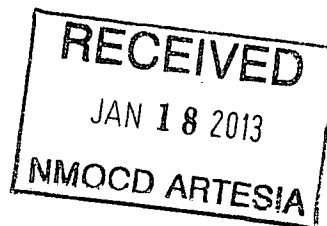




PO Box 261021
Corpus Christi, Texas 78426
(361) 767-0602 • (800) 606-GYRO • Fax (361) 767-0612

August 22, 2012



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

Attn: Mark Cooper

15-40025

Re: **Longboard PWU 20 1H**

Please find enclosed a copy of the survey from 0' to 10,270' ran on the above referenced well.

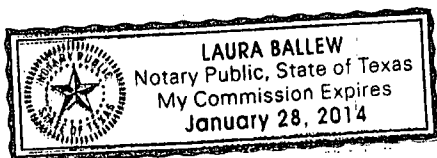
If I can be of any further service, please do not hesitate to call me at 800-606-4976.

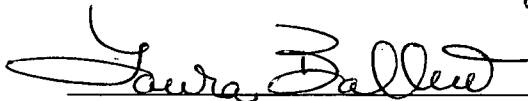
Sincerely,


Keith Havelka
Operations

STATE OF TEXAS §
 §
COUNTY OF NUECES §

This instrument was acknowledged before me on the 24th day of August,
A.D., 2012, by Keith Havelka.





Laura Ballew
Notary Public, State of Texas

Company: Devon Energy Production Co.

Lease/Well: Longboard PWU 20/1H



Rig Name: H&P 223

State/County: New Mexico/Eddy

Latitude: 32.65

GRID North is 0.12 Degrees East of True North

VS-Azi: 0.00 Degrees



RKB : 25 Feet

DRILLOG HA GYRO SURVEY CALCULATIONS

Filename: ...oard pwu 20-1h gyro survey.ut

Minimum Curvature Method

Report Date/Time: 8/22/2012 / 13:17

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JAN 18 2013
NMOCD ARTESIA

Vaughn Energy Services

Gardendale, Texas

432-563-5444

Surveyor: Chris Tallant

Longboard PWU 20 1H / API 30-015-40025

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	0.24	168.24	100.00	-0.21	0.04	-0.21	0.21	168.24	0.24
200.00	0.15	29.82	200.00	-0.30	0.15	-0.30	0.33	152.84	0.37
300.00	0.26	322.21	300.00	0.00	0.08	0.00	0.08	88.98	0.25
400.00	0.37	254.60	400.00	0.10	-0.38	0.10	0.39	284.26	0.37
500.00	0.28	339.56	500.00	0.23	-0.78	0.23	0.81	286.80	0.44
600.00	0.18	64.51	600.00	0.53	-0.72	0.53	0.89	306.06	0.31
700.00	0.83	75.76	699.99	0.77	0.12	0.77	0.78	8.54	0.65
800.00	1.48	87.01	799.97	1.01	2.10	1.01	2.33	64.23	0.69
900.00	1.21	90.54	899.94	1.07	4.45	1.07	4.58	76.45	0.28
1000.00	0.95	94.07	999.93	1.00	6.34	1.00	6.42	81.01	0.27
1100.00	0.62	97.16	1099.92	0.88	7.70	0.88	7.75	83.50	0.34
1200.00	0.28	100.25	1199.91	0.77	8.48	0.77	8.51	84.84	0.34
1300.00	0.29	147.93	1299.91	0.51	8.86	0.51	8.87	86.73	0.23
1400.00	0.30	195.62	1399.91	0.04	8.92	0.04	8.92	89.77	0.24
1500.00	0.43	216.91	1499.91	-0.52	8.63	-0.52	8.64	93.43	0.19
1600.00	0.56	238.20	1599.90	-1.08	7.99	-1.08	8.06	97.67	0.22
1700.00	0.93	236.90	1699.90	-1.77	6.89	-1.77	7.12	104.43	0.37
1800.00	1.30	235.61	1799.88	-2.85	5.28	-2.85	6.00	118.38	0.37

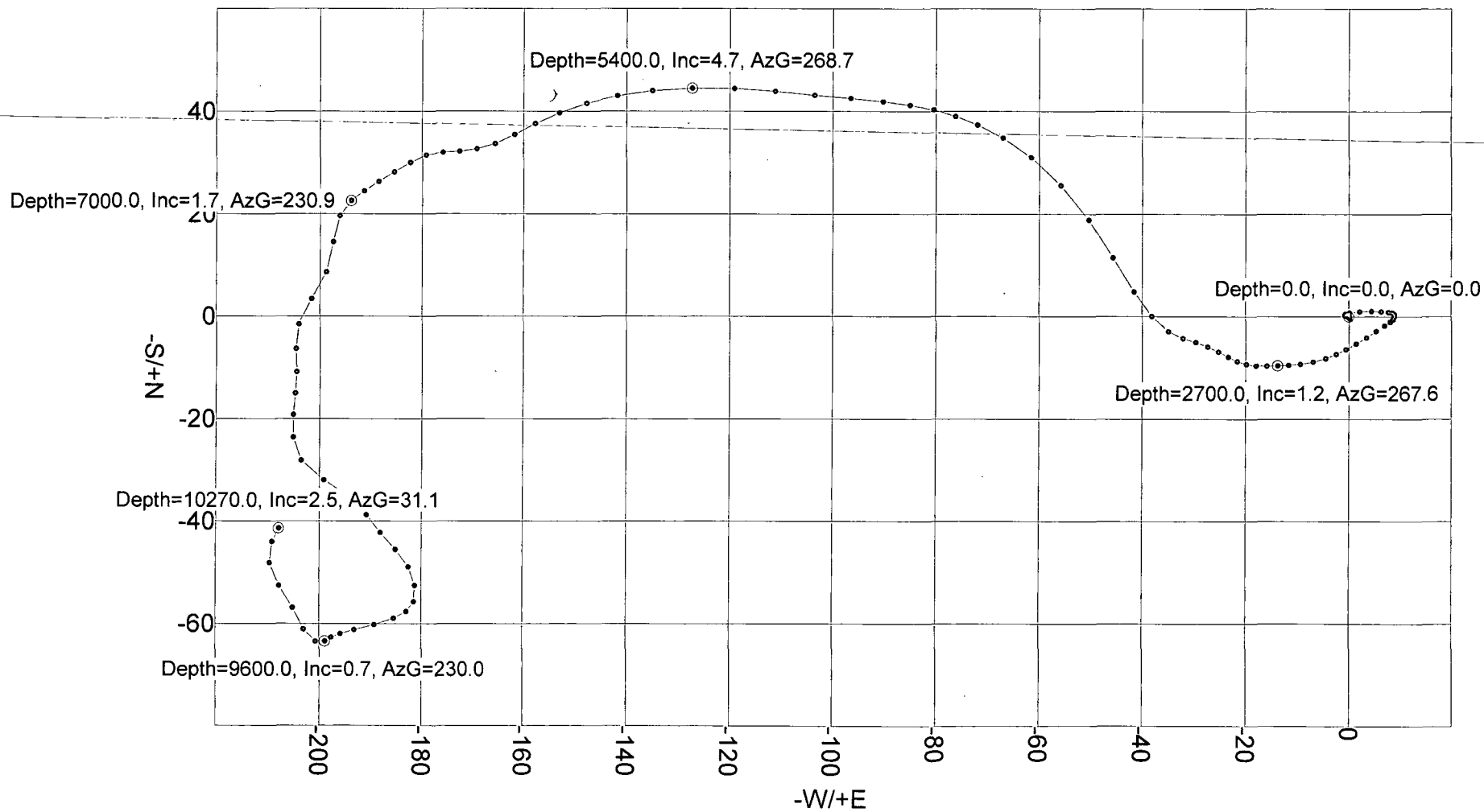
Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
1900.00	1.33	237.96	1899.85	-4.11	3.37	-4.11	5.31	140.65	0.06
2000.00	1.36	240.31	1999.82	-5.31	1.35	-5.31	5.48	165.68	0.06
2100.00	1.26	242.12	2099.80	-6.41	-0.65	-6.41	6.44	185.76	0.11
2200.00	1.16	243.94	2199.77	-7.37	-2.52	-7.37	7.79	198.91	0.11
2300.00	1.34	251.08	2299.75	-8.19	-4.54	-8.19	9.36	208.99	0.24
2400.00	1.52	258.22	2399.72	-8.84	-6.95	-8.84	11.25	218.16	0.26
2500.00	1.37	262.58	2499.69	-9.27	-9.44	-9.27	13.23	225.52	0.19
2600.00	1.22	266.93	2599.66	-9.48	-11.69	-9.48	15.05	230.95	0.18
2700.00	1.22	267.60	2699.64	-9.58	-13.82	-9.58	16.81	235.26	0.01
2800.00	1.23	268.26	2799.62	-9.66	-15.95	-9.66	18.65	238.81	0.01
2900.00	1.14	275.71	2899.60	-9.59	-18.01	-9.59	20.40	241.96	0.18
3000.00	1.04	283.16	2999.58	-9.29	-19.88	-9.29	21.95	244.97	0.17
3100.00	1.10	291.51	3099.56	-8.73	-21.66	-8.73	23.35	248.06	0.16
3200.00	1.15	299.86	3199.54	-7.88	-23.43	-7.88	24.71	251.42	0.17
3300.00	1.28	296.47	3299.52	-6.88	-25.29	-6.88	26.21	254.78	0.14
3400.00	1.40	293.07	3399.49	-5.90	-27.41	-5.90	28.04	257.84	0.15
3500.00	1.43	289.15	3499.46	-5.02	-29.72	-5.02	30.14	260.42	0.10
3600.00	1.47	285.24	3599.43	-4.27	-32.14	-4.27	32.42	262.43	0.10
3700.00	2.15	303.17	3699.38	-2.90	-34.94	-2.90	35.06	265.25	0.88
3800.00	2.84	321.10	3799.29	0.05	-38.07	0.05	38.07	270.07	1.03
3900.00	3.95	325.68	3899.11	4.82	-41.57	4.82	41.84	276.61	1.14
4000.00	5.06	330.26	3998.80	11.49	-45.69	11.49	47.12	284.12	1.17
4100.00	4.99	324.12	4098.41	18.84	-50.43	18.84	53.83	290.49	0.54
4200.00	4.93	317.98	4198.04	25.56	-55.85	25.56	61.42	294.59	0.53
4300.00	4.18	308.83	4297.73	31.03	-61.56	31.03	68.94	296.75	1.04
4400.00	3.43	299.68	4397.51	34.80	-67.00	34.80	75.50	297.45	0.96
4500.00	2.93	294.28	4497.35	37.33	-71.92	37.33	81.03	297.43	0.58
4600.00	2.43	288.88	4597.24	39.07	-76.26	39.07	85.68	297.12	0.56
4700.00	2.58	283.89	4697.15	40.29	-80.46	40.29	89.98	296.60	0.27
4800.00	2.74	278.90	4797.04	41.20	-85.00	41.20	94.46	295.86	0.28
4900.00	3.32	276.73	4896.90	41.91	-90.23	41.91	99.49	294.91	0.59
5000.00	3.90	274.56	4996.70	42.52	-96.50	42.52	105.45	293.78	0.60
5100.00	4.23	275.15	5096.45	43.12	-103.56	43.12	112.18	292.61	0.33
5200.00	4.55	275.74	5196.16	43.85	-111.18	43.85	119.52	291.53	0.33
5300.00	4.63	272.23	5295.84	44.41	-119.17	44.41	127.17	290.44	0.29
5400.00	4.71	268.71	5395.50	44.47	-127.31	44.47	134.85	289.25	0.30
5500.00	4.18	263.85	5495.20	43.99	-135.04	43.99	142.03	288.04	0.65
5600.00	3.66	258.99	5594.97	42.99	-141.80	42.99	148.17	286.86	0.62
5700.00	3.35	253.24	5694.78	41.54	-147.73	41.54	153.46	285.70	0.47

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	3.04	247.48	5794.63	39.68	-152.97	39.68	158.03	284.54	0.45
5900.00	2.81	244.27	5894.50	37.60	-157.62	37.60	162.05	283.42	0.28
6000.00	2.58	241.05	5994.39	35.45	-161.80	35.45	165.64	282.36	0.27
6100.00	2.29	250.02	6094.29	33.67	-165.65	33.67	169.04	281.49	0.48
6200.00	2.00	258.99	6194.22	32.66	-169.25	32.66	172.37	280.92	0.44
6300.00	1.93	264.18	6294.17	32.15	-172.64	32.15	175.61	280.55	0.19
6400.00	1.86	269.38	6394.11	31.96	-175.94	31.96	178.82	280.30	0.19
6500.00	1.98	253.95	6494.06	31.47	-179.23	31.47	181.97	279.96	0.53
6600.00	2.09	238.52	6593.99	30.04	-182.43	30.04	184.89	279.35	0.56
6700.00	2.06	238.78	6693.93	28.16	-185.52	28.16	187.65	278.63	0.03
6800.00	2.03	239.03	6793.86	26.32	-188.57	26.32	190.40	277.95	0.03
6900.00	1.88	234.99	6893.81	24.47	-191.44	24.47	192.99	277.28	0.20
7000.00	1.74	230.94	6993.76	22.57	-193.96	22.57	195.27	276.64	0.19
7100.00	2.63	207.64	7093.68	19.58	-196.20	19.58	197.18	275.70	1.24
7200.00	3.51	184.34	7193.54	14.50	-197.50	14.50	198.03	274.20	1.51
7300.00	3.46	200.42	7293.36	8.61	-198.78	8.61	198.97	272.48	0.98
7400.00	3.40	216.50	7393.18	3.41	-201.60	3.41	201.63	270.97	0.96
7500.00	3.03	195.77	7493.03	-1.52	-204.08	-1.52	204.09	269.57	1.21
7600.00	2.66	175.03	7592.91	-6.38	-204.60	-6.38	204.70	268.21	1.09
7700.00	2.50	180.84	7692.81	-10.87	-204.43	-10.87	204.72	266.96	0.31
7800.00	2.34	186.66	7792.72	-15.08	-204.70	-15.08	205.25	265.79	0.29
7900.00	2.45	182.43	7892.63	-19.23	-205.02	-19.23	205.92	264.64	0.21
8000.00	2.56	178.20	7992.54	-23.59	-205.05	-23.59	206.40	263.44	0.21
8100.00	3.13	147.82	8092.42	-28.13	-203.52	-28.13	205.46	262.13	1.59
8200.00	3.70	117.45	8192.25	-31.93	-199.20	-31.93	201.74	260.89	1.87
8300.00	3.12	130.34	8292.07	-35.18	-194.26	-35.18	197.42	259.73	0.96
8400.00	2.54	143.24	8391.95	-38.72	-190.86	-38.72	194.75	258.53	0.86
8500.00	2.55	139.55	8491.85	-42.19	-188.09	-42.19	192.76	257.36	0.16
8600.00	2.56	135.86	8591.75	-45.48	-185.09	-45.48	190.60	256.19	0.17
8700.00	2.34	152.49	8691.66	-48.90	-182.59	-48.90	189.03	255.01	0.74
8800.00	2.12	169.13	8791.59	-52.53	-181.30	-52.53	188.76	253.84	0.68
8900.00	1.68	202.80	8891.54	-55.69	-181.52	-55.69	189.87	252.94	1.18
9000.00	1.23	236.47	8991.51	-57.63	-182.98	-57.63	191.84	252.52	0.94
9100.00	1.94	246.10	9091.47	-58.92	-185.43	-58.92	194.56	252.37	0.76
9200.00	2.66	255.73	9191.39	-60.17	-189.23	-60.17	198.56	252.36	0.81
9300.00	1.97	254.78	9291.30	-61.20	-193.13	-61.20	202.59	252.42	0.69
9400.00	1.29	253.82	9391.26	-61.96	-195.87	-61.96	205.43	252.45	0.69
9500.00	0.97	241.89	9491.24	-62.67	-197.69	-62.67	207.39	252.41	0.39
9600.00	0.66	229.95	9591.23	-63.44	-198.88	-63.44	208.75	252.31	0.36

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
9700.00	1.62	283.21	9691.21	-63.49	-200.70	-63.49	210.50	252.45	1.34
9800.00	2.59	336.47	9791.15	-61.09	-202.98	-61.09	211.97	253.25	2.08
9900.00	2.81	330.79	9891.04	-56.88	-205.07	-56.88	212.82	254.50	0.35
10000.00	3.04	325.11	9990.91	-52.57	-207.79	-52.57	214.33	255.80	0.37
10100.00	2.65	353.30	10090.80	-48.09	-209.57	-48.09	215.02	257.08	1.43
10200.00	2.27	21.49	10190.71	-43.95	-209.12	-43.95	213.69	258.13	1.26
10270.00	2.50	31.15	10260.65	-41.36	-207.82	-41.36	211.90	258.75	0.66



Vaughn Energy Services
Gardendale, Texas
432-563-5444
Surveyor: Chris Tallant
Longboard PWU 20 1H / API 30-015-40025



VES Survey Date: 08/15/2012

HALLIBURTON

14103 Interwood S. Parkway • Houston, TX 77032

PHONE 281.986.4400 • FAX 281.986.4499

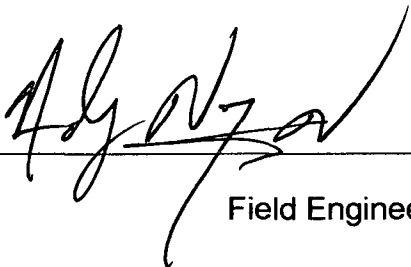
RECEIVED

JAN 18 2013

NMOCD ARTESIA

State of New Mexico, Eddy County

I, Andy Naquin, certify that I am employed by Halliburton Energy Services, Inc. (AKA Sperry Drilling) and that on the dates of 27 August 2012 through 17 September 2012, I did conduct or supervise the taking of MWD directional surveys for the well Longboard PWU 20 #1H ST02 from a depth of 9160' MD to a depth of 13748' MD. This data is true, correct, complete and within the limitations of the tools as set forth by Halliburton Energy Services, Inc. (AKA Sperry Drilling). I am authorized and qualified to make this report and this survey which was conducted at the request of Devon Energy for the well of Longboard PWU 20 #1H ST 02 API No. 30-015-40025-0200 in Eddy County, New Mexico. I have reviewed this report and find that it confirms to the principles and procedures as set forth by Halliburton Energy Services, Inc. (AKA Sperry Drilling).



Field Engineer

Devon Energy

Longboard PWU 20 #1H ST 02

Eddy County, NM

H&P 223

API# 30-015-40025-0200

RECEIVED

JAN 18 2013

NMOCD ARTESIA

August 27, 2012 – September 17, 2012

HD-MJ-0009491571

Sperry Drilling Services **MWD Survey Report**

Submitted by Andy Naquin

3950 Interwood South Parkway

Houston, TX 77032

Ph: 281.986.4400

HALLIBURTON

Drilling and Formation
Evaluation



Survey Report for Devon Energy

Rig : H&P 223
Well Name : Longboard PWU 20 #1H ST02
Field Name : Park Way Unit, Wolfcamp Shale
Country : USA
Job Number : HD-XX-0009491571
Job Start Date : 27-Aug-12
API Number : 30-015-40025-0200



DIRECTIONAL SURVEY DATA

Tie-in

0.00

0.00

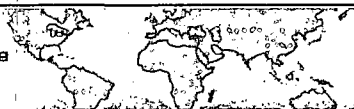
0.00

0.00

0.00 N

0.00 E

Measured Depth (ft)	Inclination (deg)	Direction (deg)	Vertical Depth (ft)	Latitude (ft)	Departure (ft)	Vertical Section (ft)	Dogleg (%/100)
100.00	0.24	168.24	100.00	0.21 S	0.04 E	0.05	0.24
200.00	0.15	29.82	200.00	0.30 S	0.15 E	0.16	0.37
300.00	0.26	322.21	300.00	0.00 S	0.08 E	0.08	0.25
400.00	0.37	254.60	400.00	0.09 N	0.37 W	-0.38	0.36
500.00	0.28	339.56	500.00	0.23 N	0.77 W	-0.78	0.44
600.00	0.18	64.51	600.00	0.53 N	0.71 W	-0.74	0.32
700.00	0.83	75.76	699.99	0.78 N	0.13 E	0.10	0.65
800.00	1.48	87.01	799.97	1.02 N	2.12 E	2.08	0.69
900.00	1.21	90.54	899.94	1.08 N	4.47 E	4.42	0.28
1000.00	0.95	94.07	999.93	1.01 N	6.35 E	6.30	0.27
1100.00	0.62	97.16	1,099.92	0.88 N	7.71 E	7.67	0.33
1200.00	0.28	100.25	1,199.91	0.77 N	8.49 E	8.45	0.34
1300.00	0.29	147.93	1,299.91	0.51 N	8.87 E	8.84	0.23
1400.00	0.30	195.62	1,399.91	0.05 N	8.93 E	8.92	0.24
1500.00	0.43	216.91	1,499.91	0.50 S	8.63 E	8.65	0.19
1600.00	0.56	238.20	1,599.91	1.06 S	7.99 E	8.03	0.22
1700.00	0.93	236.90	1,699.90	1.76 S	6.90 E	6.96	0.37
1800.00	1.30	235.61	1,799.88	2.85 S	5.28 E	5.39	0.37
1900.00	1.33	237.96	1,899.85	4.10 S	3.36 E	3.53	0.06
2000.00	1.36	240.31	1,999.82	5.31 S	1.35 E	1.56	0.06
2100.00	1.26	242.12	2,099.80	6.41 S	0.66 W	-0.39	0.11
2200.00	1.16	243.94	2,199.78	7.37 S	2.54 W	-2.23	0.11
2300.00	1.34	251.08	2,299.75	8.19 S	4.55 W	-4.21	0.24
2400.00	1.52	258.22	2,399.72	8.84 S	6.96 W	-6.59	0.25
2500.00	1.37	262.58	2,499.69	9.27 S	9.44 W	-9.05	0.19
2600.00	1.22	266.93	2,599.66	9.48 S	11.69 W	-11.29	0.18
2700.00	1.22	267.60	2,699.64	9.58 S	13.82 W	-13.41	0.01
2800.00	1.23	268.26	2,799.62	9.66 S	15.95 W	-15.54	0.02
2900.00	1.14	275.71	2,899.60	9.59 S	18.01 W	-17.60	0.18
3000.00	1.04	283.16	2,999.58	9.28 S	19.89 W	-19.49	0.17
3100.00	1.10	291.51	3,099.56	8.73 S	21.66 W	-21.29	0.17
3200.00	1.15	299.86	3,199.54	7.87 S	23.43 W	-23.08	0.17
3300.00	1.28	296.47	3,299.52	6.88 S	25.30 W	-24.99	0.15
3400.00	1.40	293.07	3,399.49	5.90 S	27.42 W	-27.16	0.14
3500.00	1.43	289.15	3,499.46	5.01 S	29.72 W	-29.49	0.10
3600.00	1.47	285.24	3,599.43	4.27 S	32.14 W	-31.94	0.11
3700.00	2.15	303.17	3,699.38	2.90 S	34.95 W	-34.80	0.88
3800.00	2.84	321.10	3,799.29	0.05 N	38.07 W	-38.04	1.03
3900.00	3.95	325.68	3,899.11	4.83 N	41.57 W	-41.74	1.14
4000.00	5.06	330.26	3,998.80	11.50 N	45.70 W	-46.14	1.17
4100.00	4.99	324.12	4,098.41	18.85 N	50.44 W	-51.17	0.54



DIRECTIONAL-SURVEY DATA

Measured Depth (ft)	Inclination (deg)	Direction (deg)	Vertical Depth (ft)	Latitude (N)	Departure (ft)	Vertical Section (ft)	Dogleg (%/100)
4200.00	4.93	317.98	4,198.04	25.57 N	55.86 W	-56.87	0.53
4300.00	4.18	308.83	4,297.73	31.05 N	61.58 W	-62.81	1.04
4400.00	3.43	299.68	4,397.51	34.81 N	67.02 W	-68.39	0.96
4500.00	2.93	294.28	4,497.35	37.34 N	71.95 W	-73.42	0.58
4600.00	2.43	288.88	4,597.24	39.08 N	76.28 W	-77.83	0.56
4700.00	2.58	283.89	4,697.15	40.31 N	80.47 W	-82.06	0.26
4800.00	2.74	278.90	4,797.04	41.22 N	85.02 W	-86.64	0.28
4900.00	3.32	276.73	4,896.90	41.93 N	90.26 W	-91.91	0.59
5000.00	3.90	274.56	4,996.70	42.54 N	96.52 W	-98.19	0.60
5100.00	4.23	275.15	5,096.45	43.14 N	103.59 W	-105.27	0.33
5200.00	4.55	275.74	5,196.15	43.87 N	111.21 W	-112.92	0.32
5300.00	4.63	272.23	5,295.83	44.42 N	119.18 W	-120.91	0.29
5400.00	4.71	268.71	5,395.50	44.48 N	127.32 W	-129.05	0.30
5500.00	4.18	263.85	5,495.20	44.00 N	135.05 W	-136.75	0.65
5600.00	3.66	258.99	5,594.97	43.00 N	141.81 W	-143.46	0.62
5700.00	3.35	253.24	5,694.78	41.55 N	147.74 W	-149.32	0.47
5800.00	3.04	247.48	5,794.63	39.69 N	152.98 W	-154.49	0.45
5900.00	2.81	244.27	5,894.50	37.61 N	157.64 W	-159.06	0.28
6000.00	2.58	241.05	5,994.38	35.46 N	161.82 W	-163.14	0.28
6100.00	2.29	250.02	6,094.29	33.69 N	165.67 W	-166.91	0.48
6200.00	2.00	258.99	6,194.22	32.67 N	169.26 W	-170.46	0.44
6300.00	1.93	264.18	6,294.17	32.17 N	172.65 W	-173.82	0.19
6400.00	1.86	269.38	6,394.11	31.98 N	175.94 W	-177.11	0.19
6500.00	1.98	253.95	6,494.06	31.48 N	179.23 W	-180.37	0.53
6600.00	2.09	238.52	6,593.99	30.05 N	182.44 W	-183.52	0.56
6700.00	2.06	238.78	6,693.93	28.17 N	185.53 W	-186.54	0.03
6800.00	2.03	239.03	6,793.86	26.33 N	188.59 W	-189.51	0.03
6900.00	1.88	234.99	6,893.81	24.47 N	191.45 W	-192.30	0.20
7000.00	1.74	230.94	6,993.76	22.58 N	193.97 W	-194.74	0.19
7100.00	2.63	207.64	7,093.68	19.59 N	196.22 W	-196.86	1.24
7200.00	3.51	184.34	7,193.54	14.50 N	197.51 W	-197.94	1.51
7300.00	3.46	200.42	7,293.36	8.62 N	198.80 W	-198.98	0.98
7400.00	3.40	216.50	7,393.18	3.41 N	201.62 W	-201.58	0.96
7500.00	3.03	195.77	7,493.03	1.52 S	204.10 W	-203.86	1.21
7600.00	2.66	175.03	7,592.91	6.37 S	204.61 W	-204.18	1.09
7700.00	2.50	180.84	7,692.81	10.87 S	204.45 W	-203.82	0.31
7800.00	2.34	186.66	7,792.72	15.08 S	204.71 W	-203.92	0.29
7900.00	2.45	182.43	7,892.63	19.24 S	205.04 W	-204.08	0.21
8000.00	2.56	178.20	7,992.54	23.61 S	205.06 W	-203.92	0.22
8100.00	3.13	147.82	8,092.42	28.15 S	203.54 W	-202.21	1.59
8200.00	3.70	117.45	8,192.25	31.95 S	199.22 W	-197.74	1.87
8300.00	3.12	130.34	8,292.07	35.20 S	194.28 W	-192.67	0.96
8400.00	2.54	143.24	8,391.95	38.73 S	190.88 W	-189.13	0.86
8500.00	2.55	139.55	8,491.85	42.20 S	188.11 W	-186.22	0.16
8600.00	2.56	135.86	8,591.75	45.50 S	185.11 W	-183.08	0.16



DIRECTIONAL SURVEY DATA

Measured Depth (ft)	Inclination (deg)	Direction (deg)	Vertical Depth (ft)	Latitude (N)	Departure (ft)	Vertical Section (ft)	Dogleg (%/100)
8700.00	2.34	152.49	8,691.66	48.91 S	182.62 W	-180.45	0.74
8800.00	2.12	169.13	8,791.59	52.54 S	181.32 W	-179.01	0.68
8900.00	1.68	202.80	8,891.54	55.71 S	181.54 W	-179.10	1.18
9000.00	1.23	236.47	8,991.51	57.65 S	183.01 W	-180.48	0.95
9082.00	1.81	244.93	9,073.48	58.68 S	184.91 W	-182.34	0.76
9107.00	3.15	108.76	9,098.46	59.07 S	184.62 W	-182.03	18.51
9160.00	11.55	108.78	9,150.98	61.25 S	178.21 W	-175.53	15.85
9192.00	16.65	105.50	9,182.01	63.51 S	170.75 W	-167.99	16.13
9223.00	21.50	102.50	9,211.30	65.93 S	160.92 W	-158.07	15.94
9255.00	24.93	99.15	9,240.70	68.27 S	148.53 W	-145.59	11.50
9287.00	27.81	97.65	9,269.37	70.34 S	134.47 W	-131.46	9.22
9319.00	30.75	97.04	9,297.28	72.34 S	118.95 W	-115.87	9.23
9351.00	33.48	95.45	9,324.38	74.18 S	102.04 W	-98.90	8.93
9381.00	36.96	94.89	9,348.89	75.74 S	84.81 W	-81.62	11.65
9413.00	39.94	95.14	9,373.94	77.48 S	64.99 W	-61.75	9.34
9445.00	45.02	93.34	9,397.54	79.06 S	43.45 W	-40.15	16.32
9477.00	52.42	91.40	9,418.63	80.03 S	19.44 W	-16.12	23.57
9509.00	60.62	90.34	9,436.27	80.42 S	7.23 E	10.53	25.75
9541.00	66.92	89.33	9,450.41	80.33 S	35.92 E	39.20	19.92
9558.00	69.74	89.69	9,456.68	80.20 S	51.71 E	54.97	16.65
9590.00	73.48	90.17	9,466.78	80.16 S	82.07 E	85.31	11.79
9622.00	75.24	91.23	9,475.40	80.54 S	112.89 E	116.11	6.36
9654.00	76.30	90.87	9,483.27	81.11 S	143.90 E	147.12	3.47
9685.00	77.84	90.81	9,490.21	81.55 S	174.11 E	177.32	4.97
9717.00	79.04	91.13	9,496.62	82.08 S	205.45 E	208.66	3.86
9749.00	80.35	90.95	9,502.35	82.65 S	236.93 E	240.13	4.16
9781.00	81.82	91.00	9,507.30	83.19 S	268.54 E	271.74	4.60
9813.00	83.20	90.65	9,511.47	83.65 S	300.26 E	303.45	4.42
9877.00	85.71	90.05	9,517.66	84.03 S	363.96 E	367.11	4.03
9908.00	87.72	89.83	9,519.44	83.99 S	394.90 E	398.03	6.52
9972.00	89.81	89.44	9,520.82	83.59 S	458.88 E	461.94	3.33
10067.00	90.99	89.11	9,520.15	82.38 S	553.87 E	556.79	1.28
10163.00	88.80	89.57	9,520.33	81.27 S	649.86 E	652.65	2.33
10259.00	89.04	90.06	9,522.14	80.96 S	745.84 E	748.54	0.57
10354.00	87.19	89.32	9,525.27	80.45 S	840.78 E	843.38	2.10
10450.00	84.50	88.49	9,532.22	78.62 S	936.50 E	938.95	2.93
10545.00	83.88	88.04	9,541.84	75.76 S	1,030.97 E	1033.22	0.81
10641.00	86.79	89.82	9,549.66	73.97 S	1,126.62 E	1128.71	3.55
10736.00	88.09	90.72	9,553.90	74.41 S	1,221.52 E	1223.55	1.66
10832.00	90.93	91.25	9,554.73	76.06 S	1,317.49 E	1319.51	3.01
10927.00	88.55	92.41	9,555.17	79.09 S	1,412.44 E	1414.50	2.79
11022.00	87.56	93.42	9,558.39	83.93 S	1,507.26 E	1509.43	1.49
11117.00	91.45	92.37	9,559.21	88.73 S	1,602.11 E	1604.41	4.24
11213.00	96.46	92.03	9,552.58	92.40 S	1,697.78 E	1700.15	5.23
11308.00	96.09	92.22	9,542.19	95.90 S	1,792.15 E	1794.58	0.44



DIRECTIONAL SURVEY DATA

Measured Depth (ft)	Inclination (deg)	Direction (deg)	Vertical Depth (ft)	Latitude (ft)	Departure (ft)	Vertical Section (ft)	Dogleg (%/100)
11404.00	93.92	91.93	9,533.81	99.36 S	1,887.71 E	1890.20	2.28
11499.00	91.54	91.59	9,529.29	102.28 S	1,982.55 E	1985.08	2.53
11595.00	87.78	91.89	9,529.85	105.19 S	2,078.49 E	2081.06	3.93
11711.00	92.04	91.00	9,530.04	108.12 S	2,194.42 E	2197.02	3.75
11807.00	95.72	91.38	9,523.55	110.11 S	2,290.17 E	2292.76	3.85
11902.00	90.34	90.85	9,518.53	111.96 S	2,384.98 E	2387.57	5.69
11997.00	87.50	89.24	9,520.32	112.03 S	2,479.95 E	2482.46	3.44
12093.00	89.41	90.42	9,522.91	111.74 S	2,575.91 E	2578.33	2.34
12188.00	88.95	88.56	9,524.27	110.89 S	2,670.89 E	2673.19	2.01
12284.00	88.61	89.24	9,526.31	109.05 S	2,766.85 E	2769.00	0.79
12379.00	90.46	89.46	9,527.08	107.97 S	2,861.84 E	2863.86	1.96
12474.00	90.37	89.16	9,526.39	106.82 S	2,956.83 E	2958.72	0.33
12570.00	91.20	91.38	9,525.07	107.27 S	3,052.81 E	3054.64	2.47
12665.00	90.56	90.83	9,523.61	109.10 S	3,147.78 E	3149.61	0.89
12761.00	89.97	90.34	9,523.17	110.09 S	3,243.78 E	3245.56	0.79
12856.00	89.66	89.75	9,523.48	110.17 S	3,338.77 E	3340.48	0.70
12952.00	89.54	89.36	9,524.15	109.43 S	3,434.77 E	3436.36	0.43
13047.00	88.73	88.64	9,525.59	107.77 S	3,529.74 E	3531.19	1.14
13143.00	87.81	88.75	9,528.48	105.58 S	3,625.67 E	3626.95	0.97
13238.00	87.34	88.13	9,532.50	103.00 S	3,720.55 E	3721.64	0.82
13333.00	88.46	93.75	9,535.98	104.56 S	3,815.44 E	3816.51	6.02
13429.00	86.98	95.15	9,539.81	112.00 S	3,911.07 E	3912.36	2.12
13525.00	87.84	96.52	9,544.15	121.75 S	4,006.47 E	4008.08	1.68
13620.00	88.18	95.83	9,547.45	131.96 S	4,100.86 E	4102.81	0.80
13715.00	87.25	94.59	9,551.24	140.59 S	4,195.39 E	4197.62	1.63
13748.00	87.13	94.58	9,552.86	143.22 S	4,228.24 E	4230.55	0.38
13827.00	87.13	94.58	9,556.82	149.53 S	4,306.89 E	4309.40	0.00

**DIRECTIONAL SURVEY DATA NOTES**

- Calculation based on minimum curvature method.
- Survey coordinates relative to well system reference point.
- TVD values given relative to drilling measurement point.
- Vertical section relative to well head.
- Vertical section is computed along a direction of 92.36 degrees (Grid)
- A total correction of 7.70 deg from Magnetic north to Grid north has been applied
- Horizontal displacement is relative to the well head.
- Horizontal displacement (closure) at 13,827.00 feet is 4,309.49 feet along 91.99 degrees (Grid)

SURVEYS CALCULATED USING LONG COLLAR METHOD**TIE-ON SURVEY ASSUMED VERTICAL AT SURFACE**

SURVEYS FROM 100' MD TO 9000' MD ARE PROVIDED BY VAUGHN ENERGY SERVICES.

SURVEYS FROM 9082' MD TO 9107' MD ARE PROVIDED BY GYRO DATA.

SURVEYS FROM 9160' MD TO 13748' MD ARE PROVIDED BY SPERRY DRILLING MWD

SURVEY AT 13748' MD HAS BEEN PROJECTED TO TD AT 13827' MD

SPERRY ENGINEERS: ANDY NAQUIN, KENNETH MARSHALL, TIMOTHY CHURCH, LAKENDRICK SMITH

WARRANTY

HALLIBURTON ENERGY SERVICES, INC. WILL USE ITS BEST EFFORTS TO FURNISH CUSTOMERS WITH ACCURATE INFORMATION AND INTERPRETATIONS THAT ARE PART OF, AND INCIDENT TO, THE SERVICES PROVIDED. HOWEVER, HALLIBURTON ENERGY SERVICES, INC. CANNOT AND DOES NOT WARRANT THE ACCURACY OR CORRECTNESS OF SUCH INFORMATION AND INTERPRETATIONS. UNDER NO CIRCUMSTANCES SHOULD ANY SUCH INFORMATION OR INTERPRETATION BE RELIED UPON AS THE SOLE BASIS FOR ANY DRILLING, COMPLETION, PRODUCTION, OR FINANCIAL DECISION OR ANY PROCEDURE INVOLVING ANY RISK TO THE SAFETY OF ANY DRILLING VENTURE, DRILLING RIG OR ITS CREW OR ANY THIRD PARTY. THE CUSTOMER HAS FULL RESPONSIBILITY FOR ALL DRILLING, COMPLETION, AND PRODUCTION OPERATION. HALLIBURTON ENERGY SERVICES, INC. MAKES NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, WITH RESPECT TO THE SERVICES RENDERED. IN NO EVENT WILL HALLIBURTON ENERGY SERVICES, INC. SERVICES BE LIABLE FOR FAILURE TO OBTAIN ANY PARTICULAR RESULTS OR FOR ANY DAMAGES, INCLUDING, BUT NOT LIMITED TO, INDIRECT, SPECIAL OR CONSEQUENTIAL DAMAGES, RESULTING FROM THE USE OF ANY INFORMATION OR INTERPRETATION PROVIDED BY HALLIBURTON ENERGY SERVICES, INC.

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

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JAN 18 2013

NMOC D ARTESIA

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised October 15, 2009
Submit one copy to appropriate
District Office
☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-40025	² Pool Code 49637	³ Pool Name Parkway; Wolfcamp
⁴ Property Code 39110	⁵ Property Name LONGBOARD PWU 20	⁶ Well Number 1H
⁷ OGRID No. 6137	⁸ Operator Name DEVON ENERGY PRODUCTION COMPANY, L.P.	⁹ Elevation 3340.3

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	20	19 S	29 E		1500	NORTH	355	WEST	EDDY

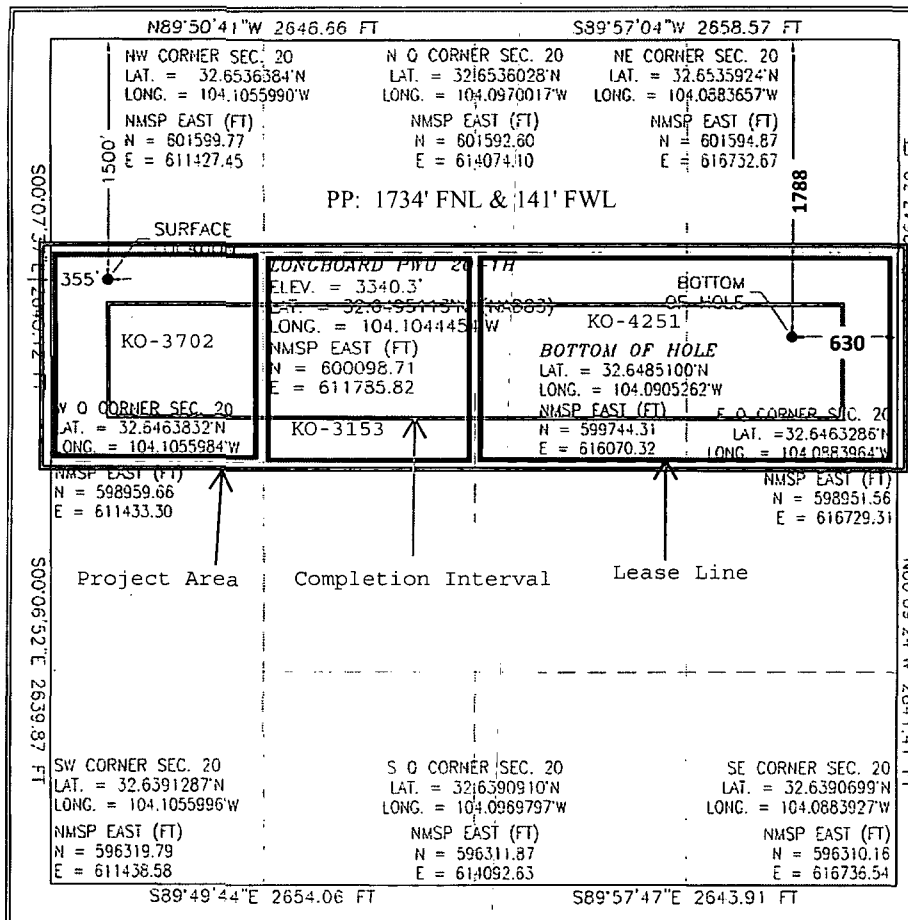
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	20	19 S	29 E		1788	NORTH	630	EAST	EDDY

¹² Dedicated Acres 160.00	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

"As Drilled"



¹⁷ OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Patti Riechers 1/15/2013
Signature Date

Printed Name
Patti Riechers, Regulatory Specialist

¹⁸ SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

APRIL 5 2013
Date of Survey
FILTON F. JARAMILLO
Signature and Seal of Professional Surveyor
Certificate Number: FILTON F. JARAMILLO, PLS 12797
SURVEY NO. 1001