UNITED STATES DEPARTMENT OF THE INTERIOR MINERALS MANAGEMENT SERVICE

NTL No. 2009-N10

Effective Date: October 7, 2009 Expiration Date: October 7, 2014

NOTICE TO LESSEES AND OPERATORS OF FEDERAL OIL, GAS AND SULPHUR LEASES IN THE OUTER CONTINENTAL SHELF

Directional and Inclination Survey Data Submission Requirements

This Notice to Lessees and Operators (NTL) is issued pursuant to 30 CFR 250.103 and replaces NTL 2004-N03. It applies to all wells that are spud after the effective date. In this NTL, the Minerals Management Service (MMS) defines the data exchange format on how lessees/operators (you) submit directional surveys required by 30 CFR 250.461, 468, and 469.

As stated in NTL 2006 G-16, submit to MMS one digital copy of the final composite directional survey. Submit the digital copy on a compact disc using the MMS ASCII format, including all header and data items as shown in Attachment 1, "Exchange Format for Directional Surveys." The header and data records are necessary to ensure complete, accurate wellbore data and will facilitate the use of industry data exchange standards. The table in Attachment 1 shows the Data Type code equivalents (e.g., H0130) for the *United Kingdom Offshore Operators Association (UKOOA) Data Exchange Format for Well Deviation Data, P7/2000 Standard.*

The MMS collects, verifies, and stores data by the well's unique 12-digit API number that is assigned by the MMS. The MMS uses the data collected to make informed regulatory decisions based on your timely submittal of a complete comprehensive package clearly labeled with the appropriate API numbers and contact information.

Region	Mail Directional Surveys to:	Send comments or questions to:
Gulf of	Minerals Management Service (MS 5020)	Terri Keller
Mexico	Technical Data Management Section	504-736-2955
and	1201 Elmwood Park Boulevard	or
Atlantic	New Orleans, Louisiana 70123-2394	Theresa. Keller@mms.gov
Region	E-mail: tdms@mms.gov	
	Phone: (504) 736-2887 Fax: (504) 736-2857	

Alaska Region	Minerals Management Service (MS 8200) Office of Field Operations 3801 Centerpoint Drive Anchorage, Alaska 99508-4363 Phone: (907) 271-6065	Doug Choromanski 907-334-5308 or Douglas Choromanski@mms.gov
Pacific Region	Minerals Management Service (MS 7100) Office of Production, Development, and Resource Evaluation 770 Paseo Camarillo Camarillo, California 93010 Phone: (805) 389-7700 Fax: (805) 389-7737	Mike Brickey 805-389-7701 or <u>Michael Brickey@mms.gov</u>

This NTL can be found on the MMS website at http://www.mms.gov. For directional survey information refer to:

http://www.gomr.mms.gov/homepg/mmsforms/REPHANDBK DIRSVY.pdf

Paper Reduction Act of 1995 Statement: The collection of information referred to in this NTL provides clarification, description, or interpretation of requirements contained in 30 CFR 250, subpart D. The Office of Management and Budget (OMB) approved the information collection requirements and have assigned OMB control number 1010-0141. This NTL does not impose any information collection requirements subject to the Paperwork Reduction Act of 1995.

Sincerely,

Chris Oynes

Associate Director for

Chris Oynes

Offshore Energy and Minerals Management

Attachments

Attachment 1

EXCHANGE FORMAT FOR DIRECTIONAL SURVEYS

An example of a complete MMS ASCII file is shown Attachment 2. The first column in the table below represents the equivalent header type codes and column numbers for the UKOOA P7/2000 data exchange format for well deviation data for format comparison. The MMS Type codes cover columns 1-5, the MMS Item name cover columns 7-41, and the MMS format statements begin in column 43 and end in column 130 with no leading spaces. MMS has added the following cards: "H0112 WellNameSuffix", "H0114 BottomHoleLeaseNumber", "H0624 TieinMeasuredDepth" and "H00625 TieinTotalVerticalDepth". The format description is given in FORTRAN style (i.e. F-float, A-character, I-integer, X-space). Example (A4, 2X, F6.3) = ABCD 11.111.

Header Records are as follows:

∪КООА Туре	MMS Type	MMS Item	MMS Format	Description
H0001	H0001	FormatNameVersion	A20	Format Name and Version: MMS-P7/2000_v1.0 or UKOOA P7_v2000 1.01
H0002	H0002	FormatType		Format Type: ASCII = 1, XML = 2
H01,10	H0110	WellName	A58	Well Name: The name assigned to the well. It may be a special name or the name of the property to which the well belongs. More information and specific details on Well Naming and Numbering Standards can be found in NTL 2000-N07 (e.g., AJ001).
	H0112 Added Card	WellNameSuffix	A8	Well Name Suffix: The well name suffix is an extension to the well name which identifies each wellbore and indicates the number of times a well has been sidetracked or bypassed. An 8-character suffix to the well number that identifies a sidetrack (ST) or bypass (BP) and the sidetrack and bypass number (e.g., STNNBPNN). An original hole will have a suffix of ST00BP00, the first sidetrack off the original borehole will have a suffix of ST01BP00, the first bypass off the original borehole will have a suffix of ST00BP01. If the first sidetrack is bypassed, the suffix will be ST01B01. More information and specific details on Well Naming and Numbering Standards can be found in NTL 2000-N07 (e.g., ST00BP01).
	H0114 Added Card	BottomHoleLeaseNumber	A6	Lease Number: The lease number assigned by the Minerals Management Service to the lease that contains the bottomhole location of a borehole. More information and specific details on Well Naming and Numbering Standards can be found in NTL 2000-N07 (e.g., G09999, Y09999, A09999, or P09999).
H0130	H0130	UniqueWellIdentifier	A58	API number: A unique well identification number consisting of (left justified) a two-digit state code (or pseudo for Offshore), a three-digit county code (or pseudo for Offshore), a five-digit unique well code and, a two-digit sidetrack code as defined in API Bulletin D12A (e.g., 177561234501).

 H0390					H0300	H0210	H0200	H0170
 H0390					H0300	H0210	H0200	H0170
Elevation Operator					ElevationReference	ProjectionIdentification	GeodeticDatum	ParentWellIdentifier
F8.2 A58					Ą58	A53	A58	A58
Elevation: The distance from the physical reference point to the datum. The Measured Depth Elevation in feet from the Elevation Reference to mean sea level. For the MMS, mean sea level will be considered equal to the UKOOA's Vertical Reference Datum (VRD) (e.g., 109.00). Operator: The person the lessee(s) designates as having control or management of operations on the leased area or a portion thereof. An operator can be a lessee; the MMS-approved designated agent of the lessee(s), or holder of operation Inc.).	ET Estimated IN Interpolated ES Echo Sounder UN Unknown	GL Ground Level CF Casing Flange SL Sea Level TS Topographic Sheet	RB Rotary Bushing DF Drill Floor RT Rotary Table MT Drill Floor Mat	In addition, the elevation reference is equal to the UKOOA's Well Reference Point (WRP). The following Operator elevation reference codes can be used: KB Kelly Bushing	Elevation Reference: The physical reference point used to measure depth elevations. (e.g., KB or Kelly Bushing).	Projection Identification: The type of projection used to represent the Earth as a 2-deminisional map. More specifically, a specific type of representation that identifies the type of coordinate projection used to describe the point (x-y) values. Examples of map projections: UTM Zones, Transverse Mercator, Lambert and State Plans such as UTM 15 or Louisiana Lambert.	Geodetic Datum Code: A common abbreviation for the reference horizontal datum that specifies the type of geodetic reference systems used in the collection of spatial data. Refer to NTL No. 2002-G12 for more specific instructions (e.g., NAD27).	Parent Well Identifier: The unique well identification number or API number of the borehole that establishes a hierarchy of wellbores. The Parent Well Identifier References the wellbore from which the current wellbore was kicked off. The first ten digits of the 12-digit API Number of the parent wellbore must be equivalent to the subsequent sidetrack or bypass boreholes. The 11 th and 12 th digits will be "00" for the original borehole (e.g., 177671234500).

An example of a complete MMS ASCII file is shown Attachment 2. Data records will start with Data Column Descriptions on the first line of the data followed by "|" between each item (i.e., D| MeasuredDepth| Azimuth| ToolType). The Data Section Identifier (D) covers columns 1, the Measured Depth columns 3-10, the Inclination columns 12-18, the Azimuth columns 20-26, the Tool Type columns 28-30 and the Station Type in column 32. The format description is given in FORTRAN style (i.e., F-float, A-character, I-integer, X-space). Example (A4, 2X, F6.3) = ABCD 11.111.

Data Records are as follows:

Col. 6: Station Type		Col 5: Survey Tool Type	Col 4: Azimuth	Col 3: Inclination	Col 2: Measured Depth	Col 1: Data Section Identifier	UKOOA Column Description
Col 6: StationType		Col 5: ToolType	Col 4: Azimuth	Col 3: Inclination	Col 2: MeasuredDepth	Col 1: D	MMS Column Description
32		28-30	20-26	12-18	3-10	1	Column No.
Α1		ıз	F7.3	F7.3	F8.2	A1	Format
Station Type: S=Surveyed, P=Planned, E=Projected or Estimated, or O=Other (e.g., S).	 Inclination Only Magnetic (Film based on single shot or multishot) Electronic Magnetic Single Shot or multishot Dipmeter or other FE wireline log MWD or steering tool Conventional Gyro (Film based on single shot or multishot) North Seeking Gyro Inertial Unknown 	Tool Type: Choose from types of instruments used to take the measurements:		Inclination: The vertical angular measurement of deviation of the well path from its vertical orientation. Submit this number in degrees decimal to the accuracy of three decimal places where zero degrees is vertical downwards and 90 degrees is horizontal (e.g., 015.250).	Measured Depth: The distance in feet increasing along path of the wellbore from the elevation reference to the measurement point. Each field will have the 2 decimal places recorded with real data or zeros and right justified (e.g., 11309.00).	Data Section Identifier: In order to recognize data records (e.g., D).	Data Description

Attachment 2

EXAMPLE OF AN ASCII FILE FOR DIRECTIONAL SURVEYS

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D 12248.00 005.070 241.740
                                                                                                                                                                                                                                                                \texttt{D} | \texttt{MeasuredDepth} | \texttt{Inclination} | \texttt{Azimuth} | \texttt{ToolType} | \texttt{StationType}
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