

Sata Directional Technology, Inc.

Survey Report

Company: SOUTHWESTERN ENERGY COMPANY		Date: 10/17/2007	Time: 10:10:55	Page: 1
Field: Eddy County, NM		Co-ordinate(NE) Reference: Well: #3H, Grid North		
Site: Corral Fly Federal #3H		Vertical (TVD) Reference: Est.3024'GL+15'KB 3039.0		
Well: #3H		Section (VS) Reference: Well (0.00N,0.00E,359.99Azi)		
Wellpath: Original Hole		Survey Calculation Method: Minimum Curvature Db: Adapti		

Field: Eddy County, NM	
Map System: US State Plane Coordinate System 1927	Map Zone: New Mexico, Eastern Zone
Geo Datum: NAD27 (Clarke 1866)	Coordinate System: Well Centre
Sys Datum: Mean Sea Level	Geomagnetic Model: igrf2005

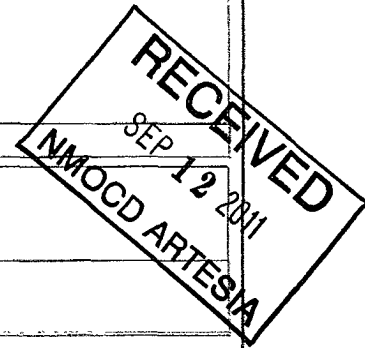
Site: Corral Fly Federal #3H	
T25S R29E Sec10	
Site Position:	Northings: 416619.80 ft Latitude: 32 8 41.623 N
From: Map	Easting: 611114.20 ft Longitude: 103 58 27.587 W
Position Uncertainty: 0.00 ft	North Reference: Grid
Ground Level: 3024.00 ft	Grid Convergence: 0.19 deg

Well: #3H		Slot Name:	
Well Position:	+N/-S 0.00 ft Northing: 416619.80 ft Latitude: 32 8 41.623 N		
	+E/-W 0.00 ft Easting: 611114.20 ft Longitude: 103 58 27.587 W		
Position Uncertainty:	0.00 ft		

Wellpath: Original Hole		Drilled From: Surface	
Current Datum: Est.3024'GL+15'KB	Height 3039.00 ft	Tie-on Depth: 0.00 ft	
Magnetic Data: 09/21/2007		Above System Datum: Mean Sea Level	
Field Strength: 48943 nT		Declination: 8.20 deg	
Vertical Section: Depth From (TVD)	+N/-S	Mag Dip Angle: 60.14 deg	
ft	ft	+E/-W	Direction
		ft	deg
0.00	0.00	0.00	359.99

Survey Program for Definitive Wellpath			
Date: 10/17/2007	Validated: No	Version: 0	
Actual From	To	Survey	Tool Name
ft	ft		
200.00	4615.00	Survey #1 (200.00-4615.00)	Gyroscope
4640.00	7286.00	Survey #2 (4640.00-7286.00)	Std MWD
7331.00	7331.00	Survey #3 (7331.00-7331.00)	Projection

Survey										
MD	Incl	Azim	TVD	+N/-S	+E/-W	VS	DLS	Build	Turn	Tool/Comment
ft	deg	deg	ft	ft	ft	ft	deg/100ft	deg/100ft	deg/100ft	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	TIE LINE
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00	Gyroscope
400.00	0.25	85.37	400.00	0.04	0.43	0.04	0.12	0.12	0.00	Gyroscope
600.00	0.25	323.35	600.00	0.42	0.61	0.42	0.22	0.00	-61.01	Gyroscope
800.00	0.25	198.34	800.00	0.36	0.21	0.36	0.22	0.00	-62.50	Gyroscope
1000.00	0.25	284.33	1000.00	0.05	-0.35	0.05	0.17	0.00	42.99	Gyroscope
1200.00	0.25	291.31	1199.99	0.32	-1.18	0.32	0.02	0.00	3.49	Gyroscope
1400.00	0.25	191.30	1399.99	0.05	-1.67	0.05	0.19	0.00	-50.00	Gyroscope
1600.00	0.25	85.25	1599.99	-0.34	-1.32	-0.34	0.20	0.00	-53.02	Gyroscope
1800.00	0.25	212.24	1799.99	-0.68	-1.12	-0.68	0.22	0.00	63.49	Gyroscope
2000.00	0.00	0.00	1999.99	-1.05	-1.35	-1.05	0.12	-0.12	0.00	Gyroscope
2200.00	0.25	333.22	2199.99	-0.66	-1.55	-0.66	0.12	0.12	0.00	Gyroscope
2400.00	0.75	53.21	2399.98	0.52	-0.70	0.52	0.37	0.25	40.00	Gyroscope
2600.00	1.25	96.20	2599.95	1.07	2.52	1.06	0.43	0.25	21.49	Gyroscope
2800.00	2.00	111.21	2799.87	-0.43	7.94	-0.43	0.43	0.37	7.50	Gyroscope
3000.00	1.25	88.24	2999.79	-1.63	13.38	-1.63	0.49	-0.37	-11.48	Gyroscope
3200.00	0.75	110.28	3199.76	-2.02	16.79	-2.02	0.31	-0.25	11.02	Gyroscope
3400.00	0.50	137.33	3399.75	-3.11	18.61	-3.11	0.19	-0.12	13.52	Gyroscope
3600.00	0.25	130.37	3599.75	-4.04	19.53	-4.04	0.13	-0.12	-3.48	Gyroscope
3800.00	0.75	122.41	3799.74	-5.02	20.97	-5.02	0.25	0.25	-3.98	Gyroscope
4000.00	0.50	174.50	3999.73	-6.59	22.16	-6.59	0.30	-0.12	26.04	Gyroscope



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Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
4200.00	0.50	157.54	4199.72	-8.26	22.57	-8.27	0.07	0.00	-8.48	Gyroscope
4400.00	0.50	160.63	4399.71	-9.89	23.20	-9.90	0.01	0.00	1.54	Gyroscope
4600.00	0.25	225.93	4599.71	-11.02	23.17	-11.03	0.23	-0.12	32.65	Gyroscope
4615.00	0.25	219.01	4614.71	-11.07	23.13	-11.07	0.20	0.00	-46.13	Gyroscope
4640.00	0.00	337.10	4639.71	-11.11	23.09	-11.12	1.00	-1.00	0.00	MWD
4659.00	0.50	161.40	4658.71	-11.19	23.12	-11.19	2.63	2.63	0.00	MWD
4691.00	0.70	18.40	4690.71	-11.14	23.23	-11.14	3.56	0.62	-446.87	MWD
4723.00	3.90	0.60	4722.68	-9.86	23.30	-9.87	10.13	10.00	-55.62	MWD
4755.00	8.20	351.80	4754.49	-6.51	22.98	-6.52	13.71	13.44	-27.50	MWD
4787.00	12.80	351.10	4785.95	-0.75	22.11	-0.75	14.38	14.37	-2.19	MWD
4819.00	17.20	352.50	4816.85	7.45	20.94	7.44	13.80	13.75	4.37	MWD
4851.00	20.00	352.60	4847.18	17.57	19.62	17.56	8.75	8.75	0.31	MWD
4882.00	22.70	353.40	4876.05	28.77	18.25	28.76	8.76	8.71	2.58	MWD
4914.00	26.40	354.10	4905.15	41.98	16.81	41.98	11.60	11.56	2.19	MWD
4946.00	30.40	354.50	4933.29	57.12	15.30	57.12	12.51	12.50	1.25	MWD
4978.00	34.20	355.40	4960.34	74.15	13.80	74.15	11.97	11.87	2.81	MWD
5010.00	38.20	356.40	4986.15	93.00	12.46	93.00	12.64	12.50	3.12	MWD
5041.00	41.80	356.40	5009.90	112.88	11.21	112.88	11.61	11.61	0.00	MWD
5073.00	45.50	357.80	5033.05	134.94	10.10	134.94	11.95	11.56	4.37	MWD
5105.00	49.40	358.20	5054.68	158.50	9.28	158.49	12.22	12.19	1.25	MWD
5137.00	52.10	358.10	5074.93	183.26	8.48	183.26	8.44	8.44	-0.31	MWD
5168.00	54.40	357.80	5093.47	208.08	7.59	208.08	7.46	7.42	-0.97	MWD
5200.00	57.70	358.10	5111.34	234.61	6.64	234.60	10.34	10.31	0.94	MWD
5232.00	61.30	358.50	5127.58	262.16	5.83	262.16	11.30	11.25	1.25	MWD
5264.00	64.80	359.00	5142.08	290.67	5.21	290.67	11.03	10.94	1.56	MWD
5296.00	68.40	358.80	5154.79	320.03	4.64	320.03	11.26	11.25	-0.62	MWD
5327.00	72.20	359.00	5165.24	349.21	4.08	349.21	12.27	12.26	0.65	MWD
5359.00	76.60	359.30	5173.84	380.02	3.63	380.02	13.78	13.75	0.94	MWD
5391.00	80.70	359.90	5180.14	411.38	3.41	411.38	12.94	12.81	1.87	MWD
5423.00	84.90	0.60	5184.15	443.12	3.55	443.12	13.30	13.12	2.19	MWD
5455.00	86.50	1.00	5186.55	475.03	3.99	475.03	5.15	5.00	1.25	MWD
5487.00	86.90	1.20	5188.39	506.97	4.61	506.97	1.40	1.25	0.62	MWD
5519.00	86.70	1.00	5190.17	538.92	5.22	538.91	0.88	-0.62	-0.62	MWD
5550.00	86.40	0.90	5192.04	569.85	5.73	569.85	1.02	-0.97	-0.32	MWD
5582.00	86.20	0.70	5194.10	601.78	6.18	601.78	0.88	-0.62	-0.62	MWD
5616.00	86.10	0.80	5196.39	635.71	6.62	635.70	0.42	-0.29	0.29	MWD
5648.00	86.10	0.70	5198.56	667.63	7.04	667.63	0.31	0.00	-0.31	MWD
5679.00	86.10	0.80	5200.67	698.55	7.45	698.55	0.32	0.00	0.32	MWD
5711.00	87.10	0.90	5202.57	730.49	7.92	730.49	3.14	3.12	0.31	MWD
5743.00	87.00	0.80	5204.22	762.45	8.39	762.45	0.44	-0.31	-0.31	MWD
5773.00	86.90	0.90	5205.81	792.40	8.84	792.40	0.47	-0.33	0.33	MWD
5805.00	87.10	0.80	5207.49	824.35	9.31	824.35	0.70	0.62	-0.31	MWD
5836.00	88.10	0.80	5208.79	855.32	9.89	855.32	3.29	3.23	-0.66	MWD
5869.00	88.60	0.70	5209.74	888.31	10.06	888.31	1.55	1.52	0.30	MWD
5900.00	88.70	0.30	5210.47	919.30	10.34	919.30	1.33	0.32	-1.29	MWD
5932.00	88.90	0.60	5211.14	951.29	10.59	951.29	1.13	0.62	0.94	MWD
5964.00	89.80	0.80	5211.50	983.29	10.98	983.28	2.88	2.81	0.62	MWD
5996.00	89.40	0.10	5211.72	1015.28	11.23	1015.28	2.52	-1.25	-2.19	MWD
6028.00	89.80	0.40	5211.95	1047.28	11.37	1047.28	1.56	1.25	0.94	MWD
6060.00	88.70	0.60	5212.37	1079.28	11.65	1079.28	3.49	-3.44	0.62	MWD
6092.00	88.70	0.80	5213.09	1111.27	12.04	1111.27	0.62	0.00	0.62	MWD
6124.00	90.80	1.00	5213.23	1143.26	12.54	1143.26	6.59	6.56	0.62	MWD
6155.00	92.50	1.20	5212.34	1174.24	13.14	1174.24	5.52	5.48	0.65	MWD
6187.00	92.60	0.80	5210.92	1206.21	13.69	1206.20	1.29	0.31	-1.25	MWD

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 Field: Eddy County, NM
 Site: Corral Fly Federal #3H
 Well: #3H
 Wellpath: Original Hole

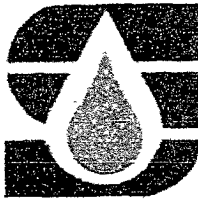
Date: 10/17/2007 Time: 10:10:55 Page: 3
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 Section (VS) Reference: Well (0.00N,0.00E,359.99Azi)
 Survey Calculation Method: Minimum Curvature Db: Adapti

Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
6219.00	92.40	0.20	5209.52	1238.17	13.97	1238.17	1.97	-0.62	-1.87	MWD
6251.00	92.30	359.80	5208.21	1270.15	13.97	1270.14	1.29	-0.31	-1.25	MWD
6283.00	92.50	359.40	5206.87	1302.12	13.75	1302.12	1.40	0.62	-1.25	MWD
6315.00	92.80	359.50	5205.39	1334.08	13.44	1334.08	0.99	0.94	0.31	MWD
6347.00	92.10	359.10	5204.02	1366.05	13.05	1366.05	2.52	-2.19	-1.25	MWD
6377.00	91.30	358.80	5203.13	1396.03	12.50	1396.03	2.85	-2.67	-1.00	MWD
6409.00	91.30	358.70	5202.40	1428.02	11.80	1428.01	0.31	0.00	-0.31	MWD
6440.00	91.60	358.60	5201.62	1459.00	11.07	1459.00	1.02	0.97	-0.32	MWD
6472.00	91.70	358.60	5200.70	1490.97	10.29	1490.97	0.31	0.31	0.00	MWD
6504.00	91.50	358.90	5199.80	1522.95	9.60	1522.95	1.13	-0.62	0.94	MWD
6536.00	91.50	359.00	5198.97	1554.94	9.01	1554.94	0.31	0.00	0.31	MWD
6568.00	91.60	358.90	5198.10	1586.92	8.42	1586.92	0.44	0.31	-0.31	MWD
6600.00	91.50	358.80	5197.24	1618.90	7.78	1618.90	0.44	-0.31	-0.31	MWD
6632.00	91.30	359.00	5196.45	1650.89	7.17	1650.89	0.88	-0.62	0.62	MWD
6664.00	91.50	358.90	5195.67	1682.87	6.58	1682.87	0.70	0.62	-0.31	MWD
6695.00	92.00	358.70	5194.73	1713.85	5.93	1713.85	1.74	1.61	-0.65	MWD
6727.00	92.80	359.10	5193.39	1745.82	5.32	1745.82	2.79	2.50	1.25	MWD
6759.00	93.20	359.00	5191.71	1777.77	4.79	1777.77	1.29	1.25	-0.31	MWD
6791.00	91.70	359.20	5190.34	1809.73	4.29	1809.73	4.73	-4.69	0.62	MWD
6823.00	91.40	359.00	5189.48	1841.72	3.78	1841.72	1.13	-0.94	-0.62	MWD
6855.00	91.30	359.00	5188.72	1873.70	3.23	1873.70	0.31	-0.31	0.00	MWD
6887.00	91.30	359.00	5188.00	1905.69	2.67	1905.69	0.00	0.00	0.00	MWD
6918.00	91.40	359.00	5187.27	1936.68	2.13	1936.68	0.32	0.32	0.00	MWD
6950.00	91.30	359.00	5186.51	1968.66	1.57	1968.66	0.31	-0.31	0.00	MWD
6982.00	91.20	359.20	5185.81	2000.65	1.07	2000.65	0.70	-0.31	0.62	MWD
7014.00	91.40	359.10	5185.09	2032.64	0.59	2032.64	0.70	0.62	-0.31	MWD
7046.00	91.30	359.10	5184.33	2064.63	0.09	2064.63	0.31	-0.31	0.00	MWD
7078.00	91.20	359.30	5183.64	2096.62	-0.36	2096.62	0.70	-0.31	0.62	MWD
7110.00	91.00	359.30	5183.02	2128.61	-0.75	2128.61	0.62	-0.62	0.00	MWD
7141.00	91.00	359.10	5182.48	2159.60	-1.18	2159.60	0.65	0.00	-0.65	MWD
7173.00	91.30	359.20	5181.84	2191.59	-1.66	2191.59	0.99	0.94	0.31	MWD
7205.00	91.10	359.20	5181.17	2223.58	-2.10	2223.58	0.62	-0.62	0.00	MWD
7237.00	91.00	358.90	5180.58	2255.57	-2.63	2255.57	0.99	-0.31	-0.94	MWD
7269.00	91.00	359.10	5180.02	2287.56	-3.19	2287.56	0.62	0.00	0.62	MWD
7286.00	91.10	359.00	5179.71	2304.56	-3.47	2304.56	0.83	0.59	-0.59	MWD
7331.00	91.10	359.00	5178.85	2349.54	-4.26	2349.54	0.00	0.00	0.00	PROJECTED to TD

SOUTHWESTERN ENERGY COMPANY

Field: Eddy County, NM
 Site: Corral Fly Federal #3H
 Well: #3H
 Wellpath: Original Hole



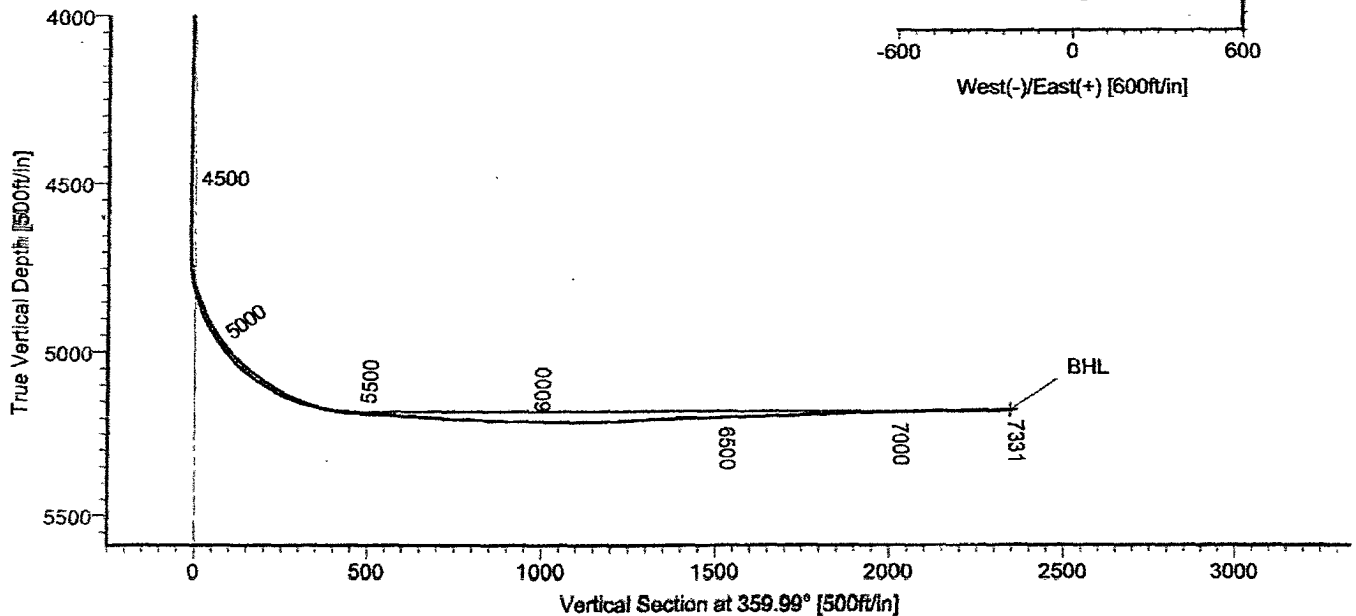
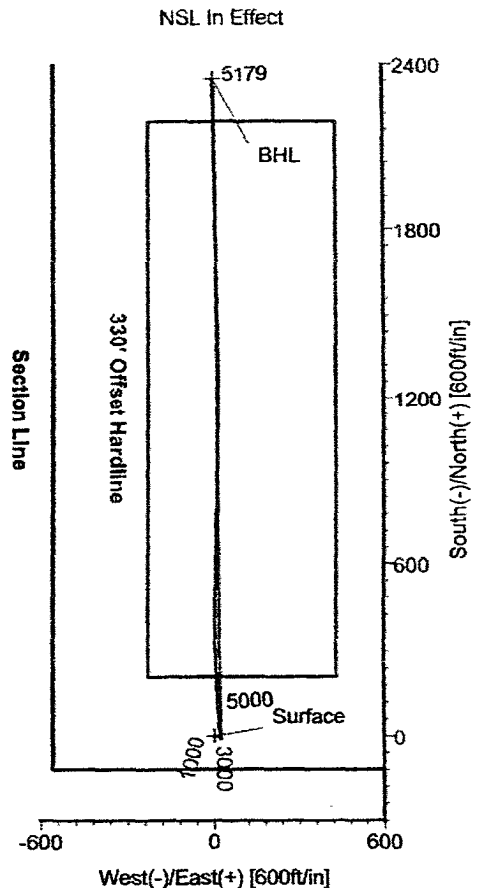
Azimuths to Grid North
 True North: -0.19°
 Magnetic North: 8.01°

Magnetic Field
 Strength: 48943nT
 Dip Angle: 60.14°
 Date: 09/21/2007
 Model: igrt2005

Section and Hardlines
 Estimated by Strata Directional

LEGEND

— #3H, Original Hole, Plan #4 proj
 — Original Hole



TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
Surface	0.00	0.00	0.00	416619.80	611114.20	Point
BHL	5178.85	2349.54	-4.26	418969.34	611109.94	Point

STRATA
 DIRECTIONAL TECHNOLOGY, INC.

STRATA DIRECTIONAL TECHNOLOGY, INC.
 1034 Regional Park Drive Houston, Texas 77060
 Phone: 713-934-9600 Fax: 713-934-9067

Wellpath: (#3H/Original Hole)

Created By: Mekka Williams

Date: 10/17/2007

Checked: _____

Date: _____