1
10/7/14	40	3488	1.80	79.64	94	3485.95	1.67	-1.50	-22.76	0.33	BHA 1
10/7/14	41	3582	1.68	83.51	94	3579.91	1.23	-1.08	-19.94	0.18	BHA 1
10/7/14	42	3676	1.41	83.48	94	3673.87	0.92	-0.79	-17.42	0.29	BHA 1
10/7/14	43	3771	1.40	82.36	95	3768.84	0.62	-0.50	-15.11	0.03	BHA 1
10/7/14	44	3865	1.61	93.74	94	3862.81	0.53	-0.44	-12.66	0.39	BHA 1
10/7/14	45	3959	1.84	101.60	94	3956.77	0.90	-0.83	-9.86	0.35	BHA 1
10/7/14	46	4053	1.94	102.97	94	4050.72	1.54	-1.49	-6.83	0.12	BHA 1
10/7/14	47	4148	2.18	110.25	95	4145.66	2.50	-2.47	-3.57	0.37	BHA 1
10/7/14	48	4242	2.50	118.50	94	4239.58	4.07	-4.07	-0.09	0.49	BHA 1
10/8/14	49	4336	2.79	117.79	94	4333.48	6.09	-6.12	3.74	0.31	BHA 1
10/8/14	50	4431	3.02	102.40	95	4428.36	7.67	-7.73	8.22	0.85	BHA 1
10/8/14	51	4525	3.47	84.44	94	4522.21	7.88	-7.99	13.47	1.18	BHA 1
10/8/14	52	4603	3.60	73.81	78	4600.06	6.94	-7.08	18.18	0.86	BHA 1
10/10/14	53	4723	3.91	69.82	120	4719.80	4.42	-4.61	25.63	0.34	BHA2
10/10/14	54	4818	4.23	51.28	95	4814.57	1.06	-1.30	31.41	1.42	BHA2
10/10/14	55	4912	4.14	15.59	94	4908.33	-4.40	4.13	35.03	2.73	BHA2
10/10/14	56	5006	2.09	288.24	94	5002.23	-8.20	7.94	34.31	4.84	BHA2
10/10/14	57	5101	2.06	324.33	95	5097.17	-10.11	9.87	31.67	1.35	BHA2
10/10/14	58	5195	2.40	22.20	94	5191.11	-13.31	13.06	31.43	2.32	BHA2

SURVEY REPORT



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 Field: Bone Spring 3rd Carbonate
 County & State: Lea County, NM

North Type: Grid North
 Total Correction: 7.04"
 Target TVD: 10882.87 ft
 Vertical Section Azm: 180.44°

SURVEY DATA											
Date	No.	MD	INC	AZM	C.L	TVD	VS	N-S	E-W	DLS	BHA
10/10/14	59	5289	0.60	93.51	94	5285.08	-15.11	14.86	32.66	2.43	BHA2
10/10/14	60	5383	1.59	243.14	94	5379.07	-14.48	14.24	31.99	2.27	BHA 2
10/10/14	61	5478	3.11	253.61	95	5473.99	-13.13	12.91	28.34	1.66	BHA2
10/10/14	62	5572	4.71	299.00	94	5567.78	-14.24	14.07	22.52	3.57	BHA2
10/10/14	63	5666	5.17	345.82	94	5661.47	-20.18	20.05	18.10	4.20	BHA2
10/11/14	64	5760	1.56	27.43	94	5755.30	-25.42	25.29	17.65	4.40	BHA2
10/11/14	65	5855	0.51	164.55	95	5850.29	-26.17	26.03	18.36	2.07	BHA2
10/11/14	66	5949	0.37	152.88	94	5944.29	-25.50	25.36	18.61	0.18	BHA2
10/11/14	67	6043	0.32	158.42	94	6038.29	-24.99	24.84	18.85	0.06	BHA2
10/11/14	68	6138	0.20	163.71	95	6133.29	-24.58	24.44	18.99	0.13	BHA2
10/11/14	69	6232	0.26	152.21	94	6227.29	-24.24	24.09	19.14	0.08	BHA2
10/11/14	70	6326	0.40	164.17	94	6321.29	-23.73	23.59	19.33	0.17	BHA2
10/11/14	71	6420	0.52	148.29	94	6415.28	-23.06	22.91	19.64	0.19	BHA2
10/11/14	72	6514	0.48	163.30	94	6509.28	-22.32	22.17	19.98	0.15	BHA2
10/11/14	73	6609	0.57	163.76	95	6604.27	-21.49	21.33	20.22	0.09	BHA2
10/11/14	74	6703	0.50	159.14	94	6698.27	-20.66	20.50	20.50	0.09	BHA2
10/11/14	75	6797	0.55	171.36	94	6792.27	-19.83	19.67	20.71	0.13	BHA2
10/11/14	76	6892	0.61	177.69	95	6887.26	-18.87	18.72	20.80	0.09	BHA2
10/11/14	77	6986	0.58	189.80	94	6981.26	-17.91	17.75	20.74	0.14	BHA2
10/11/14	78	7080	0.53	190.50	94	7075.25	-17.01	16.85	20.58	0.05	BHA2
10/11/14	79	7175	0.67	178.03	95	7170.25	-16.02	15.86	20.52	0.20	BHA2
10/11/14	80	7269	0.78	179.09	94	7264.24	-14.83	14.67	20.55	0.12	BHA2
10/11/14	81	7363	0.84	192.20	94	7358.23	-13.52	13.36	20.41	0.21	BHA2
10/11/14	82	7457	0.95	189.58	94	7452.22	-12.07	11.92	20.14	0.12	BHA2
10/11/14	83	7552	1.02	191.71	95	7547.20	-10.47	10.31	19.84	0.08	BHA2
10/12/14	84	7646	1.06	195.64	94	7641.19	-8.81	8.66	19.43	0.09	BHA2
10/12/14	85	7740	0.95	193.04	94	7735.17	-7.21	7.06	19.02	0.13	BHA2
10/12/14	86	7835	1.01	196.35	95	7830.16	-5.63	5.49	18.61	0.09	BHA2
10/12/14	87	7929	1.18	195.28	94	7924.14	-3.90	3.76	18.12	0.18	BHA2
10/13/14	88	8023	1.34	196.40	94	8018.12	-1.91	1.77	17.56	0.17	BHA3
10/13/14	89	8117	1.50	188.77	94	8112.09	0.37	-0.50	17.06	0.26	BHA3
10/13/14	90	8211	1.40	197.75	94	8206.06	2.68	-2.81	16.52	0.26	BHA3
10/13/14	91	8306	1.48	196.75	95	8301.03	4.96	-5.09	15.81	0.09	BHA3
10/13/14	92	8400	1.40	203.71	94	8395.00	7.18	-7.30	15.00	0.20	BHA3
10/13/14	93	8494	1.21	201.13	94	8488.98	9.17	-9.28	14.18	0.21	BHA3
10/13/14	94	8589	1.59	202.98	95	8583.95	11.32	-11.43	13.31	0.40	BHA3
10/13/14	95	8683	1.43	216.07	94	8677.92	13.48	-13.57	12.11	0.40	BHA3
10/13/14	96	8777	1.32	228.34	94	8771.89	15.16	-15.24	10.61	0.33	BHA3
10/13/14	97	8871	1.36	235.89	94	8865.86	16.52	-16.59	8.87	0.19	BHA3
10/13/14	98	8966	1.42	231.80	95	8960.84	17.89	-17.95	7.02	0.12	BHA3
10/14/14	99	9060	1.31	227.99	94	9054.81	19.35	-19.39	5.30	0.15	BHA3
10/14/14	100	9154	1.30	239.77	94	9148.79	20.61	-20.64	3.58	0.29	BHA3
10/14/14	101	9249	2.00	244.44	95	9243.75	21.89	-21.90	1.16	0.75	BHA3
10/14/14	102	9343	1.36	276.31	94	9337.71	22.50	-22.49	-1.43	1.18	BHA3
10/14/14	103	9438	1.07	212.24	95	9432.69	23.13	-23.11	-3.03	1.38	BHA3
10/14/14	104	9532	0.88	189.45	94	9526.68	24.59	-24.57	-3.61	0.46	BHA3
10/14/14	105	9626	1.02	200.05	94	9620.66	26.09	-26.06	-4.02	0.24	BHA3
10/14/14	106	9720	0.84	224.57	94	9714.65	27.38	-27.34	-4.79	0.46	BHA3
10/14/14	107	9815	1.08	220.27	95	9809.64	28.56	-28.52	-5.86	0.26	BHA3
10/14/14	108	9909	0.86	233.57	94	9903.62	29.67	-29.62	-7.00	0.33	BHA3
10/15/14	109	10003	0.65	214.40	94	9997.62	30.53	-30.47	-7.87	0.35	BHA3
10/15/14	110	10098	0.59	154.07	95	10092.61	31.42	-31.36	-7.96	0.66	BHA3
10/15/14	111	10192	0.92	132.48	94	10186.60	32.36	-32.30	-7.19	0.46	BHA3
10/18/14	112	10310	2.83	252.47	118	10304.56	33.89	-33.82	-9.27	2.87	BHA5
10/19/14	113	10339	7.06	267.99	29	10333.44	34.19	-34.10	-11.73	15.17	BHA5
10/19/14	114	10373	4.24	257.62	34	10367.28	34.56	-34.44	-15.05	8.79	BHA5
10/19/14	115	10404	6.05	228.94	31	10398.16	35.89	-35.76	-17.40	9.97	BHA5
10/23/14	116	10435	7.27	211.20	31	10428.95	38.66	-38.51	-19.65	7.67	BHA6

SURVEY REPORT



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Target TVD: 10882.87 ft
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10/23/14	117	10467	6.56	199.70	32	10460.72	42.13	-41.97	-21.31	4.85	BHA6
10/23/14	118	10498	9.59	198.16	31	10491.41	46.26	-46.09	-22.72	9.80	BHA6
10/23/14	119	10530	12.73	197.90	32	10522.80	52.16	-51.98	-24.63	9.81	BHA6
10/23/14	120	10561	16.91	197.13	31	10552.76	59.74	-59.54	-27.01	13.50	BHA6
10/23/14	121	10592	20.98	197.97	31	10582.07	69.36	-69.13	-30.05	13.16	BHA6
10/23/14	122	10624	24.40	197.33	32	10611.59	81.15	-80.89	-33.79	10.72	BHA6
10/23/14	123	10655	27.52	191.76	31	10639.47	94.30	-94.02	-37.16	12.76	BHA6
10/24/14	124	10687	30.71	187.08	32	10667.42	109.68	-109.37	-39.67	12.24	BHA6
10/24/14	125	10718	33.90	183.95	31	10693.62	126.17	-125.86	-41.24	11.62	BHA6
10/24/14	126	10750	38.06	182.39	32	10719.51	144.95	-144.63	-42.27	13.31	BHA6
10/24/14	127	10781	42.98	182.32	31	10743.07	165.07	-164.74	-43.10	15.87	BHA6
10/24/14	128	10813	46.44	182.60	32	10765.81	187.57	-187.23	-44.07	10.83	BHA6
10/24/14	129	10844	50.56	181.39	31	10786.35	210.77	-210.43	-44.87	13.61	BHA6
10/24/14	130	10876	54.13	179.19	32	10805.89	236.10	-235.76	-44.98	12.41	BHA6
10/24/14	131	10907	57.79	177.77	31	10823.25	261.76	-261.43	-44.29	12.40	BHA6
10/24/14	132	10938	61.49	177.49	31	10838.91	288.48	-288.15	-43.19	11.96	BHA6
10/24/14	133	10970	65.43	180.50	32	10853.21	317.08	-316.77	-42.70	14.91	BHA6
10/24/14	134	11001	68.95	181.16	31	10865.23	345.65	-345.33	-43.11	11.52	BHA6
10/24/14	135	11033	73.31	180.72	32	10875.57	375.93	-375.60	-43.61	13.69	BHA6
10/25/14	136	11064	77.79	179.86	31	10883.31	405.94	-405.61	-43.76	14.70	BHA6
10/25/14	137	11088	81.11	179.14	24	10887.70	429.53	-429.20	-43.55	14.14	BHA6
10/26/14	138	11127	86.98	178.53	39	10891.74	468.28	-467.97	-42.76	15.13	BHA7
10/27/14	139	11157	88.29	177.90	30	10892.98	498.23	-497.93	-41.83	4.84	BHA7
10/27/14	140	11189	87.96	177.59	32	10894.03	530.18	-529.89	-40.57	1.41	BHA7
10/27/14	141	11283	86.42	178.13	94	10898.64	623.97	-623.70	-37.06	1.74	BHA7
10/27/14	142	11377	87.20	178.66	94	10903.87	717.76	-717.52	-34.44	1.00	BHA7
10/27/14	143	11471	86.58	178.53	94	10908.97	811.58	-811.35	-32.13	0.67	BHA7
10/27/14	144	11566	87.90	177.69	95	10913.54	906.38	-906.19	-29.00	1.65	BHA7
10/27/14	145	11660	87.79	178.27	94	10917.08	1000.23	-1000.06	-25.69	0.63	BHA7
10/27/14	146	11754	89.89	178.27	94	10918.98	1094.14	-1094.00	-22.86	2.23	BHA7
10/27/14	147	11849	90.03	178.41	95	10919.05	1189.07	-1188.96	-20.10	0.21	BHA7
10/27/14	148	11943	90.22	178.49	94	10918.84	1283.02	-1282.92	-17.56	0.22	BHA7
10/27/14	149	12037	90.73	178.86	94	10918.06	1376.97	-1376.89	-15.39	0.67	BHA7
10/27/14	150	12131	91.06	178.85	94	10916.59	1470.92	-1470.86	-13.51	0.35	BHA7
10/27/14	151	12226	91.06	180.12	95	10914.84	1565.89	-1565.84	-12.66	1.34	BHA7
10/27/14	152	12320	89.66	180.76	94	10914.25	1659.89	-1659.83	-13.38	1.64	BHA7
10/27/14	153	12415	90.03	181.44	95	10914.50	1754.88	-1754.81	-15.20	0.81	BHA7
10/27/14	154	12510	90.56	181.51	95	10914.01	1849.86	-1849.78	-17.65	0.56	BHA7
10/27/14	155	12604	90.78	182.64	94	10912.91	1943.82	-1943.71	-21.05	1.22	BHA7
10/27/14	156	12698	89.52	182.09	94	10912.67	2037.76	-2037.63	-24.93	1.46	BHA7
10/27/14	157	12793	89.36	181.02	95	10913.60	2132.74	-2132.59	-27.51	1.14	BHA7
10/27/14	158	12889	91.12	182.87	96	10913.19	2228.69	-2228.52	-30.76	2.66	BHA7
10/27/14	159	12984	90.34	183.78	95	10911.98	2323.56	-2323.35	-36.27	1.26	BHA7
10/27/14	160	13079	89.86	182.84	95	10911.82	2418.44	-2418.19	-41.76	1.11	BHA7
10/27/14	161	13176	89.24	183.45	97	10912.58	2515.33	-2515.04	-47.08	0.90	BHA7
10/27/14	162	13270	88.80	183.37	94	10914.19	2609.19	-2608.86	-52.67	0.48	BHA7
10/29/14	163	13365	90.03	182.61	95	10915.16	2704.09	-2703.73	-57.63	1.52	BHA7
10/29/14	164	13460	89.24	181.44	95	10915.76	2799.05	-2798.66	-60.98	1.49	BHA7
10/30/14	165	13546	88.63	179.60	86	10917.36	2885.03	-2884.64	-61.76	2.25	BHA7
10/30/14	166	13641	88.99	179.35	95	10919.33	2980.00	-2979.62	-60.89	0.46	BHA7
10/30/14	167	13736	89.36	179.87	95	10920.70	3074.98	-3074.60	-60.25	0.67	BHA7
10/30/14	168	13831	89.94	179.90	95	10921.28	3169.97	-3169.60	-60.06	0.61	BHA7
10/30/14	169	13925	89.89	179.79	94	10921.42	3263.96	-3263.60	-59.80	0.13	BHA7
10/30/14	170	14020	90.14	179.93	95	10921.40	3358.96	-3358.60	-59.57	0.30	BHA7
10/30/14	171	14115	89.47	177.97	95	10921.72	3453.92	-3453.58	-57.83	2.18	BHA7
10/30/14	172	14209	89.13	177.61	94	10922.87	3547.81	-3547.50	-54.20	0.53	BHA7
10/30/14	173	14304	90.81	178.52	95	10922.92	3642.73	-3642.44	-51.00	2.01	BHA7
10/30/14	174	14398	91.26	178.71	94	10921.22	3736.66	-3736.40	-48.72	0.52	BHA7

SURVEY REPORT



Job #: 10365939
 Well: Red Hills West 16 State TC 12H
 Field: Bone Spring 3rd Carbonate
 County & State: Lea County, NM

North Type: Grid North
 Total Correction: 7.04"
 Target TVD: 10882.87 ft
 Vertical Section Azm: 180.44°

SURVEY DATA											
Date	No.	MD	INC	AZM	C.L	TVD	VS	N/-S	E/-W	DLS	BHA
10/31/14	175	14493	91.68	178.38	95	10918.78	3831.58	-3831.34	-46.31	0.56	BHA7
10/31/14	176	14589	92.13	178.74	96	10915.59	3927.47	-3927.25	-43.90	0.60	BHA7
10/31/14	177	14684	91.29	179.10	95	10912.76	4022.40	-4022.19	-42.11	0.96	BHA7
10/31/14	178	14779	91.60	179.48	95	10910.36	4117.35	-4117.16	-40.94	0.52	BHA7
10/31/14	179	14875	91.71	179.51	96	10907.59	4213.30	-4213.11	-40.09	0.12	BHA7
10/31/14	180	14972	91.96	179.69	97	10904.48	4310.23	-4310.06	-39.41	0.32	BHA7
10/31/14	181	15067	91.65	179.76	95	10901.49	4405.18	-4405.01	-38.96	0.33	BHA7
10/31/14	182	15162	92.27	179.92	95	10898.24	4500.12	-4499.95	-38.69	0.67	BHA7
10/31/14	183	15257	93.13	179.82	95	10893.77	4595.01	-4594.85	-38.48	0.91	BHA7
10/31/14	184	15266	93.24	179.94	9	10893.27	4603.99	-4603.83	-38.46	1.81	BHA7
PROJ	185	15333	93.24	179.94	67	10889.48	4670.88	-4670.73	-38.39	0.00	PROJ