


FULL ASCII

Last Updated: 06/27/2008 by J McGrath

Column Name	Justification	Allow Blank	Data Type	Data Match	Starting Column	Length	Comments
DATAHDR1							
datahdr1.data_owner_label				"OWNER:"	9	6	
datahdr1.data_owner				"P2ES "	16	6	
datahdr1.file_contents_label				"FILE CONTENTS:"	23	14	
datahdr1.file_contents				"DIRECTIONAL SURVEY DATA"	38	23	
DATAHDR2							
datahdr2.data_file_date_label				"DATA EXTRACT DATE:"	9	18	
datahdr2.data_file_date	"FULL"	false	"DATE"		28	10	
datahdr2.processing_software	"LEFT"	false	"STRING"		41	80	
DATAHDR3							
datahdr3.file_format_label				"FORMAT:"	9	7	
datahdr3.format_name	"LEFT"	false	"STRING"		17	15	
datahdr3.format_description_file	"LEFT"	false	"STRING"		33	45	
DATAHDR4							
datahdr4.file_north_reference_label				"FILE NORTH REFERENCE:"	9	21	
datahdr4.north_reference				"TRUE" or "GRID"	32	5	
datahdr4.datum_label				"DATUM:"	39	6	
datahdr4.datum	"LEFT"	true	"STRING"		46	6	
datahdr4.projection_and_zone_info_label	"LEFT"	true	"STRING"		53	82	

Tobin Map Data Products: DDSO Transfer Format - Full ASCII

REVD_RUN							
revd_run.run_no	"RIGHT"	true	"INT"		9	2	
revd_run.top_run_depth	"RIGHT"	true	"DEC"		12	8	
revd_run.bottom_run_depth	"RIGHT"	true	"DEC"		21	8	
revd_run.date_value_used_for_corr	"FULL"	true	"INT"		30	8	
revd_run.date_event_used	"LEFT"	true	"STRING"		39	8	
revd_run.output_tie_point_required	"LEFT"	true	"STRING"		48	1	
revd_run.output_revised_tie_dist_ns	"RIGHT"	true	"DEC"		50	9	
revd_run.output_revised_tie_dist_ew	"RIGHT"	true	"DEC"		60	9	
revd_run.output_tie_tvd	"RIGHT"	true	"DEC"		70	8	
revd_run.output_north_reference	"LEFT"	true	"STRING"		80	1	
revd_run.output_map_projection	"LEFT"	true	"STRING"		82	4	
revd_run.output_projection_zone	"LEFT"	true	"STRING"		87	4	
revd_run.output_datum	"LEFT"	true	"STRING"		97	5	
revd_run.output_p2_proc_angle_applied	"RIGHT"	true	"DEC"	If NorthRef is True to True then must be blank or zero	103	6	NOTE: NorthRef is calculated as svruns1.azimuth_north_type TO datahdr4.north_reference. See the bottom of this page for the actual

Tobin Map Data Products: DDSO Transfer Format - Full ASCII

				<p>If NorthRef is True to True: 1) Must be blank or "NONE"</p> <p>If NorthRef is not True to True: 1) If output_p2_proc_angle_applied = zero <u>can</u> be CONVG 2) If output_rotation_angle_flag not = CONVG and output_p2_proc_angle_applied = blank or zero must be blank or NONE 3) If output_rotation_angle_flag not = CONVG and output_p2_proc_angle_applied not = blank or zero must be MAGDEC, TGRID, or CONVG</p>			<p>NOTE: validation is temporarily commented out if this flag is blank. Will be put back in once development completes the code to populate this field. 05/28/08</p> <p>NOTE: NorthRef is calculated as srvrns1.azimuth_north_type TO</p>
revd_run.output_rotation_angle_flag	"LEFT"	true	"STRING"		111	6	
revd_run.output_calculation_method	"LEFT"	true	"STRING"		118	3	
SRVRUNS1							
srvrns1.survey_id	"RIGHT"	true	"INT"		9	2	
srvrns1.source	"LEFT"	true	"STRING"		12	10	
srvrns1.top_depth	"RIGHT"	true	"DEC"		23	8	
srvrns1.base_depth	"RIGHT"	true	"DEC"		32	8	
srvrns1.p2_survey_beg_date	"FULL"	true	"INT"		41	8	
srvrns1.survey_date	"FULL"	true	"INT"		50	8	
srvrns1.p2_tie_point_required	"LEFT"	true	"STRING"		59	1	
srvrns1.p2_y_tie_dist	"RIGHT"	true	"DEC"		61	11	
srvrns1.p2_x_tie_dist	"RIGHT"	true	"DEC"		73	11	
srvrns1.p2_tie_tvd	"RIGHT"	true	"DEC"		85	8	
srvrns1.p2_tie_inclination	"RIGHT"	true	"DEC"	If not blank then must fall between (and including) 0 and 180	94	6	
srvrns1.p2_tie_azimuth_unproc	"RIGHT"	true	"DEC"	If not blank then must fall between (and including) 0 and 360	101	6	
srvrns1.azimuth_north_type	"LEFT"	false	"STRING"	TS, U	108	2	
srvrns1.p2_azimuth_projection	"LEFT"	true	"STRING"	LA, LAA, LAM, LAMA, LAMI, UTM, TM	111	4	
srvrns1.p2_projection_zone	"LEFT"	true	"STRING"		116	4	

Tobin Map Data Products: DDSO Transfer Format - Full ASCII

svruns1.p2_survey_map_datum	"LEFT"	true	"STRING"		121	10	
svruns1.coord_system_id	"LEFT"	true	"STRING"		132	19	
svruns1.p2_north_correct_angle	"RIGHT"	true	"DEC"		152	6	Validation linked to P2_North_Correct
svruns1.p2_magnetic_declination_dir	"LEFT"	false	"STRING"	E, W	159	1	
svruns1.p2_north_corr_angle_type	"LEFT"	true	"STRING"	1) If P2_North_Correct_Angle = blank then must = blank, "UK" or "NONE" 2) If P2_North_Correct_Angle = or > 0.00 then must = MAGDEC, TGRID or	161	6	Validation linked to P2_North_Correct_Angle
svruns1.p2_north_correct_angle_ouom	"LEFT"	true	"STRING"		168	5	
svruns1.p2_y_tie_dist_ouom	"LEFT"	true	"STRING"		174	5	
svruns1.p2_x_tie_dist_ouom	"LEFT"	true	"STRING"		180	5	
svruns1.p2_tie_tvd_ouom	"LEFT"	true	"STRING"		186	5	
svruns1.p2_tie_inclination_ouom	"LEFT"	true	"STRING"		193	5	
svruns1.p2_tie_azimuth_unproc_ouom	"LEFT"	true	"STRING"		198	5	
svruns1.top_depth_ouom	"LEFT"	true	"STRING"		204	5	
svruns1.base_depth_ouom	"LEFT"	true	"STRING"		210	5	
SRVRUNS2							
svruns2.survey_id	"RIGHT"	true	"INT"		9	2	
svruns2.source	"LEFT"	false	"STRING"		12	10	
svruns2.survey_company_code	"LEFT"	true	"INT"		23	6	
svruns2.survey_co_code_source	"LEFT"	true	"STRING"		30	5	
svruns2.p2_survey_compiler_code	"LEFT"	true	"INT"		36	6	
svruns2.p2_surv_comp_code_src	"LEFT"	true	"STRING"		43	5	
svruns2.p2_hc_survey_report_type	"LEFT"	false	"STRING"		49	10	
svruns2.compute_method	"LEFT"	false	"STRING"		60	3	
svruns2.survey_type	"LEFT"	false	"STRING"		64	12	
svruns2.record_mode	"LEFT"	true	"STRING"		77	12	
svruns2.p2_hc_proc_type	"LEFT"	false	"STRING"		90	1	
svruns2.plane_of_proposal	"RIGHT"	true	"DEC"		92	6	
svruns2.p2_resample_interval	"RIGHT"	true	"DEC"		99	3	
svruns2.p2_rad_uncertainty_dist	"RIGHT"	true	"DEC"		103	8	

Tobin Map Data Products: DDSO Transfer Format - Full ASCII

svruns2.p2_rad_uncertainty_reas	"RIGHT"	true	"INT"		112	1
svruns2.dir_survey_class	"LEFT"	false	"STRING"		114	10
svruns2.p2_digital_source	"LEFT"	false	"STRING"		125	10
svruns2.p2_resample_interv_ouom	"LEFT"	false	"STRING"		136	5
svruns2.p2_rad_uncert_dist_ouom	"LEFT"	false	"STRING"		142	5
svruns2.proposed_plane_nref	"LEFT"	true	"STRING"		148	4
svruns2.proposed_planezone	"LEFT"	true	"STRING"		153	4
SURV_PTS						
surv_pts.ppdm_survey_id	"RIGHT"	false	"STRING"		9	10
surv_pts.ppdm_source	"LEFT"	false	"STRING"		20	10
surv_pts.ppdm_depth_obs_no	"RIGHT"	false	"INT"		31	8
surv_pts.rawdata_station_md	"RIGHT"	true	"DEC"		40	8
surv_pts.rawdata_inclination	"RIGHT"	true	"DEC"	If not blank then must fall between (and including) 0 and 180	49	6
surv_pts.p2_azimuth_unproc	"RIGHT"	true	"DEC"	If not blank then must fall between (and including) 0 and 360	56	6
surv_pts.procesd_station_tvd	"RIGHT"	true	"DEC"		63	8
surv_pts.procesd_station_tvd_ss	"RIGHT"	true	"DEC"		72	9
surv_pts.procesd_azimuth	"RIGHT"	true	"DEC"	If not blank then must fall between (and including) 0 and 360	82	6
surv_pts.procesd_y_offset	"RIGHT"	true	"DEC"		89	9
surv_pts.ppdm_ns_direction	"LEFT"	true	"STRING"		99	1
surv_pts.procesd_x_offset	"RIGHT"	true	"DEC"		101	9
surv_pts.ppdm_ew_direction	"LEFT"	true	"STRING"		111	1
surv_pts.p2_delta_latitude	"RIGHT"	true	"DEC"		113	9
surv_pts.p2_delta_longitude	"RIGHT"	true	"DEC"		123	9
surv_pts.ppdm_latitude	"RIGHT"	true	"DEC"		133	10
surv_pts.ppdm_longitude	"RIGHT"	true	"DEC"	If not blank then must fall between (and including) -90 and +90	144	11
surv_pts.p2_closure_dist	"RIGHT"	true	"DEC"	If not blank then must fall between (and including) -180 and +180	156	8
surv_pts.p2_closure_dir	"RIGHT"	true	"DEC"		165	6
surv_pts.vertical_section	"RIGHT"	true	"DEC"		172	8

Tobin Map Data Products: DDSO Transfer Format - Full ASCII

surv_pts.ppdm_dogleg_severity	"RIGHT"	true	"DEC"		181	6
surv_pts.ppdm_point_type	"LEFT"	true	"STRING"		188	10
surv_pts.p2_survey_type	"LEFT"	true	"STRING"		199	10
surv_pts.azimuth_ouom	"LEFT"	true	"STRING"		210	5
surv_pts.inclination_ouom	"LEFT"	true	"STRING"		216	5
surv_pts.station_md_ouom	"LEFT"	true	"STRING"		222	5
surv_pts.station_tvd_ouom	"LEFT"	true	"STRING"		228	5
surv_pts.x_offset_ouom	"LEFT"	true	"STRING"		234	5
surv_pts.y_offset_ouom	"LEFT"	true	"STRING"		240	5
surv_pts.vertical_section_ouom	"LEFT"	true	"STRING"		246	5
surv_pts.p2_station_tvd_ss_ouom	"LEFT"	true	"STRING"		252	5
SRVCOMM						
srvcomm.comment				size check only	9	71
SURVQUAL						
survqual.composite_run	"LEFT"	false	"STRING"		9	10
survqual.date_loaded	"FULL"	false	"DATE"		20	10
survqual.edit_status	"LEFT"	false	"STRING"		31	20
survqual.edit_procedure	"LEFT"	false	"STRING"		52	25
survqual.validity_check_version	"LEFT"	false	"STRING"		78	8
survqual.output_check_version	"LEFT"	false	"STRING"		87	8
survqual.edit_date	"FULL"	false	"DATE"		96	10
survqual.overall_survey_quality	"LEFT"	false	"STRING"		107	20
survqual.survey_recalc_accuracy	"LEFT"	false	"STRING"		128	10
survqual.quality_of_original_hardcopy	"LEFT"	false	"STRING"		139	20
WELLCOMM						
wellcomm.comment				size check only	9	71
WELLELEV						
wellelev.survey_ref_elev	"RIGHT"	false	"DEC"		9	8
wellelev.survey_elevation_reference	"LEFT"	false	"STRING"		18	3
wellelev.referenced_elevation_qualifier	"LEFT"	false	"STRING"		22	8

Tobin Map Data Products: DDSO Transfer Format - Full ASCII

wellelev.ground_elevation	"RIGHT"	false	"DEC"		31	8
wellelev.kb_height	"RIGHT"	true	"DEC"		40	6
wellelev.rtdf_to_kb_adjustment	"RIGHT"	true	"DEC"		47	6
wellelev.chf_height	"RIGHT"	true	"DEC"		54	6
wellelev.chf_to_kb_value	"RIGHT"	true	"DEC"		61	6
wellelev.water_depth	"RIGHT"	true	"DEC"		68	8
wellelev.chf_elev	"RIGHT"	true	"DEC"		77	8
wellelev.rt_elev	"RIGHT"	true	"DEC"		86	8
wellelev.rig_name	"LEFT"	true	"STRING"		95	20
wellelev.rig_owner_code	"LEFT"	true	"STRING"		116	10
WELLID01						
wellid01.uwi	"LEFT"	false	"STRING"		9	20
wellid01.state_assigning_permit_no	"FULL"	false	"STRING"		30	2
wellid01.permit_number	"LEFT"	true	"INT"		33	10
wellid01.permit_number_suffix	"LEFT"	true	"STRING"		44	3
wellid01.well_bore_drilled_seq_no	"RIGHT"	true	"INT"		48	3
wellid01.well_name	"LEFT"	true	"STRING"		52	25
wellid01.well_number	"LEFT"	true	"STRING"		78	10
wellid01.well_suffix	"LEFT"	true	"STRING"		89	10
wellid01.producing_field_name	"LEFT"	true	"STRING"		100	32
wellid01.completion_status	"LEFT"	true	"STRING"		133	7
wellid01.version_number	"LEFT"	true	"STRING"		141	8
wellid01.update_date	"FULL"	false	"INT"		150	8
WELLID01						
wellid02.wb_spud_date_qualifier	"LEFT"	true	"STRING"		9	3
wellid02.wb_spud_date	"FULL"	true	"INT"		13	8
wellid02.spud_flag	"LEFT"	true	"STRING"		22	4
wellid02.date_wb_reached_td_qualifier	"LEFT"	true	"STRING"		27	3
wellid02.date_wb_reached_td	"FULL"	true	"INT"		31	8
wellid02.well_total_depth	"RIGHT"	false	"INT"		40	5
wellid02.well_total_depth_qualifier	"LEFT"	true	"STRING"		46	5
wellid02.current_operator	"LEFT"	true	"STRING"		58	25

Tobin Map Data Products: DDSO Transfer Format - Full ASCII

wellid02.current_operator_code_source	"LEFT"	true	"STRING"		84	10
wellid02.current_operator_code	"LEFT"	true	"STRING"		95	10
wellid02.original_operator	"LEFT"	true	"STRING"		106	25
wellid02.original_operator_code_source	"LEFT"	true	"STRING"		132	10
wellid02.original_operator_code	"LEFT"	true	"STRING"		143	10
wellid02.td_ouom	"LEFT"	true	"STRING"			
WELLOC1						
wellloc1.surface_latitude	"RIGHT"	false	"DEC"		9	10
wellloc1.surface_longitude	"RIGHT"	false	"DEC"		20	11
wellloc1.coord_datum	"LEFT"	false	"STRING"		32	10
wellloc1.surf_loc_coordinate_source	"LEFT"	false	"STRING"		43	10
wellloc1.location_quality	"LEFT"	true	"STRING"		54	10
wellloc1.drillsite_name	"LEFT"	true	"STRING"		65	15
wellloc1.drillsite_slot	"LEFT"	true	"STRING"		81	10

NorthRef calculation C#:

```

if ((Srvruns1_AzimuthNorthType.Substring(0, 1) == "T") & (Datahdr4_NorthReference == "GRID ")) strGridType = "TrueToGrid";
if ((Srvruns1_AzimuthNorthType.Substring(0, 1) == "T") & (Datahdr4_NorthReference == "TRUE ")) strGridType = "TrueToTrue";
if ((Srvruns1_AzimuthNorthType.Substring(0, 1) == "G") & (Datahdr4_NorthReference == "TRUE ")) strGridType = "GridToTrue";
if ((Srvruns1_AzimuthNorthType.Substring(0, 1) == "G") & (Datahdr4_NorthReference == "GRID ")) strGridType = "GridToGrid";

```

When NorthRef is used in the REVD_RUN records, it uses the corresponding SRVRUNS1 Run Number in the above calculation.

The Substring command is taking the 1st letter of the string. IE: True = "T", "TA", "TI", and "TS".

The following record types are required:

- DATAHDR1 - required 1 time at beginning of each file
- DATAHDR2 - required 1 time at beginning of each file
- DATAHDR3 - required 1 time at beginning of each file
- DATAHDR4 - required 1 time at beginning of each file
- WELLID01 - Required on each API_12 well
- WELLID02 - Required on each API_12 well
- WELLOC1 - Required on each API_12 well
- WELLELEV - Required on each API_12 well
- SRVRUNS1 - Required on each API_12 well and each individual run (multiple)

Tobin Map Data Products: DDSO Transfer Format - Full ASCII

SRVRUNS2 - Required on each API_12 well and each individual run (multiple)

REVD_RUN - Required on each API_12 well and each individual run (multiple, relational to SRVRUNS1)

SURV_PTS - Required on each API_12 well and each survey point depth (multiple)

The following record types are optional:

WELLCOMM - populated when there are comments present (multiple)

Future record type requirements - No coding should be done on these future development records:

WELLOC2 - offshore wells

WELLOC5 - Township, Range and Section data – somewhere in the future we will implement this

SURVCOMM - Future development

SURVQUAL - Future development

Tobin Map Data Products: DDSO Transfer Format - Record A

Record A

Last Updated: 04/23/2008 by J McGrath

Column Name	Justification	Allow Blank	Data Type	Data Match	Starting Column	Length	Comments
reca.reca_API_No	"FULL"	false	"STRING"		7	14	NOTE: length is 12 or 14
reca.reca_Operator_Current	"LEFT"	false	"STRING"		23	25	
reca.reca_Well_Name_Original	"LEFT"	false	"STRING"		50	25	
reca.reca_Well_No_Suffix	"LEFT"	false	"STRING"		77	10	
reca.reca_Reference_Elevation	"RIGHT"	false	"STRING"		89	8	
reca.reca_Elevation_Reference	"LEFT"	false	"STRING"		99	3	
reca.reca_Surf_Loc_Latitude	"RIGHT"	false	"STRING"		104	10	
reca.reca_Surf_Loc_Longitude	"RIGHT"	false	"STRING"		116	10	
reca.reca_Well_Comp_Code_Initial	"LEFT"	false	"STRING"		128	7	
reca.reca_Well_TD	"RIGHT"	false	"INT"		137	10	
reca.reca_Start_Depth	"FULL"	false	"INT"		149	1	
reca.reca_End_Depth	"RIGHT"	false	"INT"		152	10	
reca.reca_Operator_Original	"LEFT"	false	"STRING"		164	25	
reca.reca_Field_Name	"LEFT"	false	"STRING"		191	32	
reca.reca_Lease_Name	"LEFT"	false	"STRING"		224	25	
reca.reca_State_Code	"LEFT"	false	"STRING"		251	2	
reca.reca_County	"LEFT"	false	"STRING"		255	20	

Tobin Map Data Products: DDSO Transfer Format - Record A

Tobin Map Data Products: DDSO Transfer Format - Record C

Record C

Last Updated: 04/23/2008 by J McGrath

Column Name	Justification	Allow Blank	Data Type	Data Match	Starting Column	Length	Comments
recc.recc_API_No	"FULL"	false	"STRING"		7	14	NOTE: length is 12 or 14
recc.recc_Survey_ID	"LEFT"	false	"STRING"		23	2	
recc.recc_P2_Run_Number	"RIGHT"	false	"STRING"		35	2	
recc.recc_Source	"LEFT"	false	"STRING"		38	4	
recc.recc_Depth_OBS_No	"RIGHT"	false	"STRING"		53	4	
recc.recc_Station_MD	"RIGHT"	false	"STRING"		58	8	
recc.recc_Inclination	"RIGHT"	false	"STRING"		67	6	
recc.recc_P2_Azimuth_Unproc	"RIGHT"	false	"STRING"		74	6	
recc.recc_Station_TVD	"RIGHT"	false	"STRING"		81	8	
recc.recc_P2_Station_TVDSS	"RIGHT"	false	"STRING"		90	9	
recc.recc_Azimuth	"RIGHT"	false	"STRING"		100	6	
recc.recc_Y_Offset	"RIGHT"	false	"STRING"		109	8	
recc.recc_NS_Direction	"LEFT"	false	"STRING"		119	1	
recc.recc_X_Offset	"RIGHT"	false	"STRING"		123	8	
recc.recc_EW_Direction	"LEFT"	false	"STRING"		133	1	
recc.recc_P2_Delta_Lat	"RIGHT"	false	"STRING"		137	10	
recc.recc_P2_Delta_Long	"RIGHT"	false	"STRING"		148	9	
recc.recc_Latitude	"RIGHT"	false	"STRING"		158	10	
recc.recc_Longitude	"RIGHT"	false	"STRING"		170	10	
recc.recc_P2_Closure_Dist	"RIGHT"	false	"STRING"		181	8	
recc.recc_P2_Closure_Dir	"RIGHT"	false	"STRING"		190	6	
recc.recc_Vertical_Section	"RIGHT"	false	"STRING"		197	8	
recc.recc_Dog_Leg_Severity	"RIGHT"	false	"STRING"		206	6	
recc.recc_Point_Type	"LEFT"	true	"STRING"		213	14	
recc.recc_P2_Survey_Type	"LEFT"	false	"STRING"		228	11	
recc.recc_Azimuth_OUOM	"LEFT"	false	"STRING"		240	7	
recc.recc_Inclination_OUOM	"LEFT"	false	"STRING"		249	7	

Tobin Map Data Products: DDSO Transfer Format - Record C

recc.recc_Station_MD_OUOM	"LEFT"	false	"STRING"		257	2	
recc.recc_Station_TVD_OUOM	"LEFT"	false	"STRING"		264	2	
recc.recc_Vertical_Section_OUOM	"LEFT"	false	"STRING"		271	2	
recc.recc_X_Offset_OUOM	"LEFT"	false	"STRING"		278	2	
recc.recc_Y_Offset_OUOM	"LEFT"	false	"STRING"		285	2	
recc.recc_P2_Station_TVDSS_OUOM	"LEFT"	false	"STRING"		292	2	
recc.recc_P2_Closure_Dist_OUOM	"LEFT"	false	"STRING"		299	2	
recc.recc_P2_Azimuth_Unproc_OUOM	"LEFT"	false	"STRING"		306	7	
recc.recc_Active_Ind	"LEFT"	false	"STRING"		314	1	

WCS - Well Coordinate Services

Last Updated: 04/23/2008 by J McGrath

Column Name	Justification	Allow Blank	Data Type	Data Match	Starting Column	Length	Comments
HEADER							
wcsheader.State_Code	"LEFT"	false	"STRING"		1	2	
wcsheader.County_Code	"LEFT"	false	"STRING"		3	3	
wcsheader.API_No	"LEFT"	false	"STRING"		6	5	
wcsheader.Bottom_Hole	"RIGHT"	false	"STRING"		11	2	
TYPE 1 - DELETE RECORD							
wcs1.Maint_Code	"LEFT"	true	"STRING"		13	1	
wcs1.Comment_1	"LEFT"	false	"STRING"		14	30	
wcs1.Lease_Name	"LEFT"	false	"STRING"		44	30	
wcs1.Well_No	"LEFT"	false	"STRING"		74	6	
wcs1.Area_Field	"LEFT"	false	"STRING"		80	30	
wcs1.Last_Update_Date	"FULL"	false	"INT"		110	6	
TYPE 2 - NORMAL WELL							
wcs2.Maint_Code	"LEFT"	true	"STRING"		13	1	
wcs2.Operator_Name	"LEFT"	false	"STRING"		14	30	
wcs2.Lease_Name	"LEFT"	false	"STRING"		44	30	
wcs2.Well_No	"LEFT"	false	"STRING"		74	6	
wcs2.Area_Field	"LEFT"	false	"STRING"		80	30	
wcs2.Last_Update_Date	"FULL"	false	"INT"		110	6	
wcs2.Area_Tract	"LEFT"	false	"STRING"		116	3	
wcs2.Survey_Flag	"LEFT"	true	"STRING"		119	1	
wcs2.Survey_Format				see WCS Format	120	19	
wcs2.Completion_Date	"FULL"	false	"INT"		139	6	
wcs2.Completion_Depth	"FULL"	false	"INT"		145	5	
wcs2.Well_Final_Status	"LEFT"	false	"STRING"		150	3	
wcs2.Doc_Source_Code	"FULL"	false	"INT"		153	1	

Tobin Map Data Products: DDSO Transfer Format WCS - Well Coordinate Services

wcs2.Meta_Data_Code	"FULL"	false	"STRING"		154	1	
wcs2.Tobin_Grid	"LEFT"	false	"STRING"		155	8	
wcs2.State_Plane_Zone	"LEFT"	false	"STRING"		163	2	
wcs2.X_Coord	"FULL"	false	"STRING"		165	10	
wcs2.Y_Coord	"FULL"	false	"STRING"		175	10	
wcs2.Latitude	"FULL"	false	"INT"		185	7	
wcs2.Longitude	"FULL"	false	"INT"		192	8	
wcs2.Elevation_Type	"LEFT"	true	"STRING"		200	1	
wcs2.Elevation_Value	"FULL"	false	"INT"		201	5	
TYPE 3 - DIRECTIONALLY DRILLED WELL							
wcs2.Maint_Code	"LEFT"	true	"STRING"		13	1	Same as Type 2
wcs2.Operator_Name	"LEFT"	false	"STRING"		14	30	Same as Type 2
wcs2.Lease_Name	"LEFT"	false	"STRING"		44	30	Same as Type 2
wcs2.Well_No	"LEFT"	false	"STRING"		74	6	Same as Type 2
wcs2.Area_Field	"LEFT"	false	"STRING"		80	30	Same as Type 2
wcs2.Last_Update_Date	"FULL"	false	"INT"		110	6	Same as Type 2
wcs2.Area_Tract	"LEFT"	false	"STRING"		116	3	Same as Type 2
wcs2.Survey_Flag	"LEFT"	true	"STRING"		119	1	Same as Type 2
wcs2.Survey_Format				see WCS Format	120	19	Same as Type 2
wcs2.Completion_Date	"FULL"	false	"INT"		139	6	Same as Type 2
wcs2.Completion_Depth	"FULL"	false	"INT"		145	5	Same as Type 2
wcs2.Well_Final_Status	"LEFT"	false	"STRING"		150	3	Same as Type 2
wcs2.Doc_Source_Code	"FULL"	false	"INT"		153	1	Same as Type 2
wcs2.Meta_Data_Code	"FULL"	false	"STRING"		154	1	Same as Type 2
wcs2.Tobin_Grid	"LEFT"	false	"STRING"		155	8	Same as Type 2
wcs2.State_Plane_Zone	"LEFT"	false	"STRING"		163	2	Same as Type 2
wcs2.X_Coord	"FULL"	false	"STRING"		165	10	Same as Type 2
wcs2.Y_Coord	"FULL"	false	"STRING"		175	10	Same as Type 2
wcs2.Latitude	"FULL"	false	"INT"		185	7	Same as Type 2
wcs2.Longitude	"FULL"	false	"INT"		192	8	Same as Type 2
wcs2.Elevation_Type	"LEFT"	true	"STRING"		200	1	Same as Type 2
wcs2.Elevation_Value	"FULL"	false	"INT"		201	5	Same as Type 2
wcs3.Area_Tract_2	"FULL"	false	"STRING"		206	3	

Tobin Map Data Products: DDSO Transfer Format WCS - Well Coordinate Services

wcs3.Survey_Flag_2	"LEFT"	false	"STRING"		209	1
wcs3.Survey_Format				see WCS Format	210	19
wcs3.Doc_Source_Code_2	"LEFT"	false	"STRING"		229	1
wcs3.Meta_Data_2	"RIGHT"	false	"STRING"		230	1
wcs3.Tobin_Grid_2	"LEFT"	false	"STRING"		231	8
wcs3.State_Plane_Zone_2	"RIGHT"	false	"STRING"		239	2
wcs3.X_Coord_2	"RIGHT"	false	"STRING"		241	10
wcs3.Y_Coord_2	"LEFT"	false	"STRING"		251	10
wcs3.Latitude_2	"RIGHT"	false	"INT"		261	7
wcs3.Longitude_2	"FULL"	false	"INT"		268	8
TYPE 4 - LOCATION CALLS						
wcs4.Location_Calls	"FULL"	false	"STRING"		13	1
wcs4.First_Footage_Calls	"LEFT"	false	"STRING"		14	5
wcs4.First_Direction	"LEFT"	true	"STRING"	"FNL" , "FSL" , "FEL" , "FWL" , "FNEL" , "FNWL" , "FSEL" , "FSWL"	19	4
wcs4.Second_Footage_Calls	"LEFT"	false	"STRING"		23	5
wcs4.Second_Direction	"LEFT"	true	"STRING"	"FNL" , "FSL" , "FEL" , "FWL" , "FNEL" , "FNWL" , "FSEL" , "FSWL"	28	4
wcs4.True_Vertical_Depth	"LEFT"	false	"STRING"		32	5
wcs4.Additional_Info	"LEFT"	false	"STRING"		37	70

WCS - Well Coordinate Services - Format

Last Updated: 04/23/2008 by J McGrath

Column Name	Justification	Allow Blank	Data Type	Data Match	Comments
Survey Flag BLANK & Section Flag "S" - Texas Survey					
Col_1_7				blank	
Col_9_13	"RIGHT"	false	"STRING"		
Col_14				"A"	
Col_15_19	"RIGHT"	false	"STRING"		
Survey Flag BLANK & Section Flag BLANK - Texas Survey					
Col_1_13				blank	
Col_14				"A"	
Col_15_19	"RIGHT"	false	"STRING"		
Survey Flag B - Block Survey Format					
Col_1				blank	
Col_2_7	"RIGHT"	false	"STRING"		
Col_8				"S" or blank	
Col_9_13	"RIGHT"	false	"STRING"	if Col_8 = "S" then cannot be blank	
Col_14_19				blank	
Survey Flag C - Carter Township-Range Format					
Col_1_7	"RIGHT"	false	"STRING"		
Col_8				"S"	
Col_9_13	"RIGHT"	false	"STRING"		
Col_14_19				blank	
Survey Flag J - Township-Range (Jeffersonian survey) applied to outside Gulf Coast area					
Col_1_19	"LEFT"	false	"STRING"		
Survey Flag T - Township-Range (Jeffersonian survey) applied to Gulf Coast area only					

Tobin Map Data Products: DDSO Transfer Format WCS - Well Coordinate Services Format

Col_1_7	"LEFT"	false	"STRING"		
Col_8				"S"	
Col_14_19				blank	

Tobin Map Data Products: DDSO Transfer Format WCS - Well Coordinate Services Format

Tobin Map Data Products: DDSO Transfer Format WCS - Well Coordinate Services Format

Definitions

Justification:

LEFT = No spaces at the beginning, spaces at the end ("abc ")

RIGHT = Spaces at the beginning are allowed, but no spaces at the end (" abc")

FULL = No spaces allowed at the beginning or end ("abc")

Allow blank:

true = blanks are allowed; if the entire field is blank then no error will be given

false = blanks are not allowed; if the entire field is blank then an error will be given

Data Type:

STRING = Any character, alphabetic, numeric, special characters ("abc 123\$%")

INT = Numeric characters only (no spaces) ("0123")

DEC = Numeric characters with a decimal ("123.00")

DATE = Format of mm/dd/yy, mm/dd/yyyy