

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 RD., AZTEC, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

DISTRICT IV
1220 S. ST. FRANCIS DR., SANTA FE, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 SOUTH ST. FRANCIS DR.
Santa Fe, New Mexico 87505

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

☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-45532		Pool Code 16800	Pool Name Delaware River; Bone Spring
Property Code 322993	Property Name SRO 5 STATE COM		Well Number 505H
OGRID No. 229137	Operator Name COG OPERATING, LLC		Elevation 3007.5'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	5	26-S	28-E		314	NORTH	925	EAST	EDDY

Bottom Hole Location If Different From Surface

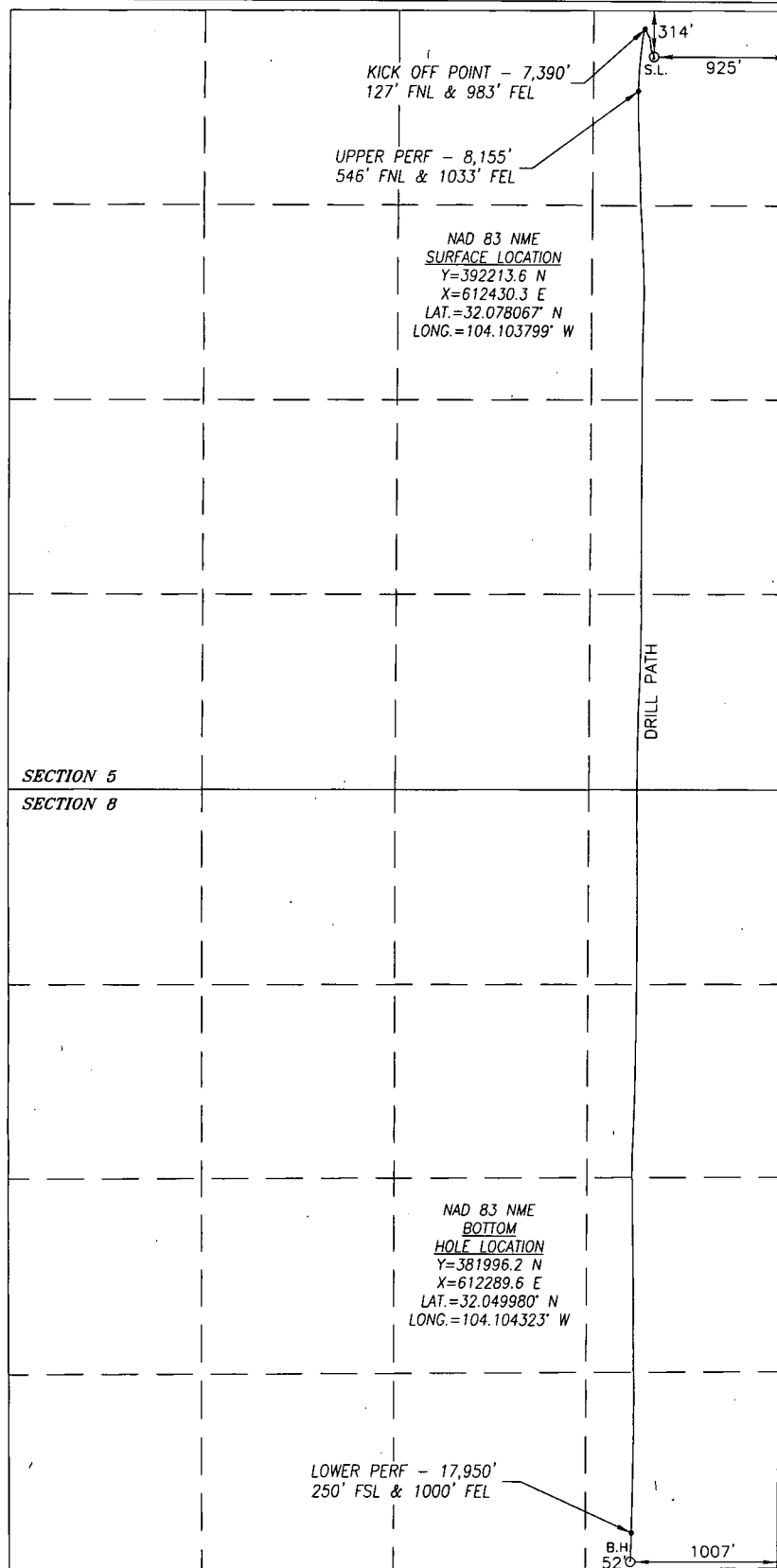
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	8	26-S	28-E		52	SOUTH	1007	EAST	EDDY

Dedicated Acres 320	Joint or Infill	Consolidation Code	Order No.
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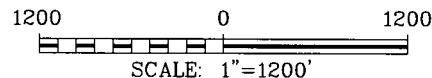
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

SEE PAGE 2

Property Code 322993	Property Name SRO 5 STATE COM	Well Number 505H
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3007.5'



BOREPATH SHOWN HEREON IS BASED ON
DIRECTIONAL SURVEY REPORT PROVIDED BY
COG OPERATING, LLC FOR THE SRO 5 STATE
COM #505H SUPPLIED TO HARCROW SURVEYING,
LLC ON SEPTEMBER 25, 2018.



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.

Amanda Avery 11/4/19
Signature Date

Amanda Avery

Printed Name

aavery@concho.com

E-mail Address

SURVEYOR CERTIFICATION

I hereby certify that the well location
shown on this plat was plotted from field
notes of actual surveys made by me or
under my supervision, and that the same is
true and correct to the best of my belief.

JAN. 14, 2018/MAY 29, 2019

Date of Survey/Date of Geographic Survey

Signature & Seal of Professional Surveyor



Chad Harcrow 10/21/19
Certificate No. CHAD HARCROW 17777

RECEIVED

NOV 19 2019

Intent ☐ As Drilled ☒

DISTRICT 7 - ARTESIA O.C.D.

API #
30-015-45532

Operator Name: COG OPERATING, LLC	Property Name: SRO 5 STATE COM	Well Number 505H
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Kick Off Point (KOP)

UL A	Section 5	Township 26S	Range 28E	Lot	Feet 127	From N/S NORTH	Feet 983	From E/W EAST	County EDDY
Latitude 32.078582					Longitude -104.103991			NAD 83	

First Take Point (FTP)

UL A	Section 5	Township 26S	Range 28E	Lot	Feet 546	From N/S NORTH	Feet 1033	From E/W EAST	County EDDY
Latitude 32.077429					Longitude -104.104139			NAD 83	

Last Take Point (LTP)

UL P	Section 8	Township 26S	Range 28E	Lot	Feet 250	From N/S SOUTH	Feet 1000	From E/W EAST	County EDDY
Latitude 32.050524					Longitude -104.104296			NAD 83	

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

☐ No

Is this well an infill well?

☐ Yes

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

API # 30-025-45534	Operator Name: COG Operating LLC	Property Name: SRO State Com	Well Number 507H
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KZ 06/29/2018

COG

SURVEY REPORT

SRO 5 STATE COM #505H

ENSIGN #777

5/15/2019

This survey is correct to the best of my knowledge and is supported by actual field data.

JAKE ELGER

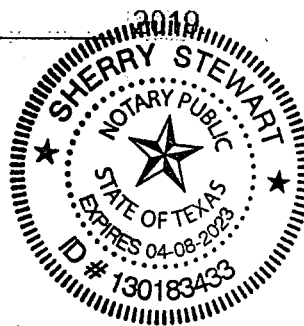
Notarized this date 07 of JUNE

Sherry Stewart

Notary Signature

County of Midland

State of Texas



The Ultimate Partner In Wellbore Placement

SURVEY REPORT

SRO 5 STATE COM #505H

DEFINITIVE KEEPER GYRO SURVEY

CUSTOMER
PROJECT
FIELD

COG
SRO 5 State Com #505H
SRO 5 State Com #505H

SDI JOB NO.
SDI DISTRICT
SDI KIT/UNIT

OP:018618
Midland

SITE INFORMATION

Site Name
Lat/Long
Northing
Easting

SRO 5 State Com #505H
32.0210925° N, 104.0958572° W
371,480.8 ft
573,599.6 ft

Section
Township
Range

MAP INFORMATION

North Reference
Grid Correction
System
Datum
Map Zone

Grid North
-0.13 deg
US State Plane 1927
North American Datum 1927 (Clarke 1866)
New Mexico East: 3001



WELL INFORMATION

Lat/Long
Northing
Easting
UWI

32.0779439° N, 104.1033094° W
392,156.1 ft
571,245.9 ft
30-015-45532

DEPTH AND ELEVATION REFERENCE

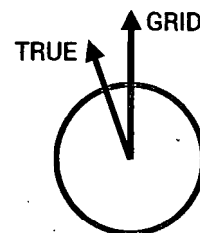
Ground Level
Level
Reference Datum
Reference Height
Reference Elevation

3007.5 ft above Mean Sea
Level
KB
30 ft above G.L.
3037.5 ft

VERTICAL SECTION REFERENCE

+N/-S
+E/-W
Proposal Direction
Calculation Method

0 ft
0 ft
180.69°
Minimum Curvature



LOCAL GRAVITY REFERENCE INFORMATION

Local Gravity
True to Grid

998.526 mG [computed]
subtract 0.13°

WELL NOTES

Keeper Gyro Survey to 7,193'

OPERATORS

C. Booher

SDI Operator Name (Printed)

SIGNATURE

DATE

MD	INC	AZIM	TVD	VS	+N/-S	+E/-W	DLS	CLOSURE DIST	CLOSURE DIR
ft	deg	deg	ft	ft	ft	ft	%100ft	ft	deg
0.00	0.00	0.00	0.00	0.00	0.00	0.00	Invalid	0.00	0.00
100.00	0.07	331.96	100.00	-0.05	0.05	-0.03	0.07	0.06	331.96
125.00	0.11	292.54	125.00	-0.08	0.08	-0.06	0.29	0.10	322.71
150.00	0.13	291.82	150.00	-0.10	0.10	-0.11	0.06	0.14	312.07
175.00	0.20	263.85	175.00	-0.10	0.10	-0.18	0.42	0.20	300.15
200.00	0.12	285.65	200.00	-0.10	0.10	-0.24	0.40	0.27	293.21
225.00	0.22	255.97	225.00	-0.10	0.10	-0.32	0.54	0.33	287.53
250.00	0.19	213.78	250.00	-0.05	0.05	-0.39	0.61	0.39	277.84
275.00	0.20	239.75	275.00	-0.01	0.00	-0.45	0.36	0.45	269.51
300.00	0.15	258.93	300.00	0.04	-0.03	-0.52	0.32	0.52	266.43
325.00	0.25	248.35	325.00	0.07	-0.06	-0.60	0.45	0.60	264.40
350.00	0.35	237.72	350.00	0.13	-0.12	-0.72	0.46	0.73	260.45
375.00	0.42	244.08	375.00	0.21	-0.20	-0.86	0.32	0.89	256.84
400.00	0.49	247.85	400.00	0.30	-0.28	-1.05	0.29	1.08	254.88
425.00	0.68	248.82	425.00	0.39	-0.38	-1.28	0.79	1.34	253.65
450.00	0.54	250.19	449.99	0.49	-0.47	-1.53	0.57	1.61	252.94
475.00	0.66	239.46	474.99	0.61	-0.58	-1.77	0.65	1.86	251.73
500.00	0.71	232.23	499.99	0.78	-0.75	-2.02	0.39	2.15	249.55
525.00	0.80	225.13	524.99	1.00	-0.97	-2.26	0.52	2.46	246.80
550.00	0.87	220.87	549.99	1.27	-1.24	-2.51	0.39	2.80	243.78
575.00	0.94	211.39	574.98	1.59	-1.56	-2.74	0.65	3.15	240.43
600.00	0.92	209.67	599.98	1.94	-1.90	-2.95	0.13	3.51	237.14
625.00	0.95	197.94	624.98	2.31	-2.27	-3.11	0.77	3.85	233.82
650.00	1.10	200.44	649.97	2.73	-2.70	-3.26	0.62	4.23	230.39
675.00	1.35	191.60	674.97	3.25	-3.21	-3.40	1.26	4.67	226.66
700.00	1.47	187.87	699.96	3.86	-3.81	-3.50	0.61	5.18	222.56
725.00	1.64	188.58	724.95	4.53	-4.49	-3.60	0.69	5.75	218.75
750.00	1.77	190.07	749.94	5.27	-5.22	-3.72	0.53	6.41	215.48
775.00	1.94	191.37	774.93	6.06	-6.02	-3.87	0.69	7.15	212.77
800.00	1.89	193.85	799.91	6.88	-6.83	-4.05	0.39	7.94	210.70
825.00	1.91	190.19	824.90	7.69	-7.64	-4.23	0.50	8.73	208.96
850.00	1.84	191.27	849.89	8.49	-8.44	-4.38	0.33	9.51	207.41

MD	INC	AZIM	TVD	VS	N/S	E/W	DLS	CLOSURE	CLOSURE
ft	deg	deg	ft	ft	ft	ft	%/100ft	DIST	DIR
875.00	1.91	190.92	874.87	9.30	-9.24	-4.54	0.32	10.30	206.13
900.00	1.92	192.12	899.86	10.12	-10.06	-4.70	0.16	11.11	205.05
925.00	1.91	192.41	924.84	10.94	-10.88	-4.88	0.06	11.92	204.16
950.00	1.37	205.77	949.83	11.61	-11.55	-5.10	2.63	12.63	203.81
975.00	1.28	215.49	974.83	12.11	-12.05	-5.39	0.96	13.20	204.10
1000.00	0.90	231.63	999.82	12.47	-12.40	-5.71	1.92	13.65	204.72
1025.00	1.08	234.53	1024.82	12.73	-12.66	-6.05	0.73	14.03	205.56
1050.00	1.03	232.97	1049.81	13.00	-12.93	-6.42	0.24	14.44	206.42
1075.00	1.03	231.50	1074.81	13.28	-13.20	-6.78	0.11	14.84	207.18
1100.00	1.10	231.89	1099.81	13.58	-13.49	-7.14	0.26	15.27	207.90
1125.00	1.00	231.84	1124.80	13.86	-13.77	-7.50	0.40	15.69	208.58
1150.00	0.92	222.98	1149.80	14.15	-14.06	-7.81	0.66	16.08	209.06
1175.00	0.99	234.08	1174.80	14.43	-14.33	-8.12	0.78	16.47	209.55
1200.00	1.02	226.53	1199.79	14.71	-14.61	-8.46	0.55	16.88	210.07
1225.00	0.93	233.95	1224.79	14.99	-14.88	-8.79	0.64	17.28	210.56
1250.00	0.97	236.06	1249.78	15.23	-15.12	-9.13	0.24	17.66	211.11
1275.00	0.98	234.63	1274.78	15.48	-15.36	-9.48	0.10	18.05	211.67
1300.00	0.64	229.84	1299.78	15.69	-15.58	-9.76	1.38	18.38	212.06
1325.00	0.39	216.49	1324.78	15.85	-15.74	-9.92	1.09	18.60	212.21
1350.00	0.17	104.20	1349.78	15.93	-15.81	-9.93	1.93	18.67	212.13
1375.00	0.29	73.33	1374.78	15.92	-15.80	-9.84	0.67	18.62	211.90
1400.00	0.41	69.46	1399.78	15.87	-15.76	-9.69	0.50	18.50	211.60
1425.00	0.45	66.26	1424.78	15.80	-15.68	-9.52	0.20	18.35	211.26
1450.00	0.48	70.69	1449.77	15.72	-15.61	-9.33	0.20	18.19	210.87
1475.00	0.50	74.57	1474.77	15.65	-15.55	-9.12	0.16	18.03	210.41
1500.00	0.53	64.64	1499.77	15.57	-15.47	-8.91	0.37	17.85	209.96
1525.00	0.37	82.82	1524.77	15.51	-15.41	-8.73	0.84	17.71	209.53
1550.00	0.44	76.76	1549.77	15.48	-15.37	-8.55	0.33	17.59	209.09
1575.00	0.34	86.66	1574.77	15.45	-15.35	-8.39	0.50	17.49	208.65
1600.00	0.40	69.37	1599.77	15.41	-15.31	-8.23	0.50	17.39	208.26
1625.00	0.52	82.31	1624.77	15.36	-15.27	-8.04	0.64	17.25	207.76
1650.00	0.83	91.69	1649.77	15.35	-15.26	-7.74	1.31	17.11	206.91

MD	INC	AZIM	TVD	VS	NVS	TE/W	DLS	CLOSURE DIST	CLOSURE DIR
ft	deg	deg	ft	ft	ft	ft	%100ft	ft	deg
1675.00	0.83	86.15	1674.77	15.34	-15.25	-7.38	0.32	16.94	205.83
1700.00	0.89	86.64	1699.76	15.31	-15.23	-7.01	0.27	16.76	204.72
1725.00	1.23	85.00	1724.76	15.27	-15.19	-6.55	1.35	16.54	203.31
1750.00	1.35	88.84	1749.75	15.23	-15.16	-5.99	0.59	16.30	201.55
1775.00	1.37	91.83	1774.74	15.23	-15.17	-5.39	0.30	16.10	199.58
1800.00	1.49	89.59	1799.74	15.23	-15.17	-4.77	0.52	15.91	197.46
1825.00	1.48	94.54	1824.73	15.25	-15.20	-4.13	0.51	15.75	195.19
1850.00	1.60	93.41	1849.72	15.28	-15.24	-3.45	0.47	15.63	192.77
1875.00	1.53	99.19	1874.71	15.35	-15.32	-2.78	0.68	15.57	190.27
1900.00	1.58	102.93	1899.70	15.47	-15.45	-2.11	0.44	15.59	187.78
1925.00	1.69	103.14	1924.69	15.63	-15.61	-1.42	0.47	15.67	185.19
1950.00	1.76	107.02	1949.68	15.81	-15.81	-0.69	0.53	15.82	182.50
1975.00	1.75	108.14	1974.67	16.03	-16.04	0.04	0.14	16.04	179.87
2000.00	1.78	104.88	1999.66	16.24	-16.25	0.77	0.42	16.27	177.28
2025.00	1.72	104.98	2024.64	16.43	-16.45	1.51	0.21	16.52	174.75
2050.00	1.57	104.08	2049.63	16.60	-16.63	2.21	0.63	16.78	172.44
2075.00	1.01	91.04	2074.63	16.68	-16.72	2.76	2.52	16.94	170.63
2100.00	0.93	72.80	2099.62	16.62	-16.66	3.17	1.26	16.96	169.22
2125.00	0.82	38.16	2124.62	16.42	-16.46	3.47	2.12	16.83	168.08
2150.00	1.11	13.04	2149.62	16.04	-16.09	3.64	2.02	16.49	167.26
2175.00	1.35	351.74	2174.61	15.52	-15.56	3.65	2.06	15.98	166.80
2200.00	1.37	350.04	2199.61	14.93	-14.97	3.56	0.18	15.39	166.64
2225.00	1.55	350.52	2224.60	14.30	-14.35	3.45	0.71	14.76	166.48
2250.00	1.55	354.93	2249.59	13.64	-13.68	3.36	0.48	14.08	166.18
2275.00	1.66	0.70	2274.58	12.94	-12.98	3.34	0.80	13.40	165.57
2300.00	1.63	356.91	2299.57	12.22	-12.26	3.32	0.46	12.70	164.83
2325.00	1.52	351.60	2324.56	11.54	-11.58	3.26	0.73	12.03	164.29
2350.00	1.64	355.33	2349.55	10.86	-10.90	3.18	0.64	11.35	163.74
2375.00	1.58	354.00	2374.54	10.16	-10.20	3.11	0.28	10.66	163.02
2400.00	1.73	351.21	2399.53	9.44	-9.48	3.02	0.66	9.95	162.33
2425.00	1.56	351.23	2424.52	8.74	-8.77	2.91	0.64	9.24	161.64
2450.00	1.58	351.84	2449.51	8.06	-8.09	2.81	0.09	8.57	160.86

MD	INC	AZIM	TVD	VS	IN/S	TE/W	DLS	CLOSURE DIST	CLOSURE DIR
ft	deg	deg	ft	ft	ft	ft	%/100ft	ft	deg
2475.00	1.55	347.82	2474.50	7.39	7.42	2.69	0.46	7.90	160.08
2500.00	1.61	346.49	2499.49	6.72	6.75	2.54	0.28	7.21	159.41
2525.00	1.61	346.67	2524.48	6.04	6.07	2.37	0.02	6.52	158.64
2550.00	1.60	343.29	2549.47	5.37	5.39	2.19	0.38	5.82	157.88
2575.00	1.71	349.51	2574.46	4.67	-4.69	2.02	0.86	5.11	156.66
2600.00	1.67	349.13	2599.45	3.94	-3.97	1.89	0.19	4.39	154.55
2625.00	1.74	347.79	2624.44	3.22	-3.24	1.74	0.33	3.68	151.77
2650.00	1.67	345.34	2649.43	2.50	-2.52	1.57	0.42	2.96	148.10
2675.00	1.70	344.17	2674.42	1.79	-1.81	1.37	0.19	2.27	142.79
2700.00	1.67	345.83	2699.41	1.08	-1.10	1.18	0.22	1.62	132.89
2725.00	1.66	345.10	2724.40	0.38	0.40	1.00	0.10	1.08	151.60
2750.00	1.72	344.16	2749.38	0.32	0.31	0.81	0.26	0.86	68.75
2775.00	1.69	345.25	2774.37	1.04	1.03	0.61	0.18	1.20	30.65
2800.00	1.67	344.73	2799.36	1.74	1.74	0.42	0.08	1.79	13.60
2825.00	1.65	344.55	2824.35	-2.44	2.44	0.23	0.10	2.45	5.36
2850.00	1.68	346.38	2849.34	-3.14	3.14	0.05	0.25	3.14	0.85
2875.00	1.58	344.68	2874.33	-3.82	3.83	-0.13	0.46	3.83	358.04
2900.00	1.63	344.48	2899.32	-4.50	4.50	-0.32	0.23	4.51	355.97
2925.00	1.68	346.58	2924.31	-5.20	5.20	-0.50	0.32	5.23	354.54
2950.00	1.65	341.03	2949.30	-5.89	5.90	-0.70	0.66	5.94	353.24
2975.00	1.59	343.49	2974.29	-6.56	6.57	-0.92	0.37	6.63	352.07
3000.00	1.70	343.66	2999.28	-7.25	7.26	-1.12	0.46	7.35	351.25
3025.00	1.62	345.31	3024.27	-7.94	7.96	-1.31	0.38	8.07	350.64
3050.00	1.63	344.21	3049.26	-8.62	8.64	-1.50	0.13	8.77	350.16
3075.00	1.69	342.78	3074.25	-9.32	9.34	-1.70	0.30	9.49	349.65
3100.00	1.70	344.66	3099.24	-10.02	10.05	-1.91	0.22	10.23	349.23
3125.00	2.10	331.84	3124.22	-10.78	10.81	-2.23	2.32	11.03	348.36
3150.00	1.71	344.12	3149.21	-11.54	11.57	-2.54	2.24	11.85	347.60
3175.00	1.79	342.99	3174.20	-12.27	12.30	-2.76	0.33	12.61	347.35
3200.00	1.67	344.61	3199.19	-12.99	13.03	-2.97	0.51	13.36	347.15
3225.00	1.62	346.19	3224.18	-13.68	13.72	-3.15	0.26	14.08	347.06
3250.00	1.79	345.48	3249.17	-14.40	14.44	-3.33	0.68	14.82	347.00

MD	INC	AZIM	TVD	VS	N/S	E/W	DLS	CLOSURE	CLOSURE
ft	deg	deg	ft	ft	ft	ft	%/100ft	DIST	DIR
3275.00	1.75	343.17	3274.15	-15.14	15.19	-3.54	0.32	15.59	346.87
3300.00	1.78	339.11	3299.14	-15.87	15.92	-3.79	-0.51	16.36	346.60
3325.00	1.62	337.45	3324.13	-16.55	16.60	-4.07	0.66	17.09	346.24
3350.00	1.70	332.13	3349.12	-17.20	17.26	-4.37	0.69	17.80	345.78
3375.00	1.61	335.77	3374.11	-17.85	17.90	-4.69	0.56	18.51	345.32
3400.00	1.57	317.23	3399.10	-18.41	18.48	-5.07	2.05	19.16	344.66
3425.00	1.76	338.64	3424.09	-19.02	19.08	-5.44	2.58	19.84	344.09
3450.00	1.68	322.42	3449.08	-19.66	19.73	-5.80	1.96	20.57	343.61
3475.00	1.69	336.33	3474.07	-20.29	20.36	-6.18	1.63	21.28	343.13
3500.00	1.78	338.41	3499.06	-20.98	21.06	-6.47	0.44	22.03	342.93
3525.00	1.78	334.67	3524.05	-21.69	21.77	-6.78	0.46	22.80	342.71
3550.00	1.73	332.59	3549.03	-22.37	22.46	-7.12	0.32	23.56	342.42
3575.00	1.75	334.38	3574.02	-23.04	23.14	-7.45	0.23	24.31	342.14
3600.00	1.74	336.42	3599.01	-23.73	23.83	-7.77	0.25	25.06	341.94
3625.00	1.88	334.03	3624.00	-24.45	24.54	-8.10	0.65	25.85	341.73
3650.00	1.74	333.56	3648.99	-25.15	25.25	-8.45	0.57	26.63	341.50
3675.00	1.75	334.87	3673.97	-25.83	25.94	-8.78	0.17	27.39	341.29
3700.00	1.77	337.97	3698.96	-26.53	26.64	-9.09	0.39	28.15	341.16
3725.00	1.80	338.52	3723.95	-27.25	27.37	-9.38	0.13	28.93	341.08
3750.00	1.82	338.42	3748.94	-27.98	28.10	-9.67	0.09	29.72	341.01
3775.00	1.82	336.95	3773.93	-28.71	28.84	-9.97	0.19	30.51	340.93
3800.00	1.87	335.50	3798.91	-29.44	29.57	-10.29	0.29	31.31	340.81
3825.00	1.77	336.41	3823.90	-30.16	30.29	-10.62	0.44	32.10	340.69
3850.00	1.99	340.43	3848.89	-30.92	31.06	-10.92	1.04	32.92	340.63
3875.00	1.82	333.76	3873.87	-31.68	31.82	-11.24	1.11	33.75	340.55
3900.00	1.85	334.64	3898.86	-32.40	32.54	-11.59	0.16	34.54	340.40
3925.00	1.79	331.73	3923.85	-33.11	33.25	-11.94	0.46	35.33	340.24
3950.00	1.76	330.55	3948.83	-33.78	33.93	-12.32	0.18	36.10	340.05
3975.00	1.77	332.20	3973.82	-34.45	34.60	-12.69	0.21	36.86	339.87
4000.00	1.69	327.76	3998.81	-35.10	35.26	-13.06	0.63	37.60	339.67
4025.00	1.62	323.92	4023.80	-35.69	35.85	-13.47	0.52	38.30	339.41
4050.00	1.59	320.69	4048.79	-36.24	36.41	-13.89	0.38	38.97	339.11

MD	INC	AZIM	IVD	VS	N/S	E/W	DLS	CLOSURE DIST	CLOSURE DIR
ft	deg	deg	ft	ft	ft	ft	%/100ft	ft	deg
4075.00	1.61	324.15	4073.78	-36.79	36.96	-14.32	0.39	39.64	338.82
4100.00	1.66	325.46	4098.77	-37.36	37.54	-14.73	0.25	40.33	338.58
4125.00	1.57	324.13	4123.76	-37.93	38.12	-15.13	0.37	41.01	338.34
4150.00	1.60	326.33	4148.75	-38.50	38.68	-15.53	0.26	41.69	338.13
4175.00	1.63	325.23	4173.74	-39.07	39.27	-15.93	0.18	42.37	337.92
4200.00	1.56	325.03	4198.73	-39.64	39.84	-16.32	0.29	43.05	337.72
4225.00	1.54	325.47	4223.72	-40.19	40.39	-16.71	0.08	43.71	337.53
4250.00	1.44	317.28	4248.72	-40.69	40.90	-17.11	0.95	44.34	337.30
4275.00	1.50	329.06	4273.71	-41.20	41.41	-17.49	1.23	44.95	337.10
4300.00	1.43	325.09	4298.70	-41.73	41.95	-17.84	0.49	45.58	336.96
4325.00	1.56	330.96	4323.69	-42.28	42.50	-18.18	0.81	46.23	336.84
4350.00	1.59	334.24	4348.68	-42.88	43.11	-18.50	0.37	46.91	336.78
4375.00	1.89	343.14	4373.67	-43.58	43.81	-18.77	1.62	47.66	336.81
4400.00	2.05	347.52	4398.65	-44.41	44.64	-18.98	0.88	48.51	336.97
4425.00	2.21	348.53	4423.64	-45.32	45.55	-19.17	0.66	49.42	337.17
4450.00	2.06	352.75	4448.62	-46.23	46.47	-19.33	0.85	50.33	337.42
4475.00	2.21	352.17	4473.60	-47.16	47.39	-19.45	0.59	51.23	337.69
4500.00	2.22	353.20	4498.58	-48.11	48.35	-19.57	0.17	52.16	337.96
4525.00	2.32	356.00	4523.56	-49.10	49.34	-19.67	0.60	53.11	338.27
4550.00	2.19	353.40	4548.55	-50.08	50.32	-19.76	0.68	54.06	338.56
4575.00	2.23	354.02	4573.53	-51.03	51.28	-19.86	0.21	54.99	338.83
4600.00	2.29	353.86	4598.51	-52.01	52.26	-19.97	0.24	55.94	339.09
4625.00	2.75	357.31	4623.48	-53.11	53.35	-20.05	1.91	56.99	339.41
4650.00	3.35	355.68	4648.45	-54.43	54.68	-20.13	2.43	58.27	339.79
4675.00	3.39	357.75	4673.40	-55.90	56.14	-20.21	0.52	59.67	340.20
4700.00	3.57	356.22	4698.36	-57.41	57.66	-20.29	0.80	61.13	340.61
4725.00	3.37	358.73	4723.31	-58.92	59.17	-20.36	0.98	62.58	341.01
4750.00	3.36	357.69	4748.27	-60.39	60.64	-20.41	0.25	63.98	341.40
4775.00	3.35	358.65	4773.23	-61.85	62.10	-20.45	0.23	65.38	341.77
4800.00	3.53	354.48	4798.18	-63.35	63.60	-20.55	1.23	66.84	342.10
4825.00	3.45	359.13	4823.13	-64.86	65.12	-20.63	1.18	68.31	342.42
4850.00	3.38	359.13	4848.09	-66.35	66.61	-20.65	0.27	69.74	342.77

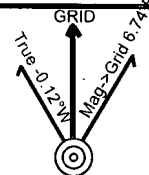
MD	INC	AZIM	TVD	VS	HN/S	CE/W	DLS	CLOSURE DIST	CLOSURE DIR
ft	deg	deg	ft	ft	ft	ft	%/100ft	ft	deg
4875.00	3.33	359.87	4873.05	-67.82	68.07	-20.67	0.28	71.14	343.11
4900.00	3.23	359.14	4898.01	-69.24	69.50	-20.68	0.44	72.51	343.43
4925.00	3.76	357.61	4922.96	-70.77	71.02	-20.72	2.17	73.98	343.73
4950.00	3.21	0.21	4947.91	-72.28	72.54	-20.75	2.29	75.45	344.03
4975.00	3.12	2.42	4972.88	-73.66	73.92	-20.72	0.60	76.77	344.34
5000.00	3.03	1.90	4997.84	-75.01	75.26	-20.67	0.41	78.05	344.64
5025.00	3.00	3.95	5022.81	-76.32	76.57	-20.61	0.45	79.30	344.94
5050.00	2.98	2.34	5047.77	-77.62	77.87	-20.53	0.34	80.54	345.23
5075.00	3.05	1.70	5072.74	-78.94	79.19	-20.49	0.31	81.80	345.49
5100.00	3.00	0.43	5097.70	-80.26	80.51	-20.46	0.33	83.07	345.74
5125.00	3.01	2.58	5122.67	-81.57	81.82	-20.43	0.45	84.33	345.98
5150.00	2.88	357.16	5147.63	-82.85	83.10	-20.43	1.23	85.58	346.19
5175.00	3.43	348.19	5172.60	-84.21	84.46	-20.61	2.96	86.94	346.28
5200.00	3.55	345.09	5197.55	-85.68	85.94	-20.97	0.89	88.46	346.29
5225.00	3.71	347.77	5222.50	-87.22	87.48	-21.34	0.93	90.04	346.29
5250.00	3.73	344.38	5247.45	-88.78	89.05	-21.73	0.89	91.66	346.29
5275.00	3.67	344.53	5272.40	-90.33	90.60	-22.16	0.25	93.28	346.26
5300.00	3.66	346.87	5297.34	-91.87	92.15	-22.55	0.60	94.87	346.25
5325.00	3.83	342.20	5322.29	-93.44	93.73	-22.99	1.40	96.51	346.22
5350.00	3.62	347.57	5347.24	-95.01	95.29	-23.42	1.63	98.13	346.19
5375.00	3.66	348.20	5372.19	-96.55	96.85	-23.75	0.22	99.72	346.22
5400.00	3.51	349.00	5397.14	-98.08	98.38	-24.06	0.65	101.28	346.26
5425.00	3.54	350.14	5422.09	-99.59	99.89	-24.34	0.30	102.81	346.31
5450.00	3.48	351.31	5447.04	-101.09	101.40	-24.58	0.37	104.34	346.37
5475.00	3.58	350.65	5472.00	-102.61	102.92	-24.82	0.45	105.87	346.44
5500.00	3.51	351.17	5496.95	-104.14	104.45	-25.07	0.33	107.41	346.50
5525.00	3.38	351.84	5521.90	-105.62	105.93	-25.29	0.55	108.91	346.57
5550.00	3.33	347.90	5546.86	-107.06	107.37	-25.55	0.95	110.37	346.62
5575.00	3.46	350.92	5571.82	-108.51	108.83	-25.82	0.90	111.85	346.65
5600.00	3.56	348.86	5596.77	-110.01	110.33	-26.09	0.64	113.38	346.70
5625.00	3.36	351.86	5621.72	-111.49	111.82	-26.34	1.09	114.88	346.74
5650.00	3.35	350.84	5646.68	-112.94	113.26	-26.56	0.24	116.34	346.80

MD	INC	AZIM	TVD	VS	N/S	E/W	DLS	CLOSURE DIST	CLOSURE DIR
ft	deg	deg	ft	ft	ft	ft	%/100ft	ft	deg
5675.00	3.37	351.24	5671.64	-114.38	114.71	-26.79	0.15	117.80	346.85
5700.00	3.38	352.08	5696.60	-115.84	116.17	-27.00	0.20	119.27	346.91
5725.00	3.26	353.30	5721.55	-117.27	117.61	-27.19	0.58	120.71	346.98
5750.00	3.25	352.56	5746.51	-118.67	119.01	-27.36	0.17	122.12	347.05
5775.00	3.20	351.86	5771.47	-120.06	120.40	-27.55	0.25	123.52	347.11
5800.00	3.13	350.62	5796.44	-121.42	121.77	-27.76	0.40	124.89	347.16
5825.00	2.99	352.57	5821.40	-122.74	123.09	-27.96	0.67	126.22	347.20
5850.00	3.01	350.26	5846.37	-124.03	124.38	-28.15	0.49	127.53	347.25
5875.00	3.17	346.40	5871.33	-125.35	125.70	-28.43	1.07	128.87	347.26
5900.00	3.07	335.29	5896.29	-126.62	126.98	-28.87	2.45	130.22	347.19
5925.00	3.16	333.41	5921.26	-127.84	128.21	-29.46	0.54	131.55	347.06
5950.00	3.09	331.96	5946.22	-129.05	129.42	-30.08	0.44	132.87	346.91
5975.00	3.10	332.07	5971.18	-130.23	130.61	-30.72	0.07	134.17	346.77
6000.00	3.10	329.97	5996.15	-131.41	131.79	-31.37	0.46	135.48	346.61
6025.00	3.23	331.24	6021.11	-132.60	133.00	-32.05	0.58	136.81	346.45
6050.00	3.05	329.63	6046.07	-133.78	134.19	-32.73	0.82	138.12	346.29
6075.00	3.01	329.18	6071.03	-134.91	135.33	-33.40	0.17	139.39	346.14
6100.00	3.10	326.53	6096.00	-136.03	136.45	-34.11	0.67	140.65	345.97
6125.00	2.85	322.59	6120.97	-137.08	137.51	-34.86	1.29	141.86	345.78
6150.00	2.79	328.07	6145.94	-138.08	138.52	-35.56	1.10	143.01	345.60
6175.00	2.76	326.29	6170.91	-139.09	139.54	-36.21	0.36	144.16	345.45
6200.00	2.46	325.42	6195.88	-140.03	140.48	-36.85	1.23	145.24	345.30
6225.00	2.35	327.49	6220.86	-140.89	141.36	-37.43	0.57	146.23	345.17
6250.00	2.22	319.83	6245.84	-141.69	142.16	-38.02	1.32	147.15	345.03
6275.00	2.27	328.47	6270.82	-142.47	142.95	-38.59	1.37	148.07	344.89
6300.00	2.23	321.19	6295.80	-143.27	143.75	-39.15	1.16	148.99	344.76
6325.00	2.47	331.70	6320.78	-144.11	144.60	-39.71	1.97	149.95	344.64
6350.00	2.66	331.97	6345.75	-145.09	145.59	-40.24	0.78	151.05	344.55
6375.00	2.94	332.75	6370.72	-146.17	146.67	-40.81	1.14	152.24	344.45
6400.00	3.12	330.33	6395.69	-147.32	147.83	-41.44	0.88	153.53	344.34
6425.00	3.55	338.03	6420.65	-148.62	149.14	-42.06	2.46	154.96	344.25
6450.00	3.71	339.31	6445.60	-150.09	150.61	-42.64	0.74	156.53	344.19

MD	INC	AZIM	TVD	VS	N/S	E/W	DLS	CLOSURE DIST	CLOSURE DIR
ft	deg	deg	ft	ft	ft	ft	%/100ft	ft	deg
6475.00	3.75	340.19	6470.54	-151.61	152.14	-43.20	0.28	158.16	344.15
6500.00	3.69	339.31	6495.49	-153.13	153.66	-43.76	0.33	159.77	344.10
6525.00	3.55	338.50	6520.44	-154.59	155.14	-44.33	0.59	161.35	344.05
6550.00	3.41	338.54	6545.39	-156.00	156.55	-44.89	0.58	162.86	344.00
6575.00	3.45	341.49	6570.35	-157.40	157.96	-45.40	0.73	164.35	343.96
6600.00	3.34	337.57	6595.31	-158.78	159.34	-45.92	1.04	165.83	343.93
6625.00	3.23	335.51	6620.27	-160.08	160.66	-46.49	0.64	167.25	343.86
6650.00	3.09	332.95	6645.23	-161.32	161.90	-47.08	0.80	168.60	343.78
6675.00	2.86	335.23	6670.19	-162.48	163.06	-47.65	1.02	169.88	343.71
6700.00	2.79	336.29	6695.16	-163.60	164.19	-48.16	0.36	171.11	343.65
6725.00	3.08	334.72	6720.13	-164.76	165.35	-48.69	1.19	172.37	343.59
6750.00	2.98	333.66	6745.10	-165.94	166.54	-49.27	0.46	173.68	343.52
6775.00	3.12	334.75	6770.06	-167.13	167.74	-49.84	0.63	174.99	343.45
6800.00	2.88	330.52	6795.03	-168.28	168.90	-50.44	1.33	176.28	343.37
6825.00	2.73	328.85	6820.00	-169.33	169.96	-51.06	0.66	177.46	343.28
6850.00	2.75	328.75	6844.97	-170.35	170.98	-51.68	0.08	178.62	343.18
6875.00	2.72	327.76	6869.94	-171.36	172.00	-52.31	0.23	179.78	343.08
6900.00	2.75	329.98	6894.91	-172.37	173.02	-52.92	0.44	180.93	342.99
6925.00	2.69	334.50	6919.88	-173.41	174.07	-53.48	0.89	182.10	342.92
6950.00	2.55	330.03	6944.86	-174.41	175.08	-54.01	0.99	183.22	342.86
6975.00	2.27	334.38	6969.83	-175.34	176.00	-54.50	1.32	184.25	342.80
7000.00	1.99	334.48	6994.82	-176.17	176.84	-54.90	1.12	185.17	342.75
7025.00	1.91	336.32	7019.80	-176.94	177.62	-55.25	0.40	186.01	342.72
7050.00	1.69	341.76	7044.79	-177.67	178.35	-55.54	1.12	186.80	342.70
7075.00	1.64	344.71	7069.78	-178.36	179.05	-55.75	0.39	187.52	342.71
7100.00	1.70	346.86	7094.77	-179.07	179.75	-55.93	0.32	188.25	342.72
7125.00	1.48	350.60	7119.76	-179.74	180.43	-56.06	0.94	188.94	342.74
7150.00	1.46	352.14	7144.75	-180.38	181.07	-56.16	0.18	189.58	342.77
7175.00	1.71	348.83	7169.74	-181.06	181.75	-56.28	1.05	190.26	342.80
7193.00	1.77	342.76	7187.73	-181.58	182.28	-56.41	1.08	190.81	342.80

	Job Number:		Elev. GL:	3007.50 ft	RKB:	30.00 ft	
	Company:		System:	US State Plane 1927 (Exact solution)			
	Lease/Well:		Group:	New Mexico East 3001			
	Location:		Datum:	CLARKE 1866			
	Rig Name:		Mag. Decl.:	6.86° (C:\HawkEye\IGRF2005.mif)			
	State/County:	/	Grid Conv.:	0.12217 E			
	Country:		Date:	Wednesday, May 29, 2019			

Calculated by HawkEye Software
Minimum Curvature Method
Vertical Section Plane 180.69°
Northing (US ft): 392156.10 Easting (US ft): 571245.90
Latitude: 32°04'40.5982" N Longitude: -104°06'11.9138" W
Direction Reference: Grid North



#	Measured Depth (Ft)	INC Deg	AZM Deg	TVD (Ft)	NS (Ft)	EW (Ft)	VS (Ft)	DLS %/100 Ft	Build Rate %/100 Ft	Comment
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	100.00	0.07	331.96	100.00	0.05	-0.03	-0.05	0.07	0.07	
3	125.00	0.11	292.54	125.00	0.08	-0.06	-0.08	0.29	0.16	
4	150.00	0.13	291.82	150.00	0.10	-0.11	-0.10	0.08	0.08	
5	175.00	0.20	263.85	175.00	0.10	-0.18	-0.10	0.42	0.28	
6	200.00	0.12	285.65	200.00	0.10	-0.24	-0.10	0.40	-0.32	
7	225.00	0.22	255.97	225.00	0.10	-0.32	-0.10	0.52	0.40	
8	250.00	0.19	213.78	250.00	0.05	-0.39	-0.05	0.60	-0.12	
9	275.00	0.20	239.75	275.00	0.00	-0.45	0.01	0.35	0.04	
10	300.00	0.15	258.93	300.00	-0.03	-0.52	0.04	0.31	-0.20	
11	325.00	0.25	248.35	325.00	-0.06	-0.60	0.06	0.42	0.40	
12	350.00	0.35	237.72	350.00	-0.12	-0.71	0.13	0.46	0.40	
13	375.00	0.42	244.08	375.00	-0.20	-0.86	0.21	0.33	0.28	
14	400.00	0.49	247.85	400.00	-0.28	-1.04	0.29	0.30	0.28	
15	425.00	0.68	248.82	425.00	-0.37	-1.28	0.39	0.76	0.76	
16	450.00	0.54	250.19	449.99	-0.47	-1.53	0.49	0.56	-0.56	
17	475.00	0.66	239.46	474.99	-0.58	-1.76	0.60	0.66	0.48	
18	500.00	0.71	232.23	499.99	-0.75	-2.01	0.77	0.40	0.20	
19	525.00	0.80	225.13	524.99	-0.97	-2.26	0.99	0.52	0.36	
20	550.00	0.87	220.87	549.99	-1.23	-2.51	1.26	0.37	0.28	
21	575.00	0.94	211.39	574.98	-1.55	-2.74	1.58	0.66	0.28	
22	600.00	0.92	209.67	599.98	-1.90	-2.94	1.94	0.14	-0.08	
23	625.00	0.95	197.94	624.98	-2.27	-3.11	2.31	0.77	0.12	
24	650.00	1.10	200.44	649.97	-2.69	-3.25	2.73	0.63	0.60	
25	675.00	1.35	191.60	674.97	-3.21	-3.40	3.25	1.25	1.00	
26	700.00	1.47	187.87	699.96	-3.81	-3.50	3.86	0.60	0.48	
27	725.00	1.64	188.58	724.95	-4.48	-3.60	4.53	0.68	0.68	
28	750.00	1.77	190.07	749.94	-5.22	-3.72	5.26	0.55	0.52	
29	775.00	1.94	191.37	774.93	-6.01	-3.87	6.06	0.70	0.68	
30	800.00	1.89	193.85	799.91	-6.83	-4.05	6.88	0.39	-0.20	
31	825.00	1.91	190.19	824.90	-7.64	-4.22	7.69	0.49	0.08	
32	850.00	1.84	191.27	849.89	-8.44	-4.37	8.50	0.31	-0.28	
33	875.00	1.91	190.92	874.87	-9.25	-4.53	9.30	0.28	0.28	
34	900.00	1.92	192.12	899.86	-10.06	-4.70	10.12	0.17	0.04	
35	925.00	1.91	192.41	924.84	-10.88	-4.88	10.94	0.06	-0.04	
36	950.00	1.37	205.77	949.83	-11.56	-5.10	11.62	2.63	-2.16	
37	975.00	1.28	215.49	974.83	-12.05	-5.39	12.12	0.97	-0.36	
38	1000.00	0.90	231.63	999.82	-12.40	-5.70	12.47	1.94	-1.52	
39	1025.00	1.08	234.53	1024.82	-12.66	-6.05	12.73	0.75	0.72	
40	1050.00	1.03	232.97	1049.81	-12.93	-6.42	13.01	0.23	-0.20	
41	1075.00	1.03	231.50	1074.81	-13.21	-6.78	13.29	0.11	0.00	
42	1100.00	1.10	231.89	1099.81	-13.50	-7.14	13.58	0.28	0.28	
43	1125.00	1.00	231.84	1124.80	-13.78	-7.50	13.87	0.40	-0.40	
44	1150.00	0.92	222.98	1149.80	-14.06	-7.81	14.15	0.67	-0.32	
45	1175.00	0.99	234.08	1174.79	-14.33	-8.12	14.43	0.79	0.28	

#	Measured Depth (Ft)	INC Deg	AZM Deg	TVD (Ft)	NS (Ft)	EW (Ft)	VS (Ft)	DLS */100 Ft	Build Rate */100 Ft	Comment
46	1200.00	1.02	226.53	1199.79	-14.61	-8.46	14.71	0.54	0.12	
47	1225.00	0.93	233.95	1224.79	-14.89	-8.78	14.99	0.62	-0.36	
48	1250.00	0.97	236.06	1249.78	-15.12	-9.12	15.23	0.21	0.16	
49	1275.00	0.98	234.63	1274.78	-15.37	-9.47	15.48	0.11	0.04	
50	1300.00	0.64	229.84	1299.78	-15.58	-9.75	15.70	1.39	-1.36	
51	1325.00	0.39	216.49	1324.78	-15.74	-9.91	15.86	1.10	-1.00	
52	1350.00	0.17	104.20	1349.78	-15.82	-9.93	15.93	1.92	-0.88	
53	1375.00	0.29	73.33	1374.78	-15.81	-9.83	15.92	0.67	0.48	
54	1400.00	0.41	69.46	1399.78	-15.76	-9.69	15.87	0.49	0.48	
55	1425.00	0.45	66.26	1424.78	-15.69	-9.51	15.80	0.19	0.16	
56	1450.00	0.48	70.69	1449.77	-15.61	-9.32	15.72	0.19	0.12	
57	1475.00	0.50	74.57	1474.77	-15.55	-9.12	15.66	0.15	0.08	
58	1500.00	0.53	64.64	1499.77	-15.47	-8.91	15.58	0.38	0.12	
59	1525.00	0.37	82.82	1524.77	-15.41	-8.72	15.51	0.85	-0.64	
60	1550.00	0.44	76.76	1549.77	-15.38	-8.55	15.48	0.33	0.28	
61	1575.00	0.34	86.66	1574.77	-15.35	-8.38	15.45	0.48	-0.40	
62	1600.00	0.40	69.37	1599.77	-15.32	-8.23	15.41	0.50	0.24	
63	1625.00	0.52	82.31	1624.77	-15.27	-8.03	15.37	0.63	0.48	
64	1650.00	0.83	91.69	1649.77	-15.26	-7.74	15.35	1.31	1.24	
65	1675.00	0.83	86.15	1674.76	-15.25	-7.38	15.34	0.32	0.00	
66	1700.00	0.89	86.64	1699.76	-15.23	-7.00	15.31	0.24	0.24	
67	1725.00	1.23	85.00	1724.76	-15.20	-6.54	15.27	1.37	1.36	
68	1750.00	1.35	88.84	1749.75	-15.17	-5.98	15.24	0.59	0.48	
69	1775.00	1.37	91.83	1774.74	-15.17	-5.39	15.23	0.29	0.08	
70	1800.00	1.49	89.59	1799.74	-15.18	-4.76	15.23	0.53	0.48	
71	1825.00	1.48	94.54	1824.73	-15.20	-4.12	15.25	0.51	-0.04	
72	1850.00	1.60	93.41	1849.72	-15.25	-3.45	15.29	0.50	0.48	
73	1875.00	1.53	99.19	1874.71	-15.32	-2.77	15.35	0.69	-0.28	
74	1900.00	1.58	102.93	1899.70	-15.45	-2.10	15.48	0.45	0.20	
75	1925.00	1.69	103.14	1924.69	-15.61	-1.41	15.63	0.44	0.44	
76	1950.00	1.76	107.02	1949.68	-15.81	-0.68	15.82	0.54	0.28	
77	1975.00	1.75	108.14	1974.67	-16.04	0.05	16.04	0.14	-0.04	
78	2000.00	1.78	104.88	1999.66	-16.26	0.78	16.25	0.42	0.12	
79	2025.00	1.72	104.98	2024.64	-16.45	1.52	16.44	0.24	-0.24	
80	2050.00	1.57	104.08	2049.63	-16.64	2.22	16.61	0.61	-0.60	
81	2075.00	1.01	91.04	2074.63	-16.72	2.77	16.69	2.52	-2.24	
82	2100.00	0.93	72.80	2099.62	-16.67	3.18	16.63	1.27	-0.32	
83	2125.00	0.82	38.16	2124.62	-16.47	3.49	16.42	2.13	-0.44	
84	2150.00	1.11	13.04	2149.62	-16.09	3.65	16.04	2.02	1.16	
85	2175.00	1.35	351.74	2174.61	-15.56	3.67	15.52	2.05	0.96	
86	2200.00	1.37	350.04	2199.60	-14.98	3.57	14.93	0.18	0.08	
87	2225.00	1.55	350.52	2224.60	-14.35	3.46	14.31	0.72	0.72	
88	2250.00	1.55	354.93	2249.59	-13.68	3.38	13.64	0.48	0.00	
89	2275.00	1.66	0.70	2274.58	-12.98	3.35	12.94	0.78	0.44	
90	2300.00	1.63	356.91	2299.57	-12.26	3.34	12.22	0.45	-0.12	
91	2325.00	1.52	351.60	2324.56	-11.58	3.27	11.54	0.73	-0.44	
92	2350.00	1.64	355.33	2349.55	-10.89	3.19	10.86	0.63	0.48	
93	2375.00	1.58	354.00	2374.54	-10.20	3.13	10.16	0.28	-0.24	
94	2400.00	1.73	351.21	2399.53	-9.48	3.03	9.44	0.68	0.60	
95	2425.00	1.56	351.23	2424.52	-8.77	2.92	8.73	0.68	-0.68	
96	2450.00	1.58	351.84	2449.51	-8.09	2.82	8.06	0.10	0.08	
97	2475.00	1.55	347.82	2474.50	-7.42	2.70	7.39	0.46	-0.12	
98	2500.00	1.61	346.49	2499.49	-6.75	2.55	6.72	0.28	0.24	
99	2525.00	1.61	346.67	2524.48	-6.07	2.39	6.04	0.02	0.00	
100	2550.00	1.60	343.29	2549.47	-5.39	2.21	5.36	0.38	-0.04	
101	2575.00	1.71	349.51	2574.46	-4.69	2.04	4.66	0.84	0.44	

#	Measured Depth (Ft)	INC Deg	AZM Deg	TVD (Ft)	NS (Ft)	EW (Ft)	VS (Ft)	DLS */100 Ft	Build Rate */100 Ft	Comment
102	2600.00	1.67	349.13	2599.45	-3.96	1.90	3.94	0.17	-0.16	
103	2625.00	1.74	347.79	2624.44	-3.24	1.75	3.21	0.32	0.28	
104	2650.00	1.67	345.34	2649.43	-2.51	1.58	2.49	0.40	-0.28	
105	2675.00	1.70	344.17	2674.42	-1.80	1.39	1.79	0.18	0.12	
106	2700.00	1.67	345.83	2699.40	-1.09	1.20	1.08	0.23	-0.12	
107	2725.00	1.66	345.10	2724.39	-0.39	1.01	0.38	0.09	-0.04	
108	2750.00	1.72	344.16	2749.38	0.32	0.82	-0.33	0.26	0.24	
109	2775.00	1.69	345.25	2774.37	1.04	0.62	-1.05	0.18	-0.12	
110	2800.00	1.67	344.73	2799.36	1.75	0.43	-1.75	0.10	-0.08	
111	2825.00	1.65	344.55	2824.35	2.44	0.24	-2.45	0.08	-0.08	
112	2850.00	1.68	346.38	2849.34	3.15	0.06	-3.15	0.24	0.12	
113	2875.00	1.58	344.68	2874.33	3.84	-0.12	-3.83	0.44	-0.40	
114	2900.00	1.63	344.48	2899.32	4.51	-0.31	-4.51	0.20	0.20	
115	2925.00	1.68	346.58	2924.31	5.21	-0.49	-5.20	0.31	0.20	
116	2950.00	1.65	341.03	2949.30	5.91	-0.69	-5.90	0.66	-0.12	
117	2975.00	1.59	343.49	2974.29	6.58	-0.90	-6.57	0.37	-0.24	
118	3000.00	1.70	343.66	2999.28	7.27	-1.11	-7.25	0.44	0.44	
119	3025.00	1.62	345.31	3024.27	7.97	-1.30	-7.95	0.37	-0.32	
120	3050.00	1.63	344.21	3049.26	8.65	-1.49	-8.63	0.13	0.04	
121	3075.00	1.69	342.78	3074.25	9.34	-1.69	-9.32	0.29	0.24	
122	3100.00	1.70	344.66	3099.24	10.05	-1.90	-10.03	0.23	0.04	
123	3125.00	2.10	331.84	3124.22	10.82	-2.21	-10.79	2.33	1.60	
124	3150.00	1.71	344.12	3149.21	11.58	-2.53	-11.55	2.25	-1.56	
125	3175.00	1.79	342.99	3174.20	12.31	-2.75	-12.28	0.35	0.32	
126	3200.00	1.67	344.61	3199.19	13.04	-2.96	-13.00	0.52	-0.48	
127	3225.00	1.62	346.19	3224.18	13.73	-3.14	-13.69	0.27	-0.20	
128	3250.00	1.79	345.48	3249.17	14.45	-3.32	-14.41	0.69	0.68	
129	3275.00	1.75	343.17	3274.15	15.19	-3.53	-15.15	0.33	-0.16	
130	3300.00	1.78	339.11	3299.14	15.92	-3.78	-15.88	0.51	0.12	
131	3325.00	1.62	337.45	3324.13	16.61	-4.05	-16.56	0.67	-0.64	
132	3350.00	1.70	332.13	3349.12	17.27	-4.36	-17.21	0.69	0.32	
133	3375.00	1.61	335.77	3374.11	17.91	-4.68	-17.86	0.55	-0.36	
134	3400.00	1.57	317.23	3399.10	18.49	-5.06	-18.42	2.05	-0.16	
135	3425.00	1.76	338.64	3424.09	19.09	-5.43	-19.03	2.58	0.76	
136	3450.00	1.68	322.42	3449.08	19.74	-5.79	-19.67	1.97	-0.32	
137	3475.00	1.69	336.33	3474.07	20.37	-6.16	-20.29	1.63	0.04	
138	3500.00	1.78	338.41	3499.06	21.07	-6.45	-20.99	0.44	0.36	
139	3525.00	1.78	334.67	3524.04	21.78	-6.76	-21.70	0.46	0.00	
140	3550.00	1.73	332.59	3549.03	22.47	-7.10	-22.38	0.32	-0.20	
141	3575.00	1.75	334.38	3574.02	23.15	-7.44	-23.05	0.23	0.08	
142	3600.00	1.74	336.42	3599.01	23.84	-7.76	-23.74	0.25	-0.04	
143	3625.00	1.88	334.03	3624.00	24.55	-8.09	-24.46	0.64	0.56	
144	3650.00	1.74	333.56	3648.99	25.26	-8.44	-25.16	0.56	-0.56	
145	3675.00	1.75	334.87	3673.97	25.95	-8.77	-25.84	0.16	0.04	
146	3700.00	1.77	337.97	3698.96	26.65	-9.08	-26.54	0.39	0.08	
147	3725.00	1.80	338.52	3723.95	27.38	-9.37	-27.26	0.14	0.12	
148	3750.00	1.82	338.42	3748.94	28.11	-9.66	-27.99	0.08	0.08	
149	3775.00	1.82	336.95	3773.92	28.84	-9.96	-28.72	0.19	0.00	
150	3800.00	1.87	335.50	3798.91	29.58	-10.28	-29.45	0.27	0.20	
151	3825.00	1.77	336.41	3823.90	30.31	-10.61	-30.18	0.42	-0.40	
152	3850.00	1.99	340.43	3848.89	31.07	-10.91	-30.94	1.03	0.88	
153	3875.00	1.82	333.76	3873.87	31.83	-11.23	-31.70	1.12	-0.68	
154	3900.00	1.85	334.64	3898.86	32.55	-11.57	-32.41	0.16	0.12	
155	3925.00	1.79	331.73	3923.85	33.26	-11.93	-33.12	0.44	-0.24	
156	3950.00	1.76	330.55	3948.83	33.94	-12.31	-33.79	0.19	-0.12	
157	3975.00	1.77	332.20	3973.82	34.62	-12.68	-34.46	0.21	0.04	

#	Measured Depth (Ft)	INC Deg	AZM Deg	TVD (Ft)	NS (Ft)	EW (Ft)	VS (Ft)	DLS °/100 Ft	Build Rate °/100 Ft	Comment
158	4000.00	1.69	327.76	3998.81	35.27	-13.05	-35.11	0.62	-0.32	
159	4025.00	1.62	323.92	4023.80	35.87	-13.46	-35.70	0.52	-0.28	
160	4050.00	1.59	320.69	4048.79	36.42	-13.88	-36.25	0.38	-0.12	
161	4075.00	1.61	324.15	4073.78	36.97	-14.31	-36.80	0.39	0.08	
162	4100.00	1.66	325.46	4098.77	37.56	-14.72	-37.38	0.25	0.20	
163	4125.00	1.57	324.13	4123.76	38.13	-15.13	-37.95	0.39	-0.36	
164	4150.00	1.60	326.33	4148.75	38.70	-15.52	-38.51	0.27	0.12	
165	4175.00	1.63	325.23	4173.74	39.28	-15.92	-39.09	0.17	0.12	
166	4200.00	1.56	325.03	4198.73	39.86	-16.31	-39.66	0.28	-0.28	
167	4225.00	1.54	325.47	4223.72	40.41	-16.70	-40.21	0.09	-0.08	
168	4250.00	1.44	317.28	4248.71	40.92	-17.10	-40.71	0.94	-0.40	
169	4275.00	1.50	329.06	4273.71	41.43	-17.49	-41.22	1.23	0.24	
170	4300.00	1.43	325.09	4298.70	41.97	-17.83	-41.75	0.49	-0.28	
171	4325.00	1.56	330.96	4323.69	42.52	-18.18	-42.30	0.80	0.52	
172	4350.00	1.59	334.24	4348.68	43.13	-18.49	-42.90	0.38	0.12	
173	4375.00	1.89	343.14	4373.67	43.84	-18.76	-43.61	1.61	1.20	
174	4400.00	2.05	347.52	4398.65	44.67	-18.98	-44.44	0.88	0.64	
175	4425.00	2.21	348.53	4423.64	45.58	-19.17	-45.34	0.66	0.64	
176	4450.00	2.06	352.75	4448.62	46.49	-19.32	-46.26	0.87	-0.60	
177	4475.00	2.21	352.17	4473.60	47.42	-19.45	-47.18	0.61	0.60	
178	4500.00	2.22	353.20	4498.58	48.38	-19.57	-48.14	0.16	0.04	
179	4525.00	2.32	356.00	4523.56	49.36	-19.66	-49.12	0.60	0.40	
180	4550.00	2.19	353.40	4548.54	50.34	-19.75	-50.10	0.66	-0.52	
181	4575.00	2.23	354.02	4573.53	51.30	-19.86	-51.06	0.19	0.16	
182	4600.00	2.29	353.86	4598.51	52.28	-19.96	-52.04	0.24	0.24	
183	4625.00	2.75	357.31	4623.48	53.38	-20.04	-53.13	1.94	1.84	
184	4650.00	3.35	355.68	4648.45	54.70	-20.13	-54.46	2.42	2.40	
185	4675.00	3.39	357.75	4673.40	56.17	-20.21	-55.92	0.51	0.16	
186	4700.00	3.57	356.22	4698.36	57.68	-20.29	-57.44	0.81	0.72	
187	4725.00	3.37	358.73	4723.31	59.20	-20.36	-58.95	1.00	-0.80	
188	4750.00	3.36	357.69	4748.27	60.66	-20.40	-60.41	0.25	-0.04	
189	4775.00	3.35	358.65	4773.23	62.12	-20.45	-61.87	0.23	-0.04	
190	4800.00	3.53	354.48	4798.18	63.62	-20.54	-63.37	1.23	0.72	
191	4825.00	3.45	359.13	4823.13	65.14	-20.63	-64.89	1.18	-0.32	
192	4850.00	3.38	359.13	4848.09	66.63	-20.65	-66.38	0.28	-0.28	
193	4875.00	3.33	359.87	4873.05	68.09	-20.66	-67.84	0.26	-0.20	
194	4900.00	3.23	359.14	4898.01	69.52	-20.67	-69.27	0.43	-0.40	
195	4925.00	3.76	357.61	4922.96	71.05	-20.72	-70.79	2.15	2.12	
196	4950.00	3.21	0.21	4947.91	72.56	-20.75	-72.31	2.29	-2.20	
197	4975.00	3.12	2.42	4972.87	73.94	-20.72	-73.69	0.61	-0.36	
198	5000.00	3.03	-1.90	4997.84	75.28	-20.67	-75.03	0.38	-0.36	
199	5025.00	3.00	3.95	5022.80	76.60	-20.60	-76.34	0.45	-0.12	
200	5050.00	2.98	2.34	5047.77	77.90	-20.53	-77.65	0.35	-0.08	
201	5075.00	3.05	1.70	5072.74	79.21	-20.48	-78.96	0.31	0.28	
202	5100.00	3.00	0.43	5097.70	80.53	-20.46	-80.28	0.33	-0.20	
203	5125.00	3.01	2.58	5122.67	81.84	-20.43	-81.59	0.45	0.04	
204	5150.00	2.88	357.16	5147.63	83.12	-20.43	-82.87	1.23	-0.52	
205	5175.00	3.43	348.19	5172.60	84.48	-20.61	-84.23	2.95	2.20	
206	5200.00	3.55	345.09	5197.55	85.96	-20.96	-85.71	0.89	0.48	
207	5225.00	3.71	347.77	5222.50	87.50	-21.33	-87.24	0.93	0.64	
208	5250.00	3.73	344.38	5247.45	89.08	-21.72	-88.81	0.88	0.08	
209	5275.00	3.67	344.53	5272.39	90.63	-22.16	-90.36	0.24	-0.24	
210	5300.00	3.66	346.87	5297.34	92.18	-22.55	-91.90	0.60	-0.04	
211	5325.00	3.83	342.20	5322.29	93.75	-22.99	-93.47	1.40	0.68	
212	5350.00	3.62	347.57	5347.24	95.32	-23.41	-95.03	1.63	-0.84	
213	5375.00	3.66	348.20	5372.19	96.87	-23.75	-96.58	0.23	0.16	

#	Measured Depth (Ft)	INC Deg	AZM Deg	TVD (Ft)	NS (Ft)	EW (Ft)	VS (Ft)	DLS %/100 Ft	Build Rate %/100 Ft	Comment
214	5400.00	3.51	349.00	5397.14	98.40	-24.05	-98.10	0.63	-0.60	
215	5425.00	3.54	350.14	5422.09	99.91	-24.33	-99.61	0.30	0.12	
216	5450.00	3.48	351.31	5447.04	101.42	-24.58	-101.12	0.37	-0.24	
217	5475.00	3.58	350.65	5472.00	102.94	-24.82	-102.64	0.43	0.40	
218	5500.00	3.51	351.17	5496.95	104.47	-25.07	-104.16	0.31	-0.28	
219	5525.00	3.38	351.84	5521.90	105.95	-25.29	-105.64	0.54	-0.52	
220	5550.00	3.33	347.90	5546.86	107.39	-25.54	-107.08	0.94	-0.20	
221	5575.00	3.46	350.92	5571.82	108.85	-25.82	-108.53	0.88	0.52	
222	5600.00	3.56	348.86	5596.77	110.36	-26.08	-110.03	0.64	0.40	
223	5625.00	3.36	351.86	5621.72	111.84	-26.34	-111.52	1.08	-0.80	
224	5650.00	3.35	350.84	5646.68	113.29	-26.56	-112.96	0.24	-0.04	
225	5675.00	3.37	351.24	5671.64	114.74	-26.79	-114.41	0.12	0.08	
226	5700.00	3.38	352.08	5696.59	116.19	-27.00	-115.86	0.20	0.04	
227	5725.00	3.26	353.30	5721.55	117.63	-27.18	-117.29	0.56	-0.48	
228	5750.00	3.25	352.56	5746.51	119.04	-27.36	-118.70	0.17	-0.04	
229	5775.00	3.20	351.86	5771.47	120.43	-27.55	-120.09	0.25	-0.20	
230	5800.00	3.13	350.62	5796.43	121.79	-27.76	-121.45	0.39	-0.28	
231	5825.00	2.99	352.57	5821.40	123.11	-27.96	-122.77	0.70	-0.56	
232	5850.00	3.01	350.26	5846.36	124.41	-28.15	-124.06	0.49	0.08	
233	5875.00	3.17	346.40	5871.33	125.73	-28.42	-125.38	1.05	0.64	
234	5900.00	3.07	335.29	5896.29	127.01	-28.87	-126.65	2.45	-0.40	
235	5925.00	3.16	333.41	5921.25	128.23	-29.46	-127.87	0.54	0.36	
236	5950.00	3.09	331.96	5946.22	129.44	-30.08	-129.07	0.42	-0.28	
237	5975.00	3.10	332.07	5971.18	130.63	-30.71	-130.25	0.05	0.04	
238	6000.00	3.10	329.97	5996.14	131.82	-31.37	-131.43	0.45	0.00	
239	6025.00	3.23	331.24	6021.11	133.02	-32.05	-132.62	0.59	0.52	
240	6050.00	3.05	329.63	6046.07	134.21	-32.72	-133.81	0.80	-0.72	
241	6075.00	3.01	329.18	6071.03	135.35	-33.39	-134.94	0.19	-0.16	
242	6100.00	3.10	326.53	6096.00	136.48	-34.10	-136.05	0.67	0.36	
243	6125.00	2.85	322.59	6120.96	137.53	-34.85	-137.10	1.29	-1.00	
244	6150.00	2.79	328.07	6145.93	138.54	-35.55	-138.10	1.10	-0.24	
245	6175.00	2.76	326.29	6170.90	139.56	-36.21	-139.11	0.36	-0.12	
246	6200.00	2.46	325.42	6195.88	140.50	-36.85	-140.05	1.21	-1.20	
247	6225.00	2.35	327.49	6220.86	141.38	-37.43	-140.92	0.56	-0.44	
248	6250.00	2.22	319.83	6245.84	142.18	-38.01	-141.71	1.33	-0.52	
249	6275.00	2.27	328.47	6270.82	142.97	-38.59	-142.50	1.37	0.20	
250	6300.00	2.23	321.19	6295.80	143.77	-39.15	-143.29	1.15	-0.16	
251	6325.00	2.47	331.70	6320.78	144.63	-39.71	-144.14	1.97	0.96	
252	6350.00	2.66	331.97	6345.75	145.61	-40.24	-145.12	0.76	0.76	
253	6375.00	2.94	332.75	6370.72	146.69	-40.80	-146.19	1.13	1.12	
254	6400.00	3.12	330.33	6395.69	147.85	-41.43	-147.35	0.88	0.72	
255	6425.00	3.55	338.03	6420.65	149.16	-42.06	-148.65	2.48	1.72	
256	6450.00	3.71	339.31	6445.60	150.64	-42.64	-150.11	0.72	0.64	
257	6475.00	3.75	340.19	6470.54	152.16	-43.20	-151.63	0.28	0.16	
258	6500.00	3.69	339.31	6495.49	153.69	-43.76	-153.15	0.33	-0.24	
259	6525.00	3.55	338.50	6520.44	155.16	-44.33	-154.61	0.60	-0.56	
260	6550.00	3.41	338.54	6545.39	156.57	-44.88	-156.02	0.56	-0.56	
261	6575.00	3.45	341.49	6570.35	157.98	-45.39	-157.42	0.72	0.16	
262	6600.00	3.34	337.57	6595.31	159.36	-45.91	-158.80	1.03	-0.44	
263	6625.00	3.23	335.51	6620.26	160.68	-46.48	-160.10	0.65	-0.44	
264	6650.00	3.09	332.95	6645.23	161.92	-47.08	-161.34	0.79	-0.56	
265	6675.00	2.86	335.23	6670.19	163.08	-47.65	-162.50	1.03	-0.92	
266	6700.00	2.79	336.29	6695.16	164.21	-48.15	-163.62	0.35	-0.28	
267	6725.00	3.08	334.72	6720.13	165.37	-48.68	-164.77	1.20	1.16	
268	6750.00	2.98	333.66	6745.09	166.56	-49.26	-165.96	0.46	-0.40	
269	6775.00	3.12	334.75	6770.06	167.76	-49.84	-167.15	0.61	0.56	

#	Measured Depth (Ft)	INC Deg	AZM Deg	TVD (Ft)	NS (Ft)	EW (Ft)	VS (Ft)	DLS °/100 Ft	Build Rate °/100 Ft	Comment
270	6800.00	2.88	330.52	6795.02	168.92	-50.44	-168.30	1.31	-0.96	
271	6825.00	2.73	328.85	6819.99	169.98	-51.05	-169.35	0.68	-0.60	
272	6850.00	2.75	328.75	6844.97	171.00	-51.67	-170.36	0.08	0.08	
273	6875.00	2.72	327.76	6869.94	172.01	-52.30	-171.37	0.22	-0.12	
274	6900.00	2.75	329.98	6894.91	173.04	-52.92	-172.39	0.44	0.12	
275	6925.00	2.69	334.50	6919.88	174.08	-53.47	-173.43	0.89	-0.24	
276	6950.00	2.55	330.03	6944.85	175.10	-54.00	-174.43	0.99	-0.56	
277	6975.00	2.27	334.38	6969.83	176.02	-54.49	-175.35	1.34	-1.12	
278	7000.00	1.99	334.48	6994.82	176.86	-54.89	-176.19	1.12	-1.12	
279	7025.00	1.91	336.32	7019.80	177.63	-55.25	-176.96	0.41	-0.32	
280	7050.00	1.69	341.76	7044.79	178.37	-55.53	-177.68	1.11	-0.88	
281	7075.00	1.64	344.71	7069.78	179.06	-55.74	-178.38	0.40	-0.20	
282	7100.00	1.70	346.86	7094.77	179.77	-55.92	-179.08	0.35	0.24	
283	7125.00	1.48	350.60	7119.76	180.45	-56.06	-179.76	0.97	-0.88	
284	7150.00	1.46	352.14	7144.75	181.08	-56.15	-180.39	0.18	-0.08	
285	7175.00	1.71	348.83	7169.74	181.76	-56.27	-181.07	1.06	1.00	
286	7193.00	1.77	342.76	7187.73	182.29	-56.40	-181.60	1.08	0.33	
287	7224.00	1.78	343.29	7218.72	183.21	-56.68	-182.51	0.06	0.03	
288	7314.00	2.07	315.01	7308.67	185.70	-58.23	-184.98	1.09	0.32	
289	7381.00	1.90	316.22	7375.63	187.36	-59.86	-186.62	0.26	-0.25	
290	7408.00	1.92	218.34	7402.62	187.32	-60.45	-186.58	10.67	0.07	
291	7438.00	4.51	201.22	7432.57	185.83	-61.19	-185.08	9.11	8.63	
292	7468.00	8.63	199.64	7462.37	182.61	-62.37	-181.85	13.75	13.73	
293	7499.00	13.29	197.00	7492.79	177.01	-64.20	-176.22	15.12	15.03	
294	7530.00	17.21	195.43	7522.69	169.18	-66.46	-168.36	12.71	12.65	
295	7558.00	19.30	193.54	7549.28	160.69	-68.64	-159.85	7.76	7.46	
296	7588.00	21.32	191.54	7577.42	150.52	-70.90	-149.66	7.12	6.73	
297	7618.00	22.88	188.44	7605.21	139.41	-72.84	-138.52	6.49	5.20	
298	7647.00	24.67	188.14	7631.75	127.84	-74.53	-126.93	6.19	6.17	
299	7677.00	25.87	186.74	7658.88	115.14	-76.18	-114.21	4.47	4.00	
300	7707.00	29.10	186.13	7685.49	101.38	-77.73	-100.44	10.81	10.77	
301	7736.00	32.29	186.75	7710.43	86.68	-79.39	-85.71	11.05	11.00	
302	7766.00	34.55	187.78	7735.46	70.29	-81.49	-69.30	7.77	7.53	
303	7796.00	37.00	188.09	7759.80	52.92	-83.91	-51.90	8.19	8.17	
304	7826.00	40.54	187.27	7783.19	34.30	-86.42	-33.26	11.92	11.80	
305	7856.00	42.38	187.32	7805.67	14.60	-88.94	-13.53	6.13	6.13	
306	7886.00	43.29	186.69	7827.67	-5.64	-91.42	6.74	3.35	3.03	
307	7915.00	46.03	186.19	7848.29	-25.89	-93.71	27.02	9.53	9.45	
308	7945.00	50.07	186.04	7868.34	-48.08	-96.08	49.23	13.47	13.47	
309	7975.00	53.74	184.90	7886.85	-71.57	-98.33	72.75	12.59	12.23	
310	8006.00	57.16	182.90	7904.43	-97.04	-100.05	98.24	12.24	11.03	
311	8036.00	61.52	182.37	7919.72	-122.81	-101.24	124.02	14.61	14.53	
312	8066.00	64.78	181.83	7933.27	-149.56	-102.22	150.78	10.98	10.87	
313	8095.00	67.57	182.37	7944.99	-176.07	-103.19	177.30	9.77	9.62	
314	8125.00	69.97	182.15	7955.85	-204.01	-104.29	205.25	8.03	8.00	
315	8155.00	72.40	180.99	7965.52	-232.39	-105.07	233.64	8.89	8.10	
316	8184.00	74.60	180.12	7973.76	-260.19	-105.34	261.44	8.11	7.59	
317	8214.00	77.57	180.28	7980.97	-289.31	-105.44	290.56	9.91	9.90	
318	8244.00	80.20	180.61	7986.76	-318.74	-105.67	319.99	8.83	8.77	
319	8274.00	82.24	180.20	7991.34	-348.39	-105.88	349.64	6.93	6.80	
320	8364.00	84.44	177.86	8001.77	-437.76	-104.36	438.98	3.56	2.44	
321	8455.00	86.04	177.94	8009.33	-528.38	-101.04	529.56	1.76	1.76	
322	8545.00	87.22	177.72	8014.62	-618.16	-97.63	619.29	1.33	1.31	
323	8634.00	87.76	177.42	8018.51	-706.99	-93.86	708.07	0.69	0.61	
324	8724.00	89.80	179.22	8020.43	-796.92	-91.23	797.96	3.02	2.27	
325	8813.00	91.23	179.41	8019.63	-885.91	-90.16	886.93	1.62	1.61	

#	Measured Depth (Ft)	INC Deg	AZM Deg	TVD (Ft)	NS (Ft)	EW (Ft)	VS (Ft)	DLS */100 Ft	Build Rate */100 Ft	Comment
326	8903.00	92.69	178.38	8016.55	-975.84	-88.43	976.83	1.98	1.62	
327	8992.00	91.18	175.94	8013.55	-1064.67	-84.02	1065.60	3.22	-1.70	
328	9082.00	90.60	177.05	8012.15	-1154.49	-78.52	1155.35	1.39	-0.64	
329	9171.00	90.04	177.08	8011.65	-1243.37	-73.96	1244.17	0.63	-0.63	
330	9261.00	89.42	176.58	8012.08	-1333.23	-68.99	1333.96	0.88	-0.69	
331	9351.00	88.80	177.48	8013.47	-1423.10	-64.32	1423.77	1.21	-0.69	
332	9440.00	87.29	178.33	8016.51	-1511.98	-61.07	1512.61	1.95	-1.70	
333	9530.00	87.37	180.70	8020.70	-1601.88	-60.31	1602.49	2.63	0.09	
334	9619.00	89.23	182.10	8023.34	-1690.80	-62.49	1691.43	2.62	2.09	
335	9708.00	90.82	182.01	8023.30	-1779.74	-65.68	1780.41	1.79	1.79	
336	9797.00	92.45	182.05	8020.76	-1868.65	-68.83	1869.34	1.83	1.83	
337	9887.00	90.60	180.79	8018.37	-1958.58	-71.06	1959.30	2.49	-2.06	
338	9977.00	91.78	180.34	8016.50	-2048.56	-71.94	2049.28	1.40	1.31	
339	10064.00	91.22	180.86	8014.22	-2135.52	-72.85	2136.24	0.88	-0.64	
340	10154.00	88.72	179.97	8014.27	-2225.51	-73.51	2226.24	2.95	-2.78	
341	10243.00	89.67	179.87	8015.52	-2314.50	-73.38	2315.22	1.07	1.07	
342	10332.00	91.08	179.44	8014.94	-2403.50	-72.85	2404.20	1.66	1.58	
343	10422.00	89.90	181.34	8014.17	-2493.48	-73.46	2494.19	2.49	-1.31	
344	10511.00	89.59	180.62	8014.56	-2582.47	-74.98	2583.19	0.88	-0.35	
345	10600.00	91.13	180.17	8014.00	-2671.46	-75.59	2672.18	1.80	1.73	
346	10690.00	89.39	179.88	8013.60	-2761.46	-75.63	2762.17	1.96	-1.93	
347	10779.00	90.79	179.80	8013.46	-2850.46	-75.39	2851.16	1.58	1.57	
348	10869.00	92.31	179.43	8011.02	-2940.42	-74.78	2941.11	1.74	1.69	
349	10958.00	89.81	179.95	8009.38	-3029.39	-74.30	3030.07	2.87	-2.81	
350	11048.00	88.61	180.26	8010.62	-3119.38	-74.46	3120.05	1.38	-1.33	
351	11137.00	89.45	179.56	8012.12	-3208.37	-74.32	3209.03	1.23	0.94	
352	11226.00	87.48	180.87	8014.51	-3297.33	-74.66	3297.99	2.66	-2.21	
353	11316.00	87.79	180.28	8018.22	-3387.25	-75.56	3387.91	0.74	0.34	
354	11405.00	89.17	179.62	8020.58	-3476.22	-75.48	3476.87	1.72	1.55	
355	11495.00	89.78	180.26	8021.41	-3566.21	-75.39	3566.86	0.98	0.68	
356	11582.00	90.15	179.96	8021.46	-3653.21	-75.56	3653.86	0.55	0.43	
357	11623.00	90.64	179.38	8021.18	-3694.21	-75.32	3694.85	1.85	1.20	
358	11712.00	89.92	180.92	8020.74	-3783.20	-75.55	3783.84	1.91	-0.81	
359	11802.00	89.52	180.70	8021.18	-3873.19	-76.82	3873.84	0.51	-0.44	
360	11892.00	89.47	180.95	8021.98	-3963.18	-78.12	3963.83	0.28	-0.06	
361	11982.00	89.55	181.26	8022.75	-4053.16	-79.86	4053.83	0.36	0.09	
362	12071.00	89.72	181.20	8023.31	-4142.14	-81.77	4142.82	0.20	0.19	
363	12160.00	89.80	181.44	8023.69	-4231.11	-83.82	4231.82	0.28	0.09	
364	12250.00	89.92	182.07	8023.91	-4321.07	-86.57	4321.80	0.71	0.13	
365	12339.00	90.25	182.86	8023.77	-4409.99	-90.40	4410.76	0.96	0.37	
366	12429.00	90.17	181.93	8023.44	-4499.91	-94.16	4500.71	1.04	-0.09	
367	12518.00	90.00	181.37	8023.31	-4588.87	-96.72	4589.70	0.66	-0.19	
368	12607.00	90.00	181.09	8023.31	-4677.85	-98.63	4678.70	0.31	0.00	
369	12697.00	90.28	181.30	8023.09	-4767.83	-100.51	4768.69	0.39	0.31	
370	12787.00	90.62	179.88	8022.38	-4857.82	-101.44	4858.69	1.62	0.38	
371	12876.00	90.90	179.15	8021.20	-4946.81	-100.69	4947.66	0.88	0.31	
372	12965.00	90.95	179.83	8019.77	-5035.79	-99.89	5036.63	0.77	0.06	
373	13054.00	91.37	180.35	8017.97	-5124.77	-100.03	5125.61	0.75	0.47	
374	13143.00	91.65	180.65	8015.62	-5213.74	-100.81	5214.57	0.46	0.31	
375	13233.00	89.75	179.90	8014.52	-5303.73	-101.24	5304.56	2.27	-2.11	
376	13323.00	89.97	179.63	8014.74	-5393.72	-100.87	5394.55	0.39	0.24	
377	13412.00	89.89	179.94	8014.85	-5482.72	-100.54	5483.54	0.36	-0.09	
378	13502.00	90.06	179.95	8014.89	-5572.72	-100.45	5573.53	0.19	0.19	
379	13591.00	90.03	180.05	8014.82	-5661.72	-100.45	5662.52	0.12	-0.03	
380	13680.00	90.56	180.01	8014.36	-5750.72	-100.50	5751.52	0.60	0.60	
381	13770.00	90.92	180.26	8013.20	-5840.71	-100.71	5841.50	0.49	0.40	

#	Measured Depth (Ft)	INC Deg	AZM Deg	TVD (Ft)	NS (Ft)	EW (Ft)	VS (Ft)	DLS °/100 Ft	Build Rate °/100 Ft	Comment
382	13859.00	90.53	180.52	8012.07	-5929.70	-101.32	5930.49	0.53	-0.44	
383	13949.00	88.96	180.25	8012.47	-6019.70	-101.92	6020.49	1.77	-1.74	
384	14038.00	89.05	180.11	8014.02	-6108.68	-102.20	6109.47	0.19	0.10	
385	14128.00	89.08	180.32	8015.49	-6198.67	-102.54	6199.46	0.24	0.03	
386	14217.00	89.55	180.38	8016.55	-6287.66	-103.08	6288.45	0.53	0.53	
387	14306.00	89.66	180.63	8017.16	-6376.66	-103.87	6377.45	0.31	0.12	
388	14396.00	90.08	180.95	8017.37	-6466.65	-105.11	6467.45	0.59	0.47	
389	14485.00	90.25	181.36	8017.11	-6555.63	-106.90	6556.44	0.50	0.19	
390	14574.00	89.89	180.41	8017.00	-6644.62	-108.28	6645.44	1.14	-0.40	
391	14664.00	90.11	180.23	8017.00	-6734.62	-108.78	6735.44	0.32	0.24	
392	14753.00	90.11	180.63	8016.83	-6823.61	-109.45	6824.44	0.45	0.00	
393	14843.00	90.62	180.86	8016.26	-6913.60	-110.62	6914.44	0.62	0.57	
394	14932.00	90.84	181.59	8015.12	-7002.58	-112.52	7003.42	0.86	0.25	
395	15022.00	91.46	182.24	8013.32	-7092.51	-115.53	7093.38	1.00	0.69	
396	15111.00	90.20	182.14	8012.03	-7181.43	-118.93	7182.34	1.42	-1.42	
397	15200.00	90.56	182.26	8011.44	-7270.36	-122.34	7271.31	0.43	0.40	
398	15290.00	90.73	182.56	8010.43	-7360.28	-126.13	7361.26	0.38	0.19	
399	15380.00	89.10	181.92	8010.56	-7450.21	-129.64	7451.23	1.95	-1.81	
400	15469.00	88.15	180.51	8012.70	-7539.16	-131.53	7540.19	1.91	-1.07	
401	15559.00	87.59	178.71	8016.04	-7629.09	-130.92	7630.11	2.09	-0.62	
402	15648.00	87.59	178.99	8019.78	-7717.99	-129.13	7718.99	0.31	0.00	
403	15738.00	88.49	179.01	8022.86	-7807.92	-127.56	7808.89	1.00	1.00	
404	15827.00	91.06	179.51	8023.21	-7896.91	-126.42	7897.86	2.94	2.89	
405	15917.00	91.54	179.44	8021.17	-7986.88	-125.59	7987.81	0.54	0.53	
406	16006.00	90.62	179.46	8019.49	-8075.86	-124.74	8076.78	1.03	-1.03	
407	16095.00	91.18	179.58	8018.09	-8164.85	-123.99	8165.75	0.64	0.63	
408	16185.00	90.00	179.52	8017.17	-8254.84	-123.28	8255.72	1.31	-1.31	
409	16274.00	89.83	179.22	8017.30	-8343.83	-122.31	8344.70	0.39	-0.19	
410	16364.00	90.22	179.61	8017.26	-8433.83	-121.39	8434.68	0.61	0.43	
411	16454.00	90.56	179.78	8016.65	-8523.82	-120.91	8524.66	0.42	0.38	
412	16543.00	91.26	180.04	8015.23	-8612.81	-120.77	8613.64	0.84	0.79	
413	16633.00	92.35	179.77	8012.40	-8702.76	-120.62	8703.59	1.25	1.21	
414	16721.00	90.48	178.90	8010.23	-8790.73	-119.60	8791.53	2.34	-2.12	
415	16810.00	90.50	179.30	8009.46	-8879.71	-118.20	8880.49	0.45	0.02	
416	16900.00	89.52	179.51	8009.45	-8969.71	-117.27	8970.47	1.11	-1.09	
417	16989.00	88.85	179.72	8010.71	-9058.69	-116.67	9059.44	0.79	-0.75	
418	17078.00	88.91	180.22	8012.45	-9147.68	-116.62	9148.42	0.57	0.07	
419	17168.00	89.27	180.27	8013.88	-9237.67	-117.01	9238.40	0.40	0.40	
420	17257.00	90.25	181.22	8014.26	-9326.65	-118.16	9327.40	1.53	1.10	
421	17346.00	89.50	180.30	8014.45	-9415.65	-119.34	9416.40	1.33	-0.84	
422	17436.00	89.66	180.65	8015.11	-9505.64	-120.09	9506.40	0.43	0.18	
423	17526.00	89.94	181.05	8015.42	-9595.63	-121.42	9596.40	0.54	0.31	
424	17615.00	90.28	181.59	8015.25	-9684.60	-123.47	9685.39	0.72	0.38	
425	17704.00	90.73	181.98	8014.47	-9773.56	-126.25	9774.37	0.67	0.51	
426	17794.00	90.36	181.39	8013.61	-9863.51	-128.89	9864.35	0.77	-0.41	
427	17883.00	90.67	181.39	8012.81	-9952.48	-131.05	9953.34	0.35	0.35	
428	17973.00	91.15	182.06	8011.38	-10042.43	-133.76	10043.31	0.92	0.53	
429	18062.00	91.48	182.45	8009.34	-10131.34	-137.26	10132.26	0.57	0.37	
430	18086.00	91.51	182.40	8008.72	-10155.31	-138.28	10156.24	0.24	0.13	
431	18148.00	91.51	182.40	8007.08	-10217.23	-140.87	10218.19	0.00	0.00	PTB@TD