



NorAm Drilling Company

A GLOBAL RIG COMPANY ASA

Operator: XTO Energy

Well & Lease Number: Perla Verde 31 State 4H

County: Lea

30-025-41863

HOBBS DCD

APR 06 2015

RECEIVED

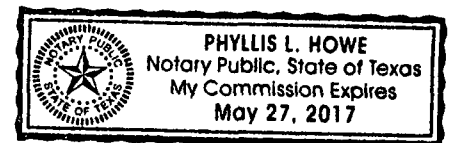
State of New Mexico

Deviation Report

<u>Footage</u>	<u>Degree</u>
497	1.0
946	0.75
1417	0.5
1882	1.0
2323	2.75
2701	1.75
2984	3.5
3078	2.0
3172	1.5
3362	3.0
3455	2.0
3739	1.25
3895	1.0
4066	1.3
4254	1.0
4470	0.5
4947	0.3
5387	0.3
5860	1.0

Completed By: Will Luker

Will Luker, Safety Director
NorAm Drilling Company



Appeared before me on: 3/16/2015

Notary Public: Phyllis L. Howe

8400 N. Sam Houston Parkway West • Suite 120 • Houston, TX 77064 USA • Phone: (281) 598-9200 • Fax (281) 598-9220

1804 Rotary Drive • Humble, TX 77338 USA • Phone: (281) 540-7070 • Fax (281) 540-7071

www.noramdrilling.com

APR 16 2015

HALLIBURTON

3950 Interwood South Pkwy Houston, TX 77032
Phone 281-986-4416 Fax 281-986-4499

HOBBS OCD

APR 06 2015

RECEIVED

February 10, 2015

XTO ENERGY

Attn: Stephanie Rabadue
500 W. Illinois Ste 100
Midland, TX 79701

Final Survey for:

Well Name: Perla Verde 31 State 4H
County: Lea County, NM
Rig Name: Noram 25
Sperry Job #: 901961759

Stephanie Rabadue

Enclosed you will find the following survey information on the above referenced well:

- 0 *Survey Report(s)*
- 0 *MWD End of Well Report(s)*
- 2 Certified Letters for New Mexico OCD**

We appreciate the opportunity to serve you and welcome any comments or suggestions that you may have regarding our service. You may contact your local sales representative, **Don King @ 713-553-8649**

Should you have any questions or require additional information regarding the enclosed information, please do not hesitate to contact me at (281) 986-4416.

Once again, we thank you for your business.

Sincerely,



Rachell Ortiz
Sperry Drilling Services

APR 06 2015

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HALLIBURTON

3950 Interwood South Parkway • Houston, TX 77032

PHONE 281.986.4400 • FAX 281.986.4499

State of New Mexico, Lea County

I, JJ Peters, certify that I am employed by Halliburton Energy Services, Inc. (AKA Sperry Drilling) and that on the dates of January 28, 2015 through February 7, 2015 I did conduct or supervise the taking of MWD Directional surveys for the well Perla Verde 31 State 4H from 10447' MD to 15665' 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 was conducted at the request of XTO for the Perla Verde 31 State 4H well, API No. 30-025-41863-0000 in Lea County, New Mexico. I have reviewed this report and find that it conforms to the principles and procedures as set forth by Halliburton Energy Services, Inc. (AKA Sperry Drilling).



JJ Peters
MWD Field Engineer

**XTO Energy, INC
Perla Verde 31 State 4H
Lea County, NM
Noram 25
API# 30-025-41863**

**HOBBSOCD
APR 06 2015
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January 28, 2015 – February 7, 2015

MO-XX-000901961759

Sperry Drilling Survey Report

**Submitted by JJ Peters
3950 Interwood South Parkway
Houston, TX 77032
Ph: 281.986.4400**

HALLIBURTON

**Drilling and Formation
Evaluation**

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

Survey Report for XTO

Rig : Noram 25
Well Name : Perla Verde 31 State 4H
Field Name : Bone Spring
Country : USA
Job Number : MO-XX-0901961759
Job Start Date : 27-Jan-15
API Number : 30-025-41863-0000

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	0.47	277.22	100.00	0.05 N	0.41 W	0.02	0.47
200.00	0.51	267.45	200.00	0.08 N	1.26 W	0.00	0.09
300.00	0.42	275.80	299.99	0.10 N	2.07 W	-0.03	0.11
400.00	0.50	280.72	399.99	0.22 N	2.86 W	0.03	0.09
500.00	0.29	285.47	499.99	0.37 N	3.53 W	0.14	0.21
600.00	0.20	297.70	599.99	0.52 N	3.93 W	0.26	0.10
700.00	0.24	336.53	699.98	0.79 N	4.17 W	0.52	0.15
800.00	0.36	15.85	799.98	1.28 N	4.17 W	1.01	0.23
900.00	0.48	19.56	899.98	1.98 N	3.94 W	1.72	0.12
1000.00	0.55	16.61	999.98	2.84 N	3.66 W	2.59	0.07
1100.00	0.41	20.80	1,099.97	3.63 N	3.40 W	3.40	0.14
1200.00	0.39	13.04	1,199.97	4.30 N	3.20 W	4.08	0.06
1300.00	0.20	347.14	1,299.97	4.80 N	3.16 W	4.58	0.23
1400.00	0.05	322.17	1,399.97	5.00 N	3.22 W	4.78	0.16
1500.00	0.08	254.75	1,499.97	5.02 N	3.32 W	4.79	0.08
1600.00	0.21	13.40	1,599.97	5.18 N	3.34 W	4.95	0.26
1700.00	0.42	355.47	1,699.97	5.72 N	3.33 W	5.49	0.23
1800.00	0.46	354.04	1,799.96	6.49 N	3.40 W	6.25	0.04
1900.00	0.48	346.44	1,899.96	7.29 N	3.54 W	7.05	0.07
2000.00	0.66	22.32	1,999.96	8.23 N	3.42 W	7.99	0.39
2100.00	1.16	54.10	2,099.94	9.36 N	2.38 W	9.18	0.69
2200.00	1.72	65.97	2,199.91	10.56 N	0.19 W	10.53	0.63
2300.00	1.92	65.30	2,299.86	11.87 N	2.70 E	12.03	0.20
2400.00	1.94	64.40	2,399.80	13.31 N	5.75 E	13.65	0.04
2500.00	1.75	63.54	2,499.75	14.72 N	8.64 E	15.25	0.19
2600.00	1.57	67.27	2,599.71	15.93 N	11.28 E	16.63	0.21
2700.00	1.61	73.40	2,699.67	16.86 N	13.88 E	17.73	0.17
2800.00	1.82	78.22	2,799.63	17.58 N	16.79 E	18.64	0.25
2900.00	2.48	77.16	2,899.56	18.39 N	20.45 E	19.68	0.66
3000.00	3.01	76.43	2,999.44	19.49 N	25.11 E	21.08	0.53
3100.00	2.93	78.12	3,099.31	20.63 N	30.16 E	22.55	0.12
3200.00	2.81	77.99	3,199.18	21.66 N	35.06 E	23.90	0.12
3300.00	2.66	78.79	3,299.07	22.63 N	39.74 E	25.17	0.15
3400.00	2.51	74.00	3,398.97	23.68 N	44.12 E	26.51	0.26
3500.00	2.12	67.58	3,498.88	24.99 N	47.93 E	28.06	0.47
3600.00	1.65	56.41	3,598.83	26.49 N	50.84 E	29.75	0.59
3700.00	1.49	50.60	3,698.79	28.11 N	53.05 E	31.51	0.23
3800.00	1.33	47.46	3,798.76	29.72 N	54.91 E	33.24	0.18
3900.00	1.34	49.55	3,898.74	31.27 N	56.65 E	34.89	0.05
4000.00	1.18	54.11	3,998.71	32.63 N	58.37 E	36.37	0.19
4100.00	1.14	72.15	4,098.69	33.54 N	60.16 E	37.39	0.37

DIRECTIONAL SURVEY DATA

Measured Depth (ft)	Inclination (deg)	Direction (deg)	Vertical Depth (ft)	Latitude (ft)	Departure (ft)	Vertical Section (ft)	Dogleg (°/100')
4200.00	1.12	60.51	4,198.67	34.32 N	61.95 E	38.29	0.23
4300.00	0.90	58.44	4,298.66	35.21 N	63.47 E	39.28	0.22
4400.00	0.41	80.50	4,398.65	35.68 N	64.50 E	39.82	0.54
4500.00	0.33	91.08	4,498.65	35.74 N	65.14 E	39.91	0.10
4600.00	0.38	103.83	4,598.65	35.65 N	65.75 E	39.87	0.09
4700.00	0.26	118.84	4,698.64	35.46 N	66.27 E	39.71	0.15
4800.00	0.10	131.36	4,798.64	35.30 N	66.53 E	39.56	0.16
4900.00	0.14	277.05	4,898.64	35.26 N	66.48 E	39.52	0.23
5000.00	0.20	228.22	4,998.64	35.15 N	66.22 E	39.40	0.15
5100.00	0.28	178.52	5,098.64	34.79 N	66.10 E	39.03	0.21
5200.00	0.16	100.49	5,198.64	34.52 N	66.24 E	38.77	0.29
5300.00	0.22	51.20	5,298.64	34.62 N	66.53 E	38.88	0.17
5400.00	0.21	336.76	5,398.64	34.91 N	66.61 E	39.18	0.26
5500.00	0.18	338.62	5,498.64	35.22 N	66.48 E	39.48	0.03
5600.00	0.60	11.23	5,598.64	35.88 N	66.52 E	40.14	0.46
5700.00	0.77	5.92	5,698.63	37.06 N	66.69 E	41.34	0.18
5800.00	1.05	346.96	5,798.62	38.62 N	66.56 E	42.88	0.41
5900.00	0.95	337.47	5,898.60	40.28 N	66.03 E	44.50	0.19
6000.00	1.10	338.84	5,998.59	41.94 N	65.37 E	46.12	0.15
6100.00	1.04	337.80	6,098.57	43.68 N	64.68 E	47.81	0.06
6200.00	0.90	336.64	6,198.56	45.24 N	64.02 E	49.32	0.14
6300.00	1.06	335.33	6,298.54	46.80 N	63.33 E	50.83	0.16
6400.00	1.07	317.67	6,398.52	48.33 N	62.31 E	52.29	0.33
6500.00	1.22	310.10	6,498.50	49.71 N	60.87 E	53.57	0.21
6600.00	1.28	306.04	6,598.48	51.05 N	59.15 E	54.80	0.11
6700.00	1.05	286.49	6,698.46	51.97 N	57.37 E	55.60	0.46
6800.00	0.89	285.40	6,798.45	52.44 N	55.74 E	55.96	0.16
6900.00	0.47	281.09	6,898.44	52.72 N	54.59 E	56.17	0.42
7000.00	0.20	291.87	6,998.44	52.86 N	54.03 E	56.28	0.28
7100.00	0.22	14.68	7,098.44	53.11 N	53.91 E	56.52	0.28
7200.00	0.22	24.68	7,198.44	53.48 N	54.04 E	56.89	0.04
7300.00	0.27	18.70	7,298.43	53.87 N	54.20 E	57.29	0.06
7400.00	0.26	356.11	7,398.43	54.32 N	54.26 E	57.75	0.10
7500.00	0.28	315.26	7,498.43	54.72 N	54.07 E	58.13	0.19
7600.00	0.26	231.29	7,598.43	54.75 N	53.72 E	58.14	0.36
7700.00	0.67	201.08	7,698.43	54.07 N	53.33 E	57.43	0.46
7800.00	1.13	213.36	7,798.42	52.70 N	52.58 E	56.01	0.50
7900.00	1.29	215.66	7,898.39	50.96 N	51.38 E	54.20	0.17
8000.00	0.96	226.97	7,998.37	49.47 N	50.11 E	52.64	0.40
8100.00	0.69	243.11	8,098.36	48.63 N	48.97 E	51.72	0.35
8200.00	1.09	297.34	8,198.35	48.79 N	47.58 E	51.79	0.89
8300.00	2.18	321.84	8,298.31	50.73 N	45.56 E	53.59	1.27
8400.00	2.59	324.02	8,398.22	54.05 N	43.06 E	56.74	0.42
8500.00	2.87	323.81	8,498.11	57.90 N	40.26 E	60.40	0.28
8600.00	2.96	321.32	8,597.98	61.93 N	37.16 E	64.23	0.16

DIRECTIONAL SURVEY DATA

Measured Depth (ft)	Inclination (deg)	Direction (deg)	Vertical Depth (ft)	Latitude (ft)	Departure (ft)	Vertical Section (ft)	Dogleg (°/100')
8700.00	2.92	314.20	8,697.85	65.73 N	33.72 E	67.79	0.37
8800.00	3.30	315.17	8,797.70	69.54 N	29.87 E	71.34	0.38
8900.00	3.41	287.78	8,897.54	72.49 N	25.01 E	73.97	1.59
9000.00	2.23	286.77	8,997.42	73.96 N	20.31 E	75.13	1.18
9100.00	1.75	276.43	9,097.35	74.69 N	16.93 E	75.64	0.60
9200.00	1.69	282.69	9,197.31	75.19 N	13.98 E	75.94	0.20
9300.00	1.87	274.63	9,297.26	75.64 N	10.91 E	76.20	0.31
9400.00	1.72	264.73	9,397.21	75.64 N	7.79 E	75.99	0.34
9500.00	2.00	269.48	9,497.16	75.49 N	4.55 E	75.62	0.32
9600.00	1.99	273.54	9,597.10	75.58 N	1.07 E	75.49	0.14
9700.00	2.19	276.72	9,697.03	75.91 N	2.56 W	75.58	0.23
9800.00	2.33	272.22	9,796.96	76.21 N	6.49 W	75.62	0.23
9900.00	2.68	257.41	9,896.86	75.78 N	10.80 W	74.91	0.73
10000.00	2.92	249.32	9,996.74	74.37 N	15.46 W	73.20	0.46
10100.00	2.97	260.04	10,096.61	73.02 N	20.40 W	71.54	0.55
10200.00	2.35	259.32	10,196.50	72.19 N	24.96 W	70.41	0.62
10300.00	1.87	246.30	10,296.43	71.16 N	28.47 W	69.15	0.68
10400.00	1.73	247.13	10,396.38	69.92 N	31.36 W	67.72	0.14
10447.00	1.48	243.24	10,443.37	69.37 N	32.55 W	67.10	0.58
10510.00	2.60	347.02	10,506.34	70.39 N	33.60 W	68.05	5.22
10542.00	6.34	346.44	10,538.24	72.82 N	34.18 W	70.44	11.69
10573.00	9.58	349.98	10,568.93	77.03 N	35.03 W	74.58	10.56
10605.00	12.73	349.93	10,600.33	83.12 N	36.11 W	80.59	9.85
10637.00	15.91	353.32	10,631.33	90.95 N	37.24 W	88.33	10.26
10669.00	18.90	356.30	10,661.86	100.48 N	38.09 W	97.78	9.74
10700.00	19.68	354.00	10,691.12	110.68 N	38.95 W	107.91	3.52
10732.00	21.19	355.28	10,721.11	121.80 N	39.99 W	118.94	4.92
10764.00	23.91	357.01	10,750.66	134.05 N	40.81 W	131.10	8.74
10795.00	25.98	357.66	10,778.77	147.10 N	41.41 W	144.09	6.73
10827.00	28.04	356.65	10,807.28	161.61 N	42.14 W	158.52	6.60
10859.00	30.94	357.18	10,835.13	177.34 N	42.98 W	174.16	9.10
10891.00	33.92	0.07	10,862.14	194.49 N	43.38 W	191.25	10.49
10922.00	39.46	0.70	10,886.99	213.00 N	43.25 W	209.73	17.94
10954.00	44.91	0.87	10,910.69	234.48 N	42.95 W	231.18	17.03
10985.00	49.75	2.68	10,931.69	257.26 N	42.23 W	253.95	16.18
11017.00	51.77	6.67	10,951.94	281.95 N	40.20 W	278.72	11.54
11048.00	53.88	10.37	10,970.68	306.36 N	36.53 W	303.33	11.67
11080.00	56.29	10.61	10,988.99	332.16 N	31.75 W	329.38	7.57
11111.00	58.18	10.72	11,005.77	357.78 N	26.93 W	355.26	6.11
11143.00	61.17	10.19	11,021.92	384.94 N	21.92 W	382.69	9.45
11174.00	66.79	9.67	11,035.52	412.37 N	17.12 W	410.37	18.17
11206.00	71.72	9.49	11,046.85	441.87 N	12.14 W	440.13	15.42
11237.00	75.32	8.96	11,055.64	471.20 N	7.38 W	469.72	11.74
11269.00	79.83	7.83	11,062.52	502.11 N	2.82 W	500.86	14.51
11332.00	84.61	7.58	11,071.05	563.95 N	5.55 E	563.11	7.59

DIRECTIONAL SURVEY DATA

Measured Depth (ft)	Inclination (deg)	Direction (deg)	Vertical Depth (ft)	Latitude (ft)	Departure (ft)	Vertical Section (ft)	Dogleg (°/100')
11363.00	84.91	6.89	11,073.88	594.57 N	9.44 E	593.92	2.43
11395.00	85.45	7.34	11,076.57	626.22 N	13.39 E	625.76	2.21
11426.00	85.45	7.46	11,079.03	656.86 N	17.37 E	656.60	0.37
11457.00	85.80	7.21	11,081.39	687.52 N	21.31 E	687.44	1.38
11489.00	86.20	7.14	11,083.62	719.19 N	25.30 E	719.31	1.27
11520.00	86.91	7.38	11,085.49	749.89 N	29.21 E	750.19	2.43
11552.00	87.63	7.54	11,087.01	781.58 N	33.36 E	782.09	2.30
11583.00	87.89	7.55	11,088.22	812.29 N	37.43 E	813.00	0.84
11603.00	88.64	7.59	11,088.82	832.10 N	40.06 E	832.94	3.77
11646.00	89.35	7.52	11,089.58	874.72 N	45.71 E	875.84	1.66
11677.00	90.03	7.42	11,089.74	905.46 N	49.74 E	906.78	2.21
11740.00	90.71	6.49	11,089.34	967.99 N	57.37 E	969.67	1.82
11835.00	91.57	4.69	11,087.44	1,062.52 N	66.62 E	1064.60	2.10
11929.00	90.99	3.24	11,085.34	1,156.27 N	73.12 E	1158.57	1.67
12023.00	92.04	3.16	11,082.86	1,250.09 N	78.37 E	1252.54	1.12
12117.00	91.60	3.17	11,079.88	1,343.90 N	83.56 E	1346.48	0.46
12212.00	90.34	2.79	11,078.27	1,438.75 N	88.50 E	1441.46	1.39
12306.00	89.88	5.00	11,078.09	1,532.53 N	94.88 E	1535.45	2.40
12401.00	91.05	4.39	11,077.32	1,627.20 N	102.65 E	1630.43	1.40
12495.00	91.32	3.37	11,075.37	1,720.97 N	109.01 E	1724.41	1.12
12590.00	89.97	3.76	11,074.30	1,815.77 N	114.93 E	1819.40	1.48
12684.00	88.74	3.16	11,075.36	1,909.59 N	120.60 E	1913.39	1.46
12778.00	90.06	2.81	11,076.34	2,003.46 N	125.49 E	2007.38	1.45
12873.00	92.40	2.81	11,074.30	2,098.32 N	130.14 E	2102.34	2.47
12967.00	92.22	2.15	11,070.50	2,192.15 N	134.21 E	2196.24	0.73
13061.00	93.29	0.97	11,065.98	2,286.01 N	136.76 E	2290.06	1.69
13155.00	96.04	0.99	11,058.33	2,379.67 N	138.37 E	2383.63	2.92
13250.00	96.72	1.29	11,047.78	2,474.06 N	140.25 E	2477.94	0.78
13344.00	95.28	1.85	11,037.96	2,567.51 N	142.81 E	2571.36	1.64
13438.00	93.16	3.16	11,031.04	2,661.16 N	146.91 E	2665.07	2.64
13532.00	92.53	3.37	11,026.37	2,754.89 N	152.25 E	2758.95	0.71
13627.00	91.20	3.16	11,023.27	2,849.68 N	157.66 E	2853.90	1.42
13721.00	91.08	3.29	11,021.40	2,943.52 N	162.94 E	2947.88	0.19
13815.00	89.32	3.11	11,021.07	3,037.37 N	168.18 E	3041.87	1.88
13910.00	90.62	2.27	11,021.12	3,132.26 N	172.64 E	3136.85	1.62
14004.00	91.02	1.87	11,019.78	3,226.19 N	176.04 E	3230.80	0.60
14099.00	92.65	1.85	11,016.74	3,321.08 N	179.13 E	3325.70	1.72
14193.00	92.90	3.07	11,012.19	3,414.89 N	183.16 E	3419.56	1.32
14287.00	91.57	3.47	11,008.52	3,508.66 N	188.51 E	3513.48	1.47
14381.00	93.37	3.26	11,004.47	3,602.41 N	194.03 E	3607.39	1.92
14444.00	91.85	4.39	11,001.61	3,665.20 N	198.22 E	3670.32	3.01
14476.00	92.13	4.90	11,000.50	3,697.07 N	200.81 E	3702.30	1.83
14570.00	92.15	4.42	10,996.99	3,790.70 N	208.45 E	3796.22	0.51
14664.00	91.05	4.39	10,994.36	3,884.38 N	215.67 E	3890.18	1.17
14759.00	92.34	4.35	10,991.54	3,979.06 N	222.90 E	3985.13	1.36

DIRECTIONAL SURVEY DATA

Measured Depth (ft)	Inclination (deg)	Direction (deg)	Vertical Depth (ft)	Latitude (ft)	Departure (ft)	Vertical Section (ft)	Dogleg (°/100')
14853.00	89.74	4.57	10,989.84	4,072.75 N	230.20 E	4079.10	2.78
14947.00	90.12	5.14	10,989.95	4,166.42 N	238.16 E	4173.08	0.74
15042.00	92.10	3.61	10,988.11	4,261.11 N	245.41 E	4268.05	2.63
15136.00	91.26	3.96	10,985.36	4,354.87 N	251.61 E	4362.01	0.97
15231.00	89.78	4.44	10,984.49	4,449.60 N	258.57 E	4457.00	1.63
15325.00	91.39	4.01	10,983.53	4,543.34 N	265.50 E	4550.98	1.76
15419.00	94.06	3.59	10,979.07	4,637.02 N	271.73 E	4644.87	2.88
15513.00	93.76	4.43	10,972.65	4,730.57 N	278.29 E	4738.65	0.94
15608.00	96.34	4.00	10,964.29	4,824.94 N	285.24 E	4833.27	2.74
15665.00	97.54	3.89	10,957.41	4,881.38 N	289.14 E	4889.85	2.13
15722.00	97.54	3.89	10,949.92	4,937.76 N	292.97 E	4946.36	0.00

SURVEY FOOTER

SURVEYS CALCULATED USING SHORT COLLAR METHOD
 TIE-ON SURVEY ASSUMED VERTICAL AT SURFACE
 SURVEYS FROM 100' MD TO 10400' MD PROVIDED BY MULTISHOT DIRECTIONAL SERVICES
 SURVEYS FROM 10447' MD TO 15665' MD PROVIDED BY SPERRY DRILLING SERVICES
 SURVEY AT 15665' MD HAS BEEN PROJECTED TO TD AT 15722' MD
 SPERRY ENGINEERS: JJ PETERS, ROBERT SHINE

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 3.74 degrees (Grid)
- A total correction of 6.85 deg from Magnetic north to Grid north has been applied
- Horizontal displacement is relative to the well head.
- Horizontal displacement (closure) at 15,722.00 feet is 4,946.44 feet along 3.40 degrees (Grid)

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