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YATES PETROLEUM

West Jal Delaware
Lea County, NM
Herkimer "BQF" Federal #1H
VH - Job #32K1010785

SUR: K-21-25s-36e, 1980/S & 1980/W
BHL: C-21-25s-36e, 4912/S & 1980/W
API #30-025-20381

Survey: Actual

SDI Standard Survey Report

21 October, 2010

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

Notorized this date 11th of November, 2010.

Notary Signature
County of Midland
State of Texas

CASSIE REED
My Commission Expires
October 4, 2011

Scientific Drilling International, Inc.

SDI Standard Survey Report

Company:	YATES PETROLEUM	**Local Co-ordinate Reference:**	Well Herkimer "BQF" Federal #1H
Project:	West Jal Delaware	**TVD Reference:**	WELL @ 0.0usft (Original Well Elev)
Site:	Lea County, NM	**MD Reference:**	WELL @ 0.0usft (Original Well Elev)
Well:	Herkimer "BQF" Federal #1H	**North Reference:**	Grid
Wellbore:	VH - Job #32K1010785	**Survey Calculation Method:**	Minimum Curvature
Design:	VH - Job #32K1010785	**Database:**	EDM-Regulatory

Project West Jal Delaware

Map System:	US State Plane 1983	**System Datum:**	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site Lea County, NM

Site Position:		**Northing:**	406,799.00 usft	**Latitude:**	32° 6' 53.900 N
From:	Lat/Long	**Easting:**	828,522.28 usft	**Longitude:**	103° 24' 20.713 W
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16"	**Grid Convergence:**	0.49 °

Well Herkimer "BQF" Federal #1H, Diectioanl (Pathfinder)

Well Position	**+N/-S**	0.0 usft	**Northing:**	406,846.13 usft	**Latitude:**	32° 6' 50.591 N
	+E/-W	0.0 usft	**Easting:**	869,869.94 usft	**Longitude:**	103° 16' 19.997 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**	usft	**Ground Level:**	0.0 usft

Wellbore VH - Job #32K1010785

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2010	10/13/2010	7.57	60.16	48,718

Design VH - Job #32K1010785

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	359.48

Survey Program **Date** 10/21/2010

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.0	6,936.0	Actual (VH - Job #32K1010785)	Keeper	Keeper Gyro

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	True Vertical Depth	North/South (usft)	East/West (usft)	Closure Azimuth (°)	Closure Distance (usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.0
100.0	0.04	272.63	100.0	0.0	0.0	272.63	0.0
200.0	0.30	315.45	200.0	0.2	-0.3	306.83	0.3
300.0	0.33	299.08	300.0	0.5	-0.7	306.86	0.9
400.0	0.34	292.69	400.0	0.8	-1.2	302.41	1.4
500.0	0.64	286.46	500.0	1.0	-2.0	297.28	2.3
600.0	0.96	294.38	600.0	1.5	-3.3	294.98	3.7
700.0	1.31	288.14	700.0	2.2	-5.2	293.51	5.6
800.0	1.40	287.18	799.9	3.0	-7.4	291.77	8.0
900.0	1.36	286.50	899.9	3.7	-9.7	290.63	10.4
1,000.0	1.48	289.66	999.9	4.4	-12.1	290.16	12.9
1,100.0	1.45	281.97	1,099.8	5.1	-14.5	289.44	15.4

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Site:	Lea County, NM	**MD Reference:**	WELL @ 0.0usft (Original Well Elev)
Well:	Herkimer "BQF" Federal #1H	**North Reference:**	Grid
Wellbore:	VH - Job #32K1010785	**Survey Calculation Method:**	Minimum Curvature
Design:	VH - Job #32K1010785	**Database:**	EDM-Regulatory

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	True Vertical Depth	North/South (usft)	East/West (usft)	Closure Azimuth (°)	Closure Distance (usft)
1,200.0	1.43	284.01	1,199.8	5.7	-17.0	288.54	17.9
1,300.0	1.50	281.05	1,299.8	6.2	-19.5	287.79	20.5
1,400.0	1.25	290.66	1,399.7	6.9	-21.8	287.54	22.8
1,500.0	0.82	30.46	1,499.7	7.9	-22.4	289.36	23.8
1,600.0	1.43	49.06	1,599.7	9.3	-21.1	293.80	23.1
1,700.0	1.17	69.31	1,699.7	10.5	-19.2	298.62	21.9
1,800.0	0.99	78.55	1,799.7	11.0	-17.4	302.32	20.6
1,900.0	0.92	85.78	1,899.7	11.3	-15.8	305.50	19.4
2,000.0	1.19	81.18	1,999.6	11.5	-14.0	309.42	18.1
2,100.0	1.48	77.24	2,099.6	11.9	-11.7	315.60	16.7
2,200.0	1.54	76.68	2,199.6	12.5	-9.1	323.95	15.5
2,300.0	1.77	70.82	2,299.5	13.3	-6.3	334.55	14.8
2,400.0	1.76	69.86	2,399.5	14.4	-3.4	346.52	14.8
2,500.0	2.02	65.28	2,499.4	15.6	-0.4	358.52	15.6
2,600.0	2.23	61.18	2,599.4	17.3	2.9	9.52	17.6
2,700.0	2.37	60.15	2,699.3	19.3	6.4	18.36	20.3
2,800.0	2.61	60.56	2,799.2	21.4	10.2	25.40	23.7
2,900.0	2.61	55.38	2,899.1	23.8	14.0	30.48	27.7
3,000.0	2.78	54.28	2,999.0	26.6	17.9	33.95	32.0
3,100.0	2.74	60.35	3,098.9	29.1	21.9	36.94	36.5
3,200.0	2.82	64.79	3,198.7	31.4	26.2	39.89	40.9
3,300.0	2.41	54.30	3,298.6	33.7	30.2	41.86	45.2
3,400.0	2.44	32.52	3,398.6	36.7	33.0	41.99	49.3
3,500.0	2.07	34.25	3,498.5	40.0	35.2	41.35	53.2
3,600.0	1.94	36.68	3,598.4	42.8	37.2	40.98	56.7
3,700.0	2.24	47.04	3,698.4	45.5	39.6	41.06	60.3
3,800.0	2.32	48.71	3,798.3	48.2	42.6	41.48	64.3
3,900.0	2.53	55.85	3,898.2	50.7	45.9	42.15	68.4
4,000.0	2.08	56.46	3,998.1	53.0	49.3	42.92	72.4
4,100.0	1.33	52.13	4,098.1	54.7	51.7	43.39	75.3
4,200.0	2.09	83.53	4,198.0	55.6	54.4	44.38	77.8
4,300.0	2.19	81.44	4,297.9	56.1	58.1	46.02	80.8
4,400.0	1.98	64.11	4,397.9	57.1	61.6	47.14	84.0
4,500.0	1.88	59.90	4,497.8	58.7	64.6	47.71	87.3
4,600.0	1.75	55.75	4,597.8	60.4	67.2	48.06	90.4
4,700.0	1.75	51.16	4,697.7	62.2	69.7	48.24	93.4
4,800.0	1.66	42.73	4,797.7	64.2	71.9	48.20	96.4
4,900.0	1.85	41.61	4,897.6	66.5	73.9	48.01	99.4
5,000.0	2.62	55.09	4,997.6	69.0	76.9	48.07	103.3
5,100.0	2.83	54.58	5,097.4	71.8	80.7	48.37	108.0
5,200.0	2.92	67.98	5,197.3	74.2	85.1	48.94	112.9
5,300.0	3.03	73.71	5,297.2	75.9	90.0	49.88	117.7
5,400.0	3.02	75.56	5,397.0	77.3	95.1	50.91	122.5
5,500.0	2.76	76.41	5,496.9	78.5	100.0	51.88	127.1

Scientific Drilling International, Inc.

SDI Standard Survey Report

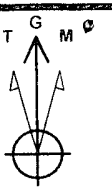
Company:	YATES PETROLEUM	**Local Co-ordinate Reference:**	Well Herkimer "BQF" Federal #1H
Project:	West Jal Delaware	**TVD Reference:**	WELL @ 0.0usft (Original Well Elev)
Site:	Lea County, NM	**MD Reference:**	WELL @ 0.0usft (Original Well Elev)
Well:	Herkimer "BQF" Federal #1H	**North Reference:**	Grid
Wellbore:	VH - Job #32K1010785	**Survey Calculation Method:**	Minimum Curvature
Design:	VH - Job #32K1010785	**Database:**	EDM-Regulatory

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	True Vertical Depth	North/South (usft)	East/West (usft)	Closure Azimuth (°)	Closure Distance (usft)
5,600.0	2.47	78.65	5,596.8	79.5	104.4	52.74	131.2
5,700.0	2.56	75.93	5,696.7	80.4	108.7	53.51	135.2
5,800.0	2.68	79.93	5,796.6	81.4	113.2	54.29	139.4
5,900.0	3.09	84.36	5,896.5	82.1	118.2	55.23	143.9
6,000.0	3.62	83.80	5,996.3	82.7	124.0	56.31	149.0
6,100.0	4.05	87.29	6,096.1	83.2	130.7	57.52	154.9
6,200.0	4.23	86.43	6,195.8	83.6	137.9	58.78	161.2
6,300.0	4.12	86.84	6,295.6	84.0	145.1	59.94	167.7
6,400.0	3.64	84.98	6,395.3	84.5	151.9	60.92	173.8
6,500.0	3.75	86.42	6,495.1	85.0	158.3	61.78	179.7
6,600.0	4.00	87.99	6,594.9	85.3	165.1	62.68	185.8
6,700.0	3.69	91.91	6,694.7	85.3	171.8	63.59	191.8
6,800.0	3.87	97.47	6,794.5	84.7	178.3	64.58	197.4
6,900.0	3.83	96.13	6,894.2	84.0	185.0	65.59	203.2
6,936.0	3.52	94.73	6,930.2	83.7	187.3	65.91	205.2

Scientific Drilling
Directional Drilling Operations

Project: West Jal Delaware
Lea County, NM
Well: Herkimer "BQF" Federal #1H
Wellbore: VH - Job #32K1010785
Design: VH - Job #32K1010785

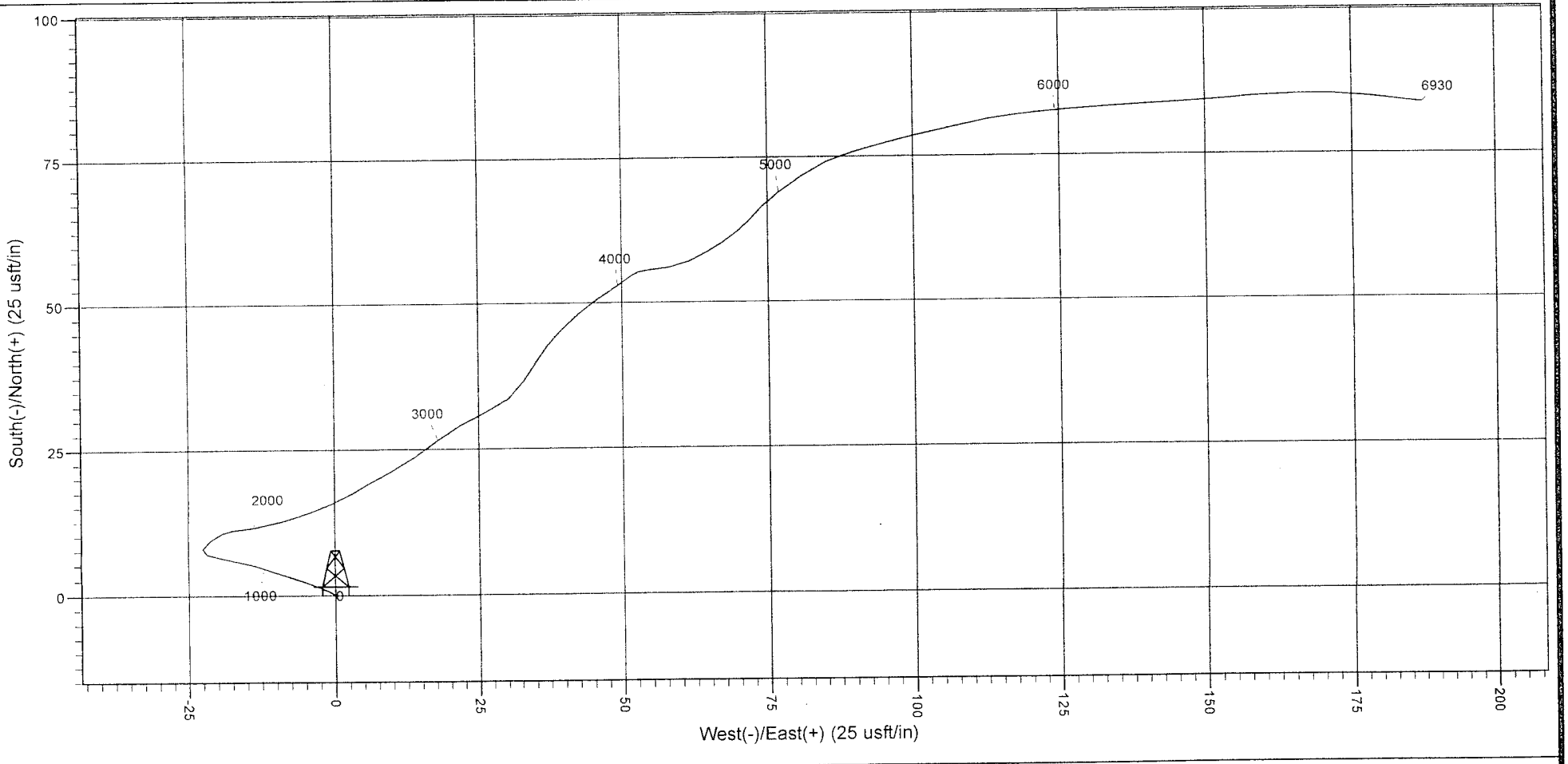


Azimuths to Grid North
True North: -0.56°
Magnetic North: 7.00°

Magnetic Field
Strength: 48718.2snT
Dip Angle: 60.16°
Date: 10/13/2010
Model: BGGM2010

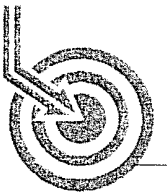
WELL DETAILS: Herkimer "BQF" Federal #1H
WELL @ 0.0usft (Original Well Elev)
Ground Level: 0.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	406846.13	869869.94	32° 6' 50.591 N	103° 16' 19.997 W	



PROJECT DETAILS: West Jal Delaware
Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level

SITE DETAILS: Lea County, NM
Site Centre Latitude: 32° 6' 53.900 N
Longitude: 103° 24' 20.713 W
Positional Uncertainity: 0.0
Convergence: 0.49
Local North: Grid



Scientific Drilling

Gyroscopic Survey Report
for
YATES

Well Location	LEA COUNTY,NEW MEXICO
Well Name	HERKIMER BQF FEDERAL #1H
Rig Name	LATSHAW #3
Survey Date	10/14/2010
Latitude	32.11 deg
North Reference	Grid North
Grid Correction	-0.56 deg
Depth Reference	18' K.B.
Calculation Method	Minimum Curvature
Section (VS) Ref	0.00N (ft), 0.00E (ft), 359.48Azim (deg)
Definitive Survey	FINAL GYRO SURVEY
Operator	J.SUTHERLAND

Comments

ZERO DEPTH REFEFENCE IS 18' K.B.

Scientific Drilling

Survey Report

Well Name:	HERKIMER BQF FEDERAL #1H
Survey:	FINAL GYRO SURVEY
Survey Date:	10/14/2010

MD	Inc	Azim	TVD	VS	Northing	Easting	DLS	Closure Distance	Closure Angle
ft	deg	deg	ft	ft	ft	ft	deg/100ft	ft	deg
0.00	0.00	0.00	0.00	0.00	0.00	0.00	Invalid	0.00	0.00
100.00	0.04	272.63	100.00	0.00	0.00	-0.04	0.04	0.04	272.63
200.00	0.30	315.45	200.00	0.19	0.19	-0.26	0.27	0.32	306.39
300.00	0.33	299.08	300.00	0.53	0.52	-0.70	0.10	0.87	306.67
400.00	0.34	292.69	400.00	0.79	0.78	-1.23	0.04	1.46	302.30
500.00	0.64	286.46	499.99	1.07	1.05	-2.05	0.30	2.30	297.23
600.00	0.96	294.38	599.98	1.59	1.56	-3.35	0.33	3.69	294.96
700.00	1.31	288.14	699.96	2.31	2.26	-5.20	0.38	5.67	293.50
800.00	1.40	287.18	799.93	3.05	2.98	-7.46	0.08	8.03	291.77
900.00	1.36	286.50	899.91	3.76	3.68	-9.76	0.04	10.43	290.64
1000.00	1.48	289.66	999.88	4.56	4.45	-12.11	0.14	12.90	290.16
1100.00	1.45	281.97	1099.84	5.27	5.14	-14.56	0.20	15.44	289.45
1200.00	1.43	284.01	1199.81	5.86	5.71	-17.01	0.05	17.94	288.55
1300.00	1.50	281.05	1299.78	6.44	6.26	-19.50	0.10	20.48	287.80
1400.00	1.25	290.66	1399.75	7.09	6.89	-21.80	0.34	22.86	287.55
1500.00	0.82	30.46	1499.74	8.10	7.90	-22.45	1.61	23.80	289.37
1600.00	1.43	49.06	1599.72	9.52	9.33	-21.15	0.71	23.11	293.81
1700.00	1.17	69.31	1699.69	10.69	10.51	-19.25	0.53	21.93	298.64
1800.00	0.99	78.55	1799.68	11.20	11.05	-17.44	0.25	20.65	302.34
1900.00	0.92	85.78	1899.66	11.42	11.28	-15.80	0.14	19.41	305.52
2000.00	1.19	81.18	1999.65	11.62	11.49	-13.97	0.29	18.09	309.45
2100.00	1.48	77.24	2099.62	12.05	11.94	-11.68	0.30	16.71	315.62
2200.00	1.54	76.68	2199.58	12.62	12.53	-9.12	0.06	15.50	323.95
2300.00	1.77	70.82	2299.54	13.41	13.35	-6.36	0.29	14.79	334.53
2400.00	1.76	69.86	2399.50	14.42	14.38	-3.46	0.03	14.79	346.48
2500.00	2.02	65.28	2499.44	15.65	15.65	-0.42	0.30	15.65	358.46
2600.00	2.23	61.18	2599.37	17.30	17.32	2.88	0.26	17.56	9.45
2700.00	2.37	60.15	2699.29	19.23	19.29	6.38	0.14	20.32	18.30
2800.00	2.61	60.56	2799.20	21.34	21.44	10.15	0.24	23.72	25.35
2900.00	2.61	55.38	2899.09	23.72	23.85	14.01	0.24	27.66	30.43
3000.00	2.78	54.28	2998.98	26.40	26.56	17.86	0.18	32.01	33.91
3100.00	2.74	60.35	3098.87	28.97	29.17	21.91	0.30	36.48	36.92
3200.00	2.82	64.79	3198.75	31.16	31.40	26.22	0.23	40.91	39.86
3300.00	2.41	54.30	3298.64	33.40	33.68	30.16	0.63	45.20	41.84
3400.00	2.44	32.52	3398.56	36.40	36.70	33.01	0.92	49.36	41.97
3500.00	2.07	34.25	3498.48	39.67	39.99	35.17	0.38	53.25	41.33
3600.00	1.94	36.68	3598.42	42.50	42.84	37.20	0.15	56.74	40.97
3700.00	2.24	47.04	3698.35	45.17	45.53	39.64	0.48	60.37	41.04
3800.00	2.32	48.71	3798.27	47.81	48.20	42.59	0.10	64.33	41.47

Scientific Drilling

Survey Report

Well Name:	HERKIMER BQF FEDERAL #1H
Survey:	FINAL GYRO SURVEY
Survey Date:	10/14/2010

MD	Inc	Azim	TVD	VS	Northing	Easting	DLS	Closure Distance	Closure Angle
ft	deg	deg	ft	ft	ft	ft	deg/100ft	ft	deg
3900.00	2.53	55.85	3898.18	50.36	50.78	45.94	0.37	68.48	42.14
4000.00	2.08	56.46	3998.10	52.57	53.02	49.28	0.45	72.38	42.91
4100.00	1.33	52.13	4098.06	54.26	54.73	51.70	0.76	75.29	43.37
4200.00	2.09	83.53	4198.01	55.15	55.65	54.43	1.18	77.84	44.37
4300.00	2.19	81.44	4297.94	55.61	56.14	58.14	0.12	80.82	46.00
4400.00	1.98	64.11	4397.88	56.62	57.18	61.58	0.66	84.03	47.12
4500.00	1.88	59.90	4497.82	58.17	58.75	64.56	0.18	87.29	47.69
4600.00	1.75	55.75	4597.77	59.83	60.44	67.24	0.18	90.41	48.05
4700.00	1.75	51.16	4697.73	61.62	62.26	69.69	0.14	93.45	48.23
4800.00	1.66	42.73	4797.68	63.62	64.28	71.86	0.27	96.41	48.19
4900.00	1.85	41.61	4897.63	65.87	66.55	73.92	0.20	99.46	48.00
5000.00	2.62	55.09	4997.56	68.36	69.06	76.87	0.93	103.34	48.06
5100.00	2.83	54.58	5097.44	71.07	71.80	80.76	0.20	108.06	48.36
5200.00	2.92	67.98	5197.32	73.41	74.19	85.12	0.68	112.92	48.93
5300.00	3.03	73.71	5297.19	75.06	75.88	90.02	0.32	117.74	49.87
5400.00	3.02	75.56	5397.05	76.42	77.28	95.11	0.10	122.55	50.91
5500.00	2.76	76.41	5496.92	77.60	78.51	100.01	0.26	127.14	51.87
5600.00	2.47	78.65	5596.81	78.55	79.50	104.47	0.31	131.28	52.73
5700.00	2.56	75.93	5696.72	79.47	80.46	108.74	0.15	135.27	53.50
5800.00	2.68	79.93	5796.61	80.38	81.41	113.21	0.22	139.44	54.28
5900.00	3.09	84.36	5896.49	81.01	82.09	118.20	0.46	143.91	55.22
6000.00	3.62	83.80	5996.32	81.57	82.69	124.01	0.53	149.06	56.30
6100.00	4.05	87.29	6096.09	82.01	83.20	130.68	0.49	154.92	57.52
6200.00	4.23	86.43	6195.83	82.34	83.60	137.89	0.19	161.25	58.77
6300.00	4.12	86.84	6295.57	82.71	84.03	145.15	0.11	167.72	59.93
6400.00	3.64	84.98	6395.34	83.12	84.50	151.90	0.50	173.82	60.91
6500.00	3.75	86.42	6495.13	83.54	84.99	158.33	0.15	179.70	61.77
6600.00	4.00	87.99	6594.90	83.81	85.31	165.08	0.26	185.82	62.67
6700.00	3.69	91.91	6694.67	83.76	85.33	171.78	0.40	191.80	63.59
6800.00	3.87	97.47	6794.46	83.16	84.78	178.34	0.41	197.47	64.57
6900.00	3.83	96.13	6894.23	82.30	83.99	185.00	0.10	203.18	65.58
6936.00	3.52	94.73	6930.16	82.06	83.77	187.30	0.89	205.18	65.90

Gyroscopic Survey Report for:
YATES

Well Locati LEA COUNTY,NEW MEXICO
Well Name HERKIMER BQF FEDERAL #1H
Rig Name: LATSHAW #3
Survey Dat 10/14/2010
Latitude: 32.11 deg
North Refe Grid North
Grid Corre -0.56 deg
Depth Refe 18' K.B.
Calculatior Minimum Curvature
Section (V: 0.00N (ft), 0.00E (ft), 359.48Azim (deg)
Definitive S FINAL GYRO SURVEY
Operator: J.SUTHERLAND

Comments:
ZERO DEPTH REFEFENCE IS 18' K.B.

Measured	Inclination	Azimuth [d	True Vertic	Vertical Se	Northing (L	Easting (D	Dog Leg S	Closure Di	Closure Angle [deg]
0	0	0	0	0	0	0	Invalid	0	0
100	0.04	272.63	100	0	0	-0.04	0.04	0.04	272.63
200	0.3	315.45	200	0.19	0.19	-0.26	0.27	0.32	306.39
300	0.33	299.08	300	0.53	0.52	-0.7	0.1	0.87	306.67
400	0.34	292.69	400	0.79	0.78	-1.23	0.04	1.46	302.3
500	0.64	286.46	499.99	1.07	1.05	-2.05	0.3	2.3	297.23
600	0.96	294.38	599.98	1.59	1.56	-3.35	0.33	3.69	294.96
700	1.31	288.14	699.96	2.31	2.26	-5.2	0.38	5.67	293.5
800	1.4	287.18	799.93	3.05	2.98	-7.46	0.08	8.03	291.77
900	1.36	286.5	899.91	3.76	3.68	-9.76	0.04	10.43	290.64
1000	1.48	289.66	999.88	4.56	4.45	-12.11	0.14	12.9	290.16
1100	1.45	281.97	1099.84	5.27	5.14	-14.56	0.2	15.44	289.45
1200	1.43	284.01	1199.81	5.86	5.71	-17.01	0.05	17.94	288.55
1300	1.5	281.05	1299.78	6.44	6.26	-19.5	0.1	20.48	287.8
1400	1.25	290.66	1399.75	7.09	6.89	-21.8	0.34	22.86	287.55
1500	0.82	30.46	1499.74	8.1	7.9	-22.45	1.61	23.8	289.37
1600	1.43	49.06	1599.72	9.52	9.33	-21.15	0.71	23.11	293.81

SUR: K-21-25s-36e, 1980/S & 1980/W
BHL: C-21-25s-36e, 4912/S & 1980/W
API #30-025-20381

1700	1.17	69.31	1699.69	10.69	10.51	-19.25	0.53	21.93	298.64
1800	0.99	78.55	1799.68	11.2	11.05	-17.44	0.25	20.65	302.34
1900	0.92	85.78	1899.66	11.42	11.28	-15.8	0.14	19.41	305.52
2000	1.19	81.18	1999.65	11.62	11.49	-13.97	0.29	18.09	309.45
2100	1.48	77.24	2099.62	12.05	11.94	-11.68	0.3	16.71	315.62
2200	1.54	76.68	2199.58	12.62	12.53	-9.12	0.06	15.5	323.95
2300	1.77	70.82	2299.54	13.41	13.35	-6.36	0.29	14.79	334.53
2400	1.76	69.86	2399.5	14.42	14.38	-3.46	0.03	14.79	346.48
2500	2.02	65.28	2499.44	15.65	15.65	-0.42	0.3	15.65	358.46
2600	2.23	61.18	2599.37	17.3	17.32	2.88	0.26	17.56	9.45
2700	2.37	60.15	2699.29	19.23	19.29	6.38	0.14	20.32	18.3
2800	2.61	60.56	2799.2	21.34	21.44	10.15	0.24	23.72	25.35
2900	2.61	55.38	2899.09	23.72	23.85	14.01	0.24	27.66	30.43
3000	2.78	54.28	2998.98	26.4	26.56	17.86	0.18	32.01	33.91
3100	2.74	60.35	3098.87	28.97	29.17	21.91	0.3	36.48	36.92
3200	2.82	64.79	3198.75	31.16	31.4	26.22	0.23	40.91	39.86
3300	2.41	54.3	3298.64	33.4	33.68	30.16	0.63	45.2	41.84
3400	2.44	32.52	3398.56	36.4	36.7	33.01	0.92	49.36	41.97
3500	2.07	34.25	3498.48	39.67	39.99	35.17	0.38	53.25	41.33
3600	1.94	36.68	3598.42	42.5	42.84	37.2	0.15	56.74	40.97
3700	2.24	47.04	3698.35	45.17	45.53	39.64	0.48	60.37	41.04
3800	2.32	48.71	3798.27	47.81	48.2	42.59	0.1	64.33	41.47
3900	2.53	55.85	3898.18	50.36	50.78	45.94	0.37	68.48	42.14
4000	2.08	56.46	3998.1	52.57	53.02	49.28	0.45	72.38	42.91
4100	1.33	52.13	4098.06	54.26	54.73	51.7	0.76	75.29	43.37
4200	2.09	83.53	4198.01	55.15	55.65	54.43	1.18	77.84	44.37
4300	2.19	81.44	4297.94	55.61	56.14	58.14	0.12	80.82	46
4400	1.98	64.11	4397.88	56.62	57.18	61.58	0.66	84.03	47.12
4500	1.88	59.9	4497.82	58.17	58.75	64.56	0.18	87.29	47.69
4600	1.75	55.75	4597.77	59.83	60.44	67.24	0.18	90.41	48.05
4700	1.75	51.16	4697.73	61.62	62.26	69.69	0.14	93.45	48.23
4800	1.66	42.73	4797.68	63.62	64.28	71.86	0.27	96.41	48.19
4900	1.85	41.61	4897.63	65.87	66.55	73.92	0.2	99.46	48
5000	2.62	55.09	4997.56	68.36	69.06	76.87	0.93	103.34	48.06
5100	2.83	54.58	5097.44	71.07	71.8	80.76	0.2	108.06	48.36
5200	2.92	67.98	5197.32	73.41	74.19	85.12	0.68	112.92	48.93
5300	3.03	73.71	5297.19	75.06	75.88	90.02	0.32	117.74	49.87

5400	3.02	75.56	5397.05	76.42	77.28	95.11	0.1	122.55	50.91
5500	2.76	76.41	5496.92	77.6	78.51	100.01	0.26	127.14	51.87
5600	2.47	78.65	5596.81	78.55	79.5	104.47	0.31	131.28	52.73
5700	2.56	75.93	5696.72	79.47	80.46	108.74	0.15	135.27	53.5
5800	2.68	79.93	5796.61	80.38	81.41	113.21	0.22	139.44	54.28
5900	3.09	84.36	5896.49	81.01	82.09	118.2	0.46	143.91	55.22
6000	3.62	83.8	5996.32	81.57	82.69	124.01	0.53	149.06	56.3
6100	4.05	87.29	6096.09	82.01	83.2	130.68	0.49	154.92	57.52
6200	4.23	86.43	6195.83	82.34	83.6	137.89	0.19	161.25	58.77
6300	4.12	86.84	6295.57	82.71	84.03	145.15	0.11	167.72	59.93
6400	3.64	84.98	6395.34	83.12	84.5	151.9	0.5	173.82	60.91
6500	3.75	86.42	6495.13	83.54	84.99	158.33	0.15	179.7	61.77
6600	4	87.99	6594.9	83.81	85.31	165.08	0.26	185.82	62.67
6700	3.69	91.91	6694.67	83.76	85.33	171.78	0.4	191.8	63.59
6800	3.87	97.47	6794.46	83.16	84.78	178.34	0.41	197.47	64.57
6900	3.83	96.13	6894.23	82.3	83.99	185	0.1	203.18	65.58
6936	3.52	94.73	6930.16	82.06	83.77	187.3	0.89	205.18	65.9