

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

RECEIVED
FEB 14 2020

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

ENMRD-OCDARTESIA

☒ AMENDED REPORT
As Drilled

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-45967		² Pool Code 30215		³ Pool Name Hay Hollow; Bone Spring	
⁴ Property Code 308074		⁵ Property Name MYOX 6 STATE COM			⁶ Well Number 510H
⁷ GRID NO. 229137		⁸ Operator Name COG OPERATING, LLC			⁹ Elevation 3080'

¹⁰ Surface Location

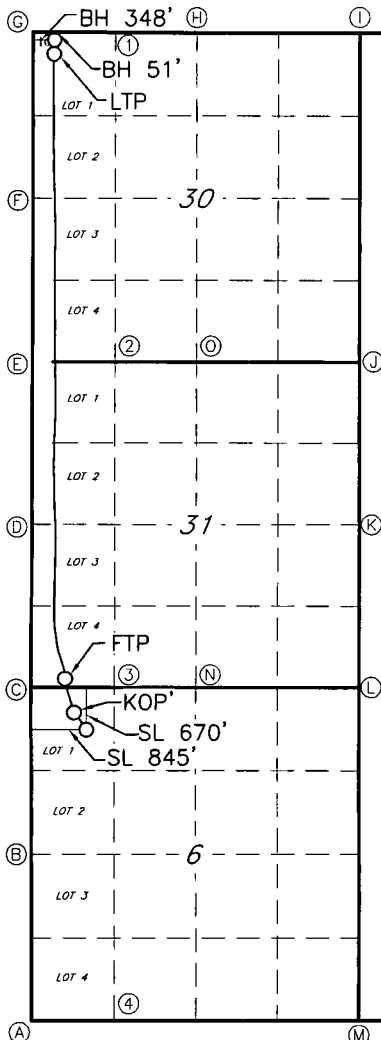
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet From the	East/West line	County
1	6	26S	28E		670	NORTH	845	WEST	EDDY

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
1	30	25S	28E		51	NORTH	348	WEST	EDDY

¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
322.08			

No allowable will be assigned to this completion until all interest have been consolidated or a non-standard unit has been approved by the division.



GEODETTIC DATA
NAD 83 GRID - NM EAST

SURFACE LOCATION (SL)
N: 391839.3 - E: 603537.4
LAT: 32.0770867° N
LONG: 104.1325127° W
LAT: 32°04'37.5124" N
LONG: 104°07'57.0459" W

KICK OFF POINT (KOP)
398'-FNL/648'-FWL (SEC.6)
N: 392110.8 - E: 603339.6
LAT: 32.0778343° N
LONG: 104.1331498° W
LAT: 32°04'40.2033" N
LONG: 104°07'59.3393" W
MD=7,732.00/TVD=7721.86

FIRST TAKE POINT (FTP)
138'-FSL/506'-FWL (SEC.31)
N: 392645.6 - E: 603196.6
LAT: 32.0793051° N
LONG: 104.1336091° W
LAT: 32°04'45.4983" N
LONG: 104°08'00.9926" W
MD=8,580.00/TVD=8298.34

LAST TAKE POINT (LTP)
287'-FSL/340'-FWL (SEC.30)
N: 402844.2 - E: 602988.1
LAT: 32.1073415° N
LONG: 104.1342208° W
LAT: 32°06'26.4296" N
LONG: 104°08'03.1948" W
MD=18,805.00/TVD=8263.15

BOTTOM HOLE
N: 403080.9 - E: 602993.5
LAT: 32.1079922° N
LONG: 104.1342018° W
LAT: 32°06'28.7719" N
LONG: 104°08'03.1264" W
MD=19,042.00/TVD=8273.5

CORNER DATA
NAD 83 GRID - NM EAST

A: FOUND 2 3/4" IRON PIPE
N 387187.1 - E 602707.2

B: FOUND BRASS CAP "1940"
N 389846.0 - E 602699.0

C: FOUND BRASS CAP "1940"
N 392505.8 - E 602690.5

D: FOUND BRASS CAP "1940"
N 395164.6 - E 602682.1

E: FOUND BRASS CAP "1940"
N 397822.7 - E 602672.6

F: FOUND BRASS CAP "1940"
N 400468.2 - E 602664.3

G: CALCULATED CORNER
N 403132.3 - E 602645.7

H: FOUND BRASS CAP "1940"
N 403125.4 - E 605277.9

I: FOUND BRASS CAP "1940"
N 403046.2 - E 608036.0

J: FOUND BRASS CAP "1940"
N 397715.1 - E 608074.9

K: FOUND BRASS CAP "1940"
N 395116.5 - E 608050.9

L: FOUND BRASS CAP "1940"
N 392514.2 - E 608024.8

M: CALCULATED CORNER
N 387235.7 - E 608011.7

N: FOUND BRASS CAP "1940"
N 392516.4 - E 605361.5

O: FOUND BRASS CAP "1940"
N 397768.3 - E 605379.3

CALCULATED POINTS
1: N 403128.9 - E 603968.4
2: N 397795.4 - E 604031.2
3: N 392511.1 - E 604026.3
4: N 387199.5 - E 604052.8

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.

Amanda Avery 2/11/2020
Signature Date

Amanda Avery
Printed Name

aaavery@concho.com
E-mail Address

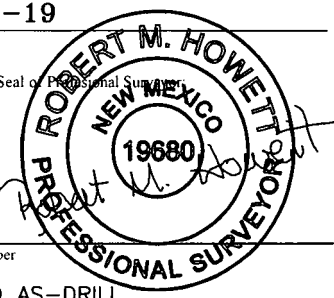
18 SURVEYOR CERTIFICATION

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.

03-12-19

Date of Survey

Signature and Seal of Professional Surveyor



19680

Certificate Number

2/4/2020 AS-DRILL

Job No.:

LS19030360AD

Feb 4-8-2020

Intent ☐ As Drilled ☒

API # 30-015-45967			
Operator Name: COG Operating LLC		Property Name: Myox 6 State Com	Well Number 510H

Kick Off Point (KOP)

UL 1	Section 6	Township 26s	Range 28E	Lot	Feet 670	From N/S North	Feet 845	From E/W West	County Eddy
Latitude 32.0778343					Longitude 104.1331498			NAD 83	

First Take Point (FTP)

UL 4	Section 31	Township 26S	Range 28E	Lot	Feet 138 ✓	From N/S South	Feet 506	From E/W West	County Eddy
Latitude 32.0793051					Longitude 104.1336091			NAD 83	

Last Take Point (LTP)

UL 1	Section 30	Township 25S	Range 28E	Lot	Feet 287 ✓	From N/S South	Feet 340	From E/W West	County Eddy
Latitude 32.1073415					Longitude 104.1342208			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

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FEB 14 2020

EMERALD OGDARTESIA

COG

SURVEY REPORT

MYOX 6 STATE COM #510H

ENSIGN #155

8/18/2019

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

JAKE ELGER

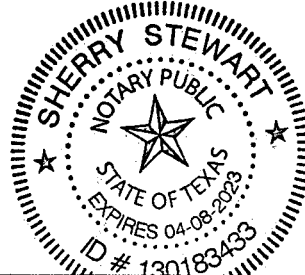
Notarized this date 11th of SEPTEMBER 2019

Sherry Stewart

Notary Signature

County of Midland

State of Texas



The Ultimate Partner In Wellbore Placement

SURVEY REPORT

MYOX 6 STATE COM #510H

DEFINITIVE KEEPER GYRO SURVEY

CUSTOMER
PROJECT
FIELD

COG
Myox 6 State Com #510H
Myox 6 State Com #510H

SDI JOB NO.
SDI DISTRICT
SDI KIT/UNIT

OP.020508
Midland

SITE INFORMATION

Site Name Myox 6 State Com #510H
Lat/Long 32.0782894° N, 104.1283605° W
Northing 392,266.1 ft
Easting 563,486.5 ft

Section
Township
Range

MAP INFORMATION

North Reference Grid North
Grid Correction -0.11 deg
System US State Plane 1927
Datum North American Datum 1927 (Clarke 1866)
Map Zone New Mexico East: 3001

**WELL INFORMATION**

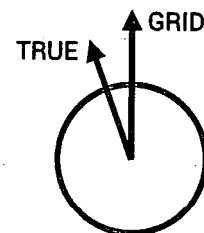
Lat/Long 32.0769641° N, 104.1320221° W
Northing 391,781.9 ft
Easting 562,353.3 ft
UWI 30-015-45967

DEPTH AND ELEVATION REFERENCE

Ground Level 3079 ft above Mean Sea Level
Reference Datum KB
Reference Height 24 ft above G.L.
Reference Elevation 3103 ft

VERTICAL SECTION REFERENCE

+N/-S 0 ft
+E/-W 0 ft
Proposal Direction 357.14°
Calculation Method Minimum Curvature

**LOCAL GRAVITY REFERENCE INFORMATION**

Local Gravity 998.519 mG [computed]
True to Grid subtract 0.11°

WELL NOTES

Keeper Gyro Survey to 7,511'

OPERATORS

C. Booher

SDI Operator Name (Printed)

SIGNATURE

DATE

MD	INC	AZIM	TVD	VS	IN/S	FE/AF	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	0.79	52.91	100.00	0.39	0.42	0.55	0.79	0.69	52.91
125.00	0.86	53.92	124.99	0.59	0.63	0.84	0.28	1.05	53.09
150.00	1.05	58.44	149.99	0.80	0.86	1.19	0.83	1.47	54.03
175.00	1.21	61.44	174.99	1.03	1.11	1.61	0.65	1.96	55.54
200.00	1.33	66.65	199.98	1.24	1.35	2.11	0.67	2.51	57.43
225.00	1.39	70.98	224.97	1.43	1.56	2.67	0.49	3.09	59.62
250.00	1.40	68.20	249.97	1.61	1.78	3.24	0.27	3.69	61.26
275.00	1.44	70.50	274.96	1.80	1.99	3.82	0.28	4.31	62.42
300.00	1.43	71.49	299.95	1.98	2.20	4.41	0.10	4.93	63.51
325.00	1.39	72.88	324.94	2.13	2.39	5.00	0.24	5.54	64.47
350.00	1.35	74.96	349.94	2.27	2.55	5.57	0.25	6.13	65.38
375.00	1.33	74.20	374.93	2.40	2.71	6.13	0.09	6.70	66.18
400.00	1.40	72.95	399.92	2.54	2.88	6.70	0.29	7.29	66.78
425.00	1.45	71.47	424.91	2.70	3.07	7.29	0.24	7.91	67.21
450.00	1.56	70.50	449.90	2.88	3.28	7.92	0.48	8.57	67.49
475.00	1.65	69.71	474.89	3.09	3.52	8.58	0.37	9.27	67.69
500.00	1.71	67.65	499.88	3.32	3.78	9.26	0.32	10.00	67.76
525.00	1.84	67.19	524.87	3.58	4.08	9.97	0.56	10.78	67.74
550.00	1.96	49.79	549.86	3.98	4.51	10.67	2.34	11.58	67.07
575.00	2.21	33.82	574.84	4.62	5.19	11.26	2.52	12.40	65.26
600.00	2.26	28.65	599.82	5.43	6.02	11.77	0.83	13.22	62.90
625.00	2.28	22.62	624.80	6.30	6.91	12.20	0.96	14.02	60.45
650.00	2.29	17.16	649.78	7.21	7.85	12.53	0.87	14.79	57.94
675.00	2.34	10.01	674.76	8.18	8.83	12.77	1.17	15.53	55.34
700.00	2.18	358.86	699.74	9.16	9.81	12.85	1.87	16.17	52.64
725.00	2.13	341.11	724.73	10.08	10.72	12.69	2.67	16.61	49.80
750.00	2.24	322.55	749.71	10.93	11.55	12.24	2.85	16.83	46.66
775.00	2.44	306.11	774.69	11.66	12.25	11.51	2.80	16.81	43.22
800.00	2.53	300.97	799.66	12.31	12.85	10.61	0.96	16.67	39.54
825.00	2.58	299.72	824.64	12.92	13.41	9.65	0.29	16.52	35.72
850.00	2.63	300.87	849.61	13.54	13.99	8.67	0.28	16.46	31.78

MD	INC	AZIM	TVD	VS	N/S	E/W	DLS	CLOSURE	CLOSURE
ft	deg	deg	ft	ft	ft	ft	%/100ft	DIST	DIR
875.00	2.60	300.82	874.59	14.17	14.57	7.69	0.11	16.48	27.81
900.00	2.58	301.04	899.56	14.80	15.15	6.72	0.11	16.58	23.91
925.00	2.57	300.56	924.54	15.42	15.73	5.75	0.09	16.75	20.09
950.00	2.56	301.04	949.51	16.04	16.30	4.79	0.10	16.99	16.38
975.00	2.56	299.83	974.49	16.65	16.87	3.83	0.22	17.30	12.79
1000.00	2.59	299.09	999.46	17.26	17.42	2.85	0.18	17.65	9.30
1025.00	2.54	301.11	1024.44	17.86	17.98	1.88	0.41	18.08	5.98
1050.00	2.50	300.12	1049.41	18.47	18.54	0.94	0.24	18.56	2.89
1075.00	2.48	299.56	1074.39	19.06	19.08	-0.01	0.14	19.08	359.98
1100.00	2.51	298.98	1099.37	19.64	19.61	-0.95	0.16	19.64	357.21
1125.00	2.67	300.24	1124.34	20.24	20.17	-1.94	0.70	20.26	354.51
1150.00	2.61	298.86	1149.31	20.86	20.74	-2.94	0.35	20.95	351.93
1175.00	2.60	299.67	1174.29	21.47	21.30	-3.93	0.16	21.66	349.54
1200.00	2.47	299.69	1199.26	22.06	21.84	-4.89	0.50	22.39	347.37
1225.00	2.60	298.82	1224.24	22.65	22.39	-5.86	0.55	23.14	345.33
1250.00	2.68	302.06	1249.21	23.28	22.97	-6.85	0.68	23.97	343.39
1275.00	2.57	306.00	1274.19	23.97	23.61	-7.80	0.85	24.87	341.71
1300.00	2.25	311.20	1299.16	24.67	24.26	-8.63	1.56	25.75	340.42
1325.00	2.27	315.56	1324.14	25.38	24.94	-9.34	0.69	26.63	339.46
1350.00	2.11	320.77	1349.13	26.12	25.65	-9.98	1.02	27.52	338.74
1375.00	2.07	319.13	1374.11	26.84	26.35	-10.57	0.28	28.39	338.15
1400.00	2.07	319.92	1399.09	27.56	27.03	-11.15	0.11	29.24	337.58
1425.00	2.02	319.80	1424.08	28.27	27.72	-11.73	0.21	30.10	337.06
1450.00	2.14	320.04	1449.06	28.99	28.41	-12.31	0.47	30.96	336.57
1475.00	2.10	320.13	1474.04	29.73	29.12	-12.90	0.14	31.85	336.10
1500.00	2.02	319.73	1499.03	30.44	29.81	-13.48	0.32	32.71	335.66
1525.00	2.01	320.43	1524.01	31.14	30.48	-14.05	0.11	33.56	335.26
1550.00	1.85	321.18	1549.00	31.82	31.13	-14.58	0.62	34.38	334.91
1575.00	1.68	323.44	1573.99	32.45	31.74	-15.05	0.76	35.13	334.63
1600.00	1.63	325.29	1598.98	33.06	32.33	-15.47	0.28	35.84	334.43
1625.00	1.43	326.40	1623.97	33.63	32.88	-15.85	0.83	36.50	334.27
1650.00	1.37	328.74	1648.96	34.16	33.40	-16.17	0.34	37.11	334.16

MD	INC	AZIM	TVD	VS	N/S	HE/W	DLS	CLOSURE DIST	CLOSURE DIR
ft	deg	deg	ft	ft	ft	ft	%/100ft	ft	deg
1675.00	1.28	332.52	1673.95	34.68	33.90	-16.46	0.49	37.68	334.10
1700.00	1.26	334.44	1698.95	35.19	34.40	-16.71	0.20	38.24	334.09
1725.00	1.32	335.39	1723.94	35.71	34.90	-16.94	0.26	38.80	334.11
1750.00	1.32	334.73	1748.93	36.24	35.42	-17.19	0.06	39.37	334.12
1775.00	1.54	338.17	1773.93	36.82	36.00	-17.43	0.96	40.00	334.16
1800.00	1.73	336.99	1798.91	37.49	36.66	-17.71	0.79	40.71	334.22
1825.00	1.93	339.75	1823.90	38.25	37.40	-18.00	0.84	41.50	334.30
1850.00	2.24	339.09	1848.89	39.11	38.25	-18.32	1.24	42.41	334.41
1875.00	2.47	340.34	1873.86	40.09	39.21	-18.67	0.98	43.43	334.53
1900.00	2.55	342.23	1898.84	41.15	40.25	-19.03	0.44	44.52	334.70
1925.00	2.59	344.45	1923.82	42.24	41.32	-19.35	0.44	45.63	334.91
1950.00	2.56	347.13	1948.79	43.34	42.41	-19.62	0.50	46.73	335.17
1975.00	2.67	352.71	1973.76	44.47	43.53	-19.82	1.10	47.83	335.52
2000.00	2.69	357.83	1998.74	45.63	44.70	-19.92	0.96	48.93	335.98
2025.00	2.68	3.25	2023.71	46.80	45.87	-19.91	1.02	50.00	336.54
2050.00	2.75	8.81	2048.68	47.97	47.04	-19.78	1.09	51.03	337.19
2075.00	2.81	13.24	2073.65	49.15	48.23	-19.55	0.90	52.04	337.94
2100.00	2.83	16.87	2098.62	50.32	49.42	-19.23	0.72	53.03	338.74
2125.00	2.83	18.40	2123.59	51.48	50.60	-18.85	0.30	54.00	339.56
2150.00	2.57	18.16	2148.56	52.57	51.72	-18.48	1.06	54.92	340.33
2175.00	2.16	13.79	2173.54	53.55	52.71	-18.20	1.81	55.76	340.95
2200.00	1.76	4.25	2198.53	54.38	53.55	-18.06	2.04	56.51	341.36
2225.00	1.70	343.45	2223.52	55.12	54.28	-18.13	2.51	57.23	341.53
2250.00	1.85	322.18	2248.50	55.81	54.96	-18.49	2.69	57.99	341.41
2275.00	2.20	313.29	2273.49	56.49	55.61	-19.09	1.88	58.79	341.06
2300.00	2.37	311.01	2298.47	57.20	56.28	-19.83	0.76	59.67	340.59
2325.00	2.50	311.12	2323.45	57.93	56.98	-20.63	0.53	60.59	340.10
2350.00	2.53	313.24	2348.42	58.71	57.71	-21.44	0.39	61.57	339.62
2375.00	2.58	316.14	2373.40	59.53	58.50	-22.23	0.56	62.58	339.19
2400.00	2.61	316.75	2398.37	60.39	59.32	-23.01	0.15	63.63	338.80
2425.00	2.63	320.78	2423.35	61.29	60.18	-23.77	0.74	64.70	338.45
2450.00	2.73	323.54	2448.32	62.25	61.10	-24.48	0.67	65.82	338.16

MD	INC	AZIM	TVD	VS	N/S	E/W	DLS	CLOSURE DIST	CLOSURE DIR
ft	deg	deg	ft	ft	ft	ft	%/100ft	ft	deg
2475.00	2.65	324.18	2473.29	63.23	62.05	-25.17	0.35	66.96	337.92
2500.00	2.72	323.91	2498.26	64.21	63.00	-25.86	0.27	68.10	337.68
2525.00	2.70	324.67	2523.24	65.20	63.96	-26.55	0.15	69.25	337.45
2550.00	2.65	324.66	2548.21	66.19	64.91	-27.23	0.21	70.39	337.24

2575.00	2.75	324.90	2573.18	67.18	65.87	-27.91	0.40	71.54	337.04
2600.00	2.83	325.06	2598.15	68.21	66.87	-28.61	0.31	72.73	336.84
2625.00	2.68	324.82	2623.12	69.23	67.85	-29.30	0.60	73.91	336.65
2650.00	2.68	324.03	2648.09	70.21	68.80	-29.98	0.15	75.05	336.46
2675.00	2.73	324.39	2673.07	71.20	69.76	-30.67	0.22	76.20	336.27

2700.00	2.63	325.44	2698.04	72.19	70.71	-31.34	0.43	77.35	336.10
2725.00	2.75	325.50	2723.01	73.19	71.68	-32.00	0.49	78.50	335.94
2750.00	2.69	325.35	2747.98	74.20	72.66	-32.68	0.26	79.67	335.79
2775.00	2.81	323.67	2772.95	75.21	73.64	-33.37	0.57	80.85	335.62
2800.00	2.82	325.47	2797.92	76.24	74.64	-34.09	0.36	82.05	335.45

2825.00	2.76	324.98	2822.89	77.28	75.64	-34.78	0.24	83.25	335.31
2850.00	2.81	325.27	2847.87	78.31	76.63	-35.47	0.18	84.45	335.16
2875.00	2.73	324.62	2872.84	79.33	77.62	-36.17	0.32	85.63	335.02
2900.00	2.83	322.92	2897.81	80.34	78.60	-36.88	0.51	86.82	334.86
2925.00	2.77	324.30	2922.78	81.36	79.58	-37.61	0.35	88.02	334.71

2950.00	2.87	322.71	2947.75	82.39	80.57	-38.34	0.51	89.23	334.55
2975.00	2.82	322.09	2972.72	83.41	81.56	-39.10	0.26	90.44	334.39
3000.00	2.83	322.53	2997.69	84.42	82.53	-39.85	0.11	91.65	334.23
3025.00	2.82	321.37	3022.65	85.43	83.50	-40.61	0.23	92.86	334.06
3050.00	2.90	319.11	3047.62	86.42	84.46	-41.41	0.54	94.07	333.88

3075.00	2.83	318.39	3072.59	87.40	85.40	-42.23	0.30	95.27	333.69
3100.00	2.84	318.16	3097.56	88.36	86.32	-43.06	0.06	96.46	333.49
3125.00	2.77	319.41	3122.53	89.32	87.24	-43.86	0.37	97.65	333.31
3150.00	2.85	317.73	3147.50	90.28	88.16	-44.67	0.46	98.83	333.13
3175.00	2.83	317.35	3172.47	91.23	89.07	-45.51	0.11	100.02	332.94

3200.00	2.90	316.43	3197.44	92.18	89.98	-46.36	0.35	101.22	332.74
3225.00	2.83	313.97	3222.41	93.11	90.87	-47.24	0.58	102.41	332.53
3250.00	2.77	314.35	3247.38	94.01	91.72	-48.11	0.25	103.57	332.32

MD	INC	AZIM	TVD	VS	INVS	HEAV	DLS	CLOSURE DIST	CLOSURE DIR
ft	deg	deg	ft	ft	ft	ft	%/100ft	ft	deg
3275.00	2.65	312.69	3272.35	94.86	92.53	-48.97	0.58	104.69	332.11
3300.00	2.74	311.93	3297.32	95.69	93.32	-49.84	0.42	105.80	331.90
3325.00	2.67	312.62	3322.30	96.53	94.12	-50.71	0.32	106.91	331.68
3350.00	2.65	312.49	3347.27	97.36	94.90	-51.57	0.11	108.01	331.48
3375.00	2.75	312.21	3372.24	98.19	95.69	-52.44	0.41	109.12	331.28
3400.00	2.75	311.55	3397.21	99.04	96.50	-53.33	0.13	110.25	331.07
3425.00	2.79	311.89	3422.18	99.88	97.30	-54.23	0.15	111.39	330.87
3450.00	2.73	311.72	3447.15	100.73	98.10	-55.13	0.22	112.53	330.67
3475.00	2.77	311.20	3472.13	101.57	98.90	-56.03	0.18	113.66	330.47
3500.00	2.84	311.05	3497.10	102.42	99.70	-56.95	0.29	114.82	330.26
3525.00	2.70	311.53	3522.07	103.26	100.50	-57.86	0.56	115.96	330.07
3550.00	2.79	311.21	3547.04	104.10	101.29	-58.76	0.36	117.10	329.88
3575.00	2.80	312.05	3572.01	104.95	102.10	-59.67	0.17	118.26	329.70
3600.00	2.81	310.71	3596.98	105.80	102.91	-60.59	0.26	119.42	329.51
3625.00	2.84	310.56	3621.95	106.65	103.71	-61.52	0.14	120.59	329.32
3650.00	2.88	312.25	3646.92	107.52	104.54	-62.46	0.37	121.77	329.14
3675.00	2.79	311.91	3671.89	108.40	105.36	-63.38	0.38	122.96	328.97
3700.00	2.87	310.83	3696.86	109.26	106.18	-64.30	0.39	124.13	328.80
3725.00	2.83	311.28	3721.82	110.12	107.00	-65.24	0.17	125.31	328.63
3750.00	2.82	310.15	3746.79	110.97	107.80	-66.17	0.22	126.49	328.46
3775.00	2.65	312.59	3771.77	111.80	108.59	-67.07	0.84	127.63	328.30
3800.00	1.97	320.32	3796.74	112.55	109.31	-67.77	2.97	128.61	328.20
3825.00	1.77	323.70	3821.73	113.22	109.95	-68.27	0.92	129.42	328.16
3850.00	1.58	324.61	3846.72	113.83	110.54	-68.70	0.76	130.15	328.14
3875.00	1.65	322.25	3871.71	114.42	111.11	-69.12	0.38	130.85	328.12
3900.00	1.53	326.81	3896.70	115.00	111.67	-69.52	0.70	131.54	328.10
3925.00	1.57	325.95	3921.69	115.58	112.23	-69.89	0.21	132.22	328.09
3950.00	1.42	322.84	3946.68	116.13	112.76	-70.27	0.69	132.87	328.07
3975.00	1.38	323.66	3971.68	116.64	113.25	-70.64	0.19	133.48	328.05
4000.00	1.32	322.01	3996.67	117.12	113.72	-70.99	0.27	134.06	328.02
4025.00	1.35	322.64	4021.66	117.60	114.18	-71.35	0.12	134.64	328.00
4050.00	1.32	323.11	4046.66	118.08	114.65	-71.70	0.12	135.22	327.98

MD	INC	AZIM	TVD	VS	HN/S	FEAW	DLS	CLOSURE DIST	CLOSURE DIR
ft	deg	deg	ft	ft	ft	ft	%/100ft	ft	deg
4075.00	1.30	323.19	4071.65	118.56	115.10	-72.04	0.06	135.79	327.96
4100.00	1.37	322.27	4096.64	119.04	115.57	-72.40	0.29	136.37	327.94
4125.00	1.36	323.75	4121.64	119.53	116.04	-72.75	0.15	136.97	327.91
4150.00	1.36	324.53	4146.63	120.03	116.52	-73.10	0.08	137.56	327.90
4175.00	1.38	323.57	4171.62	120.53	117.01	-73.45	0.12	138.15	327.88
4200.00	1.36	321.65	4196.61	121.02	117.48	-73.81	0.20	138.75	327.86
4225.00	1.37	319.64	4221.61	121.50	117.94	-74.19	0.20	139.34	327.83
4250.00	1.49	318.45	4246.60	121.99	118.41	-74.60	0.50	139.95	327.79
4275.00	1.37	318.90	4271.59	122.48	118.88	-75.01	0.51	140.57	327.75
4300.00	1.32	314.18	4296.58	122.92	119.31	-75.42	0.47	141.15	327.70
4325.00	1.39	312.73	4321.58	123.35	119.71	-75.85	0.28	141.72	327.64
4350.00	1.23	307.98	4346.57	123.74	120.08	-76.28	0.77	142.26	327.58
4375.00	1.37	307.46	4371.56	124.11	120.43	-76.73	0.59	142.80	327.50
4400.00	1.47	308.56	4396.56	124.52	120.81	-77.22	0.40	143.38	327.42
4425.00	2.57	311.96	4421.54	125.12	121.39	-77.88	4.43	144.23	327.32
4450.00	1.40	306.83	4446.53	125.71	121.95	-78.55	4.74	145.05	327.21
4475.00	1.38	307.98	4471.52	126.10	122.31	-79.03	0.13	145.62	327.13
4500.00	1.44	304.25	4496.51	126.49	122.68	-79.52	0.43	146.20	327.05
4525.00	1.56	297.60	4521.50	126.85	123.01	-80.08	0.84	146.78	326.93
4550.00	1.51	294.66	4546.49	127.18	123.30	-80.68	0.37	147.36	326.80
4575.00	1.49	291.38	4571.48	127.46	123.56	-81.29	0.35	147.90	326.66
4600.00	1.58	291.25	4596.48	127.74	123.80	-81.91	0.36	148.45	326.51
4625.00	1.60	294.34	4621.47	128.04	124.07	-82.55	0.35	149.03	326.36
4650.00	1.55	298.76	4646.46	128.38	124.38	-83.17	0.53	149.62	326.23
4675.00	1.61	304.15	4671.45	128.76	124.74	-83.76	0.65	150.25	326.12
4700.00	1.59	304.04	4696.44	129.19	125.13	-84.34	0.09	150.90	326.02
4725.00	1.61	305.51	4721.43	129.61	125.53	-84.91	0.18	151.55	325.93
4750.00	1.58	305.07	4746.42	130.04	125.93	-85.48	0.13	152.20	325.83
4775.00	1.69	303.69	4771.41	130.47	126.34	-86.07	0.46	152.87	325.74
4800.00	1.62	303.95	4796.40	130.91	126.74	-86.67	0.29	153.54	325.63
4825.00	1.43	300.01	4821.39	131.29	127.09	-87.23	0.86	154.15	325.54
4850.00	1.51	297.55	4846.38	131.62	127.40	-87.79	0.39	154.72	325.43

MD	INC	AZIM	TVD	VS	N/S	HEAV	DLS	CLOSURE DIST	CLOSURE DIR
ft	deg	deg	ft	ft	ft	ft	%/100ft	ft	deg
4875.00	1.50	300.77	4871.37	131.97	127.72	-88.36	0.34	155.31	325.32
4900.00	1.54	299.88	4896.36	132.33	128.05	-88.94	0.21	155.91	325.22
4925.00	1.74	316.79	4921.35	132.80	128.50	-89.49	2.08	156.59	325.15
4950.00	1.93	323.40	4946.34	133.44	129.11	-90.00	1.13	157.38	325.12
4975.00	1.87	323.16	4971.33	134.13	129.78	-90.49	0.25	158.21	325.11
5000.00	1.86	322.23	4996.31	134.80	130.42	-90.99	0.12	159.02	325.10
5025.00	1.96	324.08	5021.30	135.49	131.09	-91.49	0.44	159.86	325.09
5050.00	1.93	322.96	5046.28	136.20	131.77	-91.99	0.18	160.71	325.08
5075.00	1.93	322.85	5071.27	136.90	132.44	-92.50	0.03	161.55	325.07
5100.00	1.77	320.60	5096.26	137.55	133.08	-93.00	0.68	162.35	325.05
5125.00	1.70	321.70	5121.25	138.17	133.67	-93.47	0.33	163.11	325.04
5150.00	1.60	322.93	5146.24	138.76	134.24	-93.91	0.41	163.83	325.02
5175.00	1.45	320.50	5171.23	139.30	134.76	-94.33	0.66	164.50	325.01
5200.00	1.44	324.54	5196.22	139.82	135.26	-94.71	0.41	165.13	325.00
5225.00	1.47	326.11	5221.21	140.36	135.78	-95.07	0.19	165.76	325.00
5250.00	1.47	326.57	5246.20	140.91	136.32	-95.43	0.05	166.40	325.01
5275.00	1.40	326.13	5271.19	141.45	136.84	-95.77	0.27	167.02	325.01
5300.00	1.28	324.97	5296.19	141.94	137.32	-96.10	0.47	167.61	325.01
5325.00	1.31	326.03	5321.18	142.43	137.79	-96.42	0.14	168.18	325.02
5350.00	1.45	324.89	5346.17	142.94	138.28	-96.77	0.58	168.78	325.02
5375.00	1.42	328.07	5371.17	143.48	138.81	-97.11	0.35	169.40	325.02
5400.00	2.16	337.85	5396.15	144.19	139.50	-97.45	3.22	170.17	325.06
5425.00	2.53	342.11	5421.13	145.17	140.47	-97.80	1.61	171.16	325.15
5450.00	2.69	341.18	5446.11	146.27	141.55	-98.16	0.67	172.25	325.26
5475.00	3.14	340.60	5471.07	147.49	142.75	-98.58	1.79	173.48	325.37
5500.00	3.55	334.91	5496.03	148.86	144.09	-99.13	2.11	174.90	325.47
5525.00	3.63	333.17	5520.98	150.30	145.50	-99.82	0.54	176.45	325.55
5550.00	3.87	334.84	5545.93	151.80	146.97	-100.53	1.07	178.06	325.63
5575.00	3.81	333.62	5570.87	153.35	148.48	-101.26	0.40	179.72	325.71
5600.00	3.82	333.04	5595.82	154.87	149.97	-102.01	0.16	181.37	325.78
5625.00	3.65	330.68	5620.76	156.34	151.40	-102.77	0.93	182.99	325.83
5650.00	3.62	330.45	5645.71	157.76	152.78	-103.55	0.13	184.57	325.87

MD	INC	AZIM	TVD	VS	IN/S	HEAW	DLS	CLOSURE DIST	CLOSURE DIR
ft	deg	deg	ft	ft	ft	ft	%/100ft	ft	deg
5675.00	3.36	328.66	5670.67	159.11	154.09	-104.32	1.13	186.09	325.90
5700.00	3.32	328.67	5695.63	160.39	155.34	-105.08	0.16	187.54	325.92
5725.00	3.27	327.38	5720.58	161.64	156.56	-105.84	0.35	188.98	325.94
5750.00	3.05	325.63	5745.55	162.83	157.71	-106.60	0.96	190.35	325.94
5775.00	2.92	324.88	5770.51	163.93	158.78	-107.34	0.54	191.66	325.94
5800.00	2.90	324.76	5795.48	165.01	159.81	-108.07	0.11	192.93	325.93
5825.00	2.97	324.13	5820.45	166.08	160.85	-108.82	0.31	194.20	325.92
5850.00	3.05	322.94	5845.41	167.18	161.91	-109.60	0.43	195.51	325.91
5875.00	3.97	322.08	5870.37	168.43	163.12	-110.53	3.67	197.04	325.88
5900.00	4.13	321.01	5895.30	169.87	164.50	-111.63	0.71	198.80	325.84
5925.00	4.32	320.01	5920.24	171.35	165.93	-112.80	0.83	200.64	325.79
5950.00	4.67	319.18	5945.16	172.90	167.42	-114.07	1.40	202.58	325.73
5975.00	4.97	317.22	5970.07	174.53	168.98	-115.47	1.38	204.67	325.65
6000.00	5.08	316.58	5994.97	176.20	170.58	-116.97	0.48	206.83	325.56
6025.00	4.99	315.97	6019.88	177.86	172.17	-118.48	0.41	209.00	325.46
6050.00	4.93	315.52	6044.78	179.49	173.72	-119.99	0.28	211.13	325.37
6075.00	4.72	316.56	6069.70	181.07	175.23	-121.45	0.93	213.20	325.27
6100.00	4.15	321.65	6094.62	182.59	176.68	-122.72	2.78	215.12	325.22
6125.00	3.59	328.30	6119.56	184.01	178.06	-123.69	2.85	216.81	325.21
6150.00	3.43	331.17	6144.52	185.37	179.38	-124.46	0.95	218.33	325.24
6175.00	3.21	330.67	6169.47	186.67	180.65	-125.17	0.90	219.77	325.28
6200.00	2.98	330.63	6194.44	187.87	181.82	-125.83	0.91	221.12	325.31
6225.00	3.11	329.64	6219.40	189.06	182.97	-126.49	0.56	222.44	325.34
6250.00	3.81	325.13	6244.36	190.36	184.24	-127.31	3.01	223.95	325.36
6275.00	4.22	323.86	6269.30	191.83	185.66	-128.33	1.67	225.70	325.35
6300.00	4.14	321.20	6294.23	193.33	187.11	-129.43	0.84	227.51	325.33
6325.00	4.46	320.26	6319.16	194.84	188.56	-130.62	1.33	229.38	325.29
6350.00	5.12	319.61	6344.07	196.51	190.16	-131.97	2.65	231.46	325.24
6375.00	5.26	318.46	6368.97	198.29	191.87	-133.45	0.69	233.71	325.18
6400.00	5.06	316.13	6393.87	200.01	193.52	-134.97	1.17	235.94	325.11
6425.00	4.66	314.81	6418.78	201.60	195.03	-136.46	1.65	238.03	325.02
6450.00	4.40	312.26	6443.70	203.03	196.39	-137.89	1.32	239.96	324.93

MD	INC	AZIM	TVD	VS	N/S	HEAW	DLS	CLOSURE DIST	CLOSURE DIR
ft	deg	deg	ft	ft	ft	ft	%100ft	ft	deg
6475.00	4.14	309.95	6468.63	204.32	197.62	-139.29	1.27	241.77	324.82
6500.00	4.17	309.07	6493.56	205.54	198.77	-140.69	0.29	243.52	324.71
6525.00	4.28	311.71	6518.50	206.80	199.96	-142.09	0.90	245.31	324.60
6550.00	4.92	320.80	6543.42	208.32	201.41	-143.47	3.86	247.29	324.54
6575.00	4.79	321.91	6568.33	210.04	203.07	-144.79	0.62	249.40	324.51
6600.00	4.02	316.73	6593.25	211.56	204.53	-146.03	3.48	251.31	324.47
6625.00	2.98	307.25	6618.21	212.64	205.56	-147.15	4.73	252.80	324.40
6650.00	2.23	291.43	6643.18	213.26	206.13	-148.12	4.15	253.83	324.30
6675.00	2.03	284.29	6668.16	213.59	206.42	-149.00	1.31	254.58	324.18
6700.00	2.19	287.71	6693.15	213.89	206.67	-149.89	0.81	255.30	324.05
6725.00	2.96	310.19	6718.12	214.50	207.23	-150.84	5.03	256.32	323.95
6750.00	3.29	316.72	6743.08	215.49	208.17	-151.82	1.94	257.66	323.90
6775.00	3.57	317.63	6768.04	216.64	209.27	-152.84	1.13	259.14	323.86
6800.00	3.90	320.30	6792.99	217.92	210.50	-153.91	1.47	260.76	323.83
6825.00	4.97	328.39	6817.91	219.55	212.07	-155.02	4.95	262.69	323.83
6850.00	5.56	330.05	6842.81	221.57	214.05	-156.19	2.45	264.97	323.88
6875.00	5.40	327.37	6867.69	223.67	216.09	-157.43	1.20	267.35	323.93
6900.00	4.99	324.02	6892.59	225.60	217.96	-158.70	2.04	269.61	323.94
6925.00	4.66	320.74	6917.50	227.33	219.62	-159.98	1.72	271.71	323.93
6950.00	4.23	316.88	6942.42	228.85	221.08	-161.26	2.10	273.64	323.89
6975.00	4.14	314.35	6967.36	230.22	222.39	-162.53	0.83	275.45	323.84
7000.00	4.09	318.40	6992.29	231.57	223.68	-163.77	1.18	277.22	323.79
7025.00	4.19	325.34	7017.23	233.05	225.10	-164.88	2.05	279.02	323.78
7050.00	5.23	328.10	7042.14	234.82	226.82	-166.00	4.26	281.07	323.80
7075.00	4.48	328.26	7067.05	236.67	228.62	-167.12	3.02	283.19	323.83
7100.00	5.16	330.24	7091.97	238.53	230.42	-168.19	2.78	285.28	323.87
7125.00	5.80	330.22	7116.85	240.66	232.50	-169.37	2.59	287.65	323.93
7150.00	5.95	329.01	7141.72	242.93	234.70	-170.67	0.75	290.19	323.98
7175.00	5.71	329.54	7166.59	245.17	236.88	-171.96	0.98	292.72	324.02
7200.00	5.23	328.05	7191.48	247.27	238.92	-173.20	1.98	295.09	324.06
7225.00	4.81	325.71	7216.38	249.16	240.75	-174.39	1.87	297.28	324.08
7250.00	4.58	323.73	7241.30	250.88	242.43	-175.57	1.14	299.32	324.09

MD	INC	AZIM	TMD	VS	N/S	E/W	DLS	CLOSURE	CLOSURE
ft	deg	deg	ft	ft	ft	ft	%/100ft	DIST	DIR
7275.00	4.65	324.96	7266.22	252.57	244.06	-176.74	0.49	301.33	324.09
7300.00	4.94	328.47	7291.13	254.37	245.81	-177.89	1.65	303.42	324.11
7325.00	5.05	330.04	7316.03	256.30	247.68	-179.00	0.71	305.59	324.14
7350.00	4.79	330.49	7340.94	258.21	249.54	-180.06	1.07	307.72	324.19
7375.00	4.30	328.09	7365.86	259.96	251.24	-181.07	2.08	309.69	324.22
7400.00	3.87	322.87	7390.80	261.48	252.71	-182.08	2.29	311.47	324.23
7425.00	3.36	316.22	7415.75	262.73	253.91	-183.09	2.63	313.04	324.20
7450.00	3.39	315.96	7440.71	263.84	254.97	-184.11	0.14	314.50	324.17
7475.00	4.37	322.38	7465.65	265.18	256.26	-185.21	4.27	316.18	324.14
7500.00	5.57	327.63	7490.55	267.02	258.04	-186.44	5.12	318.34	324.15
7511.00	5.69	328.01	7501.50	267.96	258.95	-187.01	1.15	319.42	324.16