

Results of Directional Survey

API number:	30-025-41265		
OGRID:		Operator:	REGENERATION ENERGY, CORPORATION
		Property:	BILL FEDERAL COM # 1H

surface	ULSTR:	O	19		T 23S		R 35E
					330 FSL		1980 FEL

BH Loc	ULSTR:	B	19		T 23S		R 35E
13021	MD	8635.2	TVD		373 FNL		2047 FEL
					4907 FSL		

Top Perf/OH	ULSTR:	O	19		T 23S		R 35E
9091	MD	8699.3	TVD		980 FSL		2064 FEL

Bot Perf/OH	ULSTR:	B	19		T 23S		R 35E
12874	MD	8639.5	TVD		520 FNL		2048 FEL
					4760 FSL		

	MD	N/S	E/W	VD
	9083	641.74	-84.11	8699.44
TOP PERFS/OH	9091	649.73	-83.70	8699.31
	9146	704.65	-80.87	8698.44
	12873	4428.96	-68.16	8639.48
BOT PERFS/OH	12874	4429.96	-68.15	8639.45
	12969	4524.93	-67.49	8636.88

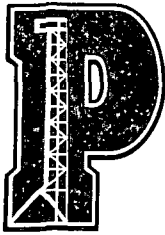
NEXT TO LAST	12969	4524.93	-67.49	8636.88
LAST READING	13021	4576.90	-67.40	8635.16
TD	13021	4576.90	-67.40	8635.16

Surface Location	330	FS	1980	FE
Projected BHL	4907	FS	2047	FE
Location of				
Top Perfs/OH	980	FS	2064	FE
Bottom Perfs/OH	4760	FS	2048	FE

SUMMARY of Subsurface Locations

Surface Location	O-19-23S-35E	330	FS	1980	FE	Vert. Depth
Top Perfs/OH	O-19-23S-35E	980	FS	2064	FE	8699.31
Bottom Perfs/OH	B-19-23S-35E	4760	FS	2048	FE	8639.45
Projected TD	B-19-23S-35E	4907	FS	2047	FE	8635.16

MAR 03 2014



PATRIOT DRILLING, LLC

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OPERATOR: Regeneration Energy Corp
WELL/LEASE: Bill Federal Com. # 1 H
COUNTY: Lea Co., New Mexico
Sec. 9, T23S, R35E

**STATE OF NEW MEXICO
DEVIATION REPORT**

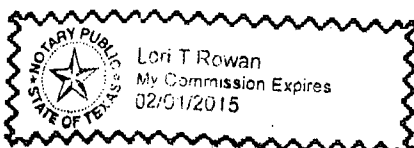
<u>Depth</u>	<u>Deviation</u>	<u>Depth</u>	<u>Deviation</u>
323	3/4	3,190	3 1/4
610	1 1/2	3,490	2
915	2	3,712	1
943	2	3,870	1/2
1,293	1 3/4	4,060	1 1/2
1,387	1	4,534	1/2
1,596	1 1/2	5,370	1 3/4
1,979	3/4	5,844	1 3/4
2,166	1	6,859	3/4
2,354	1	7,303	2 1/4
2,542	1 1/4	7,252	1 3/4
3,730	1 3/4	8,142	3
2,919	2 3/4		

Patriot Drilling, LLC

M. Leroy Peterson, Executive Vice-President

The foregoing instrument was acknowledged before me on this 27th day of August, 2013 by M. Leroy Peterson, Executive Vice-President of Patriot Drilling, LLC.

My Commission Expires: 02/01/2015



Lori T. Rowan
Notary Public for Ector Co., Texas



HOBBS OCD

FEB 11 2014

State of New Mexico
County of Lea

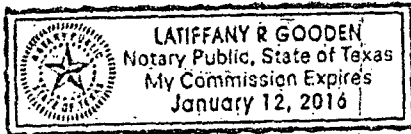
RECEIVED

I, Michael K. Baber, certify that: I am employed by Terra Directional Services LLC; that I did on the day(s) of 07/30/13 through 8/21/13 conduct or supervise the taking of a MWD survey from a depth of 8142 feet to a depth 13021 feet; that the data is true, correct, complete and within the limitations of the tool as set forth by Terra Directional Services LLC; that I am authorized and qualified to make this report; that this survey was conducted at the request of Regeneration Energy for the Bill Federal Com #1H Well API 30-25-41265 in Lea County, New Mexico; and that I have reviewed this report and find that it conforms to the principles and procedures as set forth by Terra Directional Services LLC.

Michael K. Baber
MWD Operations Coordinator

State of Texas
County of Brewster

Before me, a notary public, on this day personally appeared Michael K. Baber, known to me to be the person whose name is subscribed to the foregoing document and, being by me first duly sworn, declared that the statements therein contained are true and correct.


Notary Public's Signature

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Customer Name: Regeneration Energy
Well Name: Bill Federal Com #1H
AFE/P.O. Number: 3002541265
County / Parish: 32* 17 1.067N, 103* 2

M.W.D. Operator: Art Jimenez
Directional Driller: Brett Nichols
Total Magnetic Correction: 6.81
Job #: NM-321

Vertical Section: 359.44

Tie In Survey(s) Provided By:

Table with 10 columns: Meas. Depth, Inc., Azm., T.V.D., Ver. Sect., +N/-S, +E/-W, Dist., Angle, DLS. Rows 0-39 showing survey data.

LATIFFANY R GOODEN
Notary Public, State of Texas
My Commission Expires
January 12, 2016

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39	9715.00	90.90	359.30	8694.42	1273.78	1273.21	-64.42	1274.84	357.10	2.30
40	9811.00	92.30	359.60	8691.74	1369.74	1369.16	-65.34	1370.72	357.27	1.49
41	9904.00	91.70	358.40	8688.49	1462.67	1462.09	-66.96	1463.62	357.38	1.44
42	9999.00	92.60	357.20	8684.93	1557.57	1556.95	-70.61	1558.55	357.40	1.58
43	10094.00	91.00	359.50	8681.95	1652.49	1651.85	-73.34	1653.48	357.46	2.95
44	10189.00	90.60	358.60	8680.62	1747.48	1746.83	-74.91	1748.44	357.54	1.04
45	10285.00	91.50	0.20	8678.86	1843.46	1842.81	-75.92	1844.37	357.64	1.91
46	10379.00	91.30	359.00	8676.56	1937.43	1936.77	-76.58	1938.29	357.74	1.29
47	10475.00	89.80	0.70	8675.64	2033.42	2032.76	-76.83	2034.21	357.84	2.36
48	10570.00	89.30	0.70	8676.39	2128.39	2127.75	-75.67	2129.10	357.96	0.53
49	10634.00	89.50	0.10	8677.06	2192.38	2191.75	-75.22	2193.04	358.03	0.99
50	10665.00	89.50	0.30	8677.33	2223.37	2222.75	-75.11	2224.01	358.06	0.65
51	10697.00	89.30	0.50	8677.66	2255.37	2254.74	-74.89	2255.99	358.10	0.88
52	10728.00	88.80	0.00	8678.18	2286.36	2285.74	-74.75	2286.96	358.13	2.28
53	10759.00	88.90	0.40	8678.80	2317.35	2316.73	-74.64	2317.93	358.15	1.33
54	10791.00	89.10	0.00	8679.36	2349.34	2348.73	-74.53	2349.91	358.18	1.40
55	10822.00	89.40	359.90	8679.76	2380.34	2379.72	-74.56	2380.89	358.21	1.02
56	10854.00	90.30	0.30	8679.85	2412.34	2411.72	-74.50	2412.87	358.23	3.08
57	10948.00	89.10	359.30	8680.34	2506.33	2505.72	-74.83	2506.84	358.29	1.66
58	11044.00	88.20	357.80	8682.60	2602.29	2601.66	-77.26	2602.80	358.30	1.82
59	11139.00	88.10	357.10	8685.67	2697.18	2696.51	-81.48	2697.74	358.27	0.74
60	11234.00	89.70	358.10	8687.49	2792.11	2791.41	-85.46	2792.72	358.25	1.99
61	11350.00	88.20	358.60	8689.62	2908.07	2907.34	-88.80	2908.69	358.25	1.36
62	11446.00	91.20	1.80	8690.12	3004.03	3003.31	-88.47	3004.61	358.31	4.57
63	11541.00	92.80	1.30	8686.81	3098.91	3098.22	-85.90	3099.41	358.41	1.76
64	11636.00	92.50	0.40	8682.41	3193.78	3193.10	-84.49	3194.22	358.48	1.00
65	11731.00	92.40	0.80	8678.35	3288.67	3288.01	-83.50	3289.07	358.55	0.43
66	11826.00	93.50	2.10	8673.46	3383.48	3382.85	-81.10	3383.82	358.63	1.79
67	11922.00	92.80	1.80	8668.19	3479.24	3478.65	-77.83	3479.52	358.72	0.79
68	12017.00	92.40	1.60	8663.88	3574.07	3573.51	-75.02	3574.30	358.80	0.47
69	12112.00	91.10	1.40	8660.98	3668.96	3668.43	-72.53	3669.15	358.87	1.38
70	12207.00	91.90	0.60	8658.49	3763.89	3763.38	-70.88	3764.05	358.92	1.19
71	12302.00	92.00	1.70	8655.26	3858.80	3858.31	-68.97	3858.92	358.98	1.16
72	12397.00	93.00	1.50	8651.11	3953.64	3953.18	-66.32	3953.73	359.04	1.07
73	12492.00	90.90	359.80	8647.88	4048.55	4048.11	-65.24	4048.63	359.08	2.84
74	12587.00	90.50	358.70	8646.72	4143.54	4143.09	-66.49	4143.62	359.08	1.23
75	12683.00	92.70	359.30	8644.04	4239.50	4239.03	-68.16	4239.58	359.08	2.38
76	12778.00	90.80	0.00	8641.14	4334.45	4333.98	-68.74	4334.53	359.09	2.13
77	12873.00	91.20	0.70	8639.48	4429.42	4428.96	-68.16	4429.49	359.12	0.85
78	12969.00	91.90	0.10	8636.88	4525.37	4524.93	-67.49	4525.43	359.15	0.96
PTB	13021.00	91.90	0.10	8635.16	4577.34	4576.90	-67.40	4577.39	359.16	0.00



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REGENERATION ENERGY CORP.

Cinta Rojo
Lea County, NM
Bill Federal Com #1H
VH - Job #320813-KW-821

Survey: Gyro

SDI Survey Report

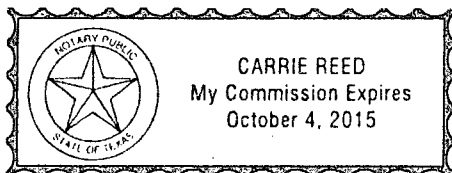
This survey is correct to the best of my knowledge and is supported by actual field data.

Luharto

Notarized this date 3rd of September, 2013.

Carrie Reed

Notary Signature
County of Midland
State of Texas



SDI
SDI Survey Report

Company:	REGENERATION ENERGY CORP.	Local Co-ordinate Reference:	Well Bill Federal Com #1H
Project:	Cinta Rojo	TVD Reference:	WELL @ 0.0usft (Original Well Elev)
Site:	Lea County, NM	MD Reference:	WELL @ 0.0usft (Original Well Elev)
Well:	Bill Federal Com #1H	North Reference:	Grid
Wellbore:	VH - Job #320813-KW-821	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #320813-KW-821	Database:	EDM-Regulatory

Project	Cinta Rojo		
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	Lea County, NM				
Site Position:		Northing:	457,385.64 usft	Latitude:	32° 15' 14.400 N
From:	Lat/Long	Easting:	789,460.96 usft	Longitude:	103° 23' 49.200 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16"	Grid Convergence:	0.50 °

Well	Bill Federal Com #1H, Directional					
Well Position	+N-S	0.0 usft	Northing:	468,145.66 usft	Latitude:	32° 17' 1.068 N
	+E-W	0.0 usft	Easting:	787,168.29 usft	Longitude:	103° 24' 14.810 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	0.0 usft

Wellbore	VH - Job #320813-KW-821				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	8/10/2013	7.25	60.22	48,480

Design	VH - Job #320813-KW-821				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:		Depth From (TVD) (usft)	+N-S (usft)	+E-W (usft)	Direction (°)
		0.0	0.0	0.0	359.44

Survey Program	Date	9/18/2013			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
100.0	8,060.0	Gyro (VH - Job #320813-KW-821)	Keeper	Keeper Gyro	

Survey									
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Azimuth (°)	Closure Distance (usft)		
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.0		
100.0	0.41	249.35	100.0	-0.1	-0.3	249.35	0.4		
200.0	0.46	267.08	200.0	-0.3	-1.1	255.70	1.1		
300.0	0.85	220.15	300.0	-0.9	-1.9	246.19	2.1		
400.0	0.86	225.26	400.0	-2.0	-3.0	236.56	3.5		
500.0	1.13	223.65	500.0	-3.2	-4.2	232.55	5.3		
600.0	1.67	215.14	599.9	-5.1	-5.7	228.14	7.6		
700.0	1.90	212.05	699.9	-7.7	-7.4	223.91	10.7		
800.0	2.21	213.24	799.8	-10.7	-9.3	221.10	14.2		
900.0	2.15	215.72	899.7	-13.9	-11.5	219.70	18.0		
1,000.0	1.56	218.36	999.7	-16.4	-13.4	219.26	21.2		
1,100.0	1.26	219.94	1,099.7	-18.4	-15.0	219.24	23.7		

SDI
SDI Survey Report

Company:	REGENERATION ENERGY CORP.	Local Co-ordinate Reference:	Well Bill Federal Com #1H
Project:	Cinta Rojo	TVD Reference:	WELL @ 0.0usft (Original Well Elev)
Site:	Lea County, NM	MD Reference:	WELL @ 0.0usft (Original Well Elev)
Well:	Bill Federal Com #1H	North Reference:	Grid
Wellbore:	VH - Job #320813-KW-821	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #320813-KW-821	Database:	EDM-Regulatory

Survey								
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Azimuth (°)	Closure Distance (usft)	
1,200.0	0.73	226.43	1,199.6	-19.6	-16.2	219.45	25.4	
1,300.0	0.74	235.24	1,299.6	-20.4	-17.2	220.00	26.7	
1,400.0	1.11	263.56	1,399.6	-20.9	-18.6	221.71	28.0	
1,500.0	1.20	273.91	1,499.6	-21.0	-20.7	224.58	29.4	
1,600.0	1.19	274.53	1,599.6	-20.8	-22.7	227.54	30.8	
1,700.0	1.08	271.38	1,699.6	-20.7	-24.7	230.05	32.2	
1,800.0	0.80	266.23	1,799.6	-20.7	-26.3	231.82	33.5	
1,900.0	0.58	258.16	1,899.5	-20.9	-27.5	232.84	34.6	
2,000.0	0.60	282.66	1,999.5	-20.9	-28.5	233.84	35.4	
2,100.0	0.61	322.65	2,099.5	-20.3	-29.4	235.33	35.7	
2,200.0	0.68	334.56	2,199.5	-19.4	-30.0	237.12	35.7	
2,300.0	0.93	347.87	2,299.5	-18.0	-30.4	239.31	35.3	
2,400.0	0.91	354.46	2,399.5	-16.5	-30.6	241.76	34.8	
2,500.0	1.06	359.96	2,499.5	-14.7	-30.7	244.37	34.1	
2,600.0	1.21	4.66	2,599.5	-12.8	-30.6	247.38	33.2	
2,700.0	1.50	14.60	2,699.4	-10.4	-30.2	250.94	32.0	
2,800.0	1.95	20.00	2,799.4	-7.6	-29.3	255.51	30.3	
2,900.0	2.40	30.52	2,899.3	-4.2	-27.6	261.42	28.0	
3,000.0	2.61	35.23	2,999.2	-0.5	-25.3	268.85	25.3	
3,100.0	2.74	35.48	3,099.1	3.3	-22.6	278.32	22.8	
3,200.0	2.80	35.83	3,199.0	7.2	-19.8	290.09	21.0	
3,300.0	2.68	42.21	3,298.9	10.9	-16.8	303.14	20.0	
3,400.0	1.96	69.78	3,398.8	13.3	-13.6	314.32	19.0	
3,500.0	2.26	83.12	3,498.7	14.1	-10.0	324.59	17.3	
3,600.0	2.37	93.04	3,598.7	14.2	-6.0	337.14	15.4	
3,700.0	1.13	117.29	3,698.6	13.7	-3.1	347.40	14.0	
3,800.0	0.34	105.60	3,798.6	13.1	-1.9	351.80	13.3	
3,900.0	0.55	85.02	3,898.6	13.1	-1.1	355.08	13.1	
4,000.0	0.79	85.23	3,998.6	13.2	0.0	0.17	13.2	
4,100.0	1.44	103.34	4,098.6	12.9	1.9	8.56	13.1	
4,200.0	1.27	97.84	4,198.6	12.5	4.3	18.84	13.2	
4,300.0	1.14	103.42	4,298.5	12.1	6.3	27.58	13.7	
4,400.0	0.85	113.27	4,398.5	11.6	8.0	34.53	14.1	
4,500.0	0.64	130.70	4,498.5	10.9	9.1	39.70	14.2	
4,600.0	0.35	173.92	4,598.5	10.3	9.5	42.88	14.0	
4,700.0	0.25	238.84	4,698.5	9.9	9.4	43.60	13.6	
4,800.0	0.38	262.21	4,798.5	9.7	8.9	42.45	13.1	
4,900.0	0.52	271.31	4,898.5	9.7	8.1	39.93	12.6	
5,000.0	0.92	252.59	4,998.5	9.4	6.9	36.06	11.7	
5,100.0	1.26	246.19	5,098.5	8.8	5.1	30.23	10.1	
5,200.0	1.33	250.39	5,198.4	7.9	3.0	20.75	8.5	
5,300.0	1.54	244.36	5,298.4	6.9	0.7	5.72	7.0	
5,400.0	1.62	232.83	5,398.4	5.5	-1.6	343.42	5.8	
5,500.0	1.58	237.18	5,498.3	3.9	-3.9	314.90	5.5	

SDI
SDI Survey Report

Company:	REGENERATION ENERGY CORP.	Local Co-ordinate Reference:	Well Bill Federal Com #1H
Project:	Cinta Rojo	TVD Reference:	WELL @ 0.0usft (Original Well Elev)
Site:	Lea County, NM	MD Reference:	WELL @ 0.0usft (Original Well Elev)
Well:	Bill Federal Com #1H	North Reference:	Grid
Wellbore:	VH - Job #320813-KW-821	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #320813-KW-821	Database:	EDM-Regulatory

Survey								
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Azimuth (°)	Closure Distance (usft)	
5,600.0	1.75	234.81	5,598.3	2.3	-6.3	289.85	6.7	
5,700.0	1.52	235.46	5,698.3	0.7	-8.7	274.31	8.7	
5,800.0	1.54	231.07	5,798.2	-0.9	-10.8	265.02	10.9	
5,900.0	1.61	231.73	5,898.2	-2.7	-13.0	258.41	13.2	
6,000.0	1.41	228.76	5,998.1	-4.3	-15.0	253.86	15.6	
6,100.0	1.17	232.31	6,098.1	-5.8	-16.7	250.95	17.7	
6,200.0	1.34	224.06	6,198.1	-7.2	-18.3	248.46	19.7	
6,300.0	1.32	230.30	6,298.1	-8.8	-20.0	246.26	21.9	
6,400.0	1.56	222.85	6,398.0	-10.5	-21.9	244.23	24.3	
6,500.0	1.57	227.24	6,498.0	-12.5	-23.8	242.32	26.9	
6,600.0	1.39	244.83	6,598.0	-13.9	-25.9	241.73	29.4	
6,700.0	1.33	248.36	6,697.9	-14.9	-28.1	242.09	31.8	
6,800.0	1.24	252.38	6,797.9	-15.6	-30.2	242.63	34.0	
6,900.0	1.28	254.84	6,897.9	-16.2	-32.3	243.29	36.1	
7,000.0	1.27	259.18	6,997.9	-16.7	-34.5	244.08	38.3	
7,100.0	1.30	254.45	7,097.8	-17.3	-36.6	244.78	40.5	
7,200.0	1.34	250.77	7,197.8	-17.9	-38.8	245.20	42.8	
7,300.0	1.67	248.78	7,297.8	-18.9	-41.3	245.46	45.4	
7,400.0	1.80	247.29	7,397.7	-20.0	-44.1	245.62	48.4	
7,500.0	1.78	251.64	7,497.7	-21.1	-47.0	245.85	51.5	
7,600.0	1.70	258.53	7,597.6	-21.9	-49.9	246.36	54.5	
7,700.0	1.73	268.15	7,697.6	-22.2	-52.9	247.23	57.4	
7,800.0	1.61	264.64	7,797.6	-22.4	-55.8	248.14	60.1	
7,900.0	1.56	263.16	7,897.5	-22.7	-58.6	248.83	62.8	
8,000.0	1.51	267.98	7,997.5	-22.9	-61.2	249.50	65.4	
8,060.0	1.32	271.94	8,057.5	-22.9	-62.7	249.94	66.8	

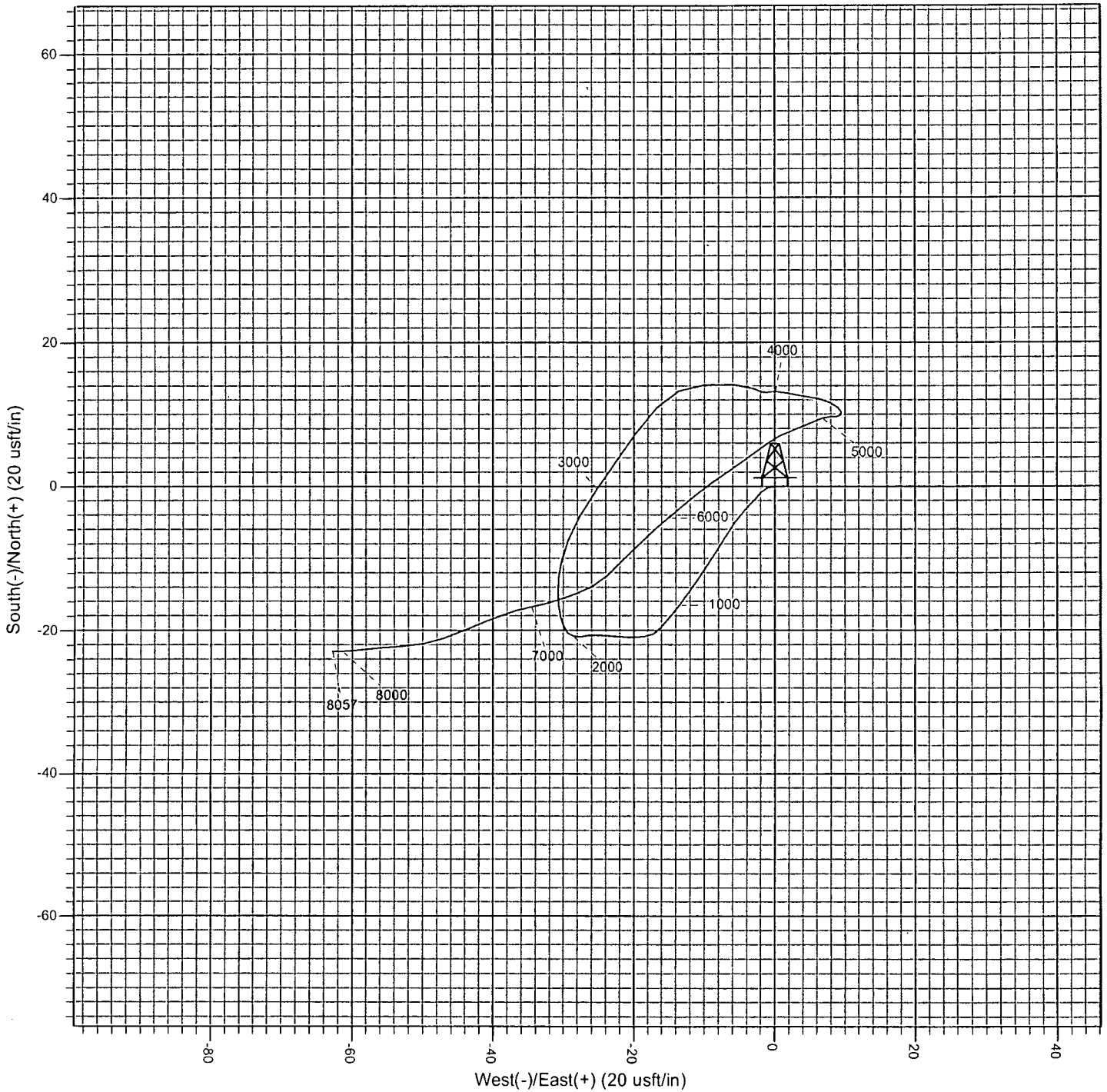


Scientific Drilling

Project: Cinta Rojo
Lea County, NM
Well: Bill Federal Com #1H
Wellbore: VH - Job #320813-KW-821
Design: VH - Job #320813-KW-821

WELL DETAILS: Bill Federal Com #1H
WELL @ 0.0usft (Original Well Elev)

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	468145.66	787168.29	32° 17' 1.068 N	103° 24' 14.810 W	



PROJECT DETAILS: Cinta Rojo	SITE DETAILS: Lea County, NM
Geodetic System: US State Plane 1927 (Exact solution)	Site Centre Latitude: 32° 15' 14.400 N
Datum: NAD 1927 (NADCON CONUS)	Longitude: 103° 23' 49.200 W
Ellipsoid: Clarke 1866	Positional Uncertainty: 0.0
Zone: New Mexico East 3001	Convergence: 0.50
System Datum: Mean Sea Level	Local North: Grid