


<div><div><div>MERCURY</div><div>OPERATING, LLC</div></div></div>										DATE: 10/4/2018						
API: 42-003-47868																
LEASE & WELL NUMBER ARCO UNIVERSITY 213 #4					FIELD FULLERTON		AFE DOOO61		CONTRACTOR & RIG NUMBER DOUBLE K #5							
PRESENT OPERATION DAILY DRILLING COST					FOOTAGE		HOURS		ROD		SPUD DATE		DAYS		TVD DEPTH MD	
CASING O.D., WT & TVD / MD					LINER O.D.; WT; TOP & SHOE DEPTH					FIT		RIG DT / CUM DT		PROJECTED TVD / MD 4,640		
												0 6		NEXT BOP TEST DATE		
												MISCELLANEOUS				
BRIEF DESCRIPTION OF OPERATIONS WAITING ON TRUCKS																
24-Hr Forecast: PREPARE FOR MOVE MOVE WHAT WE CAN WITH LITTLE FORKLIFT																
BIT INFORMATION																
No size Mfg. Serial number Type Jets Out Footage Hours ROP Wt RPM T B G Condition																
1 12.25 PDCLOGIC 10547 PLD616D6 6-14'S																
2 12.25 PDCLOGIC 10547 PLD616D6 6-14'S																
3 12.25 PDCLOGIC 10547 PLD616D6 6-14'S																
PUMP																
NO. MODEL LINER SPM PSI GPM AV DP AV DC BBLs /STK STKS SLOW PUMP PSI SHAKER SCREENS PU STRING WEIGHT SO ROT AMPS TORQUE FT/LBS																
1 BRIDGES 6 75 0																
2 BRIDGES 6 75 0																
3 BRIDGES 6 75 0																
IN MUD PROPERTIES DAILY MUD COST \$0 TOTAL MUD COST \$1,500																
0 DEPTH WT VIS PV/YP GELS API HTWL MBT SOLIDS Pm %LGS pH PPMf Cake NaCl																
OUT MUD PROPERTIES																
TIME DEPTH WT VIS PV/YP GELS API HTWL MBT SOLIDS Pm %LGS pH PPMf Ca Cl																
DAILY MUD ADDITIVES																
DIRECTIONAL SURVEYS																
M. DEPTH ANGLE DRIFT TVD VIS DS M. DEPTH ANGLE DRIFT TVD VIS DS																
FROM TO HOURS 24 HOUR OPERATIONS SUMMARY																
06:00 06:00 24.0 RIG DOWN MOVE WHAT WE CAN WAIT ON TRUCKS																
BHA 1																
TOOL LENGTH TOTAL																
12.25 BIT																
SHOCK SUB																
8"DC																
REAMER																
2-8"DCS																
XO																
0.00																
Total: 24.0 Safety Topic: RIGGING DOWN CLEANING																
CONSUMABLES																
BARITE Sax																
CEMENT Sax																
GEL Sax																
FUEL Bbl																
DRILL WATER Bbl																
POT WATER Bbl																
MAN HRS 0																
TOTAL ON BOARD TOTAL MAN HRS 0																
WIND SEAS WORK BOAT CREW BOAT FUEL RECEIVED																
DP Diameter: DC Diameter: 0.00																
ACCIDENTS N/A																
POLLUTION N/A																
PREV. TOTAL \$0																
DAILY COST \$84,700																
CUMM. TOTAL \$84,700																
RIG SUPERVISORS																
BRAD ANDERSON																

MERCURY OPERATING, LLC						DATE:								10/5/2018					
						API:								42-003-47868					
LEASE & WELL NUMBER ARCO UNIVERSITY 213 #4						FIELD FULLERTON				AFE <b>D00O61</b>		CONTRACTOR & RIG NUMBER DOUBLE K #5							
PRESENT OPERATION <b>DAILY DRILLING COST</b>						FOOTAGE 498		HOURS 3.0		ROP 166		HOLE SIZE 12.25		FORMATION TYPE & TOPS SURFACE					
CASING O.D., WT & TVD / MD						LINER O.D.; WT; TOP & SHOE DEPTH						FIT		RIG DT / CUM DT 0    6		PROJECTED TVD \ MD 4,640			
												MISCELLANEOUS							
BRIEF DESCRIPTION OF OPERATIONS DRILLING SURFACE																			
24-Hr Forecast:      DRILL SURFACE TOH RUN CASING CEMENT																			
BIT INFORMATION																			
No	size	Mfg.	Serial number	Type	Jets	Out	Footage	Hours	ROP	Wt	RPM	T	B	G	Condition				
1	12.25	PDCLOGIC	10547	PLD616D6	6-14'S		498	3.0	166	5	120								
									#DIV/0!										
PUMP																			
NO.	MODEL	LINER	SPM	PSI	GPM	AV DP	AV DC	BBLS \STK	SLOW PUMP STKS	SHAKER SCREENS	STRING WEIGHT PU	SO	ROT	AMPS	TORQUE FT/LBS				
1	BRIDGES	6	75	475	0						55	45	50						
2	BRIDGES	6	75	475	0														
3					0														
IN MUD PROPERTIES																			
DAILY MUD COST \$1,500 TOTAL MUD COST \$1,500																			
0	DEPTH	WT	VIS	PV/Y.P	GELS	API	HTWL	MBT	SOLIDS	Pm	%LGS	pH	P/MF	Cake	NaCl				
498	8.50	29																	
OUT MUD PROPERTIES																			
TIME	DEPTH	WT	VIS	PV/Y.P	GELS	API	HTWL	MBT	SOLIDS	Pm	%LGS	pH	P/MF	Ca	Cl				
498	8.5	29																	
DAILY MUD ADDITIVES																			
PAPER MF55 SOAP																			
DIRECTIONAL SURVEYS																			
M. DEPTH	ANGLE	DRIFT	TVD	V/S	DS	M. DEPTH	ANGLE	DRIFT	TVD	V/S	DS								
202	0.40																		
FROM TO HOURS 24 HOUR OPERATIONS SUMMARY																			
06:00	18:00	12.0	MOVE RIG RIG UP										BHA	1					
18:00	19:30	1.5	WELD ON CONDUCTOR RIG ACCEPTED AT 6:00 PM																
19:30	01:00	5.5	RIG UP FLOWLINE CENTER CONDUCTOR CHAIN DOWN RIG UP WIRELINE MAKE UP TOP DRIVE										TOOL	LENGTH	TOTAL				
1:00	02:30	1.5	PRESPOD INSPECTION MAKEUP BHA TAG BOTTOM AT 40'																
2:30	04:00	1.5	SPUD IN DRILL 0-230 230' 153 FPH										12.25 BIT		1.00				
4:00	04:30	0.5	WLS @ 202 .4 DEG										SHOCK SUB		12.05				
4:30	06:00	1.5	DRILLING 230-498 268' 179 FPH										8"DC		29.40				
													REAMER		7.10				
													2-8"DCS		59.30				
													XO		2.95				
													13-6"DCS		387.00				
Total:	24.0		Safety Topic: RIG MOVE PICKING UP COLLARS WLS										KELLY		498.80				
			CONSUMABLES					WATER DEPTH			DP Diameter:								
			BARITE Sax					AIR GAP			DC Diameter:								
			CEMENT Sax											498.80					
			GEL Sax					RTB-WATER			ACCIDENTS N/A								
			FUEL Bbl					RTB-MUDLINE			POLLUTION N/A								
			DRILL WATER Bbl					RTB-WELLHEAD			PREV. TOTAL \$84,700								
			POT WATER Bbl					RTB-HYDRIL			DAILY COST \$19,700								
			MAN HRS 12					Bow Heading			CUMM. TOTAL \$104,400								
TOTAL ON BOARD			TOTAL MAN HRS 12					RIG SUPERVISORS											
WIND		SEAS		WORK BOAT		CREW BOAT		FUEL RECEIVED		BRAD ANDERSON									

														DATE: 10/6/2018					
API:														42-003-47868					
LEASE & WELL NUMBER				FIELD				AFE		CONTRACTOR & RIG NUMBER				SPUD DATE		DAYS		TVD DEPTH MD	
ARCO UNIVERSITY 213 #4				FULLERTON				DOOO61		DOUBLE K #5				10/05/18		2		1,771	
PRESENT OPERATION				FOOTAGE		HOURS		ROP		HOLE SIZE		FORMATION TYPE & TOPS				PROJECTED TVD \ MD			
DAILY DRILLING COST				1,273		8.5		150		12.25		SURFACE				4,640			
CASING O.D., WT & TVD / MD				LINER O.D.; WT; TOP & SHOE DEPTH				FIT				RIG DT / CUM DT		NEXT BOP TEST DATE					
												0 6							
												MISCELLANEOUS							
BRIEF DESCRIPTION OF OPERATIONS																			
RUNNING CASING																			
24-Hr Forecast: CEMENT NIPPLE UP																			
BIT INFORMATION																			
No size Mfg. Serial number Type Jets Out Footage Hours ROP Wt RPM T B G Condition																			
1 12.25 PDCLOGIC 10547 PLD616D6 6-14'S 1.771 1.771 11.5 154 20 120 66 66 66 66																			
#DIV/0!																			
PUMP																			
NO. MODEL LINER SPM PSI GPM AV DP AV DC BBLS \STK STKS PSI SLOW PUMP SCREENS SHAKER PU SO ROT AMPS TORQUE FT/LBS																			
1 BRIDGES 6 75 475 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0																			
2 BRIDGES 6 75 475 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0																			
3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0																			
IN MUD PROPERTIES DAILY MUD COST \$2,000 TOTAL MUD COST \$3,500																			
0 DEPTH 1.771 WT 9.00 VIS 31 PV/YP GELS API HTWL MBT SOLIDS Pm %LGS pH PIMf Cake NaCl																			
OUT MUD PROPERTIES																			
TIME DEPTH 1771 WT 9.2 VIS 32 PV/YP GELS API HTWL MBT SOLIDS Pm %LGS pH PIMf Ca Cl																			
DAILY MUD ADDITIVES																			
PAPER MF55 SOAP																			
DIRECTIONAL SURVEYS																			
M. DEPTH ANGLE M.DEPTH ANGLE VIS DS M. DEPTH ANGLE DRIFT TVD VIS DS																			
202 0.40 1552.00 1.20 583 1.40 1771.00 1066 1.20																			
24 HOUR OPERATIONS SUMMARY																			
FROM TO HOURS DRILL 498-610 112' 112 FPH BHA 1																			
7:00 07:30 0.5 WLS @ 583 1.4 DEG 499' 125 FPH TOOL LENGTH TOTAL																			
11:30 12:00 0.5 WLS @ 1066 1.2 DEG 488' 195 FPH 12.25 BIT 1.00																			
12:00 14:30 2.5 DRILLING 1109-1597 174' 174 FPH SHOCK SUB 12.05																			
14:30 15:00 0.5 WLS @ 1552 1.2 DEG 8"DC 29.40																			
15:00 16:00 1.0 DRILLING 1597-1771 1.0 CIRC REAMER 7.10																			
16:00 17:00 7.5 TOOH FOR SURFACE VERY TIGHT HOLE AND SEVERE WEATHER 2-8"DCS 59.30																			
17:00 00:30 5.5 RIG UP AND RUN 8 5/8 CASING SET AT 1771' XO 2.95																			
0:30 06:00 22-6"DCS 646.85																			
CONTACTED RRC SPOKE WITH VALERIE JOB # 149673																			
Total: 24.0 Safety Topic: RIG MOVE PICKING UP COLLARS WLS KELLY 1771.65																			
CONSUMABLES																			
BARITE WATER DEPTH DP Diameter:																			
CEMENT AIR GAP DC Diameter: 1771.65																			
FUEL RTB-WATER ACCIDENTS N/A																			
GEL RTB-MUDLINE POLLUTION N/A																			
DRILL WATER Bbl RTB-WELLHEAD PREV. TOTAL \$104,400																			
POT WATER Bbl RTB-HYDRIL DAILY COST \$67,050																			
MAN HRS 24 Bow Heading CUMM. TOTAL \$171,450																			
0 TOTAL ON BOARD TOTAL MAN HRS 36 RIG SUPERVISORS																			
WIND SEAS WORK BOAT CREW BOAT FUEL RECEIVED 4,370 BRAD ANDERSON																			

<div><div><div>MERCURY</div><div>OPERATING, LLC</div></div></div>										DATE: 10/7/2018			
API:										42-003-47868			
SPUD DATE: 10/05/18										DAYS: 3	TVD DEPTH MD: 1,771		
LEASE & WELL NUMBER ARCO UNIVERSITY 213 #4			FIELD FULLERTON		AFE DOOO61	CONTRACTOR & RIG NUMBER DOUBLE K #5							
PRESENT OPERATION DAILY DRILLING COST			FOOTAGE	HOURS	ROP	HOLE SIZE 6-14'S		FORMATION TYPE & TOPS			PROJECTED TVD \ MD 4,640		
CASING O.D., WT & TVD / MD 8 5/8 24 # 1771			LINER O.D.; WT; TOP & SHOE DEPTH			FIT			RIG DT / CUM DT 0 6		NEXT BOP TEST DATE 10/8/2018		
									MISCELLANEOUS				
BRIEF DESCRIPTION OF OPERATIONS TIH													
24-Hr Forecast: DRILL OUT SLIDE AND ROTATE													
BIT INFORMATION													
No size Mfg. Serial number Type Jets Out Footage Hours ROP Wt RPM T B G Condition													
1 12.25 PDCLOGIC 10547 PLD616D6 6-14'S 1,771 1,771 11.5 154 20 120 48 42 45													
2 7.88 PDCLOGIC T10609 PLD616D6E 6-15'S #DIV/O!													
PUMP													
NO. MODEL LINER SPM PSI GPM AV DP AV DC BBLS \STK STKS PSI SLOW PUMP SHAKER SCREENS PU SO ROT AMP TORQUE FT/LBS													
1 BRIDGES 6 75 0													
2 BRIDGES 6 75 0													
3 0													
IN MUD PROPERTIES DAILY MUD COST \$0 TOTAL MUD COST \$3,500													
0 DEPTH 1,771 WT 10.00 VIS 29 PV/Y P GELS API HTWL MBT SOLIDS Pm %LGS pH 10 PIMf Ca NaCl													
OUT MUD PROPERTIES													
TIME DEPTH 1771 WT 10 VIS 29 PV/Y P GELS API HTWL MBT SOLIDS Pm %LGS pH 10 PIMf Ca Cl													
DAILY MUD ADDITIVES													
DIRECTIONAL SURVEYS													
M. DEPTH ANGLE M.DEPTH ANGLE VIS DS M. DEPTH ANGLE DRIFT TVD VIS DS													
202 0.40 1552.00 1.20 583 1.40 1771.00 1.10 1066 1.20													
FROM TO HOURS 24 HOUR OPERATIONS SUMMARY													
06:00 06:30 0.5 RIG DOWN CASING CREW BHA 1													
6:30 10:30 4.0 RIG UP AND CEMENT W/450 SKS LEAD 500 TAIL CIRC 53 SKS PLUG DOWN @ 10:10 AM													
10:30 14:30 4.0 WOC RUN GYRO TOOL LENGTH TOTAL													
14:30 17:00 2.5 CUT OFF CONDUCTOR AND CASING WELD HEAD AND TEST TO 1000 PSI TEST GOOD													
17:00 21:00 4.0 NIPPLE UP BOP BIT 1.00													
21:00 21:30 0.5 TEST BLIND RAMS CHOKE AND WELL HEAD TO 1500 PSI TEST GOOD MOTOR 25.83													
21:30 22:30 1.0 RIG UP FLOOR TO TIH HOLE STABILIZER 5.04													
22:30 23:30 1.0 STRAP BHA AND DRILL PIPE MULESHOE SUB 3.12													
23:30 01:00 1.5 PICK UP BHA AND SCRIBE DIRECTIONAL TOOLS MWD 30.67													
1:00 02:30 1.5 SLIP AND CUT 110 FT OF DRILLING LINE MONEL 29.59													
2:30 03:30 1.0 TIH 4-6'DCS 118.68													
3:30 04:30 1.0 TEST PIPE RAMS ANNULAR AND CASING TO 1500 PSI TEST GOOD													
4:30 06:00 1.5 TIH AND INSTALL ROTATING RUBBER													
CONTACTED RRC SPOKE WITH VALERIE JOB # 149673													
Total: 24.0 Safety Topic: CEMENTING NIPPLE UP TESTING PICKING UP TOOLS KELLY 213.93													
CONSUMABLES													
BARITE Sax WATER DEPTH													
CEMENT Sax AIR GAP													
GEL Sax RTB-WATER ACCIDENTS N/A													
FUEL Bbl RTB-MUDLINE POLLUTION N/A													
DRILL WATER Bbl RTB-WELLHEAD PREV. TOTAL \$171,450													
POT WATER Bbl RTB-HYDRIL DAILY COST \$84,300													
MAN HRS 24 Bow Heading CUMM. TOTAL \$255,750													
0 TOTAL ON BOARD TOTAL MAN HRS 60 RIG SUPERVISORS													
WIND SEAS WORK BOAT CREW BOAT FUEL RECEIVED BRAD ANDERSON													

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LEASE & WELL NUMBER																	
ARCO UNIVERSITY 213 #4				FIELD FULLERTON		A/E DOOO061	CONTRACTOR & RIG NUMBER DOUBLE K #5										
PRESENT OPERATION DAILY DRILLING COST				FOOTAGE		HOURS	R/O P	HOLE SIZE 7.88	FORMATION TYPE & TOPS SALT ANHY DOLO		DATE:		10/13/2018				
Casing O.D., WT & TVD / MD 8 5/8 24 #    1771 5.5 15.5#    4648				LINER O.D.; WT; TOP & SHOE DEPTH				FIT 1771-1881 1000 PSI				SPUD DATE 10/05/18		DAYS 9	TVD DEPTH MD 4,648		
												RIG DT / CUM DT 0      12.5		PROJECTED TVD \ MD 4,640			
												MISCELLANEOUS					
BRIEF DESCRIPTION OF OPERATIONS WORKING ON PUMP EXPENDABLES RAMS ON BOP HARD BANDING COLLARS AND DRILL PIPE																	
24-Hr Forecast: RIG ON STAND BY TO MOVE																	
BIT INFORMATION																	
No	size	Mfg.	Serial number	Type	Jets	Out	Footage	Hours	ROP	Wt	RPM	T	B	G	Condition		
1	12.25	PDCLOGIC	10547	PLD616D6	6-14'S	1,771	1,771	11.5	154	20	120						
2	7.88	PDCLOGIC	T10609	PLD616D6E	6-15'S	4,648	2,877	45.5	63.2	20	70						
PUMP														TORQUE			
N.O.	MODEL	LINER	SPM	PSI	GPM	AV DP	AV DC	BBLS \ STK	SLOW PUMP STKS	SHAKER SCREENS	STRING WEIGHT PU	SO	ROT	AMPS	FT/LBS		
1					0												
2					0												
3					0												
IN MUD PROPERTIES														TOTAL MUD COST			
DAILY MUD COST																	
0	DEPTH	WT	VIS	PV/Y/P	GELS	API	HTWL	MBT	SOLIDS	Pm	%LGS	pH	Pf/MF	Cake	NaCl		
OUT MUD PROPERTIES																	
TIME	DEPTH	WT	VIS	PV/Y/P	GELS	API	HTWL	MBT	SOLIDS	Pm	%LGS	pH	Pf/MF	Ca	CI		
DAILY MUD ADDITIVES																	
DIRECTIONAL SURVEYS																	
M. DEPTH	ANGLE	M.DEPTH	ANGLE	V/S	DS	M. DEPTH	ANGLE	DRIFT	TVD	V/S	DS						
FROM TO HOURS 24 HOUR OPERATIONS SUMMARY														BHA		1	
06:00 18:00 12.0 WORK ON MUD PUMPS TOP DRIVE SLIDES AND HARD BAND PIPE AND COLLARS FINISHED																	
18:00 06:00 12.0 RIG RELEASED AT 6:00 PM STAND BY FOR RIG MOVE														TOOL		LENGTH TOTAL	
Total:		24.0	Safety Topic: WORKING ON EQUIPMENT INSPECTING PIPE AND COLLARS											KELLY			
			CONSUMABLES						WATER DEPTH			DP Diameter:					
			BARITE Sax						AIR GAP			DC Diameter:					
			CEMENT Sax									0.00					
			GEL Sax						RTB-WATER ACCIDENTS N/A								
			FUEL Bbl RTB-MUDLINE POLLUTION N/A														
			DRILL WATER Bbl RTB-WELLHEAD PREV. TOTAL \$466,800														
			POT WATER Bbl RTB-HYDRIL DAILY COST \$13,400														
			MAN HRS 12 Bow Heading CUMM. TOTAL \$480,200														
0 TOTAL ON BOARD			TOTAL MAN HRS 192						RIG SUPERVISORS								
WIND		SEAS		WORK BOAT		CREW BOAT		FUEL RECEIVED		BRAD ANDERSON							

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