



Standard Bit Record

Phone 940-627-6260

Document Number

Tool Pushers

Company
Representatives

TED

Smith
Representative

ROBERT WARD

JA000065

PAGE 1 of 3

OPERATOR CHESAPEAKE ENERGY		CONTRACTOR CACTUS DRILLING		RIG NO. 119	BLOCK	SUB-BLOCK	LEASE/WELL NAME EAST GODLEY		WELL # 3-H	WELL DEPTH (ft) / EST DEPTH (ft) 10434 11500			
COUNTRY UNITED STATES	STATE/PROVINCE TEXAS	COUNTY/DISTRICT JOHNSON		QOSEC	QSEC/LSO	SECTION	TOWNSHIP	RANGE	FIELD	API WELL # - - - -			
LEGAL		RIG TYPE LAND	DRILL PIPE	SIZE (in) 4.5	WT (lbs/ft) 16.6		API WELL #		SPUD DATE 01-Aug-2005				
CONTRACT TYPE DAYWORK		RIG ELEVATION/ (ft) WATER DEPTH (ft)	WELL CATEGORY HORIZONTAL	TOOL JOINT	SIZE (in) 6.25	TYPE XH		UTM	LAT/LONG	UNDER SURF			
FOOTAGE CONTRACT		ONSHORE	WELL TARGET GAS	DRILL NO	NO	O.D.	I.D.	LENGTH	PUMP NO 1.	MAKE GARDNER-DENVER PZ9	MODEL PZ9	LINER	INT DATE
TO DEPTH (ft)		PARTIAL Well	WELL TYPE DEVELOPMENT	DRILL NO	NO	O.D.	I.D.	LENGTH	PUMP NO 2.	MAKE GARDNER-DENVER PZ9	MODEL PZ9	LINER	TD DATE 16-Aug-2005

Well Comments:

BIT NO.	BIT SIZE (Inches)	BIT MFR	BIT TYPE	SERIAL NUMBER	JETS (32nds)	DEPTH OUT (ft)	DRILLED (ft)	HOURS	ROP (ft/hr)	MOTOR RPM	TOTAL RPM	WOB (klbs)	D R I V E	DEV IN	MUD / HYDRAULICS					CUTTING STRUCTURE				REMARKS	FORMATIONS/ RUN DATE							
															TYPE	Flo-Mud (cpm)	Press (psi)	PV (mPas)	HSI	I	O	D	L			1	2	3	G	O	R	
1	12.25	HTC	MX09	106767	16. x 3	1303	1263	18.5	68.3		100	40.0			WATER	442.00	1400		0.5	2	4	BT	A	E	E	E	IN	NO	TD	01-Aug-2005		
Comments: BIT=SS=DC=HWDP=JAR																																
2	8.75	STC	ER7203VPS	PC0832	16. x 3	3056	1753	20.5	85.5	120	190	30.0	M		WATER	514.00	1900		2.9	2	2	WT	A	E	E	E	IN	NO	PR	03-Aug-2005		
			7203	517X				39.0		120	195	35.0		.4	8.40		28		624													
						4387	3084	44.0	70.1	120	180	38.0			WATER	514.00	2200		3.0													
								62.5		120	185	40.0		1.5	8.50		27		631													
						4437	3134	45.5	68.9	120	180	38.0			WATER	514.00	2200		3.0													
								64.0		120	185	40.0		1.5	8.50		27		631													
Comments: BIT=MM=IB=UBHO=MWD=HWDP=JAR=HWDP																																
3	8.75	STC	ER7203V	PC0845	16. x 3	5005	568	16.5	34.4	120	180	40.0	M		WATER	568.00	2850		4.0	5	8	FC	A	E	E	E	3	BT	PR	05-Aug-2005		
			7203	517X				80.5		120	188	42.0		.8	8.40		27		762													
						5555	1118	36.0	31.1	120	188	40.0			WATER	568.00	2950		4.4													
								100.0		120	190	42.0		.3	9.30		29		843													
Comments: BIT=MM=IB=UBHO=MWD=HWDP=JAR=HWDP																																
4	8.75	HTC	GX22S	407788	18. x 3	5959	404	15.0	26.9	120	180	40.0	M		WATER	568.00	2900	12.0	2.8	6	8	BT	A	F	F	F	3	FC	PR	07-Aug-2005		
				527X				115.0		120	180	42.0		.8	9.50		29	20	681													
Comments: SAME=BHA AS BITS # 2&3 LOG WELL AT 5959																																



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OPERATOR		CONTRACTOR		RIG NO.	BLOCK	SUB-BLOCK	LEASE/WELL NAME		WELL #	WELL DEPTH (ft) / EST DEPTH (ft)																								
CHESAPEAKE ENERGY		CACTUS DRILLING		119			EAST GODLEY		3-H	10434	11500																							
COUNTRY		STATE/PROVINCE		COUNTY/DISTRICT		QQSEC	QSEC/LSD	SECTION	TOWNSHIP	RANGE	FIELD																							
UNITED STATES		TEXAS		JOHNSON																														
BIT NO.	BIT SIZE (Inches)	BIT MFR	BIT TYPE	SERIAL NUMBER	JETS (32nds)	DEPTH OUT (ft)	DRILLED (ft)	HOURS	ROP (ft/hr)	MOTOR RPM LO	TOTAL RPM LO	WOB (klbs) LO	D R I V E	DEV IN	MUD / HYDRAULICS					CUTTING STRUCTURE				BEARING			REMARKS			FORMATIONS/				
															TYPE	Flo-Mud (gpm)	Press (psi)	PV (mPas)	HSI	I	O	D	L	1	2	3	G	O	R	WT (ppg)	Flo-Air (cu ft/hr)	F.Vis	YP (lb/100ft2)	Impact (lbs)
RUN CD	Reamer MFR	ER Number	IADC CODE	TFA (in2)	TVD OUT (ft)	CUM HRS	On Bot (ft/hr)	HI	HI	HI	HI	HI	OUT	WT (ppg)	Flo-Air (cu ft/hr)	F.Vis	YP (lb/100ft2)	Impact (lbs)								WT	A	E	E	E	IN	NO	BHA	
5	8.75	SEC	SEB1427		16. x 3	6190	231	7.5	30.8	120	180	40.0	M		WATER	500.00	2800	13.0	3.1	2	2	WT	A	E	E	E	IN	NO	BHA	09-Aug-2005				
				527X				122.5		120	180	45.0		.5	9.50		50	14	668								WT	A	E	E	E	IN	NO	BHA
Comments: SAME=BHA																																		
6	8.75	HTC	GX22S	309789	18. x 3	6526	336	23.0	14.6	120	120	28.0	M		WATER	488.00	2500	12.0	1.7	3	3	FC	A	E	E	E	1	NO	BHA	10-Aug-2005				
				527X				145.5		120	120	30.0		42.2	9.20		48	12	487								WT	A	E	E	E	1	NO	BHA
						6880	690	49.5	13.9	120	120	50.0			WATER	488.00	2200	10.0	1.7								WT	A	E	E	E	1	NO	BHA
								172.0		120	120	52.0		82.9	9.30		40	11	492								WT	A	E	E	E	1	NO	BHA
Comments: BIT=MM=BJ=DC=UBHOMWD=DC=DCM=17-DP==30-HWDP=JAR=8-HWDP																																		
7	8.75	GEO	M72VPX	SCA183	22. x 5	7481	601	9.5	63.3	120	180	15.0	M		WATER	470.00	2850	24.0	0.3	0	0	WT	A	X	X	X	IN	NO	TD	13-Aug-2005				
			20009	M322				181.5		120	180	15.0		89.6	9.20		59	20	181								WT	A	X	X	X	IN	NO	TD
						9047	2167	32.0	67.7	120	180	15.0			WATER	470.00	2900	27.0	0.3								WT	A	X	X	X	IN	NO	TD
								204.0		120	180	16.0		90.6	9.40		60	23	185								WT	A	X	X	X	IN	NO	TD
						10103	3223	51.5	62.6	120	180	16.0			WATER	470.00	2950	29.0	0.3								WT	A	X	X	X	IN	NO	TD
								223.5		120	180	17.0		91.7	9.60		65	22	189								WT	A	X	X	X	IN	NO	TD
Comments:																																		



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OPERATOR CHESAPEAKE ENERGY		CONTRACTOR CACTUS DRILLING		RIG NO. 119	BLOCK	SUB-BLOCK	LEASE/WELL NAME EAST GODLEY		WELL # 3-H	WELL DEPTH (ft) / EST DEPTH (ft) 10434 11500																				
COUNTRY UNITED STATES		STATE/PROVINCE TEXAS		COUNTY/DISTRICT JOHNSON	QQSEC	QSEC/LSD	SECTION	TOWNSHIP	RANGE	FIELD																				
BIT NO.	BIT SIZE (Inches)	BIT MFR	BIT TYPE	SERIAL NUMBER	JETS (32nds)	DEPTH OUT (ft)	DRILLED (ft)	HOURS	ROP (ft/hr)	MOTOR RPM	TOTAL RPM	WOB (klbs)	D R I V E	DEV IN	MUD / HYDRAULICS				CUTTING STRUCTURE				BEARING			REMARKS			FORMATIONS/	
RUN CD		Reamer MFR	ER Number	IADC CODE	TFA (in2)	TVD OUT (ft)		CUM HRS	On Bot (ft/hr)	LO	LO	LO		OUT	TYPE	Flo-Mud (gpm)	Press (psi)	PV (mPas)	HSI	I	O	D	L	1	2	3	G	O	R	RUN DATE
						10434	3554	57.0	62.4	120	180	20.0			WATER	470.00	2950	28.0	0.3											
								229.0		120	180	20.0		89.5	9.60		52	24	189											
Comments: BIT=MM=BS=DC=UBHO=MWD=DC=DCM=122-DP=30-HWDP=30-HWDP=JAR=8-HWDP																														

16-Aug-2005

EXPLANATION OF THE IADC DULL BIT GRADING SYSTEM

TOOTH CONDITION I = All inner rows, not cutting gage. O = Gage row, all teeth cutting gage of hole. Measure of total cutting structure reduction due to loss, breakage and wear. 0 = No loss, wear or breakage. 8 = All lost, worn or broken.	DULL CHARACTERISTICS D = MAJOR DULL CHAR. O = OTHER DULL CHAR. BC = Broken cone BF = Bond failure BU = Balled Up CC = Cracked cone CD = Cone dragged CI = Cone interference CR = Cored CT = Chipped teeth ER = Erosion FC = Flat crested wear HC = Heat checking JD = Junk damage LC = Lost cone LN = Lost Nozzle LT = Lost teeth/cutters OC = Off center wear PB = Pinched bit PN = Plugged nozzle RG = Rounded gage RO = Ring out SD = Shirtail damage SS = Self-sharpening wear TR = Tracking WO = Washout on bit WT = Worn teeth/cutters NO = No major/other dull Characteristics SHOW CONE NUMBER(S) UNDER LOCATION	DULL CODE DEFINITIONS L = Location codes ROLLER CONE N - Nose rows M - Middle rows G - Gage rows A - All rows FIXED CUTTER C - Cone N - Nose T - Taper S - Shoulder G - Gage A - All areas	B = BEARING DULL CODE Grade non-sealed bearings based on estimate of remaining life. 0 = No life used 8 = All life used SEALED BEARINGS E - Seals effective F - Seals failed N - Not able to grade X - Fixed cutter bits G = GAGE WEAR I - In gage Measure in 1/16 inch undergage.	R = REASON PULLED or RUN TERMINATED BHA - Chg bottom hole assy. DMF - Downhole motor failure DSF - Drilling string failure DST - Drill stem test DTF - Downhole tool failure CP - Core point DP - Drill plug FM - Formation Change HP - Hole problems HR - Hours on bit LIH - Left in hole LOG - Run logs PP - Pump pressure PR - Penetration rate RIG - Rig repairs TD - Total depth/CGS depth TW - Twist off TQ - Torque WC - Weather conditions WO - Washout drill string	CUTTING STRUCTURE				B	G	REMARKS	
					Inner Rows (I)	Outer Rows (O)	Dull Char (D)	Location (L)	Bearing Seal (B)	Gage (G)	Other Dull (O)	Reason Pulled (R)

09/27/2005

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Tool Pushers **STEPHEN BRACKEN**
STEVE BRIDGESCompany **MIKE BARTON**
RepresentativesSmith Representative **ROBERT WARD****JR001226**

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OPERATOR TSAR OPERATING		CONTRACTOR PIONEER DRLG		RIG NO. 05	BLOCK	SUB-BLOCK	LEASE/WELL NAME MUSTANG CREEK		WELL # 5H
COUNTRY UNITED STATES	STATE/PROVINCE TEXAS	COUNTY/DISTRICT JOHNSON	QOSEC	QSEC/LSO	SECTION	TOWNSHIP 21 N	RANGE 20 E	FIELD NEWARK EAS	WELL DEPTH (ft) / EST DEPTH (ft) 11307 6550
LEGAL MENDOZA URBAI 542			RIG TYPE LAND	DRILL PIPE	SIZE (in)	WT (lbs/ft)		API WELL # 42-251-30455-00-00	SPUD DATE 10-Aug-2005
CONTRACT TYPE DAYWORK		RIG ELEVATION/ (ft) WATER DEPTH (ft)	WELL CATEGORY VERTICAL	TOOL JOINT	SIZE (in)	TYPE		UTM	LAT/LONG 32.52278N / 97.55167W
FOOTAGE CONTRACT TO 11,000 DEPTH (ft)		ONSHORE ___Tight Hole	WELL TARGET GAS	DRILL COLLAR	NO	O.D.	I.D.	LENGTH	PUMP MAKE NO 1.
		COMPLETE Rec. ___ReEntry	WELL TYPE DEVELOPMENT	DRILL COLLAR	NO	O.D.	I.D.	LENGTH	PUMP MAKE NO 2.

Well **5.3 MI NW GODLEY, T**
Comments:

BIT NO.	BIT SIZE (Inches)	BIT MFR	BIT TYPE	SERIAL NUMBER	JETS (32nds)		DEPTH OUT (ft)	DRILLED (ft)	HOURS	ROP (ft/hr)	MOTOR RPM	TOTAL RPM	WOB (klbs)	D R I V E	DEV IN	MUD / HYDRAULICS					CUTTING STRUCTURE				BEARING			REMARKS			FORMATIONS/			
					Reamer MFR	ER Number										IADC CODE	TFA (in2)	TVD OUT (ft)	CUM HRS	On Bot (ft/hr)	HI	HI	HI	TYPE	Flo-Mud (cpm)	Press (psi)	PV (mPas)	HSI	I	O		D	L	1
1	12.25	HTC	MX09	6013092	16. x 1	16. x 1	1125	1125	12.0	93.8	120	120	5.0			WATER	720.00	1800		3.9	2	2	WT	A	E	E	E	IN	NO	TD	11-Aug-2005			
Comments: BIT>SS>2-8"DC. Spud @ 1200 on 8/10. Set Casing.																																		
2	8.75	STC	ER7022VPS	PC1633	97 - 16.	97 - 16.	2161	1036	20.0	51.8	120	180	30.0	S		WATER	450.00	1600		17.5											DMF	13-Aug-2005		
Comments: BIT>MM>IBS>UBHO>MWD>FLEXNMDC>SS=1459.34'																																		
							3372	2247	42.0	53.5	120	180	42.0			WATER	401.00	1800		13.5												14-Aug-2005		
									54.0		130	190	45.0		.6	9.00		26		1220														
							3616	2491	48.0	51.9	120	180	42.0			WATER	401.00	1800		13.5														
Comments: BIT>MM>IBS>UBHO>MWD>FLEXNMDC>SS=1459.34'																																		
									60.0		130	190	45.0		.6	9.00		26		1220														
3	8.75	HTC	GX22S	6038005			4165	549	7.5	73.2	110	170	42.0	S		WATER	510.00	2550													PR	15-Aug-2005		
Comments: BIT>MM>IBS>UBHO>MWD>FLEXNMDC>SS=1459.34'																																		
							5221	1605	31.0	51.8	110	170	38.0			WATER	510.00	2550																
									91.0		120	180	42.0		1.8	9.10		28																
							5598	1982	48.0	41.3	110	170	42.0			WATER	510.00	2750																
Comments: BIT>MM>IBS>UBHO>MWD>FLEXNMDC>SS=1459.34'																																		
									108.0		120	180	45.0		.6	8.70		27																



Tool Pushers STEPHEN BRACKEN
STEVE BRIDGES

Company MIKE BARTON
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Smith ROBERT WARD
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OPERATOR				CONTRACTOR				RIG NO.		BLOCK		SUB-BLOCK		LEASE/WELL NAME		WELL #		WELL DEPTH (ft) / EST DEPTH (ft)																	
TSAR OPERATING				PIONEER DRLG				05						MUSTANG CREEK		5H		11307 6550																	
COUNTRY		STATE/PROVINCE		COUNTY/DISTRICT		QQSEC		QSEC/LSD		SECTION		TOWNSHIP		RANGE		FIELD																			
UNITED STATES		TEXAS		JOHNSON								21 N		20 E		NEWARK EAS																			
BIT NO.	BIT SIZE (Inches)	BIT MFR	BIT TYPE	SERIAL NUMBER	JETS (32nds)		DEPTH OUT (ft)	DRILLED (ft)	HOURS	ROP (ft/hr)	MOTOR RPM	TOTAL RPM	WOB (klbs)	D R I V E	DEV IN	MUD / HYDRAULICS					CUTTING STRUCTURE				BEARING			REMARKS			FORMATIONS/ RUN DATE				
					TFA (in2)											TVD OUT (ft)	CUM HRS	On Bot (ft/hr)	HI	HI	HI	TYPE	Flo-Mud (gpm)	Press (psi)	PV (mPas)	HSI	I	O	D	L		1	2	3	G
RUN CD		Reamer MFR	ER Number	IADC CODE											OUT	WT (ppg)	Flo-Air (cu ft/hr)	F.Vis	YP (lb/100ft2)	Impact (lbs)															
4	8.75	STC	FH23VPS	PC2430	97 - 18.	97 - 18.	6285	270	18.0	15.0	110	110	25.0	S		WATER	510.00	2650	12.0		2	2	WT	A	E	E	E	IN NO BHA	17-Aug-2005						
									135.0		120	120	30.0		24.5	9.10		50	13																
							6448	433	32.0	13.5	110	110	25.0			WATER	510.00	2650	12.0												20-Aug-2005				
									149.0		120	120	30.0		24.5	9.10		50	13																
							6573	558	38.5	14.5	110	110	25.0			WATER	510.00	2650	12.0																
									155.5		120	120	30.0		24.5	9.10		50	13																
Comments: BIT>MM>IBS>UBHO>MWD>FLEXNMDC>SS=1459.34'. TIH 8/18.																																			
5	8.75	STC	FH23VPS	PC3527			6735	162	7.0	23.1	110	110	40.0	S		WATER	510.00	2500	15.0		1	1	WT	A	E	E	E	IN NO FM	21-Aug-2005						
									162.5		120	120	45.0		56.4	9.10		50	19																
Comments: BIT>MM>IBS>UBHO>MWD>FLEXNMDC>SS=1459.34'.																																			
6	8.75	GEO	MGR75BHPX	JT9097	22. x 7		6857	122	4.0	30.5	110	110	10.0	S		WATER	510.00	2350	15.0	0.2	1	2	CT	GS	X	X	X	IN WT DTF	22-Aug-2005						
									166.5		120	120	20.0			9.10		55	21	151															
							8175	1440	27.0	53.3	110	110	12.0			WATER	510.00	2600	16.0	0.2															
									189.5		120	180	15.0		90.0	9.30		50	16	154															
							8500	1765	33.0	53.5	110	110	12.0			WATER	510.00	2900	10.0	0.2															
									195.5		120	180	15.0		89.4	9.20		47	13	152															
							8913	2178	39.0	55.8	110	110	12.0			WATER	510.00	2900	10.0	0.2															
									201.5		120	180	15.0		92.5	9.20		47	13	152															
Comments: BIT>MM>IBS>UBHO>MWD>FLEXNMDC>SS=1459.34'.																																			



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STEVE BRIDGES

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OPERATOR TSAR OPERATING		CONTRACTOR PIONEER DRLG		RIG NO. 05	BLOCK	SUB-BLOCK	LEASE/WELL NAME MUSTANG CREEK		WELL # 5H	WELL DEPTH (ft) / EST DEPTH (ft) 11307 6550																					
COUNTRY UNITED STATES		STATE/PROVINCE TEXAS		COUNTY/DISTRICT JOHNSON		QQSEC	QSEC/LSD	SECTION	TOWNSHIP 21 N	RANGE 20 E	FIELD NEWARK EAS																				
BIT NO.	BIT SIZE (Inches)	BIT MFR	BIT TYPE	SERIAL NUMBER	JETS (32nds)	DEPTH OUT (ft)	DRILLED (ft)	HOURS	ROP (ft/hr)	MOTOR RPM LO	TOTAL RPM LO	WOB (klbs) LO	D R I V E	DEV IN	MUD / HYDRAULICS				CUTTING STRUCTURE			BEARING			REMARKS			FORMATIONS/			
RUN CD		Reamer MFR	ER Number	IADC CODE	TFA (in2)	TVD OUT (ft)		CUM HRS	On Bot (ft/hr)	HI	HI	HI		OUT	TYPE	Flo-Mud (gpm)	Press (psi)	PV (mPas)	HSI	I	O	D	L	1	2	3	G	O	R	RUN DATE	
7	8.75	GEO	M75BHLPX	JW0619	22. x 7	8940	27	.5	54.0	120	120	10.0	S		WATER	510.00	2900	11.0	0.2	2	3	WT	A	X	X	X	IN	CT	TD		
			20095	PDC				202.0		130	190	15.0			9.10		43	12	151											25-Aug-2005	
						10106	1193	23.0	51.9	120	120	10.0			WATER	510.00	2900	11.0	0.2												
								224.5		130	190	15.0		91.4	9.30		50	12	154											26-Aug-2005	
						11307	2394	41.5	57.7	120	120	10.0			WATER	510.00	2900	15.0	0.2												
								243.0		130	190	15.0		90.5	9.30		51	18	154											27-Aug-2005	

Comments: BIT>MM>IBS>UBHO>MWD>FLEXNMDC>SS=1459.34'. TD @ 0400 on 8/27. Set Casing.

EXPLANATION OF THE IADC DULL BIT GRADING SYSTEM

TOOTH CONDITION I = All inner rows, not cutting gage. O = Gage row, all teeth cutting gage of hole. Measure of total cutting structure reduction due to loss, breakage and wear. 0 = No loss, wear or breakage. 8 = All lost, worn or broken.	DULL CHARACTERISTICS D = MAJOR DULL CHAR. O = OTHER DULL CHAR. BC = Broken cone BF = Bond failure BT = Broken teeth/cutters BU = Balled Up CC = Cracked cone CD = Cone dragged CI = Cone interference CR = Cored CT = Chipped teeth ER = Erosion FC = Flat crested wear HC = Heat checking JD = Junk damage LC = Lost cone LN = Lost Nozzle LT = Lost teeth/cutters OC = Off center wear PB = Pinched bit PN = Plugged nozzle RG = Rounded gage RO = Ring out SD = Shirrtail damage SS = Self-sharpening wear TR = Tracking WO = Washout on bit WT = Worn teeth/cutters NO = No major/other dull Characteristics SHOW CONE NUMBER(S) UNDER LOCATION	DULL CODE DEFINITIONS L = Location codes ROLLER CONE N - Nose rows M - Middle rows G - Gage rows A - All rows FIXED CUTTER C - Cone N - Nose T - Taper S - Shoulder G - Gage A - All areas	B = BEARING DULL CODE Grade non-sealed bearings based on estimate of remaining life. 0 = No life used 8 = All life used SEALED BEARINGS E - Seals effective F - Seals failed N - Not able to grade X - Fixed cutter bits G = GAGE WEAR I - In gage Measure in 1/16 inch undergage.	R = REASON PULLED or RUN TERMINATED BHA - Chg bottom hole assy. DMF - Downhole motor failure DST - Drilling string failure DST - Drill stem test DTF - Downhole tool failure CM - Condition mud CP - Core point DP - Drill plug FM - Formation Change HP - Hole problems HR - Hours on bit. LIH - Left in hole LOG - Run logs PP - Pump pressure PR - Penetration rate RIG - Rig repairs TD - Total depth/CGS depth TW - Twist off TQ - Torque WC - Weather conditions WO - Washout drill string	CUTTING STRUCTURE				B	G	REMARKS	
					Inner Rows (I)	Outer Rows (O)	Dull Char (D)	Location (L)	Bearing Seal (B)	Gage (G)	Other Dull (O)	Reason Pulled (R)