

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCO Artesia
BLM Carlsbad Field Office

FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2014

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.**

5. Lease Serial No.
NM-019246

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2.

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator
XTO ENERGY, INC.

3a. Address
200 N. LORAIN, SUITE 800
MIDLAND, TEXAS 79701

3b. Phone No. (include area code)
432-620-6714 STEPHANIE RABADUE

7. If Unit of CA/Agreement, Name and/or No.
NASH UNIT NMNM-70992X

8. Well Name and No.
NASH UNIT #45H

9. API Well No.
30-015-42048

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
SHL: 550 FNL & 1650 FWL, SECTION 18, T. 23 S., R. 30 E.
BHL: 330 FNL & 2310 FWL, SECTION 6, T. 23 S., R. 30 E.

10. Field and Pool or Exploratory Area
NASH DRAW; BRUSHY CANYON DELAWARE

11. County or Parish, State
EDDY, NM

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

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
	☒ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	MOVED LOCATION
	☐ Convert to Injection	☐ Plug Back	☐ 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 must 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 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

XTO ENERGY, INC. HAS MOVED THE PREVIOUSLY APPROVED SURFACE LOCATION FROM 550 FNL & 1250 FWL TO 550 FNL & 1565' ~~1650~~ FWL STILL IN SECTION 18, T. 23 S., R. 30 E. AN ON-SITE WITH BLM (JESSE RICE) HAS BEEN CONDUCTED ON THIS 400' MOVE.

XTO ALSO PROPOSES TO CHANGE THE BHL FROM 330 FNL & 1980 FWL TO 330 FNL & 2310 FWL STILL IN SECTION 6, T. 23 S., R. 30 E.

THE TVD WILL REMAIN THE SAME AT 6974' AND THE MD WILL CHANGE FROM 17,528' TO 17,523.64'. A NEW HORIZONTAL LATERAL PLAN IS ATTACHED.

EVERYTHING ELSE OF THE ORIGINAL APD PACKAGE WILL REMAIN THE SAME.

AN ARCHAEOLOGICAL REPORT FROM BOONE ARCHAEOLOGICAL SERVICES WILL BE FORWARDED TO THE CARLSBAD FIELD OFFICE FOR THE NEW SURFACE LOCATION AND SHORT ACCESS ROAD.

Surface Location moved again on 5/8/14 due to pipeline. JR 6/18/14

Eng. Rev. Original COAs still apply JAM 6/25/14

Surface OK, Original COAs still apply. JR 6/25/14

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)

BARRY W. HUNT

Title PERMIT AGENT FOR XTO ENERGY, INC.

Signature

Date

2/21/14

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

/s/ STEPHEN J. CAFFEY

Title

Date

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.

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.

(Instructions on page 2)

NM OIL CONSERVATION
ARTESIA DISTRICT
JUN 30 2014
RECEIVED

Accepted for record

NMOC 109

6/25/14

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

DISTRICT II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

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

DAMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30 - 015 - 42048	Pool Code 475416	Pool Name Nash Draw, Delaware
Property Code 303152	Property Name NASH UNIT	Well Number 45H
OGRID No. 005380	Operator Name XTO ENERGY	Elevation 3015'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	18	23-S	30-E		550	NORTH	1565	WEST	EDDY

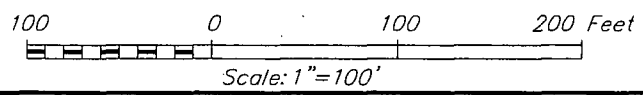
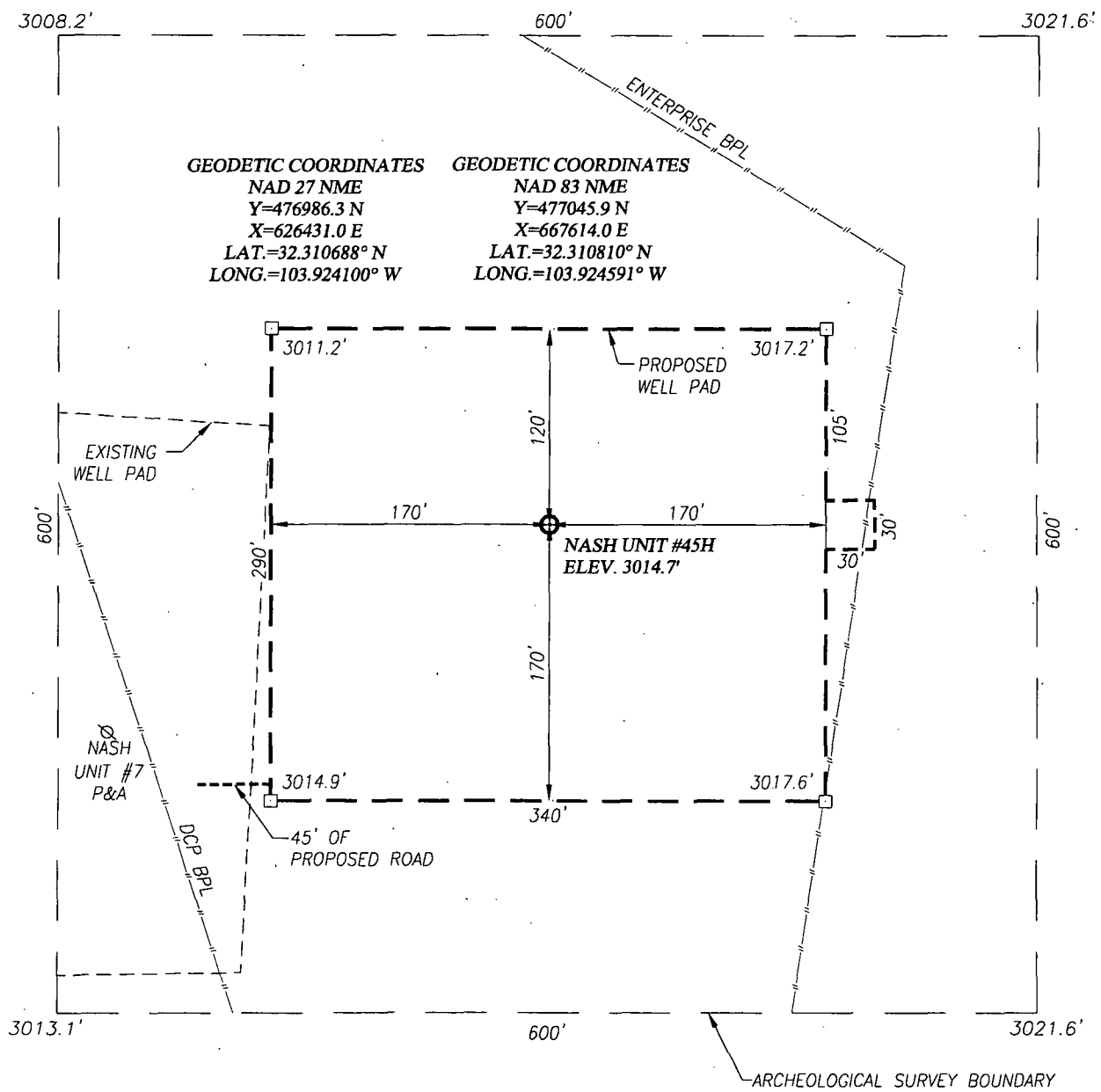
Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
3	6	23-S	30-E		330	NORTH	2310	WEST	EDDY

Dedicated Acres 300.16	Joint or Infill	Consolidation Code	Order No.
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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' GEODETIC COORDINATES NAD 27 NME BOTTOM HOLE LOCATION & LAST TAKE POINT Y=487826.6 N X=627124.0 E LAT.=32.340480° N LONG.=103.921722° W GEODETIC COORDINATES NAD 83 NME BOTTOM HOLE LOCATION & LAST TAKE POINT Y=487886.5 N X=668306.7 E LAT.=32.340602° N LONG.=103.922214° W CORNER COORDINATES TABLE NAD 27 NME A - Y=476210.9 N, X=627549.7 E B - Y=476209.1 N, X=626212.7 E C - Y=477536.0 N, X=626206.2 E D - Y=477537.1 N, X=627542.8 E E - Y=482847.4 N, X=626180.7 E F - Y=482846.4 N, X=627519.8 E G - Y=488155.0 N, X=626184.0 E H - Y=488156.7 N, X=627522.2 E CORNER COORDINATES TABLE NAD 83 NME A - Y=476270.6 N, X=668732.7 E B - Y=476268.8 N, X=667395.7 E C - Y=477595.7 N, X=667389.2 E D - Y=477596.7 N, X=668725.8 E E - Y=482907.2 N, X=667363.6 E F - Y=482906.3 N, X=668702.6 E G - Y=488214.9 N, X=667366.7 E H - Y=488216.7 N, X=668704.9 E GEODETIC COORDINATES NAD 27 NME FIRST TAKE POINT Y=477866.2 N X=626487.2 E LAT.=32.313106° N LONG.=103.923907° W GEODETIC COORDINATES NAD 83 NME FIRST TAKE POINT Y=477925.9 N X=667670.3 E LAT.=32.313228° N LONG.=103.924398° W GEODETIC COORDINATES NAD 27 NME SURFACE LOCATION Y=476986.3 N X=626431.0 E LAT.=32.310688° N LONG.=103.924100° W GEODETIC COORDINATES NAD 83 NME SURFACE LOCATION Y=477045.9 N X=667614.0 E LAT.=32.310810° N LONG.=103.924591° 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. <i>A. Rabadue</i> 6-20-14 Signature Date <i>Stephanie Rabadue</i> Printed Name <i>Stephanie - rabadue@xtoenergy.com</i> 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. MAY 12, 2014 Date of Survey Signed and sealed as Professional Surveyor: <i>Gary G. Eidson</i> 06/20/2014 Certificate Number Gary G. Eidson 12641 Ronald J. Eidson 3239 ACK REV. 6/20/14 JWSC W.O. 14.11.0497
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DIRECTIONS TO NASH UNIT #45H:

FROM THE INTERSECTION OF ST. HIGHWAY 128 AND CO. RD. 793 (RAWHIDE ROAD), GO SOUTH ON RAWHIDE ROAD APPROX. 2.6 MILES. TURN LEFT AND GO EAST APPROX. 0.2 MILES TO BEGIN ROAD SURVEY STAKE. FOLLOW SURVEY 45 FEET TO THE LOCATION.

PROVIDING SURVEYING SERVICES
SINCE 1946

JOHN WEST SURVEYING COMPANY

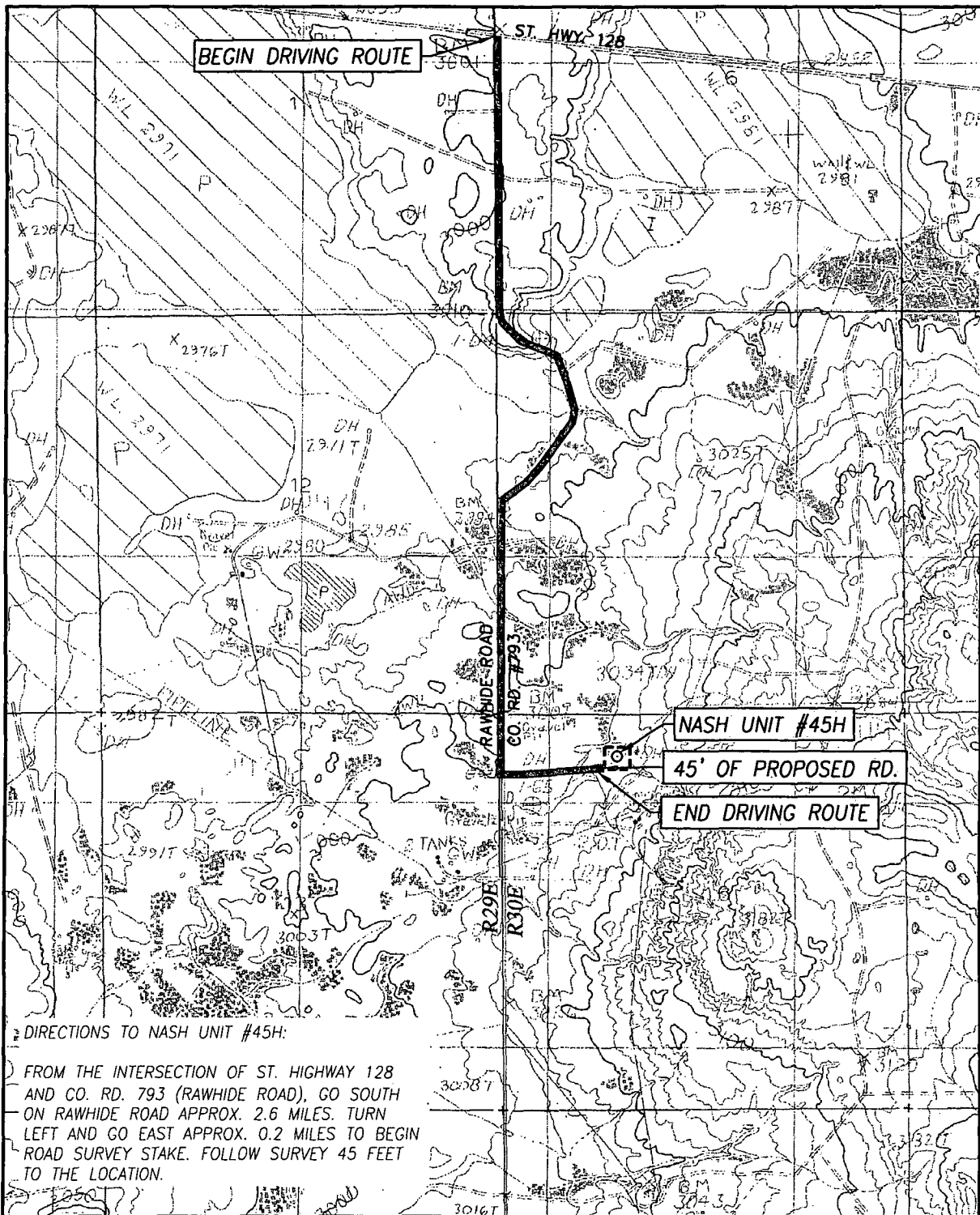
412 N. DAL PASO · HOBBS, N.M. 88240
 (575) 393-3117 www.jwsc.biz
 TBPLS# 10021000

XTO ENERGY

NASH UNIT #45H WELL
 LOCATED 550 FEET FROM THE NORTH LINE
 AND 1565 FEET FROM THE WEST LINE OF SECTION 18,
 TOWNSHIP 23 SOUTH, RANGE 30 EAST, N.M.P.M.,
 EDDY COUNTY, NEW MEXICO

Survey Date: 5/12/14	CAD Date: 6/5/14	Drawn By: ACK
W.O. No.: 14110497	Rev: 6/17/14	Rel. W.O.:
		Sheet 1 of 1

LOCATION VERIFICATION MAP



SEC. 18 TWP. 23-S RGE. 30-E
 COUNTY EDDY STATE NEW MEXICO
 DESCRIPTION 550' FNL & 1656' FWL
 ELEVATION 3015'
 OPERATOR XTO ENERGY
 LEASE NASH UNIT
 U.S.G.S. TOPOGRAPHIC MAP
 REMUDA BASIN, N.M. SURVEY N.M.P.M.

SCALE: 1" = 2000'

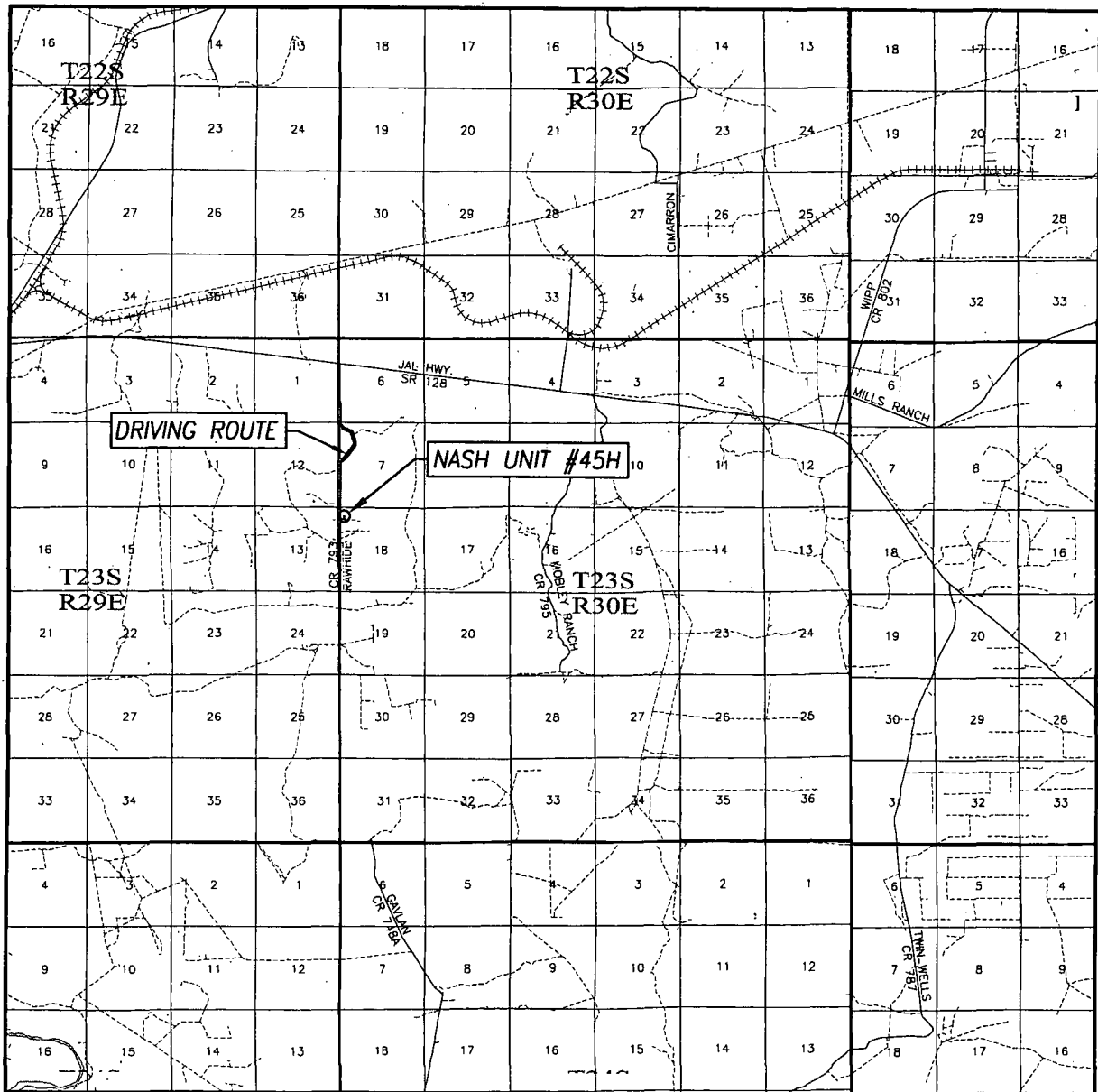
CONTOUR INTERVAL:
 REMUDA BASIN, N.M. - 10'



PROVIDING SURVEYING SERVICES
 SINCE 1946
JOHN WEST SURVEYING COMPANY

412 N. DAL PASO HOBBS, N.M. 88240
 (575) 393-3117 www.jwsc.biz
 TBPLS# 10021000

VICINITY MAP



SCALE: 1" = 2 MILES
 DRIVING ROUTE: SEE LOCATION VERIFICATION MAP

SEC. 18 TWP. 23-S RGE. 30-E

SURVEY N.M.P.M.

COUNTY EDDY STATE NEW MEXICO

DESCRIPTION 550' FNL & 1656' FWL

ELEVATION 3015'

OPERATOR XTO ENERGY

LEASE NASH UNIT

PROVIDING SURVEYING SERVICES
 SINCE 1946

JOHN WEST SURVEYING COMPANY

412 N. DAL PASO HOBBS, N.M. 88240
 (575) 393-3117 www.jwsc.biz
 TBPLS# 10021000

XTO Energy Inc.

HALLIBURTON

Sperry Drilling



Project: Eddy County, NM (NAD27)
Site: Nash Unit
Well: Nash Unit No 45H
Wellbore: Wellbore #1
Plan: Plan #4
Rig: Pioneer 33

SURFACE LOCATION

US State Plane 1927 (Exact solution)
 New Mexico East 3001
 Elevation: GL 3015' + KB 17' @ 3032.00usft (Pioneer 33)
Northing **Easting** **Latitude** **Longitude**
 476986.30 626431.00 32° 18' 38.478 N 103° 55' 26.760 W

To convert a Magnetic Direction to a Grid Direction, Add 7.33°

Magnetic Model: BGGM2014 Date: 23-Jun-14
 Azimuths to Grid North

CASING DETAILS

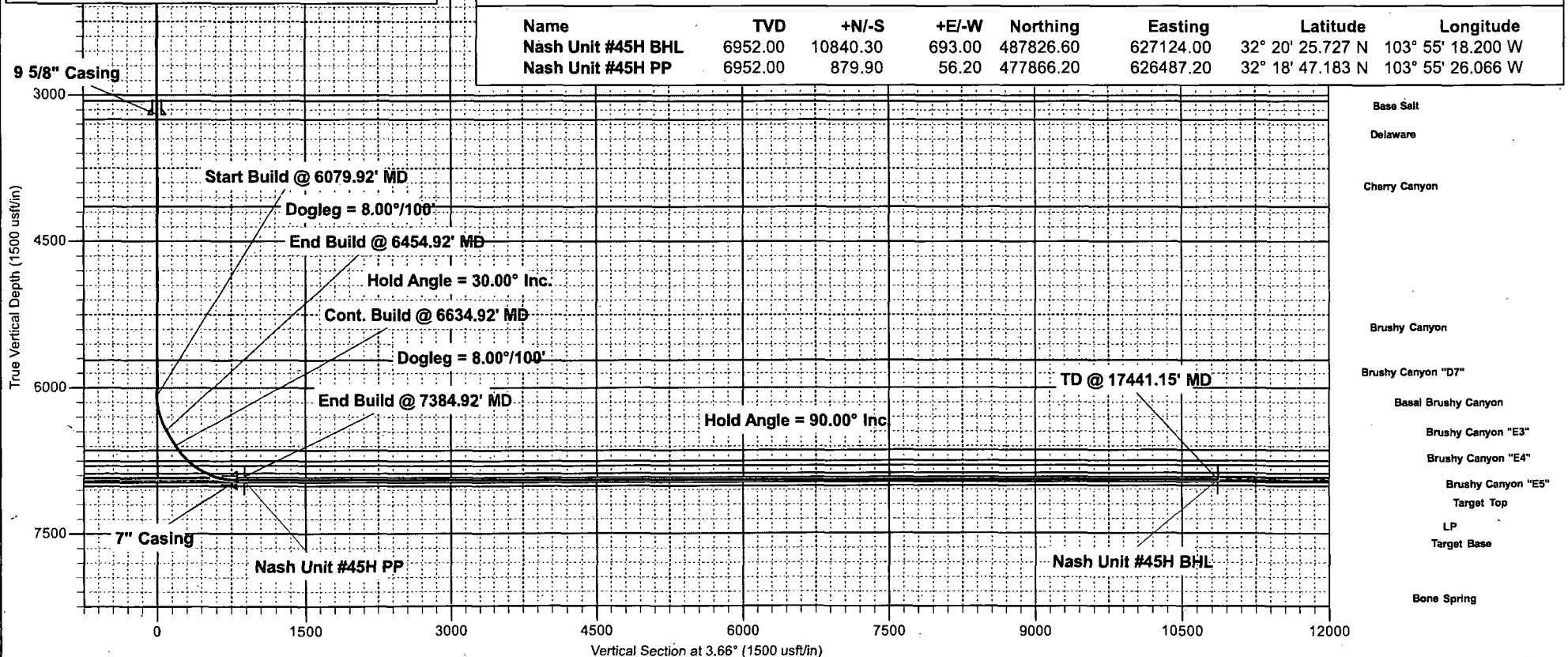
TVD	MD	Name
175.00	175.00	13 3/8" Casing
3200.00	3200.00	9 5/8" Casing
6952.00	7384.92	7" Casing

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6079.92	0.00	0.00	6079.92	0.00	0.00	0.00	0.00	0.00	Start Build
6454.92	30.00	3.66	6438.02	95.76	6.12	8.00	3.66	95.95	End Build
6634.92	30.00	3.66	6593.90	185.57	11.86	0.00	0.00	185.95	Cont. Build
7384.92	90.00	3.66	6952.00	804.55	51.43	8.00	0.00	806.20	End Build
17441.15	90.00	3.66	6952.00	10840.30	693.00	0.00	0.00	10862.43	TD

WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Nash Unit #45H BHL	6952.00	10840.30	693.00	487826.60	627124.00	32° 20' 25.727 N	103° 55' 18.200 W
Nash Unit #45H PP	6952.00	879.90	56.20	477866.20	626487.20	32° 18' 47.183 N	103° 55' 26.066 W



Project: Eddy County, NM (NAD27)
Site: Nash Unit
Well: Nash Unit No 45H
Wellbore: Wellbore #1
Plan: Plan #4
Rig: Pioneer 33

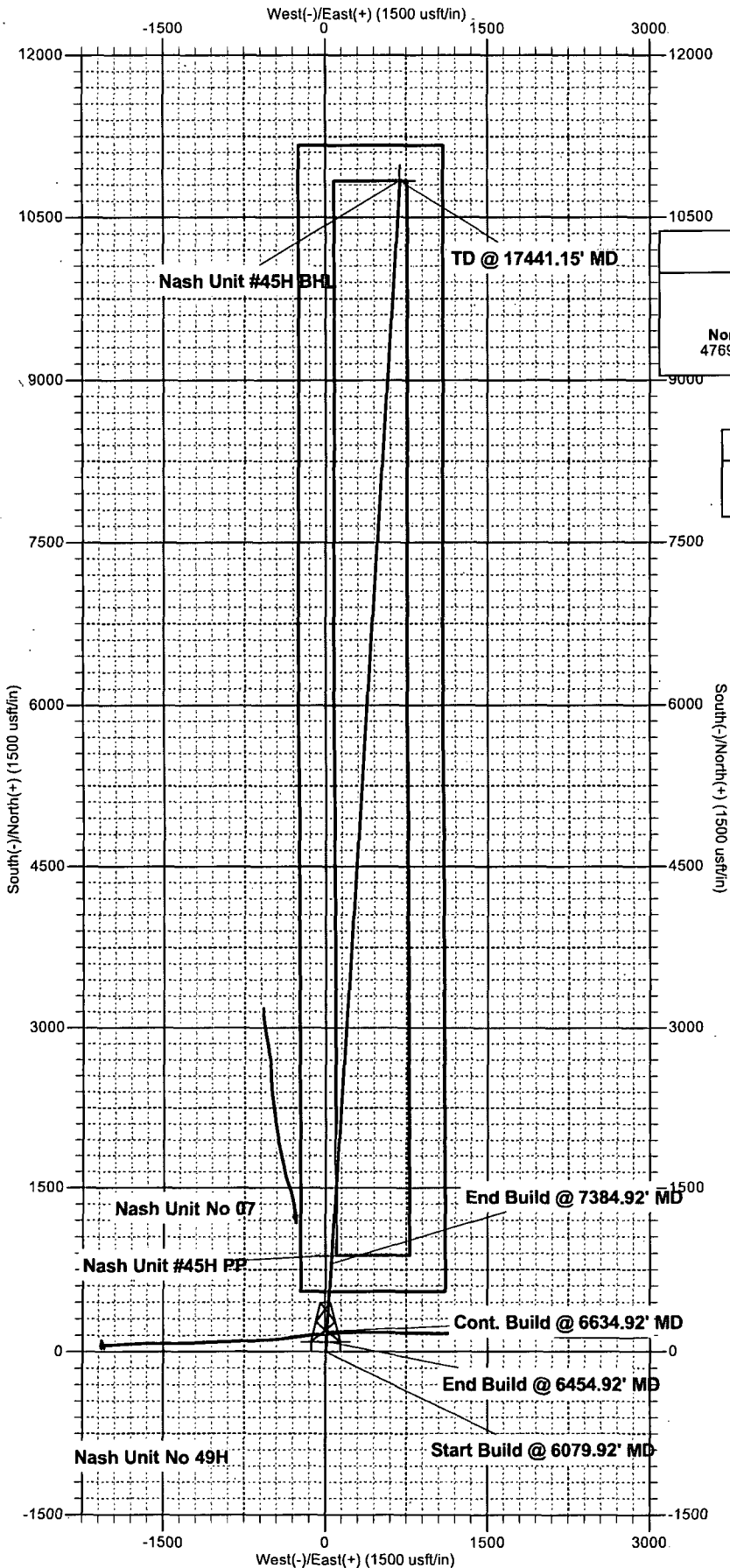
SURFACE LOCATION

US State Plane 1927 (Exact solution)
 New Mexico East 3001
 Elevation: GL 3015' + KB 17' @ 3032.00usft (Pioneer 33)

Northing	Easting	Latitude	Longitude
476986.30	626431.00	32° 18' 38.478 N	103° 55' 26.760 W

To convert a Magnetic Direction to a Grid Direction, Add 7.33°

Magnetic Model: BGGM2014 Date: 23-Jun-14
 Azimuths to Grid North



XTO Energy Inc.

Eddy County, NM (NAD27)

Nash Unit

Nash Unit No 45H

Wellbore #1

Plan: Plan #4

Sperry Drilling Services Proposal Report

23 June, 2014

Well Coordinates: 476,986.30 N, 626,431.00 E (32° 18' 38.48" N, 103° 55' 26.76" W)

Ground Level: 3,015.00 usft

Local Coordinate Origin:	Centered on Well Nash Unit No 45H
Viewing Datum:	GL 3015' + KB 17' @ 3032.00usft (Pioneer 33)
TVDs to System:	N
North Reference:	Grid
Unit System:	API - US Survey Feet

Version: 5000.1 Build: 65

HALLIBURTON

HALLIBURTON**Plan Report for Nash Unit No 45H - Plan #4**

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)	Toolface Azimuth (°)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29.00	0.00	0.00	29.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rustler										
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175.00	0.00	0.00	175.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13 3/8" Casing										
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
342.00	0.00	0.00	342.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Top Salt										
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,060.00	0.00	0.00	3,060.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Base Salt										
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9 5/8" Casing										
3,249.00	0.00	0.00	3,249.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Delaware										
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,143.00	0.00	0.00	4,143.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cherry Canyon										
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

HALLIBURTON

Plan Report for Nash Unit No 45H - Plan #4

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)	Toolface Azimuth (°)
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,900.00	0.00	0.00	4,900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5,100.00	0.00	0.00	5,100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5,200.00	0.00	0.00	5,200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5,300.00	0.00	0.00	5,300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5,400.00	0.00	0.00	5,400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5,500.00	0.00	0.00	5,500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5,600.00	0.00	0.00	5,600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5,700.00	0.00	0.00	5,700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5,718.00	0.00	0.00	5,718.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Brushy Canyon										
5,800.00	0.00	0.00	5,800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5,900.00	0.00	0.00	5,900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6,000.00	0.00	0.00	6,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6,079.92	0.00	0.00	6,079.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build @ 6079.92' MD - Dogleg = 8.00°/100'										
6,100.00	1.61	3.66	6,100.00	0.28	0.02	0.28	8.00	8.00	0.00	3.66
6,200.00	9.61	3.66	6,199.44	10.02	0.64	10.04	8.00	8.00	0.00	0.00
6,300.00	17.61	3.66	6,296.55	33.48	2.14	33.55	8.00	8.00	0.00	0.00
6,400.00	25.61	3.66	6,389.45	70.20	4.49	70.34	8.00	8.00	0.00	0.00
6,454.92	30.00	3.66	6,438.02	95.76	6.12	95.95	8.00	8.00	0.00	0.00
End Build @ 6454.92' MD - Hold Angle = 30.00° Inc.										
6,500.00	30.00	3.66	6,477.06	118.25	7.56	118.49	0.00	0.00	0.00	0.00
6,600.00	30.00	3.66	6,563.66	168.15	10.75	168.49	0.00	0.00	0.00	0.00
6,634.92	30.00	3.66	6,593.90	185.57	11.86	185.95	0.00	0.00	0.00	0.00
Cont. Build @ 6634.92' MD - Dogleg = 8.00°/100'										
6,694.25	34.75	3.66	6,644.00	217.27	13.89	217.71	8.00	8.00	0.00	0.00
Brushy Canyon "D7"										
6,700.00	35.21	3.66	6,648.71	220.56	14.10	221.01	8.00	8.00	0.00	0.00
6,800.00	43.21	3.66	6,726.13	283.59	18.13	284.17	8.00	8.00	0.00	0.00
6,834.93	46.00	3.66	6,751.00	308.06	19.69	308.69	8.00	8.00	0.00	0.00
Basal Brushy Canyon										
6,900.00	51.21	3.66	6,794.01	356.76	22.81	357.49	8.00	8.00	0.00	0.00
6,911.26	52.11	3.66	6,801.00	365.58	23.37	366.32	8.00	8.00	0.00	0.00
Brushy Canyon "E3"										
7,000.00	59.21	3.66	6,851.03	438.65	28.04	439.54	8.00	8.00	0.00	0.00
7,061.02	64.09	3.66	6,880.00	492.23	31.47	493.23	8.00	8.00	0.00	0.00
Brushy Canyon "E4"										
7,100.00	67.21	3.66	6,896.07	527.66	33.73	528.74	8.00	8.00	0.00	0.00
7,176.89	73.36	3.66	6,922.00	599.86	38.35	601.08	8.00	8.00	0.00	0.00
Brushy Canyon "E5"										
7,200.00	75.21	3.66	6,928.26	622.06	39.77	623.33	8.00	8.00	0.00	0.00
7,215.26	76.43	3.66	6,932.00	636.83	40.71	638.13	8.00	8.00	0.00	0.00
Target Top										
7,300.00	83.21	3.66	6,946.97	720.01	46.03	721.48	8.00	8.00	0.00	0.00
7,384.91	90.00	3.66	6,952.00	804.55	51.43	806.19	8.00	8.00	0.00	0.00
LP										
7,384.92	90.00	3.66	6,952.00	804.56	51.43	806.20	6.37	6.37	0.00	0.00
End Build @ 7384.92' MD - Hold Angle = 90.00° Inc. - 7" Casing										
7,400.00	90.00	3.66	6,952.00	819.61	52.40	821.28	0.00	0.00	0.00	0.00
7,460.41	90.00	3.66	6,952.00	879.90	56.25	881.69	0.00	0.00	0.00	0.00
Nash Unit #45H PP										
7,500.00	90.00	3.66	6,952.00	919.40	58.78	921.28	0.00	0.00	0.00	0.00

Plan Report for Nash Unit No 45H - Plan #4

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)	Toolface Azimuth (°)
7,600.00	90.00	3.66	6,952.00	1,019.20	65.16	1,021.28	0.00	0.00	0.00	0.00
7,700.00	90.00	3.66	6,952.00	1,118.99	71.54	1,121.28	0.00	0.00	0.00	0.00
7,800.00	90.00	3.66	6,952.00	1,218.79	77.92	1,221.28	0.00	0.00	0.00	0.00
7,900.00	90.00	3.66	6,952.00	1,318.59	84.29	1,321.28	0.00	0.00	0.00	0.00
8,000.00	90.00	3.66	6,952.00	1,418.38	90.67	1,421.28	0.00	0.00	0.00	0.00
8,100.00	90.00	3.66	6,952.00	1,518.18	97.05	1,521.28	0.00	0.00	0.00	0.00
8,200.00	90.00	3.66	6,952.00	1,617.98	103.43	1,621.28	0.00	0.00	0.00	0.00
8,300.00	90.00	3.66	6,952.00	1,717.77	109.81	1,721.28	0.00	0.00	0.00	0.00
8,400.00	90.00	3.66	6,952.00	1,817.57	116.19	1,821.28	0.00	0.00	0.00	0.00
8,500.00	90.00	3.66	6,952.00	1,917.37	122.57	1,921.28	0.00	0.00	0.00	0.00
8,600.00	90.00	3.66	6,952.00	2,017.16	128.95	2,021.28	0.00	0.00	0.00	0.00
8,700.00	90.00	3.66	6,952.00	2,116.96	135.33	2,121.28	0.00	0.00	0.00	0.00
8,800.00	90.00	3.66	6,952.00	2,216.75	141.71	2,221.28	0.00	0.00	0.00	0.00
8,900.00	90.00	3.66	6,952.00	2,316.55	148.09	2,321.28	0.00	0.00	0.00	0.00
9,000.00	90.00	3.66	6,952.00	2,416.35	154.47	2,421.28	0.00	0.00	0.00	0.00
9,100.00	90.00	3.66	6,952.00	2,516.14	160.85	2,521.28	0.00	0.00	0.00	0.00
9,200.00	90.00	3.66	6,952.00	2,615.94	167.23	2,621.28	0.00	0.00	0.00	0.00
9,300.00	90.00	3.66	6,952.00	2,715.74	173.61	2,721.28	0.00	0.00	0.00	0.00
9,400.00	90.00	3.66	6,952.00	2,815.53	179.99	2,821.28	0.00	0.00	0.00	0.00
9,500.00	90.00	3.66	6,952.00	2,915.33	186.37	2,921.28	0.00	0.00	0.00	0.00
9,600.00	90.00	3.66	6,952.00	3,015.12	192.75	3,021.28	0.00	0.00	0.00	0.00
9,700.00	90.00	3.66	6,952.00	3,114.92	199.13	3,121.28	0.00	0.00	0.00	0.00
9,800.00	90.00	3.66	6,952.00	3,214.72	205.51	3,221.28	0.00	0.00	0.00	0.00
9,900.00	90.00	3.66	6,952.00	3,314.51	211.89	3,321.28	0.00	0.00	0.00	0.00
10,000.00	90.00	3.66	6,952.00	3,414.31	218.27	3,421.28	0.00	0.00	0.00	0.00
10,100.00	90.00	3.66	6,952.00	3,514.11	224.65	3,521.28	0.00	0.00	0.00	0.00
10,200.00	90.00	3.66	6,952.00	3,613.90	231.03	3,621.28	0.00	0.00	0.00	0.00
10,300.00	90.00	3.66	6,952.00	3,713.70	237.41	3,721.28	0.00	0.00	0.00	0.00
10,400.00	90.00	3.66	6,952.00	3,813.49	243.79	3,821.28	0.00	0.00	0.00	0.00
10,500.00	90.00	3.66	6,952.00	3,913.29	250.17	3,921.28	0.00	0.00	0.00	0.00
10,600.00	90.00	3.66	6,952.00	4,013.09	256.55	4,021.28	0.00	0.00	0.00	0.00
10,700.00	90.00	3.66	6,952.00	4,112.88	262.93	4,121.28	0.00	0.00	0.00	0.00
10,800.00	90.00	3.66	6,952.00	4,212.68	269.31	4,221.28	0.00	0.00	0.00	0.00
10,900.00	90.00	3.66	6,952.00	4,312.48	275.69	4,321.28	0.00	0.00	0.00	0.00
11,000.00	90.00	3.66	6,952.00	4,412.27	282.07	4,421.28	0.00	0.00	0.00	0.00
11,100.00	90.00	3.66	6,952.00	4,512.07	288.45	4,521.28	0.00	0.00	0.00	0.00
11,200.00	90.00	3.66	6,952.00	4,611.86	294.83	4,621.28	0.00	0.00	0.00	0.00
11,300.00	90.00	3.66	6,952.00	4,711.66	301.21	4,721.28	0.00	0.00	0.00	0.00
11,400.00	90.00	3.66	6,952.00	4,811.46	307.59	4,821.28	0.00	0.00	0.00	0.00
11,500.00	90.00	3.66	6,952.00	4,911.25	313.97	4,921.28	0.00	0.00	0.00	0.00
11,600.00	90.00	3.66	6,952.00	5,011.05	320.35	5,021.28	0.00	0.00	0.00	0.00
11,700.00	90.00	3.66	6,952.00	5,110.85	326.73	5,121.28	0.00	0.00	0.00	0.00
11,800.00	90.00	3.66	6,952.00	5,210.64	333.11	5,221.28	0.00	0.00	0.00	0.00
11,900.00	90.00	3.66	6,952.00	5,310.44	339.49	5,321.28	0.00	0.00	0.00	0.00
12,000.00	90.00	3.66	6,952.00	5,410.24	345.87	5,421.28	0.00	0.00	0.00	0.00
12,100.00	90.00	3.66	6,952.00	5,510.03	352.25	5,521.28	0.00	0.00	0.00	0.00
12,200.00	90.00	3.66	6,952.00	5,609.83	358.63	5,621.28	0.00	0.00	0.00	0.00
12,300.00	90.00	3.66	6,952.00	5,709.62	365.01	5,721.28	0.00	0.00	0.00	0.00
12,400.00	90.00	3.66	6,952.00	5,809.42	371.39	5,821.28	0.00	0.00	0.00	0.00
12,500.00	90.00	3.66	6,952.00	5,909.22	377.77	5,921.28	0.00	0.00	0.00	0.00
12,600.00	90.00	3.66	6,952.00	6,009.01	384.14	6,021.28	0.00	0.00	0.00	0.00
12,700.00	90.00	3.66	6,952.00	6,108.81	390.52	6,121.28	0.00	0.00	0.00	0.00
12,800.00	90.00	3.66	6,952.00	6,208.61	396.90	6,221.28	0.00	0.00	0.00	0.00
12,900.00	90.00	3.66	6,952.00	6,308.40	403.28	6,321.28	0.00	0.00	0.00	0.00
13,000.00	90.00	3.66	6,952.00	6,408.20	409.66	6,421.28	0.00	0.00	0.00	0.00
13,100.00	90.00	3.66	6,952.00	6,507.99	416.04	6,521.28	0.00	0.00	0.00	0.00
13,200.00	90.00	3.66	6,952.00	6,607.79	422.42	6,621.28	0.00	0.00	0.00	0.00
13,300.00	90.00	3.66	6,952.00	6,707.59	428.80	6,721.28	0.00	0.00	0.00	0.00
13,400.00	90.00	3.66	6,952.00	6,807.38	435.18	6,821.28	0.00	0.00	0.00	0.00
13,500.00	90.00	3.66	6,952.00	6,907.18	441.56	6,921.28	0.00	0.00	0.00	0.00

Plan Report for Nash Unit No 45H - Plan #4

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)	Toolface Azimuth (°)
13,600.00	90.00	3.66	6,952.00	7,006.98	447.94	7,021.28	0.00	0.00	0.00	0.00
13,700.00	90.00	3.66	6,952.00	7,106.77	454.32	7,121.28	0.00	0.00	0.00	0.00
13,800.00	90.00	3.66	6,952.00	7,206.57	460.70	7,221.28	0.00	0.00	0.00	0.00
13,900.00	90.00	3.66	6,952.00	7,306.36	467.08	7,321.28	0.00	0.00	0.00	0.00
14,000.00	90.00	3.66	6,952.00	7,406.16	473.46	7,421.28	0.00	0.00	0.00	0.00
14,100.00	90.00	3.66	6,952.00	7,505.96	479.84	7,521.28	0.00	0.00	0.00	0.00
14,200.00	90.00	3.66	6,952.00	7,605.75	486.22	7,621.28	0.00	0.00	0.00	0.00
14,300.00	90.00	3.66	6,952.00	7,705.55	492.60	7,721.28	0.00	0.00	0.00	0.00
14,400.00	90.00	3.66	6,952.00	7,805.35	498.98	7,821.28	0.00	0.00	0.00	0.00
14,500.00	90.00	3.66	6,952.00	7,905.14	505.36	7,921.28	0.00	0.00	0.00	0.00
14,600.00	90.00	3.66	6,952.00	8,004.94	511.74	8,021.28	0.00	0.00	0.00	0.00
14,700.00	90.00	3.66	6,952.00	8,104.73	518.12	8,121.28	0.00	0.00	0.00	0.00
14,800.00	90.00	3.66	6,952.00	8,204.53	524.50	8,221.28	0.00	0.00	0.00	0.00
14,900.00	90.00	3.66	6,952.00	8,304.33	530.88	8,321.28	0.00	0.00	0.00	0.00
15,000.00	90.00	3.66	6,952.00	8,404.12	537.26	8,421.28	0.00	0.00	0.00	0.00
15,100.00	90.00	3.66	6,952.00	8,503.92	543.64	8,521.28	0.00	0.00	0.00	0.00
15,200.00	90.00	3.66	6,952.00	8,603.72	550.02	8,621.28	0.00	0.00	0.00	0.00
15,300.00	90.00	3.66	6,952.00	8,703.51	556.40	8,721.28	0.00	0.00	0.00	0.00
15,400.00	90.00	3.66	6,952.00	8,803.31	562.78	8,821.28	0.00	0.00	0.00	0.00
15,500.00	90.00	3.66	6,952.00	8,903.10	569.16	8,921.28	0.00	0.00	0.00	0.00
15,600.00	90.00	3.66	6,952.00	9,002.90	575.54	9,021.28	0.00	0.00	0.00	0.00
15,700.00	90.00	3.66	6,952.00	9,102.70	581.92	9,121.28	0.00	0.00	0.00	0.00
15,800.00	90.00	3.66	6,952.00	9,202.49	588.30	9,221.28	0.00	0.00	0.00	0.00
15,900.00	90.00	3.66	6,952.00	9,302.29	594.68	9,321.28	0.00	0.00	0.00	0.00
16,000.00	90.00	3.66	6,952.00	9,402.09	601.06	9,421.28	0.00	0.00	0.00	0.00
16,100.00	90.00	3.66	6,952.00	9,501.88	607.44	9,521.28	0.00	0.00	0.00	0.00
16,200.00	90.00	3.66	6,952.00	9,601.68	613.82	9,621.28	0.00	0.00	0.00	0.00
16,300.00	90.00	3.66	6,952.00	9,701.48	620.20	9,721.28	0.00	0.00	0.00	0.00
16,400.00	90.00	3.66	6,952.00	9,801.27	626.58	9,821.28	0.00	0.00	0.00	0.00
16,500.00	90.00	3.66	6,952.00	9,901.07	632.96	9,921.28	0.00	0.00	0.00	0.00
16,600.00	90.00	3.66	6,952.00	10,000.86	639.34	10,021.28	0.00	0.00	0.00	0.00
16,700.00	90.00	3.66	6,952.00	10,100.66	645.72	10,121.28	0.00	0.00	0.00	0.00
16,800.00	90.00	3.66	6,952.00	10,200.46	652.10	10,221.28	0.00	0.00	0.00	0.00
16,900.00	90.00	3.66	6,952.00	10,300.25	658.48	10,321.28	0.00	0.00	0.00	0.00
17,000.00	90.00	3.66	6,952.00	10,400.05	664.86	10,421.28	0.00	0.00	0.00	0.00
17,100.00	90.00	3.66	6,952.00	10,499.85	671.24	10,521.28	0.00	0.00	0.00	0.00
17,200.00	90.00	3.66	6,952.00	10,599.64	677.62	10,621.28	0.00	0.00	0.00	0.00
17,300.00	90.00	3.66	6,952.00	10,699.44	683.99	10,721.28	0.00	0.00	0.00	0.00
17,400.00	90.00	3.66	6,952.00	10,799.23	690.37	10,821.28	0.00	0.00	0.00	0.00
17,441.15	90.00	3.66	6,952.00	10,840.30	693.00	10,862.43	0.00	0.00	0.00	0.00

TD @ 17441.15' MD - Nash Unit #45H BHL

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment
6,079.92	6,079.92	0.00	0.00	Start Build @ 6079.92' MD
6,079.92	6,079.92	0.00	0.00	Dogleg = 8.00°/100'
6,454.92	6,438.02	95.76	6.12	End Build @ 6454.92' MD
6,454.92	6,438.02	95.76	6.12	Hold Angle = 30.00° Inc.
6,634.92	6,593.90	185.57	11.86	Cont. Build @ 6634.92' MD
6,634.92	6,593.90	185.57	11.86	Dogleg = 8.00°/100'
7,384.92	6,952.00	804.55	51.43	End Build @ 7384.92' MD
7,384.92	6,952.00	804.56	51.43	Hold Angle = 90.00° Inc.
17,441.15	6,952.00	10,840.30	693.00	TD @ 17441.15' MD

Plan Report for Nash Unit No 45H - Plan #4

Vertical Section Information

Angle Type	Target	Azimuth (°)	Origin Type	Origin +N/_S (usft)	Origin +E/-W (usft)	Start TVD (usft)
TD	No Target (Freehand)	3.66	Slot	0.00	0.00	0.00

Survey tool program

From (usft)	To (usft)	Survey/Plan	Survey Tool
0.00	17,441.15	Plan #4	MWD+SC

Casing Details

Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
175.00	175.00	13 3/8" Casing	13-3/8	17-1/2
3,200.00	3,200.00	9 5/8" Casing	9-5/8	12-1/4
7,384.92	6,952.00	7" Casing	7	8-1/2

Formation Details

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
29.00	29.00	Rustler		0.00	3.66
342.00	342.00	Top Salt		0.00	3.66
3,060.00	3,060.00	Base Salt		0.00	3.66
3,249.00	3,249.00	Delaware		0.00	3.66
4,143.00	4,143.00	Cherry Canyon		0.00	3.66
5,718.00	5,718.00	Brushy Canyon		0.00	3.66
6,694.25	6,644.00	Brushy Canyon "D7"		0.00	3.66
6,834.93	6,751.00	Basal Brushy Canyon		0.00	3.66
6,911.26	6,801.00	Brushy Canyon "E3"		0.00	3.66
7,061.02	6,880.00	Brushy Canyon "E4"			3.66
7,176.89	6,922.00	Brushy Canyon "E5"			3.66
7,215.26	6,932.00	Target Top			3.66
7,384.91	6,952.00	LP			3.66

Targets associated with this wellbore

Target Name	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Shape
Nash Unit #45H PP	6,952.00	879.90	56.20	Point
Nash Unit #45H BHL	6,952.00	10,840.30	693.00	Point

North Reference Sheet for Nash Unit - Nash Unit No 45H - Wellbore #1

All data is in US Feet unless otherwise stated. Directions and Coordinates are relative to Grid North Reference.

Vertical Depths are relative to GL 3015' + KB 17' @ 3032.00usft (Pioneer 33). Northing and Easting are relative to Nash Unit No 45H

Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 3001 using datum NAD 1927 (NADCON CONUS), ellipsoid Clarke 1866

Projection method is Transverse Mercator (Gauss-Kruger)

Central Meridian is -104.33°, Longitude Origin:0° 0' 0.000 E°, Latitude Origin:0° 0' 0.000 N°

False Easting: 500,000.00usft, False Northing: 0.00usft, Scale Reduction: 0.99992740

Grid Coordinates of Well: 476,986.30 usft N, 626,431.00 usft E

Geographical Coordinates of Well: 32° 18' 38.48" N, 103° 55' 26.76" W

Grid Convergence at Surface is: 0.22°

Based upon Minimum Curvature type calculations, at a Measured Depth of 17,441.15usft
the Bottom Hole Displacement is 10,862.43usft in the Direction of 3.66° (Grid).

Magnetic Convergence at surface is: -7.33° (23 June 2014, , BGGM2014)

