

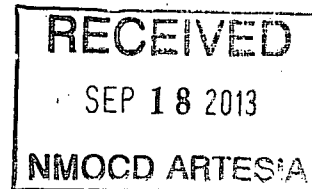


A GYRO TECHNOLOGIES INC. COMPANY

PO Box 261021
Corpus Christi, Texas 78426
(361) 767-0602 • (800) 606-GYRO • Fax (361) 767-0612

July 2, 2013

Concho Resources, Inc.
One Concho Center
600 W. Illinois Avenue
Midland, Texas 79701



Attn: Kanicia Castillo

15-40369

RE: **Way South State Com No. 003H**

Please find enclosed a copy of the survey from 0.00' to 7183.00' ran on the above referenced well.

Sincerely,


Keith Havelka
Operations

STATE OF TEXAS §
 §
COUNTY OF NUECES §

This instrument was acknowledged before me on the 2nd day of July,
A.D., 2013, by Keith Havelka.





Laura Ballew
Notary Public, State of Texas



Company: COG Operating, LLC (Concho)
Lease/Well: Way South State Com/No. 003H
Location: S30 T26s R28e
Rig Name: Silver Oak 7
State/County: New Mexico/Eddy
Latitude: 32.02, Longitude: -104.13
GRID North is 0.11 Degrees East of True North
VS-Azi: 0.00 Degrees



RKB : 19 Feet

DRILLOG HA GYRO SURVEY CALCULATIONS

Filename: ... state com #3h gyro survey.ut

Minimum Curvature Method

Report Date/Time: 7/2/2013 / 11:49

Vaughn Energy Services

Gardendale, TX 79758

(432) 563-5444

Surveyor: Dustin Wedel

Way South State Com No. 003H / API 30-015-40369



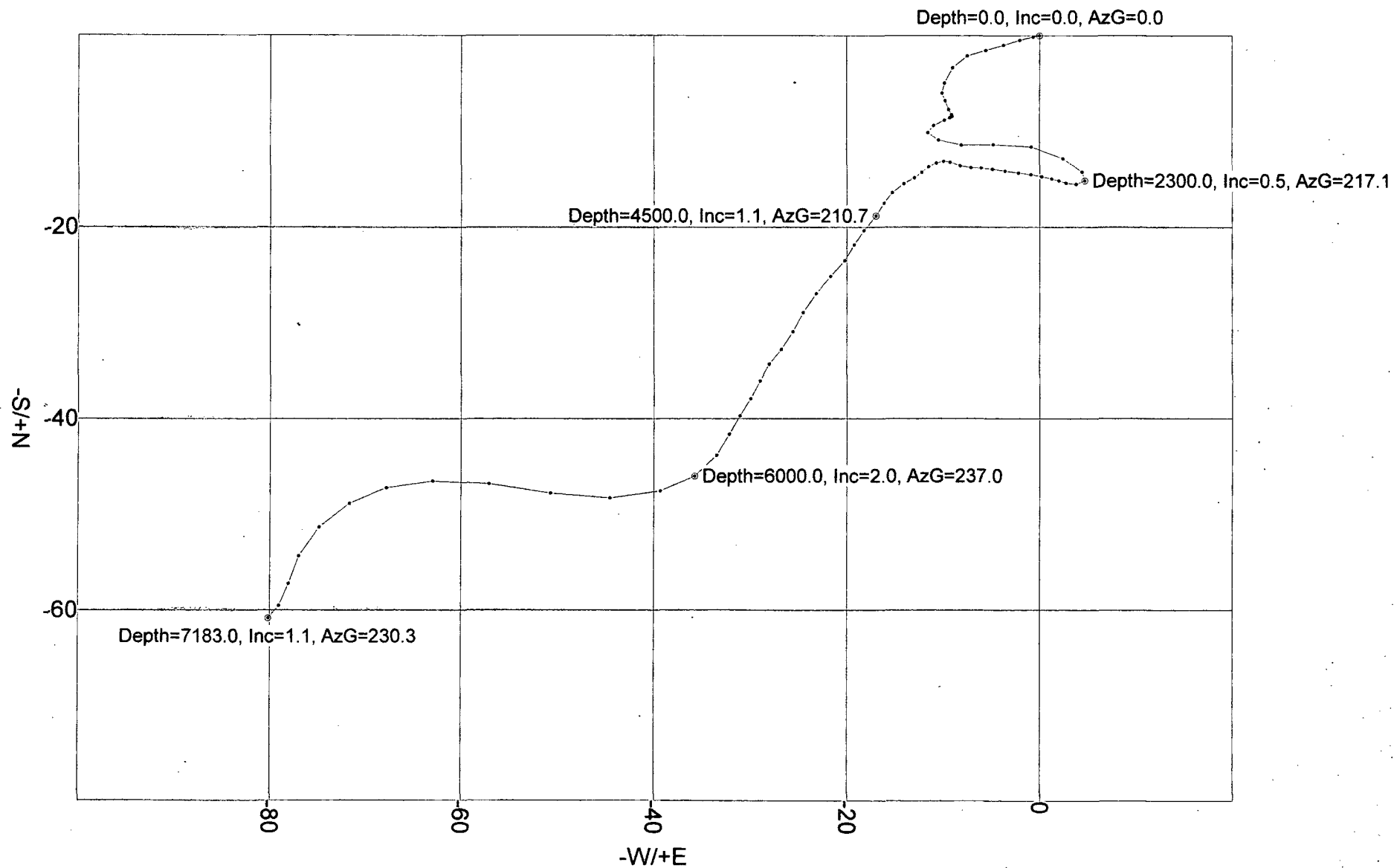
Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	****
100.00	0.79	258.29	100.00	-0.14	-0.67	0.69	258.29	0.79
200.00	0.84	254.75	199.99	-0.47	-2.06	2.11	257.06	0.08
300.00	1.17	252.20	299.97	-0.98	-3.74	3.86	255.33	0.33
400.00	1.03	255.20	399.95	-1.52	-5.58	5.78	254.76	0.15
500.00	1.27	251.52	499.93	-2.10	-7.50	7.79	254.35	0.25
600.00	1.15	208.58	599.91	-3.33	-9.04	9.63	249.76	0.89
700.00	0.95	207.03	699.90	-4.95	-9.89	11.06	243.42	0.20
800.00	0.40	157.71	799.89	-6.01	-10.13	11.78	239.34	0.75
900.00	0.60	157.41	899.88	-6.81	-9.80	11.94	235.20	0.20
1000.00	0.53	160.53	999.88	-7.73	-9.45	12.20	230.72	0.08
1100.00	0.21	128.04	1099.88	-8.27	-9.15	12.33	227.87	0.37
1200.00	0.12	226.53	1199.88	-8.46	-9.08	12.41	227.01	0.26
1300.00	0.21	251.19	1299.88	-8.59	-9.33	12.68	227.35	0.11
1400.00	0.50	243.63	1399.88	-8.85	-9.89	13.27	228.19	0.30
1500.00	0.94	243.54	1499.87	-9.40	-11.01	14.48	229.51	0.44
1600.00	0.47	161.33	1599.86	-10.16	-11.62	15.43	228.82	0.99
1700.00	1.21	110.55	1699.85	-10.92	-10.50	15.15	223.86	0.98
1800.00	1.60	95.99	1799.82	-11.44	-8.12	14.03	215.37	0.53

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
1900.00	2.23	84.75	1899.76	-11.41	-4.79	12.37	202.77	0.73
2000.00	2.32	101.27	1999.69	-11.62	-0.87	11.66	184.26	0.66
2100.00	1.83	121.49	2099.62	-12.85	2.48	13.09	169.10	0.87
2200.00	0.90	134.42	2199.59	-14.23	4.40	14.90	162.84	0.97
2300.00	0.54	217.09	2299.59	-15.16	4.68	15.86	162.86	0.99
2400.00	0.68	271.39	2399.58	-15.52	3.80	15.97	166.23	0.57
2500.00	0.56	283.46	2499.58	-15.39	2.74	15.63	169.90	0.18
2600.00	0.35	294.38	2599.57	-15.15	1.99	15.28	172.51	0.22
2700.00	0.55	276.94	2699.57	-14.96	1.24	15.02	175.27	0.24
2800.00	0.67	288.19	2799.57	-14.73	0.21	14.73	179.18	0.17
2900.00	0.68	274.74	2899.56	-14.49	-0.94	14.52	183.70	0.16
3000.00	0.79	278.97	2999.55	-14.34	-2.21	14.51	188.75	0.12
3100.00	0.82	277.54	3099.54	-14.14	-3.59	14.59	194.25	0.04
3200.00	0.70	278.59	3199.53	-13.95	-4.90	14.79	199.36	0.12
3300.00	0.67	272.88	3299.52	-13.83	-6.09	15.11	203.77	0.08
3400.00	0.55	271.08	3399.52	-13.79	-7.15	15.54	207.41	0.12
3500.00	0.76	285.94	3499.51	-13.60	-8.27	15.92	211.30	0.27
3600.00	0.47	296.86	3599.51	-13.23	-9.28	16.16	215.04	0.31
3700.00	0.38	253.76	3699.50	-13.14	-9.97	16.49	217.18	0.32
3800.00	0.50	259.21	3799.50	-13.32	-10.72	17.09	218.83	0.13
3900.00	0.59	233.05	3899.50	-13.71	-11.56	17.93	220.14	0.26
4000.00	0.47	228.56	3999.49	-14.29	-12.28	18.84	220.68	0.12
4100.00	0.62	237.60	4099.49	-14.85	-13.05	19.77	221.30	0.17
4200.00	0.82	242.41	4199.48	-15.48	-14.14	20.96	222.42	0.21
4300.00	0.92	221.74	4299.47	-16.41	-15.31	22.45	223.02	0.33
4400.00	0.65	214.01	4399.46	-17.48	-16.17	23.81	222.76	0.29
4500.00	1.14	210.75	4499.45	-18.81	-17.00	25.35	222.10	0.49
4600.00	1.14	226.66	4599.43	-20.35	-18.23	27.32	221.86	0.32
4700.00	0.97	199.82	4699.41	-21.83	-19.24	29.10	221.40	0.52
4800.00	1.27	218.69	4799.39	-23.49	-20.22	30.99	220.73	0.47
4900.00	1.24	223.24	4899.37	-25.14	-21.66	33.18	220.74	0.10
5000.00	1.46	218.01	4999.34	-26.94	-23.18	35.54	220.72	0.25
5100.00	1.29	210.61	5099.31	-28.91	-24.54	37.92	220.33	0.25
5200.00	1.31	205.40	5199.28	-30.91	-25.60	40.13	219.64	0.12
5300.00	1.21	221.17	5299.26	-32.74	-26.79	42.30	219.30	0.36
5400.00	1.06	215.72	5399.24	-34.29	-28.03	44.29	219.27	0.19
5500.00	1.25	203.37	5499.22	-36.04	-29.00	46.26	218.83	0.31
5600.00	1.18	211.45	5599.20	-37.91	-29.97	48.33	218.33	0.18
5700.00	1.24	211.83	5699.18	-39.71	-31.08	50.42	218.05	0.06

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
5800.00	1.28	207.66	5799.15	-41.62	-32.17	52.60	217.70	0.10
5900.00	1.69	213.35	5899.12	-43.83	-33.49	55.16	217.38	0.44
6000.00	1.99	236.97	5999.07	-46.01	-35.76	58.27	217.85	0.81
6100.00	2.52	254.50	6098.99	-47.55	-39.34	61.71	219.60	0.86
6200.00	3.53	267.20	6198.85	-48.29	-44.53	65.69	222.69	1.20
6300.00	3.62	281.94	6298.66	-47.78	-50.70	69.67	226.70	0.92
6400.00	3.78	275.85	6398.45	-46.79	-57.07	73.80	230.65	0.42
6500.00	3.00	268.54	6498.28	-46.52	-62.97	78.29	233.54	0.89
6600.00	2.60	253.70	6598.16	-47.23	-67.75	82.59	235.12	0.82
6700.00	2.30	239.96	6698.07	-48.87	-71.67	86.74	235.71	0.66
6800.00	2.38	225.30	6797.98	-51.33	-74.88	90.78	235.57	0.60
6900.00	1.94	202.50	6897.92	-54.36	-77.00	94.26	234.78	0.96
7000.00	1.58	197.07	6997.87	-57.24	-78.06	96.80	233.75	0.40
7100.00	1.32	211.69	7097.84	-59.54	-79.07	98.98	233.02	0.45
7183.00	1.08	230.28	7180.82	-60.85	-80.17	100.64	232.80	0.55



Vaughn Energy Services
Gardendale, TX 79758
(432) 563-5444
Surveyor: Dustin Wedel
Way South State Com No. 003H / API 30-015-40369





Concho Oil and Gas

Eddy County, NM

Way South State Com

Way South State Com 3H

OH

Design: OH

Standard Survey Report

26 June, 2013





Stryker Directional Survey Report



Company:	Concho Oil and Gas	Local Co-ordinate Reference:	Well Way South State Com 3H
Project:	Eddy County, NM	TVD Reference:	RKB = 18' @ 3084.0usft (Silver Oak #7)
Site:	Way South State Com	MD Reference:	RKB = 18' @ 3084.0usft (Silver Oak #7)
Well:	Way South State Com 3H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

Project	Eddy 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	Way South State Com		
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Site Position:		Northing:	370,247.20 usft	Latitude:	32° 1' 3.930 N
From:	Map	Easting:	563,461.80 usft	Longitude:	104° 7' 42.870 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.11 °

Well	Way South State Com 3H					
Well Position	+N/-S	0.0 usft	Northing:	370,247.20 usft	Latitude:	32° 1' 3.930 N
	+E/-W	0.0 usft	Easting:	563,461.80 usft	Longitude:	104° 7' 42.870 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,066.0 usft

Wellbore	OH				
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	6/14/2013	7.58	59.85	48,233

Design	OH				
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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	179.83

Survey Program		Date	6/26/2013		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
100.0	7,183.0	Survey #1 (OH)	GyroFlex		
7,224.0	13,676.0	Survey #2 (OH)	MWD	MWD - Standard	

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)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.79	258.29	100.0	-0.1	-0.7	0.1	0.79	0.79	0.00
200.0	0.84	254.75	200.0	-0.5	-2.1	0.5	0.07	0.05	-3.54
300.0	1.17	252.20	300.0	-1.0	-3.7	1.0	0.33	0.33	-2.55
400.0	1.03	255.20	400.0	-1.5	-5.6	1.5	0.15	-0.14	3.00
500.0	1.27	251.52	499.9	-2.1	-7.5	2.1	0.25	0.24	-3.68
600.0	1.15	208.58	599.9	-3.3	-9.0	3.3	0.89	-0.12	-42.94
700.0	0.95	207.03	699.9	-5.0	-9.9	4.9	0.20	-0.20	-1.55
800.0	0.40	157.71	799.9	-6.0	-10.1	6.0	0.75	-0.55	-49.32
900.0	0.60	157.41	899.9	-6.8	-9.8	6.8	0.20	0.20	-0.30



Stryker Directional Survey Report



Company:	Concho Oil and Gas	Local Co-ordinate Reference:	Well Way South State Com 3H
Project:	Eddy County, NM	TVD Reference:	RKB = 18' @ 3084.0usft (Silver Oak #7)
Site:	Way South State Com	MD Reference:	RKB = 18' @ 3084.0usft (Silver Oak #7)
Well:	Way South State Com 3H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

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)
1,000.0	0.53	160.53	999.9	-7.7	-9.4	7.7	0.08	-0.07	3.12
1,100.0	0.21	128.04	1,099.9	-8.3	-9.1	8.3	0.37	-0.32	-32.49
1,200.0	0.12	226.53	1,199.9	-8.5	-9.1	8.4	0.26	-0.09	98.49
1,300.0	0.21	251.19	1,299.9	-8.6	-9.3	8.6	0.11	0.09	24.66
1,400.0	0.50	243.63	1,399.9	-8.9	-9.9	8.8	0.29	0.29	-7.56
1,500.0	0.94	243.54	1,499.9	-9.4	-11.0	9.4	0.44	0.44	-0.09
1,600.0	0.47	161.33	1,599.9	-10.2	-11.6	10.1	0.99	-0.47	-82.21
1,700.0	1.21	110.55	1,699.9	-10.9	-10.5	10.9	0.98	0.74	-50.78
1,800.0	1.60	95.99	1,799.8	-11.4	-8.1	11.4	0.53	0.39	-14.56
1,900.0	2.23	84.75	1,899.8	-11.4	-4.8	11.4	0.73	0.63	-11.24
2,000.0	2.32	101.27	1,999.7	-11.6	-0.9	11.6	0.66	0.09	16.52
2,100.0	1.83	121.49	2,099.6	-12.9	2.5	12.9	0.87	-0.49	20.22
2,200.0	0.90	134.42	2,199.6	-14.2	4.4	14.3	0.97	-0.93	12.93
2,300.0	0.54	217.09	2,299.6	-15.2	4.7	15.2	0.99	-0.36	82.67
2,400.0	0.68	271.39	2,399.6	-15.5	3.8	15.5	0.57	0.14	54.30
2,500.0	0.56	283.46	2,499.6	-15.4	2.7	15.4	0.18	-0.12	12.07
2,600.0	0.35	294.38	2,599.6	-15.2	2.0	15.2	0.23	-0.21	10.92
2,700.0	0.55	276.94	2,699.6	-15.0	1.2	15.0	0.24	0.20	-17.44
2,800.0	0.67	288.19	2,799.6	-14.7	0.2	14.7	0.17	0.12	11.25
2,900.0	0.68	274.74	2,899.6	-14.5	-1.0	14.5	0.16	0.01	-13.45
3,000.0	0.79	278.97	2,999.5	-14.4	-2.2	14.3	0.12	0.11	4.23
3,100.0	0.82	277.54	3,099.5	-14.2	-3.6	14.1	0.04	0.03	-1.43
3,200.0	0.70	278.59	3,199.5	-14.0	-4.9	14.0	0.12	-0.12	1.05
3,300.0	0.67	272.88	3,299.5	-13.8	-6.1	13.8	0.07	-0.03	-5.71
3,400.0	0.55	271.08	3,399.5	-13.8	-7.2	13.8	0.12	-0.12	-1.80
3,500.0	0.76	285.94	3,499.5	-13.6	-8.3	13.6	0.27	0.21	14.86
3,600.0	0.47	296.86	3,599.5	-13.2	-9.3	13.2	0.31	-0.29	10.92
3,700.0	0.38	253.76	3,699.5	-13.2	-10.0	13.1	0.32	-0.09	-43.10
3,800.0	0.50	259.21	3,799.5	-13.3	-10.7	13.3	0.13	0.12	5.45
3,900.0	0.59	233.05	3,899.5	-13.7	-11.6	13.7	0.26	0.09	-26.16
4,000.0	0.47	228.56	3,999.5	-14.3	-12.3	14.3	0.13	-0.12	-4.49
4,100.0	0.62	237.60	4,099.5	-14.9	-13.1	14.8	0.17	0.15	9.04
4,200.0	0.82	242.41	4,199.5	-15.5	-14.2	15.4	0.21	0.20	4.81
4,300.0	0.92	221.74	4,299.5	-16.4	-15.3	16.4	0.33	0.10	-20.67
4,400.0	0.65	214.01	4,399.5	-17.5	-16.2	17.4	0.29	-0.27	-7.73
4,500.0	1.14	210.75	4,499.4	-18.8	-17.0	18.8	0.49	0.49	-3.26
4,600.0	1.14	226.66	4,599.4	-20.3	-18.2	20.3	0.32	0.00	15.91
4,700.0	0.97	199.82	4,699.4	-21.8	-19.2	21.8	0.52	-0.17	-26.84
4,800.0	1.27	218.69	4,799.4	-23.5	-20.2	23.4	0.47	0.30	18.87
4,900.0	1.24	223.24	4,899.4	-25.1	-21.7	25.1	0.10	-0.03	4.55
5,000.0	1.46	218.01	4,999.3	-26.9	-23.2	26.9	0.25	0.22	-5.23
5,100.0	1.29	210.61	5,099.3	-28.9	-24.5	28.8	0.25	-0.17	-7.40
5,200.0	1.31	205.40	5,199.3	-30.9	-25.6	30.8	0.12	0.02	-5.21



Stryker Directional Survey Report



Company:	Concho Oil and Gas	Local Co-ordinate Reference:	Well Way South State Com 3H
Project:	Eddy County, NM	TVD Reference:	RKB = 18' @ 3084.0usft (Silver Oak #7)
Site:	Way South State Com	MD Reference:	RKB = 18' @ 3084.0usft (Silver Oak #7)
Well:	Way South State Com 3H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

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)
5,300.0	1.21	221.17	5,299.3	-32.7	-26.8	32.7	0.36	-0.10	15.77
5,400.0	1.06	215.72	5,399.2	-34.3	-28.0	34.2	0.18	-0.15	-5.45
5,500.0	1.25	203.37	5,499.2	-36.0	-29.0	35.9	0.31	0.19	-12.35
5,600.0	1.18	211.45	5,599.2	-37.9	-30.0	37.8	0.18	-0.07	8.08
5,700.0	1.24	211.83	5,699.2	-39.7	-31.1	39.6	0.06	0.06	0.38
5,800.0	1.28	207.66	5,799.2	-41.6	-32.2	41.5	0.10	0.04	-4.17
5,900.0	1.69	213.35	5,899.1	-43.8	-33.5	43.7	0.44	0.41	5.69
6,000.0	1.99	236.97	5,999.1	-46.0	-35.8	45.9	0.81	0.30	23.62
6,100.0	2.52	254.50	6,099.0	-47.6	-39.3	47.4	0.86	0.53	17.53
6,200.0	3.53	267.20	6,198.9	-48.3	-44.5	48.2	1.21	1.01	12.70
6,300.0	3.62	281.94	6,298.7	-47.8	-50.7	47.6	0.92	0.09	14.74
6,400.0	3.78	275.85	6,398.5	-46.8	-57.1	46.6	0.42	0.16	-6.09
6,500.0	3.00	268.54	6,498.3	-46.5	-63.0	46.3	0.89	-0.78	-7.31
6,600.0	2.60	253.70	6,598.2	-47.2	-67.7	47.0	0.82	-0.40	-14.84
6,700.0	2.30	239.96	6,698.1	-48.9	-71.7	48.7	0.66	-0.30	-13.74
6,800.0	2.38	225.30	6,798.0	-51.3	-74.9	51.1	0.60	0.08	-14.66
6,900.0	1.94	202.50	6,897.9	-54.4	-77.0	54.1	0.96	-0.44	-22.80
7,000.0	1.58	197.07	6,997.9	-57.2	-78.0	57.0	0.40	-0.36	-5.43
7,100.0	1.32	211.69	7,097.8	-59.5	-79.1	59.3	0.45	-0.26	14.62
7,183.0	1.08	230.28	7,180.8	-60.9	-80.2	60.6	0.55	-0.29	22.40
7,224.0	0.90	236.30	7,221.8	-61.3	-80.7	61.0	0.51	-0.44	14.68
7,255.0	1.10	221.40	7,252.8	-61.6	-81.1	61.4	1.05	0.65	-48.06
7,286.0	2.50	189.40	7,283.8	-62.5	-81.4	62.3	5.39	4.52	-103.23
7,318.0	6.20	172.70	7,315.7	-64.9	-81.3	64.7	12.10	11.56	-52.19
7,350.0	10.10	166.90	7,347.4	-69.4	-80.5	69.1	12.44	12.19	-18.13
7,382.0	14.20	165.80	7,378.6	-75.9	-78.9	75.7	12.83	12.81	-3.44
7,414.0	17.90	165.50	7,409.4	-84.5	-76.7	84.3	11.57	11.56	-0.94
7,445.0	22.20	166.00	7,438.5	-94.8	-74.1	94.6	13.88	13.87	1.61
7,477.0	26.60	166.60	7,467.6	-107.6	-70.9	107.4	13.77	13.75	1.88
7,509.0	29.60	167.30	7,495.9	-122.3	-67.5	122.1	9.43	9.38	2.19
7,541.0	32.10	170.20	7,523.3	-138.4	-64.4	138.2	9.09	7.81	9.06
7,573.0	35.00	172.90	7,550.0	-155.9	-61.8	155.7	10.19	9.06	8.44
7,604.0	38.50	173.80	7,574.8	-174.3	-59.6	174.1	11.42	11.29	2.90
7,636.0	42.40	174.50	7,599.2	-195.0	-57.5	194.8	12.27	12.19	2.19
7,667.0	46.30	175.70	7,621.3	-216.6	-55.7	216.4	12.87	12.58	3.87
7,699.0	50.20	176.70	7,642.7	-240.4	-54.1	240.2	12.41	12.19	3.13
7,731.0	54.20	177.60	7,662.3	-265.6	-52.9	265.5	12.70	12.50	2.81
7,762.0	55.50	179.90	7,680.1	-291.0	-52.3	290.8	7.37	4.19	7.42
7,794.0	55.70	179.00	7,698.2	-317.4	-52.1	317.2	2.40	0.63	-2.81
7,826.0	58.80	178.50	7,715.5	-344.3	-51.5	344.1	9.78	9.69	-1.56
7,858.0	62.00	176.00	7,731.3	-372.0	-50.1	371.9	12.09	10.00	-7.81
7,890.0	66.10	175.00	7,745.3	-400.7	-47.9	400.6	13.12	12.81	-3.13
7,922.0	70.80	175.80	7,757.1	-430.4	-45.5	430.2	14.87	14.69	2.50



Stryker Directional Survey Report



Company:	Concho Oil and Gas	Local Co-ordinate Reference:	Well Way South State Com 3H
Project:	Eddy County, NM	TVD Reference:	RKB = 18' @ 3084.0usft (Silver Oak #7)
Site:	Way South State Com	MD Reference:	RKB = 18' @ 3084.0usft (Silver Oak #7)
Well:	Way South State Com 3H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

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)
7,953.0	75.70	176.40	7,766.0	-460.0	-43.5	459.9	15.91	15.81	1.94
7,976.8	79.13	177.45	7,771.2	-483.2	-42.2	483.1	15.00	14.37	4.39
Way South State Com 3H: LP									
7,985.0	80.30	177.80	7,772.6	-491.2	-41.9	491.1	15.00	14.38	4.32
8,048.0	87.50	179.70	7,779.3	-553.8	-40.5	553.7	11.81	11.43	3.02
8,142.0	89.20	179.70	7,782.0	-647.8	-40.0	647.7	1.81	1.81	0.00
8,237.0	90.50	179.20	7,782.3	-742.8	-39.1	742.7	1.47	1.37	-0.53
8,333.0	90.50	178.90	7,781.4	-838.8	-37.5	838.6	0.31	0.00	-0.31
8,428.0	90.40	178.90	7,780.7	-933.7	-35.7	933.6	0.11	-0.11	0.00
8,523.0	90.70	178.50	7,779.8	-1,028.7	-33.5	1,028.6	0.53	0.32	-0.42
8,618.0	90.70	177.80	7,778.6	-1,123.6	-30.5	1,123.6	0.74	0.00	-0.74
8,714.0	90.60	177.30	7,777.5	-1,219.6	-26.4	1,219.5	0.53	-0.10	-0.52
8,809.0	90.80	176.70	7,776.4	-1,314.4	-21.4	1,314.3	0.67	0.21	-0.63
8,904.0	90.70	178.50	7,775.1	-1,409.3	-17.4	1,409.3	1.90	-0.11	1.89
8,999.0	90.80	178.90	7,773.9	-1,504.3	-15.3	1,504.2	0.43	0.11	0.42
9,095.0	90.80	178.00	7,772.6	-1,600.2	-12.7	1,600.2	0.94	0.00	-0.94
9,190.0	92.30	180.30	7,770.0	-1,695.2	-11.3	1,695.1	2.89	1.58	2.42
9,286.0	93.60	181.70	7,765.0	-1,791.0	-12.9	1,791.0	1.99	1.35	1.46
9,379.0	91.40	179.70	7,761.0	-1,883.9	-14.1	1,883.9	3.20	-2.37	-2.15
9,475.0	90.30	181.70	7,759.6	-1,979.9	-15.2	1,979.9	2.38	-1.15	2.08
9,570.0	88.10	180.80	7,760.9	-2,074.9	-17.3	2,074.8	2.50	-2.32	-0.95
9,664.0	88.20	180.40	7,763.9	-2,168.8	-18.3	2,168.8	0.44	0.11	-0.43
9,760.0	88.10	180.30	7,767.0	-2,264.8	-18.9	2,264.7	0.15	-0.10	-0.10
9,855.0	87.30	179.60	7,770.8	-2,359.7	-18.8	2,359.6	1.12	-0.84	-0.74
9,950.0	89.00	180.40	7,773.9	-2,454.6	-18.8	2,454.6	1.98	1.79	0.84
10,045.0	90.10	180.80	7,774.6	-2,549.6	-19.8	2,549.6	1.23	1.16	0.42
10,140.0	89.90	180.80	7,774.6	-2,644.6	-21.1	2,644.5	0.21	-0.21	0.00
10,235.0	89.70	179.90	7,775.0	-2,739.6	-21.7	2,739.5	0.97	-0.21	-0.95
10,330.0	89.80	179.70	7,775.4	-2,834.6	-21.4	2,834.5	0.24	0.11	-0.21
10,426.0	91.10	180.80	7,774.6	-2,930.6	-21.8	2,930.5	1.77	1.35	1.15
10,521.0	90.60	180.40	7,773.2	-3,025.6	-22.8	3,025.5	0.67	-0.53	-0.42
10,616.0	90.60	180.30	7,772.2	-3,120.6	-23.4	3,120.5	0.11	0.00	-0.11
10,712.0	90.70	180.40	7,771.1	-3,216.6	-24.0	3,216.5	0.15	0.10	0.10
10,807.0	90.70	180.60	7,770.0	-3,311.6	-24.8	3,311.5	0.21	0.00	0.21
10,902.0	90.80	180.80	7,768.7	-3,406.5	-25.9	3,406.5	0.24	0.11	0.21
10,997.0	90.30	179.20	7,767.8	-3,501.5	-25.9	3,501.4	1.76	-0.53	-1.68
11,091.0	90.20	178.90	7,767.4	-3,595.5	-24.4	3,595.4	0.34	-0.11	-0.32
11,186.0	89.80	178.90	7,767.4	-3,690.5	-22.6	3,690.4	0.42	-0.42	0.00
11,282.0	89.00	177.80	7,768.4	-3,786.5	-19.8	3,786.4	1.42	-0.83	-1.15
11,378.0	90.70	178.70	7,768.7	-3,882.4	-16.9	3,882.3	2.00	1.77	0.94
11,473.0	90.50	178.70	7,767.7	-3,977.4	-14.7	3,977.3	0.21	-0.21	0.00
11,568.0	90.40	178.20	7,766.9	-4,072.3	-12.1	4,072.3	0.54	-0.11	-0.53
11,664.0	90.20	177.80	7,766.4	-4,168.3	-8.8	4,168.2	0.47	-0.21	-0.42
11,759.0	90.30	176.90	7,766.0	-4,263.2	-4.4	4,263.1	0.95	0.11	-0.95



Stryker Directional Survey Report



Company:	Concho Oil and Gas	Local Co-ordinate Reference:	Well Way South State Com 3H
Project:	Eddy County, NM	TVD Reference:	RKB = 18' @ 3084.0usft (Silver Oak #7)
Site:	Way South State Com	MD Reference:	RKB = 18' @ 3084.0usft (Silver Oak #7)
Well:	Way South State Com 3H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

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)	
11,854.0	90.80	178.70	7,765.1	-4,358.1	-0.8	4,358.1	1.97	0.53	1.89	
11,949.0	91.50	180.40	7,763.2	-4,453.1	0.0	4,453.1	1.93	0.74	1.79	
12,045.0	90.30	181.50	7,761.7	-4,549.0	-1.6	4,549.0	1.70	-1.25	1.15	
12,140.0	90.40	180.30	7,761.1	-4,644.0	-3.1	4,644.0	1.27	0.11	-1.26	
12,235.0	90.40	179.90	7,760.4	-4,739.0	-3.3	4,739.0	0.42	0.00	-0.42	
12,330.0	89.30	179.70	7,760.7	-4,834.0	-2.9	4,834.0	1.18	-1.16	-0.21	
12,426.0	89.10	178.50	7,762.0	-4,930.0	-1.4	4,930.0	1.27	-0.21	-1.25	
12,521.0	90.30	179.90	7,762.5	-5,025.0	-0.1	5,025.0	1.94	1.26	1.47	
12,617.0	90.50	178.90	7,761.9	-5,121.0	0.9	5,121.0	1.06	0.21	-1.04	
12,712.0	90.70	179.40	7,760.9	-5,216.0	2.3	5,215.9	0.57	0.21	0.53	
12,807.0	91.10	178.70	7,759.4	-5,310.9	3.9	5,310.9	0.85	0.42	-0.74	
12,901.0	89.90	179.00	7,758.6	-5,404.9	5.8	5,404.9	1.32	-1.28	0.32	
12,997.0	90.10	178.90	7,758.6	-5,500.9	7.5	5,500.9	0.23	0.21	-0.10	
13,092.0	90.20	178.70	7,758.3	-5,595.9	9.5	5,595.9	0.24	0.11	-0.21	
13,187.0	89.90	177.50	7,758.2	-5,690.8	12.7	5,690.8	1.30	-0.32	-1.26	
13,282.0	90.00	176.90	7,758.3	-5,785.7	17.3	5,785.7	0.64	0.11	-0.63	
13,378.0	90.20	176.70	7,758.1	-5,881.6	22.7	5,881.6	0.29	0.21	-0.21	
13,474.0	90.50	176.60	7,757.6	-5,977.4	28.3	5,977.5	0.33	0.31	-0.10	
13,570.0	89.80	176.00	7,757.3	-6,073.2	34.5	6,073.3	0.96	-0.73	-0.63	
13,627.0	89.90	174.80	7,757.5	-6,130.0	39.1	6,130.1	2.11	0.18	-2.11	
13,676.0	89.90	174.80	7,757.5	-6,178.8	43.5	6,178.9	0.00	0.00	0.00	

BHL 13676' MD - Way South State Com 3H: PBHL

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
13,676.0	7,757.5	-6,178.8	43.5	BHL 13676' MD