

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTNMOCD
HobbsFORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.
NMNM263951a. Type of Well ☒ Oil Well ☐ Gas Well ☐ Dry ☐ Other
b. Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.
Other _____

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.
NMNM1351532. Name of Operator
XTO ENERGY INCORPORATED

Contact: STEPHANIE RABADUE

8. Lease Name and Well No.
PERLA NEGRA FED COM 4H3. Address 500 W ILLINOIS STREET SUITE 100
MIDLAND, TX 797013a. Phone No. (include area code)
Ph: 432-620-67149. API Well No.
30-025-42577-00-S1

4. Location of Well (Report location clearly and in accordance with Federal requirements)

At surface NENE 298FNL 485FEL 32.637653 N Lat, 103.506267 W Lon
At top prod interval reported below SWSE 405FSL 468FEL
At total depth NENE 120FNL 344FEL10. Field and Pool, or Exploratory
LEA11. Sec., T., R., M., or Block and Survey
or Area Sec 25 T19S R34E Mer NMP12. County or Parish
LEA13. State
NM14. Date Spudded
07/12/201515. Date T.D. Reached
08/12/201516. Date Completed
☐ D & A ☒ Ready to Prod.
09/11/201517. Elevations (DF, KB, RT, GL)*
3780 GL18. Total Depth: MD 16064
TVD 1086019. Plug Back T.D.: MD 15890
TVD 1086020. Depth Bridge Plug Set: MD
TVD21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
CBL NEUTRONLOG22. Was well cored? ☒ No ☐ Yes (Submit analysis)
Was DST run? ☒ No ☐ Yes (Submit analysis)
Directional Survey? ☐ No ☒ Yes (Submit analysis)

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
17.500	13.375 J-55	54.5	0	1882		1543		0	0
12.250	9.625 J-55	40.0	0	4048		1051		0	0
8.750	5.500 HCP-110	17.0	0	15984		2745		370	0

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.875	10384	10384						

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) BONE SPRING	8003	11056	11300 TO 15845			
B)						
C)						
D)						

26. Perforation Record

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
11300 TO 15845	FRAC WELL IN 16 STAGES FR/11300-15845' WITH: 3,913,200LBS OTTAWA 20/40 SAND.

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
09/12/2015	09/19/2015	24	→	676.0	432.0	750.0			FLOW FROM WELL
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
24/64	SI		→	676	432	750	643	POW	

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
	SI		→						

(See Instructions and spaces for additional data on reverse side)

ELECTRONIC SUBMISSION #324849 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED **

MJB/OCD 2/3/2016

FEB 03 2016

HOBBS OCO
JAN 25 2016
RECEIVEDACCEPTED FOR RECORD
JAN 21 2016
BUREAU OF LAND MANAGEMENT
PERLA NEGRA FIELD OFFICE

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas-Oil Ratio	Well Status	

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas-Oil Ratio	Well Status	

29. Disposition of Gas(Sold, used for fuel, vented, etc.)
SOLD

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top Meas. Depth
RUSTLER	0	1811	WATER		
CASTILE	1812	3282	SALT		
YATES	3283	3500			
SEVEN RIVERS	3501	4039			
QUEEN	4040	4739			
DELAWARE	4740	6374			
BRUSHY CANYON	6375	8002			
BONE SPRING	8003	11056			

32. Additional remarks (include plugging procedure):
CBL submitted w/3160-5 sundry

33. Circle enclosed attachments:

- | | | | |
|---|--------------------|---------------|-----------------------|
| 1. Electrical/Mechanical Logs (1 full set req'd.) | 2. Geologic Report | 3. DST Report | 4. Directional Survey |
| 5. Sundry Notice for plugging and cement verification | 6. Core Analysis | 7 Other: | |

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):

Electronic Submission #324849 Verified by the BLM Well Information System.
For XTO ENERGY INCORPORATED, sent to the Hobbs
Committed to AFMSS for processing by LINDA JIMENEZ on 12/01/2015 (16LJ0218SE)

Name (please print) STEPHANIE RABADUE

Title REGULATORY ANALYST

Signature (Electronic Submission)

Date 11/30/2015

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ****

DISTRICT I
1625 N. French Dr., Hobbs, NM 88240
Phone (575) 393-6161 Fax (575) 393-0720

DISTRICT II
311 S. First St., Artesia, NM 88210
Phone (575) 748-1283 Fax (575) 748-0720

DISTRICT III
1000 Rio Brazos Road, Aztec, NM 87410
Phone (505) 334-6178 Fax (505) 334-6170

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone (505) 476-3460 Fax (505) 476-3462

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

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-42577	Pool Code 37570	Pool Name Lea, Bone Spring
Property Code 39834	Property Name PERLA NEGRA FEDERAL COM	
OGRID No 005380	Operator Name XTO ENERGY	Well Number 4H
		Elevation 3780'

Surface Location

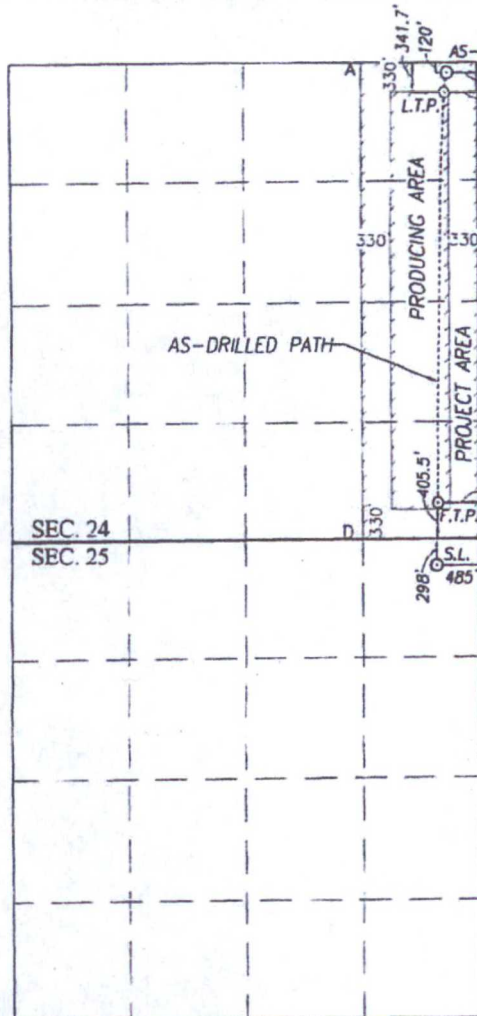
UL or lot No	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	25	19-S	34-E		298	NORTH	485	EAST	LEA

As-Drilled 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
A	24	19-S	34-E		120	NORTH	344.2	EAST	LEA

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
11.0			

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



SCALE: 1"=2000'

AS-DRILLED B.H.
341.7'
120'
374.4'

GEODETIC COORDINATES NAD 27 NME
BOTTOM HOLE LOCATION
Y=602142.0 N
X=754691.9 E
LAT.=32.652662° N
LONG.=103.505829° W

GEODETIC COORDINATES NAD 83 NME
BOTTOM HOLE LOCATION
Y=602205.6 N
X=795872.2 E
LAT.=32.652786° N
LONG.=103.506321° W

GEODETIC COORDINATES NAD 27 NME
LAST TAKE POINT
Y=601919.9 N
X=754663.7 E
LAT.=32.652052° N
LONG.=103.505927° W

GEODETIC COORDINATES NAD 83 NME
LAST TAKE POINT
Y=601983.5 N
X=795844.0 E
LAT.=32.652176° N
LONG.=103.506418° W

CORNER COORDINATES TABLE
NAD 27 NME

A - Y=602253.8 N, X=753714.0 E
B - Y=602264.8 N, X=755035.0 E
C - Y=596983.2 N, X=755082.0 E
D - Y=596970.1 N, X=753760.8 E

CORNER COORDINATES TABLE
NAD 83 NME

A - Y=602317.4 N, X=794894.3 E
B - Y=602328.4 N, X=796215.3 E
C - Y=597046.7 N, X=796262.4 E
D - Y=597033.5 N, X=794941.3 E

GEODETIC COORDINATES NAD 27 NME
FIRST TAKE POINT
Y=597384.0 N
X=754609.8 E
LAT.=32.639586° N
LONG.=103.506216° W

GEODETIC COORDINATES NAD 83 NME
FIRST TAKE POINT
Y=597447.4 N
X=795790.3 E
LAT.=32.639710° N
LONG.=103.506708° W

GEODETIC COORDINATES NAD 27 NME
SURFACE LOCATION
Y=596680.4 N
X=754599.7 E
LAT.=32.637653° N
LONG.=103.506267° W

GEODETIC COORDINATES NAD 83 NME
SURFACE LOCATION
Y=596743.9 N
X=795780.2 E
LAT.=32.637776° N
LONG.=103.506758° W

OPERATOR CERTIFICATION

I hereby certify that the information 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 mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Stephanie Rabadue
Signature Date

Stephanie Rabadue
Printed Name

Stephanie.Rabadue@xtoenergy.com
E-mail Address

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 belief.

MARCH 18, 2014

Date of Survey
Signature & Seal of Professional Surveyor

Ronald J. Eidson
Certificate Number
Gary G. Eidson 12641
Ronald J. Eidson 3239

ACK REL W.O. 14110291

JWSC W.O. 15.13.1002

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

State of New Mexico
Energy, Minerals & Natural Resources

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-104
Revised Feb. 26, 2007

Submit to Appropriate District Office
5 Copies

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

1 Operator name and Address XTO Energy Inc. 500 W. Illinois St Ste 100 Midland, TX 79701		2 OGRID Number 005380
4 API Number 30-0 25-42557		3 Reason for Filing Code/Effective Date NW
5 Pool Name Lea; Bone Spring	6 Pool Code 37570	
7 Property Code 39834	8 Property Name Perla Negra Federal Com	9 Well Number 4H

II. Surface Location

UL or lot no.	Section	Township	Range	Lot 1dn	Feet from the	North/South Line	Feet from the	East/West line	County
A	25	19S	24E		298	North	485	East	Lea

Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot 1dn	Feet from the	North/South Line	Feet from the	East/West line	County
A	24	19S	34E		120	North	344.2	East	Lea

12 Lsc Code	13 Producing Method Code F	14 Gas Connection Date	15 C-129 Permit Number	16 C-129 Effective Date	17 C-129 Expiration Date
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III. Oil and Gas Transporters

18 Transporter OGRID	19 Transporter Name and Address	20 O/G/W
005108	Sentinel Transportation, LLC 4001 E. 42nd Street, Ste 307 Odessa, TX 79762	O
159160	Targa Midstream Services Limited Partnership 1000 Louisiana, Ste 4300 Houston, TX 77002	G

IV. Well Completion Data

21 Spud Date 07/12/2015	22 Ready Date 09/11/2015	23 TD 16,064'	24 PBTD 15,890'	25 Perforations 11,300-15,845'	26 DHC, MC N/A
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27 Hole Size	28 Casing & Tubing Size	29 Depth Set	30 Sacks Cement
17-1/2	13-3/8" 54.5# J-55 BTC	1882'	1543sx, 351sx circ
12-1/4	9-5/8" 40# J-55 LTC	4048'	1051sx, 182sx circ
8-3/4	5-1/2" 17# HCP-110 BTC	15,984'	2745sx, 219sx circ
N/A	2-7/8" L-80	10,384'	N/A

V. Well Test Data

31 Date New Oil 09/12/2015	32 Gas Delivery Date 09/12/2015	33 Test Date 09/19/2015	34 Test Length 24hrs	35 Tbg. Pressure	36 Csg. Pressure
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37 Choke Size	38 Oil 676	39 Water 720	40 Gas 435	41 Test Method
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42 I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature: *Stephanie Rabadue*

Printed name:
Stephanie Rabadue

Title:
Regulatory Analyst

E-mail Address
stephanie.rabadue@xtoenergy.com

Date: **10/21/2014**

Phone: **432-620-6714**

OIL CONSERVATION DIVISION

Approved by:

Title:

Approval Date:

Final PvA & Surveys



Company: XTO Energy Inc.
Field: Lea County, NM (NAD27)
Location: Sec 24, T2N 19-S, R3E 34-E
Well: Perla Negra Federal Com #4H
Original Wellbore
Plan: Design #3 (Perla Negra Federal Com #4H/Original Wellbore)
WELL @ 3807.0usft (Original Well Elev)
Ground Level: 3780.0

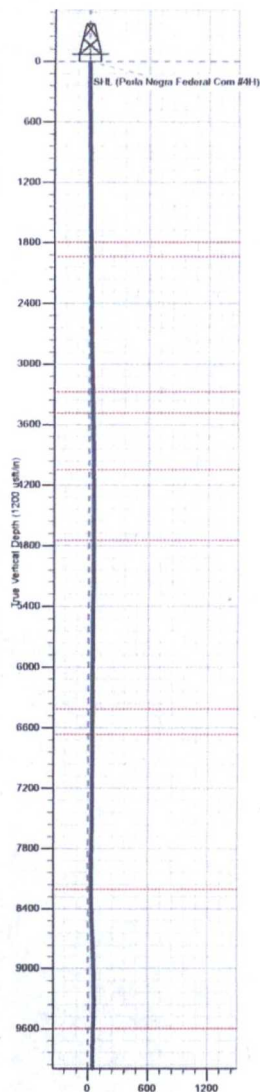


WELL DETAILS: Perla Negra Federal Com #4H

Ground Level	3780.0
WELL @ 3807.0usft (Original Well Elev)	
Easting	754599.70
Latitude	32° 38' 15.549 N
Longitude	103° 30' 22.562 W
Stn	

SECTION DETAILS

Sec	MD	Inc	Az	TVD	+N-S	+E-W	Dleg	Iface	Vsect	Annotation
1	10245.0	0.47	244.58	10243.0	47.0	9.9	0.00	0.00	47.1	Tie-In to Gyro Survey @ 10245MD
2	10252.0	0.00	0.00	10250.0	46.9	9.7	1.00	180.00	47.0	
3	10346.1	0.00	0.00	10344.1	46.9	9.7	0.00	0.00	47.0	KOP 10.06°/100' @ 10346MD
4	10562.0	23.73	357.71	10573.3	95.0	7.8	10.06	357.71	95.1	Build and Turn 10.06°/100' @ 10562MD
5	10582.4	23.73	357.71	10573.7	95.2	7.8	0.00	0.00	95.2	Build and Turn 10.06°/100' @ 10582MD
6	11252.7	91.15	0.40	10914.0	628.0	4.3	10.06	2.91	628.0	Land Curve 91.15° Inc @ 11252MD
7	16006.9	91.15	0.40	10818.6	5381.1	37.1	0.00	0.00	5381.2	Well TD @ 16006MD



PROJECT DETAILS: Lea County, NM (NAD27)

Geoid: System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001
System Datum: Mean Sea Level



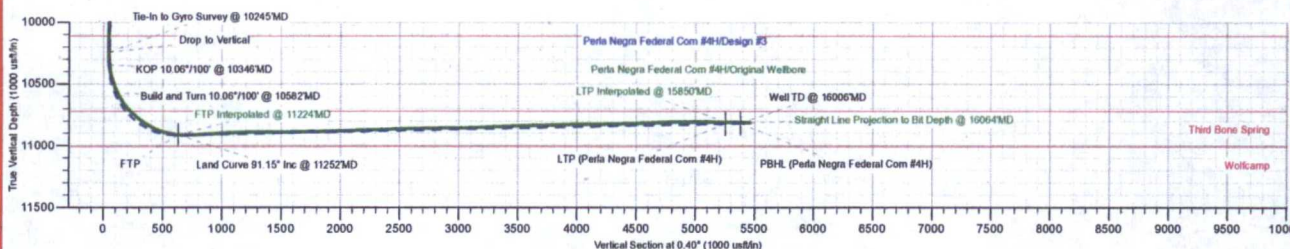
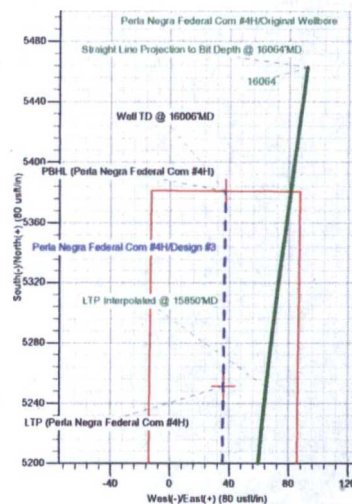
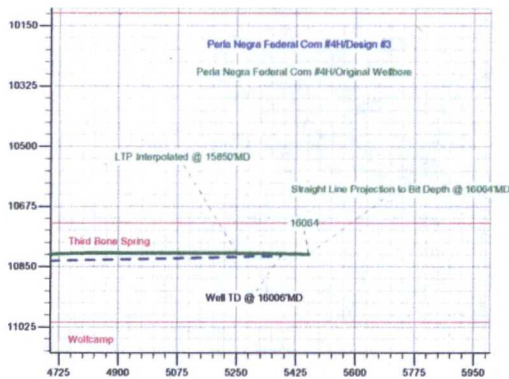
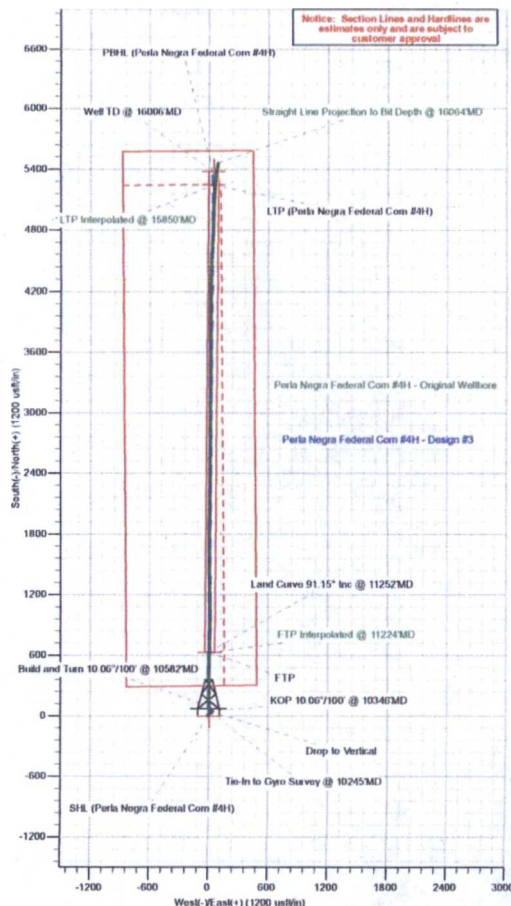
Astronomy to Grid North
True North: -0.45°
Magnetic North: 6.72°
Magnetic Field
Strength: 40000 T
Dip Angle: 60.48°
Date: 06/16/2015
Model: IGRF2015

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
1797.0	1797.1	Runder
1938.0	1938.1	Top Soil
3277.0	3277.5	Base Soil
3487.0	3487.7	Valles
4047.0	4047.8	Seven Rivers
4747.0	4747.8	Queen
6415.0	6415.8	Delaware
6667.0	6667.8	Brushy Canyon
8207.0	8207.9	Bone Spring
9586.0	9587.8	First Bone Spring
10113.0	10115.0	Second Bone Spring
10724.0	10761.9	Third Bone Spring

ANNOTATIONS

TVD	MD	Annotation
10243.0	10245.0	Tie-In to Gyro Survey @ 10245MD
10243.0	10245.0	Drop to Vertical
10344.1	10346.1	KOP 10.06°/100' @ 10346MD
10573.6	10562.0	Build and Turn 10.06°/100' @ 10562MD
10914.0	11252.7	Land Curve 91.15° Inc @ 11252MD
10818.6	16006.9	Well TD @ 16006MD



DESIGN TARGET DETAILS

Name	TVD	+N-S	+E-W	Northing	Easting	Latitude	Longitude	Shape
SHL (Perla Negra Federal Com #4H)	0.0	0.0	0.0	586680.40	754599.70	32° 38' 15.549 N	103° 30' 22.562 W	Point
PBHL (Perla Negra Federal Com #4H)	10818.6	5381.1	37.1	602001.50	754636.80	32° 38' 8.791 N	103° 30' 21.638 W	Point
LTP (Perla Negra Federal Com #4H)	10821.2	5251.1	36.2	601831.50	754635.80	32° 38' 7.504 N	103° 30' 21.660 W	Point
FTP	10914.0	628.0	4.3	607308.40	754604.00	32° 38' 21.763 N	103° 30' 22.454 W	Point

XTO Energy Inc.

Lea County, NM (NAD27)

Sec 24, TWN 19-S, RGE 34-E

Perla Negra Federal Com #4H

Original Wellbore

Design: Original Wellbore

Standard Survey Report

12 August, 2015

Gyrodata
Survey Report



Company:	XTO Energy Inc.	Local Co-ordinate Reference:	Well Perla Negra Federal Com #4H
Project:	Lea County, NM (NAD27)	TVD Reference:	WELL @ 3807.0usft (Original Well Elev)
Site:	Sec 24, TWN 19-S, RGE 34-E	MD Reference:	WELL @ 3807.0usft (Original Well Elev)
Well:	Perla Negra Federal Com #4H	North Reference:	Grid
Wellbore:	Original Wellbore	Survey Calculation Method:	Minimum Curvature
Design:	Original Wellbore	Database:	EDM 5000.1 Single User Db

Project	Lea County, NM (NAD27)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	Sec 24, TWN 19-S, RGE 34-E		
Site Position:		Northing:	596,680.40 usft
From:	Map	Easting:	754,599.70 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 38' 15.549 N
		Longitude:	103° 30' 22.562 W
		Grid Convergence:	0.45 °

Well	Perla Negra Federal Com #4H		
Well Position	+N/-S	0.0 usft	Northing: 596,680.40 usft
	+E/-W	0.0 usft	Easting: 754,599.70 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	0.0 usft
		Latitude:	32° 38' 15.549 N
		Longitude:	103° 30' 22.562 W
		Ground Level:	3,780.0 usft

Wellbore	Original Wellbore				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	06/16/15	7.17	60.48	48,396

Design	Original Wellbore			
Audit Notes:				
Version:	1.0	Phase:	ACTUAL	Tie On Depth: 0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	0.40

Survey Program	Date 08/12/15			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.0	10,245.0	Gyro Survey #1 (Original Wellbore)	GYRO-NS-CT	XYZ Accel with XY Static and Continuous Gyro
10,298.0	16,064.0	MWD Survey #1 (Original Wellbore)	MWD	MWD - Standard

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.49	19.85	100.0	0.4	0.1	0.4	0.49	0.49	0.00
200.0	0.50	20.66	200.0	1.2	0.4	1.2	0.01	0.01	0.81
300.0	0.49	20.07	300.0	2.0	0.7	2.0	0.01	-0.01	-0.59
400.0	0.49	16.11	400.0	2.8	1.0	2.8	0.03	0.00	-3.96
500.0	0.50	12.83	500.0	3.7	1.2	3.7	0.03	0.01	-3.28
600.0	0.60	356.46	600.0	4.6	1.3	4.6	0.19	0.10	-16.37
700.0	0.61	340.94	700.0	5.6	1.1	5.7	0.16	0.01	-15.52
800.0	0.50	331.05	800.0	6.5	0.7	6.5	0.15	-0.11	-9.89
900.0	0.42	325.76	900.0	7.2	0.3	7.2	0.09	-0.08	-5.29

Gyrodata
Survey Report



Company:	XTO Energy Inc.	Local Co-ordinate Reference:	Well Perla Negra Federal Com #4H
Project:	Lea County, NM (NAD27)	TVD Reference:	WELL @ 3807.0usft (Original Well Elev)
Site:	Sec 24, TWN 19-S, RGE 34-E	MD Reference:	WELL @ 3807.0usft (Original Well Elev)
Well:	Perla Negra Federal Com #4H	North Reference:	Grid
Wellbore:	Original Wellbore	Survey Calculation Method:	Minimum Curvature
Design:	Original Wellbore	Database:	EDM 5000.1 Single User Db

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
1,000.0	0.40	322.08	1,000.0	7.8	-0.1	7.8	0.03	-0.02	-3.68
1,100.0	0.38	321.66	1,100.0	8.3	-0.6	8.3	0.02	-0.02	-0.42
1,200.0	0.32	337.47	1,200.0	8.8	-0.9	8.8	0.11	-0.06	15.81
1,300.0	0.38	337.10	1,300.0	9.4	-1.1	9.4	0.06	0.06	-0.37
1,400.0	0.56	333.74	1,400.0	10.2	-1.5	10.1	0.18	0.18	-3.36
1,500.0	0.84	318.14	1,499.9	11.1	-2.2	11.1	0.34	0.28	-15.60
1,600.0	0.86	318.01	1,599.9	12.2	-3.1	12.2	0.02	0.02	-0.13
1,700.0	0.65	348.68	1,699.9	13.4	-3.8	13.3	0.45	-0.21	30.67
1,800.0	0.62	352.45	1,799.9	14.4	-3.9	14.4	0.05	-0.03	3.77
1,900.0	0.53	5.66	1,899.9	15.4	-4.0	15.4	0.16	-0.09	13.21
2,000.0	0.74	51.01	1,999.9	16.3	-3.4	16.3	0.53	0.21	45.35
2,100.0	0.81	63.13	2,099.9	17.0	-2.3	17.0	0.18	0.07	12.12
2,200.0	0.80	62.92	2,199.9	17.7	-1.0	17.7	0.01	-0.01	-0.21
2,300.0	0.78	64.30	2,299.9	18.3	0.2	18.3	0.03	-0.02	1.38
2,400.0	0.55	59.84	2,399.9	18.8	1.2	18.8	0.24	-0.23	-4.46
2,500.0	0.44	42.81	2,499.9	19.3	1.9	19.4	0.18	-0.11	-17.03
2,600.0	0.40	20.81	2,599.9	20.0	2.3	20.0	0.17	-0.04	-22.00
2,700.0	0.55	7.76	2,699.9	20.8	2.5	20.8	0.18	0.15	-13.05
2,800.0	1.02	26.77	2,799.9	22.0	2.9	22.0	0.53	0.47	19.01
2,900.0	1.94	49.03	2,899.8	23.9	4.6	24.0	1.07	0.92	22.26
3,000.0	2.37	54.42	2,999.8	26.2	7.6	26.3	0.47	0.43	5.39
3,100.0	2.60	55.80	3,099.7	28.7	11.1	28.8	0.24	0.23	1.38
3,200.0	2.65	55.65	3,199.6	31.3	14.9	31.4	0.05	0.05	-0.15
3,300.0	2.62	55.33	3,299.4	33.9	18.7	34.0	0.03	-0.03	-0.32
3,400.0	1.96	54.50	3,399.4	36.2	22.0	36.3	0.66	-0.66	-0.83
3,500.0	1.54	55.14	3,499.3	38.0	24.5	38.1	0.42	-0.42	0.64
3,600.0	1.10	55.46	3,599.3	39.3	26.4	39.5	0.44	-0.44	0.32
3,700.0	0.95	49.49	3,699.3	40.4	27.8	40.5	0.18	-0.15	-5.97
3,800.0	0.96	49.84	3,799.3	41.4	29.1	41.6	0.01	0.01	0.35
3,900.0	0.96	52.25	3,899.2	42.5	30.4	42.7	0.04	0.00	2.41
4,000.0	0.81	51.05	3,999.2	43.4	31.6	43.7	0.15	-0.15	-1.20
4,100.0	0.54	58.15	4,099.2	44.1	32.5	44.4	0.28	-0.27	7.10
4,200.0	0.47	63.10	4,199.2	44.6	33.3	44.8	0.08	-0.07	4.95
4,300.0	0.38	67.21	4,299.2	44.9	34.0	45.1	0.09	-0.09	4.11
4,400.0	0.21	77.52	4,399.2	45.1	34.4	45.3	0.18	-0.17	10.31
4,500.0	0.16	86.03	4,499.2	45.1	34.8	45.3	0.06	-0.05	8.51
4,600.0	0.12	98.79	4,599.2	45.1	35.0	45.3	0.05	-0.04	12.76
4,700.0	0.11	105.63	4,699.2	45.1	35.2	45.3	0.02	-0.01	6.84
4,800.0	0.16	135.52	4,799.2	44.9	35.4	45.2	0.08	0.05	29.89
4,900.0	0.21	146.32	4,899.2	44.7	35.6	44.9	0.06	0.05	10.80
5,000.0	0.20	145.89	4,999.2	44.4	35.8	44.6	0.01	-0.01	-0.43
5,100.0	0.18	164.36	5,099.2	44.1	35.9	44.3	0.06	-0.02	18.47
5,200.0	0.24	184.29	5,199.2	43.7	36.0	44.0	0.09	0.06	19.93

Gyrodatta
Survey Report



Company:	XTO Energy Inc.	Local Co-ordinate Reference:	Well Perla Negra Federal Com #4H
Project:	Lea County, NM (NAD27)	TVD Reference:	WELL @ 3807.0usft (Original Well Elev)
Site:	Sec 24, TWN 19-S, RGE 34-E	MD Reference:	WELL @ 3807.0usft (Original Well Elev)
Well:	Perla Negra Federal Com #4H	North Reference:	Grid
Wellbore:	Original Wellbore	Survey Calculation Method:	Minimum Curvature
Design:	Original Wellbore	Database:	EDM 5000.1 Single User Db

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,300.0	0.25	189.80	5,299.2	43.3	35.9	43.5	0.03	0.01	5.51
5,400.0	0.25	193.12	5,399.2	42.9	35.8	43.1	0.01	0.00	3.32
5,500.0	0.25	193.60	5,499.2	42.4	35.7	42.7	0.00	0.00	0.48
5,600.0	0.21	197.20	5,599.2	42.1	35.6	42.3	0.04	-0.04	3.60
5,700.0	0.14	187.67	5,699.2	41.8	35.5	42.0	0.08	-0.07	-9.53
5,800.0	0.09	94.60	5,799.2	41.6	35.6	41.9	0.17	-0.05	-93.07
5,900.0	0.12	79.56	5,899.2	41.7	35.8	41.9	0.04	0.03	-15.04
6,000.0	0.11	88.69	5,999.2	41.7	36.0	41.9	0.02	-0.01	9.13
6,100.0	0.07	124.30	6,099.2	41.6	36.1	41.9	0.07	-0.04	35.61
6,200.0	0.26	197.46	6,199.2	41.4	36.1	41.6	0.25	0.19	73.16
6,300.0	0.63	212.05	6,299.2	40.7	35.8	41.0	0.38	0.37	14.59
6,400.0	0.79	214.58	6,399.2	39.7	35.1	39.9	0.16	0.16	2.53
6,500.0	0.76	219.46	6,499.2	38.6	34.3	38.8	0.07	-0.03	4.88
6,600.0	0.40	259.08	6,599.2	38.0	33.5	38.2	0.52	-0.36	39.62
6,700.0	0.36	274.77	6,699.2	38.0	32.8	38.2	0.11	-0.04	15.69
6,800.0	0.33	278.80	6,799.2	38.0	32.2	38.3	0.04	-0.03	4.03
6,900.0	0.14	277.57	6,899.2	38.1	31.8	38.3	0.19	-0.19	-1.23
7,000.0	0.11	218.38	6,999.2	38.0	31.7	38.3	0.13	-0.03	-59.19
7,100.0	0.19	177.25	7,099.2	37.8	31.6	38.0	0.13	0.08	-41.13
7,200.0	0.25	183.61	7,199.2	37.4	31.6	37.6	0.06	0.06	6.36
7,300.0	0.38	213.48	7,299.2	36.9	31.4	37.1	0.21	0.13	29.87
7,400.0	0.57	220.65	7,399.2	36.3	30.9	36.5	0.20	0.19	7.17
7,500.0	0.79	218.91	7,499.2	35.4	30.1	35.6	0.22	0.22	-1.74
7,600.0	0.79	219.21	7,599.2	34.3	29.3	34.5	0.00	0.00	0.30
7,700.0	0.74	221.13	7,699.2	33.3	28.4	33.5	0.06	-0.05	1.92
7,800.0	0.74	224.44	7,799.1	32.3	27.5	32.5	0.04	0.00	3.31
7,900.0	0.73	223.01	7,899.1	31.4	26.6	31.6	0.02	-0.01	-1.43
8,000.0	0.77	220.10	7,999.1	30.4	25.8	30.6	0.06	0.04	-2.91
8,100.0	0.71	222.87	8,099.1	29.4	24.9	29.6	0.07	-0.06	2.77
8,200.0	0.18	223.27	8,199.1	28.9	24.4	29.0	0.53	-0.53	0.40
8,300.0	1.20	48.17	8,299.1	29.5	25.1	29.6	1.38	1.02	-175.10
8,400.0	1.80	43.11	8,399.1	31.3	26.9	31.5	0.61	0.60	-5.06
8,500.0	2.48	39.04	8,499.0	34.1	29.4	34.3	0.70	0.68	-4.07
8,600.0	3.10	37.13	8,598.9	38.0	32.4	38.2	0.63	0.62	-1.91
8,700.0	3.72	31.71	8,698.7	42.9	35.7	43.1	0.70	0.62	-5.42
8,800.0	3.17	3.11	8,798.5	48.4	37.5	48.7	1.78	-0.55	-28.60
8,900.0	1.91	359.15	8,898.4	52.8	37.7	53.1	1.27	-1.26	-3.96
9,000.0	0.54	8.18	8,998.4	55.0	37.7	55.2	1.38	-1.37	9.03
9,100.0	0.42	285.26	9,098.4	55.5	37.4	55.8	0.64	-0.12	-82.92
9,200.0	0.80	253.31	9,198.4	55.4	36.4	55.7	0.50	0.38	-31.95
9,300.0	1.10	252.70	9,298.4	54.9	34.8	55.2	0.30	0.30	-0.61
9,400.0	2.00	257.13	9,398.3	54.3	32.2	54.5	0.91	0.90	4.43
9,500.0	2.37	252.26	9,498.3	53.2	28.5	53.4	0.41	0.37	-4.87

Gyrodata
Survey Report



Company:	XTO Energy Inc.	Local Co-ordinate Reference:	Well Perla Negra Federal Com #4H
Project:	Lea County, NM (NAD27)	TVD Reference:	WELL @ 3807.0usft (Original Well Elev)
Site:	Sec 24, TWN 19-S, RGE 34-E	MD Reference:	WELL @ 3807.0usft (Original Well Elev)
Well:	Perla Negra Federal Com #4H	North Reference:	Grid
Wellbore:	Original Wellbore	Survey Calculation Method:	Minimum Curvature
Design:	Original Wellbore	Database:	EDM 5000.1 Single User Db

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,600.0	2.39	245.79	9,598.2	51.8	24.7	51.9	0.27	0.02	-6.47
9,700.0	2.33	250.99	9,698.1	50.2	20.8	50.4	0.22	-0.06	5.20
9,800.0	1.82	256.19	9,798.0	49.2	17.4	49.3	0.54	-0.51	5.20
9,900.0	1.37	258.19	9,898.0	48.6	14.7	48.7	0.45	-0.45	2.00
10,000.0	1.11	262.08	9,998.0	48.2	12.5	48.3	0.27	-0.26	3.89
10,100.0	0.64	234.06	10,098.0	47.7	11.1	47.8	0.62	-0.47	-28.02
10,200.0	0.55	240.88	10,198.0	47.2	10.2	47.2	0.11	-0.09	6.82
10,245.0	0.47	244.58	10,243.0	47.0	9.9	47.1	0.19	-0.18	8.22
10,298.0	1.06	310.22	10,296.0	47.2	9.3	47.3	1.82	1.11	123.85
10,329.0	3.38	336.41	10,326.9	48.2	8.7	48.3	7.98	7.48	84.48
10,361.0	6.52	344.00	10,358.8	50.9	7.9	50.9	10.00	9.81	23.72
10,392.0	10.13	347.18	10,389.5	55.2	6.8	55.2	11.74	11.65	10.26
10,424.0	13.47	349.23	10,420.8	61.6	5.4	61.6	10.52	10.44	6.41
10,455.0	16.76	353.15	10,450.7	69.6	4.2	69.6	11.11	10.61	12.65
10,487.0	19.56	356.15	10,481.1	79.5	3.3	79.5	9.22	8.75	9.38
10,518.0	21.87	357.81	10,510.1	90.5	2.8	90.5	7.69	7.45	5.35
10,550.0	24.34	358.55	10,539.5	103.0	2.4	103.0	7.77	7.72	2.31
10,581.0	26.98	359.09	10,567.5	116.4	2.1	116.5	8.55	8.52	1.74
10,612.0	29.10	358.20	10,594.8	131.0	1.7	131.0	6.97	6.84	-2.87
10,644.0	31.40	359.17	10,622.5	147.1	1.4	147.1	7.35	7.19	3.03
10,675.0	34.83	359.98	10,648.4	164.1	1.3	164.1	11.16	11.06	2.61
10,707.0	38.77	0.79	10,674.1	183.2	1.4	183.2	12.41	12.31	2.53
10,738.0	42.92	0.43	10,697.5	203.5	1.6	203.5	13.41	13.39	-1.16
10,770.0	46.05	0.29	10,720.3	225.9	1.7	225.9	9.79	9.78	-0.44
10,801.0	48.13	359.52	10,741.4	248.6	1.7	248.6	6.95	6.71	-2.48
10,833.0	49.93	359.25	10,762.4	272.8	1.4	272.8	5.66	5.63	-0.84
10,864.0	52.33	359.71	10,781.9	296.9	1.2	296.9	7.83	7.74	1.48
10,896.0	55.42	0.07	10,800.7	322.8	1.2	322.8	9.70	9.66	1.13
10,927.0	59.07	0.18	10,817.5	348.8	1.2	348.8	11.78	11.77	0.35
10,959.0	61.77	0.78	10,833.3	376.6	1.5	376.6	8.59	8.44	1.88
10,990.0	63.27	0.66	10,847.6	404.1	1.8	404.1	4.85	4.84	-0.39
11,022.0	65.70	1.38	10,861.4	433.0	2.3	433.0	7.86	7.59	2.25
11,053.0	69.42	1.31	10,873.2	461.7	3.0	461.7	12.00	12.00	-0.23
11,085.0	72.79	1.31	10,883.6	491.9	3.7	491.9	10.53	10.53	0.00
11,116.0	75.20	1.15	10,892.1	521.7	4.3	521.7	7.79	7.77	-0.52
11,148.0	77.25	1.55	10,899.8	552.8	5.1	552.8	6.52	6.41	1.25
11,179.0	80.65	1.99	10,905.7	583.2	6.0	583.2	11.06	10.97	1.42
11,210.0	84.31	2.34	10,909.7	613.9	7.2	613.9	11.86	11.81	1.13
11,224.2	85.46	2.18	10,911.0	628.0	7.7	628.1	8.18	8.10	-1.13
FTP Interpolated @ 11224'MD									
11,242.0	86.90	1.97	10,912.2	645.8	8.4	645.8	8.18	8.09	-1.18
11,273.0	89.51	2.14	10,913.2	676.7	9.5	676.8	8.44	8.42	0.55
11,368.0	92.93	0.52	10,911.1	771.7	11.7	771.7	3.98	3.60	-1.71
11,431.0	92.93	0.35	10,907.9	834.6	12.2	834.6	0.27	0.00	-0.27

Gyrodata
Survey Report



Company:	XTO Energy Inc.	Local Co-ordinate Reference:	Well Perla Negra Federal Com #4H
Project:	Lea County, NM (NAD27)	TVD Reference:	WELL @ 3807.0usft (Original Well Elev)
Site:	Sec 24, TWN 19-S, RGE 34-E	MD Reference:	WELL @ 3807.0usft (Original Well Elev)
Well:	Perla Negra Federal Com #4H	North Reference:	Grid
Wellbore:	Original Wellbore	Survey Calculation Method:	Minimum Curvature
Design:	Original Wellbore	Database:	EDM 5000.1 Single User Db

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
11,462.0	92.60	359.87	10,906.4	865.5	12.2	865.6	1.88	-1.06	-1.55
11,557.0	92.93	359.57	10,901.9	960.4	11.8	960.5	0.47	0.35	-0.32
11,651.0	93.27	359.56	10,896.8	1,054.3	11.0	1,054.3	0.36	0.36	-0.01
11,745.0	91.47	359.27	10,892.9	1,148.2	10.1	1,148.2	1.94	-1.91	-0.31
11,840.0	90.94	358.95	10,890.9	1,243.2	8.6	1,243.2	0.65	-0.56	-0.34
11,934.0	90.77	359.18	10,889.5	1,337.1	7.1	1,337.2	0.30	-0.18	0.24
12,028.0	90.13	359.55	10,888.7	1,431.1	6.0	1,431.1	0.79	-0.68	0.39
12,123.0	91.19	359.88	10,887.6	1,526.1	5.6	1,526.1	1.17	1.12	0.35
12,217.0	89.93	0.20	10,886.7	1,620.1	5.6	1,620.1	1.38	-1.34	0.34
12,311.0	91.19	0.20	10,885.8	1,714.1	6.0	1,714.1	1.34	1.34	0.00
12,406.0	90.44	0.93	10,884.5	1,809.1	6.9	1,809.1	1.10	-0.79	0.77
12,500.0	90.88	0.90	10,883.4	1,903.1	8.4	1,903.1	0.47	0.47	-0.03
12,594.0	92.57	0.65	10,880.5	1,997.0	9.7	1,997.0	1.82	1.80	-0.27
12,689.0	91.75	0.68	10,877.0	2,092.0	10.8	2,092.0	0.86	-0.86	0.03
12,783.0	92.40	0.70	10,873.6	2,185.9	11.9	2,185.9	0.69	0.69	0.02
12,878.0	91.70	0.42	10,870.2	2,280.8	12.8	2,280.9	0.79	-0.74	-0.29
12,972.0	92.12	359.84	10,867.0	2,374.8	13.0	2,374.8	0.76	0.45	-0.62
13,066.0	90.63	0.21	10,864.8	2,468.7	13.1	2,468.8	1.63	-1.59	0.39
13,161.0	90.94	0.61	10,863.5	2,563.7	13.8	2,563.8	0.53	0.33	0.42
13,255.0	92.34	0.19	10,860.8	2,657.7	14.4	2,657.7	1.55	1.49	-0.45
13,350.0	90.66	0.57	10,858.3	2,752.6	15.0	2,752.7	1.81	-1.77	0.40
13,444.0	91.36	0.73	10,856.6	2,846.6	16.1	2,846.7	0.76	0.74	0.17
13,538.0	90.49	0.69	10,855.1	2,940.6	17.3	2,940.7	0.93	-0.93	-0.04
13,633.0	90.29	0.30	10,854.5	3,035.6	18.1	3,035.6	0.46	-0.21	-0.41
13,727.0	91.19	0.04	10,853.3	3,129.6	18.4	3,129.6	1.00	0.96	-0.28
13,822.0	92.99	359.88	10,849.8	3,224.5	18.3	3,224.6	1.90	1.89	-0.17
13,916.0	91.98	0.36	10,845.7	3,318.4	18.5	3,318.5	1.19	-1.07	0.51
14,010.0	92.29	0.19	10,842.2	3,412.4	19.0	3,412.4	0.38	0.33	-0.18
14,104.0	91.61	0.15	10,839.0	3,506.3	19.2	3,506.4	0.72	-0.72	-0.04
14,198.0	91.73	0.25	10,836.3	3,600.3	19.6	3,600.3	0.17	0.13	0.11
14,293.0	90.52	359.95	10,834.4	3,695.2	19.7	3,695.3	1.31	-1.27	-0.32
14,387.0	91.02	359.77	10,833.2	3,789.2	19.5	3,789.3	0.57	0.53	-0.19
14,481.0	92.54	359.20	10,830.2	3,883.2	18.7	3,883.2	1.73	1.62	-0.61
14,576.0	91.25	359.86	10,827.1	3,978.1	17.9	3,978.2	1.53	-1.36	0.69
14,670.0	89.90	0.47	10,826.1	4,072.1	18.2	4,072.1	1.58	-1.44	0.65
14,765.0	90.07	0.56	10,826.2	4,167.1	19.0	4,167.1	0.20	0.18	0.09
14,859.0	91.81	0.83	10,824.6	4,261.1	20.1	4,261.1	1.87	1.85	0.29
14,953.0	90.27	1.56	10,822.9	4,355.1	22.1	4,355.1	1.81	-1.64	0.78
15,048.0	90.72	2.00	10,822.1	4,450.0	25.1	4,450.1	0.66	0.47	0.46
15,142.0	91.75	2.70	10,820.1	4,543.9	28.9	4,544.0	1.32	1.10	0.74
15,236.0	92.40	2.98	10,816.7	4,637.7	33.6	4,637.8	0.75	0.69	0.30
15,331.0	92.20	2.55	10,812.9	4,732.5	38.1	4,732.7	0.50	-0.21	-0.45
15,425.0	90.63	1.00	10,810.5	4,826.5	41.1	4,826.6	2.35	-1.67	-1.65

Gyrodatta
Survey Report



Company:	XTO Energy Inc.	Local Co-ordinate Reference:	Well Perla Negra Federal Com #4H
Project:	Lea County, NM (NAD27)	TVD Reference:	WELL @ 3807.0usft (Original Well Elev)
Site:	Sec 24, TWN 19-S, RGE 34-E	MD Reference:	WELL @ 3807.0usft (Original Well Elev)
Well:	Perla Negra Federal Com #4H	North Reference:	Grid
Wellbore:	Original Wellbore	Survey Calculation Method:	Minimum Curvature
Design:	Original Wellbore	Database:	EDM 5000.1 Single User Db

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
15,519.0	89.96	1.50	10,810.1	4,920.4	43.1	4,920.6	0.89	-0.71	0.53
15,614.0	90.13	2.73	10,810.0	5,015.4	46.6	5,015.6	1.31	0.18	1.29
15,708.0	89.99	4.15	10,809.9	5,109.2	52.2	5,109.4	1.52	-0.15	1.51
15,802.0	89.73	5.36	10,810.1	5,202.9	60.0	5,203.2	1.32	-0.28	1.29
15,850.3	89.44	6.21	10,810.5	5,250.9	64.9	5,251.2	1.86	-0.60	1.76
LTP Interpolated @ 15850'MD									
15,896.0	89.17	7.01	10,811.0	5,296.3	70.2	5,296.7	1.85	-0.59	1.75
15,932.0	88.84	7.55	10,811.6	5,332.0	74.7	5,332.4	1.76	-0.92	1.50
16,064.0	88.84	7.55	10,814.3	5,462.8	92.1	5,463.3	0.00	0.00	0.00
Straight Line Projection to Bit Depth @ 16064'MD									

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
11,224.2	10,911.0	628.0	7.7	FTP Interpolated @ 11224'MD
15,850.3	10,810.5	5,250.9	64.9	LTP Interpolated @ 15850'MD
16,064.0	10,814.3	5,462.8	92.1	Straight Line Projection to Bit Depth @ 16064'MD

Checked By: _____ Approved By: _____ Date: _____