

ATTACHMENT B



Borehole Logging Form

BOREHOLE ID: SB01 SITE NAME: Girdfelder Auaco CLIENT NAME: PDC ENERGY

Date Completed: 3/30/2022 Location: Source

Drilling Company: Tasman Surface Completion: None DTW: N/A TD: ~11'

Type of Drill: Hand Auger Geologist: Kris Shepherd Project Manager: B. Nelson

Bit Size: 3" Logging Method: HA

Well Const. Material: Diameter: N/A Screen: Sch 40 PVC Slotted 0.010 Riser: Sch 40 PVC Blank

Depth (feet)	Well Completion	Sample Type	% Recovery	PID (ppm)	Laboratory Sample	USCS	Description
1	None			0.0		SP	Brown, sand, fine grain, well sorted, moist, no odor
2				0.0			
3				0.0	SB01@3' 0900	SD	Brown, sand, fine to coarse grain, poorly sorted, moist, no odor
4				0.0	SB01@4' 0905		
5		HA	100%	0.0	SB01@5' 0910		
6				0.0	SB01@6' 0915		
7				0.0			
8				0.0		SD	As above, tan color
9				0.0			
10				0.0	SB01@10' 0920		
11						Groundwater not encountered	
12							
13							
14							
15							
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Borehole Logging Form

BOREHOLE ID: SB02 SITE NAME: Gutierrez Area CLIENT NAME: PDC ENERGY

Date Completed: 3/30/2022 Location: N

Drilling Company: Tasman Surface Completion: None DTW: N/A TD: ~10'

Type of Drill: Hand Auger Geologist: Kris Shepherd Project Manager: B. Nelson

Bit Size: 3" Logging Method: HA

Well Const. Material: Diameter: N/A Screen: Sch 40 PVC Slotted 0.010 Riser: Sch 40 PVC Blank

Depth (feet)	Well Completion	Sample Type	% Recovery	PID (ppm)	Laboratory Sample	USCS	Description	
1	None			0.0		SP	Brown sand, fine grain, well sorted, trace silt, moist, no odor	
2				0.0			↓	
3				0.0	SB02@3' 0922	SW	Brown sand, fine to coarse grain, poorly sorted, moist, no odor	
4				0.0	SB02@4' 0925		↓	
5		HA		100%	0.0	SB02@5' 0928	SW	-As above, tan
6					0.0	SB02@6' 0930		↓
7					0.0			
8					0.0			
9					0.0			
10					0.0	SB02@10' 0935		↓
11							-Groundwater not encountered	
12								
13								
14								
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16								
17								
18								
19								
20								
21								
22								
23								
24								
25								

Borehole Logging Form

BOREHOLE ID: SB03 SITE NAME: Gutfelder Amoco CLIENT NAME: PDC ENERGY

Date Completed: 3/30/22 Location: W

Drilling Company: Tasman Surface Completion: None DTW: N/A TD: ~10'

Type of Drill: Hand Auger Geologist: Kris Shepherd Project Manager: B. Nelson

Bit Size: 3" Logging Method: Continuous

Well Const. Material: Diameter: N/A Screen: Sch 40 PVC Slotted 0.010 Riser: Sch 40 PVC Blank

Depth (feet)	Well Completion	Sample Type	% Recovery	PID (ppm)	Laboratory Sample	USCS	Description
1	None			0.0		SP	Brown, sand, fine grain, well sorted, moist, no odor
2				0.0			↓
3				0.0	SB03@3' 0945	SW	Brown, sand, fine to coarse grain, poorly sorted, moist, no odor
4				0.0	SB03@4' 0948	SW	-As above, trace gravel
5		HA	100%	0.0	SB03@5' 0950	SW	↓
6				0.0	SB03@6' 0955	SW	Brown to tan, sand, fine to coarse grain, poorly sorted, moist, no odor
7				0.0			↓
8				0.0			↓
9				0.0			↓
10				0.0	SB03@10' 1000		↓
11						-Groundwater not encountered	
12							
13							
14							
15							
16							
17							
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19							
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22							
23							
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25							



Borehole Logging Form

BOREHOLE ID: SBO4 SITE NAME: Gutfielder Amoco CLIENT NAME: PDC ENERGY

Date Completed: 3/20/2022 Location: S

Drilling Company: Tasman Surface Completion: None DTW: N/A TD: ~10'

Type of Drill: Hand Auger Geologist: Kris Shepherd Project Manager: B. Nelson

Bit Size: 3" Logging Method: HA

Well Const. Material: Diameter: N/A Screen: Sch 40 PVC Slotted 0.010 Riser: Sch 40 PVC Blank

Depth (feet)	Well Completion	Sample Type	% Recovery	PID (ppm)	Laboratory Sample	USCS	Description
1	None			0.0		SD	Brown, sand, fine grain, well sorted, moist, no odor
2				0.0			↓
3				0.0	SBO4@3' 1008	SW	Brown, sand, fine to coarse grain, well sorted, poorly sorted, trace silt, moist, no odor
4				0.0	SBO4@4' 1010		↓
5		HA	100%	0.0	SBO4@5' 1012	SW	Tan, sand, fine to coarse grain, poorly sorted, moist, no odor
6				0.0	SBO4@6' 1015		↓
7				0.0			↓
8				0.1			↓
9				0.1			↓
10				0.1	SBO4@10' 1020		Groundwater not encountered
11							
12							
13							
14							
15							
16							
17							
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20							
21							
22							
23							
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25							



Borehole Logging Form

BOREHOLE ID: SB05 SITE NAME: Gutteridge Amoco CLIENT NAME: PDC ENERGY

Date Completed: 3/30/2022 Location: E

Drilling Company: Tasman Surface Completion: None DTW: N/A TD: ~10'

Type of Drill: Hand Auger Geologist: Kris Shepherd Project Manager: B. Nelson

Bit Size: 3 Logging Method:

Well Const. Material: Diameter: N/A Screen: Sch 40 PVC Slotted 0.010 Riser: Sch 40 PVC Blank

Depth (feet)	Well Completion	Sample Type	% Recovery	PID (ppm)	Laboratory Sample	USCS	Description	
1	None			0.0		SP	Brown sand, fine grain well sorted, trace silt, moist, no odor	
2				0.0			↓	
3				0.0	SB05@3'	SW	Brown to tan, fine to coarse grain, poorly sorted, moist, no odor	
4				0.0	SB05@4'			
5		HA		100%	0.0	SB05@5'		
6					0.0	SB05@6'		
7					0.1	1032		
8					0.0	1035		
9					0.1	1040		
10					0.1	SB05@10'		↓
11					1045		-Groundwater not encountered	
12								
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Borehole Logging Form

BOREHOLE ID: BK002 SITE NAME: Gudgeru Amara CLIENT NAME: PDC ENERGY

Date Completed: 3/30/2022 Location: BK01 NE

Drilling Company: Tasman Surface Completion: None DTW: N/A TD: ~10'

Type of Drill: Hand Auger Geologist: Kris Shepherd Project Manager: B. Nelson

Bit Size: 3" Logging Method: HA

Well Const. Material: Diameter: N/A Screen: Sch 40 PVC Slotted 0.010 Riser: Sch 40 PVC Blank

Depth (feet)	Well Completion	Sample Type	% Recovery	PID (ppm)	Laboratory Sample	USCS	Description
1	<u>None</u>			0.0		<u>SP</u>	<u>Brown, sand, fine grain, well sorted, trace silt, moist, no odor</u>
2				0.0			
3				0.0	<u>BK00203</u>	<u>SW</u>	<u>Brown to tan, fine to coarse grain, poorly sorted, moist no odor</u>
4				0.0	<u>1005</u> <u>BK00204</u>		
5		<u>HA</u>		<u>100%</u>	0.0	<u>1058</u> <u>BK00205</u>	
6					0.0	<u>1100</u> <u>BK00206</u>	
7					0.0	<u>1105</u>	
8					0.0		
9					0.0		
10					0.0	<u>BK00207</u> <u>1115</u>	
11							<u>Groundwater not encountered</u>
12							
13							
14							
15							
16							
17							
18							
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21							
22							
23							
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25							



Borehole Logging Form

BOREHOLE ID: SB06 **SITE NAME:** Gutfreider Amolo 14-19 WIT **CLIENT NAME:** PDC ENERGY
Date Completed: 2/24/23 **Location:** Souru
Drilling Company: Tasman **Surface Completion:** NA **DTW:** NA **TD:** 17'
Type of Drill: AMS **Geologist:** E. Wozniak **Project Manager:** B. Nelson
Bit Size: 2 3/8" **Logging Method:**

Well Const. Material: Diameter: 1" **Screen:** Sch 40 PVC Slotted 0.010 **Riser:** Sch 40 PVC Blank

Depth (feet)	Well Completion	Sample Type	% Recovery	PID (ppm)	Laboratory Sample	USCS	Description	
1	NA			0.1		SP	(0-2') Brown, silty sand, fine to coarse grain, poorly sorted, dry, mixed w/ trace gravel	
2				0.0				
3		HA	100	0.0	SB06(3') (1100)	SP	(2'-10') Tan, sand, fine to coarse grain, poorly sorted, dry, no odor	
4					0.0			trace gravel
5					0.1	SB06(5') (1110)		
6					0.0	SB06(6') (1115)		
7	NA			0.3				
8		DP	60	0.5				
9					0.1			
10					70.2	SB06(10') (1130)		
11	NA			32.0		SP	(10'-15') As above, organic odor, no staining	
12		DP	80	50.0	SB06(12.5') (1145)			
13					56.7			
14					82.1			
15	NA	DP	100	90.4	SB06(15') (1150)			
16	NA			4.0			(15'-17') As above, slight organic odor, moist	
17		DP	80	2.2	SB06(17') (1150.2)			
18							Groundwater was not encountered	
19								
20								
21								
22								
23								
24								
25								

BOREHOLE ID: SBO8	SITE NAME: Gutfelder Amolo 14-19 WZ	CLIENT NAME: PDC ENERGY
Date Completed: 2/24/23	Location: W of source	
Drilling Company: Tasman	Surface Completion: NA	DTW: NA TD: 17'
Type of Drill: AMS	Geologist: E. Wozniak	Project Manager: B. Nelson

Bit Size : 2 3/8" Logging Method:

Well Const. Material: Diameter: 1" Screen: Sch 40 PVC Slotted 0.010 Riser: Sch 40 PVC Blank

Depth (feet)	Well Completion	Sample Type	% Recovery	PID (ppm)	Laboratory Sample	USCS	Description
1	↑	↑	↑	0.0		SP	(0-2) Brown, silty sand, fine to coarse grain, poorly sorted, dry, no odor
2				0.2			
3	NA	HA	100%	1.4	SBO8@3' (B10)	SP	(2-15') Tan sand, fine to coarse grain, poorly sorted, dry, no odor - trace gravel
4				0.1			
5	↓			0.3	SBO8@5' (1425)		
6		↓	↓	0.3	SBO8@6' (1430)		
7	NA			1.7			
8		DP	70%	2.6			
9				2.0			
10	NA			2.2	SBO8@10' (1435)		
11				1.1			
12		DP	80%	1.9	SBO8@12.5' (1440)		
13	NA			0.8			
14				0.5			
15	DP	60%	0.7	SBO8@15' (1445)			
16	NA	DP	50%	0.4	SBO8@17' (1450)		(15'-17') As above, moist
17				0.5			
18							Groundwater was not encountered
19							
20							
21							
22							
23							
24							
25							