



April 2, 2020

New Mexico Energy, Minerals and Natural Resources Department
Attn: Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505

Attn: Jared Bouzek

Re: XTO Energy Inc.
Poker Lake Unit 29 BS #121H
Wildcat Big Sink; Bone Spring
Eddy County, New Mexico
API# 30-015-45935

Enclosed please find the original and one (1) copy of the survey performed on the reference well by STRYKER ENERGY DIRECTIONAL SERVICES, LLC. (P-5 #828149) Other information required by your office is as follows:

<u>Name & Title</u>	<u>Drainhole No.</u>	<u>Survey Depths</u>	<u>Dates Performed</u>	<u>Type Survey</u>
Clifford Bray	Original Hole	208ft. to 19,242ft.	12-29-19 to 01-13-20	MWD Survey

A certified plat on which the bottom-hole location is oriented to both surface location and to the lease lines (or unit lines in case of pooling) is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.

A handwritten signature in blue ink, appearing to read "Eric Estes", is written over a horizontal line.

Eric Estes

Enclosures
CC:

XTO Energy Inc.
Attn: Jared Bouzek
6401 Holiday Hill Rd. #5
Midland, Texas 79707

RRC\ XTO Energy Inc.\PLU 29 BS #121H\MM191235

STRYKER ENERGY DIRECTIONAL SERVICES, LLC.
P.O. Box 1250
Montgomery, TX 77356
Office (936) 582-7296 * Fax (936)-588-4163



April 2, 2020

Survey Certification Report

STATE OF TEXAS

COUNTY OF Montgomery

I, Eric Estes, certify that I am employed by STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C., and that I did on the day(s) of December 29, 2019 through January 13, 2020, conduct or supervise the taking of a SEDS MWD Original Hole Survey from a depth of 208feet to a depth of 19,242feet; that I am authorized and qualified to make this report; that this survey was conducted at the request of XTO Energy Inc., for the Poker Lake Unit 29 BS #121H well, API #30-015-45935 in Eddy County, New Mexico; and that I have reviewed this report and find that it conforms to the principles as set forth by STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C..

A handwritten signature in blue ink, appearing to read "Eric Estes", is written over a horizontal line.

Eric Estes

STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C.

STRYKER ENERGY DIRECTIONAL SERVICES, LLC.
P.O. Box 1250
Montgomery, TX 77356
Office (936) 582-7296 * Fax (936)-588-4163

Company: XTO Energy
Project: Eddy County, NM (NAD27) NMEZ Grid
Site: PLU 29 BS
Well: 121H
Wellbore: 121H Lateral
Design: 121H Lateral AsDrilled

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Database:

Well 121H - Slot PLU29 BS 121H SHL
3364+25 @ 3389.00usft (T E101)
3364+25 @ 3389.00usft (T E101)
Grid
Minimum Curvature
STRYKER_EDM

Survey Program		Date	02/24/20										
From (usft)	To (usft)	Survey (Wellbore)		Tool Name		Description							
208.00	10,937.00	Survey #1 (121H Lateral)	MWD	OWSG MWD - Standard									
10,983.00	19,242.00	Survey #2 (121H Lateral)	MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-Station Correction									
19,295.00	19,295.00	Survey #3 (121H Lateral)	Projection	Projection									
Survey													
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	DLeg (°/100ft)	Northing (usft)	Easting (usft)			
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	401,257.40	663,205.10			
PLU29 BS 121H SHL													
208.00	0.04	328.68	208.00	0.06	-0.04	0.07	328.68	0.02	401,257.46	663,205.06			
303.00	0.04	238.50	303.00	0.07	-0.08	0.11	311.26	0.06	401,257.47	663,205.02			
394.00	0.75	209.59	394.00	-0.46	-0.40	0.81	221.23	0.79	401,256.94	663,204.70			
486.00	0.18	198.86	485.99	-1.12	-0.75	1.35	213.71	0.82	401,256.28	663,204.35			
578.00	0.40	145.43	577.99	-1.52	-0.61	1.64	201.92	0.35	401,255.88	663,204.49			
671.00	0.31	168.45	670.99	-2.04	-0.38	2.07	190.52	0.18	401,255.36	663,204.72			
763.00	0.62	131.98	762.99	-2.61	0.04	2.61	179.09	0.45	401,254.79	663,205.14			
855.00	0.44	94.01	854.98	-2.97	0.76	3.07	165.58	0.42	401,254.43	663,205.86			
946.00	0.88	41.54	945.98	-2.47	1.58	2.93	147.49	0.77	401,254.93	663,206.68			
986.00	0.88	70.72	985.97	-2.14	2.07	2.98	135.98	1.11	401,255.26	663,207.17			
1,063.00	0.84	57.89	1,062.97	-1.65	3.11	3.51	117.92	0.25	401,255.75	663,208.21			
1,155.00	0.97	61.58	1,154.95	-0.92	4.36	4.46	101.87	0.15	401,256.48	663,209.46			
1,247.00	1.01	59.38	1,246.94	-0.13	5.74	5.75	91.33	0.06	401,257.27	663,210.84			
1,339.00	1.19	55.78	1,338.92	0.82	7.23	7.28	83.56	0.21	401,258.22	663,212.33			
1,430.00	0.88	66.24	1,429.91	1.63	8.65	8.81	79.33	0.40	401,259.03	663,213.75			
1,522.00	0.26	79.60	1,521.90	1.95	9.51	9.70	78.39	0.68	401,259.35	663,214.61			
1,614.00	0.09	239.56	1,613.90	1.95	9.65	9.84	78.56	0.38	401,259.35	663,214.75			
1,706.00	0.88	243.69	1,705.90	1.60	8.95	9.09	79.85	0.86	401,259.00	663,214.05			
1,798.00	1.27	246.41	1,797.88	0.88	7.38	7.44	83.19	0.43	401,258.28	663,212.48			

Survey Report Landscape

Company: XTO Energy
 Project: Eddy County, NM (NAD27) NMEZ Grid
 Site: PLU 29 BS
 Well: 121H
 Wellbore: 121H Lateral
 Design: 121H Lateral AsDrilled

Local Co-ordinate Reference:
 TVD Reference:
 MID Reference:
 North Reference:
 Survey Calculation Method:
 Database:

Well 121H - Slot PLU29 BS 121H SHL
 3364+25 @ 3389.00usft (T E101)
 3364+25 @ 3389.00usft (T E101)
 Grid
 Minimum Curvature
 STRYKER_EDM

Survey	MID (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	DLeg (°/100ft)	Northing (usft)	Easting (usft)
	1,891.00	1.41	241.40	1,890.86	-0.08	5.44	5.44	90.82	0.20	401,257.32	663,210.54
	1,982.00	1.63	244.30	1,981.83	-1.18	3.29	3.49	109.67	0.26	401,256.22	663,208.39
	2,074.00	1.54	230.77	2,073.79	-2.52	1.15	2.77	155.51	0.42	401,254.88	663,206.25
	2,167.00	0.75	188.32	2,166.77	-3.92	0.09	3.92	178.63	1.19	401,253.48	663,205.19
	2,259.00	0.92	179.00	2,258.76	-5.25	0.02	5.25	179.79	0.24	401,252.15	663,205.12
	2,351.00	0.79	179.44	2,350.75	-6.62	0.04	6.62	179.67	0.14	401,250.78	663,205.14
	2,443.00	0.92	195.79	2,442.74	-7.97	-0.16	7.97	181.12	0.30	401,249.43	663,204.94
	2,536.00	1.14	191.39	2,535.73	-9.59	-0.54	9.61	183.23	0.25	401,247.81	663,204.56
	2,628.00	1.32	187.61	2,627.71	-11.54	-0.86	11.57	184.28	0.21	401,245.86	663,204.24
	2,721.00	1.41	208.88	2,720.68	-13.61	-1.56	13.69	186.53	0.55	401,243.79	663,203.54
	2,813.00	1.54	205.98	2,812.65	-15.71	-2.65	15.93	189.56	0.16	401,241.69	663,202.45
	2,905.00	1.01	223.91	2,904.63	-17.40	-3.75	17.80	192.16	0.71	401,240.00	663,201.35
	2,995.00	0.48	343.00	2,994.62	-17.61	-4.41	18.16	194.06	1.46	401,239.79	663,200.69
	3,087.00	0.70	354.78	3,086.62	-16.69	-4.57	17.30	195.33	0.27	401,240.71	663,200.53
	3,180.00	0.88	357.33	3,179.61	-15.41	-4.66	16.10	196.82	0.20	401,241.99	663,200.44
	3,272.00	0.84	342.21	3,271.60	-14.06	-4.90	14.89	199.21	0.25	401,243.34	663,200.20
	3,362.00	0.84	324.72	3,361.59	-12.89	-5.48	14.01	203.03	0.28	401,244.51	663,199.62
	3,455.00	1.01	321.73	3,454.58	-11.69	-6.38	13.32	208.63	0.19	401,245.71	663,198.72
	3,547.00	0.44	68.35	3,546.57	-10.93	-6.56	12.74	210.97	1.32	401,246.47	663,198.54
	3,639.00	1.58	118.35	3,638.56	-11.40	-5.11	12.49	204.15	1.46	401,246.00	663,199.99
	3,732.00	1.85	130.92	3,731.52	-12.99	-2.85	13.30	192.37	0.50	401,244.41	663,202.25
	3,824.00	3.12	137.43	3,823.43	-15.81	-0.03	15.81	180.12	1.41	401,241.59	663,205.07
	3,916.00	4.66	141.21	3,915.21	-20.56	4.00	20.95	168.98	1.70	401,236.84	663,209.10
	4,055.00	3.65	153.86	4,053.85	-28.94	9.49	30.45	161.84	0.98	401,228.46	663,214.59
	4,179.00	2.81	169.86	4,177.65	-35.47	11.76	37.37	161.65	0.99	401,221.93	663,216.86
	4,269.00	2.55	171.09	4,267.55	-39.62	12.46	41.54	162.54	0.30	401,217.78	663,217.56
	4,361.00	2.37	179.53	4,359.47	-43.55	12.79	45.39	163.63	0.44	401,213.85	663,217.89

Survey Report Landscape

Company: XTO Energy
Project: Eddy County, NM (NAD27) NMEZ Grid
Site: PLU 29 BS
Well: 121H
Wellbore: 121H Lateral
Design: 121H Lateral AsDrilled

Local Co-ordinate Reference: Well 121H - Slot PLU29 BS 121H SHL
TVD Reference: 3364+25 @ 3389.00usft (T E101)
MD Reference: 3364+25 @ 3389.00usft (T E101)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: STRYKER_EDM

Survey	MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	DLeg (°/100ft)	Northing (usft)	Easting (usft)
	4,453.00	1.14	176.27	4,451.43	-46.36	12.87	48.11	164.49	1.34	401,211.04	663,217.97
	4,546.00	1.01	172.06	4,544.41	-48.10	13.04	49.83	164.83	0.16	401,209.30	663,218.14
	4,638.00	1.19	173.55	4,636.39	-49.85	13.26	51.58	165.10	0.20	401,207.55	663,218.36
	4,729.00	1.10	149.12	4,727.37	-51.54	13.82	53.36	164.99	0.54	401,205.86	663,218.92
	4,821.00	1.54	131.01	4,819.35	-53.11	15.20	55.24	164.02	0.65	401,204.29	663,220.30
	4,913.00	1.58	129.78	4,911.32	-54.73	17.11	57.34	162.64	0.06	401,202.67	663,222.21
	5,002.00	1.49	127.76	5,000.28	-56.22	18.97	59.34	161.36	0.12	401,201.18	663,224.07
	5,095.00	1.58	123.63	5,093.25	-57.67	20.99	61.37	160.00	0.15	401,199.73	663,226.09
	5,186.00	1.54	130.66	5,184.22	-59.16	22.96	63.47	158.79	0.21	401,198.24	663,228.06
	5,277.00	1.41	127.06	5,275.19	-60.64	24.79	65.51	157.77	0.18	401,196.76	663,229.89
	5,367.00	1.41	119.50	5,365.16	-61.85	26.63	67.34	156.70	0.21	401,195.55	663,231.73
	5,459.00	2.37	123.45	5,457.11	-63.45	29.20	69.85	155.29	1.05	401,193.95	663,234.30
	5,551.00	2.99	123.54	5,549.01	-65.83	32.79	73.54	153.52	0.67	401,191.57	663,237.89
	5,644.00	2.73	122.49	5,641.89	-68.36	36.68	77.58	151.78	0.29	401,189.04	663,241.78
	5,736.00	2.42	119.50	5,733.80	-70.49	40.22	81.16	150.29	0.37	401,186.91	663,245.32
	5,829.00	2.29	120.90	5,826.72	-72.41	43.52	84.49	148.99	0.15	401,184.99	663,248.62
	5,921.00	2.20	121.52	5,918.65	-74.28	46.61	87.69	147.89	0.10	401,183.12	663,251.71
	6,012.00	2.11	125.30	6,009.59	-76.16	49.46	90.81	147.00	0.18	401,181.24	663,254.56
	6,105.00	2.24	128.64	6,102.52	-78.29	52.28	94.14	146.27	0.20	401,179.11	663,257.38
	6,197.00	2.37	131.80	6,194.44	-80.68	55.10	97.70	145.67	0.20	401,176.72	663,260.20
	6,289.00	2.33	128.90	6,286.37	-83.12	57.97	101.34	145.10	0.14	401,174.28	663,263.07
	6,379.00	2.29	128.20	6,376.29	-85.38	60.81	104.82	144.54	0.05	401,172.02	663,265.91
	6,470.00	2.02	135.32	6,467.23	-87.64	63.37	108.15	144.13	0.42	401,169.76	663,268.47
	6,561.00	1.80	134.88	6,558.18	-89.79	65.51	111.15	143.89	0.24	401,167.61	663,270.61
	6,651.00	1.67	151.49	6,648.14	-91.94	67.14	113.85	143.86	0.57	401,165.46	663,272.24
	6,743.00	1.89	139.98	6,740.09	-94.28	68.75	116.69	143.90	0.46	401,163.12	663,273.85
	6,834.00	2.07	137.95	6,831.04	-96.65	70.82	119.82	143.77	0.21	401,160.75	663,275.92

Survey Report Landscape

Company: XTO Energy
Project: Eddy County, NM (NAD27) NMEZ Grid
Site: PLU 29 BS
Well: 121H
Wellbore: 121H Lateral
Design: 121H Lateral AsDrilled

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Database:

Well 121H - Slot PLU29 BS 121H SHL
 3364+25 @ 3389.00usft (T E101)
 3364+25 @ 3389.00usft (T E101)
 Grid
 Minimum Curvature
 STRYKER_EDM

Survey	MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	DLeg (°/100ft)	Northing (usft)	Easting (usft)
	6,925.00	2.15	146.13	6,921.98	-99.29	72.87	123.16	143.72	0.34	401,158.11	663,277.97
	7,015.00	1.98	153.25	7,011.92	-102.08	74.51	126.38	143.87	0.34	401,155.32	663,279.61
	7,106.00	1.98	158.17	7,102.86	-104.94	75.80	129.46	144.16	0.19	401,152.46	663,280.90
	7,197.00	1.89	157.20	7,193.81	-107.79	76.97	132.45	144.47	0.11	401,149.61	663,282.07
	7,289.00	2.07	155.88	7,285.76	-110.70	78.24	135.56	144.75	0.20	401,146.70	663,283.34
	7,381.00	1.85	156.59	7,377.70	-113.58	79.50	138.64	145.01	0.24	401,143.82	663,284.60
	7,473.00	1.23	138.75	7,469.67	-115.69	80.75	141.08	145.09	0.84	401,141.71	663,285.85
	7,565.00	1.36	144.55	7,561.65	-117.32	82.03	143.15	145.04	0.20	401,140.08	663,287.13
	7,657.00	1.54	141.65	7,653.62	-119.18	83.43	145.48	145.01	0.21	401,138.22	663,288.53
	7,749.00	1.63	143.84	7,745.58	-121.20	84.97	148.02	144.97	0.12	401,136.20	663,290.07
	7,842.00	1.63	150.79	7,838.55	-123.42	86.39	150.66	145.01	0.21	401,133.98	663,291.49
	7,934.00	1.19	125.12	7,930.52	-125.12	87.81	152.86	144.94	0.83	401,132.28	663,292.91
	8,024.00	1.01	101.39	8,020.50	-125.81	89.36	154.31	144.62	0.54	401,131.59	663,294.46
	8,115.00	0.88	105.70	8,111.49	-126.16	90.82	155.45	144.25	0.16	401,131.24	663,295.92
	8,207.00	0.57	91.72	8,203.48	-126.36	91.95	156.28	143.96	0.39	401,131.04	663,297.05
	8,298.00	0.40	107.28	8,294.48	-126.47	92.71	156.81	143.76	0.23	401,130.93	663,297.81
	8,390.00	0.53	12.62	8,386.48	-126.15	93.11	156.79	143.57	0.75	401,131.25	663,298.21
	8,482.00	0.57	53.05	8,478.47	-125.46	93.57	156.51	143.28	0.42	401,131.94	663,298.67
	8,574.00	0.48	33.80	8,570.47	-124.87	94.15	156.38	142.98	0.21	401,132.53	663,299.25
	8,666.00	0.22	92.69	8,662.47	-124.55	94.54	156.37	142.80	0.45	401,132.85	663,299.64
	8,757.00	0.22	283.41	8,753.47	-124.52	94.54	156.35	142.79	0.48	401,132.88	663,299.64
	8,849.00	0.62	238.41	8,845.47	-124.74	93.95	156.16	143.02	0.53	401,132.66	663,299.05
	8,939.00	0.48	214.42	8,935.46	-125.31	93.32	156.24	143.32	0.30	401,132.09	663,298.42
	9,028.00	0.40	255.38	9,024.46	-125.69	92.81	156.24	143.56	0.36	401,131.71	663,297.91
	9,117.00	0.40	275.15	9,113.46	-125.74	92.20	155.92	143.75	0.15	401,131.66	663,297.30
	9,207.00	0.66	263.20	9,203.45	-125.78	91.37	155.46	144.00	0.31	401,131.62	663,296.47
	9,299.00	0.84	254.50	9,295.44	-126.02	90.19	154.97	144.41	0.23	401,131.38	663,295.29

Survey Report Landscape

Company: XTO Energy
Project: Eddy County, NM (NAD27) NMEZ Grid
Site: PLU 29 BS
Well: 121H
Wellbore: 121H Lateral
Design: 121H Lateral As Drilled

Local Co-ordinate Reference:
TVD Reference:
MID Reference:
North Reference:
Survey Calculation Method:
Database:

Well 121H - Slot PLU29 BS 121H SHL
 3364+25 @ 3389.00usft (T E101)
 3364+25 @ 3389.00usft (T E101)
 Grid
 Minimum Curvature
 STRYKER_EDM

Survey	MID (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	DLeg (°/100ft)	Northing (usft)	Easting (usft)
	9,391.00	0.18	306.97	9,387.44	-126.11	89.43	154.60	144.66	0.81	401,131.29	663,294.53
	9,482.00	0.44	229.01	9,478.44	-126.26	89.05	154.50	144.80	0.48	401,131.14	663,294.15
	9,575.00	0.48	258.89	9,571.44	-126.57	88.40	154.38	145.07	0.26	401,130.83	663,293.50
	9,667.00	0.31	151.75	9,663.44	-126.86	88.14	154.47	145.21	0.70	401,130.54	663,293.24
	9,759.00	1.58	97.35	9,755.42	-127.24	89.51	155.57	144.87	1.55	401,130.16	663,294.61
	9,850.00	1.27	81.09	9,846.39	-127.24	91.76	156.88	144.20	0.56	401,130.16	663,296.86
	9,940.00	0.48	97.09	9,936.38	-127.14	93.11	157.59	143.78	0.91	401,130.26	663,298.21
	10,031.00	0.31	191.04	10,027.38	-127.43	93.45	158.02	143.75	0.65	401,129.97	663,298.55
	10,124.00	0.62	180.14	10,120.38	-128.18	93.40	158.59	143.92	0.35	401,129.22	663,298.50
	10,216.00	1.05	173.02	10,212.37	-129.51	93.50	159.73	144.17	0.48	401,127.89	663,298.60
	10,307.00	1.67	164.15	10,303.34	-131.61	93.96	161.71	144.48	0.72	401,125.79	663,299.06
	10,395.00	1.63	193.24	10,391.31	-134.06	94.02	163.75	144.96	0.94	401,123.34	663,299.12
	10,486.00	1.45	199.21	10,482.27	-136.41	93.35	165.29	145.62	0.26	401,120.99	663,298.45
	10,576.00	0.70	269.00	10,572.26	-137.50	92.43	165.67	146.09	1.53	401,119.90	663,297.53
	10,667.00	0.75	270.93	10,663.25	-137.50	91.27	165.03	146.42	0.06	401,119.90	663,296.37
	10,757.00	0.97	268.82	10,753.24	-137.50	89.92	164.30	146.82	0.25	401,119.90	663,295.02
	10,841.00	0.92	289.04	10,837.23	-137.30	88.57	163.39	147.17	0.40	401,120.10	663,293.67
	10,891.00	1.18	289.39	10,887.22	-137.00	87.71	162.67	147.37	0.52	401,120.40	663,292.81
	10,937.00	2.43	209.87	10,933.21	-137.68	86.78	162.75	147.78	5.44	401,119.72	663,291.88
	10,983.00	6.46	181.87	10,979.06	-141.12	86.21	165.37	148.58	9.70	401,116.28	663,291.31
	11,029.00	9.31	179.36	11,024.62	-147.43	86.16	170.76	149.70	6.24	401,109.97	663,291.26
	11,074.00	13.62	178.93	11,068.71	-156.37	86.30	178.60	151.10	9.58	401,101.03	663,291.40
	11,120.00	16.94	179.48	11,113.08	-168.49	86.47	189.38	152.83	7.22	401,088.91	663,291.57
	11,164.00	19.74	178.99	11,154.84	-182.33	86.65	201.87	154.58	6.37	401,075.07	663,291.75
	11,210.00	21.07	177.63	11,197.96	-198.36	87.13	216.65	156.29	3.07	401,059.04	663,292.23
	11,255.00	23.64	178.84	11,239.57	-215.46	87.65	232.61	157.86	5.80	401,041.94	663,292.75
	11,300.00	26.93	180.56	11,280.25	-234.68	87.73	250.54	159.50	7.49	401,022.72	663,292.83

Survey Report Landscape

Company: XTO Energy
 Project: Eddy County, NM (NAD27) NMEZ Grid
 Site: PLU 29 BS
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 Wellbore: 121H Lateral
 Design: 121H Lateral As Drilled

Local Co-ordinate Reference:
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 MD Reference:
 North Reference:
 Survey Calculation Method:
 Database:

Well 121H - Slot PLU29 BS 121H SHL
 3364+25 @ 3389.00usft (T E101)
 3364+25 @ 3389.00usft (T E101)
 Grid
 Minimum Curvature
 STRYKER_EDM

Survey	MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	D Leg (°/100ft)	Northing (usft)	Easting (usft)
	11,346.00	31.25	180.34	11,320.44	-257.04	87.56	271.54	161.19	9.39	401,000.36	663,292.66
	11,392.00	36.28	179.78	11,358.67	-282.60	87.54	295.85	162.79	10.96	400,974.80	663,292.64
	11,436.00	41.55	180.06	11,392.89	-310.23	87.58	322.35	164.24	11.98	400,947.17	663,292.68
	11,482.00	46.81	180.12	11,425.87	-342.27	87.53	353.29	165.66	11.44	400,915.13	663,292.63
	11,484.00	47.05	180.09	11,427.24	-343.73	87.52	354.70	165.71	12.08	400,913.67	663,292.62
Wellpath Crosses Lease Line @ heel											
	11,528.00	52.35	179.56	11,455.69	-377.28	87.63	387.32	166.92	12.08	400,880.12	663,292.73
	11,573.00	56.18	177.82	11,481.96	-413.79	88.48	423.14	167.93	9.07	400,843.61	663,293.58
	11,619.00	60.96	178.08	11,505.94	-453.00	89.88	461.83	168.78	10.40	400,804.40	663,294.98
	11,665.00	65.60	179.77	11,526.62	-494.07	90.64	502.31	169.60	10.61	400,763.33	663,295.74
	11,710.00	69.27	179.48	11,543.89	-535.62	90.91	543.28	170.37	8.18	400,721.78	663,296.01
	11,756.00	74.51	179.54	11,558.18	-579.32	91.29	586.47	171.05	11.39	400,678.08	663,296.39
	11,795.03	80.00	179.24	11,566.79	-617.37	91.69	624.14	171.55	14.09	400,640.03	663,296.79
Wellpath is @ 80°											
	11,801.00	80.84	179.20	11,567.78	-623.26	91.77	629.98	171.62	14.09	400,634.14	663,296.87
	11,812.00	82.90	179.19	11,569.34	-634.15	91.92	640.77	171.75	18.73	400,623.25	663,297.02
	11,867.00	85.04	179.47	11,575.11	-688.84	92.56	695.03	172.35	3.93	400,568.56	663,297.66
Wellpath Crosses FTP											
	11,867.48	85.06	179.47	11,575.16	-689.32	92.57	695.50	172.35	3.93	400,568.08	663,297.67
PLU29 BS 121H LP p2											
	11,867.74	85.07	179.48	11,575.18	-689.58	92.57	695.76	172.35	3.93	400,567.82	663,297.67
PLU29 BS 121H FTP_346FNL_576FEL											
	11,906.00	86.56	179.67	11,577.97	-727.73	92.85	733.63	172.73	3.93	400,529.67	663,297.95
	12,000.00	90.48	180.14	11,580.40	-821.68	93.01	826.93	173.54	4.20	400,435.72	663,298.11
	12,094.00	89.47	180.95	11,580.44	-915.67	92.11	920.29	174.26	1.38	400,341.73	663,297.21
	12,188.00	91.06	179.81	11,580.00	-1,009.66	91.49	1,013.80	174.82	2.08	400,247.74	663,296.59
	12,281.00	90.84	181.09	11,578.46	-1,102.65	90.76	1,106.38	175.29	1.40	400,154.75	663,295.86
	12,375.00	90.59	181.26	11,577.29	-1,196.62	88.83	1,199.91	175.75	0.32	400,060.78	663,293.93

Survey Report Landscape

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Site: PLU 29 BS
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Design: 121H Lateral As Drilled

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Database:

Well 121H - Slot PLU29 BS 121H SHL
 3364+25 @ 3389.00usft (T E101)
 3364+25 @ 3389.00usft (T E101)
 Grid
 Minimum Curvature
 STRYKER_EDM

Survey	MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	DLeg (°/100ft)	Northing (usft)	Easting (usft)
	12,470.00	89.69	180.66	11,577.06	-1,291.60	87.24	1,294.55	176.14	1.14	399,965.80	663,292.34
	12,564.00	88.49	179.89	11,578.55	-1,385.59	86.79	1,388.30	176.42	1.52	399,871.81	663,291.89
	12,658.00	90.98	179.75	11,578.98	-1,479.58	87.09	1,482.14	176.63	2.65	399,777.82	663,292.19
	12,752.00	90.81	180.04	11,577.52	-1,573.57	87.26	1,575.99	176.83	0.36	399,683.83	663,292.36
	12,846.00	89.02	177.04	11,577.66	-1,667.52	89.65	1,669.93	176.92	3.72	399,589.88	663,294.75
	12,940.00	90.70	177.82	11,577.89	-1,761.42	93.87	1,763.92	176.95	1.97	399,495.98	663,298.97
	13,034.00	92.55	179.58	11,575.22	-1,855.35	96.00	1,857.84	177.04	2.72	399,402.05	663,301.10
	13,128.00	92.04	178.51	11,571.46	-1,949.26	97.57	1,951.70	177.13	1.26	399,308.14	663,302.67
	13,222.00	91.71	177.74	11,568.38	-2,043.16	100.64	2,045.64	177.18	0.89	399,214.24	663,305.74
	13,315.00	92.44	181.31	11,565.01	-2,136.08	101.41	2,138.49	177.28	3.92	399,121.32	663,306.51
	13,405.00	91.74	180.74	11,561.73	-2,226.01	99.80	2,228.24	177.43	1.00	399,031.39	663,304.90
	13,503.00	91.71	180.75	11,558.78	-2,323.96	98.53	2,326.04	177.57	0.03	398,933.44	663,303.63
	13,598.00	90.25	180.47	11,557.15	-2,418.93	97.52	2,420.90	177.69	1.56	398,838.47	663,302.62
	13,692.00	91.12	180.96	11,556.03	-2,512.92	96.34	2,514.76	177.80	1.06	398,744.48	663,301.44
	13,786.00	89.44	180.11	11,555.57	-2,606.91	95.47	2,608.66	177.90	2.00	398,650.49	663,300.57
	13,880.00	88.46	179.55	11,557.29	-2,700.89	95.74	2,702.59	177.97	1.20	398,556.51	663,300.84
	13,973.00	89.72	180.59	11,558.77	-2,793.88	95.63	2,795.51	178.04	1.76	398,463.52	663,300.73
	14,067.00	87.84	178.89	11,560.77	-2,887.85	96.06	2,889.44	178.09	2.70	398,369.55	663,301.16
	14,160.00	90.90	178.44	11,561.79	-2,980.80	98.22	2,982.42	178.11	3.33	398,276.60	663,303.32
	14,254.00	92.69	179.88	11,558.85	-3,074.74	99.60	3,076.35	178.14	2.44	398,182.66	663,304.70
	14,348.00	92.18	180.45	11,554.86	-3,168.66	99.33	3,170.21	178.20	0.81	398,088.74	663,304.43
	14,442.00	92.30	181.68	11,551.18	-3,262.57	97.59	3,264.02	178.29	1.31	397,994.83	663,302.69
	14,537.00	92.27	181.86	11,547.39	-3,357.44	94.65	3,358.78	178.39	0.19	397,899.96	663,299.75
	14,631.00	91.57	181.84	11,544.25	-3,451.34	91.62	3,452.56	178.48	0.74	397,806.06	663,296.72
	14,726.00	90.48	181.89	11,542.55	-3,546.28	88.53	3,547.38	178.57	1.15	397,711.12	663,293.63
	14,821.00	90.84	182.06	11,541.45	-3,641.21	85.26	3,642.21	178.66	0.42	397,616.19	663,290.36
	14,915.00	89.80	181.18	11,540.93	-3,735.17	82.60	3,736.08	178.73	1.45	397,522.23	663,287.70

Survey Report Landscape

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Site: PLU 29 BS
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Design: 121H Lateral AsDrilled

Local Co-ordinate Reference:
TVD Reference:
MID Reference:
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Survey Calculation Method:
Database:

Well 121H - Slot PLU29 BS 121H SHL
 3364+25 @ 3389.00usft (T E101)
 3364+25 @ 3389.00usft (T E101)
 Grid
 Minimum Curvature
 STRYKER_EDM

Survey	MID (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	D/Leg (°/100ft)	Northing (usft)	Easting (usft)
	15,006.00	88.32	181.53	11,542.45	-3,828.13	80.40	3,828.97	178.80	1.64	397,429.27	663,285.50
	15,102.00	89.61	179.85	11,544.15	-3,922.10	79.27	3,922.90	178.84	2.25	397,335.30	663,284.37
	15,196.00	89.69	180.32	11,544.72	-4,016.10	79.13	4,016.88	178.87	0.51	397,241.30	663,284.23
	15,290.00	87.84	179.50	11,546.75	-4,110.07	79.28	4,110.84	178.90	2.15	397,147.33	663,284.38
	15,384.00	89.89	178.88	11,548.61	-4,204.04	80.60	4,204.81	178.90	2.28	397,053.36	663,285.70
	15,478.00	89.55	179.01	11,549.07	-4,298.02	82.34	4,298.81	178.90	0.39	396,959.38	663,287.44
	15,572.00	89.69	178.90	11,549.70	-4,392.01	84.05	4,392.81	178.90	0.19	396,865.39	663,289.15
	15,667.00	92.57	179.81	11,547.82	-4,486.97	85.12	4,487.78	178.91	3.18	396,770.43	663,290.22
	15,761.00	92.33	179.99	11,543.80	-4,580.88	85.28	4,581.68	178.93	0.32	396,676.52	663,290.38
	15,856.00	89.16	178.27	11,542.57	-4,675.85	86.73	4,676.65	178.94	3.80	396,581.55	663,291.83
	15,950.00	88.49	178.66	11,544.50	-4,769.79	89.24	4,770.63	178.93	0.82	396,487.61	663,294.34
	16,044.00	91.01	180.38	11,544.91	-4,863.78	90.03	4,864.61	178.94	3.25	396,393.62	663,295.13
	16,138.00	90.14	182.50	11,543.96	-4,957.74	87.67	4,958.51	178.99	2.44	396,299.66	663,292.77
	16,232.00	88.01	181.83	11,545.48	-5,051.65	84.12	5,052.35	179.05	2.38	396,205.75	663,289.22
	16,325.00	89.47	181.01	11,547.53	-5,144.60	81.81	5,145.25	179.09	1.80	396,112.80	663,286.91
	16,418.00	92.86	178.47	11,545.63	-5,237.56	82.23	5,238.20	179.10	4.55	396,019.84	663,287.33
	16,513.00	89.72	177.38	11,543.50	-5,332.46	85.67	5,333.15	179.08	3.50	395,924.94	663,290.77
	16,607.00	93.59	178.56	11,540.78	-5,426.34	89.00	5,427.07	179.06	4.30	395,831.06	663,294.10
	16,701.00	90.81	177.76	11,537.17	-5,520.21	92.02	5,520.98	179.05	3.08	395,737.19	663,297.12
	16,795.00	89.78	178.18	11,536.69	-5,614.15	95.35	5,614.96	179.03	1.18	395,643.25	663,300.45
	16,889.00	90.00	178.94	11,536.87	-5,708.12	97.71	5,708.96	179.02	0.84	395,549.28	663,302.81
	16,983.00	90.84	179.93	11,536.18	-5,802.11	98.64	5,802.95	179.03	1.38	395,455.29	663,303.74
	17,076.00	91.51	179.96	11,534.27	-5,895.09	98.73	5,895.92	179.04	0.72	395,362.31	663,303.83
	17,170.00	91.26	179.38	11,532.00	-5,989.06	99.27	5,989.88	179.05	0.67	395,268.34	663,304.37
	17,263.00	91.12	179.25	11,530.07	-6,082.03	100.38	6,082.86	179.05	0.21	395,175.37	663,305.48
	17,357.00	88.52	177.66	11,530.37	-6,175.99	102.91	6,176.85	179.05	3.24	395,081.41	663,308.01
	17,451.00	89.52	178.13	11,531.97	-6,269.91	106.37	6,270.81	179.03	1.18	394,987.49	663,311.47

Survey Report Landscape

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 STRYKER_EDM

Survey	MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	D Leg (°/100ft)	Northing (usft)	Easting (usft)
	17,545.00	90.70	178.80	11,531.79	-6,363.87	108.88	6,364.81	179.02	1.44	394,893.53	663,313.98
	17,639.00	92.69	179.91	11,529.01	-6,457.82	109.94	6,458.76	179.02	2.42	394,799.58	663,315.04
	17,733.00	92.10	180.26	11,525.08	-6,551.74	109.80	6,552.66	179.04	0.73	394,705.66	663,314.90
	17,827.00	91.68	180.58	11,521.98	-6,645.68	109.11	6,646.58	179.06	0.56	394,611.72	663,314.21
	17,921.00	89.52	180.05	11,521.00	-6,739.67	108.60	6,740.55	179.08	2.37	394,517.73	663,313.70
	18,015.00	89.13	179.84	11,522.11	-6,833.66	108.69	6,834.53	179.09	0.47	394,423.74	663,313.79
	18,109.00	88.04	179.30	11,524.43	-6,927.63	109.39	6,928.50	179.10	1.29	394,329.77	663,314.49
	18,202.00	89.08	179.69	11,526.77	-7,020.60	110.21	7,021.46	179.10	1.19	394,236.80	663,315.31
	18,296.00	91.12	180.85	11,526.60	-7,114.59	109.77	7,115.44	179.12	2.50	394,142.81	663,314.87
	18,390.00	90.53	180.55	11,525.25	-7,208.57	108.62	7,209.39	179.14	0.70	394,048.83	663,313.72
	18,484.00	90.84	179.43	11,524.12	-7,302.56	108.64	7,303.37	179.15	1.24	393,954.84	663,313.74
	18,578.00	91.04	178.72	11,522.58	-7,396.54	110.15	7,397.36	179.15	0.78	393,860.86	663,315.25
	18,672.00	91.04	181.17	11,520.88	-7,490.52	110.24	7,491.33	179.16	2.61	393,766.88	663,315.34
	18,766.00	90.84	180.66	11,519.33	-7,584.49	108.74	7,585.27	179.18	0.58	393,672.91	663,313.84
	18,860.00	90.92	181.20	11,517.89	-7,678.47	107.22	7,679.22	179.20	0.58	393,578.93	663,312.32
	18,955.00	90.50	179.61	11,516.71	-7,773.45	106.55	7,774.18	179.21	1.73	393,483.95	663,311.65
	19,049.00	89.75	179.26	11,516.51	-7,867.45	107.47	7,868.18	179.22	0.88	393,389.95	663,312.57
	19,143.00	88.46	178.81	11,517.98	-7,961.42	109.06	7,962.17	179.22	1.45	393,295.98	663,314.16
	19,165.00	88.21	178.58	11,518.61	-7,983.41	109.56	7,984.16	179.21	1.53	393,273.99	663,314.66
Wellpath Crosses LTP 19,165.25		88.21	178.58	11,518.62	-7,983.66	109.56	7,984.41	179.21	0.00	393,273.74	663,314.66
PLU29 BS 121H LTP_330FSL_580FEL											
19,242.00		87.34	177.79	11,521.60	-8,060.31	111.99	8,061.09	179.20	1.53	393,197.09	663,317.09
19,295.00		87.34	177.79	11,524.06	-8,113.21	114.03	8,114.01	179.19	0.00	393,144.19	663,319.13
TD @ 200FSL_566FEL - PLU29 BS 121H PBHL_200FSL_580FEL											