

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Rec'd 05/18/2020 - NMOCD

FORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018**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.
NMNM15302

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.
CORRAL CANYON FEDERAL 18H9. API Well No.
30-015-43717-00-X110. Field and Pool or Exploratory Area
WILLOW LAKE-BONE SPRING, SE11. County or Parish, State
EDDY COUNTY, NM**SUBMIT IN TRIPLICATE - Other instructions on page 2**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other2. Name of Operator
XTO ENERGY INCORPORATEDContact: KELLY KARDOS
E-Mail: kelly_kardos@xtoenergy.com3a. Address
6401 HOLIDAY HILL ROAD BLDG 5
MIDLAND, TX 797073b. Phone No. (include area code)
Ph: 432-620-43744. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Sec 9 T25S R29E NENW 175FNL 2030FWL**12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" 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 type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<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	Change to Original APD
	<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 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.

****RECORD CLEAN-UP****

XTO Energy, Inc. is submitting this sundry as *RECORD CLEANUP* per Amy Vermersch at NMOCD to explain why the pool change was requested after 1st production.

This well was permitted as a Corral Canyon, Delaware, NW oil well. Prior to well spud on 11/29/18, XTO geologist requested a target formation change to Second Bone Spring instead of Delaware for development purposes. This required a pool change from Corral Canyon, Delaware, NW oil to Willow Lake Bone Spring SE. In December 2019, an XTO Regulatory Analyst discovered that the target formation change was not submitted prior to first production (09/06/19). A pool change sundry was submitted immediately to BLM correcting the pool to Willow Lake Bone Spring SE on 12/02/19 and approved by BLM on 12/06/19. A copy of the sundry was sent to NMOCD and approved on 12/26/19.

14. I hereby certify that the foregoing is true and correct.

**Electronic Submission #514608 verified by the BLM Well Information System
For XTO ENERGY INCORPORATED, sent to the Carlsbad
Committed to AFMSS for processing by PRISCILLA PEREZ on 05/11/2020 (20PP2750SE)**

Name (Printed/Typed) KELLY KARDOS

Title REGULATORY COORDINATOR

Signature (Electronic Submission)

Date 05/08/2020

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By

ACCEPTEDALLISON MORENCY
Title PETROLEUM ENGINEER

Date 05/18/2020

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 Carlsbad

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)

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

Accepted 05/19/2020 -KMS NMOCD

Additional data for EC transaction #514608 that would not fit on the form

32. Additional remarks, continued

NMOCD records show the formation as Willow Lake Bone Spring, SE.

On 4/22/20, Amy Vermersch at NMOCD, requested a second sundry showing the effective date of the pool change. A 2nd sundry was submitted to BLM on 4/27/20 with an effective date of 11/29/18 and a copy of the sundry was provided to NMOCD.

On 4/28/20, Amy Vermersch at NMOCD requested a third sundry with an explanation (see 2nd paragraph above) of why the pool change sundry was filed after first production.

Attached:
As-Drilled C102
Directional Plan

Revisions to Operator-Submitted EC Data for Sundry Notice #514608

	Operator Submitted	BLM Revised (AFMSS)
Sundry Type:	APDCH NOI	APDCH NOI
Lease:	NMNM15302	NMNM15302
Agreement:		
Operator:	XTO ENERGY INC 6401 HOLIDAY HILL RD BLDG 5 MIDLAND, TX 79707 Ph: 432-620-4374	XTO ENERGY INCORPORATED 6401 HOLIDAY HILL ROAD BLDG 5 MIDLAND, TX 79707 Ph: 432.683 2277
Admin Contact:	KELLY KARDOS REGULATORY COORDINATOR E-Mail: kelly_kardos@xtoenergy.com Ph: 432-620-4374	KELLY KARDOS REGULATORY COORDINATOR E-Mail: kelly_kardos@xtoenergy.com Ph: 432-620-4374
Tech Contact:	KELLY KARDOS REGULATORY COORDINATOR E-Mail: kelly_kardos@xtoenergy.com Ph: 432-620-4374	KELLY KARDOS REGULATORY COORDINATOR E-Mail: kelly_kardos@xtoenergy.com Ph: 432-620-4374
Location:		
State:	NM	NM
County:	EDDY	EDDY
Field/Pool:	WILLOW LAKE BONE SPRINGSE	WILLOW LAKE-BONE SPRING, SE
Well/Facility:	CORRAL CANYON FEDERAL 18H Sec 9 T25S R29E Mer NMP NENW 175FNL 2030FWL	CORRAL CANYON FEDERAL 18H Sec 9 T25S R29E NENW 175FNL 2030FWL

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, NM 87505

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

WELL LOCATION AND ACREAGE DEDICATION PLAT AS-DRILLED PLAT

¹ API Number 30-015-43717	² Pool Code 96217	³ Pool Name WILLOW LAKE; BONE SPRING, SE
⁴ Property Code 314121	⁵ Property Name CORRAL CANYON FEDERAL COM	⁶ Well Number 18H
⁷ OGRID No. 005380	⁸ Operator Name XTO ENERGY, INC.	⁹ Elevation 2,948'

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
C	9	25 S	29 E		175	NORTH	2,030	WEST	EDDY

¹¹ 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	4	25 S	29 E		7	NORTH	1,993	WEST	EDDY

¹² Dedicated Acres 159.85	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ 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.

NOTE: AS-DRILLED BOTTOM HOLE PLOTTED
FROM DATA FURNISHED BY XTO ENERGY

	<p>17 OPERATOR CERTIFICATION</p> <p>I hereby certify that the information contained 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 a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p><i>Cheryl Rowell</i> 12/19/19 Signature Date</p> <p>Cheryl Rowell Printed Name</p> <p>cheryl_rowell@xtoenergy.com E-mail Address</p>											
	<p>18 SURVEYOR CERTIFICATION</p> <p>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.</p> <p>12-19-2019 Date of Survey</p> <p>Signature and Seal of Professional Surveyor:</p> <p><i>[Signature]</i></p> <p>MARK DILLON HARP 23786 Certificate Number</p>											
	<p>GEODETIC COORDINATES NAD 27 NME SURFACE LOCATION Y= 418,935.0 X= 605,949.3 LAT.= 32.151306°N LONG.= 103.990993°W</p> <p>GEODETIC COORDINATES NAD 83 NME SURFACE LOCATION Y= 418,993.5 X= 647,133.5 LAT.= 32.151430°N LONG.= 103.991481°W</p> <p>FIRST TAKE POINT NAD 27 NME Y= 419,386.1 X= 605,532.5 LAT.= 32.152550°N LONG.= 103.992335°W</p> <p>FIRST TAKE POINT NAD 83 NME Y= 419,444.6 X= 646,716.6 LAT.= 32.152674°N LONG.= 103.992823°W</p>											
	<p>CORNER COORDINATES TABLE NAD 27 NME</p> <table border="1"> <tr><td>A - Y= 419,113.3 N, X= 606,574.9 E</td></tr> <tr><td>B - Y= 419,106.1 N, X= 605,247.1 E</td></tr> <tr><td>C - Y= 421,766.9 N, X= 606,554.9 E</td></tr> <tr><td>D - Y= 421,759.8 N, X= 605,230.4 E</td></tr> <tr><td>E - Y= 424,424.6 N, X= 606,534.8 E</td></tr> <tr><td>F - Y= 424,412.4 N, X= 605,213.3 E</td></tr> </table> <p>CORNER COORDINATES TABLE NAD 83 NME</p> <table border="1"> <tr><td>A - Y= 419,171.8 N, X= 647,759.1 E</td></tr> <tr><td>B - Y= 419,164.6 N, X= 646,431.2 E</td></tr> <tr><td>C - Y= 421,825.5 N, X= 647,739.0 E</td></tr> <tr><td>D - Y= 421,818.4 N, X= 646,414.5 E</td></tr> <tr><td>E - Y= 424,483.2 N, X= 647,718.8 E</td></tr> <tr><td>F - Y= 424,471.0 N, X= 646,397.3 E</td></tr> </table> <p>LAST TAKE POINT NAD 27 NME Y= 424,274.5 X= 605,879.1 LAT.= 32.165985°N LONG.= 103.991165°W</p> <p>LAST TAKE POINT NAD 83 NME Y= 424,333.1 X= 647,063.1 LAT.= 32.166108°N LONG.= 103.991653°W</p> <p>BOTTOM HOLE LOCATION NAD 27 NME Y= 424,411.3 X= 605,884.9 LAT.= 32.166361°N LONG.= 103.991145°W</p> <p>BOTTOM HOLE LOCATION NAD 83 NME Y= 424,469.9 X= 647,068.9 LAT.= 32.166485°N LONG.= 103.991633°W</p>	A - Y= 419,113.3 N, X= 606,574.9 E	B - Y= 419,106.1 N, X= 605,247.1 E	C - Y= 421,766.9 N, X= 606,554.9 E	D - Y= 421,759.8 N, X= 605,230.4 E	E - Y= 424,424.6 N, X= 606,534.8 E	F - Y= 424,412.4 N, X= 605,213.3 E	A - Y= 419,171.8 N, X= 647,759.1 E	B - Y= 419,164.6 N, X= 646,431.2 E	C - Y= 421,825.5 N, X= 647,739.0 E	D - Y= 421,818.4 N, X= 646,414.5 E	E - Y= 424,483.2 N, X= 647,718.8 E
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XTO ENERGY, INC.

Eddy County, NM

Sec 9, T25S, R29E

Corral Canyon Federal #18H

Wellbore #1

Design: Wellbore #1

QES Survey Certification Report

16 December, 2018



Quintana Energy Services

11390 FM 830
Willis, TX 77318
Phone: (936) 856-4332
Fax: (936) 856-8678



Survey Certification Sheet

Company	Job Number	Date
XTO Energy, Inc.	WT-181446	12/17/2018

Lease	Well Name	County & State
SEC 9, T-25S, R29E	Corral Canyon Federal #18H	Eddy County, NM

API No.	Survey Depth Range	Survey Type
30-015-43717	7785 feet to 14049 feet MD	MWD

Sidetrack Information	Directional Supervisor/Surveyor
Click here to enter text.	Bill Kitchens

Certification Statement

The data and calculations for this survey have been checked by me and conform to the standards and procedures set forth by Quintana Energy Services (QES). This report represents a true and correct directional survey of this well based on the original data obtained at the well site. Wellbore coordinates are calculated using minimum curvature.

Christopher Hughes
MWD Compliance Manager
Quintana Energy Services

Company:	XTO ENERGY, INC.	Local Co-ordinate Reference:	Well Corral Canyon Federal #18H
Project:	Eddy County, NM	TVD Reference:	RKB @ 2975.0usft (Frontier #27)
Site:	Sec 9, T25S, R29E	MD Reference:	RKB @ 2975.0usft (Frontier #27)
Well:	Corral Canyon Federal #18H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Project	Eddy County, NM		
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 9, T25S, R29E		
Site Position:		Northing:	418,934.60 usft
From:	Map	Easting:	605,899.30 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16"
		Latitude:	32° 9' 4.699 N
		Longitude:	103° 59' 28.157 W
		Grid Convergence:	0.18 °

Well	Corral Canyon Federal #18H		
Well Position	+N/-S	0.0 usft	Northing: 418,934.98 usft
	+E/-W	0.0 usft	Easting: 605,949.32 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
		Latitude:	32° 9' 4.702 N
		Longitude:	103° 59' 27.575 W
		Ground Level:	2,948.0 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	12/7/2018	6.98	59.91	47,702.62247874

Design	Wellbore #1			
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	359.18

Survey Program	Date	12/16/2018		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
174.0	7,785.0	WellBenders MWD (Wellbore #1)	MWD	OWSG MWD - Standard
7,835.0	14,049.0	QES MWD Survey (Wellbore #1)	MWD	OWSG MWD - Standard

Survey							
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
7,785.0	0.90	18.70	7,782.5	-55.3	2.7	55.3	177.21
MWD Tie In @ 7785.0' MD / 7782.5' TVD							
7,835.0	1.10	326.90	7,832.5	-54.5	2.6	54.5	177.31
7,882.0	3.40	303.20	7,879.4	-53.3	1.1	53.4	178.77
7,930.0	5.90	301.60	7,927.3	-51.3	-2.1	51.3	182.40
7,977.0	8.40	304.90	7,973.9	-48.0	-7.0	48.6	188.32
8,025.0	10.30	310.00	8,021.2	-43.3	-13.2	45.2	196.94
8,072.0	10.60	318.50	8,067.5	-37.3	-19.3	42.0	207.30
8,120.0	11.00	317.20	8,114.6	-30.7	-25.3	39.8	219.52
8,168.0	13.10	310.60	8,161.6	-23.8	-32.5	40.3	233.86
8,216.0	20.00	304.40	8,207.5	-15.6	-43.5	46.2	250.28

Company:	XTO ENERGY, INC.	Local Co-ordinate Reference:	Well Corral Canyon Federal #18H
Project:	Eddy County, NM	TVD Reference:	RKB @ 2975.0usft (Frontier #27)
Site:	Sec 9, T25S, R29E	MD Reference:	RKB @ 2975.0usft (Frontier #27)
Well:	Corral Canyon Federal #18H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Survey								
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	
8,263.0	27.70	303.00	8,250.5	-5.1	-59.3	59.5	265.11	
8,312.0	34.50	303.90	8,292.4	8.9	-80.4	80.9	276.31	
8,359.0	39.60	306.20	8,329.9	25.2	-103.5	106.5	283.66	
8,408.0	44.50	304.90	8,366.3	44.2	-130.2	137.5	288.76	
8,455.0	49.90	303.20	8,398.2	63.5	-158.8	171.0	291.80	
8,502.0	53.90	302.30	8,427.2	83.5	-189.9	207.5	293.74	
8,549.0	57.70	302.30	8,453.6	104.3	-222.8	246.0	295.08	
8,597.0	60.90	304.00	8,478.1	126.8	-257.3	286.9	296.24	
8,644.0	59.00	310.70	8,501.7	151.5	-289.6	326.9	297.61	
8,692.0	59.10	318.50	8,526.4	180.4	-318.9	366.4	299.49	
8,739.0	63.00	325.30	8,549.2	212.7	-344.2	404.6	301.72	
8,787.0	66.00	330.80	8,569.9	249.5	-367.1	443.8	304.20	
8,834.0	67.40	338.00	8,588.5	288.4	-385.7	481.6	306.78	
8,882.0	70.50	343.40	8,605.7	330.6	-400.5	519.3	309.54	
8,929.0	76.10	350.10	8,619.2	374.4	-410.8	555.8	312.35	
8,977.0	82.70	356.40	8,628.1	421.2	-416.3	592.2	315.34	
9,024.0	89.00	1.20	8,631.5	468.0	-417.3	627.0	318.28	
9,072.0	90.10	3.60	8,631.8	516.0	-415.3	662.3	321.17	
9,167.0	90.00	5.90	8,631.8	610.7	-407.4	734.1	326.29	
9,261.0	89.70	9.30	8,632.0	703.8	-395.0	807.1	330.70	
9,357.0	91.20	8.20	8,631.3	798.7	-380.4	884.6	334.54	
9,451.0	93.30	7.70	8,627.6	891.7	-367.4	964.4	337.61	
9,546.0	92.40	5.90	8,622.8	985.9	-356.1	1,048.3	340.14	
9,641.0	90.40	5.40	8,620.5	1,080.4	-346.8	1,134.7	342.21	
9,735.0	91.50	4.50	8,619.0	1,174.1	-338.7	1,221.9	343.91	
9,829.0	90.90	3.50	8,617.0	1,267.8	-332.1	1,310.6	345.32	
9,933.0	88.10	2.20	8,617.9	1,371.7	-326.9	1,410.1	346.59	
10,027.0	88.70	2.10	8,620.5	1,465.6	-323.4	1,500.8	347.56	
10,122.0	90.90	2.60	8,620.9	1,560.5	-319.5	1,592.9	348.43	
10,217.0	91.10	1.70	8,619.2	1,655.4	-316.0	1,685.3	349.19	
10,312.0	88.00	359.20	8,619.9	1,750.4	-315.2	1,778.5	349.79	
10,408.0	88.90	358.90	8,622.5	1,846.3	-316.8	1,873.3	350.26	
10,502.0	89.80	0.50	8,623.6	1,940.3	-317.3	1,966.1	350.71	
10,597.0	91.10	2.40	8,622.9	2,035.3	-314.9	2,059.5	351.21	
10,689.0	90.00	4.20	8,622.0	2,127.1	-309.6	2,149.5	351.72	
10,784.0	91.80	4.90	8,620.5	2,221.8	-302.1	2,242.2	352.26	
10,878.0	90.00	3.10	8,619.0	2,315.6	-295.5	2,334.3	352.73	
10,973.0	89.70	4.30	8,619.3	2,410.4	-289.4	2,427.7	353.15	
11,066.0	91.20	4.70	8,618.5	2,503.1	-282.1	2,518.9	353.57	
11,162.0	90.40	3.80	8,617.2	2,598.8	-275.0	2,613.3	353.96	
11,257.0	90.10	3.10	8,616.8	2,693.6	-269.2	2,707.0	354.29	
11,352.0	90.70	2.90	8,616.1	2,788.5	-264.3	2,801.0	354.59	
11,447.0	89.90	1.90	8,615.6	2,883.4	-260.3	2,895.1	354.84	
11,543.0	88.80	0.50	8,616.7	2,979.4	-258.3	2,990.5	355.05	

Company:	XTO ENERGY, INC.	Local Co-ordinate Reference:	Well Corral Canyon Federal #18H
Project:	Eddy County, NM	TVD Reference:	RKB @ 2975.0usft (Frontier #27)
Site:	Sec 9, T25S, R29E	MD Reference:	RKB @ 2975.0usft (Frontier #27)
Well:	Corral Canyon Federal #18H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Survey								
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	
11,636.0	89.10	1.70	8,618.4	3,072.3	-256.5	3,083.0	355.23	
11,731.0	90.10	4.90	8,619.1	3,167.2	-251.0	3,177.1	355.47	
11,827.0	90.50	4.00	8,618.6	3,262.9	-243.6	3,271.9	355.73	
11,921.0	90.30	2.20	8,617.9	3,356.7	-238.5	3,365.2	355.94	
12,014.0	89.80	4.00	8,617.8	3,449.6	-233.5	3,457.5	356.13	
12,111.0	88.30	4.70	8,619.4	3,546.3	-226.1	3,553.5	356.35	
12,206.0	88.20	4.90	8,622.3	3,640.9	-218.2	3,647.4	356.57	
12,302.0	88.60	5.60	8,625.0	3,736.5	-209.4	3,742.3	356.79	
12,398.0	90.70	6.80	8,625.6	3,831.9	-199.0	3,837.1	357.03	
12,493.0	91.50	6.40	8,623.8	3,926.2	-188.1	3,930.7	357.26	
12,587.0	93.20	6.30	8,619.9	4,019.6	-177.7	4,023.5	357.47	
12,682.0	93.60	5.00	8,614.3	4,114.0	-168.4	4,117.4	357.66	
12,779.0	92.50	4.50	8,609.1	4,210.5	-160.4	4,213.5	357.82	
12,874.0	90.00	4.70	8,607.1	4,305.1	-152.7	4,307.9	357.97	
12,970.0	88.10	5.90	8,608.7	4,400.7	-143.9	4,403.1	358.13	
13,065.0	89.50	5.70	8,610.6	4,495.2	-134.3	4,497.2	358.29	
13,160.0	88.50	6.40	8,612.3	4,589.7	-124.3	4,591.3	358.45	
13,256.0	89.80	5.70	8,613.7	4,685.1	-114.2	4,686.5	358.60	
13,352.0	89.00	5.20	8,614.7	4,780.7	-105.0	4,781.8	358.74	
13,448.0	90.70	4.00	8,615.0	4,876.4	-97.3	4,877.3	358.86	
13,541.0	91.00	3.80	8,613.6	4,969.1	-91.0	4,970.0	358.95	
13,636.0	88.70	3.60	8,613.8	5,063.9	-84.9	5,064.6	359.04	
13,732.0	90.20	3.30	8,614.8	5,159.7	-79.1	5,160.4	359.12	
13,828.0	92.10	2.60	8,612.8	5,255.6	-74.2	5,256.1	359.19	
13,924.0	90.30	2.80	8,610.8	5,351.5	-69.6	5,351.9	359.25	
13,999.0	91.40	2.20	8,609.7	5,426.4	-66.4	5,426.8	359.30	
14,049.0	91.40	2.20	8,608.5	5,476.3	-64.5	5,476.7	359.33	
TD @ 14049.0' MD / 8608.5' TVD								

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
7,785.0	7,782.5	-55.3	2.7	MWD Tie In @ 7785.0' MD / 7782.5' TVD	
14,049.0	8,608.5	5,476.3	-64.5	TD @ 14049.0' MD / 8608.5' TVD	

Checked By: _____ Approved By: _____ Date: _____