

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 August 1, 2011

Submit one copy to appropriate District Office

☐ 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, Texas 79701 | | ² OGRID Number 005380 |
| | | ³ Reason for Filing Code/Effective Date NW |
| ⁴ API Number 30-0 15-42924 | ⁵ Pool Name Willow Lake; Bone Spring, SE | ⁶ Pool Code 96217 |
| ⁷ Property Code 314121 | ⁸ Property Name Corral Canyon Federal | ⁹ Well Number 5H |

II. ¹⁰ Surface Location

| | | | | | | | | | |
|---------------|----------|------------|------------|----------|---------------|------------------|---------------|----------------|-------------|
| UL or lot no. | Section | Township | Range | Lot. Idn | Feet from the | North/South Line | Feet from the | East/West line | County |
| M | 4 | 25S | 29E | | 180 | South | 171 | West | Eddy |

¹¹ Bottom Hole Location

| | | | | | | | | | |
|------------------------------------|-------------------------------------|-----------------------------------|-----------------------------------|------------------------------------|-------------------------------------|------------------|---------------|----------------|-------------|
| UL or lot no. | Section | Township | Range | Lot. Idn | Feet from the | North/South Line | Feet from the | East/West line | County |
| 4 | 4 | 25S | 29E | | 198 | North | 641 | West | Eddy |
| ¹² Lsc Code F | ¹³ Producing Method Code | ¹⁴ Gas Connection Date | ¹⁵ C-129 Permit Number | ¹⁶ C-129 Effective Date | ¹⁷ C-129 Expiration Date | | | | |

III. Oil and Gas Transporters

| | | |
|---------------------------------|--|---------------------|
| ¹⁸ Transporter OGRID | ¹⁹ Transporter Name and Address | ²⁰ O/G/W |
| 33479 | HollyFrontier Refining & Marketing LLC 015894 10 Destra Drive Suite 350 W Midland, Texas 79707 | O |
| 36785 | DCP Midstream 5718 Westheimer, Ste 2000 Houston, TX 77057 NM OIL CONSERVATION ARTESIA DISTRICT OCT 28 2015 RECEIVED | G |

IV. Well Completion Data

| | | | | | |
|--|---|--|--|---|-----------------------|
| ²¹ Spud Date 06/02/2015 | ²² Ready Date 08/04/2015 | ²³ TD 7880'/13,270' | ²⁴ PBTD 7880'/13,176' | ²⁵ Perforations 9000-13,128' | ²⁶ DHC. MC |
| ²⁷ Hole Size | ²⁸ Casing & Tubing Size | ²⁹ Depth Set | ³⁰ Sacks Cement | | |
| 17-1/2" | 13-3/8" 54.5# J-55 BTC | 615 | 225 CI C + Cal / TOC: 0' | | |
| 12-1/4" | 9-5/8" 36# J-55 LTC | 2865' | 965sx POZ/C TOC: 0' | | |
| 8-3/4" | 5-1/2" 17# CYP-110 BTC | 13,270' | 2145sx H+ TOC: 2740' | | |
| | 2-7/8" 6.5# L-80 | 7902' | | | |

V. Well Test Data

| | | | | | |
|---|--|--|--|--|-----------------------------|
| ³¹ Date New Oil 08/05/2015 | ³² Gas Delivery Date 08/05/2015 | ³³ Test Date 08/07/2015 | ³⁴ Test Length 24 hrs | ³⁵ Tbg. Pressure 1040 | ³⁶ Csg. Pressure |
| ³⁷ Choke Size 34/64 | ³⁸ Oil 886 | ³⁹ Water 1930 | ⁴⁰ Gas 1796 | ⁴¹ Test Method | |

⁴³ 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: **10/28/2015**

Phone: **432-620-6714**

OIL CONSERVATION DIVISION

Approved by:

RDacle

Title:

Dist H Supervisor

Approval Date:

10-29-15

Pending BLM approvals will
subsequently be reviewed
and scanned *ARD*

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB NO. 1004-0135
Expires: July 31, 2010**SUNDRY NOTICES AND REPORTS ON WELLS**
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.***SUBMIT IN TRIPLICATE - Other instructions on reverse side.**

| | | |
|--|---|--|
| 1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other | | 5. Lease Serial No. NMMN15302 |
| 2. Name of Operator XTO ENERGY, INC | | 6. If Indian, Allottee or Tribe Name |
| Contact: STEPHANIE RABADUE E-Mail: stephanie_rabadue@xtoenergy.com | | 7. If Unit or CA/Agreement, Name and/or No. |
| 3a. Address 500 W. ILLINOIS ST STE 100 MIDLAND, TX 79701 | 3b. Phone No. (include area code) Ph: 432-620-6714 | 8. Well Name and No. CORRAL CANYON FEDERAL 5H |
| 4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 5 T25S R29E Mer NMP 180FSL 171FWL | | 9. API Well No. 30-015-42924 |
| | | 10. Field and Pool, or Exploratory WILLOW LAKE; BS, SO. |
| | | 11. County or Parish, and State EDDY COUNTY, NM |

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

| TYPE OF SUBMISSION | TYPE OF ACTION | | | | |
|---|---|---|--|---|--|
| <input type="checkbox"/> Notice of Intent | <input type="checkbox"/> Acidize | <input type="checkbox"/> Deepen | <input type="checkbox"/> Production (Start/Resume) | <input type="checkbox"/> Water Shut-Off | |
| <input checked="" type="checkbox"/> Subsequent Report | <input type="checkbox"/> Alter Casing | <input type="checkbox"/> Fracture Treat | <input type="checkbox"/> Reclamation | <input type="checkbox"/> Well Integrity | |
| <input type="checkbox"/> Final Abandonment Notice | <input type="checkbox"/> Casing Repair | <input type="checkbox"/> New Construction | <input type="checkbox"/> Recomplete | <input checked="" type="checkbox"/> Other | |
| | <input type="checkbox"/> Change Plans | <input type="checkbox"/> Plug and Abandon | <input type="checkbox"/> Temporarily Abandon | Well Spud | |
| | <input type="checkbox"/> Convert to Injection | <input type="checkbox"/> Plug Back | <input type="checkbox"/> Water Disposal | | |

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompletable horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletable in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

06/02/2015: Spud well @ 18:30am. Drill 17-1/2" hole to 615'.
06/03/2015: Set 13-3/8" 54.5# J-55 BTC surface csg at 615'. Cmt w/225sx CI C w/Calcium, circ 12bbls to surf. WOC. Tested csg to 3000psi. Good test.
06/05-06/08/2015: Drill 12-1/4" intermediate hole to 2865'. Set 9-5/8" 36# J-55 LTC csg at 2865'. Cmt csg w/ 710sx 35/65 POZ C Lead & 255sx CI C Tail w/full returns to surf. WOC. Tested good.
06/09-06/24/2015: Drill & ream 8-3/4" production hole to 13,270'. Set 5-1/2" 17# CYP-110 BTC prod csg at 13,270'. Cmt csg w/2145sx CI H+, TOC: 2740'.

NM OIL CONSERVATION
ARTESIA DISTRICT

OCT 28 2015

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| | |
|--|--------------------------|
| 14. I hereby certify that the foregoing is true and correct. Electronic Submission #321909 verified by the BLM Well Information System For XTO ENERGY, INC, sent to the Carlsbad | |
| Name (Printed/Typed) STEPHANIE RABADUE | Title REGULATORY ANALYST |
| Signature (Electronic Submission) | Date 10/29/2015 |

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

| | |
|---|--------------|
| Approved By _____ | Title _____ |
| Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. | Office _____ |

Pending BLM approvals will
subsequently be reviewed
and scanned *RD*

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 any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

any department or agency of the United States

**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ****

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0135
Expires: July 31, 2010

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

| | | |
|--|---|--|
| 1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other | | 5. Lease Serial No. NMNM15302 |
| 2. Name of Operator XTO ENERGY, INC | | 6. If Indian, Allottee or Tribe Name |
| Contact: STEPHANIE RABADUE E-Mail: stephanie_rabadue@xtoenergy.com | | 7. If Unit or CA/Agreement, Name and/or No. |
| 3a. Address 500 W. ILLINOIS ST STE 100 MIDLAND, TX 79701 | 3b. Phone No. (include area code) Ph: 432-620-6714 | 8. Well Name and No. CORRAL CANYON FEDERAL 5H |
| 4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 5 T25S R29E Mer NMP 180FSL 171FWL | | 9. API Well No. 30-015-42924 |
| | | 10. Field and Pool, or Exploratory WILLOW LAKE; BS, SO. |
| | | 11. County or Parish, and State EDDY COUNTY, NM |

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

| TYPE OF SUBMISSION | TYPE OF ACTION | | | |
|---|---|---|--|---|
| <input type="checkbox"/> Notice of Intent | <input type="checkbox"/> Acidize | <input type="checkbox"/> Deepen | <input type="checkbox"/> Production (Start/Resume) | <input type="checkbox"/> Water Shut-Off |
| <input checked="" type="checkbox"/> Subsequent Report | <input type="checkbox"/> Alter Casing | <input type="checkbox"/> Fracture Treat | <input type="checkbox"/> Reclamation | <input type="checkbox"/> Well Integrity |
| <input type="checkbox"/> Final Abandonment Notice | <input type="checkbox"/> Casing Repair | <input type="checkbox"/> New Construction | <input type="checkbox"/> Recomplete | <input checked="" type="checkbox"/> Other |
| | <input type="checkbox"/> Change Plans | <input type="checkbox"/> Plug and Abandon | <input type="checkbox"/> Temporarily Abandon | Production Start-up |
| | <input type="checkbox"/> Convert to Injection | <input type="checkbox"/> Plug Back | <input type="checkbox"/> Water Disposal | |

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

07/03/2015: Run CBL. TOC: 2740?

07/13-07/26/2015: MIRU frac equip. Prep for frac. Perf & Plug Frac well in 15 stages
fr/9000?-13,129? w/35,088lbs CoolSet 20/40 sand, 75,439lbs White 20/40 sand, 2526gals HCl 10-30%
acid & 43,765gals water.

07/28-08/03/2015: MIRU Equip for CO. CO well & plugs. RIH w/tbg & pkr. Set pkr @ 7902?. Test pkr to
500psi. Tests good.

08/04/2015: Well on prod. Flowing.

NM OIL CONSERVATION
ARTESIA DISTRICT

OCT 28 2015

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| | |
|--|--------------------------|
| 14. I hereby certify that the foregoing is true and correct. Electronic Submission #321910 verified by the BLM Well Information System For XTO ENERGY, INC, sent to the Carlsbad | |
| Name (Printed/Typed) STEPHANIE RABADUE | Title REGULATORY ANALYST |
| Signature (Electronic Submission) | Date 10/29/2015 |

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

| | |
|---|--------------|
| Approved By _____ | Title _____ |
| Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. | Office _____ |

Pending BLM approvals will
subsequently be reviewed
and scanned *MD*

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
States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Department or agency of the United

**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ****

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.
NMNM15302

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.

8. Lease Name and Well No.
CORRAL CANYON FEDERAL 5H9. API Well No.
30-015-4292410. Field and Pool, or Exploratory
WILLOW LAKE; BS, SO.11. Sec., T., R., M., or Block and Survey
or Area Sec 5 T2S R29E Mer NMP12. County or Parish
EDDY13. State
NM17. Elevations (DF, KB, RT, GL)*
2945 GL1a. Type of Well ☒ Oil Well ☐ Gas Well ☐ Dry ☐ Otherb. Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.
Other2. Name of Operator
XTO ENERGY, INCContact: STEPHANIE RABADUE
E-Mail: stephanie_rabadue@xtoenergy.com3. Address 500 W. ILLINOIS ST STE 100
MIDLAND, TX 797013a. Phone No. (include area code)
Ph: 432-620-6714

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

At surface 180FSL 171FWL

At top prod interval reported below 852FSL 388FWL

At total depth 180FSL 171FWL

NM OIL CONSERVATION

ARTESIA DISTRICT

OCT 28 2015

14. Date Spudded
06/02/201515. Date T.D. Reached
06/22/201516. Date Completed
☐ D & A ☒ Ready to Prod.
08/02/201518. Total Depth: MD 13270
TVD 788019. Plug Back T.D.: MD 13176
TVD 788020. Depth Bridge Plug Set: MD
TVD21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
CBL22. 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 Sks. & Type of Cement | Slurry Vol. (BBL) | Cement Top* | Amount Pulled |
|-----------|---------------|-------------|----------|-------------|----------------------|------------------------------|-------------------|-------------|---------------|
| 17.500 | 13.375 J-55 | 54.5 | 0 | 615 | | 225 | | 0 | 0 |
| 12.250 | 9.625 J-55 | 36.0 | 0 | 2865 | | 965 | | 0 | 0 |
| 8.750 | 5.500 CYP-110 | 17.0 | 0 | 13270 | | 2145 | | 2740 | 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 | 7902 | 7902 | | | | | | |

25. Producing Intervals

26. Perforation Record

| Formation | Top | Bottom | Perforated Interval | Size | No. Holes | Perf. Status |
|---------------------|------|--------|---------------------|------|-----------|--------------|
| A) BONE SPRING SAND | 6620 | 8643 | 9000 TO 13129 | | | PRODUCING |
| B) | | | | | | |
| C) | | | | | | |
| D) | | | | | | |

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

| Depth Interval | Amount and Type of Material |
|----------------|--|
| 9000 TO 13129 | FRAC WELL IN 15 STAGES FR/9000-13,129' W/35,088LBS COOLSET 20/40 SAND, 75,439LBS WHITE 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 |
|---------------------|----------------------|--------------|-----------------|---------|---------|-----------|-----------------------|-------------|-------------------|
| 08/05/2015 | 08/07/2015 | 24 | → | 886.0 | 1796.0 | 1930.0 | 44.6 | | FLows FROM WELL |
| Choke Size | Tbg. Press. Flwg. SI | Csg. Press. | 24 Hr. Rate | Oil BBL | Gas MCF | Water BBL | Gas:Oil Ratio | Well Status | |
| 34/64 | 1040 | | → | 868 | 1796 | 1930 | 2027 | 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. SI | Csg. Press. | 24 Hr. Rate | Oil BBL | Gas MCF | Water BBL | Gas:Oil Ratio | Well Status | |
| | | | → | | | | | | |

Pending BLM approvals will
subsequently be reviewed
and scanned *MD*

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

ELECTRONIC SUBMISSION #321914 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED **

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 | 274 | | | |
| SALT | 274 | 2686 | | | |
| DELAWARE | 2686 | 2883 | | | |
| CHERRY CANYON | 2883 | 3785 | | | |
| BRUSHY CANYON | 3785 | 6388 | | | |
| BONE SPRING | 6388 | 8643 | | | |

32. Additional remarks (include plugging procedure):

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 #321914 Verified by the BLM Well Information System.
For XTO ENERGY, INC, sent to the Carlsbad

Name (please print) STEPHANIE RABADUETitle REGULATORY ANALYSTSignature (Electronic Submission)Date 10/29/2015

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.

**** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ****



NorAm Drilling Company

A GLOBAL RIG COMPANY ASA

30 015 42924

Operator: XTO Energy

Well & Lease Number: CORRAL CANYON FEDERAL 5H

County: Eddy

NM OIL CONSERVATION
ARTESIA DISTRICT

OCT 28 2015

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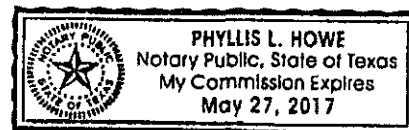
State of New Mexico

Deviation Report

| Footage | Degree |
|---------|--------|
| 300 | 0.81 |
| 600 | 1.25 |
| 900 | 0.96 |
| 1200 | 0.94 |
| 1500 | 0.49 |
| 1800 | 0.44 |
| 2100 | 0.64 |
| 2600 | 0.88 |
| 3100 | 0.76 |
| 3600 | 0.22 |
| 4100 | 0.32 |
| 4600 | 0.48 |
| 5100 | 1.08 |
| 5600 | 1.42 |
| 6100 | 0.66 |
| 6600 | 0.70 |
| 7100 | 2.33 |
| 7600 | 1.85 |
| 7857 | 1.90 |

Completed by: Will Luker

Will Luker, Safety Director
NorAm Drilling Company



Appeared before me on: 9/1/15

Notary Public: Phyllis L. Howe

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

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

www.noramdrilling.com



Job Number: SVMO-150456
Company: XTO Energy
Lease/Well: Corral Canyon Federal 5H
Location: Eddy County, NM
Rig Name: Noram #25
RKB: 25'
G.L. or M.S.L.: GL

State/Country: New Mexico/USA
Declination: 7.15°
Grid: East To Grid North
File name: W:\WINSER-1\2015SU-1\XTOENE-1\MO\CORRAL-25H.SVY
Date/Time: 15-Jun-15 / 09:16
Curve Name: Surface - 7800' M.D. (Rate Gyro)

MS Survey

WINSERVE SURVEY CALCULATIONS

Minimum Curvature Method

Vertical Section Plane .00

Vertical Section Referenced to Wellhead

Rectangular Coordinates Referenced to Wellhead

We hereby certify that our survey data from
Surface MD to 7800' MD is, to the best of
our knowledge a true and accurate account of
the well bore.

Curtis P. Bingham 6/15/15
MS Energy Services Date

| Measured Depth FT | Incl Angle Deg | Drift Direction Deg | True Vertical Depth | N-S FT | E-W FT | Vertical Section FT | CLOSURE Distance FT | Direction Deg | Dogleg Severity Deg/100 |
|-------------------------|----------------------|---------------------------|---------------------------|-----------|-----------|---------------------------|---------------------------|------------------|-------------------------------|
| .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| 100.00 | .17 | 101.20 | 100.00 | -.03 | .15 | -.03 | .15 | 101.20 | .17 |
| 200.00 | .51 | 106.51 | 200.00 | -.18 | .72 | -.18 | .74 | 104.39 | .34 |
| 300.00 | .81 | 95.91 | 299.99 | -.38 | 1.85 | -.38 | 1.89 | 101.72 | .32 |
| 400.00 | .91 | 110.24 | 399.98 | -.73 | 3.30 | -.73 | 3.38 | 102.50 | .24 |
| 500.00 | .97 | 101.48 | 499.97 | -1.17 | 4.87 | -1.17 | 5.01 | 103.55 | .16 |
| 600.00 | 1.25 | 97.32 | 599.95 | -1.48 | 6.78 | -1.48 | 6.94 | 102.32 | .29 |
| 700.00 | .85 | 64.33 | 699.93 | -1.30 | 8.53 | -1.30 | 8.63 | 98.66 | .71 |
| 800.00 | 1.24 | 23.96 | 799.92 | .01 | 9.64 | .01 | 9.64 | 89.93 | .81 |
| 900.00 | .96 | 16.43 | 899.90 | 1.80 | 10.32 | 1.80 | 10.47 | 80.08 | .31 |
| 1000.00 | .58 | 310.06 | 999.89 | 2.93 | 10.17 | 2.93 | 10.58 | 73.91 | .90 |
| 1100.00 | .63 | 233.23 | 1099.89 | 2.93 | 9.34 | 2.93 | 9.79 | 72.58 | .75 |
| 1200.00 | .94 | 125.16 | 1199.88 | 2.13 | 9.57 | 2.13 | 9.80 | 77.46 | 1.28 |

| Measured Depth FT | Incl Angle Deg | Drift Direction Deg | True Vertical Depth | N-S FT | E-W FT | Vertical Section FT | CLOSURE | | Dogleg Severity Deg/100 |
|-------------------------|----------------------|---------------------------|---------------------------|-----------|-----------|---------------------------|----------------|------------------|-------------------------------|
| | | | | | | | Distance FT | Direction Deg | |
| 1300.00 | .87 | 65.40 | 1299.87 | 1.97 | 10.93 | 1.97 | 11.11 | 79.78 | .90 |
| 1400.00 | .64 | 341.84 | 1399.86 | 2.82 | 11.45 | 2.82 | 11.79 | 76.17 | 1.02 |
| 1500.00 | .49 | 176.77 | 1499.86 | 2.92 | 11.30 | 2.92 | 11.67 | 75.50 | 1.12 |
| 1600.00 | 1.33 | 67.83 | 1599.85 | 2.93 | 12.39 | 2.93 | 12.74 | 76.69 | 1.56 |
| 1700.00 | .88 | 327.50 | 1699.84 | 4.02 | 13.06 | 4.02 | 13.66 | 72.89 | 1.72 |
| 1800.00 | .44 | 214.39 | 1799.84 | 4.35 | 12.43 | 4.35 | 13.17 | 70.71 | 1.13 |
| 1900.00 | 1.10 | 78.03 | 1899.83 | 4.23 | 13.15 | 4.23 | 13.81 | 72.16 | 1.45 |
| 2000.00 | .92 | 325.75 | 1999.82 | 5.09 | 13.64 | 5.09 | 14.56 | 69.52 | 1.68 |
| 2100.00 | .64 | 187.81 | 2099.82 | 5.20 | 13.11 | 5.20 | 14.10 | 68.35 | 1.46 |
| 2200.00 | .98 | 56.72 | 2199.81 | 5.12 | 13.75 | 5.12 | 14.67 | 69.57 | 1.48 |
| 2300.00 | .56 | 312.13 | 2299.81 | 5.92 | 14.10 | 5.92 | 15.29 | 67.23 | 1.25 |
| 2400.00 | 1.02 | 154.98 | 2399.80 | 5.44 | 14.11 | 5.44 | 15.13 | 68.93 | 1.55 |
| 2500.00 | .87 | 117.00 | 2499.79 | 4.29 | 15.17 | 4.29 | 15.76 | 74.21 | .63 |
| 2600.00 | .88 | 33.77 | 2599.78 | 4.58 | 16.27 | 4.58 | 16.90 | 74.27 | 1.16 |
| 2700.00 | .51 | 267.96 | 2699.78 | 5.20 | 16.25 | 5.20 | 17.07 | 72.25 | 1.25 |
| 2800.00 | .50 | 93.75 | 2799.78 | 5.16 | 16.24 | 5.16 | 17.04 | 72.38 | 1.01 |
| 2900.00 | .75 | 40.89 | 2899.77 | 5.63 | 17.11 | 5.63 | 18.01 | 71.80 | .60 |
| 3000.00 | .55 | 35.77 | 2999.77 | 6.51 | 17.82 | 6.51 | 18.97 | 69.93 | .21 |
| 3100.00 | .76 | 40.75 | 3099.76 | 7.40 | 18.53 | 7.40 | 19.95 | 68.23 | .22 |
| 3200.00 | .40 | 48.40 | 3199.75 | 8.14 | 19.22 | 8.14 | 20.87 | 67.06 | .37 |
| 3300.00 | .18 | 330.74 | 3299.75 | 8.50 | 19.41 | 8.50 | 21.19 | 66.34 | .40 |
| 3400.00 | .15 | 358.14 | 3399.75 | 8.77 | 19.33 | 8.77 | 21.22 | 65.59 | .08 |
| 3500.00 | .21 | 80.88 | 3499.75 | 8.93 | 19.50 | 8.93 | 21.45 | 65.39 | .24 |
| 3600.00 | .22 | 32.64 | 3599.75 | 9.12 | 19.79 | 9.12 | 21.79 | 65.25 | .18 |
| 3700.00 | .33 | 24.51 | 3699.75 | 9.55 | 20.01 | 9.55 | 22.17 | 64.49 | .12 |
| 3800.00 | .20 | 40.85 | 3799.75 | 9.94 | 20.24 | 9.94 | 22.55 | 63.85 | .15 |
| 3900.00 | .16 | 304.18 | 3899.75 | 10.15 | 20.24 | 10.15 | 22.65 | 63.37 | .27 |
| 4000.00 | .28 | 232.30 | 3999.75 | 10.08 | 19.93 | 10.08 | 22.34 | 63.18 | .28 |
| 4100.00 | .32 | 224.60 | 4099.75 | 9.73 | 19.54 | 9.73 | 21.83 | 63.53 | .06 |
| 4200.00 | .29 | 220.14 | 4199.75 | 9.34 | 19.19 | 9.34 | 21.34 | 64.04 | .04 |
| 4300.00 | .32 | 167.54 | 4299.74 | 8.87 | 19.08 | 8.87 | 21.05 | 65.06 | .27 |
| 4400.00 | .13 | 232.91 | 4399.74 | 8.53 | 19.05 | 8.53 | 20.88 | 65.87 | .29 |
| 4500.00 | .59 | 178.69 | 4499.74 | 7.95 | 18.97 | 7.95 | 20.57 | 67.27 | .52 |
| 4600.00 | .48 | 176.13 | 4599.74 | 7.02 | 19.01 | 7.02 | 20.27 | 69.74 | .11 |

| Measured Depth FT | Incl Angle Deg | Drift Direction Deg | True Vertical Depth | N-S FT | E-W FT | Vertical Section FT | CLOSURE Distance FT | CLOSURE Direction Deg | Dogleg Severity Deg/100 |
|-----------------------------------|----------------------|---------------------------|---------------------------|-----------|-----------|---------------------------|---------------------------|-----------------------------|-------------------------------|
| 4700.00 | .45 | 193.60 | 4699.73 | 6.22 | 18.95 | 6.22 | 19.94 | 71.84 | .14 |
| 4800.00 | .73 | 198.64 | 4799.73 | 5.23 | 18.65 | 5.23 | 19.37 | 74.33 | .28 |
| 4900.00 | .73 | 186.90 | 4899.72 | 4.00 | 18.37 | 4.00 | 18.80 | 77.73 | .15 |
| 5000.00 | .67 | 197.21 | 4999.71 | 2.81 | 18.12 | 2.81 | 18.34 | 81.20 | .14 |
| 5100.00 | 1.08 | 199.42 | 5099.70 | 1.36 | 17.64 | 1.36 | 17.69 | 85.60 | .41 |
| 5200.00 | 1.22 | 218.23 | 5199.68 | -.37 | 16.67 | -.37 | 16.67 | 91.26 | .40 |
| 5300.00 | 1.23 | 211.00 | 5299.66 | -2.12 | 15.45 | -2.12 | 15.60 | 97.82 | .15 |
| 5400.00 | 1.10 | 222.76 | 5399.64 | -3.75 | 14.25 | -3.75 | 14.73 | 104.74 | .27 |
| 5500.00 | 1.13 | 221.67 | 5499.62 | -5.19 | 12.94 | -5.19 | 13.94 | 111.85 | .04 |
| 5600.00 | 1.42 | 221.75 | 5599.59 | -6.85 | 11.46 | -6.85 | 13.35 | 120.87 | .29 |
| 5700.00 | 1.32 | 222.10 | 5699.57 | -8.63 | 9.86 | -8.63 | 13.11 | 131.18 | .10 |
| 5800.00 | 1.31 | 227.88 | 5799.54 | -10.25 | 8.24 | -10.25 | 13.15 | 141.19 | .13 |
| 5900.00 | 1.31 | 227.94 | 5899.51 | -11.78 | 6.55 | -11.78 | 13.48 | 150.94 | .00 |
| 6000.00 | .84 | 238.83 | 5999.50 | -12.93 | 5.07 | -12.93 | 13.89 | 158.58 | .51 |
| 6100.00 | .66 | 232.45 | 6099.49 | -13.66 | 3.99 | -13.66 | 14.23 | 163.72 | .20 |
| 6200.00 | .88 | 251.50 | 6199.48 | -14.25 | 2.80 | -14.25 | 14.53 | 168.87 | .33 |
| 6300.00 | .75 | 226.21 | 6299.47 | -14.95 | 1.60 | -14.95 | 15.04 | 173.88 | .38 |
| 6400.00 | .55 | 255.37 | 6399.46 | -15.52 | .67 | -15.52 | 15.54 | 177.54 | .38 |
| 6500.00 | .65 | 262.06 | 6499.46 | -15.72 | -.36 | -15.72 | 15.73 | 181.31 | .12 |
| 6600.00 | .70 | 248.62 | 6599.45 | -16.02 | -1.49 | -16.02 | 16.09 | 185.32 | .17 |
| 6700.00 | .69 | 179.25 | 6699.44 | -16.85 | -2.05 | -16.85 | 16.97 | 186.94 | .79 |
| 6800.00 | .30 | 210.06 | 6799.44 | -17.68 | -2.18 | -17.68 | 17.81 | 187.01 | .46 |
| 6900.00 | .63 | 299.15 | 6899.44 | -17.64 | -2.79 | -17.64 | 17.86 | 188.98 | .69 |
| 7000.00 | 2.61 | 311.11 | 6999.39 | -15.87 | -4.98 | -15.87 | 16.64 | 197.43 | 2.00 |
| 7100.00 | 2.33 | 297.58 | 7099.30 | -13.43 | -8.50 | -13.43 | 15.90 | 212.32 | .64 |
| 7200.00 | 2.27 | 281.14 | 7199.22 | -12.11 | -12.24 | -12.11 | 17.22 | 225.32 | .66 |
| 7300.00 | 1.77 | 258.47 | 7299.16 | -12.04 | -15.70 | -12.04 | 19.78 | 232.53 | .93 |
| 7400.00 | 1.69 | 255.28 | 7399.12 | -12.72 | -18.64 | -12.72 | 22.57 | 235.69 | .13 |
| 7500.00 | 1.30 | 255.63 | 7499.08 | -13.38 | -21.17 | -13.38 | 25.04 | 237.71 | .39 |
| 7600.00 | 1.85 | 248.59 | 7599.04 | -14.25 | -23.77 | -14.25 | 27.71 | 239.06 | .58 |
| 7700.00 | 1.32 | 266.08 | 7699.00 | -14.91 | -26.42 | -14.91 | 30.34 | 240.55 | .71 |
| Last Survey Depth Recorded | | | | | | | | | |
| 7800.00 | 2.56 | 301.88 | 7798.95 | -13.81 | -29.46 | -13.81 | 32.54 | 244.88 | 1.68 |