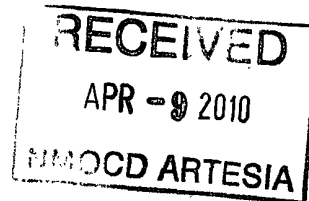


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PATHFINDER

An Operating Unit of Smith International, Inc.



DIRECTIONAL SURVEY REPORT

OXY PETROLEUM

FEDERAL 23 # 9

EDDY COUNTY, NEW MEXICO

PREPARED BY: FRANCISCO SINISTERRA

Pathfinder Energy Services, Inc.
6213 W. Interstate 20 • Midland, TX • 79706
(432) 681-6000

DIRECTIONAL SURVEY COMPANY REPORT:

1. NAME OF SURVEYING COMPANY: PATHFINDER ENERGY SERVICES
2. NAME OF PERSON(S) PERFORMING SURVEY:
A) STEWART ROBERTSON
3. POSITION OF SAID PERSON(S): (A-F) SURVEYORS (FIELD ENGINEERS)
4. DATE(S) ON WHICH SURVEY WAS PERFORMED: 01/12/10 TO 01/18/10
5. STATE IN WHICH SURVEY WAS PERFORMED: NEW MEXICO
6. LOCATION OF WELL: EDDY COUNTY, NM
7. TYPE OF SURVEY(S) PERFORMED: MWD
8. COMPLETE IDENTIFICATION OF WELL:

OXY PETROLEUM
FEDERAL 23 #9
EDDY COUNTY, NM
RIG: H & P 340

9. SURVEY CERTIFIED FROM: 871 TO 8565 FEET MEASURED DEPTH.

THIS IS TO VERIFY THAT ATTACHED DOCUMENTS SHOWING THE WELL TO BE DISPLACED AT 1399.66 FEET ON A BEARING OF 281.64 DEGREES FROM THE CENTER OF THE ROTARY TABLE AT A PROJECTED BIT DEPTH OF 8629 FEET, ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.



FRANCISCO SINISTERRA
M/LWD SERVICE COORDINATOR

PathFinder Energy Services, Inc.

BHL Report

Page 01/01
Tie-in Date: 01/12/2010
Date Completed: 01/18/2010

OXY PETROLEUM
FEDERAL 23 #9
EDDY COUNTY, NM
Rig:H&P 340
PathFinder Office Supervisor: FRANCISCO SINISTERRA
PathFinder Field Engineers:S. ROBERTSON

Survey Horiz. Reference:WELLHEAD
Ref Coordinates: LAT:32.22.40.4808 N LON:103.44.30.1723 W
GRID Reference:NAD27 new mexico east Transverse Mercator
Ref GRID Coord: X: 682643.9000 Y: 501704.1000
North Aligned To:GRID NORTH
Total Magnetic Correction: 7.52° EAST TO GRID
Vertical Section Plane: 281.77
Survey Vert. Reference: 16.50' Kelly Bushing To Ground
Altitude:3537.10' Ground To MSL

Measured Depth	8629.00	(feet)
Inclination	18.38	(deg)
Azimuth	283.41	(deg)
True Vertical Depth	8363.36	(feet)
Vertical Section	1399.65	(feet)
Survey X cord	681273.05	(feet)
Survey Y cord	501986.56	(feet)
Survey Lat	32.37870852 N	(deg)
Survey Lon	103.74614974 W	(deg)
Rectangular Corr. N/S	282.48 N	(feet)
Rectangular Corr. E/W	1370.86 W	(feet)
Closure Distance	1399.66	(feet)
Direction of Closure	281.64	(deg)
Dogleg Severity	0.00	(deg/100ft)

PathFinder Energy Services, Inc.

Survey Report

OXY PETROLEUM

FEDERAL 23 #9

EDDY COUNTY, NM

Rig:H&P 340

PathFinder Office Supervisor: FRANCISCO SINISTERRA

PathFinder Field Engineers: S. ROBERTSON

Page 01/05

Tie-in Date: 01/12/2010

Date Completed: 01/18/2010

Survey Horiz. Reference:WELLHEAD

Ref Coordinates: LAT:32.22.40.4808 N LON:103.44.30.1723 W

Reference:NAD27 new mexico east Transverse Mercator

Ref GRID Coord: X: 682643.9000 Y: 501704.1000

North Aligned To:GRID NORTH

Total Magnetic Correction: 7.52° EAST TO GRID

Vertical Section Plane: 281.77

Survey Vert. Reference: 16.50' Kelly Bushing To Ground

Altitude:3537.10' Ground To MSL

Survey Calculations by RX5 V6.02A using Minimum Curvature

Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft) (ft)		Closure Dist Dir (ft) (deg)		DLS (dg/100ft)
THE FOLLOWING SURVEYS ARE SCIENTIFIC DRILLING SURVEYS.										
0.00	0.00	0.00	0.00	0.00	0.00	0.01 S	0.00 W	0.01@	210.04	0.00
100.00	0.15	177.26	100.00	100.00	-0.03	0.14 S	0.00 E	0.14@	179.03	0.15
200.00	0.12	104.96	200.00	100.00	-0.17	0.30 S	0.11 E	0.32@	159.62	0.16
300.00	0.34	111.07	300.00	100.00	-0.57	0.43 S	0.49 E	0.65@	131.33	0.22
400.00	0.21	52.04	400.00	100.00	-0.98	0.42 S	0.91 E	1.00@	114.95	0.29
500.00	0.10	12.42	500.00	100.00	-1.10	0.23 S	1.07 E	1.10@	101.85	0.15
600.00	0.11	188.30	600.00	100.00	-1.10	0.23 S	1.08 E	1.10@	102.30	0.21
700.00	0.08	224.33	700.00	100.00	-1.07	0.38 S	1.01 E	1.08@	110.52	0.06
**	TIE-IN TO SCIENTIFIC DRILLING GYRO SURVEYS @ 760'MD.									
760.00	0.17	321.55	760.00	60.00	-0.98	0.34 S	0.93 E	0.99@	110.08	0.33
THE FOLLOWING SURVEYS ARE PATHFINDER MWD SURVEYS.										
871.00	0.53	87.85	871.00	111.00	-1.35	0.19 S	1.34 E	1.35@	98.14	0.58
961.00	0.88	108.33	960.99	90.00	-2.44	0.39 S	2.41 E	2.44@	99.26	0.47
1051.00	0.70	120.11	1050.98	90.00	-3.65	0.89 S	3.54 E	3.65@	104.05	0.27
1141.00	1.06	116.68	1140.97	90.00	-4.98	1.54 S	4.76 E	5.01@	107.87	0.40
1231.00	0.53	146.21	1230.96	90.00	-6.08	2.26 S	5.74 E	6.17@	111.46	0.73
1321.00	0.44	254.23	1320.96	90.00	-6.07	2.70 S	5.64 E	6.25@	115.56	0.87
1411.00	0.53	259.42	1410.96	90.00	-5.38	2.87 S	4.90 E	5.67@	120.34	0.11
1501.00	0.53	230.59	1500.96	90.00	-4.73	3.21 S	4.17 E	5.26@	127.59	0.29
1592.00	0.79	232.52	1591.95	91.00	-4.06	3.86 S	3.34 E	5.10@	139.08	0.29
1682.00	0.88	233.58	1681.94	90.00	-3.19	4.64 S	2.29 E	5.18@	153.71	0.10
1772.00	0.97	243.16	1771.93	90.00	-2.14	5.40 S	1.06 E	5.50@	168.91	0.20
1862.00	0.88	232.08	1861.92	90.00	-1.09	6.17 S	0.17 W	6.17@	181.55	0.22
1952.00	1.14	233.31	1951.90	90.00	-0.05	7.13 S	1.43 W	7.27@	191.35	0.29
2043.00	1.06	240.96	2042.89	91.00	1.18	8.08 S	2.89 W	8.58@	199.70	0.18
2133.00	0.70	325.86	2132.88	90.00	2.21	8.02 S	3.93 W	8.93@	206.08	1.35

PathFinder Energy Services, Inc.

Survey Report

OXY PETROLEUM
FEDERAL 23 #9
EDDY COUNTY, NM
RIG:H&P 340

Page 02/05

Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft) (ft)		Closure Dist Dir (ft) (deg)		DLS (dg/100ft)
2223.00	1.06	322.87	2222.87	90.00	3.23	6.91 S	4.74 W	8.38@	214.46	0.40
2313.00	0.35	349.50	2312.86	90.00	3.96	5.97 S	5.29 W	7.98@	221.54	0.85
2403.00	0.18	207.74	2402.86	90.00	4.11	5.83 S	5.41 W	7.95@	222.86	0.56
2525.00	0.09	235.51	2524.86	122.00	4.22	6.05 S	5.58 W	8.23@	222.66	0.09
2584.00	0.35	156.67	2583.86	59.00	4.15	6.24 S	5.54 W	8.35@	221.60	0.58
2674.00	0.18	98.22	2673.86	90.00	3.85	6.52 S	5.29 W	8.39@	219.10	0.33
2764.00	0.09	297.38	2763.86	90.00	3.78	6.50 S	5.22 W	8.34@	218.74	0.30
2854.00	0.26	45.40	2853.86	90.00	3.74	6.33 S	5.13 W	8.15@	219.06	0.33
2944.00	0.35	346.87	2943.86	90.00	3.74	5.92 S	5.05 W	7.78@	220.49	0.34
3034.00	0.26	324.10	3033.85	90.00	4.00	5.48 S	5.23 W	7.58@	223.67	0.17
3124.00	0.26	317.77	3123.85	90.00	4.32	5.17 S	5.49 W	7.54@	226.74	0.03
3215.00	0.35	282.09	3214.85	91.00	4.77	4.96 S	5.90 W	7.71@	229.98	0.23
3305.00	0.44	269.17	3304.85	90.00	5.38	4.90 S	6.52 W	8.15@	233.04	0.14
3395.00	0.62	292.64	3394.85	90.00	6.19	4.72 S	7.31 W	8.70@	237.15	0.31
3485.00	0.44	282.18	3484.84	90.00	7.02	4.46 S	8.10 W	9.24@	241.16	0.23
3576.00	0.35	208.88	3575.84	91.00	7.45	4.63 S	8.57 W	9.74@	241.63	0.52
3666.00	0.79	139.18	3665.84	90.00	7.04	5.34 S	8.30 W	9.87@	237.25	0.83
3756.00	1.14	131.62	3755.82	90.00	5.77	6.40 S	7.23 W	9.65@	228.45	0.41
3846.00	0.53	172.32	3845.81	90.00	4.85	7.41 S	6.50 W	9.86@	221.26	0.91
3936.00	0.35	192.27	3935.81	90.00	4.72	8.09 S	6.50 W	10.38@	218.79	0.26
4027.00	0.88	168.01	4026.81	91.00	4.44	9.05 S	6.42 W	11.09@	215.35	0.64
4117.00	1.06	152.98	4116.79	90.00	3.64	10.46 S	5.90 W	12.01@	209.40	0.34
4159.00	0.97	146.12	4158.79	42.00	3.14	11.11 S	5.52 W	12.40@	206.43	0.36
4291.00	1.06	288.68	4290.78	132.00	3.55	11.64 S	6.05 W	13.12@	207.48	1.46
4336.00	0.79	280.42	4335.77	45.00	4.28	11.45 S	6.75 W	13.30@	210.53	0.67
4381.00	0.88	279.19	4380.77	45.00	4.93	11.34 S	7.40 W	13.54@	213.12	0.20
4426.00	0.79	279.28	4425.76	45.00	5.59	11.24 S	8.05 W	13.82@	215.61	0.20
4471.00	2.11	279.63	4470.75	45.00	6.72	11.05 S	9.17 W	14.36@	219.69	2.93

PathFinder Energy Services, Inc.

Survey Report

OXY PETROLEUM
FEDERAL 23 #9
EDDY COUNTY, NM
RIG:H&P 340

Page 03/05

Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft) (ft)		Closure Dist Dir (ft) (deg)		DLS (dg/100ft)
4517.00	3.25	289.03	4516.70	46.00	8.86	10.48 S	11.24 W	15.37@	227.00	2.65
4562.00	3.61	293.17	4561.62	45.00	11.52	9.51 S	13.75 W	16.71@	235.33	0.97
4607.00	3.43	291.93	4606.53	45.00	14.23	8.45 S	16.30 W	18.36@	242.60	0.43
4652.00	4.48	282.27	4651.42	45.00	17.31	7.57 S	19.26 W	20.70@	248.54	2.76
4697.00	5.89	280.07	4696.24	45.00	21.38	6.79 S	23.25 W	24.23@	253.71	3.16
4742.00	6.16	280.77	4740.99	45.00	26.10	5.94 S	27.90 W	28.53@	257.98	0.62
4787.00	6.42	279.63	4785.72	45.00	31.03	5.07 S	32.75 W	33.14@	261.21	0.64
4832.00	7.03	277.26	4830.41	45.00	36.29	4.30 S	37.96 W	38.21@	263.54	1.49
4877.00	7.30	280.16	4875.06	45.00	41.89	3.45 S	43.51 W	43.65@	265.47	1.00
4922.00	8.27	281.56	4919.64	45.00	47.99	2.29 S	49.50 W	49.55@	267.35	2.20
4967.00	9.94	280.33	4964.08	45.00	55.11	0.95 S	56.49 W	56.50@	269.04	3.74
5012.00	10.20	279.81	5008.38	45.00	62.97	0.43 N	64.23 W	64.24@	270.38	0.61
5057.00	11.26	281.48	5052.59	45.00	71.35	1.98 N	72.47 W	72.49@	271.57	2.46
5102.00	11.70	280.33	5096.69	45.00	80.30	3.67 N	81.26 W	81.34@	272.59	1.10
5147.00	12.84	281.74	5140.67	45.00	89.86	5.51 N	90.65 W	90.81@	273.48	2.62
5192.00	14.07	283.14	5184.43	45.00	100.33	7.77 N	100.87 W	101.17@	274.40	2.83
5237.00	15.48	283.94	5227.94	45.00	111.80	10.46 N	112.02 W	112.51@	275.33	3.17
5283.00	14.86	283.67	5272.34	46.00	123.83	13.33 N	123.71 W	124.43@	276.15	1.36
5328.00	15.92	283.58	5315.72	45.00	135.77	16.15 N	135.32 W	136.28@	276.80	2.36
5373.00	17.41	282.00	5358.83	45.00	148.67	18.99 N	147.90 W	149.12@	277.32	3.46
5418.00	19.08	282.35	5401.57	45.00	162.76	21.97 N	161.68 W	163.16@	277.74	3.72
5463.00	20.58	282.71	5443.90	45.00	178.02	25.28 N	176.58 W	178.38@	278.15	3.34
5508.00	21.81	282.44	5485.85	45.00	194.29	28.82 N	192.46 W	194.60@	278.52	2.74
5553.00	23.13	282.97	5527.44	45.00	211.48	32.61 N	209.23 W	211.76@	278.86	2.97
5643.00	25.15	283.06	5609.56	90.00	248.28	40.90 N	245.09 W	248.48@	279.47	2.24
5733.00	26.47	282.53	5690.58	90.00	287.46	49.57 N	283.30 W	287.61@	279.92	1.49
5823.00	25.06	282.18	5771.63	90.00	326.58	57.94 N	321.52 W	326.70@	280.22	1.58
5913.00	24.80	282.44	5853.25	90.00	364.51	66.03 N	358.58 W	364.61@	280.43	0.31

PathFinder Energy Services, Inc.

Survey Report

OXY PETROLEUM
FEDERAL 23 #9
EDDY COUNTY, NM
RIG:H&P 340

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Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft) (ft)		Closure Dist Dir (ft) (deg)		DLS (dg/100ft)
6003.00	24.62	282.18	5935.01	90.00	402.13	74.05 N	395.34 W	402.21@	280.61	0.23
6093.00	23.39	282.18	6017.22	90.00	438.74	81.78 N	431.13 W	438.81@	280.74	1.37
6184.00	22.60	283.41	6100.99	91.00	474.28	89.64 N	465.79 W	474.34@	280.89	1.02
6274.00	21.98	281.92	6184.26	90.00	508.41	97.13 N	499.09 W	508.46@	281.01	0.93
6364.00	21.90	281.39	6267.75	90.00	542.04	103.93 N	532.03 W	542.08@	281.05	0.24
6454.00	21.54	281.21	6351.36	90.00	575.35	110.45 N	564.69 W	575.39@	281.07	0.41
6544.00	20.49	281.30	6435.37	90.00	607.62	116.75 N	596.34 W	607.66@	281.08	1.17
6634.00	21.63	282.79	6519.36	90.00	639.96	123.51 N	627.97 W	640.00@	281.13	1.40
6724.00	22.07	281.56	6602.89	90.00	673.45	130.57 N	660.71 W	673.49@	281.18	0.71
6814.00	21.10	282.62	6686.58	90.00	706.56	137.50 N	693.08 W	706.59@	281.22	1.16
6905.00	20.93	283.76	6771.53	91.00	739.18	144.94 N	724.85 W	739.20@	281.31	0.49
6995.00	22.86	281.12	6855.03	90.00	772.73	152.14 N	757.62 W	772.75@	281.35	2.41
7085.00	21.81	279.81	6938.28	90.00	806.92	158.36 N	791.25 W	806.95@	281.32	1.29
7175.00	22.69	280.60	7021.58	90.00	840.98	164.40 N	824.79 W	841.02@	281.27	1.03
7265.00	23.65	282.44	7104.32	90.00	876.39	171.48 N	859.48 W	876.42@	281.28	1.34
7355.00	23.48	283.06	7186.81	90.00	912.37	179.42 N	894.58 W	912.39@	281.34	0.33
7445.00	21.63	283.85	7269.93	90.00	946.87	187.45 N	928.15 W	946.89@	281.42	2.08
7536.00	22.16	282.62	7354.36	91.00	980.79	195.21 N	961.18 W	980.81@	281.48	0.77
7626.00	24.18	280.42	7437.10	90.00	1016.20	202.26 N	995.88 W	1016.21@	281.48	2.44
7716.00	24.01	281.04	7519.26	90.00	1052.93	209.10 N	1031.98 W	1052.95@	281.45	0.34
7806.00	23.13	281.83	7601.75	90.00	1088.92	216.23 N	1067.25 W	1088.94@	281.45	1.04
7901.00	22.51	284.29	7689.32	95.00	1125.75	224.54 N	1103.14 W	1125.76@	281.51	1.20
7991.00	22.86	282.88	7772.35	90.00	1160.44	232.69 N	1136.88 W	1160.44@	281.57	0.72
8082.00	24.27	281.56	7855.76	91.00	1196.81	240.38 N	1172.43 W	1196.82@	281.59	1.65
8172.00	24.01	281.21	7937.89	90.00	1233.62	247.64 N	1208.51 W	1233.63@	281.58	0.33
8262.00	23.30	282.18	8020.33	90.00	1269.73	254.96 N	1243.87 W	1269.74@	281.58	0.90
8352.00	22.77	280.86	8103.16	90.00	1304.94	262.00 N	1278.38 W	1304.95@	281.58	0.82
8442.00	20.75	282.27	8186.74	90.00	1338.30	268.67 N	1311.07 W	1338.31@	281.58	2.32

PathFinder Energy Services, Inc.

Survey Report

OXY PETROLEUM
FEDERAL 23 #9
EDDY COUNTY, NM
RIG:H&P 340

Page 05/05

Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft) (ft)		Closure Dist Dir (ft) (deg)		DLS (dg/100ft)
8565.00	18.38	283.41	8302.63	123.00	1379.48	277.80 N	1351.23 W	1379.49@	281.62	1.95
STRAIGHT-LINE PROJECTION TO BIT DEPTH @ 8629' MD.										
8629.00	18.38	283.41	8363.36	64.00	1399.65	282.48 N	1370.86 W	1399.66@	281.64	0.00

** The survey data at tie-in point was furnished by a recognized survey company and entered as submitted. Survey stations above the tie-in point represent recalculated data by PathFinder Energy Services, Inc. and may reflect minor changes due to rounding differences between survey programs. Only survey stations taken by qualified PathFinder personnel are subject to certification.

TIE-IN SURVEY INFORMATION SHEET

CLIENT INFORMATION

CLIENT:	OXY PETROLEUM		
LEASE / WELL No.:	FEDERAL 23	#9	
WELL LOCATION:	EDDY COUNTY		
COUNTY / STATE / COUNTRY:	EDDY	NM	USA
RIG:	H & P 340		
API WELL No:	30-015-37334		
JOB No:	101009637-WT-WT		
P.O. / AFE No.			
DIRECTIONAL COMPANY:	PATHFINDER		

WELL SITE INFORMATION

TOTAL MAGNETIC CORRECTION (TMC):			
On Wall Plat:	7.52	LWD Calculated:	7.521767
		Agreed Upon:	7.52
X =	682643.900000	Feet	Y = 501704.100000
			Feet
SITE LATITUDE:	32.3779113	SITE LONGITUDE:	103.7417145
GRID SYSTEM:	TRUE ☐ UTM ☒	LAMBERT ☐	ZONE: NEW MEXICO EAST
PROPOSED DRIFT DIRECTION:	281.77		
KELLY BUSHING ELEVATION:	16.5		
ALTITUDE:	3537.1	Feet	WATER DEPTH:
			Feet

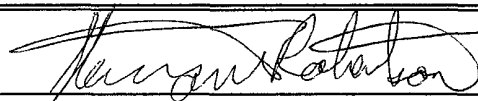
TIE-IN SURVEY

MEASURED DEPTH:	760		
DRIFT ANGLE:	0.17		
DRIFT DIRECTION:	321.55		
TRUE VERTICAL DEPTH:	760		
VERTICAL SECTION:	-0.98		
RECTANGULAR COORDINATE (N / S) :	-0.34		
RECTANGULAR COORDINATE (E / W) :	0.93		
CLOSURE DISTANCE / DIRECTION:	0.99	109.86	
SURVEY CALCULATION METHOD:	AA ☐	MC ☒	RC ☐ BT ☐
SOURCE OF TIE-IN DATA (COMPANY):	SCIENTIFIC		
COPY OF TIE-IN SURVEY REPORT	☐ YES ☒ NO		

WELL PLAN

KICKOFF DEPTH:	4450	TOTAL DEPTH:	8626.67
KICKOFF ANGLE:	0	MAX ANGLE:	22.63

PES Engineers:



**Signature of both field engineers required if applicable

Directional Driller:

DATE: 1/12/10

PathFinder Energy Services, Inc.

Magnetic & Grid Calculations

OXY PETROLEUM
FEDERAL 23 #9
EDDY COUNTY, NEW MEXICO
Rig:HP 340

Tue Jan 19 15:20:56 2010

Coordinates

Latitude: 32.377911 N (32 deg. 22 min. 40.4808 sec.)
Longitude: 103.741715 W (-103 deg. 44 min. 30.1723 sec.)
Elevation: 3553.60 feet.
Calculation Date: Dec/31/2009

Magnetic Calculations

Model: IGRF2005
Dip Angle: 60.3547 degrees
Total Magnetic Field: 0.48866 gauss
Magnetic Declination: 7.838588 degrees
Horizontal Intensity: 0.241705 gauss
To Convert a Magnetic Dir. to a TRUE North Dir. Add 7.838588 Degr

Transverse Mercator Grid Calculations NAD27

Grid System: Transverse Mercator: new mexico east
Ellipsoid: Clarke 1866
X: 682643.9000 feet
Y: 501704.1000 feet
True to Grid: (convergence) -0.316821 degrees
Magnetic to Grid: 7.521767 degrees
To Convert a Magnetic Dir. to a GRID dir. Add 7.521767 Degr.

PathFinder Energy Services, Inc.

Magnetic & Grid Calculations

OXY PETROLEUM
FEDERAL 23 #9
EDDY COUNTY, NEW MEXICO

Tue Jan 12 08:58:43 2010

Coordinates

Latitude: 32.377911 N (32 deg. 22 min. 40.4807 sec.)
Longitude: 103.741715 W (-103 deg. 44 min. 30.1722 sec.)
Elevation: 3553.60 feet.
Calculation Date: Dec/31/2009

Magnetic Calculations

Model: IGRF2005
Dip Angle: 60.3547 degrees
Total Magnetic Field: 0.48866 gauss
Magnetic Declination: 7.838588 degrees
Horizontal Intensity: 0.241705 gauss

To Convert a Magnetic Dir. to a TRUE North Dir. Add 7.838588 Degr

Transverse Mercator Grid Calculations NAD27

Grid System: Transverse Mercator: new mexico east
Ellipsoid: Clarke 1866
X: 682643.9048 feet
Y: 501704.0842 feet
True to Grid: (convergence) ~~-0.316821~~ degrees
Magnetic to Grid: 7.521767 degrees

To Convert a Magnetic Dir. to a GRID dir. Add 7.521767 Degr.