

State of New Mexico
Energy, Minerals and Natural Resources Department

Michelle Lujan Grisham
Governor

Sarah Cottrell Propst
Cabinet Secretary

Todd E. Leahy, JD, PhD
Deputy Secretary

Adrienne Sandoval, Division Director
Oil Conservation Division



Notice of C-104 Denial and Request for Information

OCD denies your C-104 – *Request for Allowable and Authorization to Transport* because it is incomplete or conflicts with other information provided to OCD.

The sale or transport of product without a C-104 approved by OCD violates the Oil and Gas Act and the implementing rules, including 19.15.7.15 and 19.15.16.19 NMAC.

To avoid an enforcement action, you must submit the indicated information no later than 30 days after receipt of this notice.

Test Allowable, New Well and Recompleted Well *Amend C-104*

- ☐ C-103 (or BLM equivalent) for all casing strings
 - ☐ Spud Notice
 - ☐ Surface Casing
 - ☒ Intermediate Casing (if applicable)
 - ☒ Additional Intermediate Casing (if applicable)
 - ☒ Production Casing or Liner
- ☐ Applicable Order (NSL, NSP, Other _____)
- ☐ Deviation Survey for Vertical Wells
- ☒ Directional Survey
 - ☒ C-102 (As-Drilled Plat for Horizontal Well)

New Well and Recompleted Well Only

- ☐ C-103 Completion Sundry (or BLM equivalent)
- ☐ C-105 Completion Report (or BLM equivalent)
- ☐ All Logs Run on Well

If you have any questions please contact the local OCD District Office

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., 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

NM OIL CONSERVATION
ARTESIA DISTRICT

Form C-104
Revised August 1, 2011

SEP 19 2019

Submit one copy to appropriate District Office

RECEIVED ☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address XTO Permian Operation LLC 6401 Holiday Hill Rd., Bldg 5 Midland, TX 79707		² OGRID Number 373075
		³ Reason for Filing Code/ Effective Date RT
⁴ API Number 30-015-43284	⁵ Pool Name GATUNA CANYON; BONE SPRING	⁶ Pool Code 96688
⁷ Property Code 325503	⁸ Property Name BIG EDDY UNIT D14	⁹ Well Number 267H

II. ¹⁰ Surface Location

Ul or lot no. J	Section 5	Township 20S	Range 31E	Lot Idn	Feet from the 1840	North/South Line South	Feet from the 2095	East/West line East	County Eddy
--------------------	--------------	-----------------	--------------	---------	-----------------------	---------------------------	-----------------------	------------------------	----------------

¹¹ Bottom Hole Location

Ul or lot no. 6	Section 6	Township 20S	Range 31E	Lot Idn	Feet from the 1925	North/South line South	Feet from the 34	East/West line West	County Eddy
¹² Lse Code	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
273222	Great Lakes Pet. Trans LLC	O
151618	Enterprise Field Services	G

IV. Well Completion Data

²¹ Spud Date 04/05/19	²² Ready Date 08/27/19	²³ TD 17170	²⁴ PBTB	²⁵ Perforations 9442-17043	²⁶ DHC, MC
²⁷ Hole Size	²⁸ Casing & Tubing Size *	²⁹ Depth Set	³⁰ Sacks Cement		
20	16	690	703		
14.75	11.75	2474	1280		
10.625	8.625	4264	1128		
7.875	5.5	17170	1754		
	2.875	8390			

V. Well Test Data

³¹ Date New Oil	³² Gas Delivery Date	³³ Test Date	³⁴ Test Length	³⁵ Tbg. Pressure	³⁶ Csg. Pressure
³⁷ Choke Size	³⁸ Oil	³⁹ Water	⁴⁰ Gas		⁴¹ Test Method Gas lift

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:

Cheryl Rowell

Printed name:

CHERYL ROWELL

Title:

REGULATORY COORDINATOR

E-mail Address:

CHERYL_ROWELL@XTOENERGY.COM

Date:

09/17/19

Phone:

432-571-8205

OIL CONSERVATION DIVISION

Approved by:

DENIED

Title:

See Attached Cover Sheet

Approval Date:

* Htg. size 4 class

NM OIL CONSERVATION

ARTESIA DISTRICT

Form C-102

SEP 19 2019

Revised August 1, 2011

Submit one copy to appropriate

District Office

RECEIVED

☒ AMENDED REPORT

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

WELL LOCATION AND ACREAGE DEDICATION PLAT AS-DRILLED PLAT

¹ API Number 30-015-43284	² Pool Code 96688	³ Pool Name Gatuna Canyon; Bone Spring
⁴ Property Code 325503	⁵ Property Name BIG EDDY UNIT DI 4	⁶ Well Number 267H
⁷ OGRID No. 373075	⁸ Operator Name XTO PERMIAN OPERATING, LLC.	⁹ Elevation 3,465'

¹⁰ Surface Location

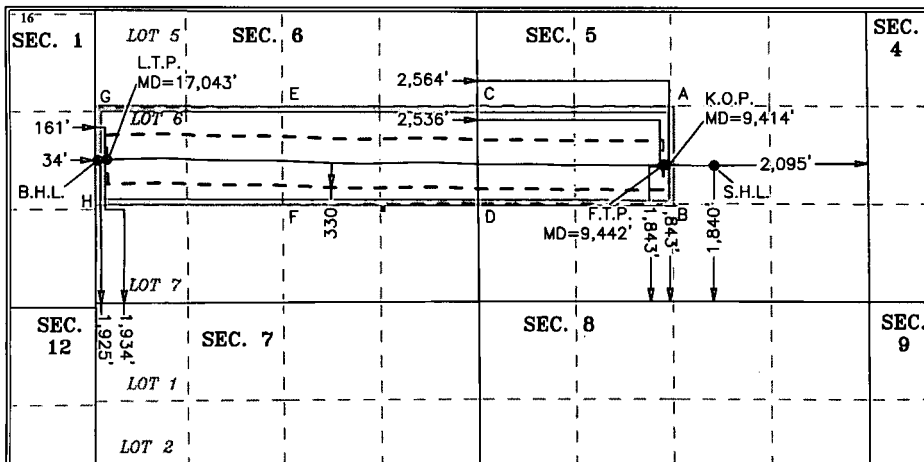
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	5	20 S	31 E		1,840	SOUTH	2,095	EAST	EDDY

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
6	6	20 S	31 E		1,925	SOUTH	34	WEST	EDDY

¹² Dedicated Acres 238.11	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
---	-------------------------------	----------------------------------	-------------------------

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



¹⁷ OPERATOR CERTIFICATION

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.

Signature: Cheryl Rowell Date: 9/16/19

Printed Name: Cheryl Rowell

E-mail Address: cheryl_rowell@xtoenergy.com

¹⁸ 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.

9-11-2019

Date of Survey

Signature and Seal of Professional Surveyor:



MARK DILLON HARP 23786
Certificate Number

JC

2019020578

CORNER COORDINATES TABLE

NAD 83 NME

A - Y= 583,203.1 N, X= 677,410.2 E
B - Y= 581,884.3 N, X= 677,421.7 E
C - Y= 583,210.0 N, X= 674,761.9 E
D - Y= 581,885.1 N, X= 674,774.2 E
E - Y= 583,185.1 N, X= 672,102.4 E
F - Y= 581,865.1 N, X= 672,107.4 E
G - Y= 583,161.2 N, X= 669,548.1 E
H - Y= 581,844.8 N, X= 669,550.9 E

CORNER COORDINATES TABLE

NAD 27 NME

A - Y= 583,141.2 N, X= 636,230.9 E
B - Y= 581,822.5 N, X= 636,242.3 E
C - Y= 583,148.1 N, X= 633,582.6 E
D - Y= 581,823.3 N, X= 633,594.8 E
E - Y= 583,123.2 N, X= 630,923.1 E
F - Y= 581,803.3 N, X= 630,928.0 E
G - Y= 583,099.3 N, X= 628,368.8 E
H - Y= 581,783.0 N, X= 628,371.5 E

LOT ACREAGE TABLE

SECTION 6, T20S R31E

LOT 5 - 37.71 ACRES
LOT 6 - 38.11 ACRES
LOT 7 - 38.50 ACRES

SECTION 7, T20S R31E

LOT 1 - 38.73 ACRES
LOT 2 - 38.78 ACRES

GEODETTIC COORDINATES

NAD 83 NME

SURFACE LOCATION
Y= 582,402.4
X= 677,993.7
LAT.= 32.600293°N
LONG.= 103.889576°W

K.O.P.

NAD 83 NME
Y= 582,408.1
X= 677,333.8
LAT.= 32.600316°N
LONG.= 103.891719°W

FIRST TAKE POINT

NAD 83 NME
Y= 582,407.8
X= 677,305.8
LAT.= 32.600315°N
LONG.= 103.891810°W

LAST TAKE POINT

NAD 83 NME
Y= 582,463.0
X= 669,710.5
LAT.= 32.600552°N
LONG.= 103.916473°W

BOTTOM HOLE LOCATION

NAD 83 NME
Y= 582,453.7
X= 669,584.0
LAT.= 32.600527°N
LONG.= 103.916883°W

SURFACE LOCATION

NAD 27 NME

Y= 582,340.6
X= 636,814.3
LAT.= 32.600174°N
LONG.= 103.889073°W

K.O.P.

NAD 27 NME
Y= 582,346.3
X= 636,154.4
LAT.= 32.600197°N
LONG.= 103.891216°W

FIRST TAKE POINT

NAD 27 NME
Y= 582,346.0
X= 636,126.4
LAT.= 32.600196°N
LONG.= 103.891307°W

LAST TAKE POINT

NAD 27 NME
Y= 582,401.2
X= 628,531.2
LAT.= 32.600432°N
LONG.= 103.915969°W

BOTTOM HOLE LOCATION

NAD 27 NME
Y= 582,391.9
X= 628,404.7
LAT.= 32.600408°N
LONG.= 103.916379°W

NM OIL CONSERVATION
ARTESIA DISTRICT

SEP 19 2019

Intent ☐ As Drilled ☒

RECEIVED

API # 30-015-43284		
Operator Name: XTO Permian Operating LLC	Property Name: Big Eddy Unit D14	Well Number 267H

Kick Off Point (KOP)

UL K	Section 5	Township 20S	Range 31E	Lot	Feet 1843	From N/S South	Feet 2564	From E/W West	County Eddy
Latitude 32.600316					Longitude 103.891719			NAD 83	

First Take Point (FTP)

UL K	Section 5	Township 20S	Range 31E	Lot	Feet 1843	From N/S South	Feet 2536	From E/W West	County Eddy
Latitude 32.600315					Longitude 103.891810			NAD 83	

Last Take Point (LTP)

UL 6	Section 6	Township 20S	Range 31E	Lot	Feet 1934	From N/S South	Feet 161	From E/W West	County Eddy
Latitude 32.600552					Longitude 103.916473			NAD 83	

Is this well the defining well for the Horizontal Spacing Unit? ☒

Is this well an infill well? ☐

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #		
Operator Name:	Property Name:	Well Number

KZ 06/29/2018

SEP 19 2019

Well Header

Well Name: BIG EDDY UNIT DI4 267H

API/UWI: 3001543284

State/Prov: New Mexico

Surface Location: T20S-R31E-S05

SAP Cost Center ID: 1568751001

County: Eddy

Spud Date: 2019/04/05 17:00

Permit No.:

RECEIVED

Orig KB Elev (ft): 3,483.00

Gr Elev (ft): 3,465.00

KB-Grd (ft): 18.00

Wellbores

Wellbore Name: Original Hole

Kick Off Depth (MD) (ftKB): 8,414.0

KO Method: Steerable Motor

Actual Deviation Survey: 4/5/2019 17:00, MWD

VS Dir (°):

Lat/Long Datum: NAD 27

Latitude (°): Longitude (°):

Deviation Surveys

Date: 2019/04/05

Des: MWD

Decl (°): 0.00

MD Tie In (ftKB): 0.00

Inclination Tie In (°): 0.0

Azimuth Tie In (°): 0.0

TVD Tie In (ftKB): 0.00

NSTie In (ft): 0.00

EWTie In (ft): 0.00

Survey Data

MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
0	0	0	0	0	0	0	0
77	0.3	6.3	77	-0.02	0.2	0.02	0.39
181	0.1	345.9	181	-0.03	0.56	0.03	0.2
285	0.6	321.8	285	0.34	1.07	-0.33	0.49
378	0.7	280.2	377.99	1.2	1.56	-1.19	0.51
467	0.6	265	466.99	2.2	1.61	-2.19	0.22
554	0.9	240.8	553.98	3.25	1.24	-3.24	0.49
639	0.3	20.6	638.98	3.75	1.12	-3.74	1.35
745	0.4	232.5	744.97	3.95	1.16	-3.94	0.64
834	0.3	252.8	833.97	4.41	0.9	-4.41	0.18
924	0.1	273.4	923.97	4.72	0.83	-4.71	0.23
1013	0.4	241.7	1,012.97	5.07	0.69	-5.06	0.36
1103	0.1	332.7	1,102.97	5.38	0.61	-5.38	0.46
1192	0	13.8	1,191.97	5.42	0.68	-5.41	0.11
1282	0.2	248.5	1,281.97	5.56	0.62	-5.56	0.22
1372	0.2	18.5	1,371.97	5.66	0.72	-5.65	0.4
1461	0.3	305.9	1,460.97	5.8	1	-5.79	0.34
1551	0.6	352.9	1,550.97	6.05	1.61	-6.04	0.5
1641	0.7	15.1	1,640.96	5.97	2.6	-5.96	0.3
1730	1.1	53.5	1,729.95	5.15	3.64	-5.13	0.79
1820	1.7	66.5	1,819.92	3.24	4.68	-3.21	0.75
1909	1.8	95.2	1,908.88	0.64	5.08	-0.61	0.98
1999	2.6	89.9	1,998.82	-2.81	4.96	2.84	0.92
2089	2.1	63.9	2,088.74	-6.33	5.69	6.36	1.29
2133	1.8	31.6	2,132.72	-7.41	6.63	7.45	2.55
2178	2	43.1	2,177.69	-8.31	7.81	8.36	0.95
2268	2	36	2,267.64	-10.29	10.22	10.35	0.28
2357	2.5	292.3	2,356.60	-9.4	12.22	9.47	3.99
2414	2.3	292.9	2,413.55	-7.19	13.13	7.27	0.35
2541	1.9	281.6	2,540.46	-2.77	14.55	2.86	0.45
2630	2.2	283.7	2,629.41	0.34	15.25	-0.25	0.35
2720	2.2	283.18	2,719.34	3.71	16.05	-3.61	0.02
2809	2.24	282.9	2,808.27	7.07	16.83	-6.97	0.05

MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
2989	1.4	252.15	2,988.19	12.59	16.94	-12.49	0.7
3078	1.36	248.82	3,077.16	14.61	16.23	-14.51	0.1
3168	1.32	263.58	3,167.14	16.63	15.73	-16.54	0.38
3258	1.41	263.84	3,257.11	18.76	15.49	-18.67	0.1
3347	1.41	263.67	3,346.08	20.94	15.25	-20.84	0
3437	1.36	261.65	3,436.06	23.09	14.98	-23	0.08
3527	1.49	260.07	3,526.03	25.3	14.62	-25.21	0.15
3616	1.32	258.13	3,615.00	27.44	14.21	-27.35	0.2
3706	1.19	259.63	3,704.98	29.37	13.83	-29.29	0.15
3795	1.1	263.76	3,793.96	31.13	13.57	-31.05	0.14
3885	1.19	259.63	3,883.94	32.9	13.31	-32.82	0.14
3974	1.14	258.57	3,972.93	34.68	12.96	-34.6	0.06
4064	1.19	246.18	4,062.91	36.41	12.41	-36.33	0.28
4154	1.1	254.79	4,152.89	38.09	11.8	-38.02	0.22
4243	1.05	250.48	4,241.87	39.68	11.31	-39.61	0.11
4275	1.05	250.48	4,273.87	40.23	11.11	-40.17	0
4309	1.09	251.63	4,307.86	40.83	10.91	-40.77	0.13
4353	1.14	254.96	4,351.85	41.65	10.66	-41.59	0.19
4443	1.6	38.84	4,441.84	41.73	11.41	-41.66	2.9
4533	1.51	36.8	4,531.81	40.25	13.34	-40.17	0.12
4622	1.61	38.72	4,620.78	38.77	15.25	-38.68	0.13
4712	1.63	36.53	4,710.74	37.23	17.26	-37.13	0.07
4802	1.45	30.72	4,800.71	35.9	19.27	-35.78	0.26
4891	1.38	27.08	4,889.68	34.85	21.19	-34.72	0.13
4981	1.04	141.25	4,979.67	33.85	21.52	-33.72	2.27
5070	0.84	145.86	5,068.66	32.97	20.35	-32.85	0.24
5160	0.8	142.46	5,158.65	32.21	19.31	-32.09	0.07
5250	0.83	149.96	5,248.64	31.49	18.25	-31.38	0.12
5339	0.7	156.68	5,337.63	30.95	17.19	-30.85	0.18
5429	0.65	153.68	5,427.63	30.5	16.23	-30.4	0.07
5519	0.52	163.98	5,517.62	30.16	15.38	-30.06	0.19
5608	0.43	165.52	5,606.62	29.96	14.66	-29.87	0.1
5698	0.34	168.12	5,696.62	29.81	14.08	-29.73	0.1
5787	0.28	177.07	5,785.62	29.74	13.6	-29.66	0.09
5877	0.2	193.65	5,875.61	29.77	13.23	-29.69	0.12
5966	0.1	223.44	5,964.61	29.86	13.02	-29.78	0.14
6055	0.1	238.95	6,053.61	29.98	12.92	-29.9	0.03
6145	0.16	240.88	6,143.61	30.15	12.82	-30.08	0.07
6234	1.38	106.14	6,232.61	29.23	12.46	-29.15	1.68
6324	1.36	104.81	6,322.58	27.15	11.89	-27.08	0.04
6414	1.25	103.96	6,412.56	25.16	11.38	-25.1	0.12
6503	1.13	103.32	6,501.54	23.37	10.94	-23.3	0.14
6593	1.19	103.23	6,591.52	21.59	10.53	-21.53	0.07
6682	1.22	101.79	6,680.50	19.76	10.12	-19.7	0.05
6772	1.03	102.27	6,770.48	18.03	9.75	-17.97	0.21
6862	0.85	106.91	6,860.47	16.6	9.39	-16.54	0.22
6951	0.89	115.54	6,949.46	15.34	8.9	-15.29	0.15
7041	0.8	131.84	7,039.45	14.24	8.18	-14.19	0.28
7130	0.72	141.55	7,128.44	13.42	7.32	-13.38	0.17

MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
7220	0.55	158.06	7,218.44	12.9	6.48	-12.86	0.28
7309	0.42	204.46	7,307.43	12.87	5.79	-12.84	0.45
7399	0.54	230.51	7,397.43	13.33	5.22	-13.3	0.27
7489	0.46	230.09	7,487.43	13.94	4.72	-13.91	0.09
7578	0.31	214.75	7,576.43	14.34	4.29	-14.32	0.2
7668	0.28	203.9	7,666.42	14.57	3.89	-14.55	0.07
7758	0.37	230.74	7,756.42	14.88	3.5	-14.86	0.19
7847	1.08	239.56	7,845.41	15.82	2.9	-15.81	0.81
7937	1.44	236.86	7,935.39	17.5	1.85	-17.48	0.41
8027	0.6	120.55	8,025.38	18.03	0.99	-18.03	1.99
8116	0.55	154.68	8,114.38	17.44	0.37	-17.44	0.38
8206	0.62	156.91	8,204.37	17.06	-0.47	-17.07	0.08
8296	0.68	152.89	8,294.37	16.62	-1.39	-16.63	0.08
8356	0.71	153.39	8,354.36	16.29	-2.04	-16.3	0.05
8404	0.65	183.99	8,402.36	16.17	-2.58	-16.19	0.76
8449	5.77	269.36	8,447.28	18.45	-2.86	-18.47	12.79
8494	11.45	277.65	8,491.76	25.15	-2.29	-25.16	12.89
8539	15.06	274.95	8,535.55	35.41	-1.19	-35.42	8.14
8584	17.73	272.61	8,578.72	48.09	-0.38	-48.09	6.11
8628	19.95	268.56	8,620.36	62.29	-0.26	-62.29	5.85
8673	23.96	264.37	8,662.09	79.06	-1.35	-79.07	9.56
8718	28.42	264.18	8,702.46	98.8	-3.33	-98.82	9.91
8763	32.12	267.26	8,741.32	121.4	-4.99	-121.43	8.91
8808	35.66	268.86	8,778.67	146.47	-5.82	-146.51	8.11
8852	38.63	268.56	8,813.74	173.02	-6.42	-173.07	6.76
8897	43.33	271.46	8,847.71	202.52	-6.38	-202.56	11.26
8942	47.28	273.89	8,879.35	234.47	-4.87	-234.5	9.58
8987	51.41	273.59	8,908.67	268.54	-2.64	-268.56	9.19
9032	55.45	273.85	8,935.47	304.61	-0.3	-304.62	8.99
9077	57.99	272	8,960.16	342.19	1.61	-342.18	6.61
9121	60.68	271.42	8,982.60	380.02	2.74	-380.01	6.22
9166	65.55	270.53	9,002.95	420.14	3.41	-420.13	10.96
9211	69.55	271.23	9,020.13	461.72	4.06	-461.7	9
9256	74.13	271.63	9,034.15	504.46	5.13	-504.44	10.21
9301	77.6	271.25	9,045.14	548.08	6.22	-548.06	7.75
9346	81.19	269.49	9,053.42	592.31	6.5	-592.28	8.86
9390	85.03	269.14	9,058.69	635.97	5.98	-635.95	8.76
9435	89.69	269.38	9,060.77	680.9	5.4	-680.88	10.37
9480	90.17	269.15	9,060.82	725.9	4.82	-725.88	1.18
9569	90.48	269.33	9,060.32	814.88	3.64	-814.87	0.4
9659	91.06	269.32	9,059.11	904.85	2.58	-904.86	0.64
9749	91.93	268.92	9,056.76	994.8	1.2	-994.81	1.06
9838	92.64	268.65	9,053.21	1,083.70	-0.69	-1,083.72	0.85
9928	91.35	270.27	9,050.08	1,173.63	-1.53	-1,173.66	2.3
10018	92.19	270.32	9,047.30	1,263.58	-1.07	-1,263.61	0.93
10107	89.52	271.07	9,045.97	1,352.56	0.01	-1,352.59	3.12
10197	89.75	270.88	9,046.54	1,442.56	1.54	-1,442.57	0.33
10286	90.31	270.46	9,046.50	1,531.55	2.58	-1,531.57	0.79
10376	90.34	269.67	9,045.99	1,621.55	2.68	-1,621.56	0.88

MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
10465	90.48	268.84	9,045.35	1,710.53	1.53	-1,710.55	0.95
10555	90.9	267.92	9,044.27	1,800.47	-1.02	-1,800.51	1.12
10645	89.89	268.75	9,043.64	1,890.41	-3.63	-1,890.47	1.45
10734	88.57	269.98	9,044.84	1,979.39	-4.62	-1,979.45	2.03
10824	89.64	271.85	9,046.25	2,069.37	-3.18	-2,069.42	2.39
10914	91.21	273.08	9,045.58	2,159.30	0.69	-2,159.33	2.22
11003	92.77	272.07	9,042.49	2,248.17	4.69	-2,248.19	2.09
11093	93.62	270.6	9,037.47	2,338.02	6.78	-2,338.02	1.88
11183	92.58	271.74	9,032.61	2,427.87	8.62	-2,427.86	1.71
11272	90.22	270.77	9,030.43	2,516.83	10.56	-2,516.81	2.87
11362	90.7	270.06	9,029.71	2,606.82	11.22	-2,606.80	0.95
11451	91.49	269.91	9,028.01	2,695.80	11.19	-2,695.79	0.9
11541	92.3	269.19	9,025.03	2,785.75	10.49	-2,785.73	1.2
11631	93.39	268.17	9,020.56	2,875.59	8.42	-2,875.60	1.66
11720	91.15	268.72	9,017.04	2,964.47	6	-2,964.49	2.59
11810	89.08	270.36	9,016.86	3,054.45	5.28	-3,054.48	2.93
11899	88.57	272.19	9,018.68	3,143.42	7.26	-3,143.43	2.13
11989	89.13	272.47	9,020.49	3,233.34	10.92	-3,233.34	0.7
12078	91.46	272.79	9,020.03	3,322.27	15	-3,322.24	2.64
12168	92.35	272	9,017.04	3,412.16	18.76	-3,412.11	1.32
12258	93.14	271.74	9,012.73	3,502.02	21.69	-3,501.96	0.92
12347	91.57	271.7	9,009.07	3,590.92	24.36	-3,590.84	1.76
12437	92.6	272.91	9,005.80	3,680.80	27.98	-3,680.70	1.76
12527	92.19	270.65	9,002.04	3,770.69	30.77	-3,770.57	2.55
12616	93.11	270.38	8,997.92	3,859.60	31.57	-3,859.47	1.08
12706	91.35	269.88	8,994.42	3,949.52	31.78	-3,949.40	2.03
12796	92.13	269.46	8,991.69	4,039.47	31.26	-4,039.36	0.98
12886	93.28	268.78	8,987.44	4,129.35	29.88	-4,129.25	1.48
12975	91.4	268.44	8,983.81	4,218.23	27.72	-4,218.14	2.15
13065	92.13	268.56	8,981.03	4,308.14	25.37	-4,308.07	0.82
13155	90.73	268.78	8,978.79	4,398.07	23.28	-4,398.01	1.57
13280	90	268.11	8,977.99	4,523.00	19.88	-4,522.96	0.79
13369	91.09	268.92	8,977.15	4,611.95	17.58	-4,611.93	1.53
13459	91.43	268.95	8,975.17	4,701.90	15.91	-4,701.89	0.38
13549	90.5	270.49	8,973.65	4,791.88	15.47	-4,791.87	2
13638	90.34	271.59	8,973.00	4,880.87	17.08	-4,880.85	1.25
13728	90.34	270.93	8,972.46	4,970.85	19.06	-4,970.83	0.73
13818	90.36	269.92	8,971.91	5,060.85	19.73	-5,060.82	1.12
13908	90.34	271.55	8,971.36	5,150.84	20.88	-5,150.81	1.81
13997	90.5	270.98	8,970.71	5,239.83	22.85	-5,239.79	0.67
14087	91.01	273.07	8,969.53	5,329.78	26.03	-5,329.72	2.39
14177	91.71	273.79	8,967.39	5,419.62	31.41	-5,419.53	1.12
14266	92.13	272.97	8,964.41	5,508.45	36.65	-5,508.32	1.03
14356	92.61	272.16	8,960.69	5,598.30	40.68	-5,598.16	1.05
14446	93.17	271.26	8,956.15	5,688.16	43.36	-5,688.00	1.18
14535	91.09	272.55	8,952.84	5,777.06	46.32	-5,776.88	2.75
14625	90.06	272.37	8,951.94	5,866.99	50.18	-5,866.79	1.16
14715	90.56	271.97	8,951.45	5,956.94	53.59	-5,956.73	0.71
14805	90.48	271.56	8,950.63	6,046.91	56.36	-6,046.68	0.46

MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
14894	90.28	270.61	8,950.04	6,135.90	58.05	-6,135.66	1.09
14984	90.76	269.67	8,949.23	6,225.90	58.27	-6,225.66	1.17
15074	91.35	269.16	8,947.57	6,315.87	57.35	-6,315.64	0.87
15163	91.6	268.51	8,945.28	6,404.81	55.54	-6,404.59	0.78
15253	91.77	270.46	8,942.63	6,494.75	54.73	-6,494.54	2.17
15343	91.23	271.41	8,940.28	6,584.72	56.2	-6,584.50	1.21
15433	91.65	270.95	8,938.01	6,674.68	58.05	-6,674.45	0.69
15522	91.82	270.65	8,935.32	6,763.64	59.29	-6,763.40	0.39
15612	92.19	270.57	8,932.17	6,853.58	60.25	-6,853.34	0.42
15702	92.72	270.34	8,928.32	6,943.50	60.96	-6,943.25	0.64
15791	90.22	271.96	8,926.03	7,032.45	62.75	-7,032.20	3.35
15881	89.55	272.19	8,926.21	7,122.41	66.01	-7,122.14	0.79
15971	89.83	272.1	8,926.70	7,212.36	69.38	-7,212.07	0.33
16060	90	271.8	8,926.83	7,301.33	72.41	-7,301.02	0.39
16150	90.28	271.71	8,926.61	7,391.30	75.16	-7,390.98	0.33
16240	90.92	271.89	8,925.67	7,481.26	77.99	-7,480.93	0.74
16329	90.73	269.56	8,924.39	7,570.25	79.12	-7,569.90	2.63
16419	91.93	268.22	8,922.30	7,660.19	77.37	-7,659.86	2
16509	93.23	268.03	8,918.25	7,750.03	74.43	-7,749.72	1.46
16598	91.52	269.13	8,914.56	7,838.91	72.23	-7,838.61	2.28
16688	91.23	269.12	8,912.40	7,928.86	70.85	-7,928.57	0.32
16778	91.43	268.77	8,910.31	8,018.81	69.2	-8,018.53	0.45
16867	92.16	268.41	8,907.52	8,107.72	67.01	-8,107.46	0.91
16957	92.33	267.86	8,904.00	8,197.58	64.08	-8,197.35	0.64
17047	92.86	267.49	8,899.92	8,287.39	60.43	-8,287.18	0.72
17102	92.79	265.23	8,897.21	8,342.19	56.95	-8,342.00	4.11
17170	92.79	265.23	8,893.90	8,409.84	51.3	-8,409.68	0