

HOBBSOCD

Operator: XTO Energy
Well/Lease: Perla Verde 31 State 1H
County: Lea

APR 10 2015

30-025-42063 RECEIVED

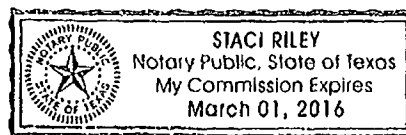
STATE OF NEW MEXICO
DEVIATION REPORT

<u>Footage</u>	<u>Degree</u>
422	0.75
900	0.75
1338	0.25
1880	0.75
2595	0.50
3067	2.25
3350	1.75
3823	1.00
4207	1.25
4542	1.00
5194	0.75
5664	0.75
6099	0.75
6567	0.50
7066	0.75
7536	1.00
7966	0.25
8438	1.50
8625	1.50
9027	3.00
9332	3.00
9772	2.00
10242	1.25
10422	2.09

Signed By: Charles Walsh
Charles Walsh, Division Manager
Pioneer Energy Services

Appeared before me on Jan 9, 2015

Staci Riley
Notary Public



APR 21 2015

HALLIBURTON

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

HOBBSOCD

APR 10 2015

RECEIVED

January 5, 2015

XTO ENERGY

Attn: Stephanie Rabadue
200 N. Loraine Street, Ste 800
Midland, TX 79701

Final Survey for:

Well Name: Perla Verde 31 State 1H
County: Lea County, NM
Rig Name: Pioneer 33
Sperry Job #: 901869163

Stephanie Rabadue

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

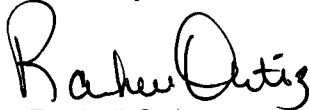
- 0 Survey Report(s)
- 0 MWD End of Well Report(s)
- 2 Certified Letters for New Mexico OCD**

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

HALLIBURTON

3950 Interwood S. Pkwy • Houston, TX 77032

PHONE 281.986.4400 • FAX 281.986.4499

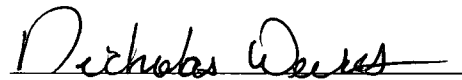
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APR 10 2015

State of New Mexico, Lea County

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I, Nicholas Weeks, certify that I am employed by Halliburton Energy Services, Inc. (AKA Sperry Drilling) and that on the dates of 10-December-2014 through 31- December-2014 I did conduct or supervise the taking of a DGWD-FE Directional survey for the Well Perla Verde 31 State 1H from a depth of 10,422' MD to a depth of 15,418' 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 Energy for the Well Perla Verde 31 State 1H, API No. 30-025-42063-0000 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).



Field Engineer

XTO Energy
Perla Verde 31 State 1H
Lea County, NM
Pioneer 33
API# 30-025-42063-0000

HOBBSOCD

APR 10 2015

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December 10, 2014 – December 31, 2014
MO-XX-0901869163

Sperry Drilling Services MWD Survey Report

Submitted by Nicholas Weeks
3950 Interwood South Parkway
Houston, Texas 77032
Ph: 281.986.4400

HALLIBURTON

**Drilling and Formation
Evaluation**



End of Well Report for XTO Energy, INC

Rig : Pioneer 33
Well Name : Perla Verde 31 State 1H
Field Name : Permian
Country : USA
Job Number : MO-XX-0901869163
Job Start Date : 10-Dec-14
API Number : 30-025-42063



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	0.35	103.83	100.00	0.07 S	0.30 E	-0.08	0.35
200.00	0.37	106.52	200.00	0.24 S	0.90 E	-0.25	0.03
300.00	0.46	117.89	299.99	0.52 S	1.57 E	-0.53	0.12
400.00	0.48	104.76	399.99	0.81 S	2.33 E	-0.83	0.11
500.00	0.47	110.81	499.99	1.06 S	3.12 E	-1.09	0.05
600.00	0.54	106.22	599.98	1.34 S	3.95 E	-1.38	0.08
700.00	0.47	114.14	699.98	1.64 S	4.78 E	-1.68	0.10
800.00	0.36	117.50	799.98	1.95 S	5.43 E	-2.00	0.11
900.00	0.36	130.78	899.98	2.30 S	5.95 E	-2.35	0.08
1000.00	0.26	114.01	999.97	2.60 S	6.39 E	-2.66	0.13
1100.00	0.20	115.38	1,099.97	2.77 S	6.76 E	-2.83	0.06
1200.00	0.37	88.76	1,199.97	2.84 S	7.24 E	-2.90	0.21
1300.00	0.37	88.64	1,299.97	2.82 S	7.88 E	-2.89	0.00
1400.00	0.22	91.53	1,399.97	2.82 S	8.40 E	-2.89	0.15
1500.00	0.13	160.44	1,499.97	2.93 S	8.63 E	-3.01	0.21
1600.00	0.13	233.61	1,599.97	3.11 S	8.57 E	-3.18	0.15
1700.00	0.30	249.79	1,699.97	3.26 S	8.24 E	-3.33	0.18
1800.00	0.16	311.53	1,799.97	3.26 S	7.89 E	-3.33	0.26
1900.00	0.21	72.45	1,899.97	3.11 S	7.96 E	-3.18	0.32
2000.00	0.68	77.62	1,999.96	2.93 S	8.71 E	-3.01	0.47
2100.00	0.73	70.53	2,099.96	2.59 S	9.89 E	-2.68	0.10
2200.00	0.73	70.14	2,199.95	2.16 S	11.09 E	-2.26	0.00
2300.00	0.84	60.20	2,299.94	1.58 S	12.33 E	-1.69	0.17
2400.00	0.80	62.77	2,399.93	0.90 S	13.58 E	-1.01	0.05
2500.00	0.62	38.32	2,499.92	0.15 S	14.54 E	-0.28	0.35
2600.00	0.57	38.37	2,599.92	0.66 N	15.18 E	0.53	0.05
2700.00	0.62	36.46	2,699.91	1.49 N	15.81 E	1.35	0.05
2800.00	0.65	44.88	2,799.90	2.32 N	16.54 E	2.18	0.10
2900.00	1.36	55.83	2,899.89	3.39 N	17.92 E	3.24	0.73
3000.00	2.09	72.18	2,999.84	4.62 N	20.64 E	4.44	0.87
3100.00	2.05	72.22	3,099.78	5.72 N	24.08 E	5.51	0.04
3200.00	1.98	68.90	3,199.72	6.89 N	27.39 E	6.65	0.14
3300.00	1.65	67.85	3,299.66	8.05 N	30.34 E	7.79	0.33
3400.00	1.48	61.71	3,399.63	9.21 N	32.81 E	8.93	0.24
3500.00	1.29	47.55	3,499.60	10.58 N	34.77 E	10.28	0.39
3600.00	0.95	43.86	3,599.58	11.94 N	36.18 E	11.63	0.35
3700.00	0.85	36.36	3,699.57	13.13 N	37.19 E	12.81	0.15
3800.00	0.95	19.92	3,799.55	14.51 N	37.92 E	14.18	0.28
3900.00	0.99	29.33	3,899.54	16.04 N	38.62 E	15.71	0.16
4000.00	1.15	17.82	3,999.52	17.75 N	39.35 E	17.41	0.27
4100.00	1.29	26.08	4,099.50	19.72 N	40.15 E	19.37	0.22



DIRECTIONAL SURVEY DATA

Measured Depth (ft)	Inclination (deg)	Direction (deg)	Vertical Depth (ft)	Latitude (ft)	Departure (ft)	Vertical Section (ft)	Dogleg (°/100')
4200.00	1.10	25.72	4,199.48	21.59 N	41.06 E	21.24	0.19
4300.00	0.96	22.10	4,299.46	23.23 N	41.80 E	22.87	0.15
4400.00	0.73	28.80	4,399.45	24.57 N	42.42 E	24.20	0.25
4500.00	0.90	17.21	4,499.44	25.88 N	42.96 E	25.51	0.24
4600.00	0.75	27.48	4,599.43	27.21 N	43.49 E	26.83	0.21
4700.00	0.52	11.89	4,699.43	28.23 N	43.89 E	27.85	0.29
4800.00	0.37	16.53	4,799.42	28.98 N	44.07 E	28.61	0.15
4900.00	0.57	0.45	4,899.42	29.79 N	44.17 E	29.41	0.24
5000.00	0.53	20.09	4,999.41	30.72 N	44.33 E	30.34	0.19
5100.00	0.63	4.86	5,099.41	31.71 N	44.54 E	31.32	0.18
5200.00	0.66	358.51	5,199.40	32.83 N	44.57 E	32.45	0.08
5300.00	0.84	345.85	5,299.39	34.12 N	44.37 E	33.73	0.24
5400.00	0.77	353.57	5,399.38	35.49 N	44.12 E	35.12	0.13
5500.00	0.91	343.43	5,499.37	36.92 N	43.82 E	36.55	0.20
5600.00	0.79	348.29	5,599.36	38.36 N	43.45 E	37.99	0.14
5700.00	0.79	356.69	5,699.35	39.72 N	43.27 E	39.35	0.12
5800.00	0.68	346.01	5,799.35	40.99 N	43.09 E	40.62	0.18
5900.00	0.52	342.68	5,899.34	42.00 N	42.81 E	41.63	0.16
6000.00	0.58	2.90	5,999.33	42.93 N	42.70 E	42.57	0.20
6100.00	0.57	332.13	6,099.33	43.88 N	42.49 E	43.51	0.31
6200.00	0.46	328.57	6,199.33	44.66 N	42.05 E	44.30	0.11
6300.00	0.43	302.42	6,299.32	45.20 N	41.53 E	44.85	0.20
6400.00	0.37	309.84	6,399.32	45.61 N	40.96 E	45.26	0.08
6500.00	0.61	299.39	6,499.32	46.08 N	40.25 E	45.74	0.26
6600.00	0.31	317.89	6,599.31	46.54 N	39.60 E	46.20	0.33
6700.00	0.61	60.36	6,699.31	47.01 N	39.89 E	46.66	0.74
6800.00	0.61	71.24	6,799.31	47.44 N	40.85 E	47.09	0.12
6900.00	0.83	100.04	6,899.30	47.49 N	42.07 E	47.12	0.42
7000.00	0.63	107.34	6,999.29	47.20 N	43.31 E	46.82	0.22
7100.00	0.60	128.61	7,099.28	46.71 N	44.24 E	46.33	0.23
7200.00	0.88	128.58	7,199.28	45.90 N	45.25 E	45.51	0.28
7300.00	0.63	122.20	7,299.27	45.13 N	46.32 E	44.73	0.26
7400.00	0.71	134.70	7,399.26	44.40 N	47.22 E	43.99	0.17
7500.00	0.72	134.75	7,499.25	43.52 N	48.11 E	43.11	0.01
7600.00	0.87	145.62	7,599.24	42.45 N	48.98 E	42.03	0.21
7700.00	0.79	132.00	7,699.23	41.36 N	49.92 E	40.94	0.21
7800.00	0.23	184.36	7,799.23	40.70 N	50.42 E	40.27	0.67
7900.00	0.10	150.18	7,899.23	40.43 N	50.45 E	39.99	0.16
8000.00	0.26	12.87	7,999.23	40.57 N	50.54 E	40.14	0.34
8100.00	0.34	6.77	8,099.23	41.09 N	50.63 E	40.65	0.09
8200.00	0.56	348.13	8,199.22	41.86 N	50.56 E	41.43	0.26
8300.00	0.77	305.02	8,299.22	42.73 N	49.91 E	42.30	0.53
8400.00	1.33	292.54	8,399.20	43.56 N	48.29 E	43.14	0.60
8500.00	1.20	286.10	8,499.18	44.29 N	46.21 E	43.89	0.19
8600.00	1.36	281.18	8,599.15	44.81 N	44.04 E	44.43	0.19



DIRECTIONAL SURVEY DATA

Measured Depth (ft)	Inclination (deg)	Direction (deg)	Vertical Depth (ft)	Latitude (ft)	Departure (ft)	Vertical Section (ft)	Dogleg (%/100')
8700.00	1.39	284.59	8,699.12	45.35 N	41.70 E	44.99	0.09
8800.00	1.81	273.67	8,799.08	45.75 N	38.95 E	45.42	0.52
8900.00	2.51	277.57	8,899.01	46.14 N	35.21 E	45.84	0.71
9000.00	2.69	272.92	8,998.91	46.55 N	30.69 E	46.29	0.28
9100.00	2.70	277.71	9,098.80	46.99 N	26.02 E	46.76	0.23
9200.00	2.87	275.71	9,198.68	47.55 N	21.19 E	47.37	0.20
9300.00	3.03	282.52	9,298.55	48.37 N	16.12 E	48.23	0.38
9400.00	3.02	282.26	9,398.41	49.51 N	10.97 E	49.41	0.02
9500.00	3.15	287.50	9,498.26	50.89 N	5.77 E	50.84	0.31
9600.00	2.17	274.31	9,598.16	51.86 N	1.26 E	51.85	1.15
9700.00	2.16	278.29	9,698.08	52.27 N	2.49 W	52.29	0.15
9800.00	2.10	269.74	9,798.02	52.54 N	6.19 W	52.59	0.32
9900.00	2.15	262.52	9,897.95	52.29 N	9.88 W	52.37	0.27
10000.00	1.66	254.62	9,997.89	51.66 N	13.14 W	51.77	0.55
10100.00	1.57	256.59	10,097.85	50.95 N	15.86 W	51.09	0.11
10200.00	1.46	268.35	10,197.82	50.60 N	18.47 W	50.76	0.33
10300.00	1.30	260.94	10,297.79	50.39 N	20.86 W	50.56	0.24
10335.00	1.25	258.64	10,332.78	50.25 N	21.63 W	50.43	0.20
10422.00	2.09	293.15	10,419.74	50.69 N	24.02 W	50.89	1.47
10453.00	3.43	4.06	10,450.71	51.83 N	24.48 W	52.04	10.91
10487.00	7.73	15.31	10,484.55	55.05 N	23.80 W	55.26	13.01
10515.00	11.29	19.29	10,512.16	59.46 N	22.40 W	59.65	12.90
10546.00	15.22	20.03	10,542.33	66.15 N	20.00 W	66.32	12.69
10578.00	17.19	22.10	10,573.05	74.48 N	16.78 W	74.62	6.42
10609.00	18.22	15.11	10,602.59	83.40 N	13.80 W	83.51	7.61
10639.00	20.40	8.35	10,630.90	93.10 N	11.81 W	93.20	10.41
10670.00	23.32	5.71	10,659.67	104.56 N	10.42 W	104.64	9.92
10701.00	26.30	3.22	10,687.81	117.52 N	9.42 W	117.60	10.21
10732.00	29.44	0.93	10,715.21	132.00 N	8.91 W	132.07	10.70
10764.00	33.14	359.65	10,742.55	148.62 N	8.84 W	148.69	11.73
10795.00	36.05	359.73	10,768.07	166.22 N	8.93 W	166.29	9.40
10827.00	40.04	0.61	10,793.26	185.93 N	8.87 W	186.00	12.58
10859.00	44.04	1.22	10,817.02	207.35 N	8.52 W	207.42	12.56
10890.00	46.66	1.50	10,838.81	229.40 N	8.00 W	229.46	8.47
10922.00	48.99	1.09	10,860.29	253.10 N	7.46 W	253.16	7.35
10954.00	51.46	359.42	10,880.77	277.69 N	7.36 W	277.74	8.70
10985.00	54.28	357.77	10,899.48	302.39 N	7.97 W	302.45	10.05
11017.00	57.84	357.36	10,917.34	328.91 N	9.10 W	328.98	11.19
11048.00	61.36	357.59	10,933.03	355.62 N	10.28 W	355.70	11.35
11080.00	64.48	358.62	10,947.59	384.09 N	11.21 W	384.18	10.17
11111.00	67.91	359.40	10,960.11	412.45 N	11.70 W	412.53	11.29
11144.00	71.37	0.37	10,971.59	443.38 N	11.76 W	443.46	10.84
11175.00	74.00	1.25	10,980.81	472.97 N	11.34 W	473.05	8.93
11206.00	74.81	1.34	10,989.15	502.82 N	10.66 W	502.89	2.61
11237.00	76.73	1.78	10,996.77	532.86 N	9.84 W	532.92	6.34



DIRECTIONAL SURVEY DATA

Measured Depth (ft)	Inclination (deg)	Direction (deg)	Vertical Depth (ft)	Latitude (ft)	Departure (ft)	Vertical Section (ft)	Dogleg (°/1000)
11269.00	79.29	2.31	11,003.42	564.14 N	8.73 W	564.19	8.16
11301.00	81.76	2.69	11,008.68	595.67 N	7.35 W	595.71	7.83
11333.00	83.93	1.96	11,012.67	627.39 N	6.07 W	627.42	7.15
11364.00	85.38	1.91	11,015.55	658.24 N	5.03 W	658.26	4.65
11396.00	86.31	2.13	11,017.87	690.13 N	3.90 W	690.14	2.99
11428.00	87.63	3.01	11,019.57	722.05 N	2.47 W	722.05	4.95
11459.00	89.48	2.41	11,020.35	753.01 N	1.00 W	752.99	6.28
11552.00	92.11	3.01	11,019.07	845.89 N	3.39 E	845.83	2.90
11649.00	93.21	4.52	11,014.56	942.57 N	9.76 E	942.45	1.93
11681.00	94.20	5.74	11,012.49	974.37 N	12.61 E	974.23	4.89
11713.00	94.33	4.84	11,010.12	1,006.15 N	15.55 E	1005.98	2.85
11741.00	93.89	4.09	11,008.11	1,033.99 N	17.73 E	1033.80	3.08
11803.00	92.16	1.24	11,004.84	1,095.83 N	20.61 E	1095.61	5.37
11834.00	91.79	0.60	11,003.78	1,126.81 N	21.10 E	1126.58	2.40
11864.00	92.49	0.64	11,002.65	1,156.78 N	21.43 E	1156.56	2.36
11927.00	91.88	359.92	11,000.25	1,219.74 N	21.74 E	1219.51	1.50
12020.00	89.57	359.19	10,999.07	1,312.72 N	21.01 E	1312.49	2.61
12114.00	90.37	357.97	10,999.12	1,406.69 N	18.68 E	1406.48	1.56
12145.00	89.04	357.45	10,999.28	1,437.66 N	17.44 E	1437.46	4.59
12208.00	89.78	356.97	10,999.93	1,500.58 N	14.37 E	1500.40	1.40
12240.00	90.59	357.26	10,999.82	1,532.54 N	12.76 E	1532.38	2.66
12304.00	90.06	357.36	10,999.46	1,596.47 N	9.75 E	1596.33	0.84
12398.00	91.32	357.90	10,998.33	1,690.38 N	5.87 E	1690.27	1.46
12492.00	91.08	358.32	10,996.35	1,784.31 N	2.78 E	1784.22	0.51
12587.00	89.42	357.72	10,995.94	1,879.25 N	0.51 W	1879.18	1.86
12650.00	90.59	357.75	10,995.94	1,942.20 N	3.00 W	1942.15	1.86
12681.00	91.51	357.97	10,995.38	1,973.17 N	4.16 W	1973.13	3.06
12774.00	89.48	358.28	10,994.58	2,066.11 N	7.20 W	2066.10	2.21
12868.00	91.79	358.54	10,993.54	2,160.06 N	9.81 W	2160.07	2.47
12961.00	90.15	359.77	10,991.96	2,253.03 N	11.19 W	2253.05	2.20
13054.00	90.31	359.64	10,991.59	2,346.03 N	11.68 W	2346.05	0.22
13141.00	91.66	359.91	10,990.09	2,433.02 N	12.02 W	2433.03	1.59
13235.00	91.64	0.06	10,987.39	2,526.98 N	12.05 W	2526.99	0.17
13328.00	91.14	0.58	10,985.13	2,619.95 N	11.53 W	2619.95	0.77
13422.00	89.91	0.84	10,984.27	2,713.94 N	10.36 W	2713.92	1.34
13516.00	90.43	0.50	10,983.99	2,807.93 N	9.26 W	2807.90	0.66
13609.00	90.37	359.21	10,983.34	2,900.92 N	9.49 W	2900.90	1.39
13703.00	89.85	358.52	10,983.17	2,994.90 N	11.35 W	2994.89	0.92
13796.00	91.91	358.07	10,981.74	3,087.85 N	14.11 W	3087.85	2.27
13889.00	92.09	358.39	10,978.49	3,180.75 N	16.98 W	3180.77	0.39
13983.00	91.36	359.00	10,975.66	3,274.68 N	19.13 W	3274.72	1.02
14012.00	91.70	358.44	10,974.89	3,303.66 N	19.77 W	3303.71	2.26
14104.00	91.26	358.13	10,972.51	3,395.59 N	22.53 W	3395.66	0.58
14197.00	87.48	358.82	10,973.54	3,488.53 N	25.01 W	3488.62	4.14
14291.00	88.05	0.41	10,977.20	3,582.45 N	25.65 W	3582.54	1.80

**DIRECTIONAL SURVEY DATA**

Measured Depth (ft)	Inclination (deg)	Direction (deg)	Vertical Depth (ft)	Latitude (ft)	Departure (ft)	Vertical Section (ft)	Dogleg (°/100')
14387.00	90.28	1.26	10,978.60	3,678.43 N	24.25 W	3678.50	2.48
14481.00	90.78	0.15	10,977.73	3,772.41 N	23.09 W	3772.47	1.30
14574.00	90.40	0.08	10,976.78	3,865.41 N	22.91 W	3865.46	0.41
14668.00	91.30	0.31	10,975.38	3,959.40 N	22.59 W	3959.44	0.98
14763.00	91.23	0.71	10,973.29	4,054.37 N	21.75 W	4054.41	0.42
14854.00	90.00	0.75	10,972.31	4,145.36 N	20.59 W	4145.38	1.35
14947.00	87.13	359.64	10,974.64	4,238.31 N	20.27 W	4238.33	3.31
15137.00	87.60	359.36	10,983.38	4,428.11 N	21.94 W	4428.13	0.29
15230.00	87.87	359.45	10,987.06	4,521.03 N	22.91 W	4521.06	0.31
15324.00	87.72	359.19	10,990.67	4,614.95 N	24.03 W	4614.99	0.32
15418.00	88.49	359.16	10,993.78	4,708.89 N	25.39 W	4708.93	0.82
15536.00	88.49	359.16	10,996.89	4,826.84 N	27.12 W	4826.89	0.00

SURVEY FOOTER

SURVEYS CALCULATED USING SHORT COLLAR METHOD

WELL ASSUMED VERTICAL AT SURFACE

SURVEYS AT 100' MD TO 10,335' MD PROVIDED BY MULTI-SHOT TM SURVEY SERVICES

SURVEYS AT 10,422' MD TO 15418' MD PROVIDED BY SPERRY DRILLING

SURVEY AT 15,418' MD HAS BEEN PROJECTED TO TD AT 15,536' MD

SPERRY DRILLING ENGINEERS: P.COWAN, N. WEEKS

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 359.51 degrees (Grid)
- A total correction of 6.88 deg from Magnetic north to Grid north has been applied
- Horizontal displacement is relative to the well head.
- Horizontal displacement (closure) at 15,536.00 feet is 4,826.91 feet along 359.68 degrees (Grid)

WARRANTY

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