



November 18, 2014

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

30-025-41571

HOBBS OCD

APR 14 2015

RECEIVED

Attn: Spencer Stewart

Re: **Gaucha Unit 14H**

Please find enclosed a copy of the survey from 0.00' to 3172.00' 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

APR 22 2015



Company: Devon Energy
 Lease/Well: Gaucho Unit/14H
 Location: S20 T22S R34E
 Rig Name: Cactus 153
 State/County: New Mexico/Lea
 Latitude: 32.38, Longitude: -103.50
 GRID North is 0.45 Degrees East of True North
 VS-Azi: 179.66 Degrees



Depth Reference : RKB = 23 Feet

DRILLOG HA GYRO SURVEY CALCULATIONS

Filename: gyro survey.ut
 Minimum Curvature Method
 Report Date/Time: 11/17/2014 / 11:26

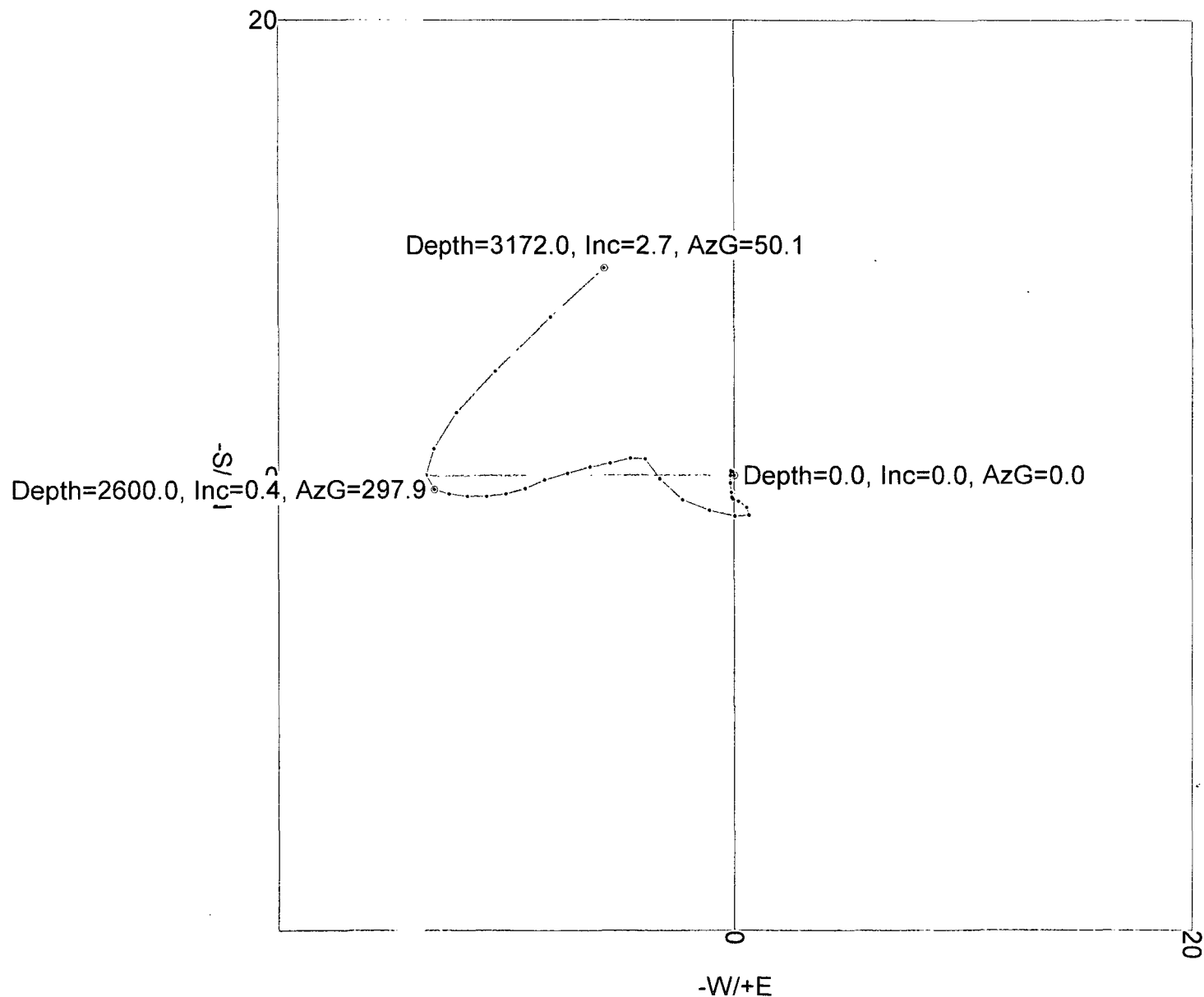
VES Survey International
 Midland, TX
 432-563-5444
 Surveyor: Andrew Askew
 Gaucho Unit 14H / API 30-025-41571

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	0.19	337.39	100.00	0.15	-0.06	-0.15	0.16	337.39	0.19
200.00	0.12	196.40	200.00	0.20	-0.16	-0.20	0.25	321.68	0.29
300.00	0.12	166.42	300.00	-0.01	-0.16	0.00	0.16	268.19	0.06
400.00	0.28	185.56	400.00	-0.34	-0.16	0.34	0.38	205.32	0.17
500.00	0.21	158.55	500.00	-0.75	-0.12	0.75	0.76	188.99	0.13
600.00	0.08	220.20	600.00	-0.97	-0.10	0.97	0.98	185.62	0.19
700.00	0.11	98.23	700.00	-1.04	-0.04	1.04	1.04	182.44	0.16
800.00	0.20	123.47	800.00	-1.15	0.19	1.15	1.16	170.42	0.11
900.00	0.32	127.62	900.00	-1.41	0.55	1.41	1.51	158.50	0.12
1000.00	0.24	212.81	1000.00	-1.75	0.66	1.76	1.87	159.33	0.38
1100.00	0.60	283.63	1099.99	-1.80	0.04	1.80	1.80	178.80	0.57
1200.00	0.72	283.77	1199.99	-1.53	-1.08	1.52	1.87	215.18	0.11
1300.00	0.74	298.25	1299.98	-1.08	-2.25	1.06	2.50	244.43	0.18
1400.00	0.86	325.24	1399.97	-0.15	-3.25	0.14	3.25	267.28	0.39
1500.00	0.38	321.81	1499.96	0.72	-3.88	-0.75	3.95	280.57	0.48
1600.00	0.56	242.08	1599.96	0.76	-4.52	-0.78	4.58	279.52	0.62
1700.00	0.50	270.57	1699.96	0.53	-5.38	-0.57	5.41	275.67	0.27
1800.00	0.54	249.81	1799.95	0.38	-6.26	-0.41	6.27	273.43	0.19

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	0.64	258.58	1899.95	0.10	-7.26	-0.14	7.26	270.80	0.14
2000.00	0.56	247.36	1999.94	-0.20	-8.26	0.15	8.26	268.63	0.14
2100.00	0.51	244.74	2099.94	-0.57	-9.10	0.52	9.12	266.40	0.06
2200.00	0.50	263.91	2199.93	-0.81	-9.94	0.75	9.97	265.35	0.17
2300.00	0.48	262.19	2299.93	-0.91	-10.79	0.85	10.83	265.17	0.03
2400.00	0.50	279.44	2399.93	-0.90	-11.64	0.83	11.67	265.59	0.15
2500.00	0.42	274.63	2499.92	-0.80	-12.43	0.72	12.46	266.33	0.09
2600.00	0.43	297.86	2599.92	-0.59	-13.12	0.52	13.14	267.41	0.17
2700.00	0.53	357.34	2699.92	0.04	-13.47	-0.12	13.47	270.17	0.48
2800.00	0.89	26.93	2799.91	1.19	-13.14	-1.27	13.20	275.16	0.50
2900.00	1.29	37.62	2899.89	2.77	-12.11	-2.84	12.42	282.86	0.45
3000.00	1.57	47.72	2999.86	4.57	-10.41	-4.64	11.37	293.71	0.38
3100.00	2.33	44.29	3099.80	6.95	-7.98	-7.00	10.58	311.05	0.78
3172.00	2.72	50.08	3171.73	9.10	-5.65	-9.13	10.71	328.17	0.65



VES Survey International
Midland, TX
432-563-5444
Surveyor: Andrew Askew
Gaucho Unit 14H / API 30-025-41571





December 9, 2014

HOBBSOCD

APR 14 2015

RECEIVED

Devon Energy
333 West Sheridan Ave
Oklahoma City, Oklahoma 73102-5010

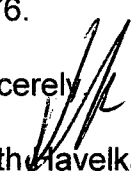
Attn: David Cook

Re: **Gaucha Unit 14H**

Please find enclosed a copy of the survey from 0.00' to 9760.00' ran on the above referenced well.

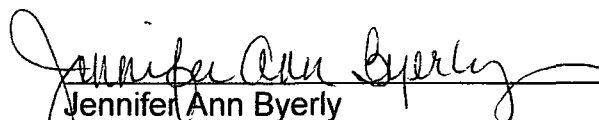
If I can be of any further service please do not hesitate to call me at 800-606-4976.

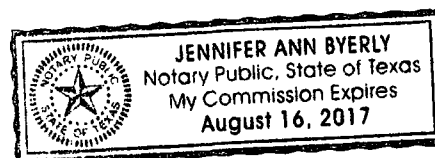
Sincerely,


Keith Havelka
Operations

STATE OF TEXAS §
 §
COUNTY OF NUECES §

This instrument was acknowledged before me on the 9 day of December, A.D., 2014, by Keith Havelka.


Jennifer Ann Byerly
Notary Public, State of Texas





Company: Devon Energy

Lease/Well: Gaucho Unit/14H

Rig Name: Cactus 153

State/County: New Mexico/Lea

Latitude: 32.38, Longitude: -103.50

GRID North is 0.45 Degrees East of True North

VS-Azi: 0.00 Degrees



Depth Reference : RKB = 23 feet

DRILLOG MS GYRO SURVEY CALCULATIONS

Filename: gyro survey.ut

Minimum Curvature Method

Report Date/Time: 12/9/2014 / 14:36

VES Survey International

Midland, Texas

432-563-5444

Surveyor: Adam Askew

Gaucho Unit 14H / API 30-025-41571

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	****
55.34	0.24	6.41	55.34	0.12	0.01	0.12	0.12	6.41	0.44
149.56	0.25	17.03	149.56	0.51	0.10	0.51	0.52	10.63	0.05
243.78	0.34	142.75	243.78	0.49	0.33	0.49	0.59	33.77	0.56
338.00	0.14	15.78	338.00	0.37	0.52	0.37	0.64	54.64	0.46
432.22	0.13	16.70	432.22	0.58	0.59	0.58	0.82	45.26	0.01
526.44	0.33	141.56	526.44	0.47	0.79	0.47	0.91	59.36	0.44
620.66	0.40	137.87	620.66	0.01	1.18	0.01	1.18	89.70	0.08
714.88	0.10	81.40	714.87	-0.23	1.48	-0.23	1.50	98.70	0.38
809.10	0.46	248.71	809.09	-0.35	1.21	-0.35	1.26	106.28	0.59
903.32	0.52	203.56	903.31	-0.88	0.68	-0.88	1.11	142.41	0.41
997.54	0.22	232.08	997.53	-1.39	0.37	-1.39	1.43	165.15	0.37
1091.76	0.30	235.74	1091.75	-1.63	0.02	-1.63	1.63	179.21	0.09
1185.98	0.68	310.22	1185.96	-1.41	-0.61	-1.41	1.54	203.31	0.71
1280.20	1.08	344.00	1280.17	-0.19	-1.28	-0.19	1.30	261.37	0.68
1374.42	0.97	297.09	1374.38	1.03	-2.24	1.03	2.46	294.63	0.88
1468.64	1.12	349.37	1468.59	2.30	-3.12	2.30	3.88	306.32	0.99
1562.86	0.50	326.07	1562.80	3.54	-3.52	3.54	4.99	315.14	0.73
1657.08	0.30	288.56	1657.01	3.95	-3.98	3.95	5.61	314.79	0.33

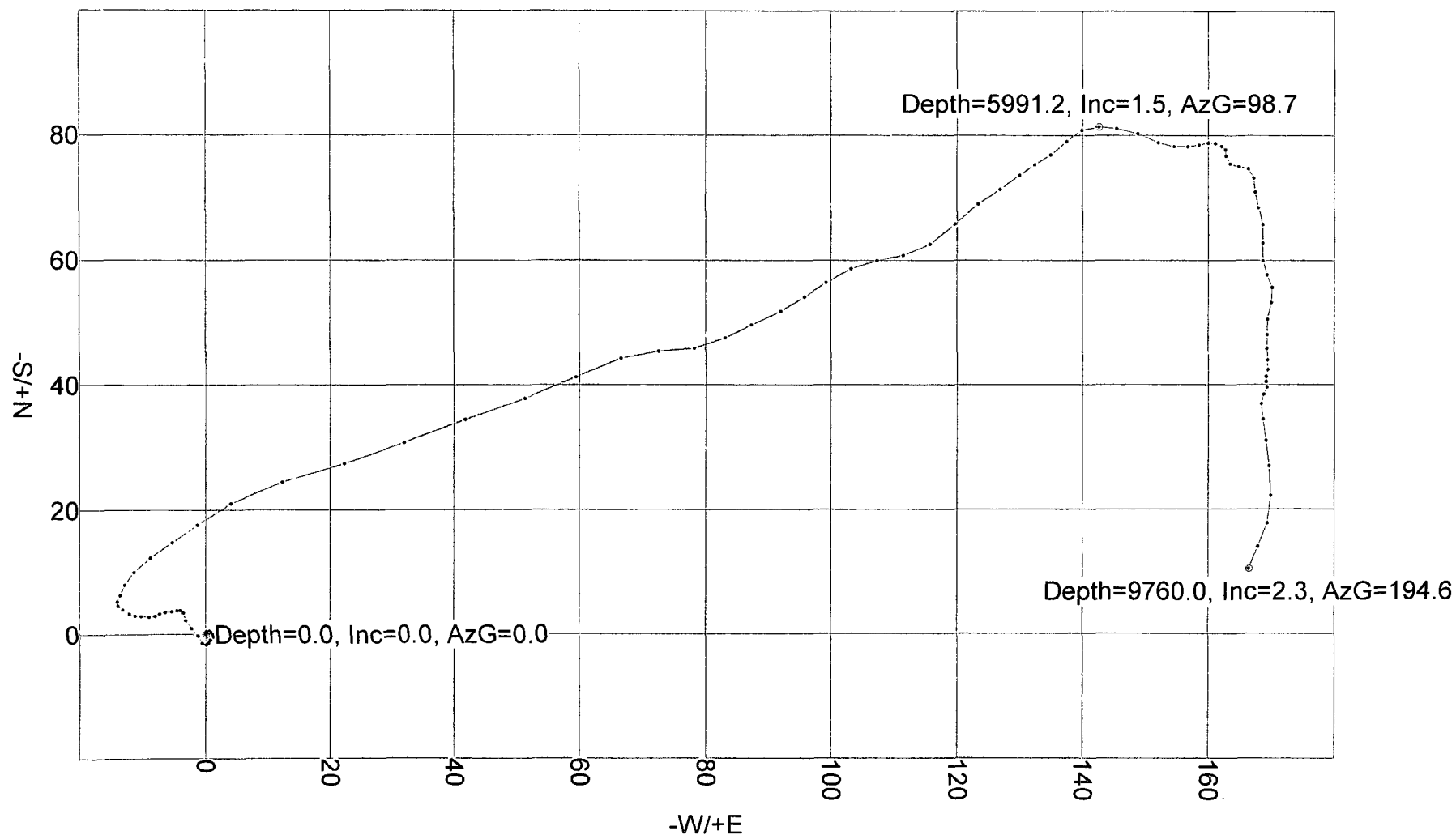
Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
1751.30	0.40	245.03	1751.23	3.89	-4.52	3.89	5.97	310.73	0.30
1845.52	0.66	268.19	1845.45	3.74	-5.37	3.74	6.54	304.83	0.35
1939.74	0.63	261.68	1939.66	3.64	-6.43	3.64	7.39	299.55	0.09
2033.96	0.51	240.82	2033.88	3.37	-7.31	3.37	8.05	294.73	0.25
2128.18	0.48	242.41	2128.09	2.98	-8.02	2.98	8.56	290.40	0.04
2222.40	0.76	275.42	2222.31	2.86	-8.99	2.86	9.43	287.65	0.47
2316.62	0.74	275.57	2316.52	2.98	-10.21	2.98	10.64	286.25	0.02
2410.84	0.45	274.41	2410.74	3.06	-11.18	3.06	11.59	285.32	0.30
2505.06	0.75	298.78	2504.95	3.39	-12.10	3.39	12.56	285.66	0.42
2599.28	0.75	304.90	2599.16	4.04	-13.14	4.04	13.75	287.09	0.09
2693.50	0.46	315.60	2693.38	4.66	-13.91	4.66	14.67	288.52	0.33
2787.72	0.53	19.99	2787.59	5.33	-14.02	5.33	15.00	290.83	0.56
2881.94	0.88	24.84	2881.81	6.40	-13.57	6.40	15.00	295.25	0.38
2976.16	1.31	22.11	2976.01	8.05	-12.86	8.05	15.17	302.06	0.46
3070.38	1.84	46.23	3070.20	10.10	-11.36	10.10	15.20	311.63	0.89
3164.60	2.37	50.21	3164.35	12.39	-8.78	12.39	15.18	324.68	0.58
3258.82	2.83	58.60	3258.47	14.85	-5.30	14.85	15.76	340.37	0.64
3353.04	3.06	51.17	3352.57	17.64	-1.35	17.64	17.69	355.62	0.47
3447.26	4.77	61.42	3446.57	21.09	4.05	21.09	21.47	10.87	1.95
3541.48	6.17	72.12	3540.36	24.52	12.31	24.52	27.43	26.66	1.83
3635.70	6.47	74.53	3634.01	27.49	22.25	27.49	35.36	38.99	0.43
3729.92	6.02	67.05	3727.67	30.83	31.92	30.83	44.37	45.99	0.99
3824.14	6.79	71.57	3821.30	34.52	41.75	34.52	54.17	50.42	0.98
3918.36	5.57	69.60	3914.97	37.87	51.32	37.87	63.78	53.57	1.31
4012.58	5.06	64.08	4008.79	41.28	59.35	41.28	72.29	55.18	0.77
4106.80	4.39	70.80	4102.69	44.29	66.49	44.29	79.89	56.33	0.93
4201.02	3.19	90.99	4196.70	45.43	72.52	45.43	85.57	57.94	1.88
4295.24	3.82	80.39	4290.75	45.91	78.23	45.91	90.70	59.60	0.95
4389.46	2.51	57.65	4384.82	47.53	83.06	47.53	95.70	60.22	1.90
4483.68	3.26	68.23	4478.93	49.63	87.29	49.63	100.42	60.38	0.98
4577.90	3.08	61.49	4573.00	51.83	92.01	51.83	105.60	60.61	0.44
4672.12	2.32	54.96	4667.12	54.14	95.79	54.14	110.03	60.53	0.86
4766.34	2.69	56.84	4761.25	56.44	99.21	56.44	114.14	60.36	0.40
4860.56	2.82	63.78	4855.36	58.68	103.14	58.68	118.67	60.36	0.38
4954.78	2.56	82.40	4949.47	59.98	107.31	59.98	122.94	60.80	0.96
5049.00	2.60	75.63	5043.60	60.79	111.47	60.79	126.97	61.39	0.33
5143.22	3.03	59.21	5137.71	62.60	115.68	62.60	131.53	61.58	0.97
5237.44	3.22	43.23	5231.79	65.81	119.64	65.81	136.54	61.19	0.94
5331.66	2.80	54.99	5325.88	69.06	123.34	69.06	141.36	60.76	0.79

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
5425.88	2.32	57.01	5420.00	71.41	126.82	71.41	145.54	60.62	0.52
5520.10	2.34	50.45	5514.15	73.67	129.90	73.67	149.34	60.44	0.28
5614.32	1.25	64.28	5608.32	75.34	132.31	75.34	152.26	60.34	1.23
5708.54	2.43	55.67	5702.49	76.92	134.89	76.92	155.28	60.31	1.28
5802.76	1.69	40.38	5796.65	79.11	137.44	79.11	158.58	60.08	0.97
5896.98	2.00	64.08	5890.82	80.89	139.82	80.89	161.53	59.95	0.87
5991.20	1.53	98.69	5985.00	81.41	142.55	81.41	164.16	60.27	1.21
6085.42	1.91	92.20	6079.18	81.16	145.36	81.16	166.49	60.82	0.45
6179.64	2.42	112.86	6173.33	80.33	148.76	80.33	169.06	61.63	0.98
6273.86	1.92	115.05	6267.48	78.89	152.02	78.89	171.27	62.57	0.54
6368.08	1.41	88.05	6361.66	78.27	154.60	78.27	173.28	63.15	0.98
6462.30	1.17	91.10	6455.86	78.29	156.72	78.29	175.19	63.46	0.26
6556.52	1.03	71.81	6550.06	78.53	158.48	78.53	176.87	63.64	0.42
6650.74	0.85	83.59	6644.27	78.87	159.98	78.87	178.36	63.76	0.28
6744.96	0.55	115.38	6738.48	78.76	161.08	78.76	179.30	63.94	0.51
6839.18	0.76	111.49	6832.70	78.33	162.07	78.33	180.00	64.20	0.23
6933.40	0.39	179.66	6926.91	77.79	162.65	77.79	180.29	64.44	0.76
7027.62	0.83	173.80	7021.13	76.78	162.73	76.78	179.93	64.74	0.48
7121.84	1.03	134.58	7115.34	75.51	163.40	75.51	180.01	65.20	0.69
7216.06	0.97	79.11	7209.54	75.07	164.78	75.07	181.08	65.51	0.99
7310.28	1.02	123.69	7303.75	74.75	166.26	74.75	182.29	65.79	0.80
7404.50	1.28	169.57	7397.95	73.25	167.15	73.25	182.50	66.34	0.99
7498.72	1.48	179.24	7492.15	70.99	167.36	70.99	181.80	67.01	0.33
7592.94	1.72	158.28	7586.33	68.46	167.90	68.46	181.32	67.82	0.66
7687.16	1.71	174.57	7680.51	65.75	168.56	65.75	180.92	68.69	0.52
7781.38	1.89	184.41	7774.68	62.80	168.57	62.80	179.89	69.57	0.38
7875.60	1.59	173.89	7868.86	59.96	168.59	59.96	178.93	70.42	0.46
7969.82	1.35	152.08	7963.05	57.67	169.25	57.67	178.80	71.18	0.64
8064.04	1.31	165.08	8057.24	55.65	170.05	55.65	178.92	71.88	0.32
8158.26	1.77	195.78	8151.43	53.20	169.93	53.20	178.06	72.62	0.99
8252.48	1.59	187.95	8245.61	50.51	169.35	50.51	176.72	73.39	0.32
8346.70	1.43	174.67	8339.80	48.05	169.28	48.05	175.97	74.15	0.40
8440.92	1.29	187.40	8433.99	45.82	169.25	45.82	175.34	74.85	0.35
8535.14	0.99	168.10	8528.19	43.96	169.28	43.96	174.90	75.44	0.51
8629.36	0.89	189.22	8622.40	42.45	169.34	42.45	174.57	75.93	0.38
8723.58	0.48	200.99	8716.61	41.35	169.08	41.35	174.06	76.26	0.45
8817.80	0.57	161.12	8810.83	40.54	169.09	40.54	173.88	76.52	0.39
8912.02	0.60	183.52	8905.05	39.60	169.21	39.60	173.78	76.83	0.24
9006.24	0.93	216.80	8999.26	38.50	168.72	38.50	173.05	77.15	0.58

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
9100.46	1.07	176.59	9093.46	37.00	168.31	37.00	172.33	77.60	0.75
9194.68	2.00	171.64	9187.65	34.49	168.60	34.49	172.09	78.44	0.99
9288.90	2.18	172.94	9281.81	31.09	169.06	31.09	171.90	79.58	0.20
9383.12	2.84	172.57	9375.94	27.00	169.58	27.00	171.72	80.96	0.71
9477.34	2.98	181.02	9470.03	22.23	169.84	22.23	171.29	82.54	0.48
9571.56	2.53	195.22	9564.15	17.78	169.25	17.78	170.18	84.00	0.86
9665.78	2.42	208.55	9658.28	14.02	167.75	14.02	168.34	85.22	0.62
9760.00	2.29	194.55	9752.42	10.44	166.33	10.44	166.66	86.41	0.62



VES Survey International
Midland, Texas
432-563-5444
Surveyor: Adam Askew
Gaucho Unit 14H / API 30-025-41571





GAUCHO UNIT 14H

DELAWARE BASIN UNRESTRICTED

Directional Survey

Sub-Division DELAWARE BASIN	County LEA	Field Name OJO CHISO	Region DELAWARE BASIN EAST	State/Province NM
Surface Legal Location SEC. 20 T22S R34E	API/UWI 3002541571	Latitude (°) 32° 23' 2.539" N	Longitude (°) 103° 29' 54.548" W	Ground Elev M... 3,471.20
				Orig KB Elev (ft) 3,494.20
				Tubing Head Elevation (ft)

Wellbores

Wellbore Name OH	Parent Wellbore	SAP Well ID 37146	Vertical Section Direction (°) 179.66
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Kick Offs & Key Depths

Date	Type	Top Depth (ftKB)
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Actual Deviation Survey	Definitive?	Proposed?	Proposed Deviation Survey
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Deviation Survey

Date	Description
------	-------------

MD Tie In (ftKB)	TVD Tie In (ftKB)	Inclination Tie In (°)	Azimuth Tie In (°)	NS Tie In (ft)	EW Tie In (ft)
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Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	N/S (ft)	E/W (ft)	DLS (°/100ft)	Survey Tool	Survey Company
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Wellbore Name ST01	Parent Wellbore OH	SAP Well ID	Vertical Section Direction (°) 179.66
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Kick Offs & Key Depths

Date 11/6/2014	Type Kick Off	Top Depth (ftKB) 3,525.0
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Actual Deviation Survey ACTUAL ST01, Proposed? No	Definitive? No	Proposed? No	Proposed Deviation Survey
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Deviation Survey

Date 11/14/2014	Description ACTUAL ST01
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MD Tie In (ftKB)	TVD Tie In (ftKB)	Inclination Tie In (°)	Azimuth Tie In (°)	NS Tie In (ft)	EW Tie In (ft)
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Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	N/S (ft)	E/W (ft)	DLS (°/100ft)	Survey Tool	Survey Company
11/14/2...	0.00	0.00	0.00	0.00	0.00	0.00	0.00		GYRO	VAUHG ENERGY SERVICES
11/14/2...	55.34	0.24	6.41	55.34	-0.12	0.12	0.01	0.43	GYRO	VAUHG ENERGY SERVICES
11/14/2...	149.56	0.25	17.03	149.56	-0.51	0.51	0.10	0.05	GYRO	VAUHG ENERGY SERVICES
11/14/2...	243.78	0.34	142.75	243.78	-0.48	0.48	0.32	0.56	GYRO	VAUHG ENERGY SERVICES
11/14/2...	338.00	0.14	15.78	338.00	-0.37	0.37	0.53	0.47	GYRO	VAUHG ENERGY SERVICES
11/14/2...	432.22	0.13	16.70	432.22	-0.58	0.58	0.59	0.01	GYRO	VAUHG ENERGY SERVICES
11/14/2...	526.44	0.33	141.56	526.44	-0.47	0.47	0.79	0.44	GYRO	VAUHG ENERGY SERVICES
11/14/2...	620.66	0.40	137.87	620.66	-0.01	0.02	1.18	0.08	GYRO	VAUHG ENERGY SERVICES
11/14/2...	714.88	0.10	81.40	714.87	0.22	-0.21	1.48	0.38	GYRO	VAUHG ENERGY SERVICES
11/14/2...	809.10	0.46	248.71	809.09	0.35	-0.34	1.21	0.59	GYRO	VAUHG ENERGY SERVICES
11/14/2...	903.32	0.52	203.56	903.31	0.87	-0.87	0.68	0.40	GYRO	VAUHG ENERGY SERVICES
11/14/2...	997.54	0.22	232.08	997.53	1.37	-1.37	0.37	0.36	GYRO	VAUHG ENERGY SERVICES
11/14/2...	1,091.76	0.30	235.74	1,091.75	1.62	-1.62	0.02	0.09	GYRO	VAUHG ENERGY SERVICES
11/14/2...	1,185.98	0.68	310.22	1,185.96	1.40	-1.40	-0.61	0.71	GYRO	VAUHG ENERGY SERVICES
11/14/2...	1,280.20	1.08	344.00	1,280.17	0.18	-0.19	-1.28	0.68	GYRO	VAUHG ENERGY SERVICES
11/14/2...	1,374.42	0.97	297.09	1,374.38	-1.04	1.03	-2.23	0.87	GYRO	VAUHG ENERGY SERVICES
11/14/2...	1,468.64	1.12	349.37	1,468.59	-2.32	2.30	-3.11	0.99	GYRO	VAUHG ENERGY SERVICES
11/14/2...	1,562.86	0.50	326.07	1,562.80	-3.57	3.55	-3.51	0.73	GYRO	VAUHG ENERGY SERVICES
11/14/2...	1,657.08	0.30	288.56	1,657.01	-3.99	3.97	-3.98	0.34	GYRO	VAUHG ENERGY SERVICES
11/14/2...	1,751.30	0.40	245.03	1,751.23	-3.93	3.90	-4.51	0.29	GYRO	VAUHG ENERGY SERVICES
11/14/2...	1,845.52	0.66	268.19	1,845.45	-3.78	3.75	-5.35	0.35	GYRO	VAUHG ENERGY SERVICES
11/14/2...	1,939.74	0.63	261.68	1,939.66	-3.69	3.66	-6.40	0.08	GYRO	VAUHG ENERGY SERVICES
11/14/2...	2,033.96	0.51	240.82	2,033.88	-3.42	3.38	-7.28	0.25	GYRO	VAUHG ENERGY SERVICES
11/14/2...	2,128.18	0.48	242.41	2,128.10	-3.04	2.99	-8.00	0.04	GYRO	VAUHG ENERGY SERVICES
11/14/2...	2,222.40	0.76	275.42	2,222.31	-2.92	2.87	-8.97	0.47	GYRO	VAUHG ENERGY SERVICES
11/14/2...	2,316.62	0.74	275.57	2,316.52	-3.04	2.98	-10.20	0.02	GYRO	VAUHG ENERGY SERVICES
11/14/2...	2,410.84	0.45	274.41	2,410.74	-3.14	3.07	-11.17	0.31	GYRO	VAUHG ENERGY SERVICES
11/14/2...	2,505.06	0.75	298.78	2,504.95	-3.47	3.40	-12.08	0.41	GYRO	VAUHG ENERGY SERVICES
11/14/2...	2,599.28	0.75	304.90	2,599.16	-4.12	4.05	-13.13	0.08	GYRO	VAUHG ENERGY SERVICES
11/14/2...	2,693.50	0.46	315.60	2,693.38	-4.75	4.67	-13.90	0.33	GYRO	VAUHG ENERGY SERVICES
11/14/2...	2,787.72	0.53	19.99	2,787.60	-5.43	5.35	-14.01	0.56	GYRO	VAUHG ENERGY SERVICES
11/14/2...	2,881.94	0.88	24.84	2,881.81	-6.50	6.42	-13.56	0.38	GYRO	VAUHG ENERGY SERVICES

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Directional Survey

Sub-Division DELAWARE BASIN	County LEA	Field Name OJO CHISO	Region DELAWARE BASIN EAST	State/Province NM
Surface Legal Location SEC. 20 T22S R34E	API/UWI 3002541571	Latitude (") 32° 23' 2.539" N	Longitude (") 103° 29' 54.548" W	Ground Elev M... 3,471.20
				Orig KB Elev (ft) 3,494.20
				Tubing Head Elevation (ft)

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	N/S (ft)	E/W (ft)	DLS (°/100ft)	Survey Tool	Survey Company
11/14/2...	2,976.16	1.31	22.11	2,976.01	-8.15	8.07	-12.85	0.46	GYRO	VAUHG N ENERGY SERVICES
11/14/2...	3,070.38	1.84	46.23	3,070.20	-10.18	10.11	-11.35	0.89	GYRO	VAUHG N ENERGY SERVICES
11/14/2...	3,164.60	2.37	50.21	3,164.35	-12.46	12.41	-8.77	0.58	GYRO	VAUHG N ENERGY SERVICES
11/14/2...	3,258.82	2.83	58.60	3,258.47	-14.90	14.87	-5.28	0.63	GYRO	VAUHG N ENERGY SERVICES
11/14/2...	3,353.04	3.06	51.17	3,352.57	-17.66	17.66	-1.34	0.47	GYRO	VAUHG N ENERGY SERVICES
11/14/2...	3,447.26	4.77	61.42	3,446.57	-21.08	21.11	4.06	1.95	GYRO	VAUHG N ENERGY SERVICES
11/14/2...	3,541.48	6.17	72.12	3,540.36	-24.46	24.54	12.32	1.83	GYRO	VAUHG N ENERGY SERVICES
11/14/2...	3,635.70	6.47	74.53	3,634.01	-27.37	27.51	22.26	0.42	GYRO	VAUHG N ENERGY SERVICES
11/14/2...	3,729.92	6.02	67.05	3,727.67	-30.66	30.85	31.92	0.99	GYRO	VAUHG N ENERGY SERVICES
11/14/2...	3,824.14	6.79	71.57	3,821.30	-34.29	34.54	41.76	0.98	GYRO	VAUHG N ENERGY SERVICES
11/14/2...	3,918.36	5.57	69.60	3,914.97	-37.59	37.89	51.33	1.31	GYRO	VAUHG N ENERGY SERVICES
11/14/2...	4,012.58	5.06	64.08	4,008.79	-40.95	41.30	59.35	0.77	GYRO	VAUHG N ENERGY SERVICES
11/14/2...	4,106.80	4.39	70.80	4,102.69	-43.91	44.30	66.49	0.92	GYRO	VAUHG N ENERGY SERVICES
11/14/2...	4,201.02	3.19	90.99	4,196.70	-45.01	45.44	72.52	1.89	GYRO	VAUHG N ENERGY SERVICES
11/14/2...	4,295.24	3.82	80.39	4,290.75	-45.46	45.92	78.23	0.96	GYRO	VAUHG N ENERGY SERVICES
11/14/2...	4,389.46	2.51	57.65	4,384.83	-47.06	47.55	83.07	1.90	GYRO	VAUHG N ENERGY SERVICES
11/14/2...	4,483.68	3.26	68.23	4,478.93	-49.13	49.65	87.30	0.97	GYRO	VAUHG N ENERGY SERVICES
11/14/2...	4,577.90	3.08	61.49	4,573.00	-51.30	51.85	92.02	0.44	GYRO	VAUHG N ENERGY SERVICES
11/14/2...	4,672.12	2.32	54.96	4,667.12	-53.58	54.15	95.80	0.87	GYRO	VAUHG N ENERGY SERVICES
11/14/2...	4,766.34	2.69	56.84	4,761.25	-55.87	56.46	99.21	0.40	GYRO	VAUHG N ENERGY SERVICES
11/14/2...	4,860.56	2.82	63.78	4,855.36	-58.08	58.69	103.14	0.38	GYRO	VAUHG N ENERGY SERVICES
11/14/2...	4,954.78	2.56	82.40	4,949.48	-59.36	59.99	107.31	0.96	GYRO	VAUHG N ENERGY SERVICES
11/14/2...	5,049.00	2.60	75.63	5,043.60	-60.14	60.80	111.46	0.33	GYRO	VAUHG N ENERGY SERVICES
11/14/2...	5,143.22	3.03	59.21	5,137.71	-61.92	62.61	115.67	0.97	GYRO	VAUHG N ENERGY SERVICES
11/14/2...	5,237.44	3.22	43.23	5,231.79	-65.10	65.81	119.63	0.94	GYRO	VAUHG N ENERGY SERVICES
11/14/2...	5,331.66	2.80	54.99	5,325.88	-68.32	69.06	123.32	0.79	GYRO	VAUHG N ENERGY SERVICES
11/14/2...	5,425.88	2.32	57.01	5,420.01	-70.66	71.42	126.81	0.52	GYRO	VAUHG N ENERGY SERVICES
11/14/2...	5,520.10	2.34	50.45	5,514.15	-72.91	73.68	129.89	0.28	GYRO	VAUHG N ENERGY SERVICES
11/14/2...	5,614.32	1.25	64.28	5,608.32	-74.56	75.35	132.30	1.24	GYRO	VAUHG N ENERGY SERVICES
11/14/2...	5,708.54	2.43	55.67	5,702.49	-76.12	76.92	134.88	1.28	GYRO	VAUHG N ENERGY SERVICES
11/14/2...	5,802.76	1.69	40.38	5,796.65	-78.29	79.11	137.42	0.97	GYRO	VAUHG N ENERGY SERVICES
11/14/2...	5,896.98	2.00	64.08	5,890.82	-80.05	80.88	139.80	0.87	GYRO	VAUHG N ENERGY SERVICES
11/14/2...	5,991.20	1.53	98.69	5,985.00	-80.57	81.41	142.53	1.21	GYRO	VAUHG N ENERGY SERVICES
11/14/2...	6,085.42	1.91	92.20	6,079.18	-80.30	81.16	145.34	0.45	GYRO	VAUHG N ENERGY SERVICES
11/14/2...	6,179.64	2.42	112.86	6,173.33	-79.45	80.33	148.74	0.98	GYRO	VAUHG N ENERGY SERVICES
11/14/2...	6,273.86	1.92	115.05	6,267.48	-77.99	78.89	152.00	0.54	GYRO	VAUHG N ENERGY SERVICES
11/14/2...	6,368.08	1.41	88.05	6,361.67	-77.34	78.26	154.59	0.98	GYRO	VAUHG N ENERGY SERVICES
11/14/2...	6,462.30	1.17	91.10	6,455.86	-77.35	78.28	156.71	0.26	GYRO	VAUHG N ENERGY SERVICES
11/14/2...	6,556.52	1.03	71.81	6,550.06	-77.59	78.53	158.48	0.42	GYRO	VAUHG N ENERGY SERVICES
11/14/2...	6,650.74	0.85	83.59	6,644.27	-77.92	78.87	159.98	0.28	GYRO	VAUHG N ENERGY SERVICES
11/14/2...	6,744.96	0.55	115.38	6,738.48	-77.80	78.75	161.08	0.51	GYRO	VAUHG N ENERGY SERVICES
11/14/2...	6,839.18	0.76	111.49	6,832.70	-77.37	78.33	162.07	0.23	GYRO	VAUHG N ENERGY SERVICES
11/14/2...	6,933.40	0.39	179.66	6,926.91	-76.81	77.78	162.65	0.76	GYRO	VAUHG N ENERGY SERVICES
11/14/2...	7,027.62	0.83	173.80	7,021.13	-75.82	76.78	162.73	0.47	GYRO	VAUHG N ENERGY SERVICES
11/14/2...	7,121.84	1.03	134.58	7,115.34	-74.54	75.51	163.41	0.69	GYRO	VAUHG N ENERGY SERVICES
11/14/2...	7,216.06	0.97	79.11	7,209.55	-74.09	75.07	164.79	0.99	GYRO	VAUHG N ENERGY SERVICES
11/14/2...	7,310.28	1.02	123.69	7,303.75	-73.76	74.75	166.27	0.80	GYRO	VAUHG N ENERGY SERVICES
11/14/2...	7,404.50	1.28	169.57	7,397.96	-72.26	73.25	167.16	0.98	GYRO	VAUHG N ENERGY SERVICES
11/14/2...	7,498.72	1.48	179.24	7,492.15	-70.00	71.00	167.37	0.33	GYRO	VAUHG N ENERGY SERVICES
11/14/2...	7,592.94	1.72	158.28	7,586.33	-67.47	68.47	167.91	0.67	GYRO	VAUHG N ENERGY SERVICES
11/14/2...	7,687.16	1.71	174.57	7,680.51	-64.75	65.76	168.56	0.52	GYRO	VAUHG N ENERGY SERVICES
11/14/2...	7,781.38	1.89	184.41	7,774.68	-61.81	62.81	168.58	0.38	GYRO	VAUHG N ENERGY SERVICES
11/14/2...	7,875.60	1.59	173.89	7,868.86	-58.96	59.96	168.60	0.46	GYRO	VAUHG N ENERGY SERVICES
11/14/2...	7,969.82	1.35	152.08	7,963.05	-56.67	57.68	169.26	0.64	GYRO	VAUHG N ENERGY SERVICES
11/14/2...	8,064.04	1.31	165.08	8,057.25	-54.65	55.66	170.05	0.32	GYRO	VAUHG N ENERGY SERVICES



GAUCHO UNIT 14H

DELAWARE BASIN UNRESTRICTED

Directional Survey

Sub-Division DELAWARE BASIN	County LEA	Field Name OJO CHISO	Region DELAWARE BASIN EAST	State/Province NM
Surface Legal Location SEC. 20 T2S R34E	API/UWI 3002541571	Latitude (") 32° 23' 2.539" N	Longitude (") 103° 29' 54.548" W	Ground Elev. M... 3,471.20
				Orig KB Elev (ft) 3,494.20
				Tubing Head Elevation (ft)

Survey Data

Date	MD (ftKB)	Incl (")	Azm (")	TVD (ftKB)	VS (ft)	N/S (ft)	E/W (ft)	DLS ("/100ft)	Survey Tool	Survey Company
11/14/2...	8,158.26	1.77	195.78	8,151.43	-52.21	53.22	169.93	0.99	GYRO	VAUHG N ENERGY SERVICES
11/14/2...	8,252.48	1.59	187.95	8,245.61	-49.51	50.52	169.36	0.31	GYRO	VAUHG N ENERGY SERVICES
11/14/2...	8,346.70	1.43	174.67	8,339.80	-47.05	48.06	169.29	0.41	GYRO	VAUHG N ENERGY SERVICES
11/14/2...	8,440.92	1.29	187.40	8,433.99	-44.83	45.83	169.26	0.35	GYRO	VAUHG N ENERGY SERVICES
11/14/2...	8,535.14	0.99	168.10	8,528.19	-42.98	43.98	169.29	0.51	GYRO	VAUHG N ENERGY SERVICES
11/14/2...	8,629.36	0.89	189.22	8,622.40	-41.46	42.47	169.34	0.38	GYRO	VAUHG N ENERGY SERVICES
11/14/2...	8,723.58	0.48	200.99	8,716.62	-40.37	41.38	169.08	0.46	GYRO	VAUHG N ENERGY SERVICES
11/14/2...	8,817.80	0.57	161.12	8,810.83	-39.56	40.56	169.09	0.39	GYRO	VAUHG N ENERGY SERVICES
11/14/2...	8,912.02	0.60	183.52	8,905.05	-38.62	39.63	169.21	0.24	GYRO	VAUHG N ENERGY SERVICES
11/14/2...	9,006.24	0.93	216.80	8,999.26	-37.52	38.52	168.73	0.57	GYRO	VAUHG N ENERGY SERVICES
11/14/2...	9,100.46	1.07	176.59	9,093.47	-36.03	37.03	168.32	0.74	GYRO	VAUHG N ENERGY SERVICES
11/14/2...	9,194.68	2.00	171.64	9,187.65	-33.53	34.53	168.61	1.00	GYRO	VAUHG N ENERGY SERVICES
11/14/2...	9,288.90	2.18	172.94	9,281.81	-30.12	31.12	169.07	0.20	GYRO	VAUHG N ENERGY SERVICES
11/14/2...	9,383.12	2.84	172.57	9,375.94	-26.02	27.03	169.59	0.70	GYRO	VAUHG N ENERGY SERVICES
11/14/2...	9,477.34	2.98	181.02	9,470.04	-21.26	22.27	169.85	0.48	GYRO	VAUHG N ENERGY SERVICES
11/14/2...	9,571.56	2.53	195.22	9,564.15	-16.81	17.81	169.26	0.86	GYRO	VAUHG N ENERGY SERVICES
11/14/2...	9,665.78	2.42	208.55	9,658.28	-13.06	14.06	167.77	0.62	GYRO	VAUHG N ENERGY SERVICES
11/14/2...	9,760.00	2.29	194.55	9,752.42	-9.50	10.49	166.34	0.62	GYRO	VAUHG N ENERGY SERVICES
11/14/2...	9,880.00	4.10	174.00	9,872.23	-2.91	3.90	166.19	1.76	MWD	LEAM DRILLING SYSTEMS
11/14/2...	9,911.00	7.90	181.10	9,903.06	0.32	0.67	166.26	12.47	MWD	LEAM DRILLING SYSTEMS
11/14/2...	9,942.00	12.20	185.50	9,933.58	5.71	-4.73	165.91	14.08	MWD	LEAM DRILLING SYSTEMS
11/14/2...	9,974.00	15.70	188.60	9,964.63	13.35	-12.38	164.94	11.18	MWD	LEAM DRILLING SYSTEMS
11/14/2...	10,006.00	19.30	188.60	9,995.14	22.86	-21.89	163.50	11.25	MWD	LEAM DRILLING SYSTEMS
11/14/2...	10,037.00	23.90	190.60	10,023.96	34.09	-33.13	161.57	15.03	MWD	LEAM DRILLING SYSTEMS
11/14/2...	10,069.00	29.60	190.20	10,052.52	48.24	-47.29	158.98	17.82	MWD	LEAM DRILLING SYSTEMS
11/14/2...	10,100.00	34.60	188.60	10,078.77	64.47	-63.54	156.31	16.36	MWD	LEAM DRILLING SYSTEMS
11/14/2...	10,132.00	37.10	186.50	10,104.71	83.03	-82.12	153.86	8.71	MWD	LEAM DRILLING SYSTEMS
11/14/2...	10,163.00	38.80	184.60	10,129.16	101.99	-101.09	152.02	6.65	MWD	LEAM DRILLING SYSTEMS
11/14/2...	10,194.00	40.80	183.50	10,152.97	121.78	-120.88	150.62	6.84	MWD	LEAM DRILLING SYSTEMS
11/14/2...	10,226.00	42.70	182.50	10,176.85	143.05	-142.16	149.51	6.29	MWD	LEAM DRILLING SYSTEMS
11/14/2...	10,257.00	45.10	181.80	10,199.18	164.52	-163.64	148.71	7.90	MWD	LEAM DRILLING SYSTEMS
11/14/2...	10,289.00	46.60	180.70	10,221.47	187.47	-186.59	148.21	5.30	MWD	LEAM DRILLING SYSTEMS
11/14/2...	10,320.00	48.60	180.20	10,242.37	210.36	-209.48	148.03	6.56	MWD	LEAM DRILLING SYSTEMS
11/14/2...	10,351.00	50.80	179.70	10,262.42	234.00	-233.13	148.05	7.20	MWD	LEAM DRILLING SYSTEMS
11/14/2...	10,383.00	53.70	179.80	10,282.01	259.30	-258.42	148.16	9.07	MWD	LEAM DRILLING SYSTEMS
11/14/2...	10,414.00	56.50	180.00	10,299.75	284.72	-283.85	148.20	9.05	MWD	LEAM DRILLING SYSTEMS
11/14/2...	10,446.00	58.20	180.50	10,317.01	311.66	-310.79	148.09	5.47	MWD	LEAM DRILLING SYSTEMS
11/14/2...	10,478.00	58.90	180.50	10,333.70	338.96	-338.09	147.85	2.19	MWD	LEAM DRILLING SYSTEMS
11/14/2...	10,510.00	60.50	179.80	10,349.85	366.58	-365.71	147.78	5.34	MWD	LEAM DRILLING SYSTEMS
11/14/2...	10,541.00	63.40	180.20	10,364.43	393.94	-393.07	147.78	9.42	MWD	LEAM DRILLING SYSTEMS
11/14/2...	10,572.00	65.60	180.40	10,377.77	421.92	-421.05	147.63	7.12	MWD	LEAM DRILLING SYSTEMS
11/14/2...	10,604.00	67.10	180.50	10,390.61	451.22	-450.36	147.40	4.70	MWD	LEAM DRILLING SYSTEMS
11/14/2...	10,626.00	68.10	179.80	10,398.99	471.56	-470.70	147.35	5.41	MWD	LEAM DRILLING SYSTEMS
11/14/2...	10,657.00	71.10	179.80	10,409.79	500.62	-499.75	147.45	9.68	MWD	LEAM DRILLING SYSTEMS
11/14/2...	10,689.00	72.40	179.30	10,419.82	531.01	-530.14	147.69	4.33	MWD	LEAM DRILLING SYSTEMS
11/14/2...	10,720.00	73.50	179.30	10,428.91	560.64	-559.77	148.05	3.55	MWD	LEAM DRILLING SYSTEMS
11/14/2...	10,752.00	76.20	178.90	10,437.27	591.53	-590.65	148.53	8.52	MWD	LEAM DRILLING SYSTEMS
11/14/2...	10,783.00	80.50	178.90	10,443.53	621.88	-621.00	149.12	13.87	MWD	LEAM DRILLING SYSTEMS
11/14/2...	10,815.00	85.30	179.70	10,447.48	653.62	-652.75	149.50	15.20	MWD	LEAM DRILLING SYSTEMS
11/14/2...	10,846.00	89.00	181.60	10,449.02	684.57	-683.70	149.15	13.41	MWD	LEAM DRILLING SYSTEMS
11/14/2...	10,878.00	90.30	182.30	10,449.22	716.54	-715.68	148.06	4.61	MWD	LEAM DRILLING SYSTEMS
11/14/2...	10,909.00	90.40	181.90	10,449.03	747.52	-746.66	146.93	1.33	MWD	LEAM DRILLING SYSTEMS
11/14/2...	11,004.00	90.30	183.00	10,448.45	842.40	-841.57	142.87	1.16	MWD	LEAM DRILLING SYSTEMS
11/14/2...	11,099.00	89.90	183.00	10,448.28	937.24	-936.44	137.89	0.42	MWD	LEAM DRILLING SYSTEMS
11/14/2...	11,193.00	89.60	182.60	10,448.69	1,031.10	-1,030.32	133.30	0.53	MWD	LEAM DRILLING SYSTEMS



GAUCHO UNIT 14H

DELAWARE BASIN UNRESTRICTED

Directional Survey

Sub-Division DELAWARE BASIN	County LEA	Field Name OJO CHISO	Region DELAWARE BASIN EAST	State/Province NM
Surface Legal Location SEC. 20 T22S R34E	API/UWI 3002541571	Latitude (°) 32° 23' 2.539" N	Longitude (°) 103° 29' 54.548" W	Ground Elev M. 3,471.20
				Orig KB Elev (ft) 3,494.20
				Tubing Head Elevation (ft)

Survey Data

Date	MD (ftKB)	Incl. (°)	Azm. (°)	TVD (ftKB)	VS (ft)	N/S (ft)	EW (ft)	DLS (%/100ft)	Survey Tool	Survey Company
11/14/2...	11,287.00	89.10	182.60	10,449.76	1,124.97	-1,124.22	129.04	0.53	MWD	LEAM DRILLING SYSTEMS
11/14/2...	11,381.00	90.00	183.50	10,450.50	1,218.80	-1,218.08	124.04	1.35	MWD	LEAM DRILLING SYSTEMS
11/14/2...	11,475.00	90.30	181.90	10,450.25	1,312.66	-1,311.97	119.61	1.73	MWD	LEAM DRILLING SYSTEMS
11/14/2...	11,570.00	90.80	181.20	10,449.34	1,407.60	-1,406.93	117.04	0.91	MWD	LEAM DRILLING SYSTEMS
11/14/2...	11,665.00	91.00	181.90	10,447.85	1,502.54	-1,501.89	114.47	0.77	MWD	LEAM DRILLING SYSTEMS
11/14/2...	11,760.00	90.70	182.10	10,446.44	1,597.45	-1,596.82	111.16	0.38	MWD	LEAM DRILLING SYSTEMS
11/14/2...	11,855.00	90.90	182.10	10,445.11	1,692.35	-1,691.75	107.67	0.21	MWD	LEAM DRILLING SYSTEMS
11/14/2...	11,950.00	92.10	184.00	10,442.62	1,787.15	-1,786.57	102.62	2.36	MWD	LEAM DRILLING SYSTEMS
11/14/2...	12,045.00	90.60	183.30	10,440.38	1,881.89	-1,881.35	96.58	1.74	MWD	LEAM DRILLING SYSTEMS
11/14/2...	12,139.00	90.10	182.30	10,439.81	1,975.75	-1,975.23	91.98	1.19	MWD	LEAM DRILLING SYSTEMS
11/14/2...	12,233.00	91.30	181.20	10,438.66	2,069.67	-2,069.18	89.11	1.73	MWD	LEAM DRILLING SYSTEMS
11/14/2...	12,329.00	91.40	179.70	10,436.40	2,165.63	-2,165.15	88.36	1.57	MWD	LEAM DRILLING SYSTEMS
11/14/2...	12,424.00	91.20	179.70	10,434.25	2,260.61	-2,260.12	88.86	0.21	MWD	LEAM DRILLING SYSTEMS
11/14/2...	12,519.00	91.50	179.50	10,432.01	2,355.58	-2,355.09	89.52	0.38	MWD	LEAM DRILLING SYSTEMS
11/14/2...	12,614.00	92.20	180.50	10,428.94	2,450.53	-2,450.04	89.52	1.28	MWD	LEAM DRILLING SYSTEMS
11/14/2...	12,709.00	92.40	181.20	10,425.13	2,545.43	-2,544.95	88.11	0.77	MWD	LEAM DRILLING SYSTEMS
11/14/2...	12,804.00	91.60	181.90	10,421.81	2,640.32	-2,639.86	85.54	1.12	MWD	LEAM DRILLING SYSTEMS
11/14/2...	12,899.00	91.50	182.50	10,419.24	2,735.19	-2,734.76	81.90	0.64	MWD	LEAM DRILLING SYSTEMS
11/14/2...	12,995.00	91.90	183.20	10,416.39	2,831.00	-2,830.59	77.13	0.84	MWD	LEAM DRILLING SYSTEMS
11/14/2...	13,089.00	90.50	182.50	10,414.43	2,924.83	-2,924.45	72.46	1.67	MWD	LEAM DRILLING SYSTEMS
11/14/2...	13,184.00	89.40	183.00	10,414.51	3,019.69	-3,019.34	67.90	1.27	MWD	LEAM DRILLING SYSTEMS
11/14/2...	13,278.00	89.10	183.20	10,415.74	3,113.52	-3,113.20	62.81	0.38	MWD	LEAM DRILLING SYSTEMS
11/14/2...	13,372.00	88.90	181.80	10,417.38	3,207.38	-3,207.09	58.72	1.50	MWD	LEAM DRILLING SYSTEMS
11/14/2...	13,466.00	90.10	182.10	10,418.20	3,301.30	-3,301.03	55.52	1.32	MWD	LEAM DRILLING SYSTEMS
11/14/2...	13,561.00	90.70	181.90	10,417.54	3,396.22	-3,395.97	52.20	0.67	MWD	LEAM DRILLING SYSTEMS
11/14/2...	13,654.00	90.90	181.60	10,416.24	3,489.15	-3,488.92	49.36	0.39	MWD	LEAM DRILLING SYSTEMS
11/14/2...	13,749.00	90.10	180.70	10,415.41	3,584.11	-3,583.89	47.46	1.27	MWD	LEAM DRILLING SYSTEMS
11/14/2...	13,844.00	90.50	181.20	10,414.91	3,679.09	-3,678.88	45.88	0.67	MWD	LEAM DRILLING SYSTEMS
11/14/2...	14,032.00	90.00	180.20	10,414.09	3,867.05	-3,866.86	43.58	0.59	MWD	LEAM DRILLING SYSTEMS
11/14/2...	14,126.00	90.50	180.20	10,413.68	3,961.04	-3,960.86	43.26	0.53	MWD	LEAM DRILLING SYSTEMS
11/14/2...	14,222.00	91.30	180.20	10,412.17	4,057.03	-4,056.84	42.92	0.83	MWD	LEAM DRILLING SYSTEMS
11/14/2...	14,317.00	89.20	179.70	10,411.76	4,152.02	-4,151.84	43.00	2.27	MWD	LEAM DRILLING SYSTEMS
11/14/2...	14,411.00	89.90	179.50	10,412.50	4,246.02	-4,245.83	43.66	0.77	MWD	LEAM DRILLING SYSTEMS
11/14/2...	14,506.00	90.20	179.50	10,412.41	4,341.02	-4,340.83	44.49	0.32	MWD	LEAM DRILLING SYSTEMS
11/14/2...	14,600.00	91.20	179.70	10,411.27	4,435.01	-4,434.82	45.14	1.08	MWD	LEAM DRILLING SYSTEMS
11/14/2...	14,694.00	92.20	180.00	10,408.48	4,528.96	-4,528.78	45.39	1.11	MWD	LEAM DRILLING SYSTEMS
11/14/2...	14,789.00	91.90	179.70	10,405.08	4,623.90	-4,623.71	45.64	0.45	MWD	LEAM DRILLING SYSTEMS
11/14/2...	14,884.00	92.40	179.80	10,401.51	4,718.84	-4,718.65	46.05	0.54	MWD	LEAM DRILLING SYSTEMS
11/14/2...	14,907.00	92.60	179.80	10,400.51	4,741.81	-4,741.62	46.13	0.87	MWD	LEAM DRILLING SYSTEMS
11/14/2...	14,966.00	92.60	179.80	10,397.84	4,800.75	-4,800.56	46.34	0.00	BIT	LEAM DRILLING SYSTEMS