

Results of Directional Survey

API number:	30-025-41131		
OGRID:		Operator:	XTO ENERGY, INC
		Property:	PERLA NEGRA FEDERAL COM # 1H

surface	ULSTR:	M	24	T 19S	R 34E
				330 FSL	400 FWL

BH Loc	ULSTR:	D	24	T 19S	R 34E
15220	MD	10821.7	TVD	326 FNL	358 FWL
				4954 FSL	

Top Perf/OH	ULSTR:	M	24	T 19S	R 34E
11134	MD	10856.8	TVD	873 FSL	443 FWL

Bot Perf/OH	ULSTR:	D	24	T 19S	R 34E
15117	MD	10825.2	TVD	429 FNL	360 FWL
				4851 FSL	

	MD	N/S	E/W	VD
	11113	522.89	44.99	10830.96
TOP PERFS/OH	11134	543.20	42.60	10856.76
	11143	551.90	41.58	10867.81
	15081	4484.84	-39.91	10826.34
BOT PERFS/OH	15117	4520.82	-40.35	10825.18
	15170	4573.78	-41.00	10823.47

NEXT TO LAST	15170	4573.78	-41.00	10823.47
LAST READING	15220	4623.75	-41.61	10821.72
TD	15220	4623.75	-41.61	10821.72

Surface Location	330	FS	400	FW
Projected BHL	4954	FS	358	FW
Location of				
Top Perfs/OH	873	FS	443	FW
Bottom Perfs/OH	4851	FS	360	FW

SUMMARY of Subsurface Locations

Surface Location	M-24-19S-34E	330	FS	400	FW	Vert. Depth
Top Perfs/OH	M-24-19S-34E	873	FS	443	FW	10856.76
Bottom Perfs/OH	D-24-19S-34E	4851	FS	360	FW	10825.18
Projected TD	D-24-19S-34E	4954	FS	358	FW	10821.72

NOV 25 2013

Operator: XTO Energy
Well/Lease: Pearla Negra Fed Com 1H
County: Lea, NM

REC'D MIDLAND
OCT 01 2013

STATE OF NEW MEXICO
DEVIATION REPORT

<u>Footage</u>	<u>Degree</u>
199	0.25
341	1.00
523	0.75
695	0.25
996	0.50
1182	1.00
1369	1.00
1555	0.25
1746	0.75
1858	1.50
1927	0.80
2113	1.70
2299	1.90
2485	0.20
2671	0.60
2857	1.10
3043	1.30
3231	2.00
3417	0.90
3603	1.30
3769	1.20
3915	1.30
4100	1.40
4268	1.40
4471	1.40
4658	1.50
4844	1.30
5029	1.40
5215	1.40
5401	1.40
5587	1.30
5773	1.60

<u>Footage</u>	<u>Degree</u>
5959	1.20
6144	1.40
6331	1.20
6517	1.10
6702	1.00
6888	1.00
7075	0.80
7260	0.80
7446	0.90
7632	0.60
7819	0.60
8004	0.50
8191	0.40
8377	0.40
8563	0.10
8749	0.40
8934	1.30
9121	1.10
9306	1.20
9493	1.00
9679	1.40
9866	1.40
10297	0.25
10338	1.30

HOBBS OCD

NOV 01 2013

RECEIVED

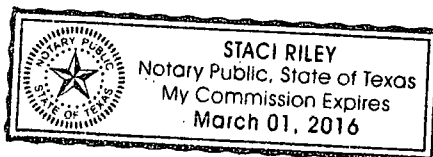
Signed By:

Charles Walsh

Charles Walsh, Division Manager
Pioneer Drilling Company

Appeared before me on Sept 30, 2013.

Staci Riley
Notary Public





HOBBS OGD

NOV 01 2013

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Professional Directional EOG Survey Report



Company: XTO Energy Inc.
Project: Lea County, NM
Site: Perla Negra Federal Com No. 1H
Well: No. 1H
Wellbore: Original Hole
Design: MWD Surveys (0') 1927-XXXX

Local Co-ordinate Reference: Well No. 1H
TVD Reference: WELL @ 3798.00usft (GL: 3779' + RKB: 19')
MD Reference: WELL @ 3798.00usft (GL: 3779' + RKB: 19')
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Well_Planner1

Project: Lea County, NM

Map System: US State Plane 1983
Geo Datum: North American Datum 1983
Map Zone: New Mexico Eastern Zone

System Datum: Mean Sea Level

Site: Perla Negra Federal Com No. 1H

Site Position:	Northings:	597,327.70 usft	Latitude:	32° 38' 22.108 N
From: Map	Easting:	791,376.50 usft	Longitude:	103° 31' 15.773 W
Position Uncertainty:	Slot Radius:	13-3/16 "	Grid Convergence:	0.44 °

Well: No. 1H

Well Position	+N/-S	0.00 usft	Northings:	597,327.70 usft	Latitude:	32° 38' 22.108 N
	+E/-W	0.00 usft	Easting:	791,376.50 usft	Longitude:	103° 31' 15.773 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,779.00 usft

Wellbore: Original Hole

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	8/28/2013	7.32	60.52	48,649

Design: MWD Surveys (0') 1927-XXXX

Audit Notes:

Version: 1.0 **Phase:** ACTUAL **Tie On Depth:** 0.00

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	359.49



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Database: Well_Planner1

Survey Program Date 9/11/2013

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
1,927.00	9,865.00	Pro MWD (0') 1927'-9865' (Original Hole)	MWD	MWD
10,050.00	10,297.00	BHI ATK (9865') 10050-10297' (Original Ho	MWD	MWD
10,338.00	15,220.00	Pro MWD (10297') 10338'-XXXX (Original	MWD	MWD

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V-Sec (usft)	Northing (usft)	Easting (usft)	DLeg (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	597,327.70	791,376.50	0.00
1,927.00	0.80	127.90	1,926.94	-8.26	10.62	-8.36	597,319.44	791,387.12	0.04
ProDirectional First MWD Survey									
2,113.00	1.70	114.60	2,112.89	-10.21	14.15	-10.34	597,317.49	791,390.65	0.51
2,299.00	1.90	112.00	2,298.80	-12.51	19.52	-12.69	597,315.19	791,396.02	0.12
2,485.00	0.20	66.00	2,484.76	-13.54	22.67	-13.74	597,314.16	791,399.17	0.95
2,671.00	0.60	53.20	2,670.76	-12.82	23.75	-13.03	597,314.88	791,400.25	0.22
2,857.00	1.10	99.00	2,856.74	-12.52	26.29	-12.75	597,315.18	791,402.79	0.43
3,043.00	1.30	96.60	3,042.70	-13.04	30.15	-13.31	597,314.66	791,406.65	0.11
3,231.00	2.00	76.20	3,230.62	-12.50	35.46	-12.82	597,315.20	791,411.96	0.48
3,417.00	0.90	69.00	3,416.56	-11.20	39.97	-11.56	597,316.50	791,416.47	0.60
3,603.00	1.30	41.30	3,602.52	-9.10	42.73	-9.48	597,318.60	791,419.23	0.35
3,769.00	1.20	42.00	3,768.49	-6.39	45.13	-6.79	597,321.31	791,421.63	0.06
3,915.00	1.30	36.90	3,914.45	-3.93	47.15	-4.35	597,323.77	791,423.65	0.10
4,100.00	1.40	47.60	4,099.40	-0.73	50.08	-1.17	597,326.97	791,426.58	0.15
4,286.00	1.40	40.90	4,285.34	2.52	53.25	2.05	597,330.22	791,429.75	0.09
4,471.00	1.40	43.20	4,470.29	5.88	56.27	5.38	597,333.58	791,432.77	0.03
4,658.00	1.50	46.90	4,657.23	9.22	59.62	8.69	597,336.92	791,436.12	0.07
4,844.00	1.30	46.30	4,843.17	12.34	62.93	11.78	597,340.04	791,439.43	0.11
5,030.00	1.40	39.20	5,029.12	15.56	65.89	14.97	597,343.26	791,442.39	0.10
5,216.00	1.40	38.50	5,215.07	19.10	68.74	18.48	597,346.80	791,445.24	0.01



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Survey Calculation Method: Minimum Curvature
Database: Well_Planner1

Survey									
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	Northing (usft)	Easting (usft)	DLeg (°/100usft)
5,402.00	1.40	38.20	5,401.01	22.66	71.56	22.02	597,350.36	791,448.06	0.00
5,587.00	1.30	35.80	5,585.96	26.14	74.18	25.48	597,353.84	791,450.68	0.06
5,773.00	1.60	33.60	5,771.90	30.01	76.85	29.33	597,357.71	791,453.35	0.16
5,959.00	1.20	28.60	5,957.84	33.88	79.22	33.18	597,361.58	791,455.72	0.22
6,145.00	1.40	28.00	6,143.80	37.60	81.22	36.88	597,365.30	791,457.72	0.11
6,331.00	1.20	32.10	6,329.75	41.26	83.32	40.51	597,368.96	791,459.82	0.12
6,517.00	1.10	34.90	6,515.71	44.37	85.38	43.61	597,372.07	791,461.88	0.06
6,702.00	1.00	27.60	6,700.68	47.26	87.14	46.48	597,374.96	791,463.64	0.09
6,888.00	1.00	19.30	6,886.65	50.23	88.43	49.44	597,377.93	791,464.93	0.08
7,075.00	0.80	5.30	7,073.63	53.07	89.09	52.27	597,380.77	791,465.59	0.16
7,261.00	0.80	359.40	7,259.61	55.66	89.20	54.86	597,383.36	791,465.70	0.04
7,447.00	0.90	3.60	7,445.59	58.42	89.28	57.62	597,386.12	791,465.78	0.06
7,632.00	0.60	357.70	7,630.57	60.83	89.33	60.04	597,388.53	791,465.83	0.17
7,819.00	0.60	354.70	7,817.56	62.79	89.20	61.99	597,390.49	791,465.70	0.02
8,005.00	0.50	322.40	8,003.56	64.40	88.61	63.61	597,392.10	791,465.11	0.17
8,191.00	0.40	308.90	8,189.55	65.45	87.61	64.67	597,393.15	791,464.11	0.08
8,377.00	0.40	235.40	8,375.55	65.49	86.57	64.72	597,393.19	791,463.07	0.26
8,563.00	0.10	213.50	8,561.54	64.99	85.95	64.22	597,392.69	791,462.45	0.17
8,748.00	0.40	130.30	8,746.54	64.43	86.35	63.66	597,392.13	791,462.85	0.22
8,934.00	1.30	157.50	8,932.52	62.06	87.66	61.28	597,389.76	791,464.16	0.52
9,121.00	1.10	149.30	9,119.48	58.56	89.38	57.76	597,386.26	791,465.88	0.14
9,307.00	1.20	131.10	9,305.44	55.75	91.76	54.93	597,383.45	791,468.26	0.20
9,493.00	1.00	117.00	9,491.41	53.73	94.68	52.88	597,381.43	791,471.18	0.18
9,679.00	1.40	101.20	9,677.37	52.55	98.35	51.67	597,380.25	791,474.85	0.28
9,865.00	1.40	92.20	9,863.31	52.02	102.85	51.10	597,379.72	791,479.35	0.12
10,050.00	1.10	95.32	10,048.27	51.77	106.88	50.82	597,379.47	791,483.38	0.17
10,235.00	0.79	132.73	10,233.24	50.74	109.58	49.76	597,378.44	791,486.08	0.36



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Survey										
MD (usft)	Inc (°)	Azi. (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	Northing (usft)	Easting (usft)	DLeg (°/100usft)	
10,297.00	0.25	123.98	10,295.24	50.37	110.01	49.39	597,378.07	791,486.51	0.88	
10,338.00	1.30	40.40	10,336.24	50.68	110.39	49.69	597,378.38	791,486.89	3.16	
10,369.00	3.20	13.40	10,367.21	51.79	110.81	50.80	597,379.49	791,487.31	6.86	
10,400.00	5.60	6.40	10,398.12	54.13	111.18	53.14	597,381.83	791,487.68	7.92	
10,431.00	8.40	3.50	10,428.89	57.90	111.49	56.90	597,385.60	791,487.99	9.10	
10,462.00	11.50	2.80	10,459.42	63.24	111.78	62.25	597,390.94	791,488.28	10.01	
10,493.00	14.40	1.90	10,489.62	70.19	112.06	69.19	597,397.89	791,488.56	9.38	
10,525.00	17.00	0.70	10,520.43	78.84	112.25	77.84	597,406.54	791,488.75	8.19	
10,556.00	21.00	357.60	10,549.73	88.93	112.07	87.93	597,416.63	791,488.57	13.30	
10,586.00	26.20	355.90	10,577.22	100.91	111.37	99.92	597,428.61	791,487.87	17.48	
10,617.00	31.30	353.40	10,604.39	115.75	109.95	114.76	597,443.45	791,486.45	16.90	
10,648.00	37.10	350.70	10,630.02	132.99	107.52	132.03	597,460.69	791,484.02	19.34	
10,678.00	41.20	349.60	10,653.28	151.64	104.27	150.71	597,479.34	791,480.77	13.86	
10,709.00	45.30	349.00	10,675.85	172.51	100.32	171.61	597,500.21	791,476.82	13.29	
10,740.00	49.70	348.90	10,696.79	194.94	95.94	194.07	597,522.64	791,472.44	14.20	
10,771.00	53.50	348.60	10,716.04	218.76	91.20	217.94	597,546.46	791,467.70	12.28	
10,802.00	55.70	348.40	10,734.00	243.52	86.16	242.74	597,571.22	791,462.66	7.12	
10,833.00	58.80	348.90	10,750.77	269.08	81.03	268.35	597,596.78	791,457.53	10.09	
10,864.00	61.00	349.70	10,766.31	295.43	76.06	294.74	597,623.13	791,452.56	7.44	
10,896.00	62.20	350.50	10,781.53	323.16	71.22	322.51	597,650.86	791,447.72	4.35	
10,927.00	64.00	350.90	10,795.56	350.44	66.75	349.83	597,678.14	791,443.25	5.92	
10,958.00	66.30	351.80	10,808.58	378.25	62.52	377.68	597,705.95	791,439.02	7.87	
10,989.00	67.40	352.60	10,820.77	406.49	58.66	405.95	597,734.19	791,435.16	4.27	
11,020.00	68.90	353.10	10,832.31	435.04	55.08	434.53	597,762.74	791,431.58	5.06	
11,051.00	71.20	353.60	10,842.89	463.98	51.70	463.50	597,791.68	791,428.20	7.57	
11,082.00	72.80	353.50	10,852.46	493.27	48.39	492.82	597,820.97	791,424.89	5.17	
11,113.00	75.40	353.40	10,860.96	522.89	44.99	522.47	597,850.59	791,421.49	8.39	



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WELL @ 3798.00usft (GL: 3779' + RKB: 19')
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Minimum Curvature
Well_Planner1

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MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	Northing (usft)	Easting (usft)	DLeg (°/100usft)	
11,143.00	78.20	353.20	10,867.81	551.90	41.58	551.50	597,879.60	791,418.08	9.36	
11,174.00	81.10	353.30	10,873.38	582.18	38.00	581.81	597,909.88	791,414.50	9.36	
11,205.00	84.80	353.50	10,877.18	612.73	34.46	612.40	597,940.43	791,410.96	11.95	
11,236.00	88.30	354.10	10,879.04	643.49	31.12	643.19	597,971.19	791,407.62	11.45	
11,267.00	89.70	353.90	10,879.59	674.32	27.88	674.04	598,002.02	791,404.38	4.56	
11,361.00	91.10	354.10	10,878.93	767.80	18.06	767.60	598,095.50	791,394.56	1.50	
11,453.00	92.70	354.10	10,875.88	859.26	8.61	859.14	598,186.96	791,385.11	1.74	
11,546.00	90.00	356.00	10,873.69	951.87	0.59	951.83	598,279.57	791,377.09	3.55	
11,639.00	91.00	356.20	10,872.88	1,044.65	-5.74	1,044.66	598,372.35	791,370.76	1.10	
11,732.00	91.00	358.50	10,871.25	1,137.53	-10.04	1,137.57	598,465.23	791,366.46	2.47	
11,825.00	91.60	358.70	10,869.14	1,230.48	-12.31	1,230.54	598,558.18	791,364.19	0.68	
11,918.00	92.40	358.50	10,865.90	1,323.39	-14.58	1,323.47	598,651.09	791,361.92	0.89	
12,012.00	92.00	359.40	10,862.29	1,417.31	-16.30	1,417.40	598,745.01	791,360.20	1.05	
12,104.00	89.70	0.00	10,860.92	1,509.29	-16.78	1,509.38	598,836.99	791,359.72	2.58	
12,197.00	90.50	359.80	10,860.76	1,602.29	-16.95	1,602.37	598,929.99	791,359.55	0.89	
12,290.00	90.40	359.10	10,860.03	1,695.28	-17.84	1,695.37	599,022.98	791,358.66	0.76	
12,383.00	86.80	359.90	10,862.30	1,788.23	-18.65	1,788.33	599,115.93	791,357.85	3.97	
12,476.00	87.70	0.30	10,866.77	1,881.12	-18.49	1,881.21	599,208.82	791,358.01	1.06	
12,569.00	89.40	359.90	10,869.12	1,974.09	-18.33	1,974.18	599,301.79	791,358.17	1.88	
12,661.00	87.40	0.00	10,871.69	2,066.05	-18.41	2,066.13	599,393.75	791,358.09	2.18	
12,755.00	89.90	0.70	10,873.90	2,160.01	-17.83	2,160.09	599,487.71	791,358.67	2.76	
12,848.00	92.10	0.80	10,872.28	2,252.99	-16.61	2,253.04	599,580.69	791,359.89	2.37	
12,941.00	93.80	0.40	10,867.49	2,345.85	-15.64	2,345.90	599,673.55	791,360.86	1.88	
13,034.00	92.70	0.60	10,862.22	2,438.70	-14.83	2,438.73	599,766.40	791,361.67	1.20	
13,127.00	92.10	0.90	10,858.33	2,531.61	-13.62	2,531.63	599,859.31	791,362.88	0.72	
13,220.00	89.30	0.40	10,857.19	2,624.59	-12.56	2,624.59	599,952.29	791,363.94	3.06	
13,313.00	89.20	0.40	10,858.41	2,717.58	-11.91	2,717.57	600,045.28	791,364.59	0.11	



Professional Directional EOG Survey Report



Company: XTO Energy Inc.
Project: Lea County, NM
Site: Perla Negra Federal Com No. 1H
Well: No. 1H
Wellbore: Original Hole
Design: MWD Surveys (0') 1927'-XXXX

Local Co-ordinate Reference: Well No. 1H
TVD Reference: WELL @ 3798.00usft (GL: 3779' + RKB: 19')
MD Reference: WELL @ 3798.00usft (GL: 3779' + RKB: 19')
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Well_Planner1

Survey									
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	Northing (usft)	Easting (usft)	DLeg (°/100usft)
13,406.00	90.30	0.40	10,858.81	2,810.57	-11.26	2,810.56	600,138.27	791,365.24	1.18
13,499.00	91.20	0.00	10,857.60	2,903.56	-10.94	2,903.54	600,231.26	791,365.56	1.06
13,592.00	92.10	359.60	10,854.92	2,996.52	-11.26	2,996.50	600,324.22	791,365.24	1.06
13,685.00	91.20	359.40	10,852.24	3,089.48	-12.07	3,089.46	600,417.18	791,364.43	0.99
13,778.00	89.90	358.50	10,851.35	3,182.46	-13.78	3,182.45	600,510.16	791,362.72	1.70
13,870.00	90.90	358.40	10,850.71	3,274.42	-16.27	3,274.43	600,602.12	791,360.23	1.09
13,964.00	90.40	358.80	10,849.64	3,368.38	-18.56	3,368.42	600,696.08	791,357.94	0.68
14,057.00	91.70	358.40	10,847.93	3,461.34	-20.83	3,461.39	600,789.04	791,355.67	1.46
14,150.00	91.20	359.20	10,845.58	3,554.29	-22.78	3,554.35	600,881.99	791,353.72	1.01
14,243.00	89.80	358.80	10,844.77	3,647.27	-24.40	3,647.34	600,974.97	791,352.10	1.57
14,336.00	90.10	358.40	10,844.85	3,740.24	-26.68	3,740.33	601,067.94	791,349.82	0.54
14,429.00	90.60	358.60	10,844.28	3,833.21	-29.11	3,833.31	601,160.91	791,347.39	0.58
14,522.00	91.30	358.70	10,842.74	3,926.17	-31.30	3,926.29	601,253.87	791,345.20	0.76
14,615.00	91.50	358.80	10,840.47	4,019.12	-33.33	4,019.25	601,346.82	791,343.17	0.24
14,709.00	92.00	359.00	10,837.60	4,113.05	-35.13	4,113.20	601,440.75	791,341.37	0.57
14,801.00	92.80	359.20	10,833.75	4,204.96	-36.58	4,205.12	601,532.66	791,339.92	0.90
14,894.00	90.90	359.40	10,830.74	4,297.90	-37.71	4,298.07	601,625.60	791,338.79	2.05
14,988.00	91.40	359.30	10,828.86	4,391.88	-38.78	4,392.05	601,719.58	791,337.72	0.54
15,081.00	91.70	359.30	10,826.34	4,484.84	-39.91	4,485.01	601,812.54	791,336.59	0.32
15,170.00	92.00	359.30	10,823.47	4,573.78	-41.00	4,573.97	601,901.48	791,335.50	0.34
Last Survey: 15081' MD 10823.47' TVD									
15,220.00	92.00	359.30	10,821.72	4,623.75	-41.61	4,623.94	601,951.45	791,334.89	0.00
PTB @ 15,220' MD, 10,821.72' TVD									



Professional Directional
EOG Survey Report



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North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Well_Planner1

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
15,170.00	10,823.47	4,573.78	-41.00	Last Survey: 15081' MD 10823.47' TVD
15,220.00	10,821.72	4,623.75	-41.61	PTB @ 15,220' MD, 10,821.72' TVD