

Results of Directional Survey

API number:	30-025-41981		
OGRID:		Operator:	AMTEX ENERGY, INC.
		Property:	COOP 6 STATE # 2H

surface	ULSTR:	H	06	T 22S	R 33E
				1780 FNL	20 FEL

BH Loc	ULSTR:	E	06	T 22S	R 33E
15530	MD	10832.7	TVD	1796 FNL	190 FWL
					4971 FEL

5161

Top Perf/OH	ULSTR:	H	06	T 22S	R 33E
11420	MD	10874.7	TVD	1801 FNL	862 FEL

Bot Perf/OH	ULSTR:	E	06	T 22S	R 33E
15387	MD	10832.3	TVD	1796 FNL	333 FWL
					4828 FEL

	MD	N/S	E/W	VD
	11388.00	-20.70	-810.80	10870.40
TOP PERFS/OH	11420.00	-20.60	-842.40	10874.70
	11420.00	-20.60	-842.40	10874.70
	15339.00	-15.40	-4760.10	10831.60
BOT PERFS/OH	15387.00	-15.58	-4808.10	10832.25
	15390.90	-15.60	-4812.00	10832.30

NEXT TO LAST	15476.00	-15.70	-4897.10	10832.70
LAST READING	15530.00	-15.70	-4951.10	10832.70
TD	15530.00	-15.70	-4951.10	10832.70

Surface Location	1780	FN	20	FE
Projected BHL	1796	FN	4971	FE
Location of				
Top Perfs/OH	1801	FN	862	FE
Bottom Perfs/OH	1796	FN	4828	FE

SUMMARY of Subsurface Locations

Surface Location	H-06-22S-33E	1780	FN	20	FE	Vert. Depth
Top Perfs/OH	H-06-22S-33E	1801	FN	862	FE	10874.70
Bottom Perfs/OH	E-06-22S-33E	1796	FN	4828	FE	10832.25
Projected TD	E-06-22S-33E	1796	FN	4971	FE	10832.70

JAN 26 2015

HOBBSOCD

JAN 22 2015

RECEIVED

Amtex Energy, Inc

Lea County, New Mexico
Sec 6, T-22-S, R-33-E NMPM
COOP 6 State #2H

Wellbore #1

Design: Wellbore #1

DDC Survey Report

10 October, 2014



Survey Report



Company:	Amtex Energy, Inc	Local Co-ordinate Reference:	Well COOP 6 State #2H
Project:	Lea County, New Mexico	TVD Reference:	Well @ 3690.0usft (United #41)
Site:	Sec 6, T-22-S, R-33-E NMPM	MD Reference:	Well @ 3690.0usft (United #41)
Well:	COOP 6 State #2H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM Compass

Project	Lea County, New Mexico		
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	Sec 6, T-22-S, R-33-E NMPM			
Site Position:		Northing:	517,172.20 usft	Latitude: 32° 25' 10.928 N
From:	Map	Easting:	725,413.50 usft	Longitude: 103° 36' 10.231 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence: 0.39 °

Well	COOP 6 State #2H			
Well Position	+N/-S	0.0 usft	Northing: 518,412.20 usft	Latitude: 32° 25' 23.195 N
	+E/-W	0.0 usft	Easting: 725,455.40 usft	Longitude: 103° 36' 9.644 W
Position Uncertainty	0.0 usft	Wellhead Elevation:	0.0 usft	Ground Level: 3,674.5 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
	IGRF2010	7/10/2014	(°) 7.24	(°) 60.29	(nT) 48,424

Design	Wellbore #1			
Audit Notes:				
Version:	1.0	Phase:	ACTUAL	Tie On Depth: 0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(usft)	(usft)	(usft)	(°)
	0.0	0.0	0.0	269.70

Survey Program	Date 10/10/2014			
From	To	Survey (Wellbore)	Tool Name	Description
(usft)	(usft)			
100.0	10,152.5	GyroData Gyro Survey (Wellbore #1)	Good_gyro	Good Gyro
10,153.0	15,530.0	MWD Surveys (Wellbore #1)	MWD default	MWD - Standard

Survey									
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Vertical	Dogleg	Build	Turn
Depth	(°)	(°)	Depth	(usft)	(usft)	Section	Rate	Rate	Rate
(usft)			(usft)			(usft)	(°/100usft)	(°/100usft)	(°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.25	73.13	100.0	0.1	0.2	-0.2	0.25	0.25	0.00
200.0	0.25	83.25	200.0	0.2	0.6	-0.6	0.04	0.00	10.12
300.0	0.27	82.80	300.0	0.2	1.1	-1.1	0.02	0.02	-0.45
400.0	0.26	72.50	400.0	0.3	1.5	-1.5	0.05	-0.01	-10.30
500.0	0.28	71.09	500.0	0.5	2.0	-2.0	0.02	0.02	-1.41
600.0	0.25	67.45	600.0	0.6	2.4	-2.4	0.03	-0.03	-3.64
700.0	0.13	98.53	700.0	0.7	2.7	-2.7	0.15	-0.12	31.08
800.0	0.12	118.32	800.0	0.6	2.9	-2.9	0.04	-0.01	19.79
900.0	0.19	109.19	900.0	0.5	3.2	-3.2	0.07	0.07	-9.13

Survey Report



Company: Amtex Energy, Inc
Project: Lea County, New Mexico
Site: Sec 6, T-22-S, R-33-E NMPM
Well: COOP 6 State #2H
Wellbore: Wellbore #1
Design: Wellbore #1

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Database:

Well COOP 6 State #2H
Well @ 3690.0usft (United #41)
Well @ 3690.0usft (United #41)
Grid
Minimum Curvature
EDM Compass

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	0.20	97.03	1,000.0	0.4	3.5	-3.5	0.04	0.01	-12.16
1,100.0	0.21	90.56	1,100.0	0.4	3.9	-3.9	0.03	0.01	-6.47
1,200.0	0.23	101.57	1,200.0	0.4	4.2	-4.2	0.05	0.02	11.01
1,300.0	0.18	103.44	1,300.0	0.3	4.6	-4.6	0.05	-0.05	1.87
1,400.0	0.20	89.07	1,400.0	0.3	4.9	-4.9	0.05	0.02	-14.37
1,500.0	0.13	73.15	1,500.0	0.3	5.2	-5.2	0.08	-0.07	-15.92
1,600.0	0.18	158.44	1,600.0	0.2	5.4	-5.4	0.21	0.05	85.29
1,700.0	0.21	151.14	1,700.0	-0.1	5.5	-5.5	0.04	0.03	-7.30
1,800.0	0.28	72.24	1,800.0	-0.2	5.8	-5.8	0.32	0.07	-78.90
1,900.0	0.11	38.14	1,900.0	-0.1	6.1	-6.1	0.20	-0.17	-34.10
2,000.0	0.13	65.27	2,000.0	0.1	6.3	-6.3	0.06	0.02	27.13
2,100.0	0.14	54.18	2,100.0	0.2	6.5	-6.5	0.03	0.01	-11.09
2,200.0	0.08	50.28	2,200.0	0.3	6.7	-6.7	0.06	-0.06	-3.90
2,300.0	0.13	49.29	2,300.0	0.4	6.8	-6.8	0.05	0.05	-0.99
2,400.0	0.08	19.33	2,400.0	0.6	6.9	-6.9	0.07	-0.05	-29.96
2,500.0	0.11	12.13	2,500.0	0.7	6.9	-6.9	0.03	0.03	-7.20
2,600.0	0.19	316.32	2,600.0	0.9	6.8	-6.9	0.16	0.08	-55.81
2,700.0	0.07	16.12	2,700.0	1.1	6.8	-6.8	0.17	-0.12	59.80
2,800.0	0.33	42.97	2,800.0	1.4	7.0	-7.0	0.27	0.26	26.85
2,900.0	0.30	3.32	2,900.0	1.9	7.2	-7.2	0.22	-0.03	-39.65
3,000.0	0.26	30.66	3,000.0	2.3	7.3	-7.3	0.14	-0.04	27.34
3,100.0	0.23	38.82	3,100.0	2.7	7.5	-7.6	0.05	-0.03	8.16
3,200.0	0.29	23.31	3,200.0	3.0	7.8	-7.8	0.09	0.06	-15.51
3,300.0	0.19	16.03	3,300.0	3.4	7.9	-7.9	0.10	-0.10	-7.28
3,400.0	0.23	42.23	3,400.0	3.7	8.1	-8.1	0.10	0.04	26.20
3,500.0	0.20	46.86	3,500.0	4.0	8.4	-8.4	0.03	-0.03	4.63
3,600.0	0.22	38.24	3,600.0	4.3	8.6	-8.6	0.04	0.02	-8.62
3,700.0	0.18	30.23	3,700.0	4.6	8.8	-8.8	0.05	-0.04	-8.01
3,800.0	0.20	224.17	3,800.0	4.6	8.8	-8.8	0.38	0.02	-166.06
3,900.0	0.28	122.68	3,900.0	4.3	8.8	-8.9	0.38	0.08	-101.49
4,000.0	0.47	333.22	4,000.0	4.6	8.9	-8.9	0.73	0.19	-149.46
4,100.0	0.61	228.07	4,100.0	4.6	8.3	-8.3	0.86	0.14	-105.15
4,200.0	0.51	104.22	4,200.0	4.1	8.3	-8.3	0.99	-0.10	-123.85
4,300.0	0.62	1.94	4,300.0	4.5	8.8	-8.8	0.88	0.11	-102.28
4,400.0	0.69	243.87	4,400.0	4.8	8.3	-8.3	1.12	0.07	-118.07
4,500.0	0.72	146.22	4,500.0	4.0	8.1	-8.1	1.06	0.03	-97.65
4,600.0	0.62	52.62	4,600.0	3.8	8.8	-8.9	0.98	-0.10	-93.60
4,700.0	0.70	316.83	4,700.0	4.6	8.9	-8.9	0.98	0.08	-95.79
4,800.0	0.71	228.95	4,799.9	4.6	8.0	-8.0	0.98	0.01	-87.88
4,900.0	0.59	119.20	4,899.9	4.0	7.9	-8.0	1.07	-0.12	-109.75
5,000.0	0.42	52.17	4,999.9	4.0	8.7	-8.7	0.58	-0.17	-67.03
5,100.0	0.53	266.62	5,099.9	4.2	8.5	-8.5	0.91	0.11	-145.55
5,200.0	0.62	141.14	5,199.9	3.7	8.4	-8.4	1.02	0.09	-125.48

Survey Report



Company: Amtex Energy, Inc
Project: Lea County, New Mexico
Site: Sec 6, T-22-S, R-33-E NMPM
Well: COOP 6 State #2H
Wellbore: Wellbore #1
Design: Wellbore #1

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference:

Survey Calculation Method:

Database:

Well COOP 6 State #2H

Well @ 3690.0usft (United #41)

Well @ 3690.0usft (United #41)

Grid

Minimum Curvature

EDM Compass

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	0.34	94.19	5,299.9	3.3	9.0	-9.0	0.46	-0.28	-46.95
5,400.0	0.05	309.37	5,399.9	3.3	9.3	-9.3	0.38	-0.29	-144.82
5,500.0	0.02	274.02	5,499.9	3.3	9.2	-9.3	0.04	-0.03	-35.35
5,600.0	0.02	339.29	5,599.9	3.3	9.2	-9.2	0.02	0.00	65.27
5,700.0	0.01	350.19	5,699.9	3.3	9.2	-9.2	0.01	-0.01	10.90
5,800.0	0.05	12.50	5,799.9	3.4	9.2	-9.2	0.04	0.04	22.31
5,900.0	0.04	101.52	5,899.9	3.4	9.3	-9.3	0.06	-0.01	89.02
6,000.0	0.04	37.33	5,999.9	3.4	9.3	-9.3	0.04	0.00	-64.19
6,100.0	0.02	330.25	6,099.9	3.5	9.3	-9.3	0.04	-0.02	-67.08
6,200.0	0.09	333.31	6,199.9	3.6	9.3	-9.3	0.07	0.07	3.06
6,300.0	0.05	13.01	6,299.9	3.7	9.3	-9.3	0.06	-0.04	39.70
6,400.0	0.05	355.68	6,399.9	3.8	9.3	-9.3	0.02	0.00	-17.33
6,500.0	0.05	231.42	6,499.9	3.8	9.2	-9.2	0.09	0.00	-124.26
6,600.0	0.05	201.36	6,599.9	3.7	9.2	-9.2	0.03	0.00	-30.06
6,700.0	0.02	78.48	6,699.9	3.7	9.2	-9.2	0.06	-0.03	-122.88
6,800.0	0.08	270.11	6,799.9	3.7	9.1	-9.1	0.10	0.06	-168.37
6,900.0	0.05	341.60	6,899.9	3.7	9.0	-9.1	0.08	-0.03	71.49
7,000.0	0.01	30.14	6,999.9	3.8	9.0	-9.1	0.04	-0.04	48.54
7,100.0	0.05	112.33	7,099.9	3.8	9.1	-9.1	0.05	0.04	82.19
7,200.0	0.05	147.06	7,199.9	3.7	9.1	-9.2	0.03	0.00	34.73
7,300.0	0.05	243.87	7,299.9	3.7	9.1	-9.1	0.07	0.00	96.81
7,400.0	0.06	210.77	7,399.9	3.8	9.1	-9.1	0.03	0.01	-33.10
7,500.0	0.10	173.23	7,499.9	3.5	9.0	-9.1	0.06	0.04	-37.54
7,600.0	0.10	183.23	7,599.9	3.3	9.0	-9.1	0.02	0.00	10.00
7,700.0	0.04	123.84	7,699.9	3.2	9.1	-9.1	0.09	-0.06	-59.39
7,800.0	0.02	151.46	7,799.9	3.2	9.1	-9.1	0.02	-0.02	27.62
7,900.0	0.07	182.06	7,899.9	3.1	9.1	-9.1	0.05	0.05	30.60
8,000.0	0.04	39.17	7,999.9	3.0	9.1	-9.2	0.10	-0.03	-142.89
8,100.0	0.06	198.09	8,099.9	3.0	9.1	-9.2	0.10	0.02	158.92
8,200.0	0.10	90.40	8,199.9	3.0	9.2	-9.2	0.13	0.04	-107.69
8,300.0	0.04	174.78	8,299.9	2.9	9.3	-9.3	0.10	-0.06	84.38
8,400.0	0.05	146.47	8,399.9	2.9	9.3	-9.3	0.02	0.01	-28.31
8,500.0	0.09	155.52	8,499.9	2.8	9.4	-9.4	0.04	0.04	9.05
8,600.0	0.06	195.93	8,599.9	2.6	9.4	-9.4	0.06	-0.03	40.41
8,700.0	0.07	184.29	8,699.9	2.5	9.4	-9.4	0.02	0.01	-11.64
8,800.0	0.11	219.12	8,799.9	2.4	9.3	-9.3	0.07	0.04	34.83
8,900.0	0.11	147.46	8,899.9	2.2	9.3	-9.3	0.13	0.00	-71.66
9,000.0	0.08	115.00	8,999.9	2.1	9.4	-9.4	0.06	-0.03	-32.46
9,100.0	0.08	232.70	9,099.9	2.0	9.4	-9.4	0.14	0.00	117.70
9,200.0	0.23	209.67	9,199.9	1.8	9.3	-9.3	0.16	0.15	-23.03
9,300.0	0.62	174.80	9,299.9	1.1	9.2	-9.2	0.45	0.39	-34.87
9,400.0	0.71	164.89	9,399.9	0.0	9.4	-9.4	0.15	0.09	-9.91
9,500.0	0.85	164.27	9,499.9	-1.3	9.8	-9.8	0.14	0.14	-0.62

Survey Report



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Site:	Sec 6, T-22-S, R-33-E NMPM	MD Reference:	Well @ 3690.0usft (United #41)
Well:	COOP 6 State #2H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM Compass

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)
9,600.0	0.83	164.66	9,599.9	-2.7	10.2	-10.2	0.02	-0.02	0.39
9,700.0	0.84	179.37	9,699.9	-4.2	10.4	-10.4	0.21	0.01	14.71
9,800.0	0.87	180.44	9,799.9	-5.7	10.4	-10.4	0.03	0.03	1.07
9,900.0	0.91	174.18	9,899.9	-7.2	10.5	-10.4	0.11	0.04	-6.26
10,000.0	0.85	154.26	9,999.9	-8.7	10.9	-10.8	0.31	-0.06	-19.92
10,100.0	1.14	133.76	10,099.8	-10.0	11.9	-11.9	0.45	0.29	-20.50
TIE IN @ 10153' MD / 10152' TVD									
10,152.5	1.08	119.80	10,152.3	-10.8	12.7	-12.7	0.53	-0.11	-26.59
10,190.0	1.30	103.90	10,189.8	-10.9	13.4	-13.4	1.05	0.59	-42.40
10,222.0	0.90	103.50	10,221.8	-11.1	14.0	-14.0	1.25	-1.25	-1.25
10,254.0	1.80	252.80	10,253.8	-11.3	13.8	-13.7	8.17	2.81	466.56
10,285.0	5.30	259.10	10,284.7	-11.7	11.9	-11.9	11.34	11.29	20.32
10,316.0	8.70	263.60	10,315.5	-12.2	8.2	-8.1	11.10	10.97	14.52
10,348.0	12.10	269.10	10,347.0	-12.5	2.4	-2.4	11.06	10.63	17.19
10,379.0	15.60	271.90	10,377.1	-12.5	-5.0	5.0	11.49	11.29	9.03
10,410.0	18.40	270.30	10,406.7	-12.3	-14.0	14.1	9.16	9.03	-5.16
10,442.0	21.10	268.20	10,436.8	-12.4	-24.9	24.9	8.72	8.44	-6.56
10,474.0	23.90	264.00	10,466.4	-13.3	-37.1	37.1	10.08	8.75	-13.13
10,505.0	27.10	261.20	10,494.4	-15.0	-50.3	50.4	11.03	10.32	-9.03
10,536.0	30.30	260.30	10,521.6	-17.4	-65.0	65.1	10.42	10.32	-2.90
10,568.0	33.50	260.70	10,548.7	-20.2	-81.7	81.8	10.02	10.00	1.25
10,600.0	37.50	261.00	10,574.8	-23.2	-100.0	100.1	12.51	12.50	0.94
10,632.0	41.20	262.60	10,599.5	-26.1	-120.1	120.2	11.99	11.56	5.00
10,662.0	45.10	264.50	10,621.4	-28.3	-140.5	140.6	13.70	13.00	6.33
10,694.0	48.60	266.30	10,643.3	-30.2	-163.7	163.9	11.68	10.94	5.63
10,726.0	52.10	267.90	10,663.7	-31.4	-188.3	188.5	11.59	10.94	5.00
10,757.0	55.00	268.60	10,682.1	-32.2	-213.2	213.4	9.53	9.35	2.26
10,789.0	57.80	268.00	10,699.8	-33.0	-239.9	240.1	8.89	8.75	-1.88
10,820.0	60.80	269.50	10,715.6	-33.6	-266.5	266.7	10.53	9.68	4.84
10,852.0	62.80	271.70	10,730.8	-33.3	-294.7	294.9	8.70	6.25	6.88
CROSSED 330' HARD LINE @ 10869' MD / 10738' TVD									
10,868.9	64.11	272.42	10,738.3	-32.7	-309.8	310.0	8.61	7.73	4.23
10,883.0	65.20	273.00	10,744.4	-32.1	-322.6	322.7	8.61	7.75	4.15
10,915.0	68.80	272.60	10,756.9	-30.7	-352.0	352.1	11.31	11.25	-1.25
10,946.0	72.00	271.40	10,767.3	-29.7	-381.2	381.3	10.95	10.32	-3.87
10,977.0	74.80	270.90	10,776.1	-29.1	-410.9	411.0	9.16	9.03	-1.61
11,009.0	75.80	271.20	10,784.2	-28.5	-441.8	442.0	3.25	3.13	0.94
11,040.0	76.10	270.50	10,791.8	-28.1	-471.9	472.0	2.39	0.97	-2.26
11,072.0	76.40	271.00	10,799.4	-27.7	-503.0	503.1	1.78	0.94	1.56
11,103.0	77.00	270.90	10,806.5	-27.2	-533.1	533.3	1.96	1.94	-0.32
11,135.0	76.40	271.00	10,813.9	-26.6	-564.3	564.4	1.90	-1.88	0.31
11,166.0	76.40	271.60	10,821.1	-26.0	-594.4	594.5	1.88	0.00	1.94
11,198.0	76.60	271.40	10,828.6	-25.1	-625.5	625.6	0.87	0.63	-0.63
11,230.0	76.80	271.70	10,836.0	-24.3	-656.6	656.7	1.11	0.63	0.94

Survey Report



Company:	Amtext Energy, Inc	Local Co-ordinate Reference:	Well COOP 6 State #2H
Project:	Lea County, New Mexico	TVD Reference:	Well @ 3690.0usft (United #41)
Site:	Sec 6, T-22-S, R-33-E NMPM	MD Reference:	Well @ 3690.0usft (United #41)
Well:	COOP 6 State #2H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM Compass

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)
11,262.0	76.30	272.10	10,843.4	-23.3	-687.7	687.8	1.98	-1.56	1.25
11,293.0	76.10	271.70	10,850.8	-22.3	-717.8	717.9	1.41	-0.65	-1.29
11,325.0	77.20	271.00	10,858.2	-21.5	-748.9	749.0	4.04	3.44	-2.19
11,356.0	78.60	271.00	10,864.7	-21.0	-779.2	779.3	4.52	4.52	0.00
11,388.0	81.00	270.30	10,870.4	-20.7	-810.7	810.8	7.80	7.50	-2.19
11,420.0	83.50	269.80	10,874.7	-20.6	-842.4	842.5	7.96	7.81	-1.56
11,453.0	85.70	267.00	10,877.8	-21.5	-875.3	875.4	10.76	6.67	-8.48
11,484.0	88.60	266.60	10,879.3	-23.3	-906.2	906.3	9.44	9.35	-1.29
11,515.0	91.20	267.50	10,879.4	-24.9	-937.1	937.3	8.88	8.39	2.90
11,547.0	91.50	268.70	10,878.6	-25.9	-969.1	969.2	3.86	0.94	3.75
11,642.0	89.60	270.30	10,877.7	-26.8	-1,064.1	1,064.2	2.61	-2.00	1.68
11,737.0	89.80	269.60	10,878.2	-26.8	-1,159.1	1,159.2	0.77	0.21	-0.74
11,832.0	91.00	269.50	10,877.6	-27.6	-1,254.1	1,254.2	1.27	1.26	-0.11
11,927.0	91.70	269.30	10,875.3	-28.6	-1,349.1	1,349.2	0.77	0.74	-0.21
12,022.0	90.10	269.80	10,873.8	-29.3	-1,444.0	1,444.2	1.76	-1.68	0.53
12,116.0	90.70	269.60	10,873.2	-29.8	-1,538.0	1,538.2	0.67	0.64	-0.21
12,210.0	91.10	271.20	10,871.7	-29.2	-1,632.0	1,632.1	1.75	0.43	1.70
12,305.0	90.00	270.90	10,870.8	-27.4	-1,727.0	1,727.1	1.20	-1.16	-0.32
12,399.0	90.80	269.60	10,870.1	-27.0	-1,821.0	1,821.1	1.62	0.85	-1.38
12,494.0	91.10	268.60	10,868.5	-28.5	-1,916.0	1,916.1	1.10	0.32	-1.05
12,588.0	91.40	268.40	10,866.5	-31.0	-2,009.9	2,010.0	0.38	0.32	-0.21
12,683.0	91.90	268.20	10,863.8	-33.8	-2,104.8	2,105.0	0.57	0.53	-0.21
12,777.0	91.40	269.30	10,861.1	-35.8	-2,198.8	2,198.9	1.28	-0.53	1.17
12,871.0	90.30	270.00	10,859.7	-36.4	-2,292.7	2,292.9	1.39	-1.17	0.74
12,966.0	91.20	269.50	10,858.4	-36.8	-2,387.7	2,387.9	1.08	0.95	-0.53
13,060.0	90.80	270.70	10,856.8	-36.7	-2,481.7	2,481.9	1.35	-0.43	1.28
13,155.0	90.60	271.60	10,855.6	-34.8	-2,576.7	2,576.8	0.97	-0.21	0.95
13,249.0	91.20	271.60	10,854.1	-32.1	-2,670.6	2,670.8	0.64	0.64	0.00
13,343.0	91.80	271.00	10,851.7	-30.0	-2,764.6	2,764.7	0.90	0.64	-0.64
13,438.0	91.30	270.90	10,849.1	-28.4	-2,859.5	2,859.6	0.54	-0.53	-0.11
13,533.0	90.60	270.00	10,847.5	-27.7	-2,954.5	2,954.6	1.20	-0.74	-0.95
13,628.0	90.50	269.80	10,846.6	-27.8	-3,047.5	3,047.6	0.24	-0.11	-0.22
13,721.0	91.00	269.50	10,845.4	-28.4	-3,142.5	3,142.6	0.61	0.53	-0.32
13,816.0	91.30	269.10	10,843.5	-29.6	-3,237.5	3,237.6	0.53	0.32	-0.42
13,912.0	91.40	268.70	10,841.2	-31.4	-3,333.4	3,333.6	0.43	0.10	-0.42
14,007.0	91.50	269.10	10,838.8	-33.2	-3,428.4	3,428.5	0.43	0.11	0.42
14,102.0	91.20	270.30	10,836.6	-33.7	-3,523.4	3,523.5	1.30	-0.32	1.26
14,197.0	90.00	271.40	10,835.6	-32.3	-3,618.3	3,618.5	1.71	-1.26	1.16
14,292.0	90.60	271.60	10,835.1	-29.8	-3,713.3	3,713.4	0.67	0.63	0.21
14,387.0	91.30	271.20	10,833.5	-27.5	-3,808.3	3,808.4	0.85	0.74	-0.42
14,482.0	91.10	271.40	10,831.5	-25.4	-3,903.2	3,903.3	0.30	-0.21	0.21
14,578.0	89.80	271.40	10,830.8	-23.0	-3,999.2	3,999.3	1.35	-1.35	0.00
14,674.0	90.50	270.90	10,830.5	-21.1	-4,095.2	4,095.2	0.90	0.73	-0.52

Survey Report



Company:	Amtex Energy, Inc	Local Co-ordinate Reference:	Well COOP 6 State #2H
Project:	Lea County, New Mexico	TVD Reference:	Well @ 3690.0usft (United #41)
Site:	Sec 6, T-22-S, R-33-E NMPM	MD Reference:	Well @ 3690.0usft (United #41)
Well:	COOP 6 State #2H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM Compass

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)	
14,769.0	89.70	271.00	10,830.4	-19.5	-4,190.1	4,190.2	0.85	-0.84	0.11	
14,864.0	90.00	270.70	10,830.6	-18.1	-4,285.1	4,285.2	0.45	0.32	-0.32	
14,959.0	90.60	270.90	10,830.1	-16.8	-4,380.1	4,380.2	0.67	0.63	0.21	
15,054.0	89.70	270.30	10,829.9	-15.8	-4,475.1	4,475.1	1.14	-0.95	-0.63	
15,149.0	90.30	270.30	10,829.9	-15.3	-4,570.1	4,570.1	0.63	0.63	0.00	
15,245.0	89.30	270.00	10,830.2	-15.0	-4,666.1	4,666.1	1.09	-1.04	-0.31	
15,339.0	89.00	269.60	10,831.6	-15.4	-4,760.1	4,760.1	0.53	-0.32	-0.43	
CROSSED 330' HARD LINE @ 15391' MD / 10832' TVD										
15,390.9	89.44	269.82	10,832.3	-15.6	-4,812.0	4,812.0	0.94	0.84	0.42	
15,434.0	89.80	270.00	10,832.6	-15.7	-4,855.1	4,855.1	0.94	0.84	0.42	
15,476.0	90.00	270.00	10,832.7	-15.7	-4,897.1	4,897.1	0.48	0.48	0.00	
TD @ 15530' MD / 10833' TVD										
15,530.0	90.00	270.00	10,832.7	-15.7	-4,951.1	4,951.1	0.00	0.00	0.00	

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N-S (usft)	+E-W (usft)	Comment	
10,152.5	10,152.3	-10.6	12.7	TIE IN @ 10153' MD / 10152' TVD	
10,868.9	10,738.3	-32.7	-309.8	CROSSED 330' HARD LINE @ 10869' MD / 10738' TVD	
15,390.9	10,832.3	-15.6	-4,812.0	CROSSED 330' HARD LINE @ 15391' MD / 10832' TVD	
15,530.0	10,832.7	-15.7	-4,951.1	TD @ 15530' MD / 10833' TVD	

Checked By: _____ Approved By: _____ Date: _____