

SHELL GULF OF MEXICO, Inc



Rotary Sidewall Cores Field Report

OCS-Y-2321 Burger J 001

Posey 6912
Chukchi Sea, Alaska
USA

Provided by:



Approved by: R.C. Scheidemann

Compiled by: Ryan Massey
Jeff McBeth

Distribution: 11/12/2015



Shell OCS-Y-2321 Burger J 001 Posey Block 6912



1. Well Summary Data

Burger J					
General Well Data Table					
WELL NAME, API & LOCATION					
Well Name	OCS-Y-2321 Burger J 001				
API/UWI	55-352-00004-00				
Block/Lease Name	Posey 6912				
Area/Field	Chukchi Sea				
State	Alaska				
Country	USA				
COORDINATES					
Surface Location					
Projection Datum	NAD 83	Coordinate System	UTM	Zone	3
Latitude	Longitude		X (ft)	Y (ft)	
71° 10' 24.0029" N	163° 28' 18.522" W		555,036	7,897,424	
Bottom hole Location					
Projection Datum	NAD 83	Coordinate System	UTM	Zone	3
Latitude	Longitude		X (ft)	Y (ft)	
71° 10' 24.0029" N	163° 28' 18.522" W		555,036	7,897,424	
DATES					
Spud Date	7/30/2015 17:05				
TD Date	9/21/2015 23:09				
P&A Date	WSG released before P&A				
Rig Release Date	WSG released before rig release				
RIG & DATUM					
Water Depth	146 ft				
RT elevation (above MSL)	76 ft				
Rig Name	Polar Pioneer				
Rig Company	Transocean				
Rig Type	Semi-submersible / Triple				
TD and KOP					
			ft MDRT	ft TVDSS	
Planned TD			6,800'	-6,724'	
Pilot Hole Actual TD Driller			6,800'	-6,719'	



Shell OCS-Y-2321 Burger J 001 Posey Block 6912

WELL OBJECTIVES									
Primary Objective									
Formation Name	Expected at			Drilled at			Results		
	MDRT	TVDSS		MDRT	TVDSS				
C SAND	5,926'	-5,850'		5,873'	-5,795'		-55'		
A SAND	6,006'	-5,930'		5,968'	-5,889'		-41'		
D SAND	6,511'	-6,435'		6,451'	-6,719'		-64'		
OFFSET WELLS									
Well Name		Operator			Year		Distance (surface Location)		
Burger 1		SWEPI			1989/1990		~8 mi		
BOREHOLE & WELL PROFILE									
Borehole (pilot hole, by-pass or sidetrack)					Pilot hole				
Well Profile (vertical, deviated, horizontal)					Vertical				
Maximum deviation @ depth (MDRT)					3.99° @ 6,445' and 6,745'				
Deviation at TD					3.99°				
SERVICE COMPANIES AND CONTRACTORS									
WSGs					Waters Petroleum Advisors				
Mudlogging					Sperry Drilling				
Wireline Logging					Schlumberger				
LWD/MWD					Sperry Drilling				
Coring					n/a				
Mud					MI-Swaco				
Cementing					Halliburton				
WELL CONFIGURATION									
Hole Section (")	Maximum Depth		Mud Weight ppg	Casing/Liner	Csg Diameter (")	Shoe Depth		FIT/LOT	
	ft MD	ft TVDSS				ft MD	ft TVDSS	Depth (ft MD)	EMW (ppg)
42	375	-299	8.6 (Sea Water)	Conductor	36	369	-293	n/a	n/a
26	1,512	-1,436	8.6	Casing	22	1,475	-1,399	1,522	12.6
17.5	2,963	-2,887	10.4	Casing	14	2,933	-2,857	2,933	14.0
12.25	5,423	-5,347	11.4	Liner	9 5/8	5,408	-5,347	5433	15.28
8.5	6,800	-6,719	12	-	-	-	-	-	-



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2. RSWC Summary Table

2.1 Brief Description of the Operation

The Rotary Sidewall Core Program performed for the Main Objective Interval consisted of 50 sidewall cores. 46 sidewall cores were ultimately collected. The Wireline Logging run was witnessed by Shell Petrophysicists. The sidewall cores were briefly analyzed at the wellsite by the Waters Wellsite Geologists. Per instruction, sidewall core sample integrity was critical. Therefore, the cores were analyzed without damaging or destroying core samples, as required for in depth analysis. Cores were prepped for basic analysis by wiping one side with a clean paper towel. The sample was then described with a hand lens while still in the clam shell. The wellsite analysis also consisted of photographing the core in plain and UV light. Hydrocarbon fluorescence and odor was described only if it was present.

PROPRIETARY

2.2 Rotary Sidewall Coring Table

Lithology only described if readily apparent

No.	Depth	Rec. (cm)	Lithology	Color	Cement	Matrix	Structures	Grain Size	Sorting	Porosity	Odor	Staining	Fluorescence	Cut Floor	Comments/PM
1	5882.3	4.2	sst	brown				vfg							Kup C
2	5887.3	4.2		brown									trace br yell		Kup C
3	5908.9	4.2	sst	brown							slight		abund br yell		Kup C
4	5924.2	4.0	sst	brown											Kup C
5	5934.7	4.0		brown		5 mm white bedding plane							t br yell		Kup C
6	5941	4.7	sst	brown											Kup C
7	5953	4.2		brown									t br yell		Kup C
8	5971	4.8	silt	brown											Kup C
9	5937.7	3.0 / 1.0	sst	lt gray				v fg							fracture/Kup C
10	5877	4.5	sst	brown				v fg							Kup C
11	5889.3	4.0		lt gray											Kup C
12	5912.6	4.5	sst	brown											Kup C
13	5930.2	4.0	sst	lt gray									inc br yell		Kup C
14	5947	3.8		dk brown						visib					Kup C
15	5982	4.5		brown											Kup C
16	5977	4.7		brown											Kup C
17	5992.7	5.0		brown											Kup A
18	5968.1	4.5		brown											Kup A
19	5965.9	4.5		brown											Kup A
20	5927.1	4.6		lt gray									scat lt yell		Kup A
21	5906.3	3.9		brown				vis gr							Kup A
22	5884.1	miss													Pebble Shale
23	5886.3	3.6		lt gray				vis gr							Kup A
24	5915.6	3.6		lt gray											Kup A
25	5944	4.3		brown to black											Kup A
26	5966	3.6		brown											Kup A
27	5980	4.6		dk brown											Kup A
28	5959	4.7		brown											Kup A
29	5918.7	4.6		lt gray											Kup A
30	5892.3	4.4	sst	lt gray											Kup A
31	5983	4.5	silt	brown											Kup A
32	5974	4.0		brown											Kup A
33	5950	4.7		dk brown to black											Kup A
34	5901.3	4.0	sst	lt gray											Kup A
35	5895.3	4	sst	lt gray				vis							Kup A
36	6480.8	4.2		brown											Kup D
37	6472.5	4.0	sst	brown											Kup D
38	6481.5	4.0	sst	brown											Kup D
39	6492.5	4.1	sst	brown											Kup D
40	6509.2	4.3		brown											Kup D
41	6521.3	4	ssi/silt	brown									even dull orange fluor		Kup D
42	6542.5	miss													Kup D
43	6529	5.0	silt	brown									even dull orange fluor		Kup D
44	6514.1	4.7		brown									common dull orange fluor		Kup D
45	6500.5	4.3		brown											Kup D
46	6487.5	4.0		brown											Kup D
47	6477	1.4 / 2.3		brown											Kup D
48	6466.5		miss												Kup D
49	6427	4.6		brown											Millweach
50	6285.2		miss												Millweach

Comments

Per instruction, cores were photographed in plain and UV light. Cores were also evaluated visually for basic observations without disturbing sample integrity. Observed Fluorescence is noted above.

3. RSWC Description

RSWC Number	1
Depth (ft MD)	5882.3'
Formation	C Sand
Lithology	Sandstone
RSWC Size (cm)	4.2

RSWC Photo



Description: Brown, very fine grain size

RSWC Number	2
Depth (ft MD)	5897.3'
Formation	C Sand
Lithology	-
RSWC Size (cm)	4.2
RSWC Photo	
<u>Description:</u> Brown, trace bright yellow fluorescence	

RSWC Number	3
Depth (ft MD)	5908.9
Formation	C Sand
Lithology	Sandstone
RSWC Size (cm)	4.2

RSWC Photo



Description: Brown, slight hydrocarbon odor, abundant bright yellow fluorescence



Shell OCS-Y-2321 Burger J 001 Posey Block 6912

RSWC Number	4
Depth (ft MD)	5924.2'
Formation	C Sand
Lithology	Sandstone
RSWC Size (cm)	4.0

RSWC Photo



Description: Brown



Shell OCS-Y-2321 Burger J 001 Posey Block 6912

RSWC Number	5
Depth (ft MD)	5934.7'
Formation	C Sand
Lithology	-
RSWC Size (cm)	4.0

RSWC Photo



Description: Brown, visible white bedding planes ~5mm in length, trace bright yellow fluorescence




Shell OCS-Y-2321 Burger J 001 Posey Block 6912

RSWC Number	6
Depth (ft MD)	5941.0'
Formation	C Sand
Lithology	Sandstone
RSWC Size (cm)	4.7
RSWC Photo	
<p><u>Description:</u> Brown</p>	



Shell OCS-Y-2321 Burger J 001 Posey Block 6912

RSWC Number	7
Depth (ft MD)	5953.0'
Formation	C Sand
Lithology	-
RSWC Size (cm)	4.2
RSWC Photo	
<u>Description:</u> Brown, trace bright yellow fluorescence	



Shell OCS-Y-2321 Burger J 001 Posey Block 6912

RSWC Number	8
Depth (ft MD)	5971.0'
Formation	C Sand
Lithology	Siltstone
RSWC Size (cm)	4.8

RSWC Photo



Description: Brown



Shell OCS-Y-2321 Burger J 001 Posey Block 6912

RSWC Number	9
Depth (ft MD)	5937.7'
Formation	C Sand
Lithology	Sandstone
RSWC Size (cm)	3.0 / 1.0

RSWC Photo



Description: Light gray, very fine grained, core was fractured



Shell OCS-Y-2321 Burger J 001 Posey Block 6912

RSWC Number	10
Depth (ft MD)	5877.0'
Formation	C Sand
Lithology	Sandstone
RSWC Size (cm)	4.5

RSWC Photo



Description: Brown, very fine grained



Shell OCS-Y-2321 Burger J 001 Posey Block 6912

RSWC Number	11
Depth (ft MD)	5889.3'
Formation	C Sand
Lithology	-
RSWC Size (cm)	4.0


RSWC Photo



Description: Light gray



Shell OCS-Y-2321 Burger J 001 Posey Block 6912

RSWC Number	12
Depth (ft MD)	5912.6'
Formation	C Sand
Lithology	Sandstone
RSWC Size (cm)	4.5
RSWC Photo	
	
<u>Description:</u> Brown	

RSWC Number	13
Depth (ft MD)	5930.2'
Formation	C Sand
Lithology	Sandstone
RSWC Size (cm)	4.0

RSWC Photo



Description: Light gray, visible porosity, Increasing bright yellow fluorescence



Shell OCS-Y-2321 Burger J 001 Posey Block 6912

RSWC Number	14
Depth (ft MD)	5947.0'
Formation	C Sand
Lithology	-
RSWC Size (cm)	3.8


RSWC Photo



Description: Dark brown



Shell OCS-Y-2321 Burger J 001 Posey Block 6912

RSWC Number	15
Depth (ft MD)	5962.0'
Formation	C Sand
Lithology	-
RSWC Size (cm)	4.5
RSWC Photo	
<u>Description:</u> Brown	



Shell OCS-Y-2321 Burger J 001 Posey Block 6912

RSWC Number	16
Depth (ft MD)	5977.0'
Formation	C Sand
Lithology	-
RSWC Size (cm)	4.7
RSWC Photo	
<u>Description:</u> Brown	



Shell OCS-Y-2321 Burger J 001 Posey Block 6912

RSWC Number	17
Depth (ft MD)	5992.7'
Formation	A Sand
Lithology	-
RSWC Size (cm)	5.0
RSWC Photo	 <p>A photograph of a dark, wet, brownish sample, likely a rock core or sediment, held in a container. The sample is dark and glistening with moisture. A large red watermark 'PROPRIETARY' is overlaid diagonally across the image.</p>
<u>Description:</u> Brown	



Shell OCS-Y-2321 Burger J 001 Posey Block 6912

RSWC Number	18
Depth (ft MD)	5968.1'
Formation	A Sand
Lithology	-
RSWC Size (cm)	4.5

RSWC Photo



Description: Brown



Shell OCS-Y-2321 Burger J 001 Posey Block 6912

RSWC Number	19
Depth (ft MD)	5955.9'
Formation	A Sand
Lithology	-
RSWC Size (cm)	4.5

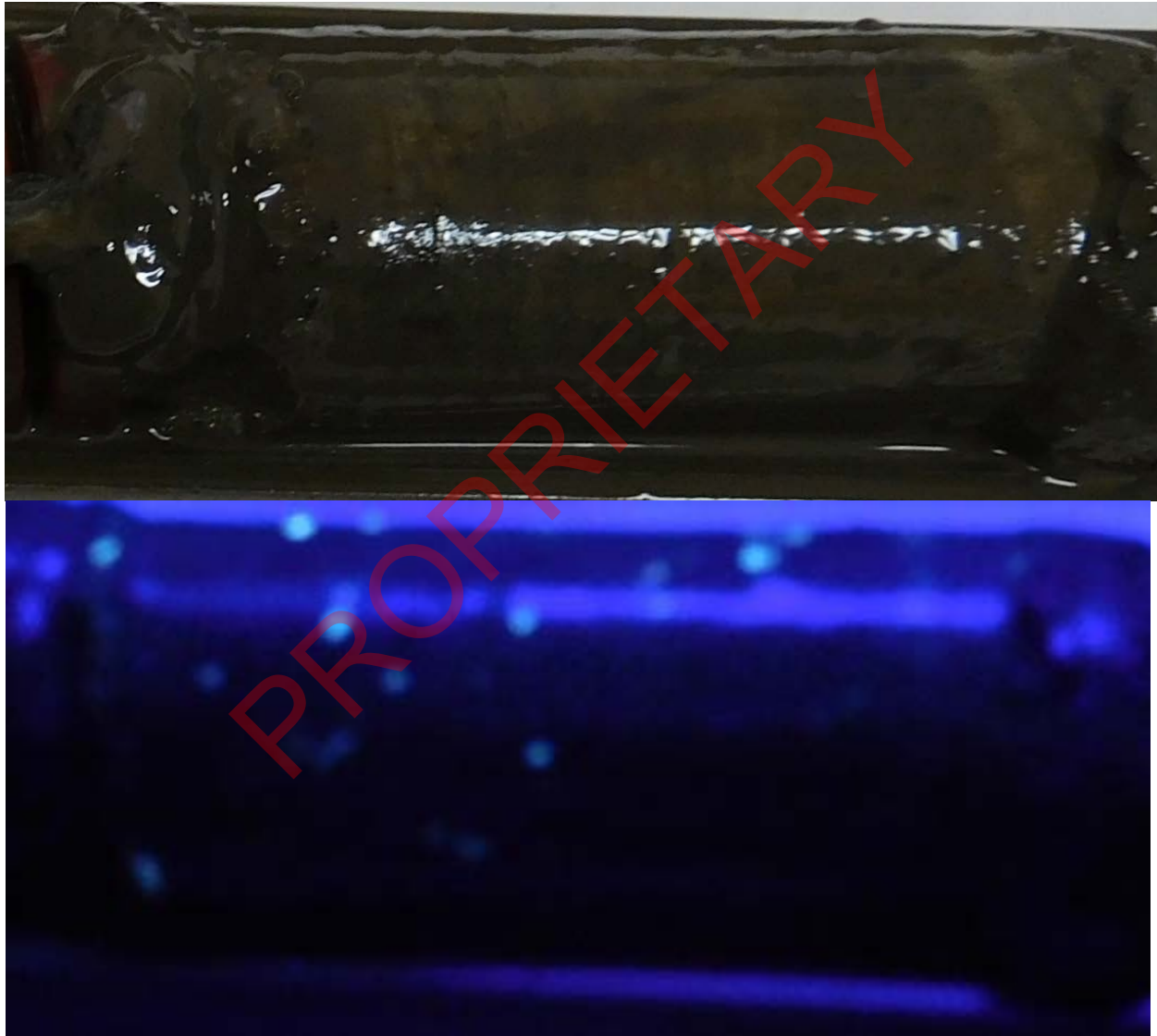
RSWC Photo



Description: Brown

RSWC Number	20
Depth (ft MD)	5927.1'
Formation	A Sand
Lithology	-
RSWC Size (cm)	4.6

RSWC Photo



Description: Light gray, scattered light yellow fluorescence



Shell OCS-Y-2321 Burger J 001 Posey Block 6912

RSWC Number	21
Depth (ft MD)	5906.3'
Formation	A Sand
Lithology	-
RSWC Size (cm)	3.9

RSWC Photo



Description: Brown, visible grains



Shell OCS-Y-2321 Burger J 001 Posey Block 6912

RSWC Number	22
Depth (ft MD)	5906.3'
Formation	Pebble Shale
Lithology	-
RSWC Size (cm)	SAMPLE MISSED
RSWC Photo	 <p>PROPRIETARY</p>
<u>Description:</u> Sample was missed	



Shell OCS-Y-2321 Burger J 001 Posey Block 6912

RSWC Number	23
Depth (ft MD)	5886.3'
Formation	A Sand
Lithology	-
RSWC Size (cm)	3.6

RSWC Photo



Description: Light gray, visible grains



Shell OCS-Y-2321 Burger J 001 Posey Block 6912

RSWC Number	24
Depth (ft MD)	5915.6'
Formation	A Sand
Lithology	-
RSWC Size (cm)	3.6


RSWC Photo



Description: Light gray



Shell OCS-Y-2321 Burger J 001 Posey Block 6912

RSWC Number	25
Depth (ft MD)	5944.0'
Formation	A Sand
Lithology	-
RSWC Size (cm)	4.3
RSWC Photo	
<u>Description:</u> Brown to black	




Shell OCS-Y-2321 Burger J 001 Posey Block 6912

RSWC Number	26
Depth (ft MD)	5965.0'
Formation	A Sand
Lithology	-
RSWC Size (cm)	3.6
RSWC Photo	
<p><u>Description:</u> Brown</p>	



Shell OCS-Y-2321 Burger J 001 Posey Block 6912

RSWC Number	27
Depth (ft MD)	5980'
Formation	A Sand
Lithology	-
RSWC Size (cm)	4.6
RSWC Photo	 <p>A photograph of a dark brown, moist sediment sample contained within a red plastic container. The sample has a fine, granular texture and is partially submerged in a dark liquid. A large, diagonal red watermark reading 'PROPRIETARY' is overlaid across the image.</p>
<u>Description:</u> Dark brown	



Shell OCS-Y-2321 Burger J 001 Posey Block 6912

RSWC Number	28
Depth (ft MD)	5959.0'
Formation	A Sand
Lithology	-
RSWC Size (cm)	4.7

RSWC Photo



Description: Brown




Shell OCS-Y-2321 Burger J 001 Posey Block 6912

RSWC Number	29
Depth (ft MD)	5918.7'
Formation	A Sand
Lithology	-
RSWC Size (cm)	4.6
RSWC Photo	
<p><u>Description:</u> Light gray</p>	



Shell OCS-Y-2321 Burger J 001 Posey Block 6912

RSWC Number	30
Depth (ft MD)	5892.3'
Formation	A Sand
Lithology	Sandstone
RSWC Size (cm)	4.4
RSWC Photo	
<p><u>Description:</u> Light gray</p>	

RSWC Number	31
Depth (ft MD)	5983.0'
Formation	A Sand
Lithology	Siltstone
RSWC Size (cm)	4.5

RSWC Photo



Description: Brown



Shell OCS-Y-2321 Burger J 001 Posey Block 6912

RSWC Number	32
Depth (ft MD)	5974.0'
Formation	A Sand
Lithology	-
RSWC Size (cm)	4.0

RSWC Photo



Description: Brown



Shell OCS-Y-2321 Burger J 001 Posey Block 6912

RSWC Number	33
Depth (ft MD)	5950.0'
Formation	A Sand
Lithology	-
RSWC Size (cm)	4.7

RSWC Photo



Description: Dark brown to black



Shell OCS-Y-2321 Burger J 001 Posey Block 6912

RSWC Number	34
Depth (ft MD)	5901.3'
Formation	A Sand
Lithology	Sandstone
RSWC Size (cm)	4.0

RSWC Photo



Description: Light gray



Shell OCS-Y-2321 Burger J 001 Posey Block 6912

RSWC Number	35
Depth (ft MD)	5895.3'
Formation	A Sand
Lithology	Sandstone
RSWC Size (cm)	4.0

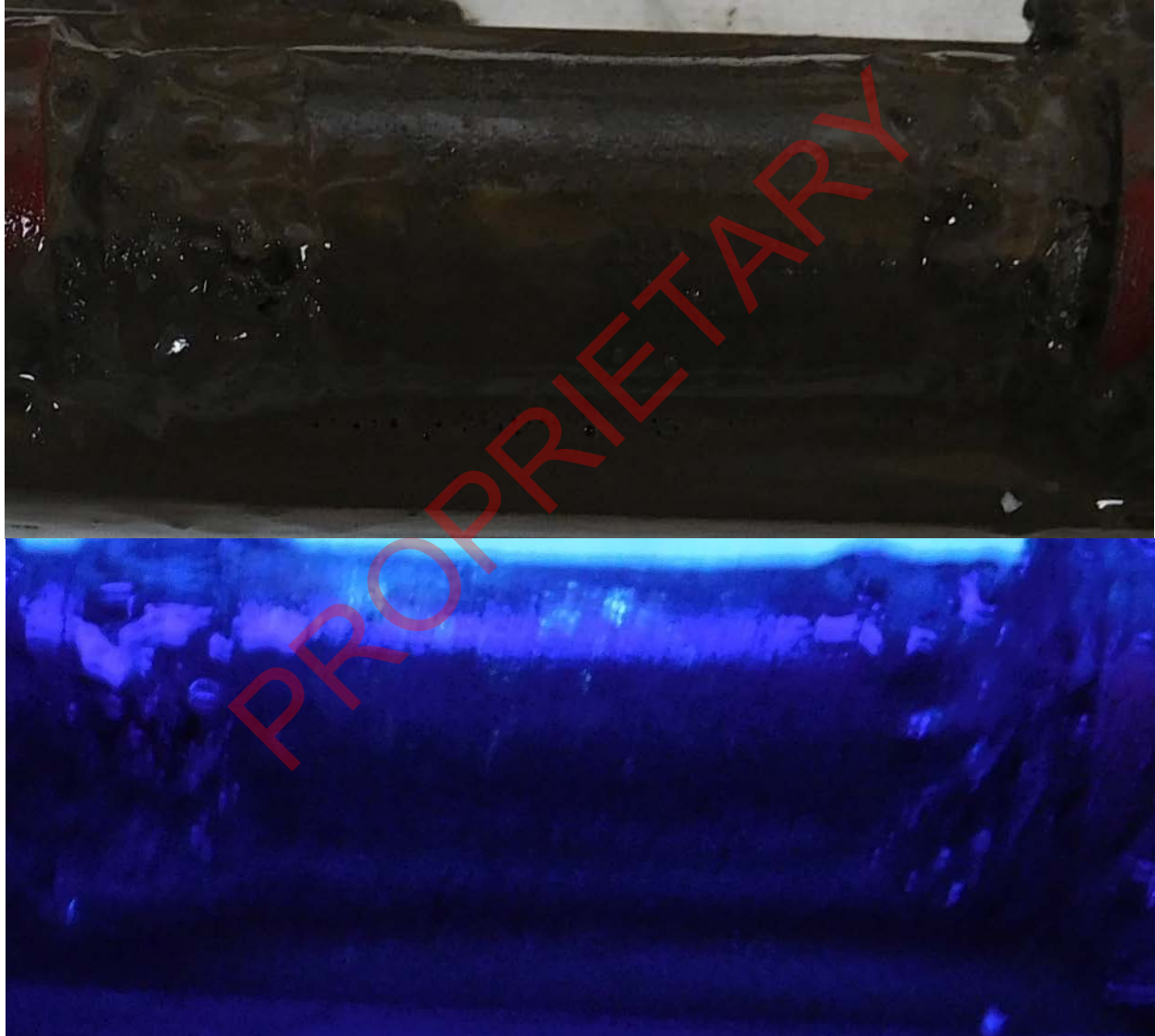
RSWC Photo



Description: Light gray, visible grain size

RSWC Number	36
Depth (ft MD)	6460.8'
Formation	D Sand
Lithology	-
RSWC Size (cm)	4.2

RSWC Photo



Description: Brown



Shell OCS-Y-2321 Burger J 001 Posey Block 6912

RSWC Number	37
Depth (ft MD)	6472.5'
Formation	D Sand
Lithology	Sandstone
RSWC Size (cm)	4.0


RSWC Photo



Description: Brown



Shell OCS-Y-2321 Burger J 001 Posey Block 6912

RSWC Number	38
Depth (ft MD)	6481.5'
Formation	D Sand
Lithology	Sandstone
RSWC Size (cm)	4.0
RSWC Photo	
<u>Description:</u> Brown	



Shell OCS-Y-2321 Burger J 001 Posey Block 6912

RSWC Number	39
Depth (ft MD)	6492.5'
Formation	D Sand
Lithology	Sandstone
RSWC Size (cm)	4.1
RSWC Photo	
<u>Description:</u> Brown	



Shell OCS-Y-2321 Burger J 001 Posey Block 6912

RSWC Number	40
Depth (ft MD)	6509.2'
Formation	D Sand
Lithology	-
RSWC Size (cm)	4.3

RSWC Photo



Description: Brown

RSWC Number	41
Depth (ft MD)	6521.3'
Formation	D Sand
Lithology	Siltstone / Sandstone
RSWC Size (cm)	4.0


RSWC Photo



Description: Brown, even dull orange fluorescence

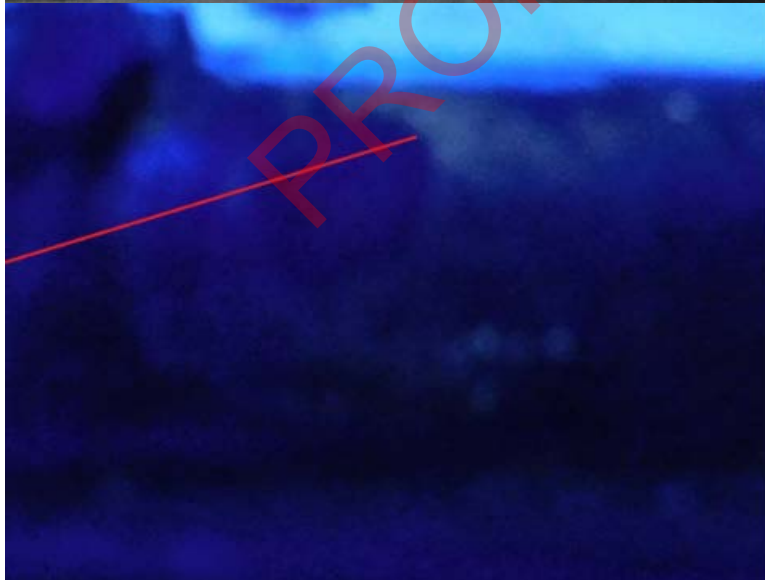


Shell OCS-Y-2321 Burger J 001 Posey Block 6912

RSWC Number	42
Depth (ft MD)	6542.5'
Formation	D Sand
Lithology	-
RSWC Size (cm)	SAMPLE MISSED
RSWC Photo	 <p>PROPRIETARY</p>
<u>Description:</u> SAMPLE WAS MISSED	

RSWC Number	43
Depth (ft MD)	6529.0'
Formation	D Sand
Lithology	Siltstone
RSWC Size (cm)	5.0

RSWC Photo



Description: Brown, even dull orange fluorescence

RSWC Number	44
Depth (ft MD)	6514.1'
Formation	D Sand
Lithology	-
RSWC Size (cm)	4.7

RSWC Photo



Description: Brown, common dull orange fluorescence



Shell OCS-Y-2321 Burger J 001 Posey Block 6912

RSWC Number	45
Depth (ft MD)	6500.5'
Formation	D Sand
Lithology	-
RSWC Size (cm)	4.3

RSWC Photo



Description: Brown

RSWC Number	46
Depth (ft MD)	6487.5'
Formation	D Sand
Lithology	-
RSWC Size (cm)	4.0

RSWC Photo



Description: Brown



Shell OCS-Y-2321 Burger J 001 Posey Block 6912

RSWC Number	47
Depth (ft MD)	6477.0'
Formation	D Sand
Lithology	-
RSWC Size (cm)	1.4 / 2.3


RSWC Photo



Description: Brown, sample was fractured




Shell OCS-Y-2321 Burger J 001 Posey Block 6912

RSWC Number	48
Depth (ft MD)	6466.5'
Formation	D Sand
Lithology	-
RSWC Size (cm)	SAMPLE MISSED
RSWC Photo	 <p>A small, dark, and heavily blurred photograph of the RSWC sample. The image is mostly black with some indistinct red and white shapes.</p>
<p><u>Description:</u> Sample was missed</p>	

PROPRIETARY




Shell OCS-Y-2321 Burger J 001 Posey Block 6912

RSWC Number	49
Depth (ft MD)	6427.0'
Formation	Milluveach
Lithology	-
RSWC Size (cm)	4.6
RSWC Photo	
<u>Description:</u> Brown	

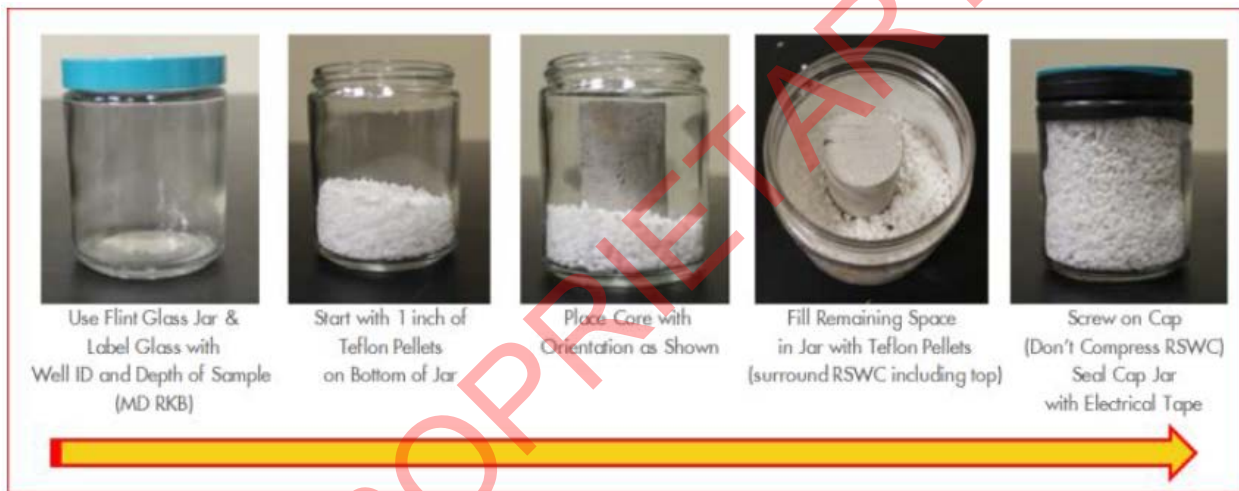


Shell OCS-Y-2321 Burger J 001 Posey Block 6912

RSWC Number	50
Depth (ft MD)	6285.2'
Formation	Milluveach
Lithology	-
RSWC Size (cm)	SAMPLE MISSED
RSWC Photo	 <p>A vertical photograph of a rock sample, showing a dark, textured surface with some reddish-brown spots. The photo is partially obscured by a large, diagonal watermark that reads 'PROPRIETARY' in red capital letters.</p>
<u>Description:</u> Sample was missed	

4. RSWC Handling and Preservation

Once a brief analysis was conducted, the RSWC were prepared for transport. Flint glass jars were utilized. Jars were labeled and filled with ~1 inch layer of Teflon chips. The core was then wiped gently with a paper towel. The core was placed in the glass jar and remaining space was filled with Teflon chips. The cap was screwed on and electrical tape was wrapped around the cap and glass jar to prevent movement. Jars were then loaded into Pelican cases for transport.



5. Original Photographs

5.1 RSWC Number 3, 2, & 1 in Plain Light.





Shell OCS-Y-2321 Burger J 001 Posey Block 6912

5.2 RSWC Number 4, 3, & 2 with Black Light.





Shell OCS-Y-2321 Burger J 001 Posey Block 6912

5.3 RSWC Number 6, 5, & 4 in Plain Light.





Shell OCS-Y-2321 Burger J 001 Posey Block 6912

5.4 RSWC Number 10, 9, 8, & 7 in Plain Light.





Shell OCS-Y-2321 Burger J 001 Posey Block 6912

5.5 RSWC Number 13, 12, & 11 in Plain Light.





Shell OCS-Y-2321 Burger J 001 Posey Block 6912

5.6 RSWC Number 13 with Black Light.





Shell OCS-Y-2321 Burger J 001 Posey Block 6912

5.7 RSWC Number 16, 15, & 14 in Plain Light.





Shell OCS-Y-2321 Burger J 001 Posey Block 6912

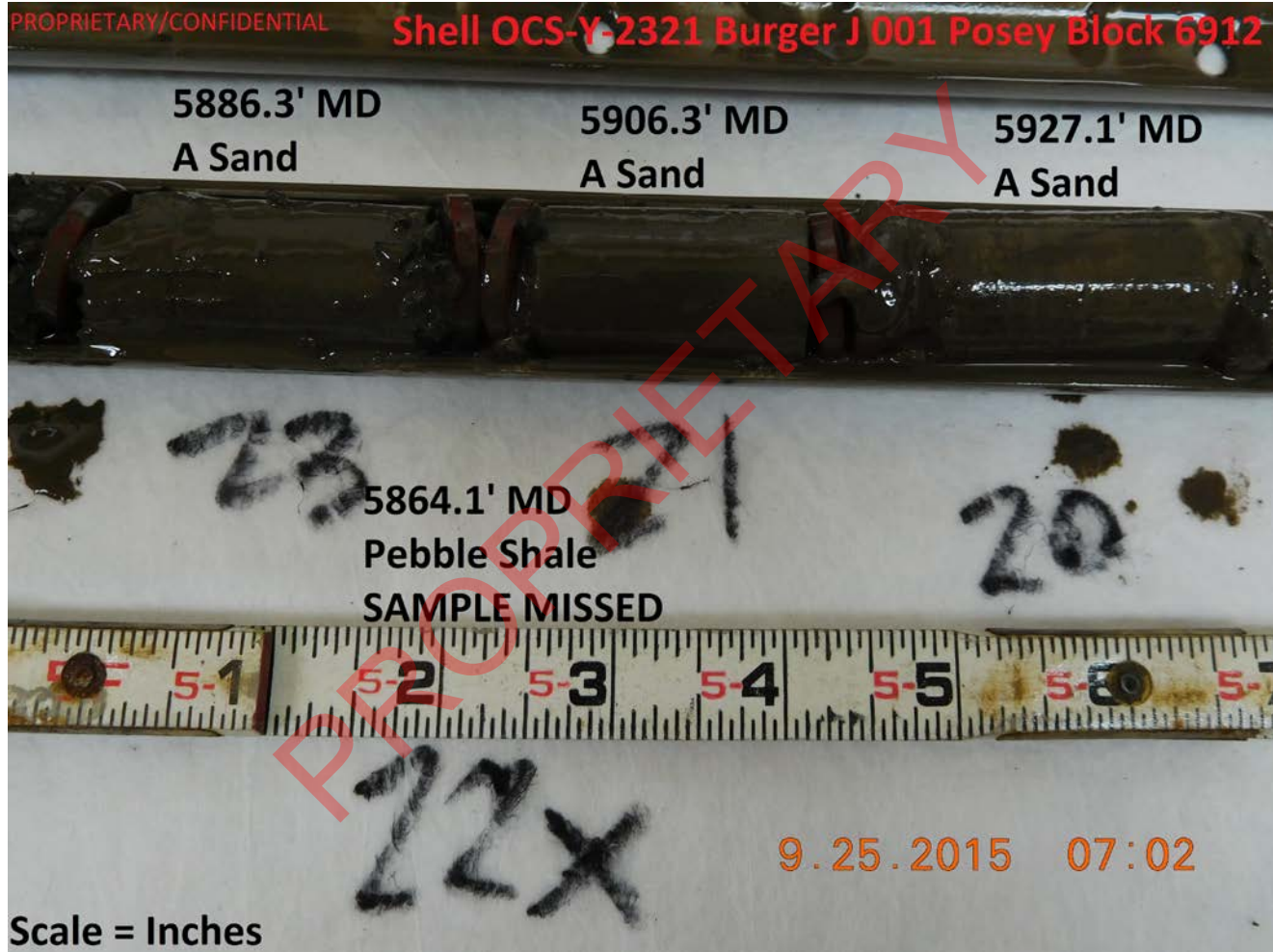
5.8 RSWC Number 19, 18, & 17 in Plain Light.





Shell OCS-Y-2321 Burger J 001 Posey Block 6912

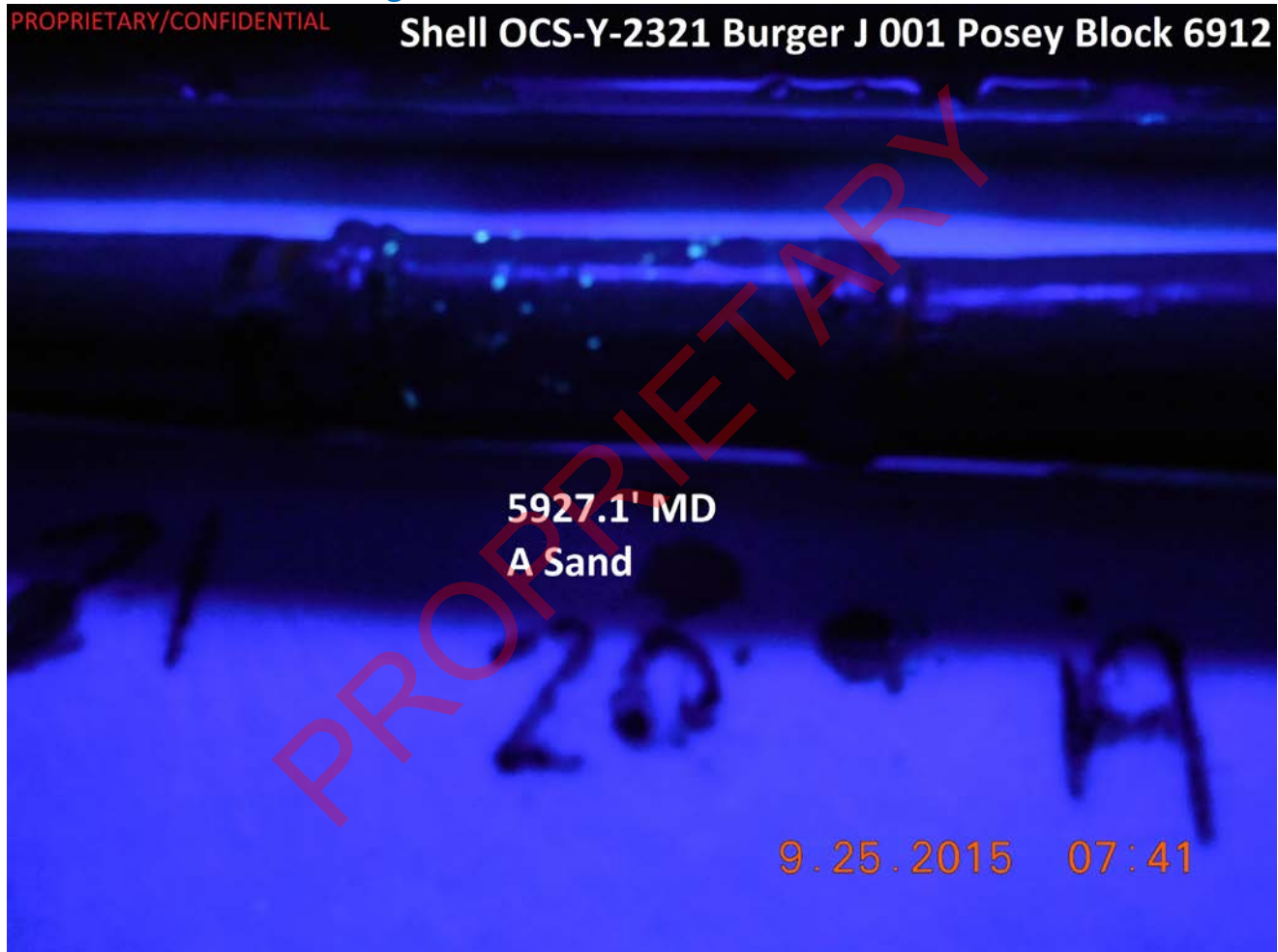
5.9 RSWC Number 23, 22x, 21, & 20 in Plain Light.





Shell OCS-Y-2321 Burger J 001 Posey Block 6912

5.10 RSWC Number 20 with Black Light.





Shell OCS-Y-2321 Burger J 001 Posey Block 6912

5.11 RSWC Number 26, 25, & 24 in Plain Light.





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5.12 RSWC Number 28 & 27 in Plain Light.





Shell OCS-Y-2321 Burger J 001 Posey Block 6912

5.13 RSWC Number 31, 30, & 29 in Plain Light.





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5.14 RSWC Number 34, 33, & 32 in Plain Light.





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5.15 RSWC Number 37, 36, & 35 in Plain Light.





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5.16 RSWC Number 37, 36, & 35 with Black Light.





Shell OCS-Y-2321 Burger J 001 Posey Block 6912

5.17 RSWC Number 40, 39, & 38 in Plain Light.





Shell OCS-Y-2321 Burger J 001 Posey Block 6912

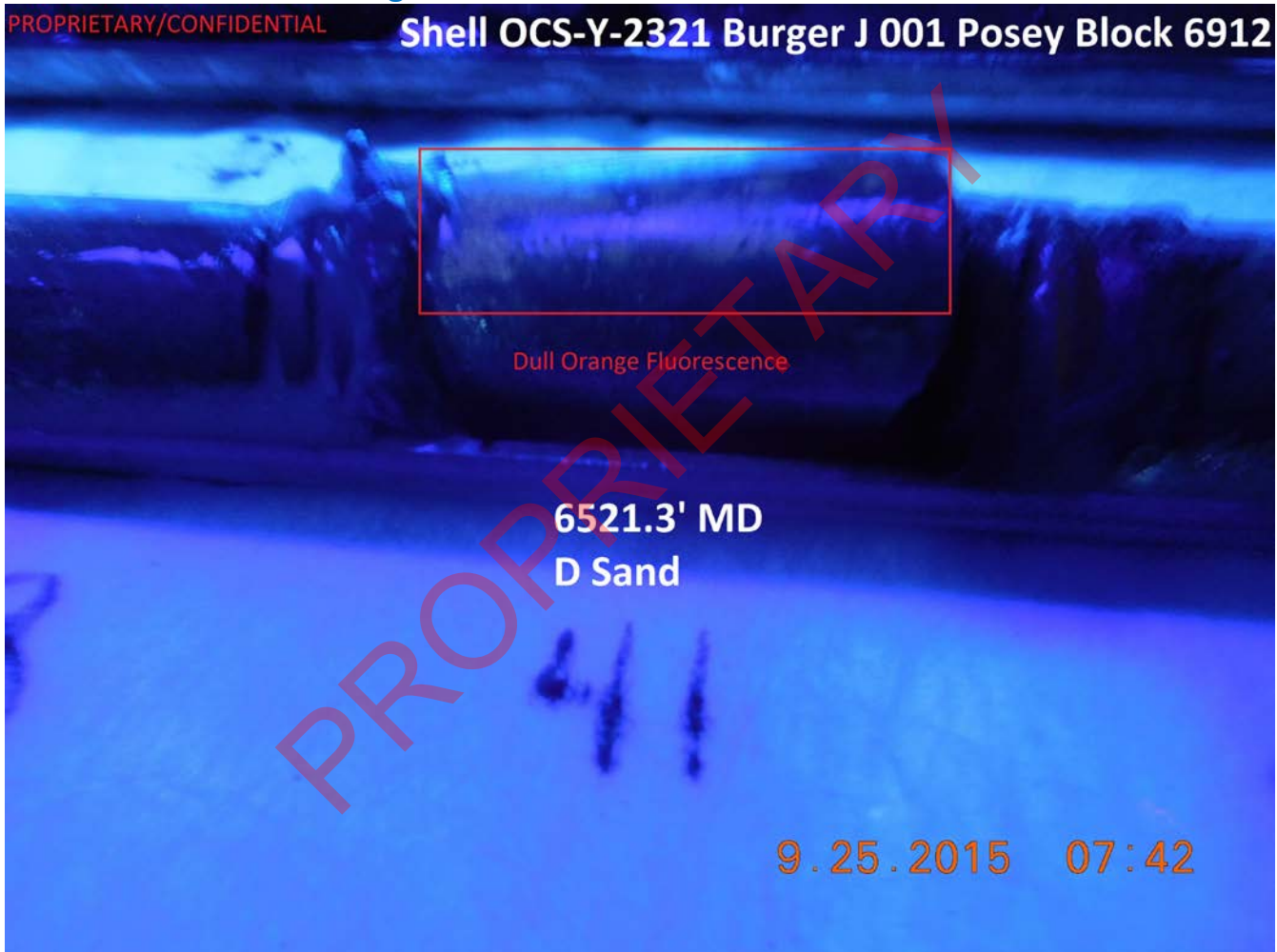
5.18 RSWC Number 44, 43, 42x, & 41 in Plain Light.





Shell OCS-Y-2321 Burger J 001 Posey Block 6912

5.19 RSWC Number 41 with Black Light.

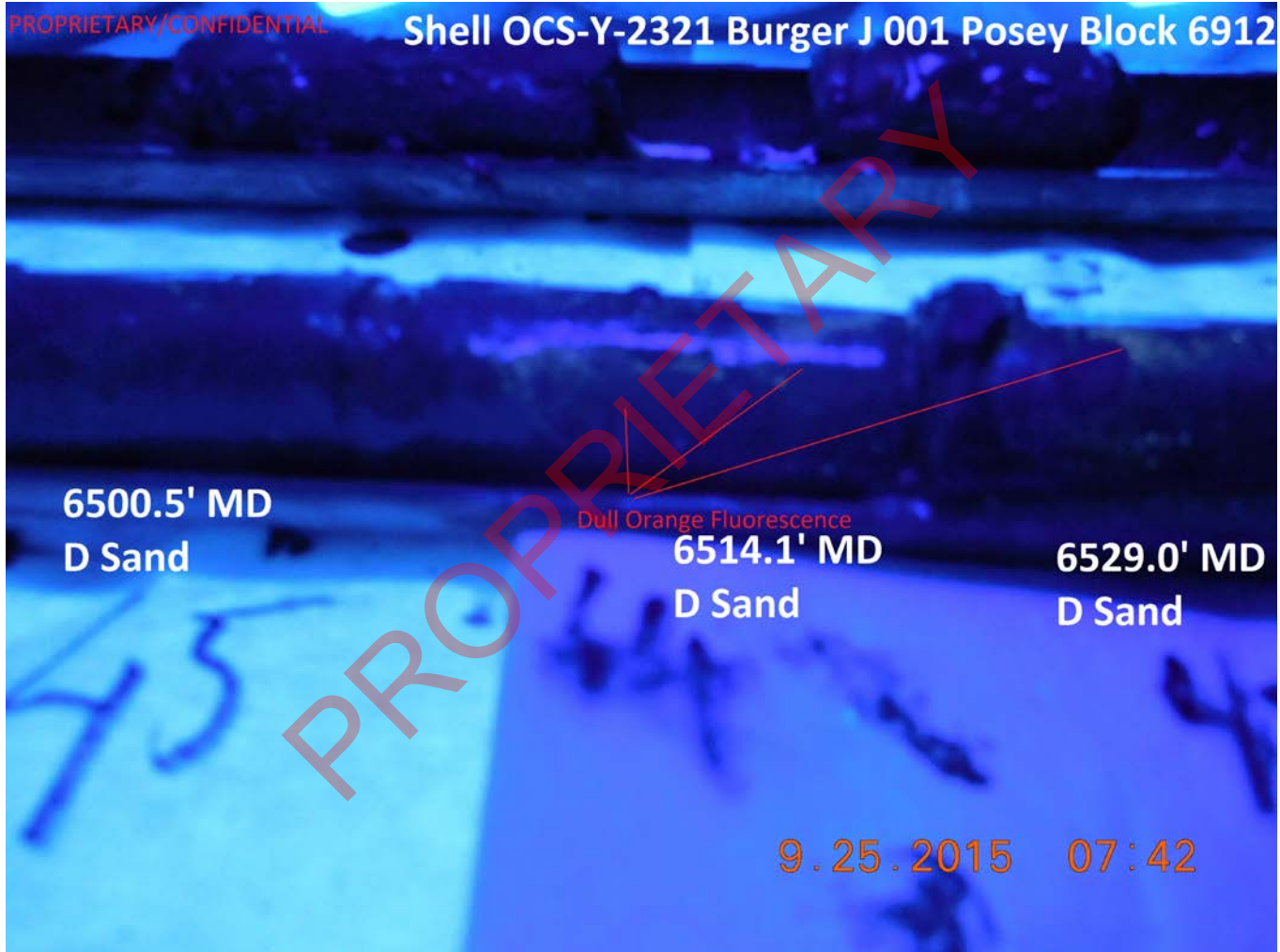




Shell OCS-Y-2321 Burger J 001 Posey Block 6912



5.20 RSWC Number 45, 44, & 43 in Plain Light.





Shell OCS-Y-2321 Burger J 001 Posey Block 6912

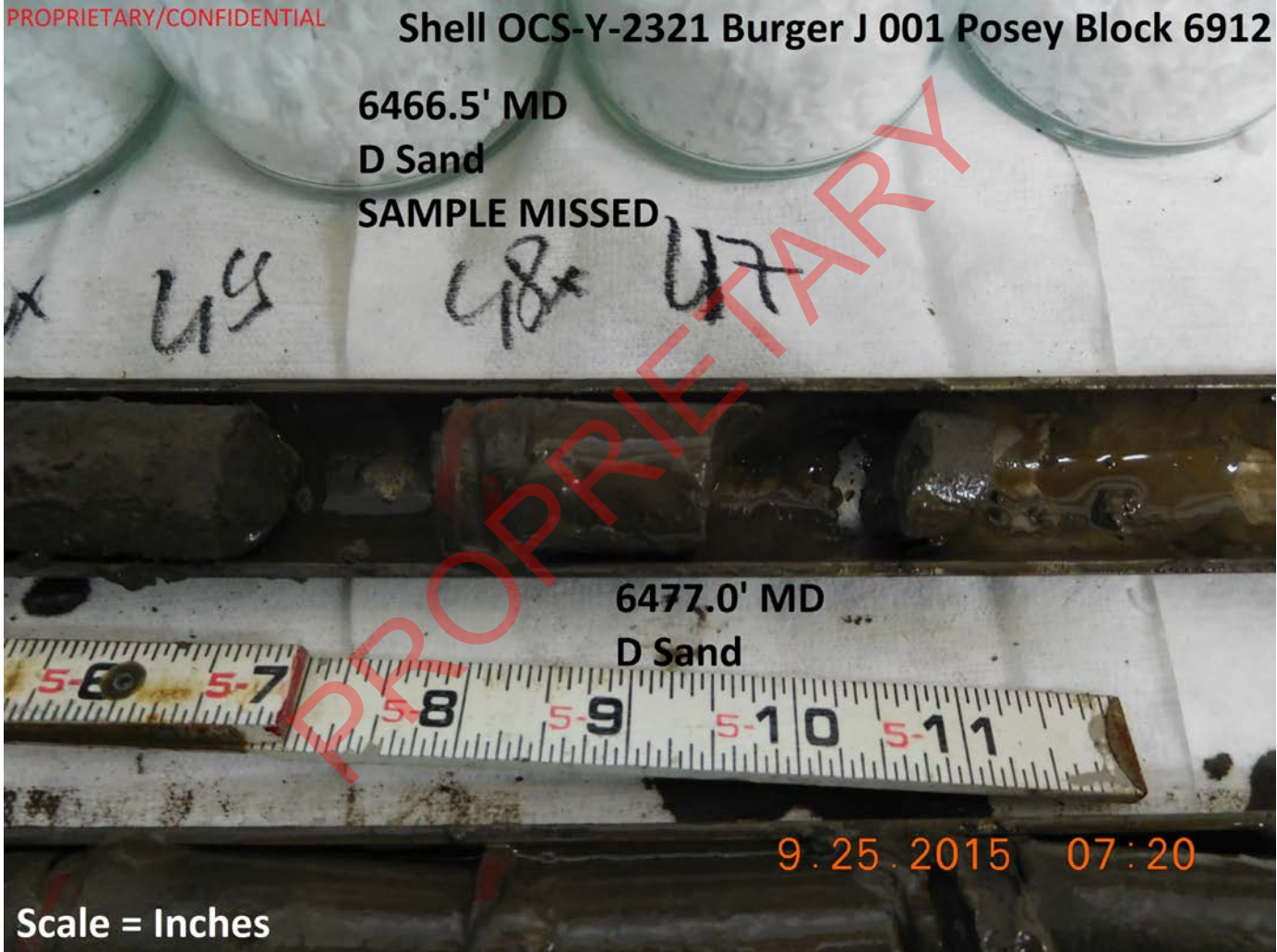
5.21 RSWC Number 46, 45, & 44 in Plain Light.





Shell OCS-Y-2321 Burger J 001 Posey Block 6912

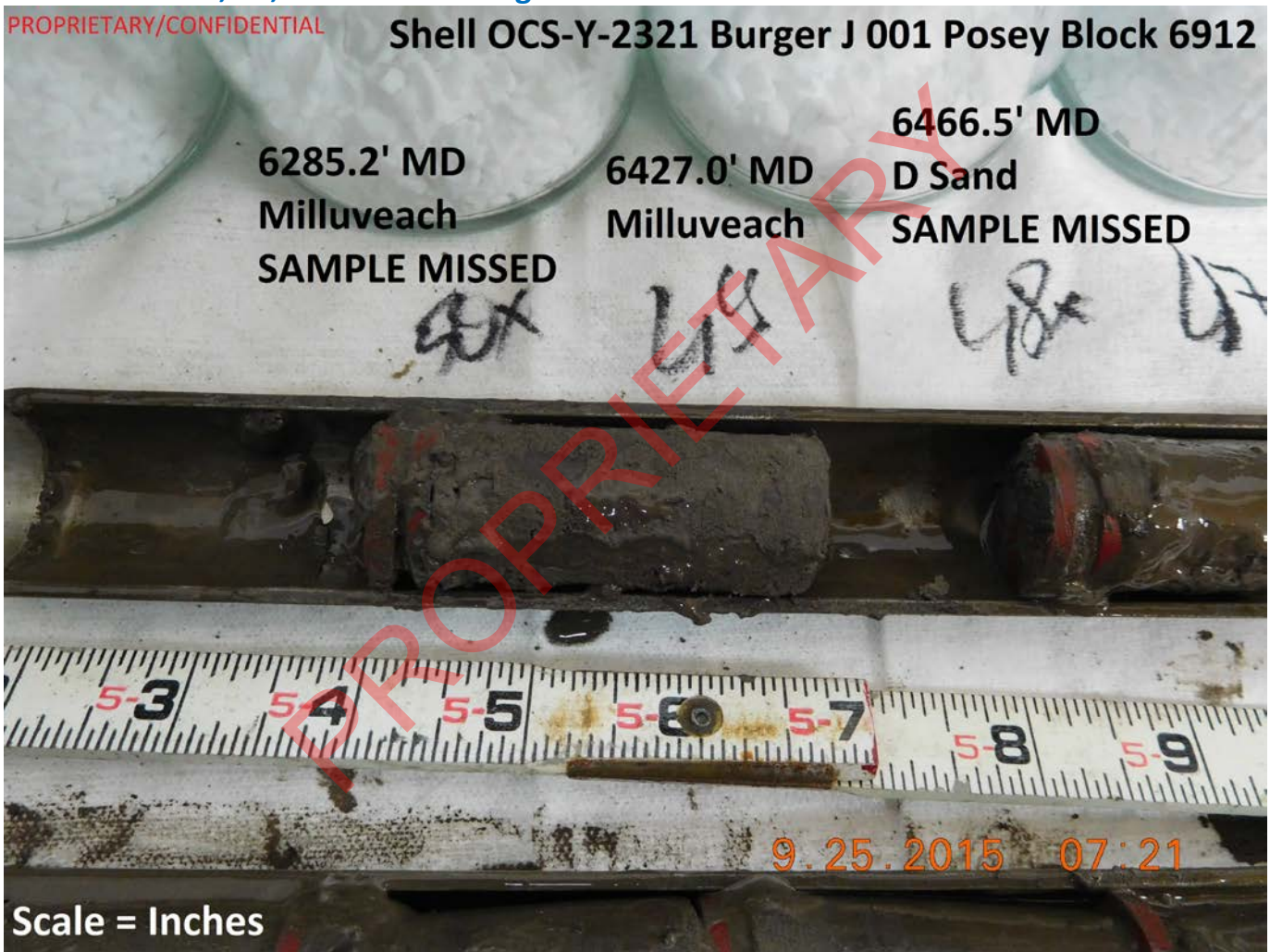
5.22 RSWC Number 47 in Plain Light.





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5.23 RSWC Number 50x, 49, & 48x in Plain Light.





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5.24 RSWC Full Barrel in Plain Light.





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5.25 RSWC Barrel with Gap between Cores.





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5.26 RSWC Barrel with Gap between Cores.

