

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



Operator Notice Regarding
C-104 Denial and Request for Information

OCD is providing notice to operators that it will deny your C-104 – *Request for Allowable and Authorization to Transport* if it fails to provide complete and accurate information, including:

Test Allowable New Well and Recompleted Well

Amend C-104

30-015-46373

- ☐ 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

** PBDT can show
in "NW" C-104 and Perfs.
TD? Rig Release? dates
missing on attached
C-103*

- ☐ 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

The sale or transport of product without an approved C-104 violates the Oil and Gas Act and the implementing rules, including 19.15.7.15 and 19.15.16.19 NMAC. If OCD determines that your C-104 is incomplete or inaccurate, it will give you notice to resubmit your C-104 within 30 days. Failure to comply with this notice may result in enforcement action.

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

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) 478-3470 Fax:(505) 478-3462	State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505	Form C-103 August 1, 2011 Permit 268803 WELL API NUMBER 30-015-45373 5. Indicate Type of Lease P 6. State Oil & Gas Lease No. 7. Lease Name or Unit Agreement Name MYOX 21 STATE COM
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SUNDRY NOTICES AND REPORTS ON WELLS
 (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: G	8. Well Number 035H
2. Name of Operator COG OPERATING LLC	9. OGRID Number 229137
3. Address of Operator 600 W Illinois Ave, Midland, TX 79701	10. Pool name or Wildcat
4. Well Location Unit Letter <u>N</u> : <u>220</u> feet from the <u>S</u> line and feet <u>1739</u> from the <u>W</u> line Section <u>21</u> Township <u>25S</u> Range <u>28E</u> NMPM County <u>Eddy</u>	
11. Elevation (Show whether DR, KB, BT, GR, etc.) 2977 GR	

Pit or Below-grade Tank Application ☐ or Closure ☐
 Pit Type _____ Depth to Groundwater _____ Distance from nearest fresh water well _____ Distance from nearest surface water _____
 Pit Liner Thickness: _____ mil Below-Grade Tank: Volume _____ bbls; Construction Material _____

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data			
NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK ☐	PLUG AND ABANDON ☐	ALTER CASING ☐	
TEMPORARILY ABANDON ☐	CHANGE OF PLANS ☐	PLUG AND ABANDON ☐	
PULL OR ALTER CASING ☐	MULTIPLE COMPL ☐		
Other: _____		Other: <u>Drilling/Cement</u> ☒	

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work.) SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.
 3/12/19 Spud well. TD 17 1/2" surface hole @ 614'. Set 13 3/8" 54.5# J-55 BTC csg @ 614'. Cmt w/435 sx lead. Tailed in w/235 sx. Circ 333 sx to surface. WOC 4 hrs. Suspend operations. 5/17/19 Resume operations. Test BOP. Test csg to 1500# for 30 minutes. 5/8/19 TD 12 1/4" intermediate hole @ 8715'. Set 9 5/8" 40# HCL-80 BTC csg @ 8715'. DV Tool @ 2351'. Cmt 1st Stage w/865 sx lead. Tailed in w/210 sx. Circ 102 sx to surface. Cmt 2nd stage w/685 sx lead. Tailed in w/200 sx. Circ 347 sx to surface WOC 8 hrs. Test BOP. Test csg to 1500# for 30 minutes. 6/11/19 TD 8 3/4" lateral @ 19712' (K3/12/2019 Spudded well.

Rig Release? date

Date	String	Fluid Type	Hole Size	Csg Size	Weight lb/ft	Grade	Est TOC	Dpth Set	Sacks	Yield	Class	1" Dpth	Pres Held	Pres Drop	Open Hole
03/13/19	Surf	FreshWater	17.5	13.375	54.5	J55	24	614	670	1.75	C		1500	0	N
05/26/19	Int1	FreshWater	12.25	9.625	40	HCL	2353	8815	1960	2.75	H		1500	0	N
06/13/19	Prod	FreshWater	8.75	5.5	20	HCP	24	19686	4260	1.22	H		*??		N

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOC guidelines ☐ a general permit ☐ or an (attached) alternative OCD-approved plan ☐.

SIGNATURE	<u>Electronically Signed</u>	TITLE	Production Accounting Director	DATE	6/18/2019
Type or print name	<u>Diane Kuykendall</u>	E-mail address	<u>dkuykendall@concho.com</u>	Telephone No.	<u>432-685-4372</u>

For State Use Only:
 APPROVED BY: Raymond Podany TITLE Geologist DATE 6/27/2019 2:07:13 PM

Amend C-103

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) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

Comments

Permit 268803

DRILLING COMMENTS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Permit Number: 268803
	Permit Type: Drilling

Comments

Created By	Comment	Comment Date
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There are no Comments for this Permit

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

RECEIVED
DEC 04 2019
DISTRICT IV-ARTESIA OCS
Form C-104
Revised August 1, 2011
Submit one copy to appropriate District Office

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address COG Operating LLC 2208 W. Main Street Artesia, NM 88210		² OGRID Number 229137
		³ Reason for Filing Code/ Effective Date RT
⁴ API Number 30-015-45373	⁵ Pool Name Purple Sage; Wolfcamp	⁶ Pool Code 98220
⁷ Property Code 38521	⁸ Property Name Myox 21 State Com	⁹ Well Number 35H

II. ¹⁰ Surface Location^{ns}

Ul or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South Line	Feet from the	East/West line	County
N	21	25S	28E		220	South	1739	West	Eddy

¹¹ Bottom Hole Location

Ul or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South Line	Feet from the	East/West line	County
C	16	25S	28E		200	North	2603	West	Eddy
¹² Lse Code S	¹³ Producing Method Code F	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
	ACC	O
298751	Energy Transfer 2001 Bryan Street, Ste 3700 Dallas, TX 75201	G
278421	Holly Refining and Marketing PO Box 159 Artesia, NM 88210	O

IV. Well Completion Data

²¹ Spud Date 3/12/19	²² Ready Date Proposed?	²³ TD 19,712' ✓	²⁴ PBTB 19,599' ?	²⁵ Perforations 9,775-19,595' ?	²⁶ DHC, MC
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
17 1/2"	13 3/8"	614'	670		
12 1/4"	9 7/8"	8,815'	1960		
8 3/4"	5.5"	19,686'	4260		
	2 7/8"	8,901'			

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

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:

Amanda Avery

Printed name:

Amanda Avery

Title:

Regulatory Analyst

E-mail Address:

aavery@concho.com

Date:

11/27/19

Phone:

575-748-6962

OIL CONSERVATION DIVISION

Approved by:

Title:

Approval

DENIED
See Attached Cover Sheet

RECEIVED

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
Santa Fe, New Mexico 87505

DEC 04 2019

Form C-102

Revised August 1, 2011

Submit one copy to appropriate District Office

☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-45373		Pool Code 98220	Pool Name Purple Sage; Wolfcamp
Property Code 38521	Property Name MYOX 21 STATE COM		Well Number 35H
OGRID No. 229137	Operator Name COG OPERATING, LLC		Elevation 2977.3'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	21	25-S	28-E		220	SOUTH	1739	WEST	EDDY

Bottom Hole Location If Different From Surface

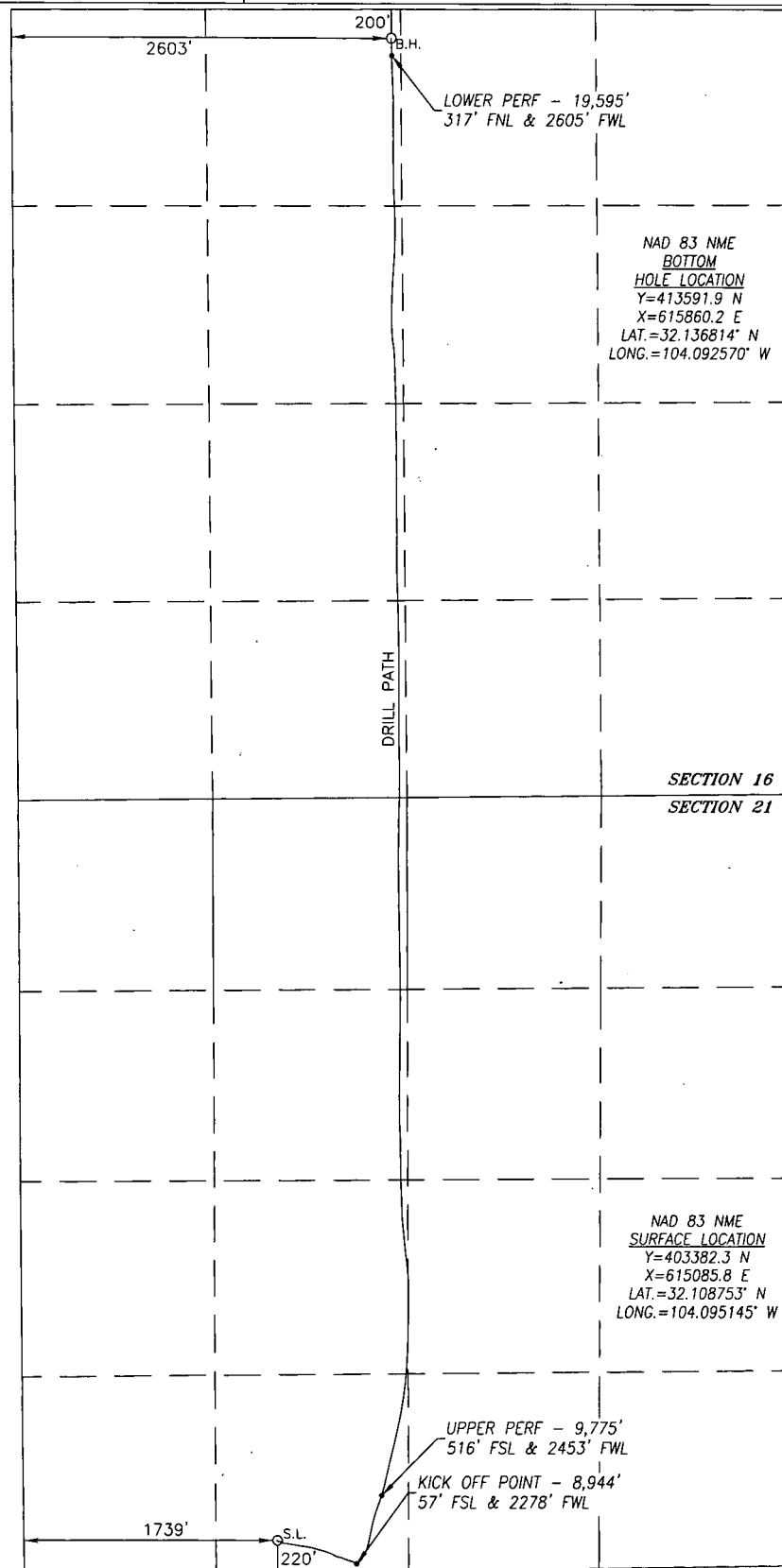
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	16	25-S	28-E		200	NORTH	2603	WEST	EDDY

Dedicated Acres 640	Joint or Infill	Consolidation Code	Order No.
------------------------	-----------------	--------------------	-----------

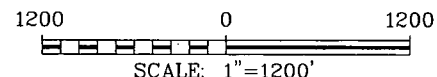
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

SEE PAGE 2

Property Code 38521	Property Name MYOX 21 STATE COM	Well Number 35H
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 2977.3'



SURFACE INFO AND BOREPATH SHOWN HEREON IS BASED ON DIRECTIONAL SURVEY REPORT PROVIDED BY COG OPERATING, LLC FOR THE MYOX 21 STATE COM #35H SUPPLIED TO HARCROW SURVEYING, LLC ON NOVEMBER 14, 2019



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 11/27/19
Signature Date

Amanda Avery
Printed Name

aaavery@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. 8, 2019/JUNE 24, 2019
Date of Survey/Date of Geographic Survey

Signature & Seal of Professional Surveyor



Chad Harcrow 11/19/19
Certificate No. CHAD HARCROW 17777

RECEIVED

DEC 04 2019

DISTRICT/ARTESIAO.C.D.

Intent ☐ As Drilled ☒ XAPI #
30-015-45373Operator Name:
COG OPERATING, LLCProperty Name:
MYOX 21 STATE COMWell Number
35H

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
N	21	25S	28E		57	SOUTH	2278	WEST	EDDY
Latitude					Longitude				NAD
32.108316					-104.093402				83

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
N	21	25S	28E		516	SOUTH	2453	WEST	EDDY
Latitude					Longitude				NAD
32.109579					-104.092846				83

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
C	16	25S	28E		317	NORTH	2605	WEST	EDDY
Latitude					Longitude				NAD
32.136492					-104.092563				83

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

☒ Yes

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



COG

DISTRICT/ART

SURVEY REPORT

MYOX 21 STATE COM #35H

ENSIGN 155

5/28/2019

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

JAKE ELGER

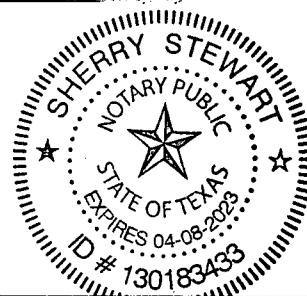
Notarized this date 07 of JUNE 2019

Sherry Stewart

Notary Signature

County of Midland

State of Texas

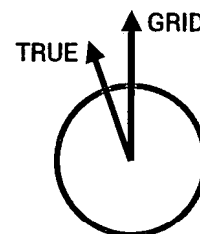


The Ultimate Partner In Wellbore Placement

SURVEY REPORT

MYOX 21 STATE COM #35H

COMPUTED KEEPER GYRO WIRELINE SURVEY

CUSTOMER
PROJECT
FIELDCOG
Myox 21 State Com #35H
Myox 21 State Com #35HSDI JOB NO.
SDI DISTRICT
SDI KIT/UNITOP.018908
Midland**SITE INFORMATION**Site Name Myox 21 State Com #35H
Lat/Long 32.108698° N, 104.095142° W
Northing 403,362.3 ft
Easting 615,087 ftSection
Township
Range**MAP INFORMATION**North Reference Grid North
Grid Correction -0.13 deg
System US State Plane 1983
Datum North American Datum 1983 (GRS 1980)
Map Zone New Mexico East: 3001**WELL INFORMATION**Lat/Long 32.108698° N, 104.095142° W
Northing 403,362.3 ft
Easting 615,087 ft
UWI 30-015-45373**DEPTH AND ELEVATION REFERENCE**Ground Level 2976.9 ft above Mean Sea
Level
Reference Datum RKB
Reference Height 24 ft above G.L.
Reference Elevation 3000.9 ft**VERTICAL SECTION REFERENCE**+N/-S 0 ft
+E/-W 0 ft
Proposal Direction 4.49°
Calculation Method Minimum Curvature**LOCAL GRAVITY REFERENCE INFORMATION**Local Gravity 998.532 mG [computed]
True to Grid subtract 0.13°**WELL NOTES****OPERATORS**

Nathan Yerby

SDI Operator Name (Printed)

SIGNATURE

DATE

MD	INC	AZIM	TVD	VS	N/S	H/W	DLS	CLOSURE	CLOSURE
ft	deg	deg	ft	ft	ft	ft	%/100ft	DIST	DIR
0.00	0.00	0.00	0.00	0.00	0.00	0.00	Invalid	0.00	0.00
100.00	0.30	324.87	100.00	0.20	0.21	-0.15	0.30	0.26	324.87
125.00	0.28	343.93	125.00	0.31	0.33	-0.20	0.39	0.38	327.86
150.00	0.20	287.20	150.00	0.38	0.40	-0.26	0.96	0.48	326.44
175.00	0.26	319.91	175.00	0.43	0.45	-0.34	0.57	0.57	322.96
200.00	0.30	276.10	200.00	0.47	0.50	-0.44	0.84	0.67	318.65
225.00	0.45	279.86	225.00	0.48	0.53	-0.61	0.63	0.80	311.06
250.00	0.48	279.54	250.00	0.50	0.56	-0.81	0.10	0.98	304.86
275.00	0.49	274.38	275.00	0.51	0.59	-1.02	0.18	1.17	300.04
300.00	0.49	279.42	300.00	0.52	0.61	-1.23	0.17	1.37	296.55
325.00	0.52	273.84	324.99	0.52	0.64	-1.45	0.24	1.58	293.81
350.00	0.56	268.76	349.99	0.51	0.64	-1.68	0.23	1.80	290.93
375.00	0.46	272.15	374.99	0.49	0.64	-1.90	0.40	2.01	288.70
400.00	0.45	279.40	399.99	0.50	0.66	-2.10	0.23	2.21	287.54
425.00	0.42	279.19	424.99	0.51	0.70	-2.29	0.13	2.39	286.88
450.00	0.46	294.31	449.99	0.56	0.75	-2.48	0.50	2.59	286.90
475.00	0.50	279.28	474.99	0.60	0.81	-2.68	0.53	2.80	286.87
500.00	0.50	274.69	499.99	0.61	0.84	-2.89	0.16	3.01	286.16
525.00	0.50	270.50	524.99	0.60	0.85	-3.11	0.15	3.22	285.25
550.00	0.47	272.68	549.99	0.59	0.85	-3.32	0.17	3.43	284.41
575.00	0.44	282.52	574.99	0.60	0.88	-3.52	0.33	3.63	284.03
600.00	0.42	282.48	599.98	0.63	0.92	-3.70	0.07	3.81	283.96
625.00	0.45	278.19	624.98	0.65	0.95	-3.89	0.17	4.00	283.78
650.00	0.42	272.99	649.98	0.65	0.97	-4.07	0.19	4.19	283.42
675.00	0.46	258.07	674.98	0.62	0.96	-4.26	0.47	4.37	282.64
700.00	0.43	242.50	699.98	0.54	0.89	-4.44	0.49	4.53	281.36
725.00	0.40	225.27	724.98	0.43	0.79	-4.59	0.51	4.66	279.73
750.00	0.41	216.70	749.98	0.28	0.65	-4.70	0.24	4.75	277.91
775.00	0.39	208.12	774.98	0.13	0.51	-4.80	0.24	4.82	276.03
800.00	0.37	205.59	799.98	0.02	0.36	-4.87	0.11	4.89	274.20
825.00	0.27	202.16	824.98	-0.16	0.23	-4.93	0.40	4.94	272.66
850.00	0.35	209.67	849.98	-0.28	0.11	-4.99	0.34	4.99	271.23

MD	INC	AZIM	TVD	VS	N/S	TEAW	DLS	CLOSURE DIST	CLOSURE DIR
ft	deg	deg	ft	ft	ft	ft	%100ft	ft	deg
875.00	0.30	198.65	874.98	-0.42	-0.02	-5.05	0.31	5.05	269.76
900.00	0.33	194.24	899.98	-0.55	-0.15	-5.09	0.14	5.09	268.28
925.00	0.47	163.98	924.98	-0.72	-0.32	-5.08	1.01	5.09	266.37
950.00	0.81	145.10	949.98	-0.95	-0.57	-4.95	1.58	4.98	263.46
975.00	1.03	140.37	974.97	-1.25	-0.89	-4.70	0.93	4.79	259.33
1000.00	1.14	137.77	999.97	-1.58	-1.24	-4.39	0.49	4.56	254.18
1025.00	1.18	133.02	1024.96	-1.92	-1.60	-4.03	0.41	4.34	248.31
1050.00	1.12	137.39	1049.96	-2.24	-1.96	-3.68	0.42	4.17	241.96
1075.00	1.12	134.33	1074.95	-2.57	-2.31	-3.34	0.24	4.06	235.34
1100.00	1.14	136.82	1099.95	-2.89	-2.66	-3.00	0.22	4.01	228.38
1125.00	1.11	135.73	1124.94	-3.22	-3.02	-2.66	0.15	4.02	221.35
1150.00	1.10	132.15	1149.94	-3.52	-3.35	-2.31	0.28	4.07	214.56
1175.00	1.16	137.02	1174.93	-3.84	-3.70	-1.96	0.45	4.19	207.93
1200.00	1.10	137.80	1199.93	-4.17	-4.06	-1.63	0.25	4.37	201.85
1225.00	1.09	113.89	1224.92	-4.42	-4.33	-1.25	1.81	4.51	196.10
1250.00	1.14	109.59	1249.92	-4.56	-4.51	-0.80	0.40	4.58	190.05
1275.00	1.16	104.46	1274.91	-4.67	-4.66	-0.32	0.42	4.67	183.94
1300.00	1.19	102.27	1299.91	-4.75	-4.78	-0.18	0.21	4.78	177.87
1325.00	1.22	99.24	1324.90	-4.81	-4.87	0.69	0.29	4.92	171.90
1350.00	1.13	111.77	1349.90	-4.90	-5.01	1.19	1.09	5.15	166.67
1375.00	1.47	83.12	1374.89	-4.91	-5.06	1.73	2.88	5.35	161.10
1400.00	1.23	103.24	1399.89	-4.89	-5.08	2.31	2.10	5.59	155.56
1425.00	1.28	103.85	1424.88	-4.97	-5.21	2.84	0.22	5.94	151.40
1450.00	1.27	98.26	1449.87	-5.04	-5.32	3.39	0.50	6.31	147.52
1475.00	1.35	99.35	1474.87	-5.08	-5.41	3.95	0.35	6.70	143.85
1500.00	1.33	100.84	1499.86	-5.14	-5.51	4.53	0.17	7.13	140.60
1525.00	1.37	100.80	1524.85	-5.20	-5.62	5.10	0.15	7.59	137.76
1550.00	1.48	97.02	1549.85	-5.25	-5.72	5.72	0.60	8.08	134.99
1575.00	1.46	100.34	1574.84	-5.30	-5.81	6.35	0.35	8.61	132.46
1600.00	1.53	97.50	1599.83	-5.35	-5.91	6.99	0.40	9.16	130.21
1625.00	1.52	97.94	1624.82	-5.38	-6.00	7.65	0.06	9.72	128.11
1650.00	1.50	96.70	1649.81	-5.42	-6.09	8.30	0.14	10.30	126.23

MD ft	INC deg	AZIM deg	TVD ft	VS ft	N/S ft	E/W ft	DLS %/100ft	CLOSURE DIST ft	CLOSURE DIR deg
1675.00	1.54	97.42	1674.80	-5.45	-6.17	8.96	0.16	10.88	124.53
1700.00	1.59	99.78	1699.79	-5.50	-6.27	9.64	0.33	11.50	123.05
1725.00	1.70	97.68	1724.78	-5.55	-6.38	10.35	0.49	12.15	121.65
1750.00	1.83	99.33	1749.77	-5.60	-6.49	11.11	0.55	12.86	120.31
1775.00	2.09	97.34	1774.76	-5.66	-6.61	11.95	1.08	13.66	118.96
1800.00	2.39	96.03	1799.74	-5.70	-6.73	12.92	1.23	14.57	117.51
1825.00	2.90	96.08	1824.71	-5.73	-6.85	14.07	2.04	15.65	115.96
1850.00	3.02	97.51	1849.68	-5.78	-7.00	15.35	0.55	16.87	114.52
1875.00	3.15	96.26	1874.64	-5.83	-7.16	16.68	0.59	18.16	113.24
1900.00	3.21	97.22	1899.60	-5.89	-7.33	18.06	0.32	19.49	112.08
1925.00	3.12	98.14	1924.56	-5.97	-7.51	19.43	0.42	20.83	111.13
1950.00	2.55	103.40	1949.53	-6.10	-7.74	20.64	2.51	22.04	110.54
1975.00	2.32	107.18	1974.51	-6.29	-8.01	21.66	1.10	23.10	110.30
2000.00	2.21	106.99	1999.49	-6.51	-8.30	22.61	0.46	24.09	110.17
2025.00	2.37	108.79	2024.47	-6.74	-8.61	23.56	0.71	25.08	110.08
2050.00	2.61	109.63	2049.45	-7.02	-8.97	24.58	0.96	26.17	110.04
2075.00	2.59	109.56	2074.42	-7.31	-9.35	25.65	0.05	27.30	110.02
2100.00	2.67	109.33	2099.40	-7.61	-9.73	26.73	0.30	28.45	110.00
2125.00	2.62	109.42	2124.37	-7.90	-10.11	27.82	0.17	29.60	109.98
2150.00	2.45	113.63	2149.35	-8.23	-10.52	28.85	1.02	30.71	110.03
2175.00	2.37	104.42	2174.32	-8.49	-10.86	29.84	1.58	31.76	110.00
2200.00	2.15	109.64	2199.30	-8.70	-11.15	30.79	1.22	32.74	109.91
2225.00	2.10	107.22	2224.29	-8.93	-11.44	31.67	0.41	33.67	109.87
2250.00	1.31	115.96	2249.28	-9.13	-11.70	32.36	3.31	34.41	109.88
2275.00	0.54	125.57	2274.27	-9.30	-11.90	32.71	3.12	34.81	109.98
2300.00	0.46	147.74	2299.27	-9.44	-12.05	32.86	0.83	35.00	110.14
2325.00	0.37	159.73	2324.27	-9.59	-12.21	32.94	0.51	35.13	110.34
2350.00	0.44	165.18	2349.27	-9.76	-12.38	33.00	0.31	35.24	110.56
2375.00	0.40	171.26	2374.27	-9.93	-12.56	33.03	0.22	35.34	110.82
2400.00	0.43	179.86	2399.27	-10.11	-12.74	33.05	0.27	35.42	111.08
2425.00	0.38	190.98	2424.27	-10.29	-12.91	33.03	0.37	35.47	111.35
2450.00	0.49	181.43	2449.27	-10.48	-13.10	33.01	0.52	35.52	111.65

MD	INC	AZIM	TVD	VS	INVS	TEAW	DIS	CLOSURE DIST	CLOSURE DIR
ft	deg	deg	ft	ft	ft	ft	%100ft	ft	deg
2475.00	0.44	182.08	2474.27	-10.68	-13.30	33.01	0.19	35.59	111.95
2500.00	0.53	189.45	2499.27	-10.89	-13.51	32.99	0.44	35.65	112.28
2525.00	0.51	181.40	2524.26	-11.12	-13.74	32.96	0.31	35.71	112.63
2550.00	0.59	189.62	2549.26	-11.35	-13.98	32.94	0.46	35.78	112.99
2575.00	0.64	195.52	2574.26	-11.62	-14.24	32.88	0.31	35.83	113.41
2600.00	0.62	188.74	2599.26	-11.89	-14.51	32.82	0.30	35.89	113.84
2625.00	0.64	187.10	2624.26	-12.17	-14.78	32.79	0.09	35.96	114.27
2650.00	0.68	188.55	2649.26	-12.45	-15.06	32.75	0.17	36.04	114.70
2675.00	0.73	187.22	2674.26	-12.76	-15.37	32.70	0.21	36.13	115.17
2700.00	0.65	189.74	2699.25	-13.06	-15.67	32.66	0.33	36.22	115.62
2725.00	0.62	182.57	2724.25	-13.34	-15.94	32.63	0.33	36.32	116.04
2750.00	0.58	184.87	2749.25	-13.60	-16.20	32.61	0.19	36.42	116.42
2775.00	0.66	186.44	2774.25	-13.87	-16.48	32.59	0.32	36.51	116.82
2800.00	0.64	189.52	2799.25	-14.16	-16.76	32.55	0.16	36.61	117.24
2825.00	0.32	202.26	2824.25	-14.36	-16.96	32.50	1.35	36.66	117.56
2850.00	0.30	228.68	2849.25	-14.48	-17.07	32.42	0.57	36.64	117.76
2875.00	0.23	240.06	2874.25	-14.55	-17.14	32.33	0.34	36.59	117.93
2900.00	0.28	245.18	2899.25	-14.61	-17.19	32.23	0.20	36.53	118.07
2925.00	0.52	231.09	2924.25	-14.72	-17.28	32.09	1.05	36.45	118.31
2950.00	0.27	252.85	2949.24	-14.82	-17.37	31.94	1.15	36.36	118.54
2975.00	0.18	297.24	2974.24	-14.83	-17.37	31.85	0.76	36.28	118.61
3000.00	0.22	294.89	2999.24	-14.79	-17.33	31.77	0.14	36.19	118.62
3025.00	0.25	296.21	3024.24	-14.76	-17.29	31.68	0.11	36.09	118.63
3050.00	0.17	304.24	3049.24	-14.72	-17.25	31.60	0.32	36.00	118.62
3075.00	0.45	92.85	3074.24	-14.70	-17.23	31.67	2.40	36.05	118.55
3100.00	0.92	90.35	3099.24	-14.68	-17.24	31.96	1.89	36.31	118.33
3125.00	1.15	94.24	3124.24	-14.66	-17.25	32.41	0.95	36.72	118.03
3150.00	1.61	93.83	3149.23	-14.66	-17.30	33.01	1.84	37.27	117.65
3175.00	2.64	94.78	3174.21	-14.66	-17.37	33.94	4.13	38.12	117.10
3200.00	3.28	96.05	3199.18	-14.68	-17.49	35.22	2.59	39.32	116.41
3225.00	3.57	96.06	3224.13	-14.72	-17.65	36.71	1.15	40.73	115.68
3250.00	4.11	95.90	3249.08	-14.76	-17.82	38.37	2.17	42.31	114.92

MD	INC	AZIM	TVD	VS	N/S	E/W	DLS	CLOSURE	CLOSURE
ft	deg	deg	ft	ft	ft	ft	"/100ft	DIST	DIR
3275.00	4.98	96.51	3274.00	-14.82	-18.04	40.34	3.48	44.19	114.09
3300.00	5.50	95.95	3298.90	-14.89	-18.29	42.61	2.11	46.37	113.23
3325.00	5.71	95.93	3323.78	-14.96	-18.54	45.04	0.83	48.71	112.37
3350.00	6.24	96.83	3348.64	-15.04	-18.83	47.63	2.17	51.21	111.57
3375.00	6.94	97.21	3373.47	-15.17	-19.18	50.47	2.79	53.99	110.81
3400.00	7.21	97.92	3398.28	-15.34	-19.59	53.53	1.15	57.00	110.10
3425.00	7.40	97.97	3423.08	-15.53	-20.02	56.67	0.75	60.11	109.46
3450.00	7.99	99.20	3447.86	-15.77	-20.53	59.98	2.46	63.40	108.89
3475.00	8.36	99.85	3472.60	-16.08	-21.11	63.49	1.53	66.91	108.40
3500.00	8.57	99.90	3497.33	-16.42	-21.75	67.12	0.83	70.55	107.95
3525.00	8.58	99.68	3522.05	-16.77	-22.38	70.79	0.14	74.25	107.54
3550.00	8.71	99.71	3546.76	-17.11	-23.01	74.50	0.53	77.97	107.17
3575.00	8.72	99.19	3571.48	-17.44	-23.64	78.24	0.31	81.73	106.81
3600.00	8.86	99.74	3596.18	-17.77	-24.26	82.00	0.66	85.52	106.48
3625.00	8.83	100.02	3620.89	-18.13	-24.92	85.79	0.22	89.34	106.20
3650.00	8.84	99.84	3645.59	-18.49	-25.59	89.57	0.12	93.16	105.94
3675.00	9.01	99.37	3670.29	-18.84	-26.23	93.40	0.74	97.01	105.69
3700.00	9.05	99.18	3694.98	-19.17	-26.86	97.27	0.18	100.91	105.44
3725.00	9.05	99.51	3719.66	-19.50	-27.50	101.15	0.21	104.82	105.21
3750.00	9.08	99.09	3744.35	-19.83	-28.14	105.04	0.30	108.74	105.00
3775.00	9.12	98.98	3769.04	-20.14	-28.76	108.94	0.15	112.67	104.79
3800.00	9.16	100.00	3793.72	-20.49	-29.42	112.86	0.67	116.63	104.61
3825.00	9.14	99.23	3818.40	-20.85	-30.08	116.77	0.50	120.59	104.44
3850.00	9.21	98.79	3843.08	-21.16	-30.70	120.71	0.43	124.55	104.27
3875.00	9.17	98.97	3867.76	-21.47	-31.32	124.66	0.20	128.53	104.10
3900.00	9.26	98.26	3892.44	-21.75	-31.92	128.62	0.58	132.52	103.94
3925.00	9.26	98.29	3917.11	-22.02	-32.50	132.60	0.02	136.52	103.77
3950.00	9.27	98.82	3941.79	-22.30	-33.10	136.58	0.34	140.53	103.62
3975.00	9.23	98.45	3966.46	-22.59	-33.70	140.55	0.29	144.53	103.48
4000.00	9.24	98.16	3991.14	-22.86	-34.28	144.52	0.20	148.53	103.34
4025.00	9.19	98.58	4015.82	-23.13	-34.86	148.48	0.33	152.52	103.21
4050.00	9.07	98.46	4040.50	-23.41	-35.45	152.41	0.51	156.48	103.09

MD	INC	AZIM	TVD	VS	N/S	E/W	DLS	CLOSURE	CLOSURE
ft	deg	deg	ft	ft	ft	ft	%/100ft	DIST	DIR
4075.00	9.11	99.14	4065.18	-23.71	-36.06	156.31	0.47	160.42	102.99
4100.00	9.02	98.13	4089.87	-23.99	-36.65	160.21	0.74	164.35	102.88
4125.00	8.68	98.32	4114.57	-24.24	-37.20	164.02	1.36	168.18	102.78
4150.00	8.25	97.81	4139.30	-24.47	-37.71	167.66	1.77	171.85	102.68
4175.00	8.10	98.21	4164.05	-24.69	-38.21	171.18	0.64	175.39	102.58
4200.00	8.03	97.90	4188.80	-24.91	-38.70	174.65	0.31	178.89	102.49
4225.00	8.05	97.79	4213.55	-25.12	-39.18	178.12	0.08	182.38	102.41
4250.00	8.06	97.63	4238.31	-25.31	-39.65	181.59	0.10	185.87	102.32
4275.00	8.13	98.13	4263.06	-25.52	-40.13	185.07	0.41	189.38	102.23
4300.00	8.11	97.61	4287.81	-25.73	-40.62	188.57	0.30	192.90	102.15
4325.00	8.08	97.88	4312.56	-25.93	-41.09	192.06	0.20	196.41	102.08
4350.00	8.12	98.08	4337.31	-26.14	-41.58	195.55	0.17	199.92	102.00
4375.00	8.05	97.68	4362.06	-26.35	-42.06	199.03	0.35	203.43	101.93
4400.00	7.64	98.62	4386.83	-26.57	-42.54	202.41	1.72	206.83	101.87
4425.00	7.18	99.27	4411.62	-26.82	-43.04	205.59	1.87	210.05	101.83
4450.00	6.92	100.05	4436.43	-27.09	-43.56	208.62	1.11	213.12	101.79
4475.00	6.86	99.81	4461.25	-27.38	-44.08	211.57	0.25	216.11	101.77
4500.00	6.71	100.39	4486.07	-27.67	-44.59	214.48	0.64	219.06	101.75
4525.00	6.58	100.79	4510.91	-27.97	-45.13	217.32	0.56	221.96	101.73
4550.00	6.44	101.20	4535.74	-28.29	-45.67	220.11	0.60	224.79	101.72
4575.00	6.46	101.46	4560.59	-28.63	-46.22	222.86	0.15	227.60	101.72
4600.00	6.36	101.67	4585.43	-28.97	-46.78	225.59	0.41	230.39	101.71
4625.00	6.27	102.18	4610.28	-29.33	-47.35	228.29	0.42	233.14	101.72
4650.00	6.14	103.27	4635.13	-29.72	-47.94	230.92	0.71	235.85	101.73
4675.00	6.17	103.47	4659.99	-30.13	-48.56	233.53	0.14	238.53	101.75
4700.00	6.07	104.20	4684.85	-30.56	-49.20	236.12	0.50	241.19	101.77
4725.00	6.01	104.77	4709.71	-31.02	-49.86	238.67	0.35	243.82	101.80
4750.00	5.94	105.51	4734.57	-31.50	-50.53	241.18	0.42	246.41	101.83
4775.00	5.72	105.78	4759.44	-31.99	-51.22	243.62	0.89	248.95	101.87
4800.00	5.70	106.15	4784.32	-32.48	-51.90	246.01	0.16	251.43	101.91
4825.00	5.54	106.03	4809.20	-32.98	-52.58	248.36	0.63	253.87	101.95
4850.00	5.46	107.25	4834.08	-33.48	-53.27	250.66	0.58	256.26	102.00

MD	INC	AZIM	TVD	VS	IN/S	HEAV	DLS	CLOSURE	CLOSURE
ft	deg	deg	ft	ft	ft	ft	/100ft	DIST	DIR
4875.00	5.51	106.47	4858.97	-33.99	-53.96	252.95	0.37	258.64	102.04
4900.00	5.41	107.64	4883.85	-34.51	-54.66	255.22	0.62	261.01	102.09
4925.00	5.28	106.68	4908.75	-35.02	-55.35	257.44	0.62	263.32	102.13
4950.00	5.24	105.66	4933.64	-35.49	-55.98	259.64	0.40	265.61	102.17
4975.00	5.28	105.22	4958.53	-35.92	-56.59	261.86	0.23	267.90	102.20
5000.00	5.17	105.59	4983.43	-36.35	-57.20	264.05	0.46	270.18	102.22
5025.00	5.22	104.59	5008.33	-36.77	-57.79	266.24	0.40	272.44	102.25
5050.00	5.24	104.35	5033.22	-37.16	-58.36	268.44	0.11	274.71	102.26
5075.00	5.20	104.68	5058.12	-37.56	-58.93	270.65	0.18	276.99	102.28
5100.00	5.20	105.38	5083.02	-37.97	-59.52	272.83	0.25	279.25	102.31
5125.00	5.23	105.38	5107.91	-38.40	-60.12	275.03	0.11	281.52	102.33
5150.00	5.32	105.76	5132.81	-38.85	-60.74	277.24	0.39	283.81	102.36
5175.00	5.59	106.30	5157.69	-39.32	-61.39	279.52	1.11	286.19	102.39
5200.00	6.01	105.81	5182.57	-39.83	-62.09	281.95	1.67	288.71	102.42
5225.00	6.07	106.18	5207.43	-40.35	-62.82	284.48	0.30	291.33	102.45
5250.00	6.18	105.64	5232.29	-40.88	-63.55	287.05	0.49	294.00	102.48
5275.00	6.38	104.91	5257.14	-41.39	-64.27	289.68	0.87	296.73	102.51
5300.00	6.38	104.82	5281.98	-41.89	-64.98	292.37	0.04	299.50	102.53
5325.00	6.53	104.58	5306.82	-42.39	-65.69	295.09	0.63	302.31	102.55
5350.00	6.79	105.07	5331.65	-42.91	-66.44	297.89	1.04	305.21	102.57
5375.00	7.00	104.41	5356.47	-43.44	-67.20	300.79	0.89	308.21	102.59
5400.00	7.08	104.38	5381.28	-43.97	-67.96	303.76	0.35	311.27	102.61
5425.00	7.14	103.93	5406.09	-44.49	-68.72	306.76	0.33	314.37	102.63
5450.00	7.14	104.77	5430.90	-45.02	-69.49	309.78	0.42	317.47	102.64
5475.00	7.00	105.13	5455.71	-45.58	-70.28	312.75	0.62	320.55	102.67
5500.00	6.82	106.11	5480.53	-46.16	-71.09	315.64	0.86	323.55	102.69
5525.00	6.71	106.45	5505.35	-46.76	-71.92	318.47	0.47	326.49	102.73
5550.00	6.71	108.03	5530.18	-47.41	-72.78	321.26	0.74	329.40	102.77
5575.00	6.66	108.13	5555.01	-48.09	-73.69	324.02	0.18	332.30	102.81
5600.00	6.63	109.94	5579.84	-48.82	-74.63	326.76	0.85	335.17	102.87
5625.00	6.68	109.18	5604.67	-49.57	-75.60	329.49	0.42	338.05	102.92
5650.00	6.64	109.57	5629.51	-50.32	-76.56	332.23	0.26	340.93	102.98

MD	INC	AZIM	TVD	VS	IN/S	E/W	DLS	CLOSURE	CLOSURE
ft	deg	deg	ft	ft	ft	ft	/100ft	DIST	DIR
5675.00	6.77	109.43	5654.33	-51.07	-77.54	334.98	0.54	343.83	103.03
5700.00	6.67	109.75	5679.16	-51.84	-78.52	337.74	0.44	346.74	103.09
5725.00	6.76	110.07	5703.99	-52.61	-79.51	340.48	0.37	349.64	103.14
5750.00	6.71	110.05	5728.82	-53.40	-80.52	343.24	0.17	352.55	103.20
5775.00	6.73	110.39	5753.65	-54.19	-81.53	345.98	0.17	355.46	103.26
5800.00	6.43	111.57	5778.48	-55.01	-82.55	348.66	1.30	358.30	103.32
5825.00	5.67	111.75	5803.34	-55.78	-83.53	351.11	3.08	360.91	103.38
5850.00	5.25	112.18	5828.23	-56.50	-84.42	353.31	1.66	363.26	103.44
5875.00	5.06	112.92	5853.13	-57.19	-85.28	355.39	0.83	365.48	103.49
5900.00	5.06	112.15	5878.03	-57.88	-86.12	357.42	0.27	367.65	103.55
5925.00	5.02	113.67	5902.93	-58.57	-86.98	359.45	0.55	369.82	103.60
5950.00	5.05	113.18	5927.84	-59.28	-87.85	361.46	0.20	371.98	103.66
5975.00	5.18	113.90	5952.74	-60.01	-88.74	363.50	0.56	374.18	103.72
6000.00	5.15	113.22	5977.64	-60.74	-89.64	365.57	0.26	376.39	103.78
6025.00	5.20	113.58	6002.53	-61.48	-90.53	367.63	0.21	378.62	103.83
6050.00	5.24	113.42	6027.43	-62.22	-91.44	369.72	0.20	380.86	103.89
6075.00	5.20	113.59	6052.33	-62.96	-92.35	371.81	0.18	383.10	103.95
6100.00	4.62	114.45	6077.24	-63.67	-93.22	373.76	2.34	385.21	104.00
6125.00	3.88	117.21	6102.17	-64.34	-94.02	375.43	3.05	387.02	104.06
6150.00	3.42	119.35	6127.12	-64.98	-94.77	376.83	1.93	388.57	104.12
6175.00	3.39	120.60	6152.07	-65.62	-95.52	378.12	0.32	390.00	104.18
6200.00	3.34	119.93	6177.03	-66.26	-96.26	379.39	0.26	391.41	104.24
6225.00	3.53	121.72	6201.98	-66.93	-97.02	380.68	0.87	392.85	104.30
6250.00	3.54	123.01	6226.94	-67.65	-97.85	381.98	0.32	394.31	104.37
6275.00	3.68	123.20	6251.89	-68.40	-98.71	383.30	0.54	395.80	104.44
6300.00	3.76	123.62	6276.83	-69.19	-99.60	384.65	0.35	397.34	104.52
6325.00	3.84	124.65	6301.78	-70.01	-100.53	386.02	0.43	398.90	104.60
6350.00	3.85	124.68	6326.72	-70.85	-101.49	387.40	0.03	400.48	104.68
6375.00	3.88	124.21	6351.67	-71.69	-102.44	388.79	0.16	402.06	104.76
6400.00	3.93	124.82	6376.61	-72.54	-103.41	390.20	0.28	403.67	104.84
6425.00	3.90	124.11	6401.55	-73.40	-104.37	391.60	0.23	405.27	104.92
6450.00	3.57	121.28	6426.50	-74.17	-105.25	392.97	1.54	406.82	104.99

MD	INC	AZIM	TVD	VS	TN/S	HE/W	DLS	CLOSURE DIST	CLOSURE DIR
ft	deg	deg	ft	ft	ft	ft	%/100ft	ft	deg
6475.00	3.05	117.70	6451.45	-74.78	-105.97	394.23	2.22	408.22	105.05
6500.00	2.67	113.36	6476.42	-75.23	-106.51	395.35	1.75	409.44	105.08
6525.00	2.62	112.05	6501.40	-75.59	-106.95	396.41	0.30	410.59	105.10
6550.00	2.57	113.45	6526.37	-75.95	-107.39	397.46	0.32	411.71	105.12
6575.00	2.49	112.43	6551.35	-76.29	-107.82	398.47	0.40	412.80	105.14
6600.00	2.41	111.28	6576.32	-76.61	-108.22	399.47	0.36	413.86	105.16
6625.00	2.25	108.65	6601.30	-76.89	-108.57	400.42	0.77	414.88	105.17
6650.00	2.20	109.23	6626.28	-77.13	-108.88	401.34	0.21	415.85	105.18
6675.00	2.11	113.51	6651.27	-77.40	-109.22	402.22	0.75	416.78	105.19
6700.00	2.31	95.89	6676.25	-77.56	-109.46	403.14	2.81	417.73	105.19
6725.00	2.01	101.58	6701.23	-77.63	-109.60	404.07	1.45	418.67	105.18
6750.00	1.96	101.65	6726.21	-77.74	-109.77	404.92	0.21	419.53	105.17
6775.00	1.93	101.67	6751.20	-77.84	-109.94	405.75	0.14	420.38	105.16
6800.00	1.96	101.39	6776.19	-77.95	-110.11	406.58	0.13	421.22	105.15
6825.00	2.05	99.50	6801.17	-78.04	-110.27	407.44	0.45	422.10	105.14
6850.00	2.09	100.52	6826.15	-78.12	-110.43	408.33	0.22	422.99	105.13
6875.00	2.21	97.80	6851.14	-78.20	-110.58	409.25	0.65	423.93	105.12
6900.00	2.30	98.43	6876.12	-78.26	-110.72	410.23	0.36	424.90	105.10
6925.00	2.43	98.48	6901.10	-78.33	-110.87	411.25	0.52	425.93	105.09
6950.00	2.50	99.20	6926.07	-78.41	-111.03	412.31	0.31	427.00	105.07
6975.00	2.53	98.39	6951.05	-78.50	-111.20	413.39	0.19	428.09	105.06
7000.00	2.54	98.48	6976.02	-78.57	-111.36	414.49	0.05	429.19	105.04
7025.00	2.52	99.75	7001.00	-78.66	-111.54	415.58	0.24	430.29	105.02
7050.00	2.51	98.55	7025.98	-78.75	-111.71	416.66	0.22	431.38	105.01
7075.00	2.46	99.28	7050.95	-78.83	-111.88	417.73	0.22	432.46	104.99
7100.00	2.32	98.63	7075.93	-78.92	-112.04	418.76	0.56	433.49	104.98
7125.00	2.21	100.57	7100.91	-79.00	-112.21	419.74	0.54	434.48	104.97
7150.00	2.19	98.97	7125.89	-79.09	-112.37	420.69	0.26	435.44	104.96
7175.00	2.13	101.29	7150.87	-79.18	-112.54	421.62	0.44	436.38	104.94
7200.00	2.10	101.23	7175.86	-79.29	-112.72	422.52	0.13	437.30	104.94
7225.00	1.88	103.50	7200.84	-79.41	-112.90	423.37	0.93	438.16	104.93
7250.00	1.75	105.77	7225.83	-79.55	-113.10	424.13	0.59	438.95	104.93

MD	INC	AZIM	TVD	VS	NVS	HEAV	DLS	CLOSURE DIST	CLOSURE DIR
ft	deg	deg	ft	ft	ft	ft	7100ft	ft	deg
7275.00	1.72	108.71	7250.82	-79.72	-113.32	424.85	0.38	439.71	104.94
7300.00	1.81	106.29	7275.81	-79.89	-113.55	425.59	0.47	440.47	104.94
7325.00	1.90	103.99	7300.79	-80.04	-113.76	426.37	0.48	441.28	104.94
7350.00	2.26	99.28	7325.78	-80.15	-113.94	427.25	1.59	442.19	104.93
7375.00	2.62	96.78	7350.75	-80.21	-114.09	428.31	1.49	443.24	104.92
7400.00	2.95	97.78	7375.73	-80.27	-114.25	429.51	1.37	444.45	104.90
7425.00	3.34	101.69	7400.69	-80.40	-114.48	430.86	1.76	445.81	104.88
7450.00	3.56	105.24	7425.64	-80.63	-114.83	432.33	1.22	447.32	104.88
7475.00	3.78	105.57	7450.59	-80.94	-115.26	433.87	0.89	448.91	104.88
7500.00	3.82	107.17	7475.54	-81.28	-115.72	435.46	0.45	450.57	104.88
7525.00	3.69	109.69	7500.48	-81.67	-116.24	437.01	0.84	452.20	104.90
7550.00	3.51	111.74	7525.43	-82.11	-116.79	438.48	0.87	453.76	104.92
7575.00	3.42	111.73	7550.39	-82.56	-117.35	439.88	0.38	455.26	104.94
7600.00	3.44	112.92	7575.34	-83.02	-117.92	441.26	0.30	456.75	104.96
7625.00	3.57	111.78	7600.30	-83.49	-118.50	442.68	0.59	458.27	104.99
7650.00	3.64	113.09	7625.25	-83.97	-119.10	444.13	0.42	459.83	105.01
7675.00	3.67	112.78	7650.20	-84.47	-119.73	445.60	0.16	461.40	105.04
7700.00	3.64	113.96	7675.14	-84.99	-120.36	447.06	0.32	462.98	105.07
7725.00	3.43	117.08	7700.10	-85.54	-121.02	448.46	1.16	464.50	105.10
7750.00	3.13	121.94	7725.06	-86.14	-121.72	449.70	1.62	465.88	105.15
7775.00	3.08	121.54	7750.02	-86.77	-122.44	450.85	0.23	467.18	105.19
7800.00	3.21	121.27	7774.98	-87.39	-123.15	452.03	0.53	468.50	105.24
7825.00	3.40	117.68	7799.94	-87.99	-123.86	453.28	1.11	469.90	105.28
7850.00	3.65	116.16	7824.89	-88.58	-124.55	454.65	1.08	471.40	105.32
7875.00	3.92	113.37	7849.84	-89.15	-125.24	456.15	1.29	473.03	105.35
7900.00	4.36	111.82	7874.77	-89.71	-125.93	457.81	1.85	474.82	105.38
7925.00	5.00	109.63	7899.69	-90.28	-126.65	459.72	2.63	476.85	105.40
7950.00	5.46	108.95	7924.59	-90.86	-127.41	461.87	1.86	479.12	105.42
7975.00	5.67	109.06	7949.47	-91.46	-128.19	464.16	0.85	481.54	105.44
8000.00	5.72	109.34	7974.34	-92.09	-129.01	466.51	0.25	484.02	105.46
8025.00	5.78	109.59	7999.22	-92.74	-129.85	468.87	0.24	486.51	105.48
8050.00	5.75	110.09	8024.09	-93.41	-130.70	471.23	0.24	489.02	105.50

SURVEY REPORT

MYOX 21 STATE COM #35H

COMPUTED KEEPER GYRO WIRELINE SURVEY

MD	INC	AZIM	TVD	VS	N/S	E/W	DLS	CLOSURE	CLOSURE
ft	deg	deg	ft	ft	ft	ft	%/100ft	DIST	DIR
8075.00	5.55	110.42	8048.97	-94.07	-131.55	473.54	0.81	491.47	105.53
8100.00	5.26	110.59	8073.86	-94.72	-132.37	475.74	1.15	493.81	105.55
8125.00	5.07	110.87	8098.76	-95.35	-133.17	477.85	0.77	496.06	105.57
8150.00	5.11	110.36	8123.66	-95.97	-133.95	479.92	0.24	498.26	105.59
8175.00	5.24	109.66	8148.56	-96.57	-134.72	482.04	0.59	500.51	105.61
8200.00	5.35	110.23	8173.45	-97.19	-135.51	484.21	0.49	502.81	105.63
8225.00	5.53	109.48	8198.34	-97.82	-136.31	486.44	0.75	505.18	105.65
8250.00	5.75	109.57	8223.22	-98.45	-137.14	488.75	0.90	507.63	105.67
8275.00	5.89	109.48	8248.09	-99.11	-137.98	491.14	0.56	510.16	105.69
8300.00	5.88	108.42	8272.96	-99.75	-138.82	493.57	0.44	512.72	105.71
8325.00	5.86	109.27	8297.83	-100.38	-139.64	495.98	0.36	515.27	105.72
8350.00	5.64	109.62	8322.70	-101.03	-140.47	498.35	0.88	517.77	105.74
8375.00	5.57	108.60	8347.58	-101.65	-141.27	500.65	0.48	520.20	105.76
8400.00	5.49	108.10	8372.46	-102.22	-142.03	502.94	0.37	522.61	105.77
8425.00	5.44	108.47	8397.35	-102.79	-142.78	505.20	0.25	524.99	105.78
8450.00	5.43	108.39	8422.24	-103.36	-143.53	507.45	0.03	527.35	105.79
8475.00	5.49	108.44	8447.12	-103.93	-144.28	509.70	0.24	529.73	105.80
8500.00	5.38	108.72	8472.01	-104.51	-145.03	511.95	0.47	532.10	105.82
8525.00	5.11	108.86	8496.91	-105.08	-145.77	514.11	1.08	534.38	105.83
8550.00	4.99	110.12	8521.81	-105.64	-146.50	516.19	0.67	536.58	105.84
8575.00	4.78	110.33	8546.72	-106.22	-147.24	518.19	0.82	538.70	105.86
8600.00	4.67	114.68	8571.64	-106.86	-148.03	520.09	1.50	540.74	105.89
8625.00	4.63	113.45	8596.55	-107.54	-148.85	521.94	0.43	542.75	105.92
8650.00	4.38	113.71	8621.48	-108.18	-149.64	523.74	1.02	544.70	105.95
8675.00	4.31	113.82	8646.40	-108.80	-150.40	525.47	0.27	546.57	105.97
8700.00	4.20	115.21	8671.33	-109.44	-151.17	527.16	0.61	548.41	106.00
8725.00	3.96	116.16	8696.27	-110.08	-151.94	528.77	0.99	550.16	106.03
8740.00	3.89	114.94	8711.24	-110.45	-152.39	529.69	0.76	551.18	106.05