

ATTACHMENT C



Borehole Logging Form

BOREHOLE ID: SB01		SITE NAME: McLeod 29-41 73		CLIENT NAME: PDC ENERGY			
Date Completed: 11/21/22		Location: IV of extent					
Drilling Company: Drill Pro		Surface Completion: NA		DTW: 26'		TD: 32'	
Type of Drill:		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							(0-6') Hydrovac, no recovery
2							
3			0%				
4							
5							
6							
7		SS	100%	0.0		ML	(6'-7') Tan, sandy silt, fine to medium grain, poorly sorted, no plasticity, moist, - trace gravel
8		BC=22		0.0			
9		SS	100%	0.3			VCS = 2.00 kg/cm ²
10		BC=24		0.0		SM	(7'-9') Tan, silty sand, fine to medium grain, poorly sorted, moist, no odor
11		SS	100%	0.0			VCS = 0.75 kg/cm ²
12		BC=27		0.0		SW	(9-10') tan sand, fine to medium grain, poorly sorted, moist, no odor
13							VCS = 0.25 kg/cm ²
14		SS	100%	0.0		SW	(10-19') As above, medium to coarse grain
15		BC=68		0.0			
16		SS	100%	0.7			
17		BC=76		0.2			
18			0%				
19		SS	100%	2.9			
20		BC=50		525.3		SW	(19'-23') As above, gray staining, HC odor
21		SS	50%	734.4			
22		BC=51					
23			0%				
24		SS	50%			SW	(23'-25') As above, dark gray staining, HC odor
25		BC=42					



Borehole Logging Form

BOREHOLE ID: SB01 SITE NAME: ML 201 29-411B CLIENT NAME: PDC ENERGY

Date Completed: 11/21/22 Location: N of 50414

Drilling Company: Drill Pro Surface Completion: NA DTW: 26' TD: 32'

Type of Drill: _____ Geologist: E. Wozniak Project Manager: B. N. P. Sca

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
26		SS	60%	793	SB01(4) 25'-27' 103.0	SW	(25-26) Tan, sand, medium to coarse grain, poorly sorted, moist, dark gray staining, HC bdr VLS < 0.25 ug/cm ²
27		BC=02	0%			SW	(26'-27') As above, saturated
28							
29		SS	50%	1254			
30		BC=13		3.9		CL	(29-31') Tan, sandy clay, low plasticity, saturated, no odor, no staining, VLS = 1.0 ug/cm ²
31		SS	50%	0.5	SB01(6) 31-32(1050)	SW	(31'-32) Tan, sand, fine to coarse grain, poorly sorted, saturated, no staining, no odor, VLS < 0.25 ug/cm ²
32		BC=15					
33							
34							
35							
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50							



Borehole Logging Form

BOREHOLE ID: <u>SB02</u>		SITE NAME: <u>McLeod 29-41TB</u>		CLIENT NAME: <u>PDC ENERGY</u>			
Date Completed: <u>11/21/22</u>		Location: <u>W of extent</u>					
Drilling Company: <u>Drill Pro</u>		Surface Completion: <u>NA</u>		DTW: <u>26'</u> TD: <u>30'</u>			
Type of Drill:		Geologist: <u>E. Wozniak</u>		Project Manager: <u>B. Nelson</u>			
Bit Size: <u>2 3/8"</u>		Logging Method:					
Well Const. Material: Diameter: <u>1"</u> Screen: <u>Sch 40 PVC Slotted 0.010</u> Riser: <u>Sch 40 PVC Blank</u>							
Depth (feet)	Well Completion	Sample Type	% Recovery	PID (ppm)	Laboratory Sample	USCS	Description
1							(0-6) Hydrovac, no recovery
2							
3			0%				
4							
5							
6							
7		SS	80%	0.7		SW	(6'-13') Tan, sand, fine to medium grain, poorly sorted, moist, no odor, no staining
8		BC=22		2.2			VCS < 0.25 kg/cm ²
9		SS	50%	1.1			
10		BC=29					
11		SS		0.6			
12		BC=17	90%	2.0			
13			0%				
14		SS	100%	0.2		SW	(13'-18') As above, fine to coarse grain
15		BC=71		0.3			
16		SS	50%	2.4			
17		BC=54					
18			0%				
19		SS	50%	0.4		CL	(18'-19') Gray sandy clay, medium plasticity, moist, no odor
20		BC=52					VCS = 3.0 kg/cm ²
21		SS	100%	1.4		SW	(19'-25') Tan, sand, fine to coarse grain, poorly sorted, moist, no odor
22		BC=50		0.3			VCS < 6.25 kg/cm ²
23			0%				
24		SS	80%	0.6			
25		BC=58		0.3			



Borehole Logging Form

BOREHOLE ID: <u>SB02</u>	SITE NAME: <u>McLeod 29-41 TB</u>	CLIENT NAME: <u>PDC ENERGY</u>
Date Completed: <u>11/21/22</u>	Location: <u>W of extent</u>	
Drilling Company: <u>Drill Pro</u>	Surface Completion: <u>NA</u>	DTW: <u>26'</u> TD: <u>30'</u>
Type of Drill:	Geologist: <u>E. Wozniak</u>	Project Manager: <u>B. Nelson</u>
Bit Size: <u>2 3/8"</u>	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
26		SS	40%		SB02 (25-27' (1315)	SW	(25'-26') Tan, sand, fine to coarse grain, poorly sorted moist, no odor, UCS < 0.25 kg/cm ²
27		BC=37		2.1			(26'-30') As above, saturated
28			0%				
29		SS	10%	0.6	SB02 (29-30' (1330)		
30		BC=29		0.4			
31							
32							
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Borehole Logging Form

BOREHOLE ID: <u>SB03</u>		SITE NAME: <u>McLeod 29-41 TB</u>		CLIENT NAME: <u>PDC ENERGY</u>			
Date Completed: <u>11/21/22</u>		Location: <u>Self source</u>					
Drilling Company: <u>Drillpro</u>		Surface Completion:		DTW: <u>26'</u> TD: <u>30'</u>			
Type of Drill:		Geologist: <u>E. Wozniak</u>		Project Manager: <u>B. Nelson</u>			
Bit Size: <u>2 3/8"</u>		Logging Method:					
Well Const. Material: <u>Diameter: 1"</u>		Screen: <u>Sch 40 PVC Slotted 0.010</u>		Riser: <u>Sch 40 PVC Blank</u>			
Depth (feet)	Well Completion	Sample Type	% Recovery	PID (ppm)	Laboratory Sample	USCS	Description
1							(0-6') Hydrocar, no recovery
2							
3							
4							
5							
6							
7		SS	100%	0.5		SW	(6-14) tan, sand, fine to medium grain, poorly sorted, moist, no odor, no staining, UCS < 0.25 kg/cm ²
8		BC=28		0.4			
9		SS	100%	6.8			
10		BC=10		3.1			
11		SS	100%	29.4	SB03 (4) 10-11 (1130)		
12		BC=23		3.7			
13			0%				
14		SS	100%	23.4		SW	(14-25) As above, fine to coarse grain
15		BC=36		3.8			
16		SS	100%	10.1			
17		BC=30		9.1			
18			0%				
19		SS	50%	1.2			
20		BC=59					
21		SS	50%	12.3			
22		BC=67					
23			0%				
24		SS	90%	5.4			
25		BC=48		1.4			



Borehole Logging Form

BOREHOLE ID: <u>SB03</u>		SITE NAME: <u>McLeod 29-41 TB</u>		CLIENT NAME: <u>PDC ENERGY</u>			
Date Completed: <u>11/21/22</u>		Location: <u>Soil extent</u>					
Drilling Company: <u>Drill Pro</u>		Surface Completion: <u>NA</u>		DTW: <u>26'</u> TD: <u>30'</u>			
Type of Drill:		Geologist: <u>E. Wozniak</u>		Project Manager: <u>B. Nelson</u>			
Bit Size: <u>2 3/8"</u>		Logging Method:					
Well Const. Material: Diameter: <u>1"</u> Screen: <u>Sch 40 PVC Slotted 0.010</u> Riser: <u>Sch 40 PVC Blank</u>							
Depth (feet)	Well Completion	Sample Type	% Recovery	PID (ppm)	Laboratory Sample	USCS	Description
26		SS	60%	4.6	SB03@25' (1140)	SW	(25'-26') tan, sand, fine to coarse grain, poorly sorted, moist, no odor, no staining
27		BC=44	0%	1.0			(26'-27') As above, saturated
28							
29		SS	100%	0.3	SB03@29' (1150)	CL	(29'-30') tan, clay, low plasticity, saturated, no staining, no odor
30		BC=17		0.1			VCS = 1.5 kg/m ²
31							
32							
33							
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36							
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Borehole Logging Form

BOREHOLE ID: <u>SR04</u>		SITE NAME: <u>McLeod 29-41 TB</u>		CLIENT NAME: <u>PDC ENERGY</u>			
Date Completed: <u>11/21/22</u>		Location: <u>E of SOURCE</u>					
Drilling Company: <u>DrillPro</u>		Surface Completion:		DTW: <u>26'</u> TD: <u>30'</u>			
Type of Drill:		Geologist: <u>E. Wozniak</u>		Project Manager: <u>B. Nelson</u>			
Bit Size: <u>2 3/8"</u>		Logging Method:					
Well Const. Material: <u>Diameter: 1"</u>		Screen: <u>Sch 40 PVC Slotted 0.010</u>		Riser: <u>Sch 40 PVC Blank</u>			
Depth (feet)	Well Completion	Sample Type	% Recovery	PID (ppm)	Laboratory Sample	USCS	Description
1							(0-6') Hydraulic, no recovery
2							
3							
4							
5							
6							
7		SS	100%	0.2		ML	(6'-10') Tan. sandy silt, fine to medium grain, poorly sorted, no plasticity, dry, no odor, no staining, UCS = 4.5 kg/cm ²
8		BC=30		0.4			
9		SS	100%	0.0			
10		BC=23		0.4			
11		SS	100%	0.3		SW	(10-13) tan sand, fine to medium grain, poorly sorted, moist, no odor, UCS = 0.5 kg/cm ²
12		BC=31		0.2			
13			0%				
14		SS	50%	0.7		SW	(13'-23') As above, fine to coarse grain
15		BC=51					
16		SS	40%	0.3			
17		BC=85					
18			0%				
19		SS	50%	0.4			
20		BC=81					
21		SS	50%	0.5			
22		BC=58					
23			0%				
24		SS	100%	0.1			
25		BC=57		0.6			



Borehole Logging Form

BOREHOLE ID: <u>SB04</u>	SITE NAME: <u>McLeod 29-41 TB</u>	CLIENT NAME: <u>PDC ENERGY</u>
Date Completed: <u>11/22/22</u>	Location: <u>E of extent</u>	
Drilling Company: <u>DrillPro</u>	Surface Completion: <u>NA</u>	DTW: <u>26'</u> TD: <u>30'</u>
Type of Drill:	Geologist: <u>E. Wozniak</u>	Project Manager: <u>B. Nelson</u>

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
26 <u>✓</u>		<u>SS</u>	<u>40</u>	<u>0.3</u>	<u>SB04 @ 25-27 (1430)</u>	<u>SW</u>	<u>(25-26') Tan, sand, fine to coarse grain, poorly sorted, moist, no odor, no staining</u>
27		<u>SL-66</u>				<u>SW</u>	<u>(26'-30') As above, saturated</u>
28							
29		<u>SS</u>	<u>10-0</u>	<u>0.2</u>	<u>SB04 @ 29-30 (1440)</u>		
30		<u>SL-69</u>		<u>0.1</u>			
31							
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Borehole Logging Form

BOREHOLE ID: SB05 SITE NAME: McLeod 27-41 RB CLIENT NAME: PDC ENERGY
Date Completed: 11/22/22 Location: NE of extent
Drilling Company: Drill Pro Surface Completion: NA DTW: 26' TD: 30'
Type of Drill: _____ 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							(0-6) Hydraulic, no recovery
2							
3							
4							
5							
6							
7		SS	40%	0.4		ML	(6'-9') Tan, sandy silt, fine to medium grain, poorly sorted, no plasticity, dry, no staining, no odor VLS = 4.25 kg/cm ²
8		BC=22					
9		SS	100%	0.8			
10		BC=21		0.0		SW	(9'-13') Tan, sand, fine to medium grain, poorly sorted, moist, no odor, no staining VLS 20.25 kg/cm ²
11		SS	50%	1.2			
12		BC=22					
13			0%				
14		SS	60%	1.6		SW	(13'-25') Tan, sand, fine to coarse grain, poorly sorted, moist, no odor, no staining, trace gravel VLS 20.25 kg/cm ²
15		BC=68					
16		SS	50%	5.0			
17		BC=71					
18			0%				
19		SS	30%	1.2			
20		BC=78					
21		SS	80%	1.0			
22		BC=83		0.2			
23			0%				
24		SS	90%	0.1			
25		BC=65		0.1			



Borehole Logging Form

BOREHOLE ID: <u>SB05</u>		SITE NAME: <u>McLeod 29-41TB</u>		CLIENT NAME: <u>PDC ENERGY</u>			
Date Completed: <u>11/22/22</u>		Location: <u>NE</u>					
Drilling Company: <u>Drill Pro</u>		Surface Completion: <u>NA</u>		DTW: <u>26'</u> TD: <u>30'</u>			
Type of Drill:		Geologist: <u>E. Wozniak</u>		Project Manager: <u>B. Nielsen</u>			
Bit Size: <u>2 3/8"</u>		Logging Method:					
Well Const. Material: Diameter: <u>1"</u> Screen: <u>Sch 40 PVC Slotted 0.010</u> Riser: <u>Sch 40 PVC Blank</u>							
Depth (feet)	Well Completion	Sample Type	% Recovery	PID (ppm)	Laboratory Sample	USCS	Description
26 <u>✓</u>		<u>SS</u>	<u>50%</u>	<u>0.7</u>	<u>SB05 (1)</u> <u>25'-27'</u> <u>(940)</u>	<u>SW</u>	<u>(25'-26') Tan, sand, fine to coarse grain, poorly sorted, moist, no odor, no staining VCS < 0.25 kg/cm²</u>
27		<u>BC=67</u>					
28			<u>0%</u>			<u>SW</u>	<u>(26'-29') As above, saturated</u>
29		<u>SS</u>	<u>100%</u>	<u>1.3</u>	<u>SB05 (2)</u> <u>29'-30'</u> <u>(955)</u>		
30		<u>BC=31</u>		<u>1.4</u>		<u>CL</u>	<u>(29'-30') Tan, sandy clay, moderate plasticity, saturated no odor, no staining VCS = 1.00 kg/cm²</u>
31							
32							
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Borehole Logging Form

BOREHOLE ID: 5806	SITE NAME: Miled 29-4178	CLIENT NAME: PDC ENERGY
Date Completed: 11/22/22	Location: N most	
Drilling Company: Drill Pro	Surface Completion: NA	DTW: 26' TD: 30'
Type of Drill:	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							(6-6) Hydrovac, no recovery
2							
3							
4							
5							
6							
7		SS	100%	0.2		ML	(6'-10') Tan sandy silt fine to medium poorly sorted, no plasticity, dry, no odor, no staining
8		BC=24		0.1			VCS = 3.5 kg/cm ²
9		SS	100%	0.2			
10		BC=21		0.4			
11		SS	50%	0.7		SW	(10-25) Tan sand, fine to coarse grain, poorly sorted, moist, no odor, no staining
12		BC=18					VCS < 0.25 kg/cm ²
13			0%				
14		SS	50%	0.4			
15		BC=53					
16		SS	40%	2.9			
17		BC=78					
18			0%				
19		SS	60%				
20		BC=75		0.7			
21		SS	30%	4.1			
22		BC=31					
23			0%				
24		SS	50%	0.5			
25		BC=58					



Borehole Logging Form

BOREHOLE ID: <u>SB06</u>		SITE NAME: <u>Mileod 29-417B</u>		CLIENT NAME: <u>PDC ENERGY</u>			
Date Completed: <u>11/22/22</u>		Location: <u>N must</u>					
Drilling Company: <u>Drill Pro</u>		Surface Completion: <u>NA</u>		DTW: <u>26'</u> TD: <u>30'</u>			
Type of Drill:		Geologist: <u>E. Wozniak</u>		Project Manager: <u>B. Nelson</u>			
Bit Size: <u>2 3/8"</u>		Logging Method:					
Well Const. Material: Diameter: <u>1"</u>		Screen: <u>Sch 40 PVC Slotted 0.010</u>		Riser: <u>Sch 40 PVC Blank</u>			
Depth (feet)	Well Completion	Sample Type	% Recovery	PID (ppm)	Laboratory Sample	USCS	Description
26		SS	410%	1.9	SB06 @ 25-27 (1100)	SW	(25'-26') tan sand, fine to coarse grain, poorly sorted, moist, no odor, no staining,
27		BC=44	0%			SW	(26'-30') as above, saturated
28							
29		SS	100%	0.0	SB06 @ 29-30 (1100)		
30		BC=18		0.0			
31							
32							
33							
34							
35							
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Borehole Logging Form

BOREHOLE ID: <u>SB07</u>		SITE NAME: <u>McLeod 29-41</u>		CLIENT NAME: <u>PDC ENERGY</u>			
Date Completed: <u>11/22/22</u>		Location: <u>NW of extent</u>					
Drilling Company: <u>Drill Pro</u>		Surface Completion: <u>NA</u>		DTW: <u>26'</u> TD: <u>30'</u>			
Type of Drill:		Geologist: <u>E. Wozniak</u>		Project Manager: <u>B. Nelson</u>			
Bit Size: <u>2 3/8"</u>		Logging Method:					
Well Const. Material: <u>Diameter: 1"</u>		Screen: <u>Sch 40 PVC Slotted 0.010</u>		Riser: <u>Sch 40 PVC Blank</u>			
Depth (feet)	Well Completion	Sample Type	% Recovery	PID (ppm)	Laboratory Sample	USCS	Description
1							(0-6) Hydrovac, no recovery
2							
3							
4							
5							
6							
7		SS	50 %	0.0		ML	(5-10) tan sandy silt, fine to medium grain, poorly sorted, no plasticity, dry, no odor, no staining, VCS = 2.00 kg/cm ²
8		BC=19					
9		SS	40 %	0.1			
10		BC=14					
11		SS	50 %	0.0		SW	(10-25) tan sand, fine to coarse grain, poorly sorted, moist, no odor, no staining, VCS < 0.25 kg/cm ²
12		BC=21					
13			0 %				
14		SS	50 %	0.0			
15		BC=33					
16		SS	80 %	0.0			
17		BC=55		0.2			
18			0 %				
19		SS	40 %	0.1			
20		BC=18					
21		SS	80 %	0.2			
22		BC=53		0.4			
23			0 %				
24		SS	80 %	0.3			
25		BC=69		0.5			



Borehole Logging Form

BOREHOLE ID: SB07 SITE NAME: McLeod 29-41 TB CLIENT NAME: PDC ENERGY

Date Completed: 11/22/22 Location: NW of extent

Drilling Company: DrillPro Surface Completion: NA DTW: 26' TD: 30'

Type of Drill: Geologist: E. Wozniak Project Manager: M. B. M. M.

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
26		SS	40%	0.9	SB07@ 25-27 (1200)	SW	(25'-26') Tan, sand, fine to coarse grain, poorly sorted, moist, no odor, no staining
27		BC=28	0%			SW	(26'-29') As above, saturated
28							
29		SS	100%	0.0	SB07@ 29-30 (1210)	CL	(29'-30') Tan, sandy clay, moderate plasticity, saturated, no odor, no staining, VCS = 2.00 kg/cm ²
30		BC=26		0.0			
31							
32							
33							
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