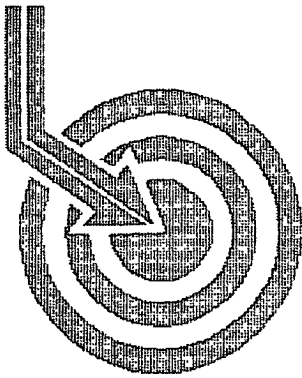




Scientific Drilling

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NADEL & GUSSMAN LLC

Field: Wildcat
Site: Lea County, NM
Well: Langley 21 Com #1
Wellpath: VH - Job 32K1009433/444
Survey: 10/18/09 & 10/24/09

API # 30-025-39377

H-21-235-36e

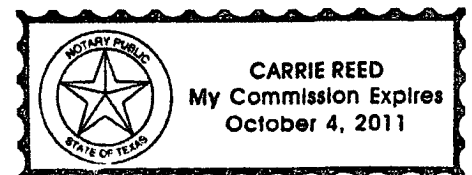
1980/N & 800/E

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

Lu Hart Company Representative

Notorized this date 11th of November, 2009.

Carrie Reed
Notary Signature
County of Midland
State of Texas





Scientific Drilling International Survey Report

Company: NADEL & GUSSMAN LLC	Date: 10/21/2009	Time: 12:26:02	Page: 1
Field: Wildcat	Co-ordinate(NE) Reference:	Site: Lea County, NM, Grid North	
Site: Lea County, NM	Vertical (TVD) Reference:	SITE 0.0	
Well: Langley 21 Com #1	Section (VS) Reference:	Well (0.00N,0.00E,55.08Azi)	
Wellpath: VH - Job 32K1009433	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Survey: 10/18/09	Start Date: 10/18/2009
Company: Scientific Drilling International	Engineer: Melendez/Rowe/Williams
Tool: Keeper, Keeper Gyro	Tied-to: From Surface

Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.03	335.39	100.00	0.00	0.02	-0.01	0.03	0.03	335.39
200.00	0.07	338.07	200.00	0.02	0.10	-0.04	0.04	0.11	336.83
300.00	0.10	213.99	300.00	-0.04	0.09	-0.12	0.15	0.15	307.31
400.00	0.17	97.49	400.00	-0.02	0.00	-0.02	0.23	0.02	260.14
500.00	0.09	121.33	500.00	0.12	-0.06	0.20	0.09	0.21	107.87
600.00	0.11	141.48	600.00	0.16	-0.18	0.32	0.04	0.37	119.02
700.00	0.20	163.08	700.00	0.11	-0.42	0.43	0.11	0.60	134.17
800.00	0.21	149.76	800.00	0.05	-0.75	0.58	0.05	0.94	142.31
900.00	0.24	39.21	900.00	0.23	-0.74	0.80	0.37	1.09	132.82
1000.00	0.54	14.03	1000.00	0.79	-0.12	1.05	0.34	1.06	96.70
1100.00	0.85	15.35	1099.99	1.71	1.05	1.36	0.31	1.72	52.32
1200.00	1.07	21.88	1199.97	3.07	2.63	1.90	0.25	3.25	35.88
1300.00	1.10	26.45	1299.96	4.69	4.36	2.68	0.09	5.11	31.58
1400.00	1.13	28.36	1399.94	6.41	6.08	3.57	0.05	7.06	30.44
1500.00	1.28	43.50	1499.92	8.39	7.76	4.81	0.35	9.13	31.80
1600.00	1.52	52.74	1599.89	10.81	9.37	6.64	0.33	11.49	35.29
1700.00	1.67	54.03	1699.85	13.59	11.03	8.87	0.15	14.16	38.80
1800.00	1.65	55.21	1799.80	16.49	12.71	11.23	0.04	16.96	41.47
1900.00	1.70	51.35	1899.76	19.41	14.46	13.57	0.12	19.83	43.19
2000.00	1.74	53.82	1999.72	22.40	16.28	15.96	0.08	22.80	44.42
2100.00	1.76	52.72	2099.67	25.46	18.11	18.40	0.04	25.82	45.47
2200.00	1.78	53.30	2199.62	28.54	19.97	20.87	0.03	28.88	46.27
2300.00	2.03	54.90	2299.57	31.87	21.91	23.57	0.26	32.18	47.08
2400.00	2.49	55.06	2399.49	35.81	24.18	26.80	0.46	36.09	47.94
2500.00	3.39	57.42	2499.36	40.94	27.01	31.07	0.91	41.17	49.00
2600.00	3.66	58.57	2599.17	47.08	30.27	36.28	0.28	47.25	50.16
2700.00	4.02	60.41	2698.94	53.75	33.66	42.05	0.38	53.87	51.32
2800.00	4.53	62.78	2798.66	61.16	37.20	48.61	0.54	61.21	52.58
2900.00	4.66	63.52	2898.34	69.09	40.82	55.76	0.14	69.11	53.80
3000.00	4.36	64.37	2998.03	76.86	44.27	62.83	0.31	76.86	54.83
3100.00	3.44	63.78	3097.80	83.57	47.24	68.94	0.92	83.58	55.58
3200.00	2.49	62.89	3197.67	88.69	49.56	73.57	0.95	88.70	56.03
3300.00	2.26	60.71	3297.58	92.81	51.51	77.22	0.25	92.83	56.29
3400.00	2.01	61.44	3397.51	96.51	53.32	80.48	0.25	96.54	56.48
3500.00	2.03	62.67	3497.45	100.01	54.97	83.60	0.05	100.05	56.67
3600.00	1.79	63.98	3597.39	103.31	56.47	86.57	0.24	103.36	56.89
3700.00	1.51	60.12	3697.35	106.16	57.81	89.12	0.30	106.23	57.03
3800.00	1.28	65.53	3797.32	108.57	58.93	91.28	0.26	108.65	57.15
3900.00	1.23	67.06	3897.30	110.72	59.81	93.28	0.06	110.81	57.33
4000.00	1.35	65.60	3997.27	112.93	60.71	95.34	0.12	113.03	57.51
4100.00	1.38	54.09	4097.24	115.29	61.91	97.39	0.28	115.40	57.56
4200.00	1.46	45.44	4197.21	117.75	63.51	99.28	0.23	117.85	57.39
4300.00	1.29	5.99	4297.19	119.75	65.52	100.30	0.94	119.80	56.85
4400.00	1.23	1.83	4397.16	121.13	67.71	100.45	0.11	121.14	56.02
4500.00	0.92	351.89	4497.14	122.13	69.58	100.37	0.36	122.13	55.27
4600.00	0.97	314.99	4597.13	122.34	70.97	99.66	0.60	122.35	54.54
4700.00	0.67	302.62	4697.12	121.97	71.89	98.57	0.35	122.00	53.90
4800.00	1.01	249.18	4797.11	120.89	71.89	97.25	0.81	120.94	53.53



Scientific Drilling International Survey Report

Company: NADEL & GUSSMAN LLC	Date: 10/21/2009	Time: 12:26:02	Page: 2
Field: Wildcat	Co-ordinate(NE) Reference:	Site: Lea County, NM, Grid North	
Site: Lea County, NM	Vertical (TVD) Reference:	SITE: 0.0	
Well: Langley 21, Com #1	Section (VS) Reference:	Well: (0.00N,0.00E,55.08Azi)	
Wellpath: VH - Job 32K1009433	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
4900.00	1.10	254.73	4897.10	119.14	71.32	95.50	0.14	119.20	53.25
5000.00	1.26	261.48	4997.07	117.25	70.91	93.49	0.21	117.34	52.82
5100.00	1.33	260.52	5097.05	115.21	70.55	91.26	0.07	115.35	52.29
5200.00	1.26	255.00	5197.02	113.13	70.08	89.05	0.14	113.32	51.80
5300.00	1.16	250.98	5297.00	111.13	69.46	87.03	0.13	111.35	51.41
5400.00	1.08	272.12	5396.98	109.40	69.17	85.13	0.42	109.69	50.91
5500.00	1.38	286.31	5496.96	107.89	69.54	83.04	0.43	108.31	50.06
5600.00	1.57	283.92	5596.93	106.24	70.21	80.55	0.20	106.85	48.92
5700.00	1.61	287.58	5696.89	104.48	70.96	77.88	0.11	105.36	47.66
5800.00	1.69	285.57	5796.85	102.69	71.78	75.12	0.10	103.90	46.30
5900.00	1.34	297.06	5896.81	101.20	72.71	72.66	0.46	102.79	44.98
6000.00	1.03	294.90	5996.79	100.20	73.62	70.80	0.31	102.14	43.88
6100.00	1.17	289.36	6096.77	99.15	74.34	69.03	0.18	101.44	42.88
6200.00	1.03	295.36	6196.75	98.11	75.06	67.25	0.18	100.78	41.86
6300.00	1.34	287.97	6296.73	96.96	75.81	65.33	0.35	100.07	40.75
6400.00	1.70	288.46	6396.70	95.37	76.64	62.81	0.36	99.08	39.34
6500.00	1.73	287.68	6496.65	93.57	77.56	59.96	0.04	98.04	37.71
6600.00	1.81	292.74	6596.60	91.81	78.63	57.07	0.18	97.16	35.97
6700.00	1.53	295.62	6696.56	90.31	79.82	54.41	0.29	96.60	34.28
6800.00	1.20	305.54	6796.53	89.30	81.01	52.35	0.40	96.45	32.87
6900.00	0.78	315.30	6896.52	88.83	82.10	51.02	0.45	96.66	31.86
7000.00	0.70	319.98	6996.51	88.66	83.05	50.15	0.10	97.02	31.12
7100.00	0.56	359.47	7096.50	88.89	84.01	49.75	0.45	97.63	30.64
7200.00	0.47	26.03	7196.50	89.52	84.86	49.93	0.25	98.46	30.47
7300.00	0.42	30.24	7296.50	90.21	85.55	50.29	0.06	99.24	30.45
7400.00	0.87	67.42	7396.49	91.29	86.16	51.18	0.59	100.21	30.71
7500.00	1.05	65.28	7496.48	92.93	86.83	52.71	0.18	101.58	31.26
7600.00	1.30	67.41	7596.45	94.94	87.65	54.59	0.25	103.26	31.91
7700.00	1.52	64.78	7696.42	97.35	88.65	56.84	0.23	105.31	32.66
7800.00	2.06	70.18	7796.38	100.40	89.83	59.73	0.57	107.87	33.62
7900.00	2.28	79.57	7896.30	103.94	90.80	63.38	0.42	110.73	34.91
8000.00	2.59	85.27	7996.21	107.71	91.34	67.58	0.39	113.63	36.50
8100.00	2.66	89.24	8096.11	111.58	91.56	72.16	0.19	116.57	38.24
8200.00	3.00	101.05	8195.99	115.32	91.09	77.04	0.67	119.30	40.22
8300.00	3.49	113.04	8295.83	118.75	89.40	82.41	0.83	121.59	42.67
8400.00	4.10	122.47	8395.61	121.74	86.29	88.23	0.87	123.41	45.64
8500.00	4.79	130.44	8495.31	124.17	81.66	94.42	0.92	124.84	49.15
8600.00	5.25	131.16	8594.93	126.32	75.94	101.05	0.46	126.40	53.07
8649.00	5.43	129.96	8643.71	127.47	72.97	104.51	0.43	127.47	55.08



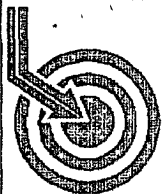
Scientific Drilling International Survey Report

Company: NADEL & GUSSMAN LLC Date: 10/27/2009 Time: 14:27:02 Page: 1
Field: Wildcat Co-ordinate(N/E) Reference: Site: Lea County, NM, Grid North
Site: Lea County, NM Vertical (TVD) Reference: SITE 0.0
Well: Langley 21, Com #1 Section (VS) Reference: Well (0.00N,0.00E,61.79Azi)
Wellpath: VH - Job 32K1009433/444 Survey Calculation Method: Minimum Curvature Db: Sybase

Survey: 10/18/09 & 10/24/09 Start Date: 10/18/2009
Company: Scientific Drilling International Engineer: Melendez/Guebara/Rowe/Williams
Tool: Keeper, Keeper Gyro Tied-to: From Surface

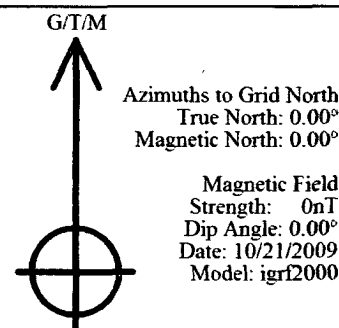
Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
8649.00	5.43	129.96	8643.71	126.59	72.97	104.51	0.00	127.47	55.08
8678.00	4.39	138.35	8672.61	127.36	71.26	106.30	4.35	127.98	56.16
8710.00	3.91	146.92	8704.52	127.74	69.43	107.71	2.45	128.15	57.19
8741.00	3.27	164.12	8735.46	127.64	67.70	108.53	4.02	127.91	58.04
8773.00	2.84	188.48	8767.42	126.97	66.04	108.66	4.24	127.15	58.71
8804.00	2.92	208.96	8798.38	125.85	64.59	108.17	3.31	125.98	59.16
8836.00	3.28	219.33	8830.33	124.32	63.16	107.19	2.08	124.42	59.49
8868.00	4.48	220.69	8862.26	122.30	61.51	105.80	3.76	122.38	59.83
8899.00	4.88	221.23	8893.16	119.94	59.60	104.14	1.30	119.99	60.22
8931.00	5.02	221.64	8925.04	117.35	57.53	102.31	0.45	117.38	60.65
8963.00	4.45	223.59	8956.93	114.86	55.58	100.52	1.85	114.87	61.06
8994.00	4.27	224.45	8987.84	112.61	53.89	98.89	0.62	112.62	61.41
9026.00	4.29	222.59	9019.75	110.35	52.16	97.24	0.44	110.35	61.79

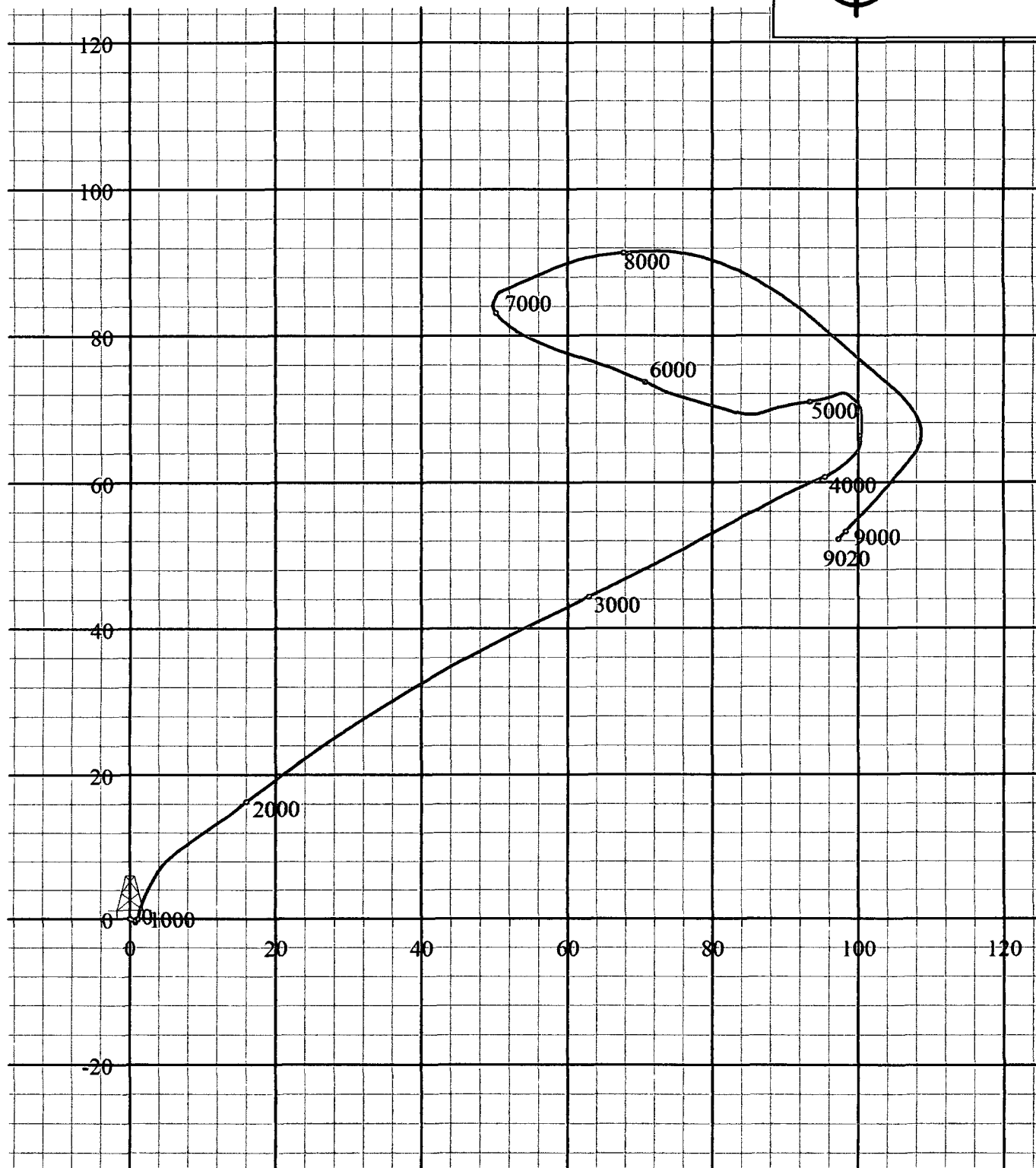


**Scientific
Drilling**

Field: Wildcat
Site: Lea County, NM
Well: Langley 21 Com #1
Wellpath: VH - Job 32K1009433/444
Survey: 10/18/09 & 10/24/09



South(-)/North(+) [20ft/in]



West(-)/East(+) [20ft/in]



Phone: 432.561.8801

Fax: 432.561.8870

P.O. Box 2552

Midland, Texas 79702

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Well Completion Report

Nadel Gussman
Langley 21 #1
Patriot Rig 1
Lea Co, NM
Job #2009041

November 4, 2009

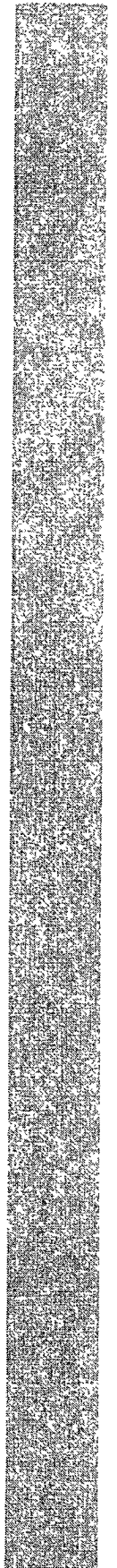
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Survey Report

Company:	Nadel & Gusman	Local Co-ordinate Reference:	Site Langley 21 #1
Project:	Lea County, NM	TVD Reference:	KB @ 3468 50ft (Patriot #1)
Site:	Langley 21 #1	MD Reference:	KB @ 3468 50ft (Patriot #1)
Well:	Langley 21 #1	North Reference:	Grid
Wellbore:	Sidetrack #1	Survey Calculation Method:	Minimum Curvature
Design:	Sidetrack #1	Database:	EDM 5000 1 Black Viper

Project	Lea County, NM		
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	Langley 21 #1			
Site Position:		Northing:	471,479 30 ft	Latitude: 32° 17' 30.046 N
From:	Map	Easting:	830,528 40 ft	Longitude: 103° 15' 49.416 W
Position Uncertainty:	0 00 ft	Slot Radius:	0 "	Grid Convergence: 0 57 °

Well	Langley 21 #1			
Well Position	+N/-S	0 00 ft	Northing:	471,479 30 ft
	+E/-W	0 00 ft	Easting:	830,528 40 ft
Position Uncertainty	0 00 ft		Wellhead Elevation:	3,468 50 ft
			Ground Level:	3,450 00 ft

Wellbore	Sidetrack #1				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
	IGRF200510	10/24/2009	(°)	(°)	(nT)
			7 63	60 36	48,886

Design	Sidetrack #1				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	8,400 00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction	
	(ft)	(ft)	(ft)	(°)	
	0.00	0.00	0 00	54 75	

Survey Program	Date 11/3/2009				
From	To	Survey (Wellbore)	Tool Name	Description	
(ft)	(ft)				
100.00	8,400.00	Gyro Survey #1 (OH)			
8,400.00	10,600.00	MWD Survey #1 (Sidetrack #1)			

Survey										
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Vertical Section	Dogleg Rate	Build Rate	Turn Rate	
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	(°/100ft)	(°/100ft)	
8,400 00	4 10	122 47	8,395 61	86 29	88 23	121 85	0 00	0 00	0 00	
8,500 00	4 60	128 10	8,495 32	81.89	94.40	124.36	0.66	0.50	5.63	
First MWD Survey										
8,543.00	3.90	138 80	8,538 20	79 73	96.72	125.00	2 45	-1.63	24.88	
8,575 00	3.60	147.10	8,570 14	78.07	97 98	125 07	1.94	-0 94	25.94	
8,600.00	3.60	154 40	8,595.09	76.70	98.75	124.91	1 83	0 00	29 20	
8,638.00	3.20	161.40	8,633.02	74.62	99.60	124.41	1 52	-1.05	18.42	
8,670.00	2 70	161.90	8,664.98	73.05	100.12	123.93	1 56	-1 56	1.56	
8,700.00	2.80	169 00	8,694 94	71 66	100.48	123 42	1.18	0 33	23.67	
8,733 00	2.90	179.80	8,727.90	70 04	100.64	122 61	1 65	0 30	32 73	

Survey Report

Company: Nadel & Gusman
 Project: Lea County, NM
 Site: Langley 21 #1
 Well: Langley 21 #1
 Wellbore: Sidetrack #1
 Design: Sidetrack #1

Local Co-ordinate Reference: Site Langley 21 #1
 TVD Reference: KB @ 3468.50ft (Patriot #1)
 MD Reference: KB @ 3468.50ft (Patriot #1)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EDM 5000.1 Black Viper

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
8,765.00	2.80	189.60	8,759.86	68.46	100.51	121.59	1.55	-0.31	30.63
8,797.00	3.20	198.40	8,791.82	66.84	100.10	120.32	1.90	1.25	27.50
8,828.00	3.60	203.30	8,822.76	65.12	99.44	118.79	1.59	1.29	15.81
8,859.00	3.90	207.90	8,853.70	63.30	98.56	117.02	1.37	0.97	14.84
8,890.00	4.40	209.60	8,884.62	61.33	97.48	115.01	1.66	1.61	5.48
8,922.00	4.80	205.60	8,916.51	59.06	96.30	112.73	1.60	1.25	-12.50
8,954.00	5.10	206.40	8,948.39	56.58	95.09	110.30	0.96	0.94	2.50
8,985.00	4.90	203.30	8,979.28	54.13	93.95	107.96	1.08	-0.65	-10.00
9,016.00	5.10	207.20	9,010.16	51.69	92.80	105.61	1.27	0.65	12.58
9,048.00	4.70	207.30	9,042.04	49.26	91.54	103.19	1.25	-1.25	0.31
9,080.00	4.40	207.60	9,073.94	47.00	90.37	100.93	0.94	-0.94	0.94
9,111.00	4.40	205.70	9,104.85	44.88	89.31	98.83	0.47	0.00	-6.13
9,143.00	4.60	196.50	9,136.75	42.54	88.41	96.75	2.34	0.63	-28.75
9,175.00	4.20	194.10	9,168.66	40.17	87.76	94.85	1.38	-1.25	-7.50
9,206.00	4.40	196.50	9,199.57	37.93	87.15	93.06	0.87	0.65	7.74
9,238.00	4.10	196.60	9,231.48	35.66	86.47	91.20	0.94	-0.94	0.31
9,270.00	4.20	198.10	9,263.40	33.45	85.78	89.36	0.46	0.31	4.69
9,301.00	4.30	200.90	9,294.31	31.28	85.01	87.48	0.74	0.32	9.03
9,333.00	4.20	202.60	9,326.22	29.08	84.14	85.49	0.50	-0.31	5.31
9,365.00	4.30	197.00	9,358.14	26.85	83.33	83.55	1.33	0.31	-17.50
9,395.00	4.40	199.90	9,388.05	24.70	82.61	81.72	0.81	0.33	9.67
9,430.00	4.30	206.30	9,422.95	22.26	81.58	79.46	1.42	-0.29	18.29
9,459.00	4.30	205.60	9,451.87	20.30	80.62	77.56	0.18	0.00	-2.41
9,491.00	4.30	207.90	9,483.78	18.16	79.54	75.44	0.54	0.00	7.19
9,523.00	4.20	203.00	9,515.69	16.02	78.53	73.37	1.18	-0.31	-15.31
9,554.00	4.20	193.40	9,546.61	13.87	77.82	71.55	2.27	0.00	-30.97
9,586.00	4.00	196.20	9,578.53	11.66	77.24	69.80	0.88	-0.63	8.75
9,618.00	4.10	195.40	9,610.45	9.49	76.62	68.04	0.36	0.31	-2.50
9,650.00	4.00	197.90	9,642.37	7.32	75.97	66.26	0.63	-0.31	7.81
9,681.00	4.10	200.30	9,673.29	5.25	75.26	64.49	0.63	0.32	7.74
9,713.00	4.20	202.80	9,705.20	3.10	74.41	62.55	0.65	0.31	7.81
9,744.00	3.90	205.00	9,736.13	1.10	73.52	60.67	1.09	-0.97	7.10
9,776.00	4.20	204.10	9,768.05	-0.96	72.58	58.72	0.96	0.94	-2.81
9,808.00	4.10	201.20	9,799.96	-3.10	71.69	56.75	0.73	-0.31	-9.06
9,839.00	4.00	206.60	9,830.89	-5.10	70.80	54.88	1.27	-0.32	17.42
9,871.00	4.10	207.60	9,862.81	-7.11	69.78	52.88	0.38	0.31	3.13
9,903.00	3.80	211.40	9,894.73	-9.03	68.69	50.88	1.24	-0.94	11.88
9,935.00	4.10	210.80	9,926.65	-10.91	67.55	48.87	0.95	0.94	-1.88
9,967.00	4.50	206.50	9,958.56	-13.02	66.41	46.71	1.60	1.25	-13.44
9,999.00	4.70	202.90	9,990.46	-15.35	65.34	44.49	1.10	0.63	-11.25
10,030.00	4.80	202.70	10,021.35	-17.72	64.34	42.32	0.33	0.32	-0.65
10,062.00	4.70	207.60	10,053.24	-20.11	63.22	40.01	1.31	-0.31	15.31
10,094.00	4.40	206.00	10,085.14	-22.38	62.07	37.77	1.02	-0.94	-5.00

Survey Report

Company: Nadel & Gusman
Project: Lea County, NM
Site: Langley 21 #1
Well: Langley 21 #1
Wellbore: Sidetrack #1
Design: Sidetrack #1

Local Co-ordinate Reference: Site Langley 21 #1
TVD Reference: KB @ 3468.50ft (Patriot #1)
MD Reference: KB @ 3468.50ft (Patriot #1)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Black Viper

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
10,126.00	4.00	212.60	10,117.06	-24.42	60.93	35.66	1.96	-1.25	20.63
10,157.00	3.60	213.00	10,147.99	-26.15	59.82	33.76	1.29	-1.29	1.29
10,189.00	2.90	209.60	10,179.94	-27.70	58.87	32.09	2.27	-2.19	-10.63
10,221.00	3.00	205.60	10,211.90	-29.16	58.11	30.63	0.71	0.31	-12.50
10,253.00	2.60	209.30	10,243.86	-30.54	57.40	29.24	1.37	-1.25	11.56
10,284.00	2.20	203.20	10,274.83	-31.70	56.82	28.10	1.53	-1.29	-19.68
10,316.00	2.20	209.20	10,306.81	-32.80	56.28	27.02	0.72	0.00	18.75
10,347.00	2.20	216.50	10,337.78	-33.80	55.63	25.92	0.90	0.00	23.55
10,379.00	1.90	212.30	10,369.76	-34.74	54.98	24.84	1.05	-0.94	-13.13
10,411.00	1.60	208.60	10,401.75	-35.59	54.49	23.95	1.00	-0.94	-11.56
10,443.00	1.30	220.10	10,433.74	-36.25	54.04	23.20	1.30	-0.94	35.94
10,474.00	0.90	213.30	10,464.73	-36.73	53.68	22.63	1.36	-1.29	-21.94
10,506.00	0.40	228.60	10,496.73	-37.01	53.46	22.29	1.64	-1.56	47.81
10,538.00	0.40	354.80	10,528.73	-36.97	53.36	22.23	2.23	0.00	394.38
10,563.00	0.40	29.20	10,553.73	-36.81	53.40	22.36	0.95	0.00	137.60
Last MWD Survey									
10,600.00	0.40	29.20	10,590.73	-36.59	53.52	22.59	0.00	0.00	0.00
Proj. to Bit - PBHL#1[L21#1]									

Survey Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
8,500.00	8,495.32	81.89	94.40	First MWD Survey
10,563.00	10,553.73	-36.81	53.40	Last MWD Survey
10,600.00	10,590.73	-36.59	53.52	Proj to Bit

Checked By: _____ Approved By: _____ Date: _____