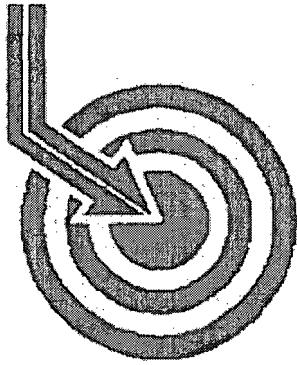


30-015-34438



Scientific Drilling

COG RESOURCES

Field: USP
Site: Eddy County, NM
Well: USP Fee #2
Wellpath: VH - Job #32K0706563
Survey: 07/15/06

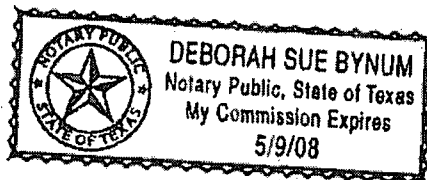
This survey is correct to the best of my knowledge
and is supported by actual field data.

.....*Pluhartor*..... Company Representative

Notorized this date 9th of August, 2006.

Deborah Sue Bynum

Notary Signature
County of Midland
State of Texas





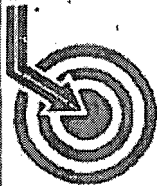
Scientific Drilling International Survey Report

Company: COG RESOURCES	Date: 08/09/2008	Time: 17:13:29	Page: 1
Field: USP	Co-ordinate(NE) Reference:	Site: Eddy County, NM, Grid North	
Site: Eddy County, NM	Vertical (TVD) Reference:	SITE 0.0	
Well: USP Fee #2	Section (VS) Reference:	Well (0.00N,0.00E,36.93Az)	
Wellpath: VH - Job #32K0706563	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Survey: 07/15/08	Start Date: 07/15/2006
Company: Scientific Drilling International	Engineer: Madrid/Reinders
Tool: Keeper/Keeper Gyro	Tied to: From Surface

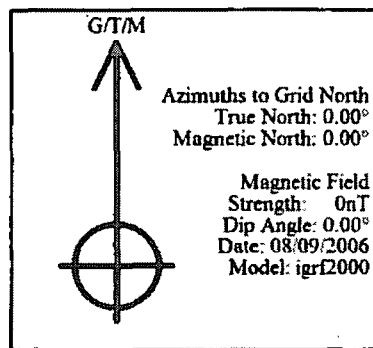
Survey

MD ft	Incl deg	Adm deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.87	163.49	100.00	-0.45	-0.73	0.22	0.87	0.76	163.49
200.00	1.05	172.18	199.98	-1.56	-2.36	0.58	0.23	2.43	166.76
300.00	1.01	187.35	299.97	-2.97	-4.15	0.57	0.27	4.18	172.20
400.00	0.94	180.71	399.95	-4.40	-5.84	0.45	0.13	5.86	175.64
500.00	0.82	189.47	499.94	-5.70	-7.37	0.32	0.13	7.37	177.53
600.00	1.12	200.61	599.93	-7.27	-8.99	-0.14	0.35	8.99	180.92
700.00	1.00	181.17	699.91	-8.92	-10.77	-0.51	0.38	10.79	182.69
800.00	0.95	193.33	799.89	-10.38	-12.45	-0.72	0.21	12.47	183.29
900.00	1.14	195.32	899.88	-12.07	-14.22	-1.17	0.19	14.27	184.70
1000.00	1.37	202.76	999.85	-14.15	-16.28	-1.89	0.28	16.39	186.64
1100.00	1.46	205.32	1099.82	-16.56	-18.53	-2.90	0.11	18.76	188.90
1200.00	1.31	204.10	1199.79	-18.92	-20.73	-3.91	0.15	21.10	190.70
1300.00	1.43	203.17	1299.77	-21.25	-22.92	-4.87	0.12	23.43	192.01
1400.00	1.21	210.66	1399.74	-23.51	-24.97	-5.90	0.28	25.66	193.30
1500.00	1.27	209.04	1499.72	-25.66	-26.85	-6.98	0.07	27.74	194.57
1600.00	1.02	199.12	1599.70	-27.60	-28.66	-7.81	0.32	29.71	195.24
1700.00	1.19	200.64	1699.63	-29.43	-30.41	-8.60	0.25	31.61	195.79
1800.00	1.68	205.18	1799.65	-31.94	-32.65	-9.72	0.50	34.07	196.58
1900.00	1.99	211.67	1899.59	-35.10	-35.46	-11.26	0.37	37.20	197.61
2000.00	1.97	219.09	1999.53	-38.55	-38.27	-13.25	0.26	40.50	199.10
2100.00	1.72	205.44	2099.48	-41.74	-40.96	-14.98	0.50	43.61	200.09
2200.00	1.50	188.57	2199.44	-44.36	-43.61	-15.82	0.52	46.39	199.94
2300.00	1.47	159.84	2299.41	-46.21	-46.10	-15.57	0.74	48.66	198.66
2400.00	1.33	160.78	2399.38	-47.55	-48.40	-14.75	0.14	50.60	196.94
2500.00	1.77	163.90	2499.35	-49.13	-50.98	-13.94	0.45	52.85	195.29
2600.00	1.81	162.13	2599.30	-50.97	-53.97	-13.02	0.07	55.52	193.57
2700.00	1.99	149.50	2699.24	-52.55	-56.97	-11.66	0.45	58.15	191.57
2800.00	1.87	172.36	2799.19	-54.37	-60.08	-10.56	0.77	61.00	189.97
2900.00	1.23	220.40	2899.15	-56.61	-62.52	-11.04	1.39	63.40	190.01
2922.00	1.23	220.38	2921.15	-57.08	-62.88	-11.35	0.00	63.89	190.23



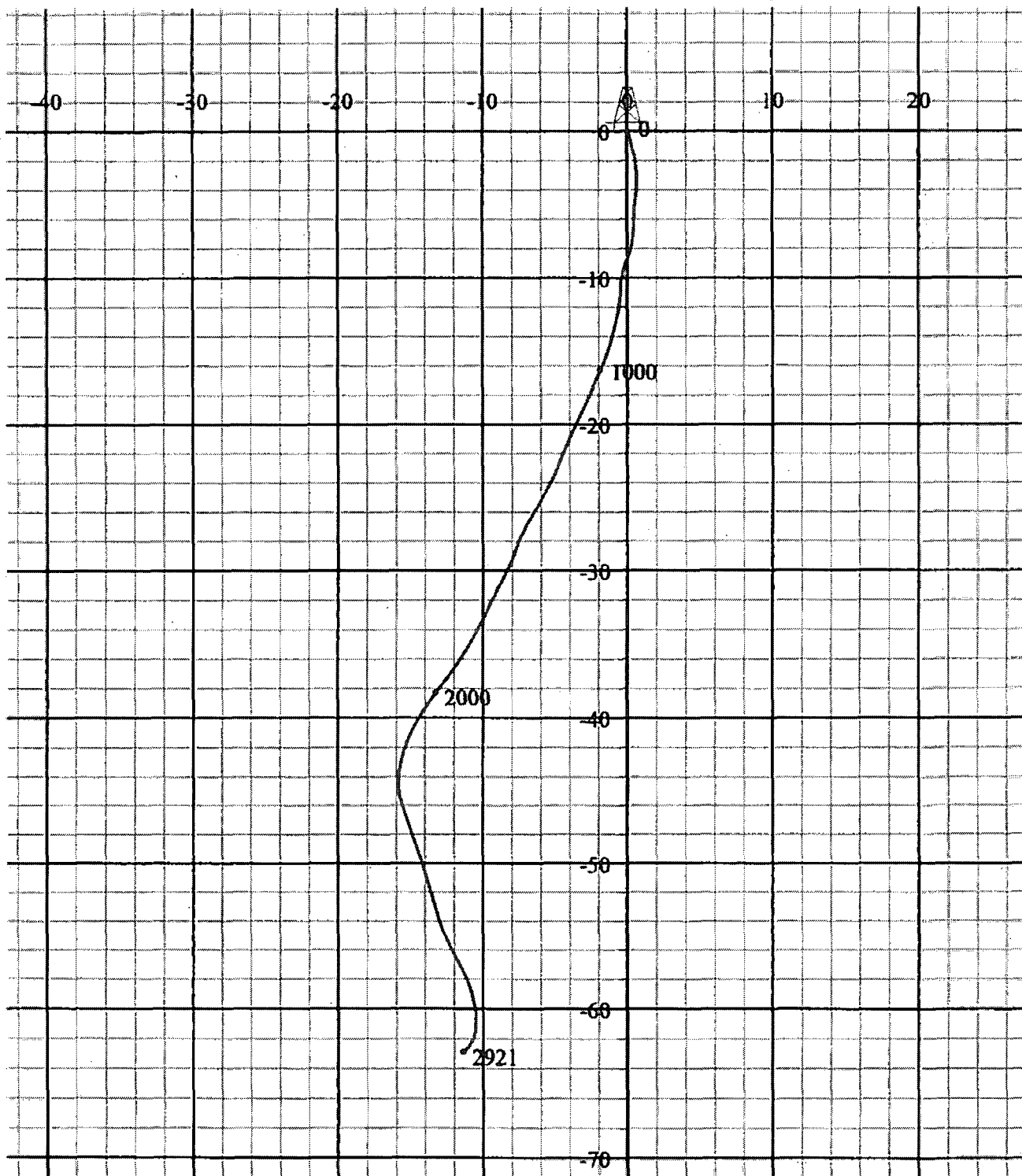
Scientific
Drilling

Field: USP
Site: Eddy County, NM
Well: USP Fee #2
Wellpath: VH - Job #32K0706563
Survey: 07/15/06



West(-)/East(+) [10ft/in]

South(-)/North(+) [10ft/in]



Actual Wellpath Report

Actual Wellpath
Page 1 of 6



REFERENCE WELLPATH IDENTIFICATION

Operator	Concho O&G	Slot	SHL
Area	Eddy County, NM	Well	USP FEE #2
Field	Undes. Laguna Salado; Atoka	Wellbore	Actual Wellbore Surveys
Facility	USP FEE		

REPORT SETUP INFORMATION

Projection System	NAD27 / TM New Mexico State Planes, Eastern Zone (3001), US feet	Software System	WellArchitect™ 1.2
North Reference	Grid	User	GomeOscR
Scale	0.999922	Report Generated	05/30/07 at 16:47:59
Wellbore last revised	07/17/06	Database/Source file	WA_Midland/Actual_V

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North [feet]	East [feet]	Easting [US feet]	Northing [US feet]	Latitude [°]	Longitude [°]
Slot Location	0.00	0.00	604465.48	477245.45	32 18 41.800N	103 59 42.700W
Facility Reference Pt			604465.48	477245.45	32 18 41.800N	103 59 42.700W
Field Reference Pt			604465.48	477245.45	32 18 41.800N	103 59 42.700W

WELLPATH DATUM

Calculation method	Minimum curvature	Rig on Directional Profile (RT) to Facility Vertical Datum	0.00 feet
Horizontal Reference Pt	Facility Center	Rig on Directional Profile (RT) to RKB	0.00 feet
Vertical Reference Pt	Rig on Directional Profile (RT)	Facility Vertical Datum to Mud Line (Facility)	0.00 feet
MD Reference Pt	Rig on Directional Profile (RT)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	RKB	Section Azimuth	36.93°

Actual Wellpath Report

Actual Wellpath
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INTEQ

REFERENCE WELL PATH IDENTIFICATION

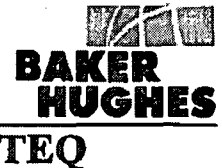
Operator	Concho O&G	Slot	SHL
Area	Eddy County, NM	Well	USP FEE #2
Field	Undes. Laguna Salado; Atoka	Wellbore	Actual Wellbore Surveys
Facility	USP FEE		

WELLPATH DATA (191 stations)

MD [feet]	Inclination [°]	Azimuth [°]	TVD [feet]	Vert Sect [feet]	North [feet]	East [feet]	DLS [°/100ft]	Path Comment
0.00	0.000	0.000	0.00	0.00	0.00	0.00	0.00	
100.00	0.870	163.490	100.00	-0.45	-0.73	0.22	0.87	
200.00	1.050	172.180	199.98	-1.56	-2.36	0.56	0.23	
300.00	1.010	187.350	299.97	-2.97	-4.15	0.57	0.27	
400.00	0.940	180.710	399.95	-4.40	-5.84	0.45	0.13	
500.00	0.820	189.470	499.94	-5.70	-7.37	0.32	0.18	
600.00	1.120	200.610	599.93	-7.27	-8.99	-0.14	0.35	
700.00	1.000	181.170	699.91	-8.92	-10.77	-0.51	0.38	
800.00	0.950	193.330	799.89	-10.38	-12.45	-0.72	0.21	
900.00	1.140	195.320	899.88	-12.07	-14.22	-1.17	0.19	
1000.00	1.370	202.760	999.85	-14.15	-16.28	-1.89	0.28	
1100.00	1.460	205.320	1099.82	-16.56	-18.53	-2.90	0.11	
1200.00	1.310	204.180	1199.79	-18.92	-20.73	-3.91	0.15	
1300.00	1.430	203.170	1299.77	-21.25	-22.92	-4.87	0.12	
1400.00	1.210	210.660	1399.74	-23.51	-24.97	-5.90	0.28	
1500.00	1.270	209.040	1499.72	-25.66	-26.85	-6.98	0.07	
1600.00	1.020	199.120	1599.70	-27.60	-28.66	-7.81	0.32	
1700.00	1.190	208.640	1699.68	-29.48	-30.41	-8.60	0.25	
1800.00	1.680	205.180	1799.65	-31.94	-32.65	-9.72	0.50	
1900.00	1.990	211.670	1899.59	-35.10	-35.46	-11.26	0.37	
2000.00	1.970	219.090	1999.53	-38.55	-38.27	-13.25	0.26	
2100.00	1.720	205.440	2099.48	-41.74	-40.96	-14.98	0.50	
2200.00	1.500	188.570	2199.44	-44.36	-43.61	-15.82	0.52	
2300.00	1.470	159.840	2299.41	-46.21	-46.10	-15.57	0.74	
2400.00	1.330	160.780	2399.38	-47.55	-48.40	-14.75	0.14	
2500.00	1.770	163.900	2499.35	-49.13	-50.98	-13.94	0.45	
2600.00	1.810	162.130	2599.30	-50.97	-53.97	-13.02	0.07	
2700.00	1.990	149.500	2699.24	-52.55	-56.97	-11.66	0.45	
2800.00	1.870	172.360	2799.19	-54.37	-60.08	-10.56	0.77	
2900.00	1.230	220.400	2899.15	-56.61	-62.52	-11.04	1.39	
2922.00	1.230	220.380	2921.15	-57.08	-62.88	-11.35	0.00	
2975.00	0.800	229.700	2974.14	-58.01	-63.55	-12.00	0.87	
3007.00	0.100	38.800	3006.14	-58.20	-63.67	-12.15	2.81	
3039.00	1.100	40.900	3038.14	-57.86	-63.42	-11.93	3.13	
3070.00	2.200	40.900	3069.12	-56.97	-62.74	-11.35	3.55	
3102.00	3.300	37.400	3101.09	-55.44	-61.55	-10.38	3.48	
3132.00	4.400	37.100	3131.02	-53.42	-59.94	-9.17	3.67	
3163.00	5.500	35.000	3161.90	-50.75	-57.78	-7.60	3.60	
3195.00	6.600	32.800	3193.72	-47.38	-54.98	-5.72	3.51	
3226.00	7.700	31.100	3224.48	-43.54	-51.70	-3.68	3.61	

Actual Wellpath Report

Actual Wellpath
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REFERENCE WELLPATH IDENTIFICATION

Operator	Concho O&G	Slot	SHL
Area	Eddy County, NM	Well	USP FEE #2
Field	Undes. Laguna Salado; Atoka	Wellbore	Actual Wellbore Surveys
Facility	USP FEE		

WELLPATH DATA (191 stations)

MD [feet]	Inclination [°]	Azimuth [°]	TVD [feet]	Vert Sect [feet]	North [feet]	East [feet]	DLS [°/100ft]	Path Comment
3257.00	8.800	31.400	3255.16	-39.11	-47.90	-1.37	3.55	
3289.00	9.800	33.500	3286.74	-33.96	-43.54	1.40	3.30	
3321.00	10.800	34.900	3318.22	-28.24	-38.81	4.62	3.22	
3353.00	12.000	35.600	3349.59	-21.92	-33.64	8.27	3.77	
3385.00	13.100	36.700	3380.83	-14.97	-28.03	12.38	3.52	
3417.00	14.200	37.400	3411.92	-7.42	-22.01	16.93	3.48	
3448.00	15.300	37.400	3441.90	0.47	-15.74	21.72	3.55	
3478.00	16.300	37.800	3470.77	8.64	-9.26	26.71	3.35	
3510.00	17.300	38.100	3501.40	17.89	-1.97	32.40	3.14	
3572.00	19.400	37.100	3560.24	37.40	13.50	44.30	3.42	
3666.00	20.100	35.300	3648.72	69.16	39.13	63.05	0.99	
3728.00	20.200	34.200	3706.92	90.50	56.68	75.22	0.63	
3793.00	20.600	33.500	3767.84	113.13	75.50	87.84	0.72	
3856.00	20.000	32.800	3826.93	134.94	93.79	99.79	1.03	
3919.00	20.500	32.500	3886.04	156.68	112.15	111.56	0.81	
3983.00	20.100	32.500	3946.06	178.82	130.88	123.49	0.63	
4044.00	19.500	33.500	4003.46	199.43	148.21	134.74	1.13	
4107.00	19.100	35.300	4062.92	220.23	165.39	146.50	1.14	
4168.00	19.200	34.200	4120.54	240.23	181.83	157.90	0.61	
4230.00	19.400	33.900	4179.06	260.69	198.81	169.38	0.36	
4292.00	19.900	34.200	4237.44	281.52	216.09	181.05	0.82	
4353.00	19.600	34.600	4294.86	302.11	233.09	192.70	0.54	
4414.00	19.200	36.000	4352.39	322.36	249.63	204.40	1.01	
4476.00	18.700	36.000	4411.03	342.49	265.92	216.24	0.81	
4542.00	19.000	36.000	4473.49	363.81	283.17	228.77	0.45	
4603.00	19.300	35.300	4531.12	383.82	299.43	240.43	0.62	
4665.00	19.000	36.300	4589.69	404.15	315.93	252.33	0.72	
4724.00	19.200	36.300	4645.44	423.46	331.49	263.76	0.34	
4816.00	19.200	35.600	4732.32	453.71	355.98	281.52	0.25	
4909.00	18.500	34.900	4820.33	483.74	380.51	298.86	0.79	
5004.00	19.100	34.200	4910.26	514.33	405.73	316.22	0.67	
5096.00	17.900	34.200	4997.51	543.49	429.88	332.63	1.30	
5187.00	18.300	35.600	5084.01	571.74	453.06	348.81	0.65	
5279.00	17.900	37.100	5171.45	600.32	476.08	365.75	0.67	
5371.00	18.100	36.000	5258.95	628.75	498.92	382.67	0.43	
5463.00	18.200	34.900	5346.37	657.39	522.26	399.29	0.39	
5555.00	18.100	37.100	5433.80	686.04	545.45	416.14	0.75	
5647.00	18.500	34.600	5521.15	714.92	568.86	433.04	0.96	
5739.00	18.500	37.000	5608.39	744.10	592.53	450.12	0.83	
5830.00	19.100	34.900	5694.54	773.42	616.27	467.32	0.99	

Actual Wellpath Report

Actual Wellpath
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INTEQ

REFERENCE WELL PATH IDENTIFICATION			
Operator	Concho O&G	Slot	SHL
Area	Eddy County, NM	Well	USP FEE #2
Field	Undes. Laguna Salado; Atoka	Wellbore	Actual Wellbore Surveys
Facility	USP FEE		

WELLPATH DATA (191 stations)

MD [feet]	Inclination [°]	Azimuth [°]	TVD [feet]	Vert Sect [feet]	North [feet]	East [feet]	DLS [%/100ft]	Path Comment
5924.00	19.300	36.300	5783.31	804.32	641.40	485.32	0.53	
6017.00	19.400	35.600	5871.06	835.13	666.35	503.41	0.27	
6110.00	19.200	37.400	5958.83	865.86	691.06	521.69	0.67	
6140.00	19.300	38.100	5987.15	875.75	698.88	527.74	0.84	
6171.00	19.200	37.400	6016.42	885.97	706.96	534.00	0.81	
6202.00	18.600	37.400	6045.75	896.01	714.94	540.10	1.94	
6234.00	17.800	37.400	6076.15	906.01	722.88	546.17	2.50	
6264.00	16.900	37.400	6104.78	914.95	729.98	551.61	3.00	
6295.00	16.300	36.000	6134.49	923.81	737.08	556.90	2.33	
6326.00	15.200	36.000	6164.33	932.22	743.89	561.85	3.55	
6358.00	14.100	35.600	6195.29	940.31	750.45	566.58	3.45	
6389.00	13.100	36.300	6225.42	947.60	756.35	570.86	3.27	
6419.00	12.400	36.300	6254.68	954.22	761.69	574.78	2.33	
6450.00	11.200	36.300	6285.02	960.56	766.80	578.53	3.87	
6482.00	10.100	36.000	6316.47	966.47	771.57	582.02	3.44	
6512.00	9.100	35.600	6346.05	971.47	775.63	584.95	3.34	
6543.00	8.300	36.700	6376.69	976.16	779.42	587.71	2.64	
6574.00	8.300	36.000	6407.37	980.64	783.02	590.36	0.33	
6605.00	7.200	36.000	6438.08	984.82	786.40	592.82	3.55	
6636.00	6.100	36.700	6468.87	988.41	789.30	594.9	3.56	
6698.00	5.500	37.100	6530.56	994.67	794.31	598.71	0.97	
6760.00	5.900	31.400	6592.25	1000.82	799.40	602.16	1.12	
6821.00	6.100	28.900	6652.92	1007.15	804.91	605.36	0.54	
6914.00	5.300	30.000	6745.46	1016.30	812.96	609.90	0.87	
6977.00	5.800	30.700	6808.16	1022.36	818.21	612.98	0.80	
7038.00	6.200	30.000	6868.83	1028.69	823.72	616.20	0.67	
7101.00	6.000	28.300	6931.47	1035.32	829.56	619.46	0.43	
7163.00	5.400	25.800	6993.16	1041.39	835.04	622.26	1.05	
7227.00	5.700	26.200	7056.86	1047.47	840.60	624.98	0.47	
7287.00	6.500	29.000	7116.52	1053.76	846.25	627.94	1.42	
7350.00	6.700	32.500	7179.10	1060.95	852.47	631.64	0.71	
7413.00	6.700	33.900	7241.67	1068.29	858.62	635.67	0.26	
7474.00	6.700	34.200	7302.26	1075.39	864.51	639.65	0.06	
7535.00	6.200	34.900	7362.87	1082.24	870.16	643.54	0.83	
7597.00	5.800	33.900	7424.53	1088.72	875.5	647.20	0.67	
7658.00	6.000	37.000	7485.21	1094.98	880.61	650.84	0.62	
7718.00	6.600	37.000	7544.85	1101.57	885.87	654.80	1.00	
7779.00	6.800	39.500	7605.43	1108.68	891.45	659.21	0.58	
7841.00	6.900	39.900	7666.99	1116.06	897.14	663.93	0.18	
7903.00	6.900	40.200	7728.54	1123.50	902.84	668.72	0.06	

Actual Wellpath Report

Actual Wellpath
Page 5 of 6



REFERENCE WELLPATH IDENTIFICATION			
Operator	Concho O&G	Slot	SHL
Area	Eddy County, NM	Well	USP FEE #2
Field	Undes. Laguna Salado; Atoka	Wellbore	Actual Wellbore Surveys
Facility	USP FEE		

WELLPATH DATA (191 stations)

MD [feet]	Inclination [°]	Azimuth [°]	TVD [feet]	Vert Sect [feet]	North [feet]	East [feet]	DLS [°/100ft]	Path Comment
7964.00	7.100	38.100	7789.08	1130.93	908.61	673.42	0.53	
8027.00	7.000	36.300	7851.61	1138.66	914.77	678.09	0.38	
8091.00	6.700	36.300	7915.15	1146.29	920.92	682.61	0.47	
8153.00	6.900	35.600	7976.71	1153.63	926.86	686.92	0.35	
8216.00	6.800	37.400	8039.26	1161.15	932.90	691.39	0.38	
8277.00	6.600	37.800	8099.85	1168.26	938.54	695.73	0.34	
8338.00	6.200	35.300	8160.47	1175.06	944.00	699.78	0.80	
8400.00	6.400	37.400	8222.09	1181.86	949.48	703.81	0.49	
8463.00	6.300	38.800	8284.71	1188.83	954.96	708.11	0.29	
8524.00	6.500	35.300	8345.33	1195.63	960.39	712.21	0.72	
8588.00	7.000	34.600	8408.88	1203.14	966.55	716.51	0.79	
8649.00	6.900	36.700	8469.43	1210.52	972.55	720.81	0.45	
8710.00	6.800	36.300	8530.00	1217.80	978.40	725.14	0.18	
8773.00	6.700	34.600	8592.56	1225.20	984.43	729.44	0.35	
8832.00	6.800	38.100	8651.15	1232.13	990.01	733.55	0.72	
8892.00	7.000	40.200	8710.72	1239.33	995.60	738.10	0.54	
8954.00	7.000	39.500	8772.26	1246.88	1001.40	742.94	0.14	
9014.00	7.100	38.800	8831.80	1254.24	1007.11	747.59	0.22	
9075.00	6.700	41.300	8892.36	1261.55	1012.72	752.30	0.82	
9136.00	6.400	40.200	8952.96	1268.49	1017.99	756.84	0.53	
9194.00	6.000	26.100	9010.63	1274.70	1023.18	760.26	2.71	
9258.00	5.900	14.900	9074.29	1281.03	1029.37	762.58	1.82	
9321.00	7.600	12.400	9136.85	1287.83	1036.57	764.31	2.74	
9384.00	8.300	25.800	9199.25	1296.08	1044.73	767.18	3.14	
9446.00	8.100	38.800	9260.62	1304.84	1052.16	771.87	3.00	
9509.00	8.100	40.600	9322.99	1313.70	1058.99	777.54	0.40	
9572.00	7.600	37.800	9385.40	1322.30	1065.65	782.98	1.00	
9636.00	6.300	37.800	9448.93	1330.04	1071.77	787.72	2.03	
9700.00	5.500	37.800	9512.59	1336.62	1076.97	791.76	1.25	
9763.00	5.600	48.600	9575.29	1342.65	1081.39	795.91	1.66	
9826.00	6.000	49.700	9637.97	1348.87	1085.55	800.73	0.66	
9890.00	6.100	44.400	9701.62	1355.50	1090.14	805.66	0.89	
9952.00	6.200	42.700	9763.26	1362.10	1094.96	810.24	0.34	
10015.00	6.700	39.500	9825.86	1369.15	1100.30	814.88	0.98	
10078.00	6.200	39.200	9888.46	1376.23	1105.77	819.37	0.80	
10165.00	5.600	43.000	9975.00	1385.14	1112.51	825.23	0.82	
10228.00	5.600	44.100	10037.70	1391.25	1116.97	829.47	0.17	
10291.00	5.500	43.000	10100.40	1397.30	1121.38	833.67	0.23	
10354.00	5.500	38.800	10163.11	1403.32	1125.94	837.62	0.64	
10417.00	5.800	38.500	10225.81	1409.52	1130.79	841.49	0.48	

Actual Wellpath Report

Actual Wellpath
Page 6 of 6



REFERENCE WELLPATH IDENTIFICATION			
Operator	Concho O&G	Slot	SHL
Area	Eddy County, NM	Well	USP FEE #2
Field	Undes. Laguna Salado; Atoka	Wellbore	Actual Wellbore Surveys
Facility	USP FEE		

WELLPATH DATA (191 stations)

MD [feet]	Inclination [°]	Azimuth [°]	TVD [feet]	Vert Sect [feet]	North [feet]	East [feet]	DLS [°/100ft]	Path Comment
10480.00	6.100	38.100	10288.47	1416.05	1135.91	845.54	0.48	
10575.00	6.700	37.400	10382.88	1426.64	1144.29	852.02	0.64	
10606.00	6.900	39.500	10413.66	1430.30	1147.16	854.30	1.03	
10699.00	5.300	46.000	10506.13	1440.13	1154.46	860.94	1.87	
10765.00	6.000	41.600	10571.81	1446.58	1159.15	865.43	1.25	
10829.00	6.100	40.200	10635.45	1453.30	1164.25	869.84	0.28	
10889.00	6.200	46.900	10695.11	1459.68	1168.90	874.27	1.21	
10952.00	6.900	46.200	10757.70	1466.76	1173.85	879.48	1.12	
11016.00	6.900	44.400	10821.23	1474.37	1179.25	884.95	0.34	
11079.00	7.300	41.300	10883.75	1482.11	1184.96	890.24	0.88	
11142.00	7.300	39.200	10946.24	1490.10	1191.07	895.41	0.42	
11205.00	7.000	36.300	11008.75	1497.94	1197.27	900.21	0.74	
11268.00	6.500	36.000	11071.31	1505.35	1203.25	904.58	0.80	
11331.00	6.400	33.900	11133.91	1512.42	1209.05	908.63	0.41	
11395.00	5.800	33.500	11197.55	1519.21	1214.70	912.41	0.94	
11458.00	5.200	27.900	11260.26	1525.20	1219.88	915.50	1.28	
11520.00	4.600	32.100	11322.03	1530.46	1224.47	918.14	1.13	
11583.00	5.400	44.100	11384.80	1535.92	1228.74	921.54	2.08	
11646.00	5.000	43.700	11447.54	1541.58	1232.85	925.50	0.64	
11709.00	5.000	42.700	11510.30	1547.04	1236.86	929.26	0.14	
11773.00	5.500	44.400	11574.03	1552.86	1241.10	933.30	0.82	
11836.00	6.600	34.200	11636.68	1559.47	1246.25	937.44	2.43	
11899.00	7.400	33.500	11699.21	1567.13	1252.63	941.72	1.28	
11962.00	7.000	35.600	11761.71	1575.02	1259.13	946.19	0.76	
12025.00	7.100	34.200	11824.24	1582.75	1265.47	950.62	0.32	
12088.00	6.900	33.200	11886.77	1590.41	1271.86	954.88	0.37	
12151.00	6.100	36.000	11949.36	1597.54	1277.73	958.92	1.37	
12246.00	6.200	38.500	12043.81	1607.71	1285.83	965.08	0.30	
12320.00	6.300	35.300	12117.37	1615.76	1292.27	969.91	0.49	
12370.00	6.300	35.300	12167.07	1621.25	1296.75	973.08	0.00	Projection to Bit from last Baker Survey@12,320'
12433.00	6.300	35.300	12229.69	1628.16	1302.39	977.08	0.00	Projection

WELLPATH COMPOSITION Ref Wellbore: Actual Wellbore Surveys Ref Wellpath: Actual Wellpath

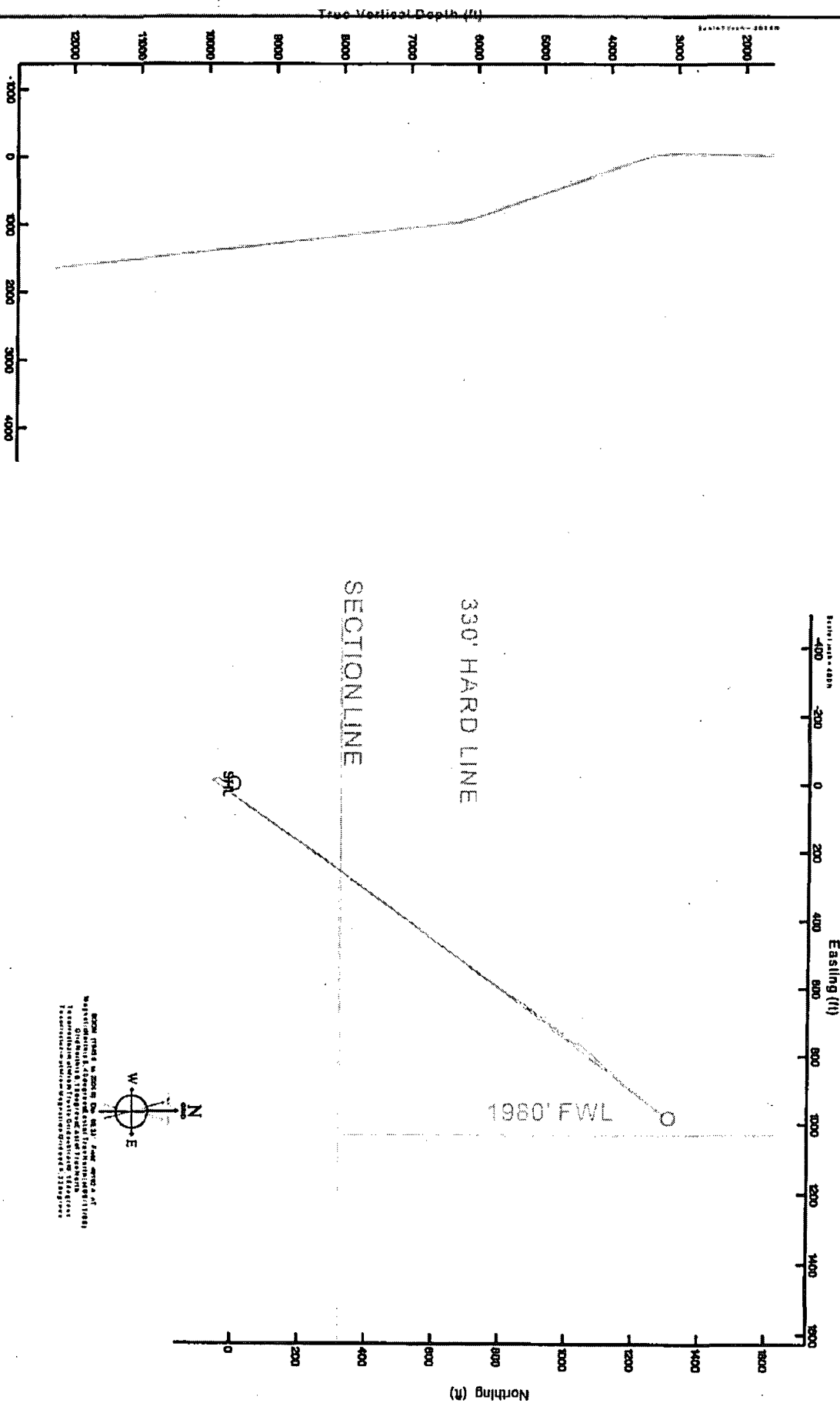
Start MD [feet]	End MD [feet]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	2922.00	Generic gyro - northseeking (Standard)	Gyro 0'-2922	Actual Wellbore Surveys
2922.00	12433.00	NaviTrak (Standard)	MWD 2922'-	Actual Wellbore Surveys

Location: Eddy County, NM
 Field: Under Laguna Salado, Aloks
 Facility: USP FEE

Soc: SHL
 Well: USP FEE #2
 Wellbore: Actual Wellbore Surveys

Concho O&G

**BAKER
 HUGHES**
 INTEQ



Azimuth 38.93° with reference 0.0 H, 0.00 E from wellhead

NOTE: THIS IS A 2D WELL LOG. THE 3D WELL LOG IS AVAILABLE IN THE FIELD. THE 3D WELL LOG IS THE ONLY ONE THAT CAN BE USED TO DETERMINE THE WELL PATH. THE 2D WELL LOG IS ONLY A REPRESENTATION OF THE WELL PATH. THE 3D WELL LOG IS THE ONLY ONE THAT CAN BE USED TO DETERMINE THE WELL PATH.

OPERATOR
WELL/LEASE
COUNTY

COG Operating, LLC
USP Fee
Eddy Co., N.M.

056-0025

STATE OF NEW MEXICO
DEVIATION REPORT

147	1.25
469	1.75
743	0.50
1,252	1.75
1,442	1.25
1,632	1.50
1,822	1.75
2,011	1.75
2,202	1.75
2,390	2.00
2,581	1.50

STATE OF TEXAS

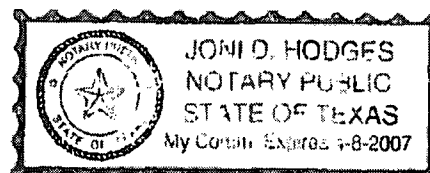
COUNTY OF MIDLAND

BY: Steve Moore

The foregoing instrument was acknowledged before me on
Moore on behalf of Patterson-UTI Drilling Company LP, LLLP.

September 13, 2006, by Steve

Joni D. Hodges
Notary Public for Midland County, Texas
My Commission Expires: 4/08/07





New State and Fee Wells with Expired APD

District 2

Generated on: 09/19/2016

Lease Type	API	Well Files	Well Name	Well Operator OGRID	Well Op
State	30-015-41685		TIGGER 9 STATE #011	192463	OXY US.
State	30-015-41686		TIGGER 9 STATE #013	192463	OXY US.
State	30-015-41687		TIGGER 9 STATE #014	192463	OXY US.
State	30-015-41688		TIGGER 9 STATE #015	192463	OXY US.
State	30-015-41689		TIGGER 9 STATE #017	192463	OXY US.
State	30-015-41690		TIGGER 9 STATE #020	192463	OXY US.