Results of Directional Survey

API number:	30-025-40626			
OGRID:		Operator:	DEVON ENERGY PRODUCTION COMPANY, LP	
		Property:	GAUCHO 21 FEDERAL	# 2H

surface	ULSTR:	M	21	T	22S	R	34E
				375	FSL	375	FWL
BH Loc	ULSTR:	D	21	T	22S	R	34E
12600	MD	8396.2	TVD	375	FNL	360	FWL
				4905	FSL		
Top Perf/OH	ULSTR:	M	21	T	22S	R	34E
8625	MD	8460.3	TVD	945	FSL	393	FWL
Bot Perf/OH	ULSTR:	D	21	T	22S	R	34E
12538	MD	8400.0	TVD	437	FNL	364	FWL
				4843	FSL		

	MD	N/S	E/W	VD
	8610	556.08	16.08	8455.42
TOP PERFS/OH	**8625**	570.26	18.16	8460.28
	8642	586.32	20.52	8465.78
	12535	4465.11	-10.72	8400.13
BOT PERFS/OH	**12538**	4468.10	-10.94	8399.95
	12600	4529.82	-15.45	8396.18

NEXT TO LAST	12535	4465.11	-10.72	8400.13
LAST READING	12600	4529.82	-15.45	8396.18
TD	**12600**	4529.82	-15.45	8396.18

Surface Location	375	FS	375	FW
Projected BHL	4905	FS	360	FW
Location of				
Top Perfs/OH	945	FS	393	FW
Bottom Perfs/OH	4843	FS	364	FW

SUMMARY of Subsurface Locations

Surface Location	M-21-22S-34E	375	FS	375	FW	Vert. Depth
Top Perfs/OH	M-21-22S-34E	945	FS	393	FW	8460.28
Bottom Perfs/OH	D-21-22S-34E	4843	FS	364	FW	8399.95
Projected TD	D-21-22S-34E	4905	FS	360	FW	8396.18

DEC 20 2012

VES
VAUGHN ENERGY SERVICES
A GYRO TECHNOLOGIES INC. COMPANY

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

July 31, 2012

Devon Energy Production Co., L. P.
333 West Sheridan Ave
Oklahoma City, Oklahoma 73102-5010

HOBBS OCD

DEC 05 2012

RECEIVED

Attn: Mark Cooper

Re: **Gaucho 21 Federal No. 002H**

Please find enclosed a copy of the survey from 0.00' to 7736.00' ran on the above referenced well.

If I can be of any further service please do not hesitate to call me at 800-606-4976.

Sincerely,

Keith Havelka
Operations

SUR: M-21-22s-34e, 375/S & 375/W
BHL: D-21-22s-34e, 4905/S & 360/W
API # 30-025-40626

STATE OF TEXAS §
§
COUNTY OF NUECES §

This instrument was acknowledged before me on the 2nd day of August, A.D., 2012, by Keith Havelka.

Laura Ballew
Notary Public, State of Texas

LAURA BALLEW
Notary Public, State of Texas
My Commission Expires
January 28, 2014

Company: Devon Energy Production Co., LP
Lease/Well: Gaucho 21 Federal / No. 002H

Rig Name: H&P 416
State/County: New Mexico /Eddy
Latitude: 32.22
GRID North is 0.56 Degrees East of True North
VS-Azi: 0.00 Degrees

Depth Reference : 25'

DRILLOG HA GYRO SURVEY CALCULATIONS
Filename: gaucho 21 fedural 2h_ed.ut
Minimum Curvature Method
Report Date/Time: 7/31/2012 / 10:37

Vaughn Energy Services
Woodward, Oklahoma
580-254-5000
Surveyor: Nick Harding
Guacho 21 Federal No. 002H / API 30-025-40626

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section 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	0.00	****
100.00	0.61	61.40	100.00	0.26	0.47	0.26	0.53	61.40	0.61
200.00	0.79	50.11	199.99	0.95	1.47	0.95	1.75	56.99	0.22
300.00	0.97	52.27	299.98	1.91	2.66	1.91	3.27	54.34	0.18
400.00	1.18	25.54	399.96	3.36	3.77	3.36	5.05	48.34	0.54
500.00	1.51	41.65	499.93	5.27	5.09	5.27	7.32	44.01	0.49
600.00	1.78	25.07	599.89	7.66	6.62	7.66	10.13	40.85	0.55
700.00	2.30	44.22	699.83	10.51	8.68	10.51	13.63	39.56	0.85
800.00	2.55	43.52	799.74	13.56	11.62	13.56	17.86	40.58	0.25
900.00	3.07	39.10	899.62	17.26	14.84	17.26	22.76	40.69	0.56
1000.00	3.67	49.83	999.45	21.40	18.97	21.40	28.59	41.56	0.87
1100.00	4.11	41.75	1099.22	26.13	23.80	26.13	35.35	42.33	0.70
1200.00	4.47	43.23	1198.94	31.65	28.86	31.65	42.83	42.36	0.37
1300.00	4.54	45.21	1298.63	37.27	34.33	37.27	50.68	42.65	0.17
1400.00	4.74	49.74	1398.30	42.73	40.29	42.73	58.73	43.32	0.42
1500.00	4.86	45.21	1497.95	48.38	46.45	48.38	67.07	43.83	0.40
1600.00	4.68	48.58	1597.61	54.06	52.51	54.06	75.37	44.17	0.33
1700.00	4.85	47.42	1697.26	59.62	58.69	59.62	83.66	44.55	0.19
1800.00	4.91	45.49	1796.90	65.48	64.85	65.48	92.16	44.72	0.18

VES Survey Date: 07/23/2012

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
1900.00	4.69	46.50	1896.55	71.30	70.87	71.30	100.53	44.83	0.24
2000.00	4.68	48.02	1996.21	76.84	76.87	76.84	108.69	45.01	0.12
2100.00	4.25	49.09	2095.91	82.00	82.70	82.00	116.46	45.25	0.44
2200.00	4.40	52.31	2195.62	86.77	88.54	86.77	123.97	45.58	0.28
2300.00	5.00	50.04	2295.29	91.92	94.92	91.92	132.13	45.92	0.63
2400.00	5.30	49.01	2394.88	97.75	101.75	97.75	141.10	46.15	0.31
2500.00	5.55	50.60	2494.44	103.85	108.97	103.85	150.53	46.38	0.29
2600.00	5.70	48.08	2593.95	110.23	116.40	110.23	160.31	46.56	0.29
2700.00	5.78	52.42	2693.45	116.62	124.09	116.62	170.29	46.78	0.44
2800.00	6.77	58.48	2792.85	122.77	133.10	122.77	181.07	47.31	1.19
2900.00	7.86	62.77	2892.04	128.98	144.20	128.98	193.47	48.19	1.22
3000.00	8.37	62.76	2991.04	135.44	156.76	135.44	207.16	49.17	0.51
3100.00	8.10	63.71	3090.01	141.89	169.54	141.89	221.08	50.07	0.31
3200.00	7.48	62.58	3189.09	148.01	181.63	148.01	234.30	50.82	0.64
3300.00	7.38	62.95	3288.25	153.93	193.13	153.93	246.97	51.44	0.11
3400.00	7.10	63.20	3387.45	159.64	204.37	159.64	259.33	52.01	0.28
3500.00	6.67	68.25	3486.73	164.58	215.28	164.58	270.98	52.60	0.74
3600.00	5.20	73.49	3586.19	168.02	225.02	168.02	280.83	53.25	1.56
3700.00	3.85	92.79	3685.88	169.14	232.72	169.14	287.70	53.99	2.02
3800.00	2.96	105.35	3785.70	168.30	238.56	168.30	291.95	54.80	1.16
3900.00	2.08	107.98	3885.61	167.05	242.78	167.05	294.70	55.47	0.88
4000.00	1.46	113.01	3985.56	165.99	245.68	165.99	296.50	55.95	0.64
4100.00	1.20	112.25	4085.53	165.10	247.81	165.10	297.78	56.33	0.26
4200.00	0.78	106.49	4185.52	164.51	249.44	164.51	298.80	56.59	0.42
4300.00	0.67	100.22	4285.51	164.22	250.67	164.22	299.67	56.77	0.14
4400.00	0.85	66.55	4385.50	164.41	251.92	164.41	300.82	56.87	0.47
4500.00	0.80	69.83	4485.49	164.94	253.25	164.94	302.23	56.92	0.07
4600.00	0.93	82.05	4585.48	165.30	254.71	165.30	303.65	57.02	0.22
4700.00	1.05	80.62	4685.46	165.56	256.42	165.56	305.22	57.15	0.12
4800.00	1.31	80.97	4785.44	165.89	258.45	165.89	307.11	57.31	0.26
4900.00	1.23	82.77	4885.42	166.20	260.65	166.20	309.13	57.48	0.09
5000.00	1.09	91.26	4985.40	166.32	262.67	166.32	310.89	57.66	0.22
5100.00	1.10	78.53	5085.38	166.49	264.56	166.49	312.59	57.82	0.24
5200.00	1.12	83.48	5185.36	166.79	266.48	166.79	314.37	57.96	0.10
5300.00	0.91	98.25	5285.34	166.79	268.24	166.79	315.87	58.13	0.33
5400.00	0.69	109.09	5385.33	166.47	269.60	166.47	316.86	58.31	0.27
5500.00	0.40	63.17	5485.33	166.43	270.49	166.43	317.59	58.40	0.50
5600.00	0.60	34.44	5585.33	167.02	271.09	167.02	318.42	58.36	0.31
5700.00	0.66	20.86	5685.32	167.99	271.59	167.99	319.35	58.26	0.16

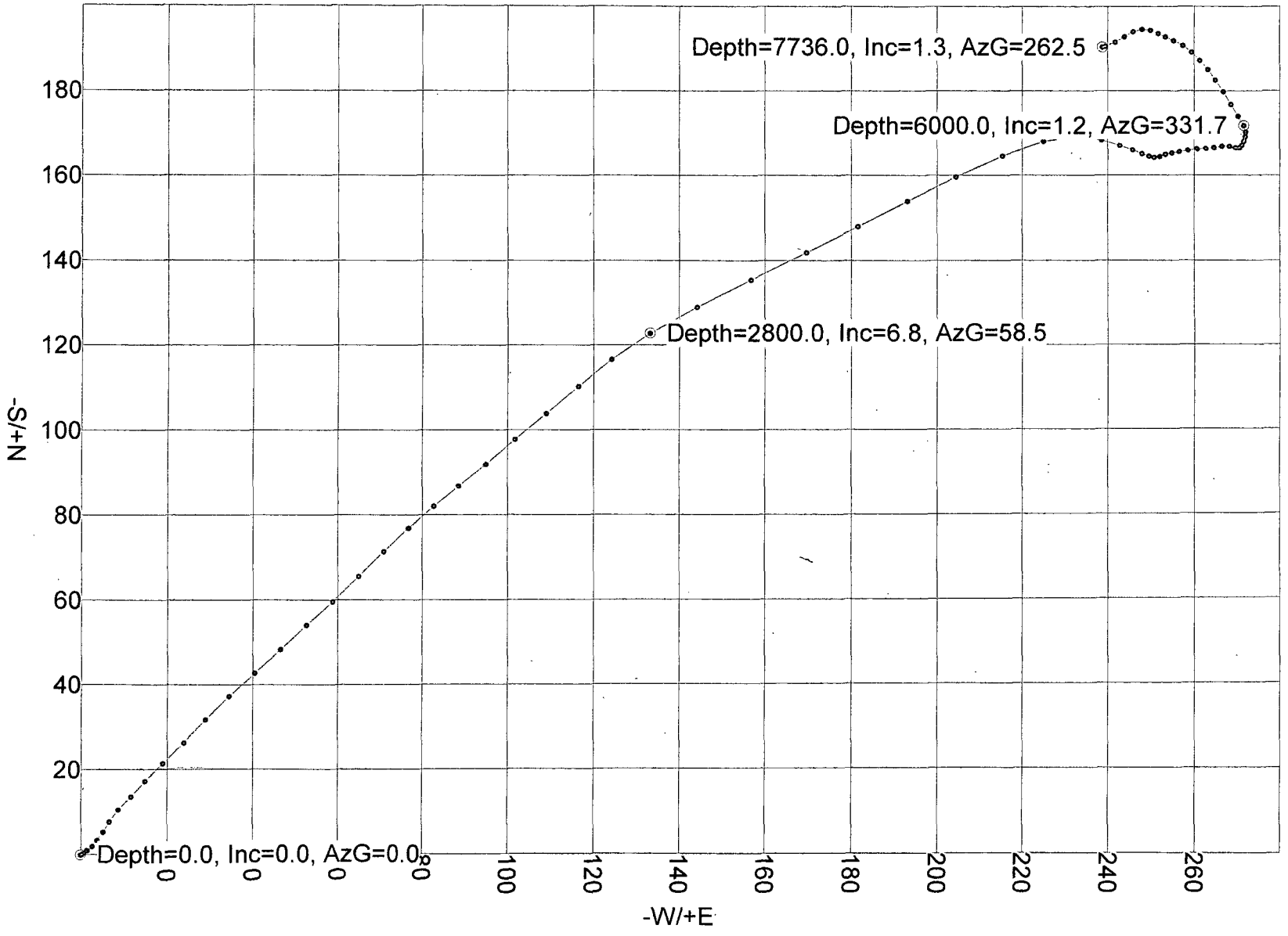
VES Survey Date: 07/23/2012

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
5800.00	0.62	11.03	5785.31	169.06	271.90	169.06	320.18	58.13	0.12
5900.00	0.69	0.83	5885.31	170.20	272.02	170.20	320.88	57.97	0.14
6000.00	1.21	331.69	5985.29	171.74	271.52	171.74	321.28	57.69	0.69
6100.00	1.77	326.60	6085.26	173.95	270.17	173.95	321.33	57.22	0.57
6200.00	1.97	331.56	6185.21	176.75	268.51	176.75	321.46	56.64	0.26
6300.00	2.03	327.83	6285.15	179.76	266.74	179.76	321.66	56.02	0.15
6400.00	1.81	324.43	6385.09	182.55	264.88	182.55	321.69	55.43	0.25
6500.00	1.68	325.02	6485.04	185.04	263.12	185.04	321.67	54.88	0.14
6600.00	1.54	316.45	6585.00	187.21	261.35	187.21	321.49	54.38	0.28
6700.00	1.63	314.94	6684.96	189.19	259.42	189.19	321.08	53.90	0.10
6800.00	1.37	298.45	6784.93	190.77	257.36	190.77	320.35	53.45	0.50
6900.00	1.40	299.69	6884.90	191.94	255.25	191.94	319.36	53.06	0.04
7000.00	1.02	291.03	6984.88	192.87	253.35	192.87	318.41	52.72	0.42
7100.00	1.12	299.36	7084.86	193.67	251.67	193.67	317.56	52.42	0.18
7200.00	1.13	286.62	7184.84	194.43	249.87	194.43	316.61	52.11	0.25
7300.00	1.16	265.91	7284.82	194.64	247.93	194.64	315.20	51.87	0.41
7400.00	1.33	246.02	7384.80	194.09	245.86	194.09	313.24	51.71	0.46
7500.00	1.40	232.94	7484.77	192.88	243.82	192.88	310.89	51.65	0.32
7600.00	1.48	244.09	7584.74	191.59	241.69	191.59	308.41	51.60	0.29
7700.00	1.27	248.08	7684.71	190.61	239.50	190.61	306.09	51.48	0.23
7736.00	1.28	262.49	7720.70	190.41	238.73	190.41	305.37	51.42	0.89

devon

Vaughn Energy Services
Woodward, Oklahoma
580-254-5000
Surveyor: Nick Harding
Guacho 21 Federal No. 002H / API 30-025-40626

VES
VAUGHN ENERGY SERVICES



VES Survey Date: 07/23/2012

Weatherford®
Evaluation, Drilling & Intervention
10000 West County Rd. 116
P.O. Box 61028
Midland, TX USA 79711
Tel. (432) 561-8892 Fax (432) 561-8895

Devon Energy
20 North Broadway
Oklahoma City, OK, 73102

Date: August 3, 2012

Attention: Kurtis Schmitz

Re: Devon Energy
Well: Gaucho 21 Federal #2H
Lea County, New Mexico

SUR: M-21-22s-34e, 375/S & 375/W
BHL: D-21-22s-34e, 4905/S & 360/W
API # 30-025-40626

Enclosed, please find the original survey performed on the referenced well by Precision Energy Services, Inc. (P-5 No. 676004), a Weatherford company. Other information required by your office is as follows:

Name & Title Of Surveyor	Well Number	Surveyed Depths	Dates Performed	Type of Survey
Seth Cash MWD Supervisor	2H	7853' MD 12535' MD	7/22/2010 8/2/2010	Measurement While Drilling

A notarized plan vs. actual is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.

Jesse Aguilar
Area Manager

On this, the 6th day of August, 2012, before me a notary public, the undersigned officer, personally appeared Jesse Aguilar, known to me (or satisfactorily proven) to be the person whose name is subscribed to the within instrument, and acknowledged that he executed the same for the purposes therein contained.

In witness hereof, I hereunto set my hand and official seal.

Amanda Cuyler
Notary Public

AMANDA CUYLER
NOTARY PUBLIC
STATE OF TEXAS
My Comm. Exp. 03-12-2016

Weatherford
WFT Survey Report X & Y's

Company:	Devon Energy	**Date:**	8/2/2012	**Time:** 05:34:57	**Page:** 1
Field:	Lea County, New Mexico (NAD 83)	**Co-ordinate(NE) Reference:**	Well: Gaucho 21 Fed #2H, Grid North		
Site:	Gaucho 21 Federal #2H	**Vertical (TVD) Reference:**	SITE 3464.0		
Well:	Gaucho 21 Fed #2H	**Section (VS) Reference:**	Well (0.00N,0.00E,359.74Azi)		
Wellpath:	1	**Survey Calculation Method:**	Minimum Curvature	**Db:**	Sybase

Survey:	Wft Svy	**Start Date:**	7/25/2012
Company:	Weatherford International Ltd.	**Engineer:**	Keith Noack
Tool:	MWD;MWD - Standard	**Tied-to:**	User Defined

Field:	Lea County, New Mexico (NAD 83)		
Map System:	US State Plane Coordinate System 1983	**Map Zone:**	New Mexico, Eastern Zone
Geo Datum:	GRS 1980	**Coordinate System:**	Well Centre
Sys Datum:	Mean Sea Level	**Geomagnetic Model:**	IGRF2010

Site:	Gaucho 21 Federal #2H					
Site Position:		**Northing:**	499732.43 ft	**Latitude:**	32 22 15.456 N	
From:	Map	**Easting:**	804059.05 ft	**Longitude:**	103 28 56.592 W	
Position Uncertainty:	0.00 ft			**North Reference:**	Grid	
Ground Level:	3439.00 ft			**Grid Convergence:**	0.46 deg	

Well:	Gaucho 21 Fed #2H			**Slot Name:**		
Well Position:	+N/-S 0.00 ft	**Northing:**	499732.43 ft	**Latitude:**	32 22 15.456 N	
	+E/-W 0.00 ft	**Easting:**	804059.05 ft	**Longitude:**	103 28 56.592 W	
Position Uncertainty:	0.00 ft					

Wellpath:	1			**Drilled From:**	Surface
				Tie-on Depth:	0.00 ft
Current Datum:	SITE	**Height**	3464.00 ft	**Above System Datum:**	Mean Sea Level
Magnetic Data:	7/15/2012			**Declination:**	7.42 deg
Field Strength:	48632 nT			**Mag Dip Angle:**	60.31 deg

Vertical Section:	**Depth From (TVD)**	**+N/-S**	**+E/-W**	**Direction**
	ft	ft	ft	deg
	0.00	0.00	0.00	359.74

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	DLS deg/100ft	VS ft	MapN ft	MapE ft	Comment
7736.00	1.28	262.49	7720.70	190.41	238.73	0.00	189.32	499922.84	804297.78	Tie On VES
7853.00	3.14	321.10	7837.62	192.73	235.42	2.31	191.66	499925.16	804294.47	First Wft Svy
7885.00	6.36	339.99	7869.51	195.08	234.26	11.06	194.02	499927.51	804293.31	
7915.00	9.78	342.15	7899.21	199.07	232.91	11.44	198.01	499931.50	804291.96	
7947.00	11.08	344.91	7930.68	204.63	231.28	4.35	203.57	499937.06	804290.33	
7979.00	8.86	349.04	7962.20	210.01	230.01	7.28	208.97	499942.44	804289.06	
8010.00	10.41	359.00	7992.76	215.16	229.51	7.33	214.12	499947.59	804288.56	
8042.00	13.07	6.73	8024.09	221.64	229.88	9.64	220.60	499954.07	804288.93	
8073.00	15.84	9.09	8054.10	229.31	230.96	9.13	228.25	499961.74	804290.01	
8105.00	18.13	9.35	8084.71	238.53	232.46	7.16	237.47	499970.96	804291.51	
8137.00	21.13	5.86	8114.84	249.18	233.86	10.06	248.12	499981.61	804292.91	
8168.00	23.60	357.44	8143.52	260.95	234.15	13.03	259.88	499993.38	804293.20	
8200.00	26.67	8.09	8172.50	274.47	234.88	17.05	273.40	500006.90	804293.93	
8231.00	28.02	10.56	8200.04	288.51	237.19	5.69	287.43	500020.94	804296.24	
8263.00	30.52	10.73	8227.95	303.89	240.08	7.82	302.80	500036.32	804299.13	
8294.00	33.74	10.76	8254.20	320.08	243.16	10.39	318.98	500052.51	804302.21	
8326.00	36.80	9.92	8280.32	338.26	246.47	9.68	337.14	500070.69	804305.52	
8357.00	40.71	10.02	8304.49	357.37	249.83	12.61	356.23	500089.80	804308.88	
8389.00	43.60	7.73	8328.21	378.59	253.13	10.23	377.43	500111.02	804312.18	
8420.00	46.49	7.51	8350.11	400.33	256.03	9.34	399.16	500132.76	804315.08	
8452.00	49.03	7.73	8371.62	423.81	259.18	7.95	422.63	500156.24	804318.23	
8483.00	52.21	6.59	8391.29	447.58	262.16	10.64	446.38	500180.01	804321.21	
8515.00	55.28	6.42	8410.21	473.21	265.08	9.60	472.01	500205.64	804324.13	
8547.00	59.05	6.54	8427.56	499.92	268.11	11.79	498.70	500232.35	804327.16	

Weatherford
WFT Survey Report X & Y's

Company:	Devon Energy	**Date:** 8/2/2012 **Time:** 05:34:57	**Page:** 2
Field:	Lea County, New Mexico (NAD 83)	**Co-ordinate(NE) Reference:**	Well: Gaucho 21 Fed #2H, Grid North
Site:	Gaucho 21 Federal #2H	**Vertical (TVD) Reference:**	SITE 3464.0
Well:	Gaucho 21 Fed #2H	**Section (VS) Reference:**	Well (0.00N,0.00E,359.74Azi)
Wellpath:	1	**Survey Calculation Method:**	Minimum Curvature **Db:** Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	DLS deg/100ft	VS ft	MapN ft	MapE ft	Comment
8578.00	63.67	6.13	8442.41	526.96	271.11	14.95	525.72	500259.39	804330.16	
8610.00	68.37	3.84	8455.42	556.08	273.64	16.08	554.83	500288.51	804332.69	
8642.00	73.84	0.00	8465.78	586.32	274.64	20.52	585.06	500318.75	804333.69	
8673.00	80.08	358.13	8472.77	616.50	274.14	20.97	615.25	500348.93	804333.19	
8705.00	85.03	357.31	8476.91	648.19	272.88	15.68	646.95	500380.62	804331.93	
8736.00	86.57	357.44	8479.19	679.07	271.46	4.99	677.84	500411.50	804330.51	
8768.00	89.66	358.32	8480.24	711.03	270.28	10.04	709.80	500443.46	804329.33	
8799.00	93.43	358.70	8479.40	742.00	269.47	12.22	740.77	500474.43	804328.52	
8831.00	94.07	359.00	8477.31	773.93	268.83	2.21	772.70	500506.36	804327.88	
8863.00	94.13	358.95	8475.02	805.84	268.26	0.24	804.62	500538.27	804327.31	
8894.00	94.12	358.64	8472.79	836.75	267.61	1.00	835.53	500569.18	804326.66	
8926.00	93.84	358.28	8470.57	868.67	266.75	1.42	867.45	500601.10	804325.80	
8957.00	94.06	358.04	8468.43	899.58	265.76	1.05	898.36	500632.01	804324.81	
8989.00	93.43	357.38	8466.34	931.48	264.48	2.85	930.27	500663.91	804323.53	
9020.00	92.40	356.77	8464.77	962.40	262.90	3.86	961.20	500694.83	804321.95	
9052.00	92.46	356.63	8463.41	994.32	261.06	0.48	993.12	500726.75	804320.11	
9084.00	92.80	356.77	8461.94	1026.23	259.22	1.15	1025.05	500758.66	804318.27	
9147.00	92.17	356.63	8459.21	1089.07	255.60	1.02	1087.90	500821.50	804314.65	
9178.00	92.34	356.77	8457.99	1119.99	253.82	0.71	1118.83	500852.42	804312.87	
9241.00	90.11	355.63	8456.64	1182.84	249.64	3.98	1181.69	500915.27	804308.69	
9273.00	89.94	355.14	8456.63	1214.73	247.07	1.62	1213.60	500947.16	804306.12	
9367.00	89.71	354.19	8456.92	1308.32	238.33	1.04	1307.23	501040.75	804297.38	
9462.00	89.94	354.11	8457.21	1402.83	228.65	0.26	1401.78	501135.26	804287.70	
9556.00	90.40	357.40	8456.93	1496.56	221.69	3.53	1495.53	501228.99	804280.74	
9650.00	90.23	354.66	8456.41	1590.32	215.18	2.92	1589.33	501322.75	804274.23	
9745.00	90.97	354.93	8455.42	1684.92	206.56	0.83	1683.97	501417.35	804265.61	
9839.00	90.40	354.69	8454.29	1778.53	198.06	0.66	1777.61	501510.96	804257.11	
9934.00	90.40	354.69	8453.63	1873.12	189.27	0.00	1872.24	501605.55	804248.32	
10029.00	89.71	354.17	8453.54	1967.67	180.05	0.91	1966.83	501700.10	804239.10	
10123.00	91.66	356.15	8452.42	2061.32	172.12	2.96	2060.52	501793.75	804231.17	
10218.00	90.46	356.42	8450.66	2156.10	165.96	1.29	2155.33	501888.53	804225.01	
10312.00	91.09	356.84	8449.39	2249.93	160.44	0.81	2249.18	501982.36	804219.49	
10407.00	90.86	356.44	8447.77	2344.75	154.87	0.49	2344.03	502077.18	804213.92	
10502.00	92.97	355.64	8444.60	2439.47	148.32	2.38	2438.77	502171.90	804207.37	
10596.00	93.14	355.40	8439.59	2533.05	140.98	0.31	2532.38	502265.48	804200.03	
10691.00	93.03	355.43	8434.47	2627.61	133.40	0.12	2626.97	502360.04	804192.45	
10785.00	92.80	355.90	8429.69	2721.21	126.31	0.56	2720.61	502453.64	804185.36	
10880.00	93.48	356.02	8424.49	2815.84	119.62	0.73	2815.26	502548.27	804178.67	
10974.00	91.43	355.55	8420.46	2909.49	112.72	2.24	2908.95	502641.92	804171.77	
11069.00	91.60	355.99	8417.95	3004.20	105.72	0.50	3003.69	502736.63	804164.77	
11164.00	89.71	355.20	8416.87	3098.91	98.42	2.16	3098.43	502831.34	804157.47	
11258.00	89.37	355.69	8417.62	3192.61	90.95	0.63	3192.16	502925.04	804150.00	
11353.00	89.09	355.69	8418.90	3287.33	83.82	0.29	3286.91	503019.76	804142.87	
11447.00	88.97	356.10	8420.49	3381.07	77.09	0.45	3380.69	503113.50	804136.14	
11542.00	90.63	355.42	8420.82	3475.81	70.06	1.89	3475.46	503208.24	804129.11	
11637.00	90.29	355.69	8420.06	3570.52	62.70	0.46	3570.20	503302.95	804121.75	
11731.00	92.06	355.20	8418.13	3664.20	55.24	1.95	3663.91	503396.63	804114.29	
11826.00	91.54	355.15	8415.15	3758.82	47.25	0.55	3758.56	503491.25	804106.30	
11921.00	91.14	355.16	8412.92	3853.45	39.23	0.42	3853.23	503585.88	804098.28	
12015.00	89.77	355.03	8412.18	3947.10	31.19	1.46	3946.92	503679.53	804090.24	
12110.00	89.66	354.95	8412.65	4041.74	22.90	0.14	4041.59	503774.17	804081.95	
12204.00	90.29	355.23	8412.69	4135.39	14.85	0.73	4135.28	503867.82	804073.90	

Weatherford
WFT Survey Report X & Y's

Company:	Devon Energy	**Date:** 8/2/2012	**Time:** 05:34:57	**Page:**	3
Field:	Lea County, New Mexico (NAD 83)	**Co-ordinate(NE) Reference:**	Well: Gaucho 21 Fed #2H, Grid North		
Site:	Gaucho 21 Federal #2H	**Vertical (TVD) Reference:**	SITE 3464.0		
Well:	Gaucho 21 Fed #2H	**Section (VS) Reference:**	Well (0.00N,0.00E,359.74Azi)		
Wellpath:	1	**Survey Calculation Method:**	Minimum Curvature	**Db:**	Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	DLS deg/100ft	VS ft	MapN ft	MapE ft	Comment
12299.00	91.48	355.44	8411.22	4230.06	7.13	1.27	4229.99	503962.49	804066.18	
12394.00	92.69	355.80	8407.77	4324.72	-0.12	1.33	4324.68	504057.15	804058.93	
12488.00	93.26	355.56	8402.89	4418.33	-7.20	0.66	4418.31	504150.76	804051.85	
12535.00	93.48	355.82	8400.13	4465.11	-10.72	0.72	4465.12	504197.54	804048.33	Last Wft Svy
12600.00	93.48	355.82	8396.18	4529.82	-15.45	0.00	4529.84	504262.25	804043.60	Proj. To Bit

Annotation

MD ft	TVD ft	
7736.00	7720.70	Tie On VES
7853.00	7837.62	First Wft Svy
12535.00	8400.13	Last Wft Svy
12600.00	8396.18	Proj. To Bit

devon

Gaucho 21 Federal #2H
Lea County, New Mexico

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	8581.00	61.61	6.07	8444.73	529.09	271.19	0.00	0.00	527.86	
2	8753.73	91.19	355.63	8485.00	694.87	272.68	18.08	-20.45	693.62	
3	12601.48	91.19	355.63	8405.00	4530.59	-20.54	0.00	0.00	4530.64	PBHL

WELL DETAILS

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
Gaucho 21 Fed #2H	0.00	0.00	499732.43	804059.05	32°22'15.456N	103°28'56.592W	N/A

TARGET DETAILS

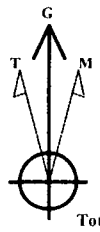
Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
PBHL	8405.00	4530.59	-20.54	504263.02	804038.51	Rectangle (3763x15)

SITE DETAILS

Gaucho 21 Federal #2H

Site Centre Northing: 499732.43
Easting: 804059.05

Ground Level: 3439.00
Positional Uncertainty: 0.00
Convergence: 0.46



Azimuths to Grid North
True North: -0.46°
Magnetic North: 6.97°

Magnetic Field
Strength: 48632nT
Dip Angle: 60.31°
Date: 7/15/2012
Model: IGRF2010

Total Correction to Grid North: 6.97°

LEGEND

Gaucho 21 Fed #2H,1,Gyro Svy
Gaucho 21 Fed #2H,1,Plan #4
Gaucho 21 Federal #1H (1)
1
Wft Svy

FIELD DETAILS

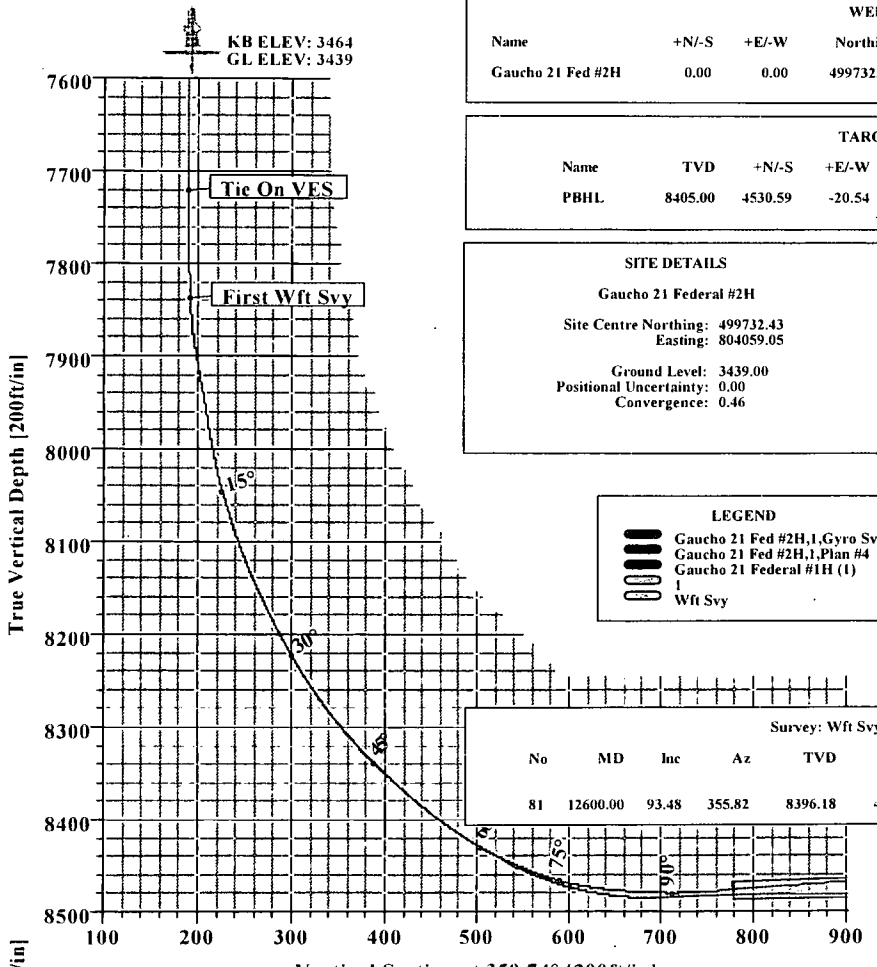
Lea County, New Mexico (NAD 83)

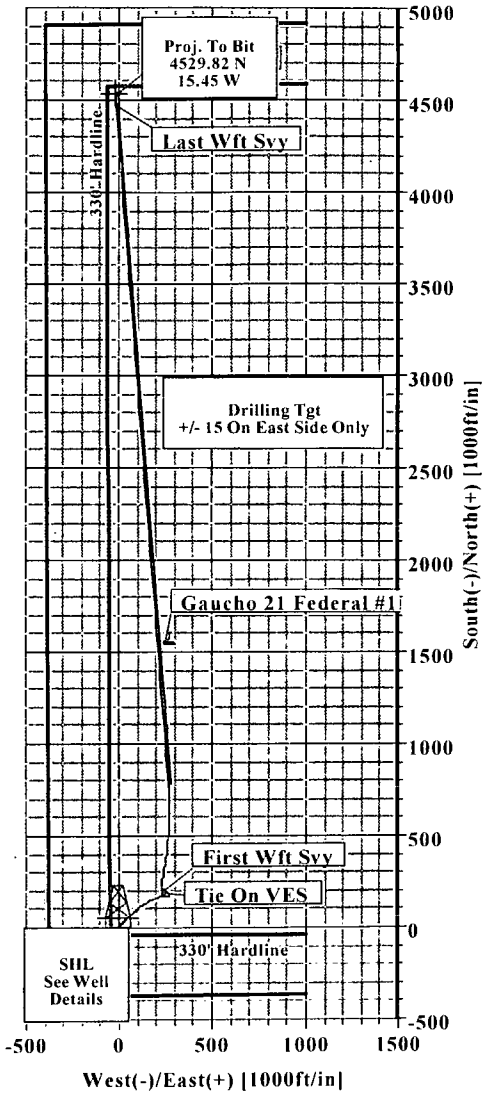
Geodetic System: US State Plane Coordinate System 1983
Ellipsoid: GRS 1980
Zone: New Mexico, Eastern Zone
Magnetic Model: IGRF2010

System Datum: Mean Sea Level
Local North: Grid North

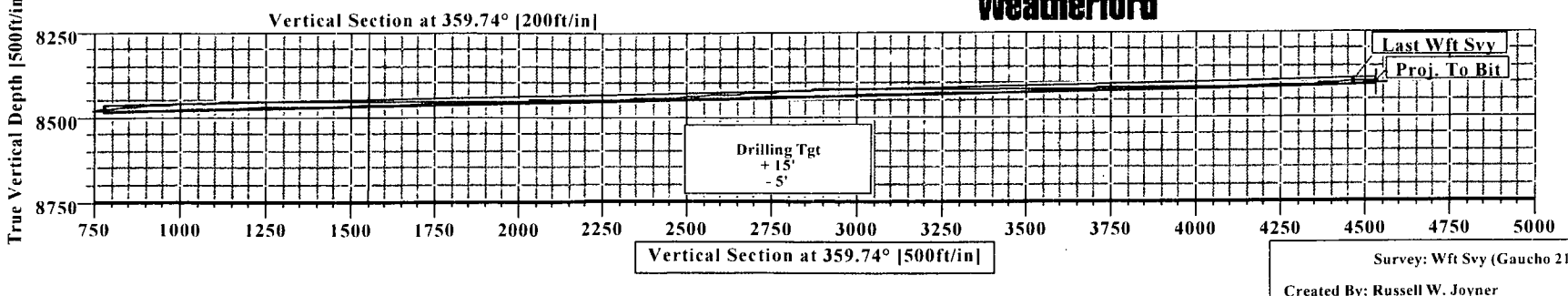
Survey: Wft Svy (Gaucho 21 Fed #2H/1)

No	MD	Inc	Az	TVD	+N/-S	+E/-W	DLeg	TFace	VSec
81	12600.00	93.48	355.82	8396.18	4529.82	-15.45	0.00	180.00	4529.84





Weatherford



Survey: Wft Svy (Gaucho 21 Fed #2H/1)

Created By: Russell W. Joyner Date: 8/2/2012