



# *Office of Conservation*

## *Injection and Mining Division*

# *USDW Search*

*Utilizing the DNR website and SONRIS  
to perform an unofficial USDW search*

# *Underground Source of Drinking Water*

## Definition

An **Underground Source of Drinking Water** is defined by the United States Environmental Protection Agency as:

- » An aquifer or its portion which supplies any public water system; or
- » An aquifer or its portion which contains a sufficient quantity of ground water to supply a public water system; and
  - Currently supplies drinking water for human consumption; or
  - Contains fewer than 10,000 mg/l total dissolved solids and which is not an exempted aquifer.

# *Determining the Base of the USDW*

## Using an Electric Log

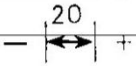
- » The IMD typically uses the deep induction curve on an e-log to define the base of the USDW. The following guidelines are used:
  - Ground surface to 1,000 feet: 3 ohms or greater is considered USDW;
  - 1,000 feet to 2,000 feet: 2 ½ ohms or greater is considered USDW; &
  - 2,000 feet and deeper: 2 ohms or greater is considered USDW
  
- » The base of the **USDW is established at the base of the sand unit** that contains the lowermost USDW with an isolating shale beneath it.
  
- » **100 feet of net shale** must exist between the top of the zone and the base of the USDW.

- **Resistivity Curve**
  - Ground surface to 1,000 feet: 3 ohms or greater
  - 1,000 feet to 2,000 feet: 2 ½ ohms or greater
  - 2,000 feet and deeper: 2 ohms or greater
- **Establish at the base of the sand unit**
- **100 feet of net shale between USDW & Top of Zone**

S.E.	210 <sup>2</sup>			Velocity (feet per second)	1,000,000
SBR	0.5			Interval Transit Time (microseconds per foot)	
Cent. Device	FIN			<input checked="" type="checkbox"/> Surface determined sonde errors used for 6FF40.	
Stand off-Inches	1 ½			<input type="checkbox"/> 6FF40 conde error corrected for	inch
Time Const.-Sec.	-			borehole signal at R <sub>m</sub> =	
Speed-F.P.M.	-			<input type="checkbox"/> 6FF40 zero set in hole at depth of	feet.

CALIBRATION DATA						
CALIBRATION:	BACKGND.	SOURCE	GALV. INCR.	SENS. TAP	SENS. TAP	TIME
	CPS.	CPS.	DIVISION	(FOR CAL.	(RECORD)	CONST.
GAMMA RAY:						

All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to Clause 7 of our General Terms and Conditions as set out in our current Price Schedule.

SPONTANEOUS POTENTIAL MILLIVOLTS	DEPTHS	RESISTIVITY OHMS. M <sup>2</sup> /M	INTERVAL TRANSIT TIME MICROSECONDS PER FOOT
		<b>DEEP INDUCTION</b> R <sub>ILD</sub>	
		0	10
		<b>FOCUSED RESISTIVITY (SFL)</b> R <sub>SFL Av.</sub>	
		0	10
		0	100
			150 Δt 50

AMP. FOCUSED RESISTIVITY

0

R<sub>SFL</sub> Av.

2

Casing

1200

1300

1400

1500

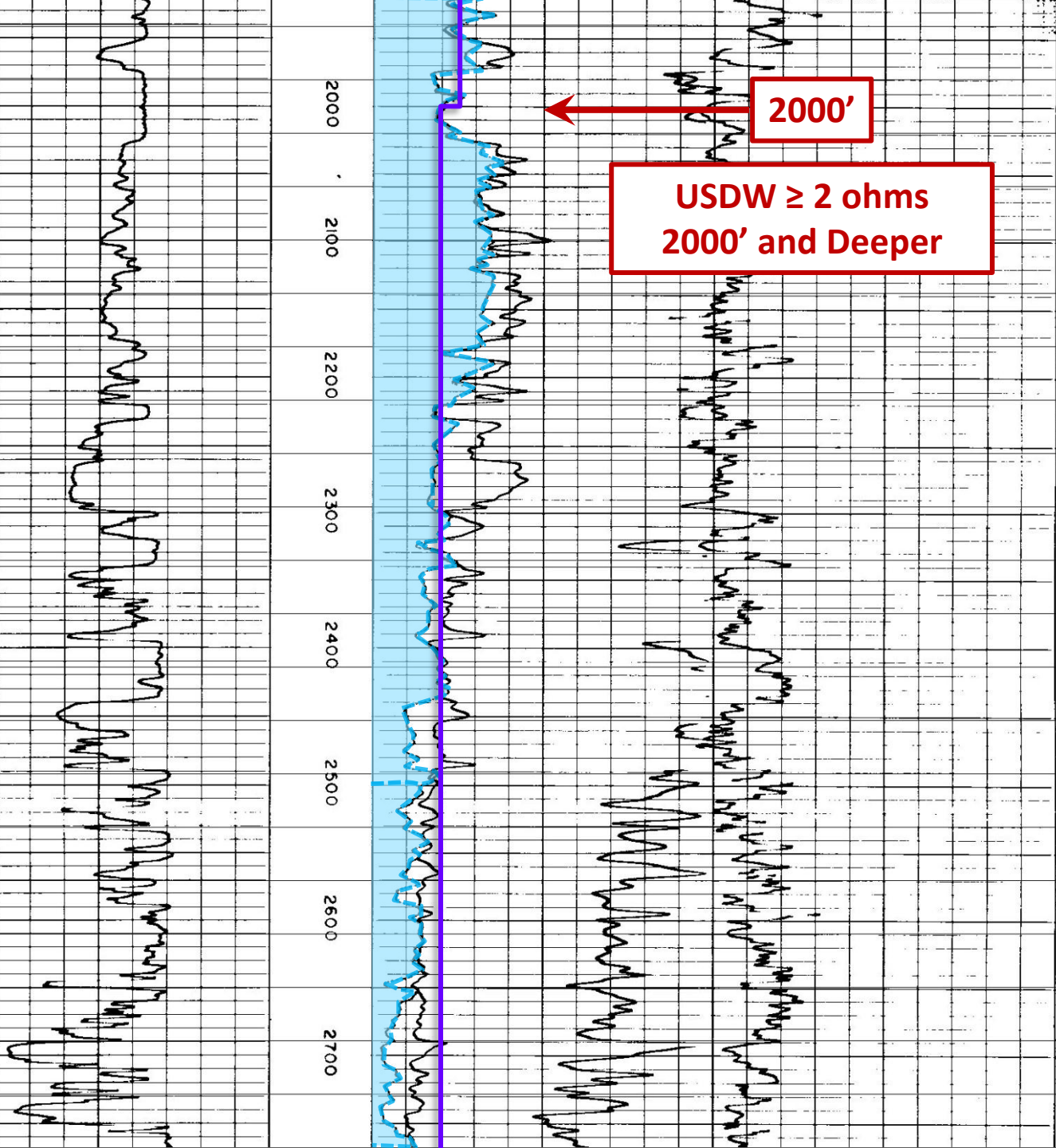
1600

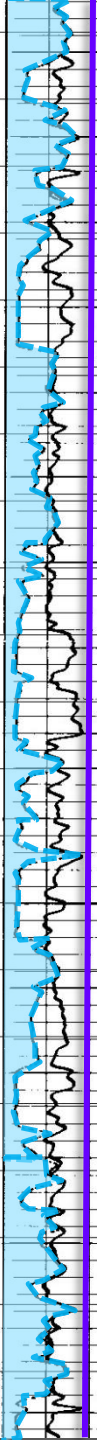
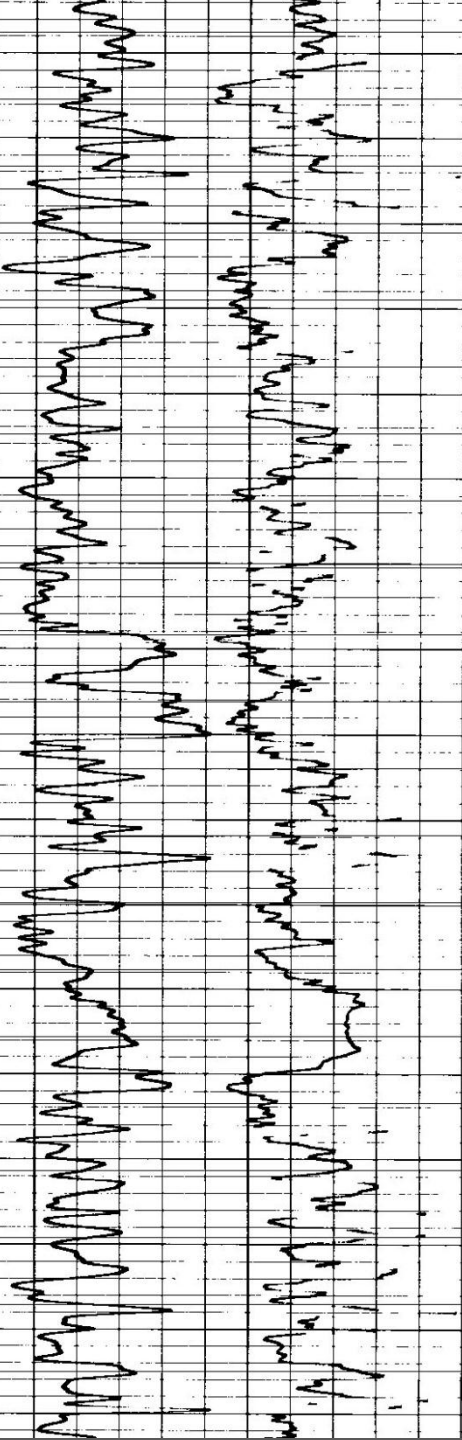
1700

1800

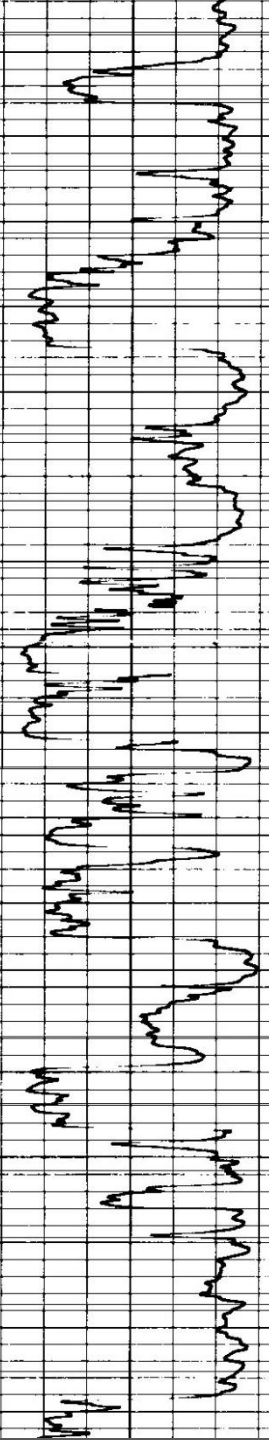
1900

USDW  $\geq 2 \frac{1}{2}$  ohms  
from 1000' - 2000'

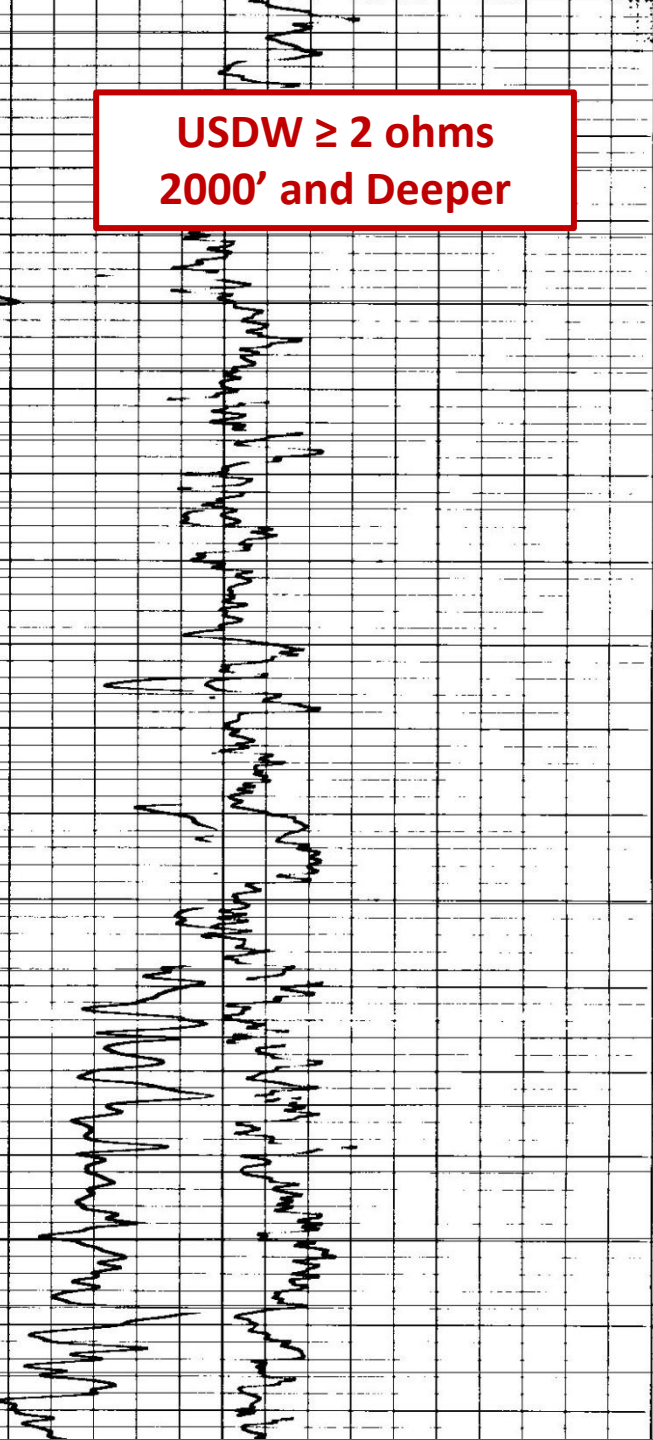
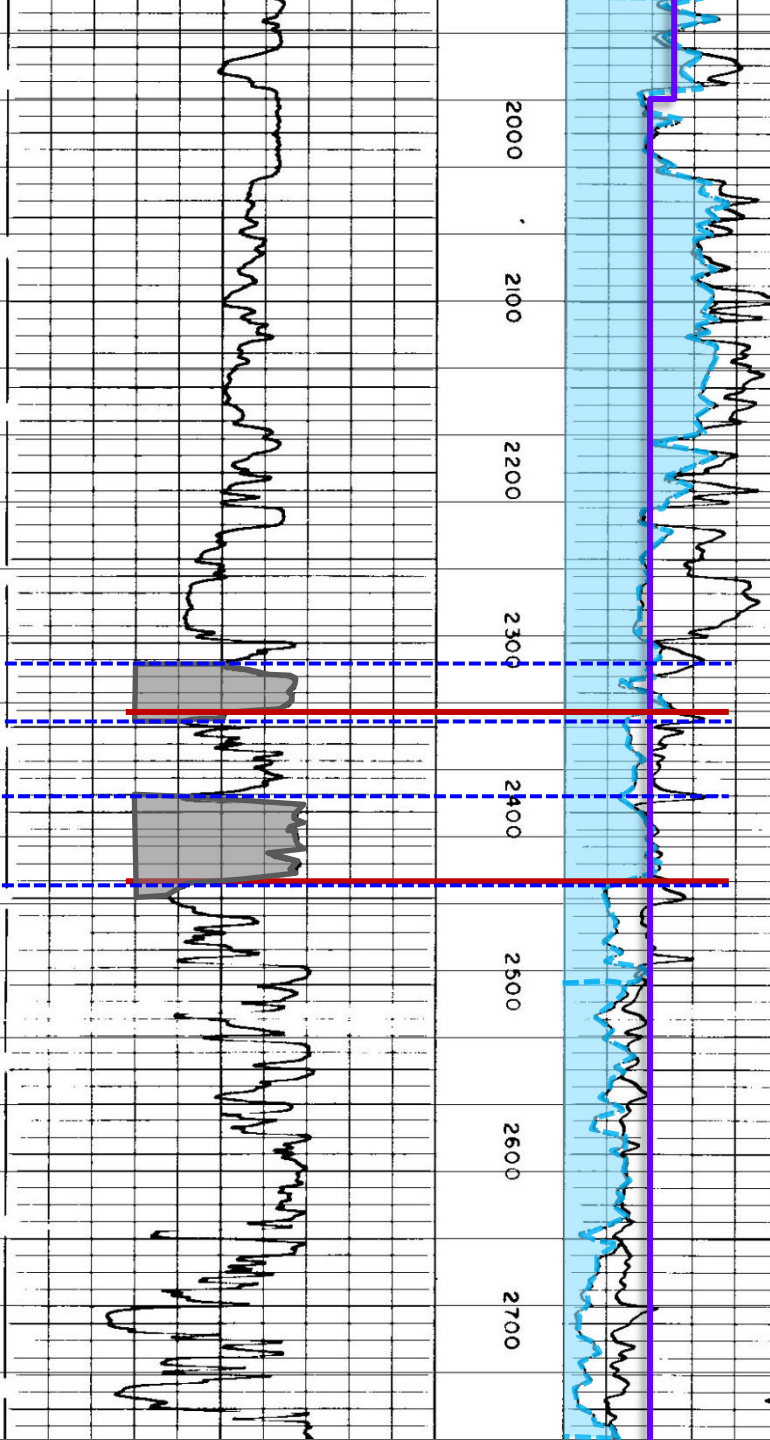




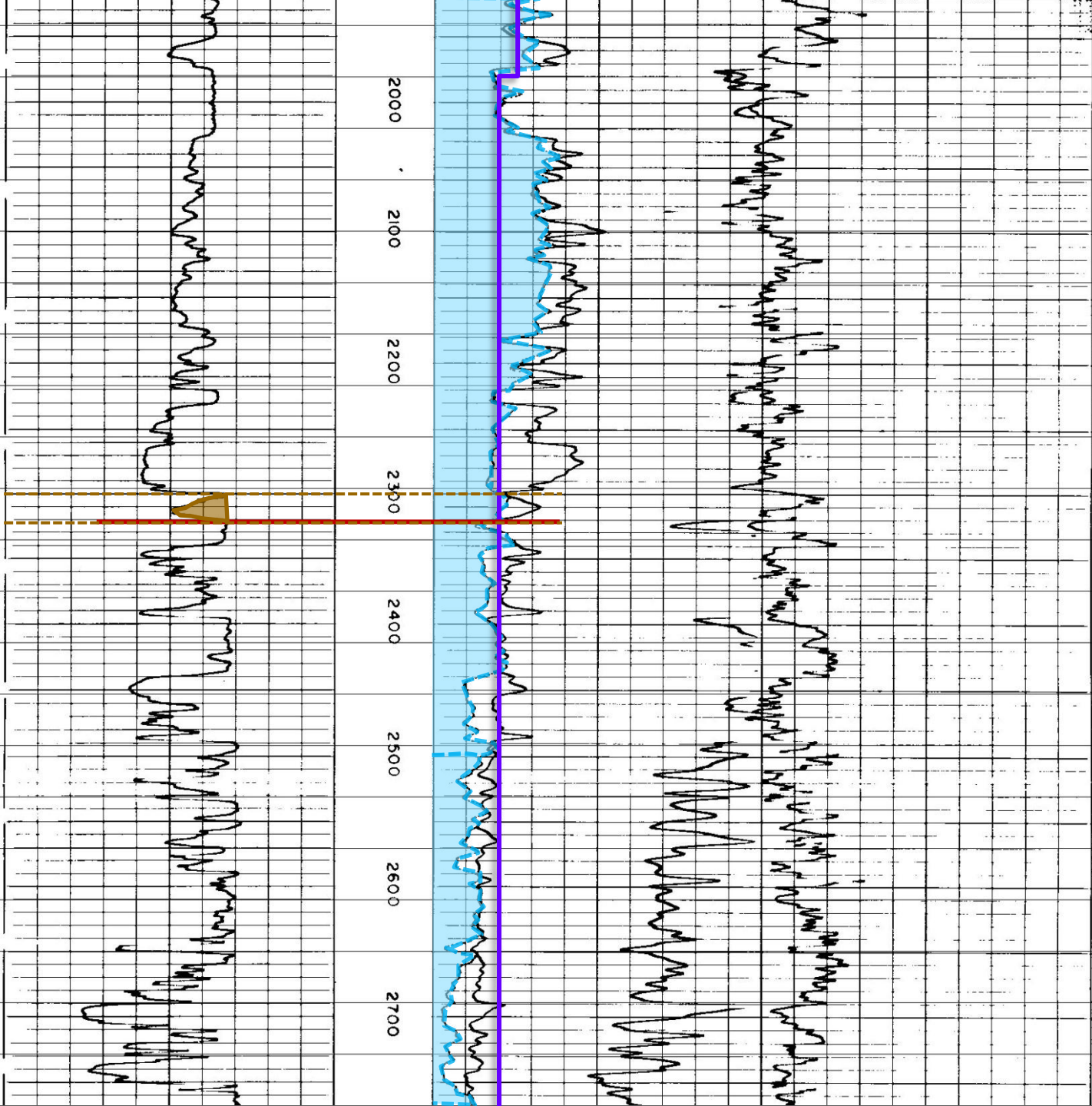
2800      2900      3000      3100      3200      3300      3400      3500      3600

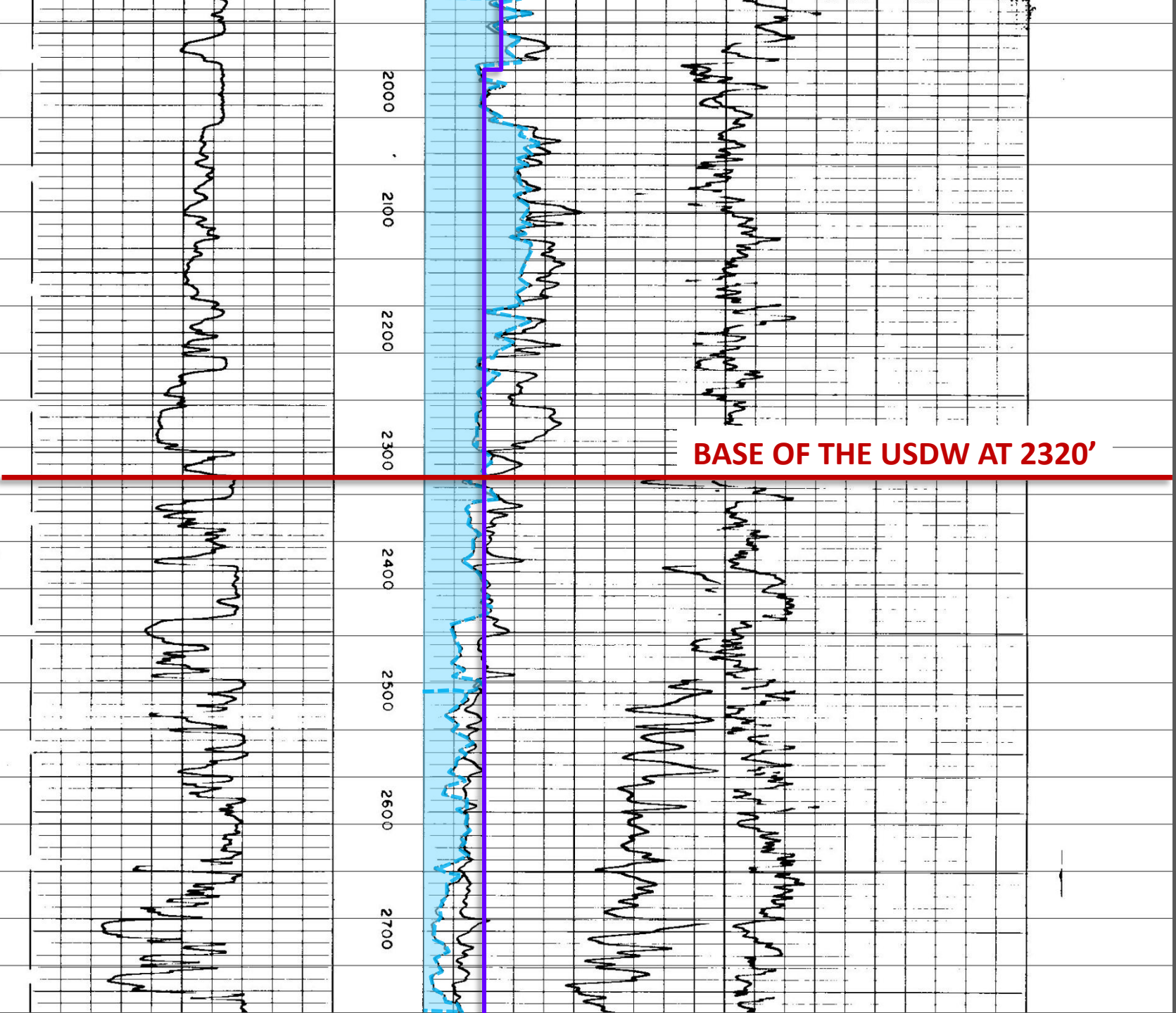


**USDW  $\geq 2$  ohms  
2000' and Deeper**

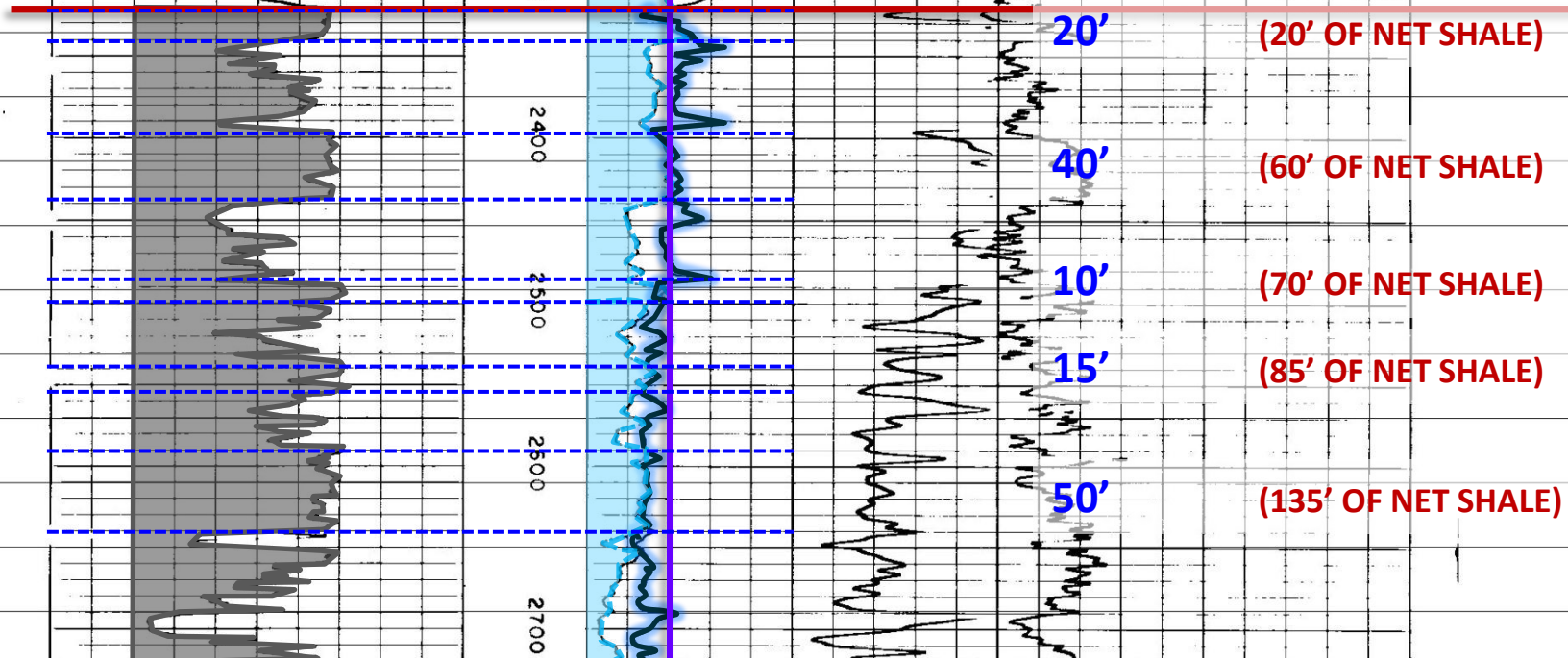


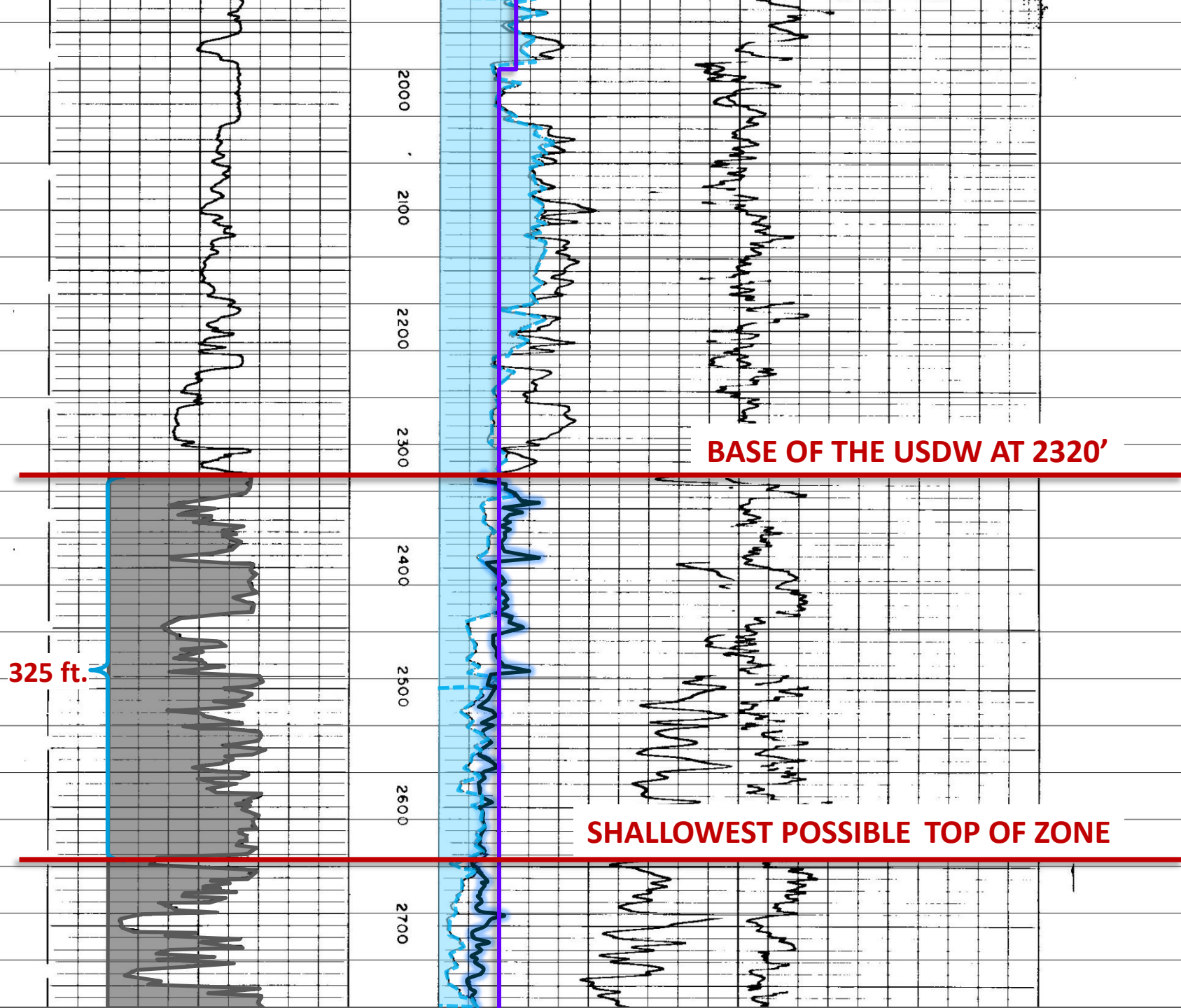






**100 feet of Net Shale between  
USDW & Top of Zone**





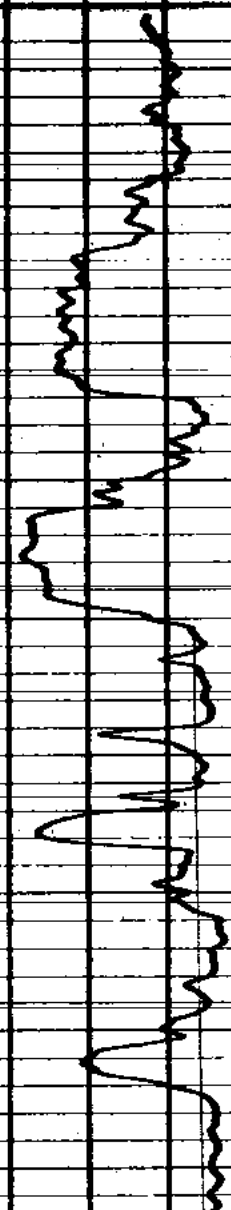
- **Resistivity Curve**
  - Ground surface to 1,000 feet: 3 ohms or greater
  - 1,000 feet to 2,000 feet: 2 ½ ohms or greater
  - 2,000 feet and deeper: 2 ohms or greater
- **Establish at the base of the sand unit**
- **100 feet of net shale between USDW & Top of Zone**

<b>First Reading</b>		: 1451	ft.
<b>Last Reading</b>		: 33 *	ft.
<b>Footage Measured</b>		: 1418	ft.
<b>Casing Shoe Depth:</b>	} DRILLER SCHLUMBERGER	: 5	ft.
<b>Bottom Depth</b>		: 1450	ft.
<b>Max. depth reached</b>	DRILLER	: 1451	ft.
<b>DIAMETER OF HOLE</b>		<b>MUD CHARACTERISTICS</b>	
from Csg	to 1450	: 13 3/4"	
from	to	:	
from	to	:	
<b>Bottom Temperature:</b>			°F
		<b>Nature:</b> Natural - chemically	
		<b>Weight:</b> 9.8	treated
		<b>Viscosity:</b> 48-50"	
		<b>Resistivity:</b> 5.8	@ 90 °F
<b>DATE</b>	May 9, 1940	<b>OBSERVERS</b>	F. H. Yeagers
<b>SELF-POTENTIAL</b>	<b>DEPTH</b>	<b>RESISTIVITY</b> -ohms. m'm.	
		— NORMAL CURVE — THIRD CURVE	

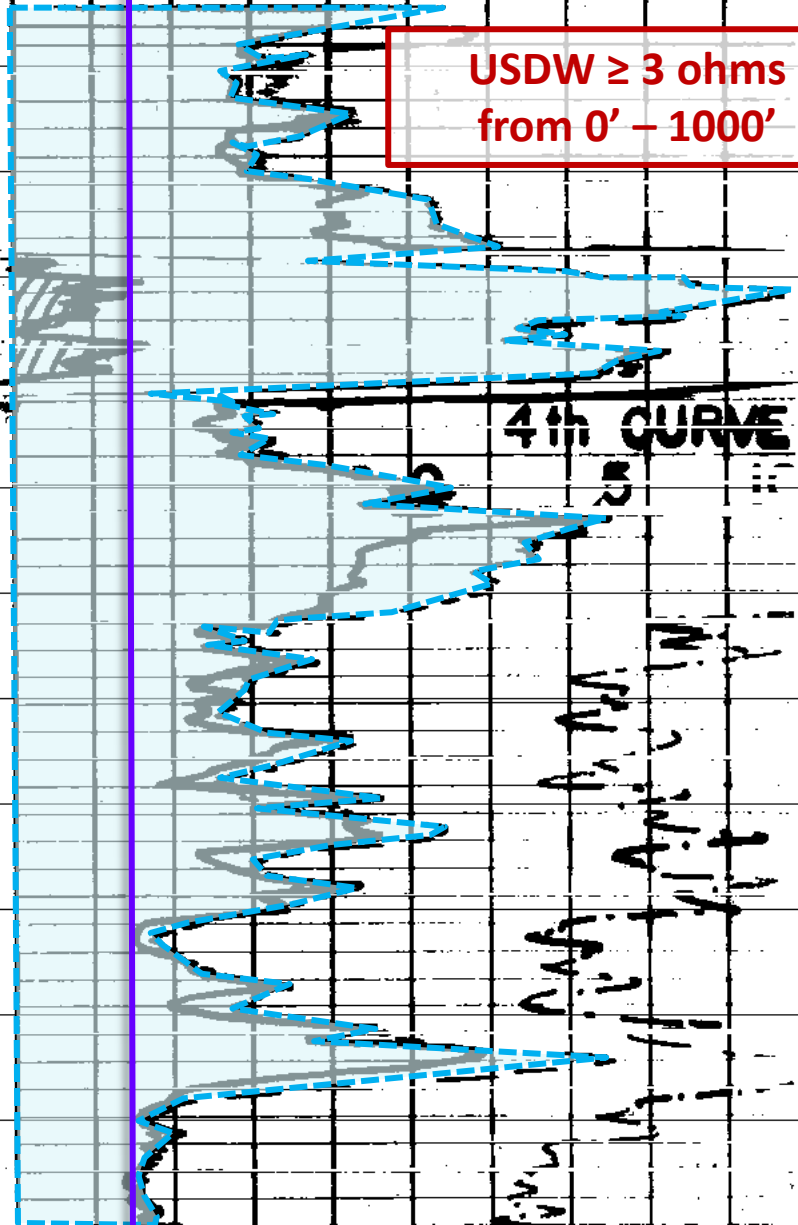
1

40 MV

0 4 8 12 16 20  
20 24 28 32 36 40

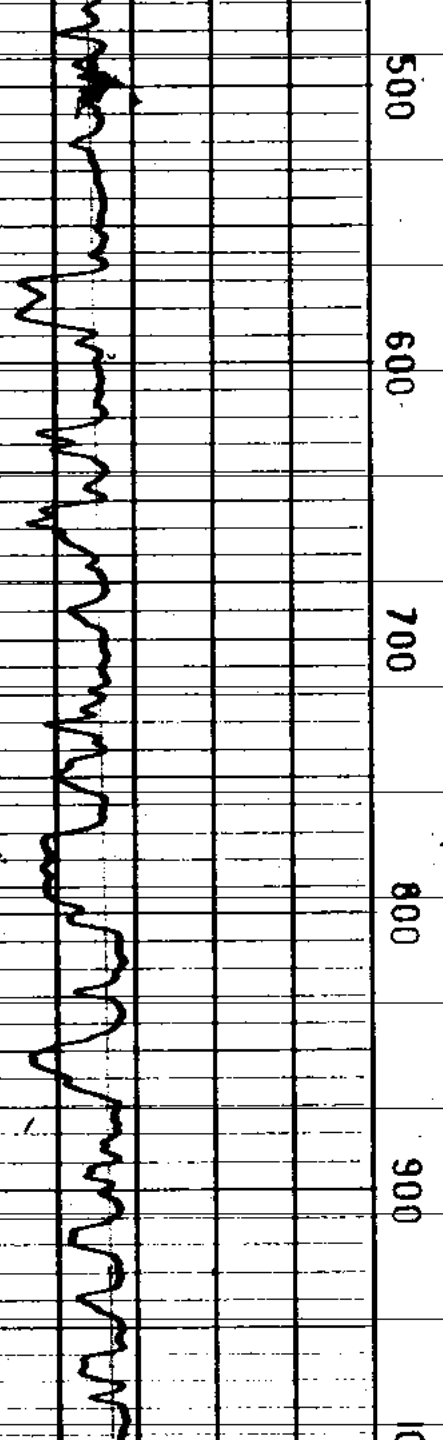
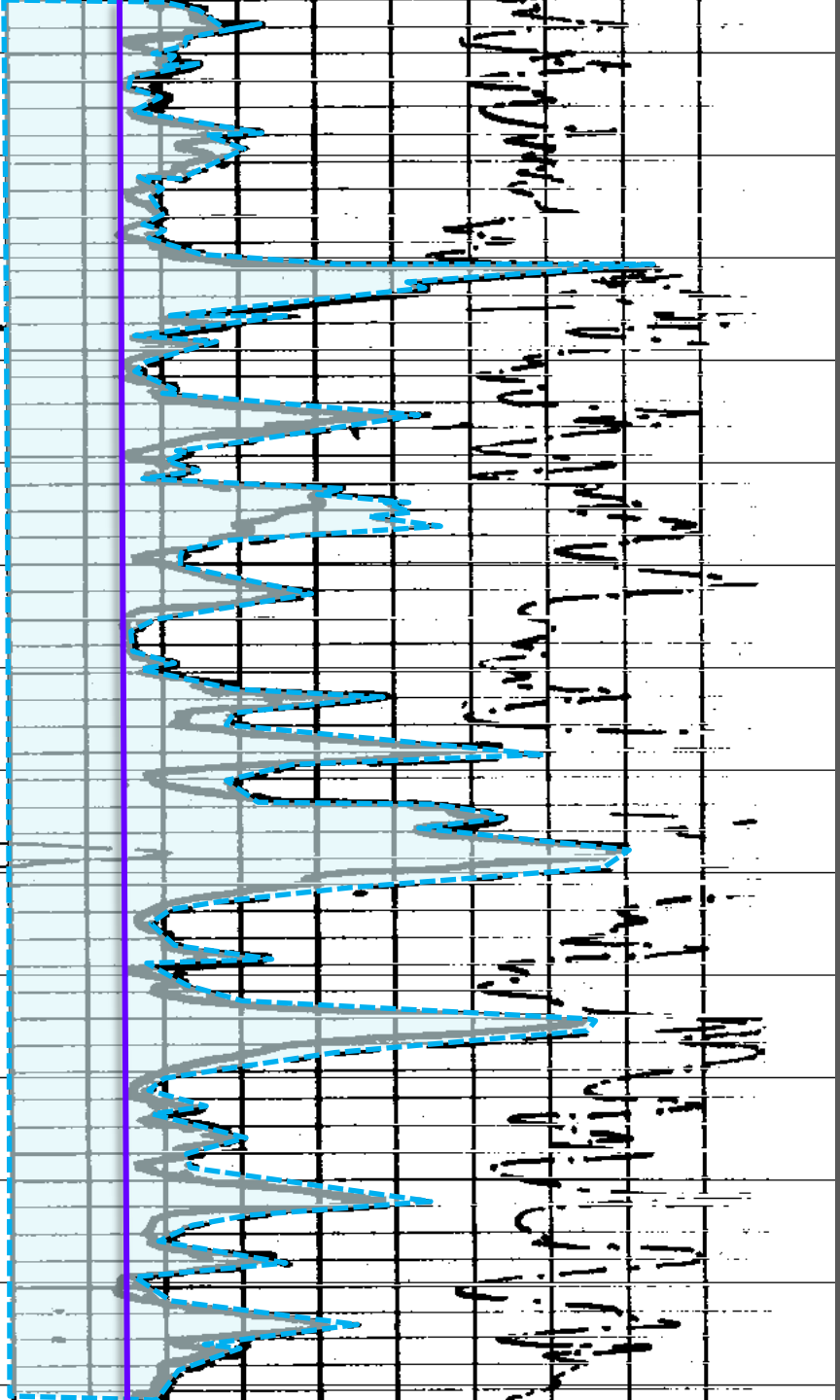


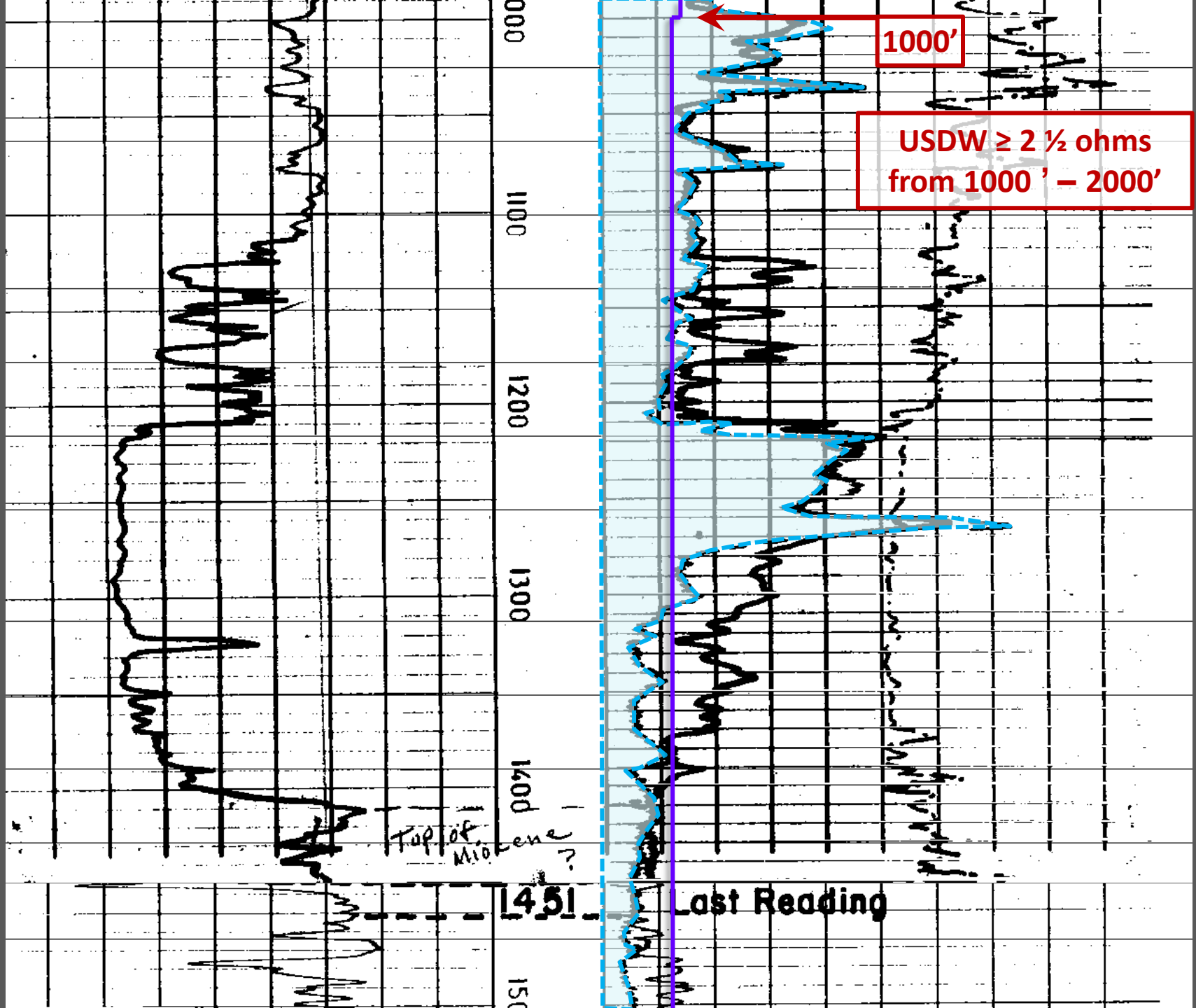
100  
200  
300  
400



USDW  $\geq$  3 ohms  
from 0' - 1000'

4th CURVE





1000'

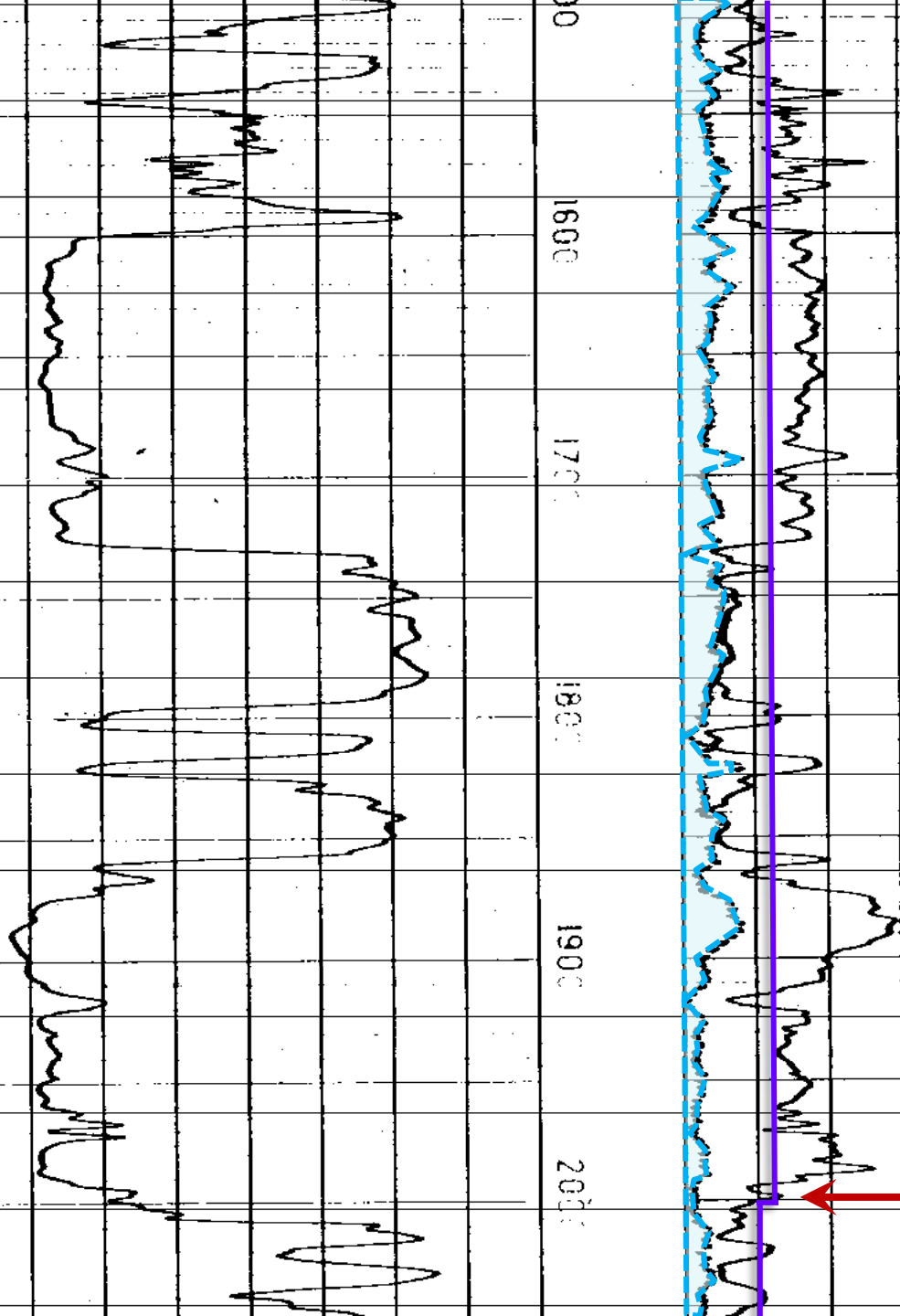
USDW  $\geq 2 \frac{1}{2}$  ohms  
from 1000' - 2000'

Top of Mio.cene?

14.51

Last Reading

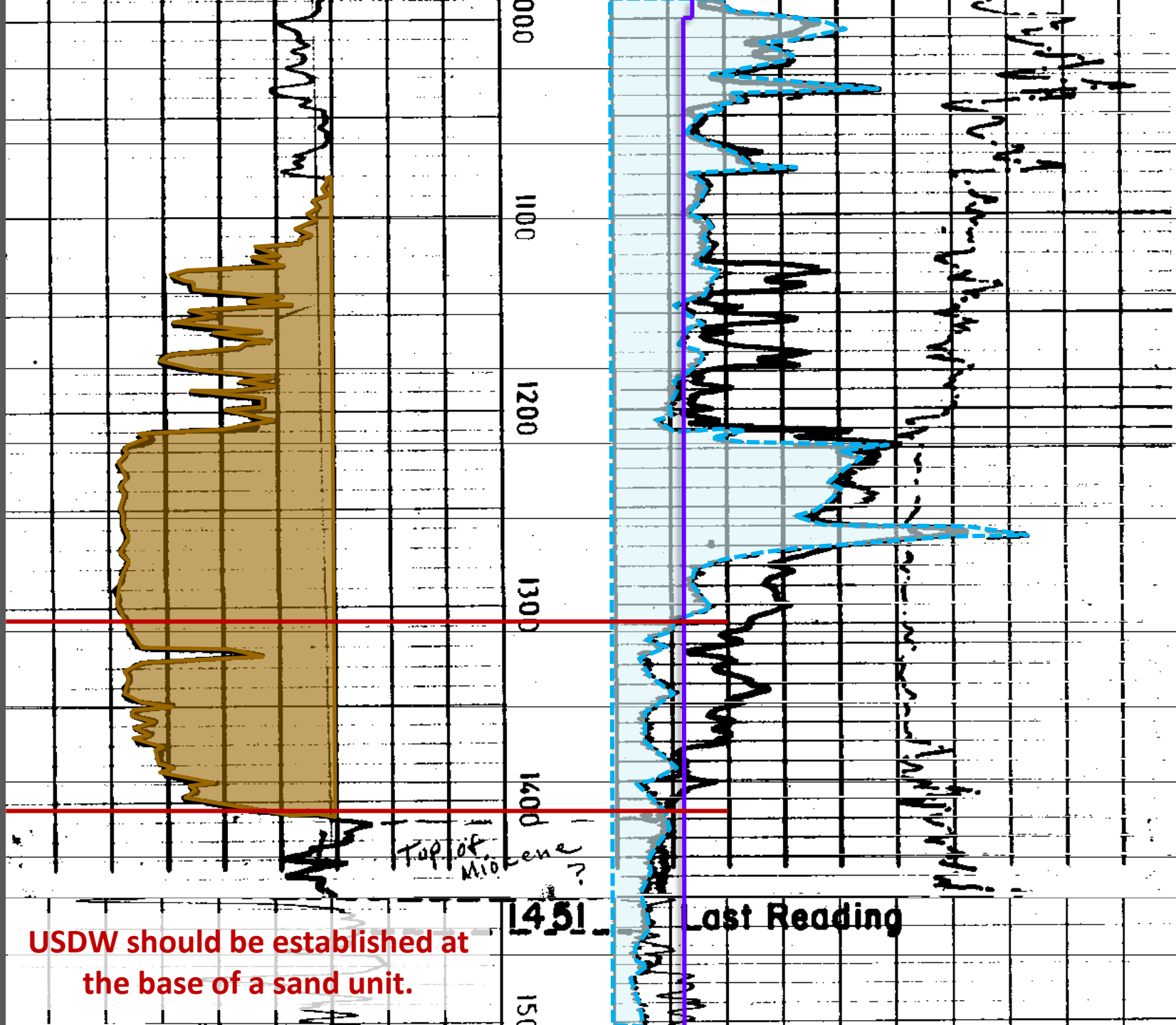




1500  
1600  
1700  
1800  
1900  
2000

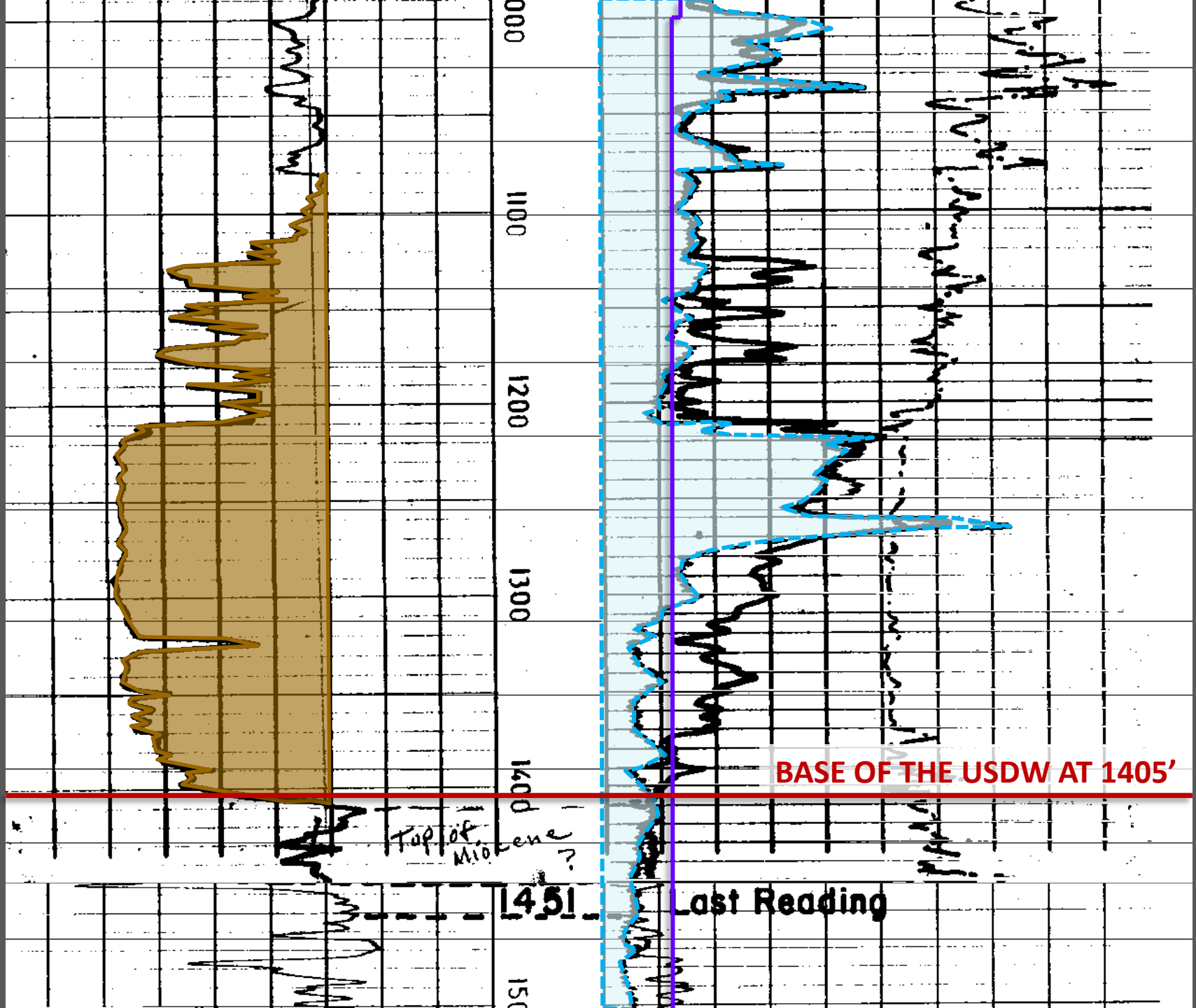
USDW  $\geq$  2 ohms  
2000' and Deeper

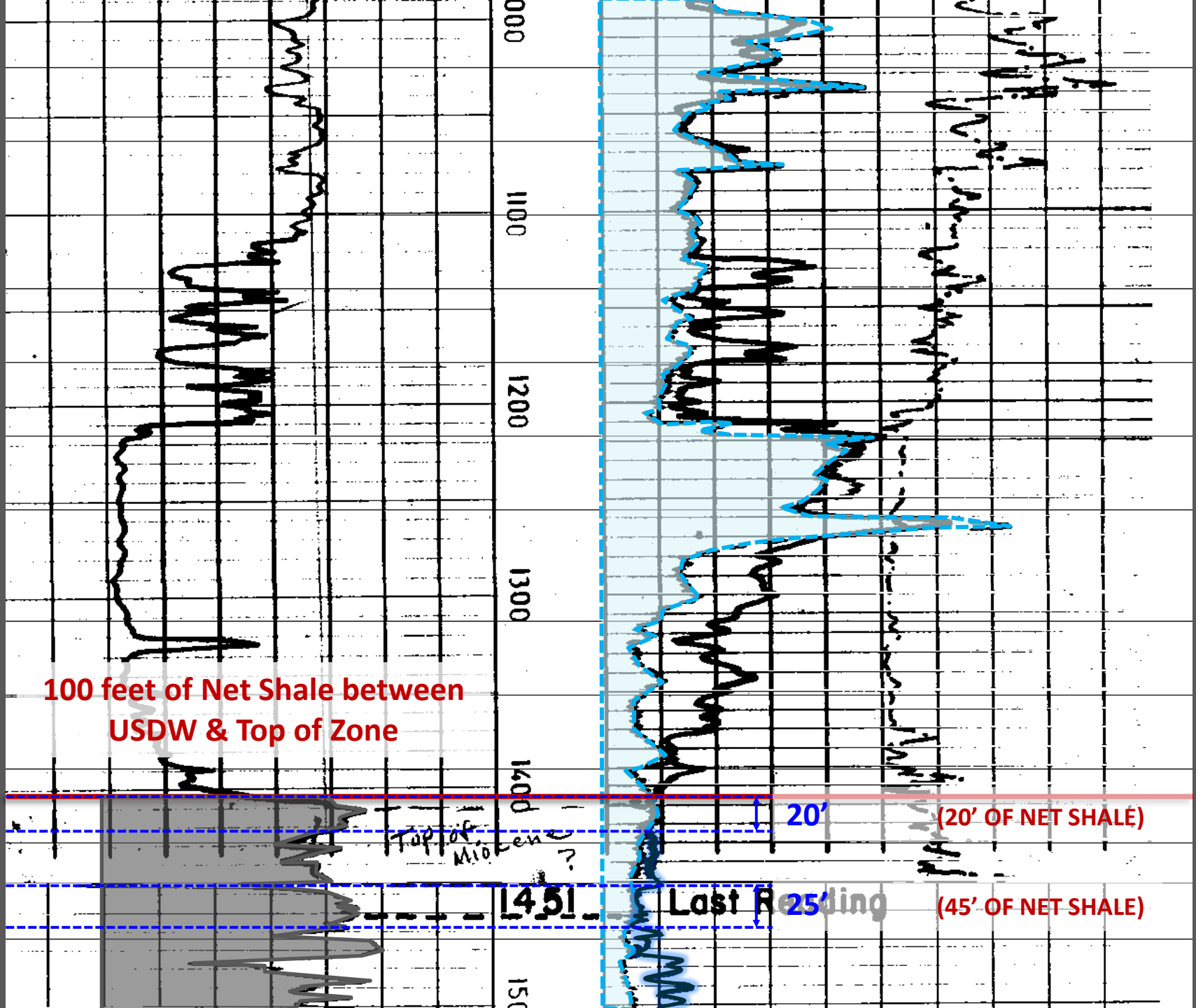
2000'



USDW should be established at the base of a sand unit.

1451 Last Reading





100 feet of Net Shale between  
USDW & Top of Zone

Top of Mio. Zone?  
?

14.51

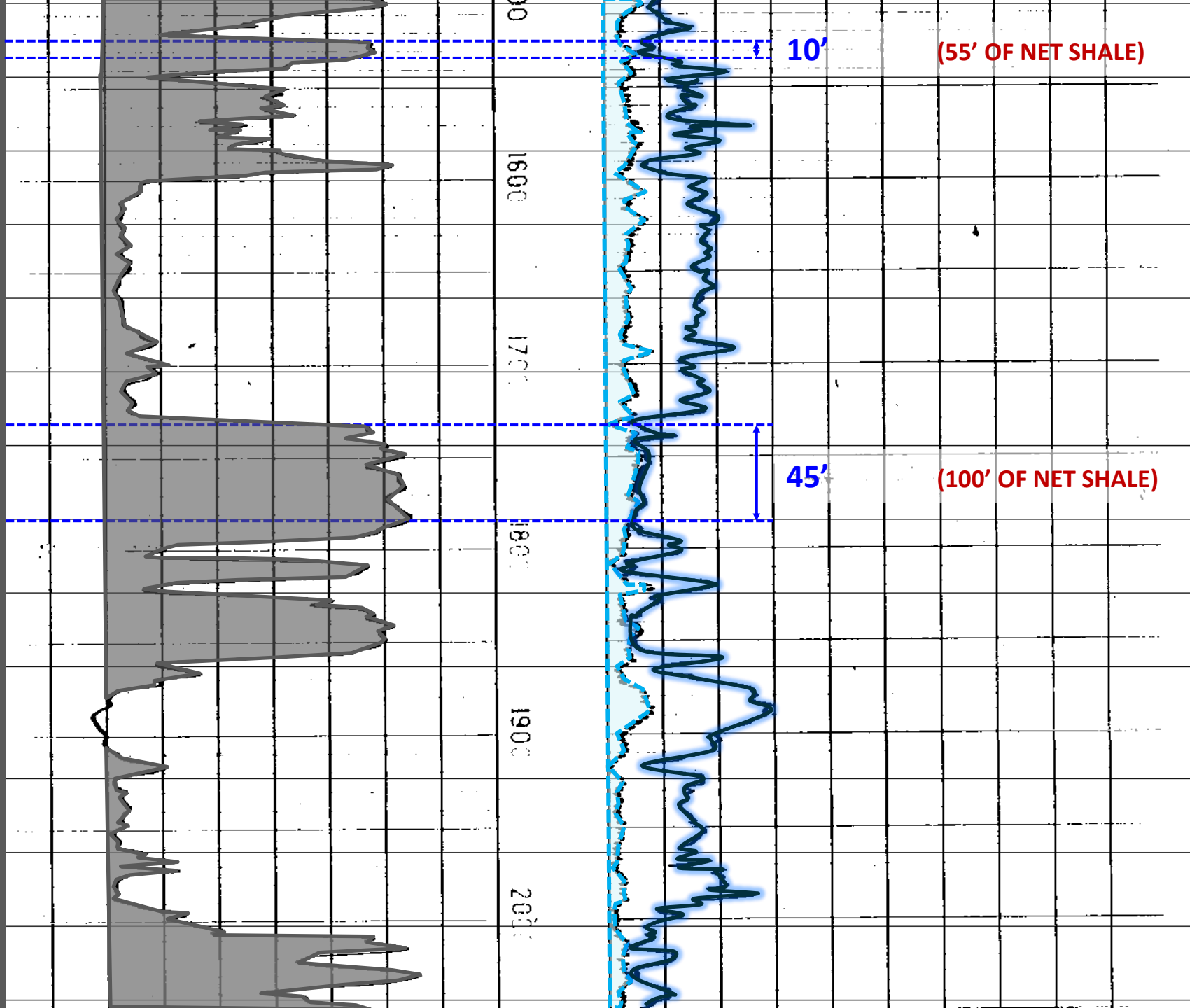
Last Reading

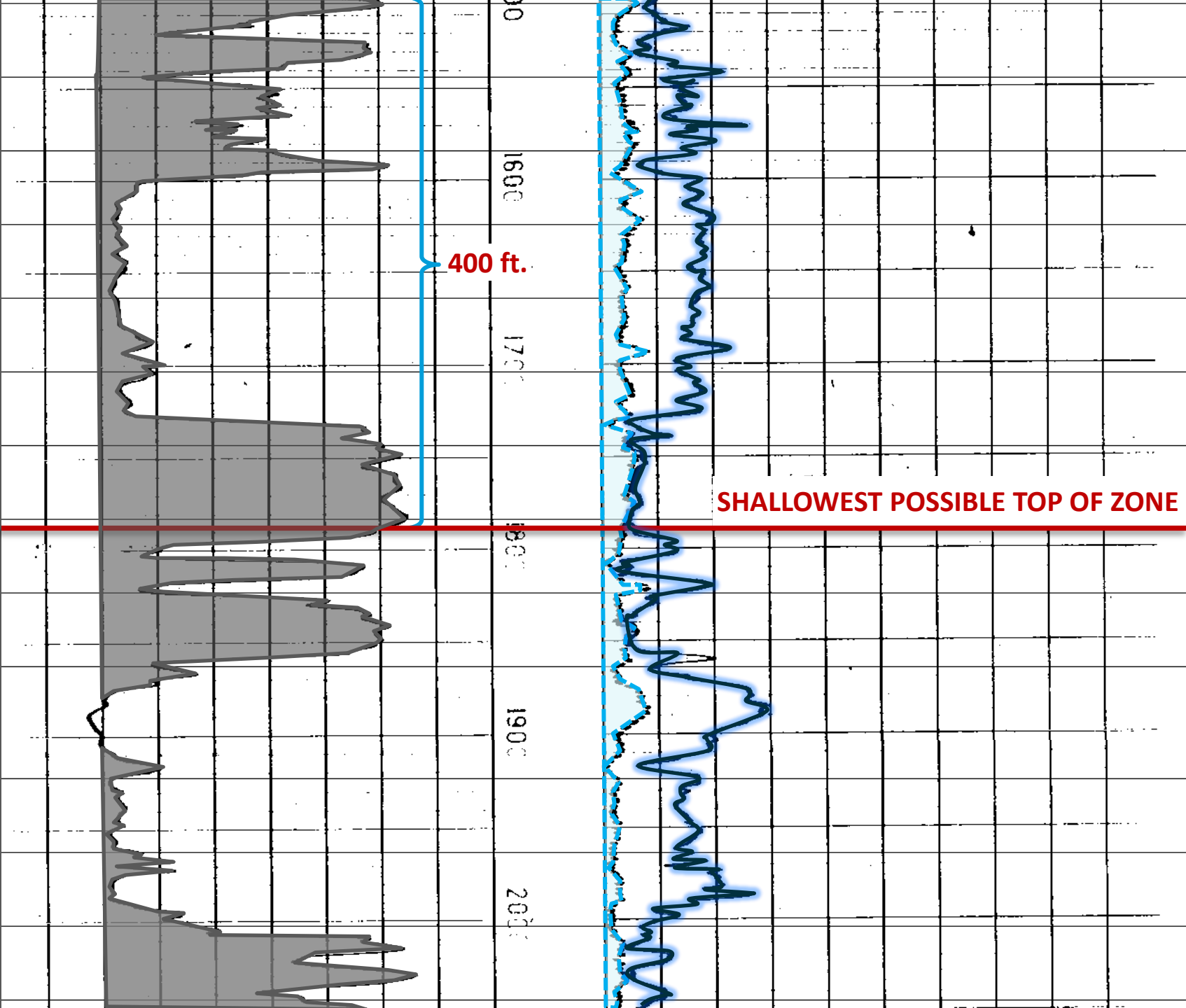
20'

(20' OF NET SHALE)

45'

(45' OF NET SHALE)





# *SONRIS & Discoverer*

Using the DNR database (SONRIS)  
to define the base of the USDW

*Identifying the Coordinates  
of an EXISTING well*



Go to [www.dnr.louisiana.gov](http://www.dnr.louisiana.gov) & click on the SONRIS logo

DEPARTMENT OF NATURAL RESOURCES *Scott A. Angelle, Secretary*  
STATE OF LOUISIANA

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**SONRIS**  
Database Access  
Document Imaging  
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ACCESS DNR DATA

SONRIS Access DNR Data

INFORMATION PORTALS  
For Visitors  
For Students & Researchers  
For Employees

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LATEST NEWS

DNR Secretary Scott Angelle attends first post-primum Gulf of Mexico federal lease sale

DNR Secretary Scott Angelle notes initial production tests in Tuscaloosa Marine Shale trend -

DNR Secretary Angelle Comments on Cheniere Energy's Third LNG Export Agreement -

UPCOMING MEETINGS AND EVENTS

DEC 14 State Mineral and Energy Board Meeting and Lease Sale

DEC 14 Ground Water Management Advisory Task Force

DEC 15 Pipeline Division Public Hearing

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# Scroll down to **Conservation** and select **Well Information**

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- Conservation Reports
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- Haynesville Shale Information
- Injection Information
- Inspection and Enforcement
- Pre-Run Reports
- Production And Reserve Pits
- Production Facilities
- Production Information
- Reports on Demand
- Transportation Information
- Well Information**

**Mineral Resource**

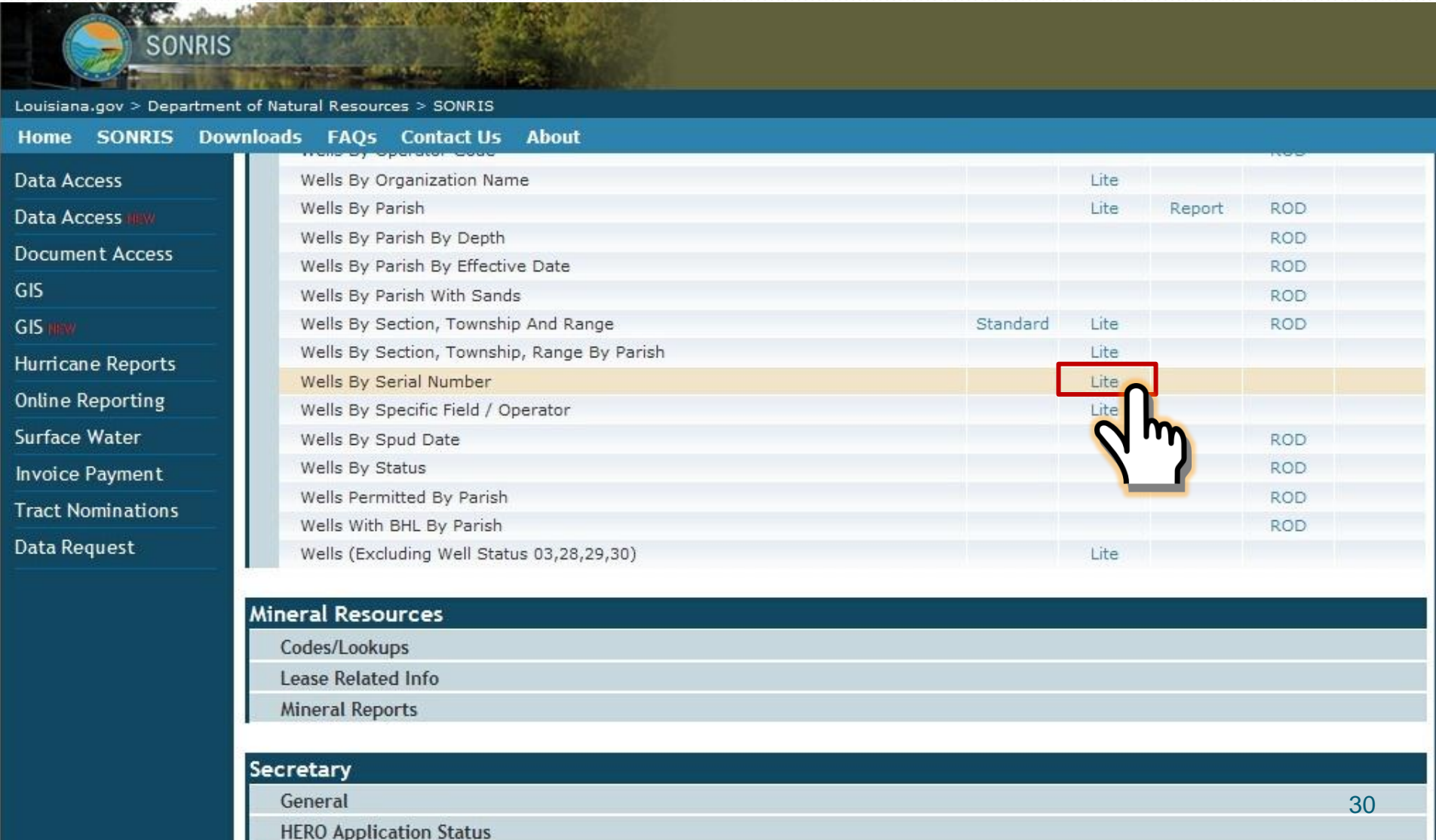
- Codes/Lookups
- Lease Related Info
- Mineral Reports

**Secretary**

- General
- HERO Application Status



# Scroll down to **Wells by Serial Number** and select **Lite** link



The screenshot shows the SONRIS website interface. The top navigation bar includes 'Home', 'SONRIS', 'Downloads', 'FAQs', 'Contact Us', and 'About'. A left sidebar contains various menu items: 'Data Access', 'Data Access <sup>NEW</sup>', 'Document Access', 'GIS', 'GIS <sup>NEW</sup>', 'Hurricane Reports', 'Online Reporting', 'Surface Water', 'Invoice Payment', 'Tract Nominations', and 'Data Request'. The main content area displays a list of data access options. The 'Wells by Serial Number' option is highlighted in yellow, and a red box highlights the 'Lite' link next to it. A hand cursor is pointing at the 'Lite' link.

Wells by Operator Code				
Wells By Organization Name			Lite	
Wells By Parish			Lite	Report ROD
Wells By Parish By Depth				ROD
Wells By Parish By Effective Date				ROD
Wells By Parish With Sands				ROD
Wells By Section, Township And Range	Standard		Lite	ROD
Wells By Section, Township, Range By Parish			Lite	
Wells By Serial Number			Lite	
Wells By Specific Field / Operator			Lite	
Wells By Spud Date				ROD
Wells By Status				ROD
Wells Permitted By Parish				ROD
Wells With BHL By Parish				ROD
Wells (Excluding Well Status 03,28,29,30)			Lite	

**Mineral Resources**

- Codes/Lookups
- Lease Related Info
- Mineral Reports

**Secretary**

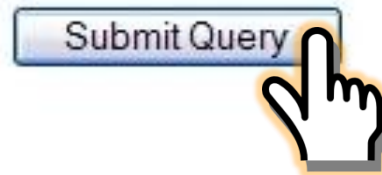
- General
- HERO Application Status

Enter the **Serial Number** of the well & click **Submit Query**

## LDNR Office Of Conservation

### Well Information

Enter The Well Serial Number:



# Scroll down to **WELL SURFACE COORDINATES** & Locate the **Lambert X, Lambert Y, Zone, and Datum** fields

## Well Information

### Review Well Information

#### WELLS

SERIAL	WELL NAME	WELL NUM	ORG ID	FIELD	PARISH	PROD TYPE	SEC	TWN	RGE	EFFECTIVE DATE	API NUM
175437	PARKER	001	T240	1488	42	10	004	16N	08E	07/11/2011	17083205240000
PRMT DATE	SPUD DATE	STAT DATE	ST CD								
05/21/1981	05/22/1981	07/11/2011	33								

#### WELL SURFACE COORDINATES

Surface Longitude	Surface Latitude	Lambert X	Lambert Y	Ground Elevation	Zone	Datum
0-0-0	0-0-0	2260924	632600	78	N	NAD-27

#### WELL SURFACE COORDINATES GENERATED BY DNR

UTMX 83	UTMY 83	LONGITUDE 83	LATITUDE 83
626514.21702206	3585914.08133878	-91.65472617	32.40310343

#### BOTTOM HOLE COORD

EFFECTIVE DATE	END DATE	PLUGBACK TOTAL DEPTH	TRUE VERTICAL DEPTH	MEASURED DEPTH	LAT DEG	LAT MIN	LAT SEC	LONG DEG	LONG MIN	LONG SEC	COORDINATE SOURCE	LAM
05/01/1981	07/01/1981		0	0							03	0
07/01/1981	04/01/1983		0	3102							03	0

#### WELL HISTORY

SERIAL	WELL NAME	WELL NUM	ORG ID	FIELD	ST CD	PT	WELL CLASS	EFF DATE	END DATE	STAT DATE
175437	PARKER	001	T240	1488	33	10		07/11/2011		07/11/2011
175437	PARKER	001	T148	1488	23	00		11/20/2010	07/10/2011	11/20/2010
175437	PARKER	001	T148	1488	30	00		10/10/2000	11/19/2010	10/10/2000
175437	PARKER	001	T148	1488	20	10		10/01/1997	10/09/2000	05/30/1988

# *USDW Search in Discoverer*

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# Scroll down to **UIC Appl: USDW Search By Lambert X/Y Coordinates** & select **ROD** link

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Data Request

## Injection Information

<u>Item Name</u>	<u>Standard</u>	<u>Lite</u>	<u>Report</u>	<u>ROD</u>	<u>PDF</u>
Class I Manifest	Standard	Lite			
Class I Quarterly Reports	Standard	Lite			
Class II SWD Wells Annual Volumes All Fields by Year			Report		
Class II SWD Wells Annual Volumes Specific Field By Year			Report		
Class II SWD Wells By Field					PDF
Class II SWD Wells By Org ID					PDF
E&P Waste After-Hours Disposal Permits	Standard				
E&P Waste Disposal Permits	Standard				
E&P Waste Refusal Notifications	Standard				
Injection Wells Annual Disposal/Injection Report	Standard		Report		
Injection Wells By Operator By Field	Standard				
Injection Wells By Operator		Lite			
Injection Wells By Parish		Lite	Report		
Injection Wells By Parish, S/T/R, Status or Type	Standard				
Injection Wells Test/Inspection Information	Standard	Lite			
Injection Wells USDW/Official MASIP	Standard				
Salt Dome Cavern Well Sonar/MIT By Serial Number	Standard	Lite			
UIC Appl:Detailed Report of Wells in a Defined AOR			Report		
UIC Appl:Production Search By Lambert X/Y Coordinates				ROD	
UIC Appl:USDW Search By Lambert X/Y Coordinates				ROD	
USDW Area Information	Standard	Lite			

## Inspection and Enforcement

### Pre-Run Reports

### Production And Reserve Pits

### Production Facilities



Enter the location's **X,Y Coordinates** (do not use commas)

**Edit Parameter Values**

Select values for the following parameters:

Lambert X*:	<input type="text" value="2260924"/>
Lambert Y*:	<input type="text" value="632600"/>
Surface Coordinates Zone*:	<input type="text" value="'N'"/>
Surface Coordinate System*:	<input type="text" value="'1927 LAMBERT COORDINATE STANDARD'"/>
Radius from Lambert XY (Feet)*:	<input type="text" value="'5280'"/>
Well Status:	<input type="text" value="Value"/>


Description  
No description available

\* indicates required field.

Select the flashlight icon next to the **Surface Coordinates Zone** field and choose the appropriate Zone- **N (North)**, **S (South)**, **O (Offshore)**

**Edit Parameter Values**

Select values for the following parameters:

Lambert X*:	<input type="text" value="2260924"/>
Lambert Y*:	<input type="text" value="632600"/>
Surface Coordinates Zone*:	<input type="text" value="N"/> 
Surface Coordinate System*:	<input type="text"/>
Radius from Lambert XY (Feet)*:	<input type="text" value="5280"/>
Well Status:	<input type="text" value="Value"/>

Description:

\* Indicates required field.

Select the flashlight icon next to the **Surface Coordinates System** field and choose the **System/Datum- 1927 or 1983**



**Edit Parameter Values**

Select values for the following parameters:

Lambert X*:	2260924
Lambert Y*:	632600
Surface Coordinates Zone*:	'N'
Surface Coordinate System*:	'1927 LAMBERT COORDINATE STANDARD'
Radius from Lambert XY (Feet)*:	5
Well Status:	V

Description

\* indicates required field.

Help OK Cancel



Available Items:



Items Conditions Calculations

List: Well Information

- [-] Admin Application Comments
- [-] Administrative Applications
- [-] Admin App Objections
- [-] Admin Contact History
- [+] Admin App Site Clear Wells
- [-] Admin App Status Codes
- [-] Admin App Type Codes
- [-] Admin App Req Codes
- [-] After Hours Disposals
- [-] Afhrs Disposal Extensions
- [+] Allowables
- [-] Amendment Orders
- [+] Aor Wells
- [-] Bottom Hole Coords
- [-] Bottom Hole Locations
- [-] Contact Phones 2
- [+] Casings
- [+] Cf Wells
- [-] Class 1 Quarterly Reports
- [-] Class I Manifests
- [+] Community Swd Wells

Selected Items:



- [+] Upper Perforation
- [+] Lower Perforation
- [+] Well Serial Num
- [+] Well Name
- [+] Well Num
- [+] Log Reviewed Flag
- [+] Area Usdw Value

UKC App: USDW Search by Lambert XY Coordinates 27-DEC-11 01:00:36 PM Page 1  
 p\_centerx : "2260504" , p\_centery : "6326607" , Surface Coordinates Zone : "N" , Surface Coordinate System : "1927 LAMBERT COORDINATE STANDARD" , Radius from Center Point : "5290"

	Distance from Lambert XY (Feet)	Well Serial Num	Well Name	Well Num	Log Review Flag	Area USDW Value	USDW Value	Source Area USDW Value	Well Status Code	Well Status Code De	Org Oper Name	Org
1	0	175437	PARKER	001	Y	0	860	USDW VALUE PER LCB 01/31/200	33	SHUT-IN PRODUCTIVE -FUTURE	TRADESTAR ENERGY, INC.	T240
2	80	211080	PARKER	003		0	0		10	ACTIVE - PRODUCING	TRADESTAR ENERGY, INC.	T240
3	485	31156	TOM SPRUELL	001		0	500	USDW VALUE PER LCB 01/30/2001	29	DRY AND PLUGGED	INACTIVE OPERATOR	9999
4	659	178505	PARKER	002		0	0		30	PLUGGED AND ABANDONED	TRENDSETTER PRODUCTION CO, INC	T148
5	667	207070	PARKER	004		0	490	USDW VALUE PER LCB 01/30/2001	31	SHUT-IN DRY HOLE -FUTURE UTILITY	TRADESTAR ENERGY, INC.	T240
6	747	30679	G S PARKER	001		0	0		30	PLUGGED AND ABANDONED	MURPHY - SUN	4358
7	813	179240	LOWERY	001		0	500	USDW VALUE PER LCB 01/30/2001	28	UNABLE TO LOCATE WELL-NO PLUGGED AND ABANDONED	STALLION OIL CORPORATION	5691
8	1,195	194171	COBB	001		0	0		29	DRY AND PLUGGED	STALLION OIL CORPORATION	5691
9	1,216	159126	R E LOWERY	001		0	500	USDW VALUE PER LCB 01/30/2001	29	DRY AND PLUGGED	DERRICK OIL & GAS CO.	1576
10	1,272	158096	B S COBB	002		0	860	USDW VALUE PER LCB 01/30/2001	29	DRY AND PLUGGED	WAYNE J. SPEARS	5674
11	1,321	181872	SPRUELL	002		0	500	USDW VALUE PER LCB 01/30/2001	29	DRY AND PLUGGED	WAYNE J. SPEARS	5674
12	1,446	30802	J G SPRUEL	001		0	870	USDW VALUE PER LCB 01/30/2001	29	DRY AND PLUGGED	MURPHY - SUN	4358
13	1,725	54696	FULLER	001		0	520	USDW VALUE PER LCB 01/30/2001	30	PLUGGED AND ABANDONED	INACTIVE OPERATOR	9999
14	1,732	54579	SPRUEL	001		0	0		29	DRY AND PLUGGED	INACTIVE OPERATOR	9999
	1,893	179541	FULLER	001		0	515	USDW VALUE	30	PLUGGED AND	BIG CREEK	0594

ONG\_WELL\_USDW\_BY\_SURFACE\_COORDS\_REV -- Sheet 1  
 Run Date Time: 27-DEC-11 01:00:36 PM

# *Modifying the Search Criteria*


*If No Wells are Retrieved in a 1-mile AOR*

*- or -*

*If a USDW Value cannot be identified from  
the Wells that are Retrieved*

Click on the **10th Icon** from the left.  
 When you mouse-over the icon, it will say **Refresh**.

File Edit View Format Tools Help



Dialog 11 B i U Refresh

UK Appl: USDW Search by Lambert X  
 p\_centerx : "2260924" , p\_centery : "632600" , Surface Coordinates Zone : "N" , Surface Coord

	Distance from Lambert X/Y (Feet)	Well Serial Num	Well Name	Well Num	Log Reviewed Flag	Area USDW Value	USDW Value	Source Area USDW Value
1	485	31156	TOM SPRUELL	001		0	500	USDW VALUE PER LCB 01/30/2001
2	747	30679	G S PARKER	001		0	0	
3	1,321	181872	SPRUELL	002		0	500	USDW VALUE PER LCB 01/30/2001
4	1,446	30802	J G SPRUEL	001		0	870	USDW VALUE PER LCB 01/30/2001
5	1,725	54696	FULLER	001		0	520	USDW VALUE PER LCB

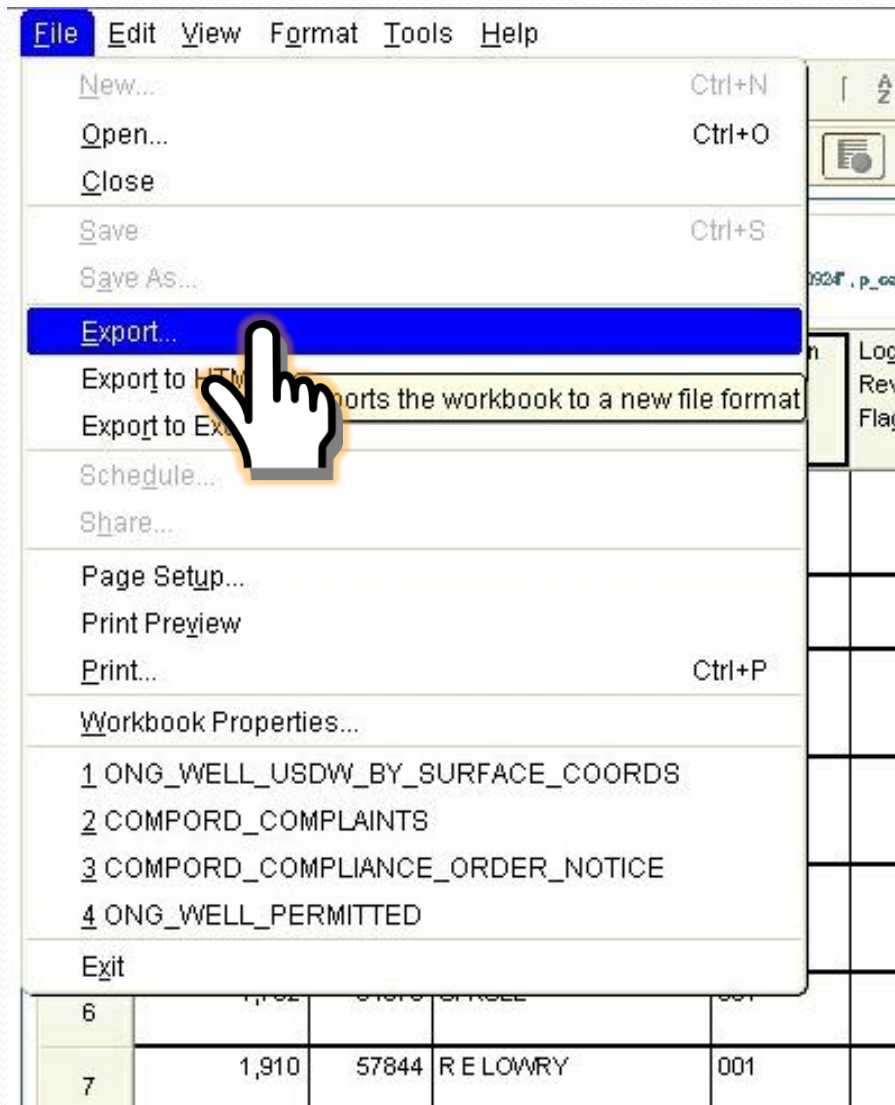




# *USDW Search*

*Exporting Spreadsheet to EXCEL*

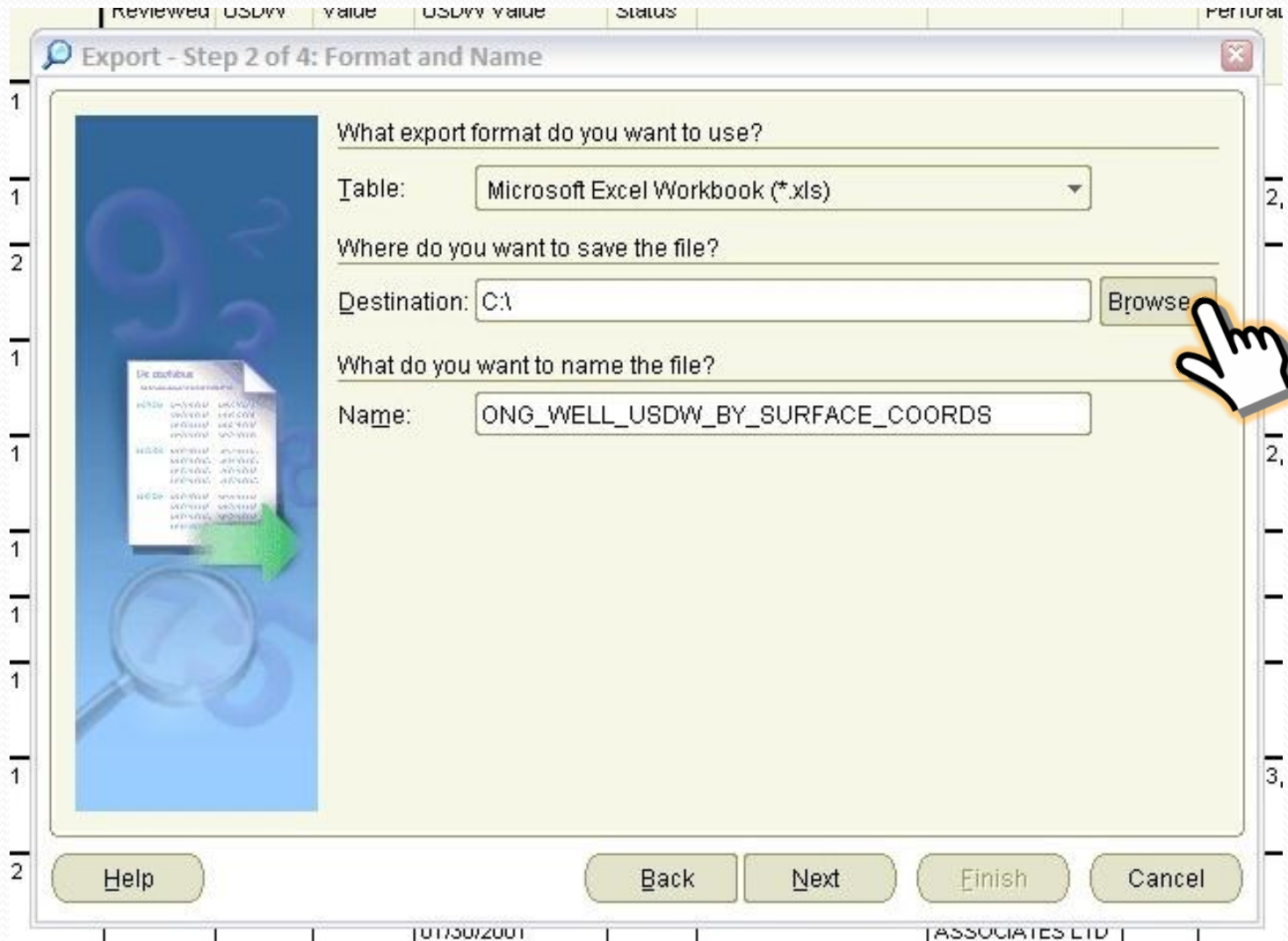
# Select **File** from the Menu bar & Select **Export** from the dropdown menu



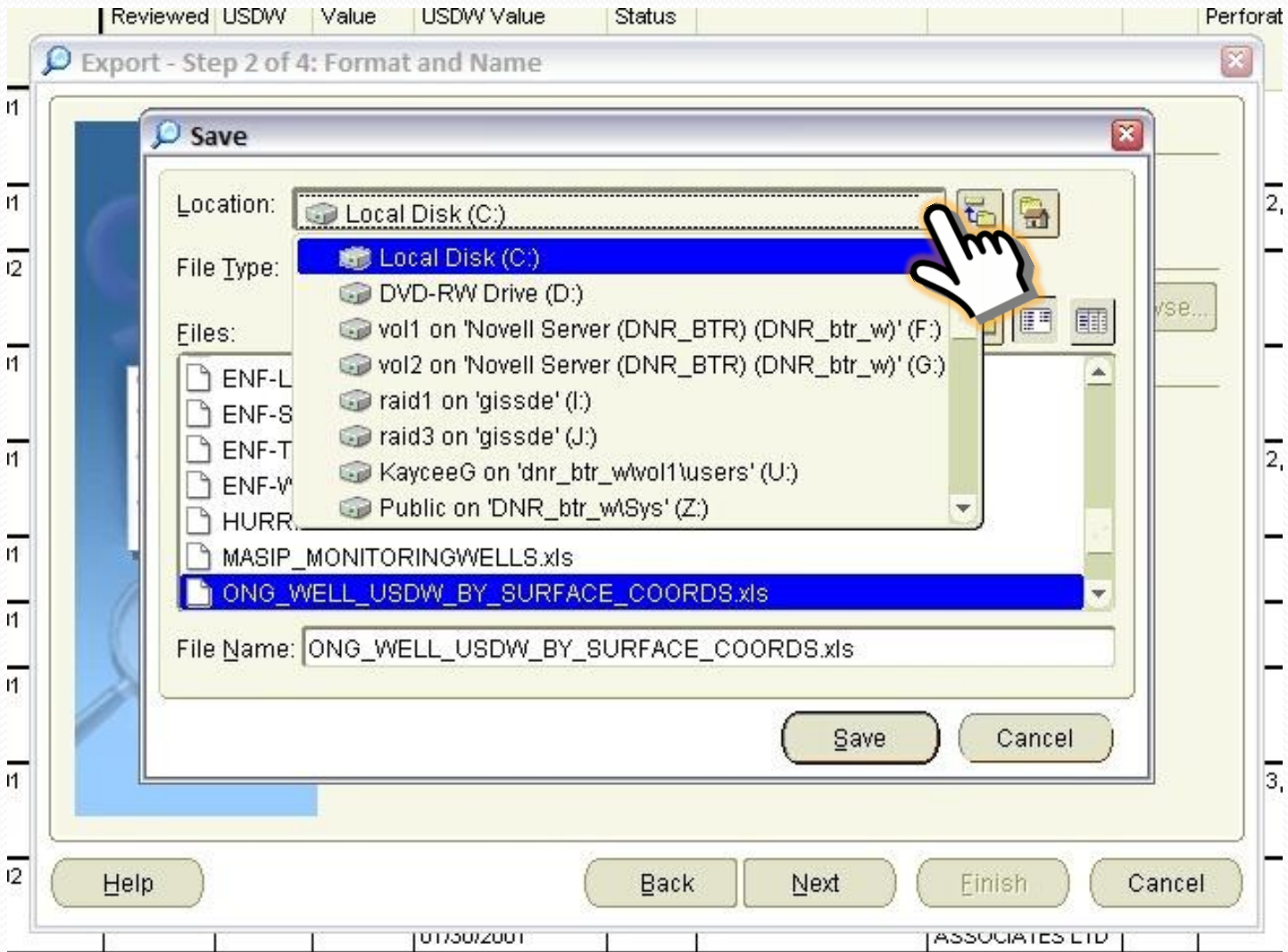
# Click on the **Next** button



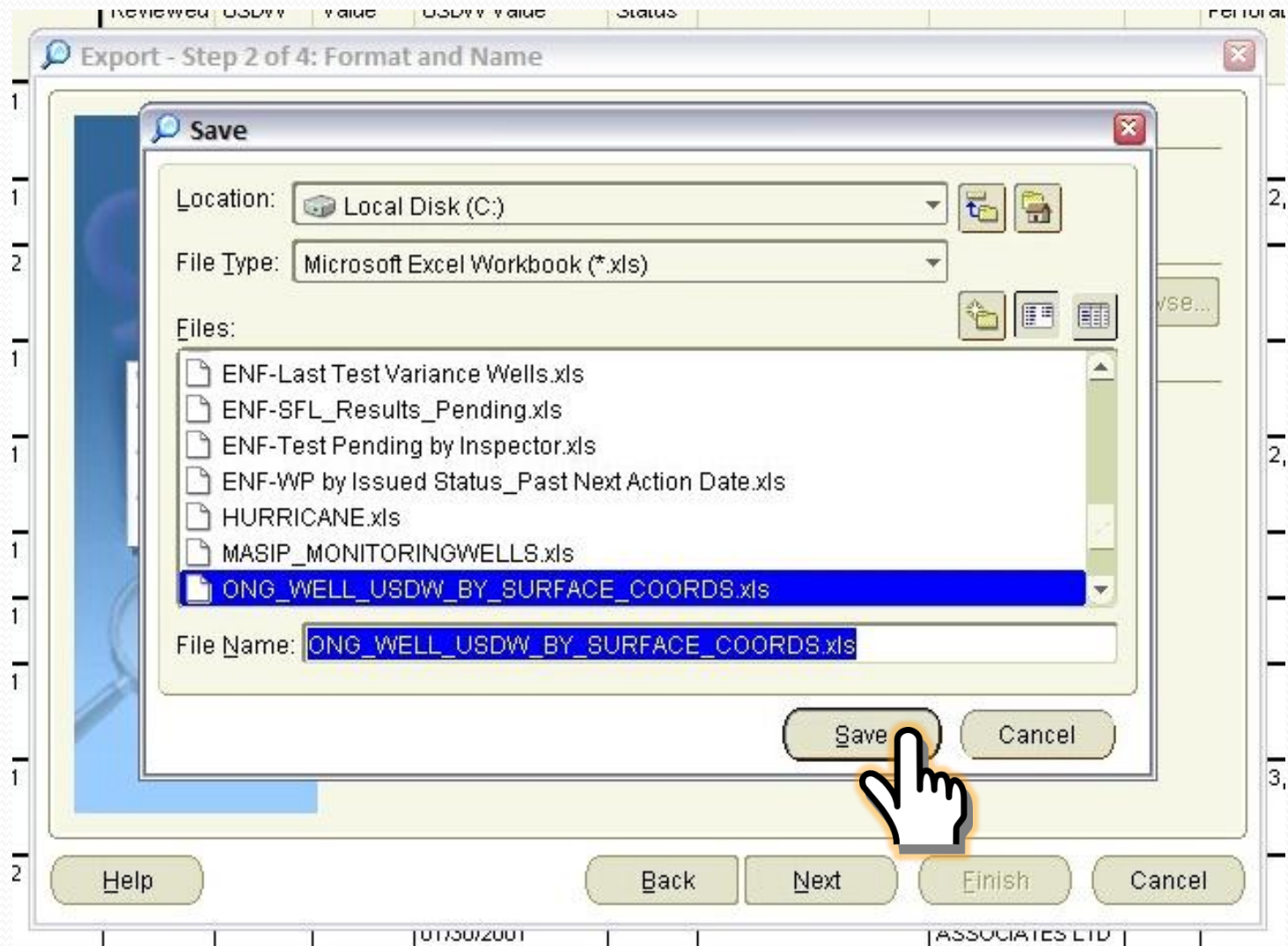
Click on the **Browse** button to select the location where you want to save the spreadsheet



Click on the **Location** dropdown menu and select the appropriate drive



Enter a **File Name** that is easily identifiable,  
and click on the **Save** button.



Click on the **Next** button.


Export - Step 2 of 4: Format and Name

What export format do you want to use?  
Table: Microsoft Excel Workbook (\*.xls)

Where do you want to save the file?  
Destination: C:\ Browse...

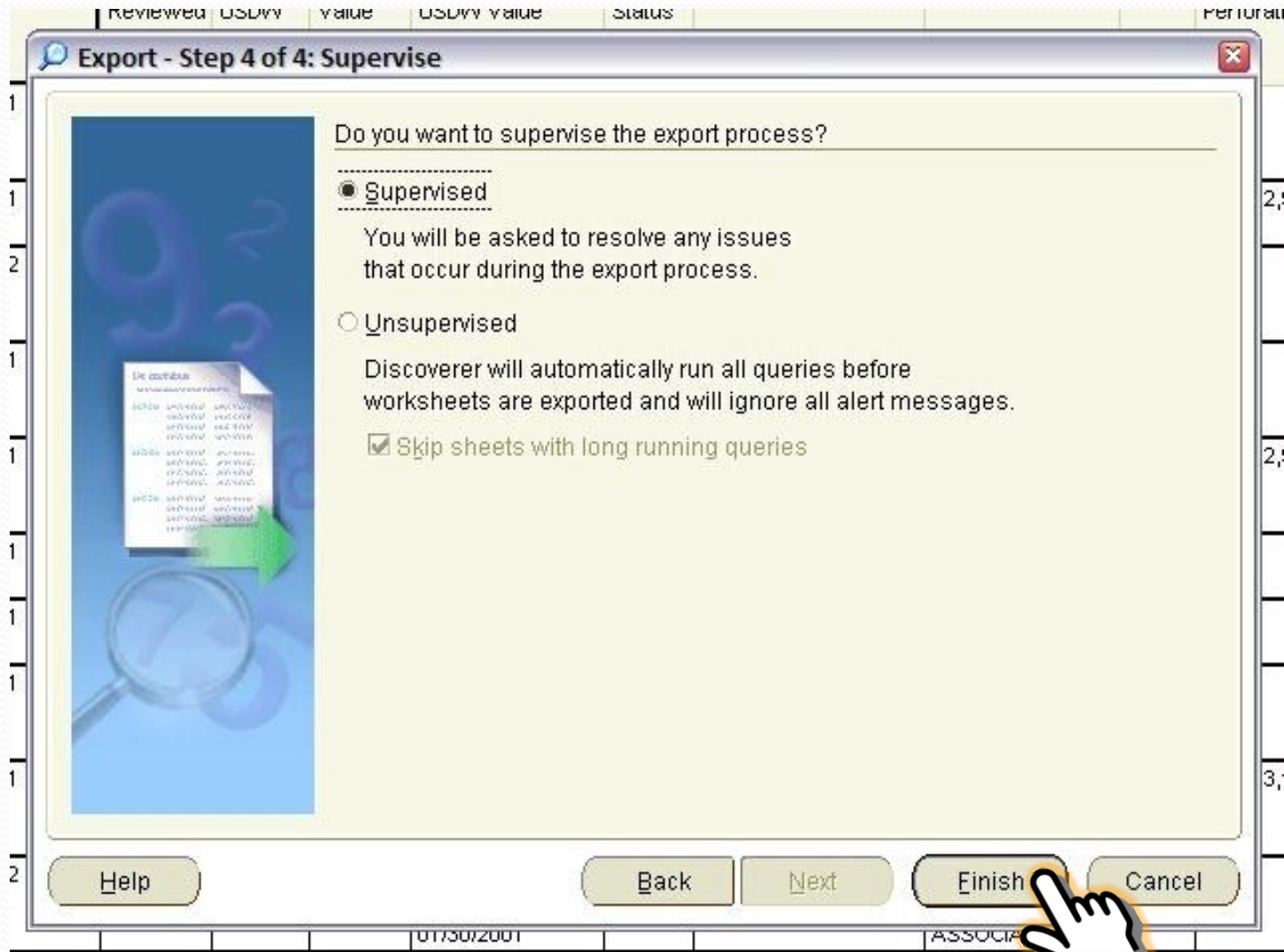
What do you want to name the file?  
Name: ONG\_WELL\_USDW\_BY\_SURFACE\_COORDS

Help Back Next Finish Cancel

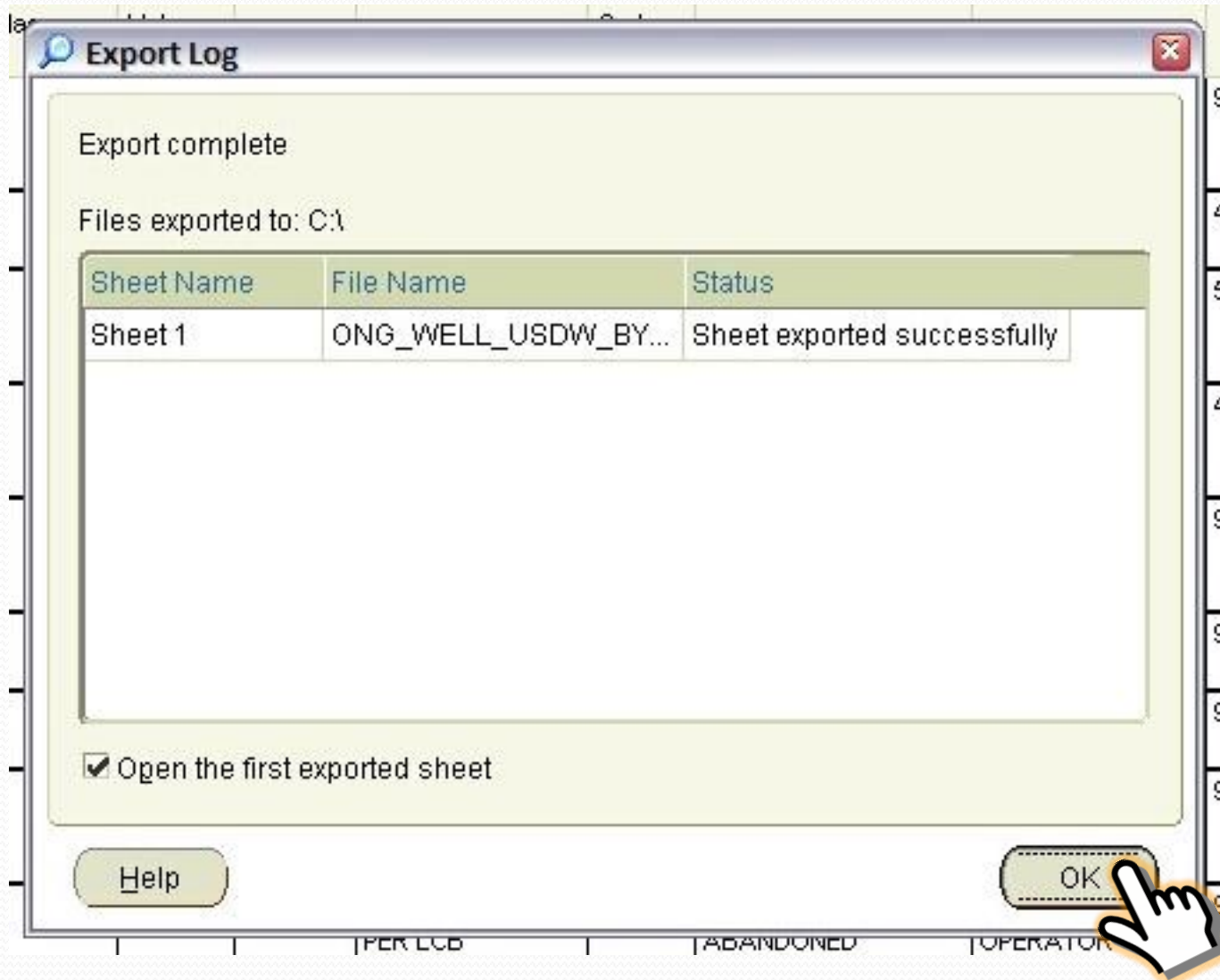




Click on the **Finish** button.



The Export is Complete. Select the **OK** button



File Home Insert Page Layout Formulas Data Review View Developer

Paste Clipboard Font Alignment Number Styles Cells Editing

Conditional Formatting Format as Table Cell Styles Insert Delete Format Sort & Filter Find & Select

**Security Warning** Macros have been disabled. [Enable Content](#)

H24 E-LOG FROM SN 121587

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
1	UIC Appl: USDW Search by Lambert X/Y Coordinates 29-DEC-11 02:47:19 PM Page 1 p_centerx : '1784841' , p_centery : '737607' , Surface Coordinates Zone : 'S' , Surface Coordinate System : '1927 LAMBERT																		
3	Distance fr	Well Serial	Well Name	Well Num	Log Review	Area USD	USDW Va	Source Arc	Well Statu	Well Statu	Org Oper	Org ID	Upper Perf	Lower Perf	WELLS	Measured	Depth		
4	0	243710	JOHN G T	001		0	0	29	DRY AND KEY	OPEIK036							0		
5	2443	70384	R L GARL	001	Y	0	0	TOL@185	29	DRY AND INACTIVE	9999						8012		
6	2716	209426	MAE BOU	001	Y	0	0	TOL@180	29	DRY AND L.A. EXPL	L008						9264		
7	3608	69799	THISTLET	022	Y	0	0	TOL@183	30	PLUGGED C & D RE	2572		7506	7517			8150		
8		117386	THISTLET	022-D		0	0	30	PLUGGED C & D RE	2572			7612	7620			8150		
9	3883	7631	SIGNOR	001		0	0	29	DRY AND INACTIVE	9999							2415		
10	3914	49264	N M HAW	001	Y	0	0	TOL@181	29	DRY AND INACTIVE	9999						8199		
11	4211	121587	THISTLET	030		0	1600	USDW VA	30	PLUGGED SOHIO PE	5588		7319	7321			8004		
12	4313	240735	THISCO P	005	Y	0	0	TOL@201	10	ACTIVE - I KEY	OPEIK036		6937	6941			0		
13	4408	47829	THISTLET	005	Y	0	0	TOL@180	30	PLUGGED SOHIO PE	5588		7650	7652			8118		
14		120464	THISTLET	005D		0	0	30	PLUGGED SOHIO PE	5588			7616	7617			8117		
15	4764	148555	THISTLET	033		0	1640	USDW VA	30	PLUGGED C & D RE	2572		7358	7367			8016		
16	4785	127306	THISTLET	001	Y	0	1650	USDW VA	29	DRY AND THE BALL	0362						8000		
17	4798	65584	THISTLET	025	Y	0	0	TOL@184	30	PLUGGED C & D RE	2572		7624	7626			9327		
18		104089	THISTLEW	025D		0	0	30	PLUGGED C & D RE	2572			9250	9256			9275		
19	4817	68966	THISTLET	021	Y	0	0	TOL@182	30	PLUGGED C & D RE	2572		7510	7514			8123		
20	4879	151083	THISTLET	001	Y	0	0	TOL@256	29	DRY AND INEXCO O	3019						15481		
21	4919	237557	THISCO P	002	Y	0	0	TOL@200	10	ACTIVE - I KEY	OPEIK036		7644	7787			0		
22	4947	239936	THISCO P	004	Y	0	0	TOL@203	10	ACTIVE - I KEY	OPEIK036		7876	7904			0		
23	5059	54566	WASHING	002		0	1660	USDW VA	30	PLUGGED C & D RE	2572		2505	2572			8211		
24	5140	52080	THISTLET	006		1600	0	E-LOG FR	09	ACTIVE- I KEY	OPEIK036		6720	6770			8110		

ONG\_WELL\_USDW\_BY\_SURFACE\_COORDS -- Sheet 1 Run Date Time: 29-DEC-11 02:47:19 PM

	A	B	C	D	E	F	G	H
	<b>Distance</b>	<b>Well Serial Num</b>	<b>Well Name</b>	<b>Well Num</b>	<b>Log Reviewed Flag</b>	<b>Area USDW Value</b>	<b>USDW Value</b>	<b>Source Area USDW Value</b>
2	0	243710	JOHN G TORIAN ETAL	001	Y	1600	0	FROM ELOG OF SN 121587 (~4211' AWAY) PER K GARRETT 8/17/2011
3	2443	70384	R L GARLAND	001	Y	0	0	TOL@1852'
4	2716	209426	MAE BOUDREAUX	001	Y	0	0	TOL@1802'
5	3608	69799	THISTLETHWAITE LBR CO	022	Y	0	0	TOL@1839'
6		117386	THISTLETHWAITE LBR CO	022-D	Y	0	0	DUAL COMP; TOL@1839' FROM ELOG OF SN 69799
7	3883	7631	SIGNOR	001	Y	0	0	NO LOG FOUND
8	3914	49264	N M HAWKINS NEAL ET AL UNIT	001	Y	0	0	TOL@1818'
9	4211	121587	THISTLETHWAITE LBR CO	030		0	1600	USDW VALUE PER LCB 10/07/1999
10	4313	240735	THISCO PARTNERSHIP	005	Y	0	0	TOL@2010'
11	4408	47829	THISTLETHWAITE LBR CO	005	Y	0	0	TOL@1808'
12		120464	THISTLETHWAITE LBR CO	005D	Y	0	0	DUAL COMP; TOL@1808' FROM ELOG OF SN 47829
13	4764	148555	THISTLETHWAITE LBR CO	033		0	1640	USDW VALUE PER LCB 10/07/1999
14	4785	127306	THISTLETHWAITE	001	Y	0	1650	USDW VALUE PER K GARRETT 8/17/2011
15	4798	65584	THISTLETHWAITE LBR CO	025	Y	0	0	TOL@1843'
16		104089	THISTLEWAITE LBR CO	025D	Y	0	0	DUAL COMP; TOL@1843' FROM ELOG OF SN 65584
17	4817	68966	THISTLETHWAITE LBR CO	021	Y	0	0	TOL@1821'
18	4879	151083	THISTLETHWAITE	001	Y	0	0	TOL@2566'
19	4919	237557	THISCO PARTNERSHIP	002	Y	0	0	TOL@2002'
20	4947	239936	THISCO PARTNERSHIP	004	Y	0	0	TOL@2030'
21	5059	54566	WASHINGTON SWD	002		0	1660	USDW VALUE PER LCB 10/07/1999
22	5140	52080	THISTLETHWAITE LBR CO SWD	006	Y	1600	0	E-LOG FROM SN 121587 (~939' AWAY) PER H BORDEN 11/13/2008
23								
24								

**BOLD** the Header Row & Apply Word Wrap

Expand the Column Width

Center the values in the Columns

	A	B	C	D	E	F	G	H
	Distance	Well Serial Num	Well Name	Well Num	Log Reviewed Flag	Area USDW Value	USDW Value	Source Area USDW Value
2	0	243710	JOHN G TORIAN ETAL	001	Y	1600	0	FROM ELOG OF SN 121587 (~4211' AWAY) PER K GARRETT 8/17/2011
3	2443	70384	R L GARLAND	001	Y	0	0	TOL@1852'
4	2716	209426	MAE BOUDREAUX	001	Y	0	0	TOL@1802'
5	3608	69799	THISTLETHWAITE LBR CO	022	Y	0	0	TOL@1839'
6		117386	THISTLETHWAITE LBR CO	022-D	Y	0	0	DUAL COMP; TOL@1839' FROM ELOG OF SN 69799
7	3883	7631	SIGNOR	001	Y	0	0	NO LOG FOUND
8	3914	49264	N M HAWKINS NEAL ET AL UNIT	001	Y	0	0	TOL@1818'
9	4211	121587	THISTLETHWAITE LBR CO	030		0	1600	USDW VALUE PER LCB 10/07/1999
10	4313	240735	THISCO PARTNERSHIP	005	Y	0	0	TOL@2010'
11	4408	47829	THISTLETHWAITE LBR CO	005	Y	0	0	TOL@1808'
12		120464	THISTLETHWAITE LBR CO	005D	Y	0	0	DUAL COMP; TOL@1808' FROM ELOG OF SN 47829
13	4764	148555	THISTLETHWAITE LBR CO	033		0	1640	USDW VALUE PER LCB 10/07/1999
14	4785	127306	THISTLETHWAITE	001	Y	0	1650	USDW VALUE PER K GARRETT 8/17/2011
15	4798	65584	THISTLETHWAITE LBR CO	025	Y	0	0	TOL@1843'
16		104089	THISTLETHWAITE LBR CO	025D	Y	0	0	DUAL COMP; TOL@1843' FROM ELOG OF SN 65584
17	4817	68966	THISTLETHWAITE LBR CO	021	Y	0	0	TOL@1821'
18	4879	151083	THISTLETHWAITE	001	Y	0	0	TOL@2566'
19	4919	237557	THISCO PARTNERSHIP	002	Y	0	0	TOL@2002'
20	4947	239936	THISCO PARTNERSHIP	004	Y	0	0	TOL@2030'
21	5059	54566	WASHINGTON SWD	002		0	1660	USDW VALUE PER LCB 10/07/1999
22	5140	52080	THISTLETHWAITE LBR CO SWD	006	Y	1600	0	E-LOG FROM SN 121587 (~939' AWAY) PER H BORDEN 11/13/2008

## » Distance from Lambert X/Y (Feet) Column

Provides the distance of the well from the X/Y coordinate values that were searched. The table is sorted by this Column from closest to farthest. If the search was conducted based on the coordinates of an existing well, then the well in the first row should be the well itself.

	A	B	C	D	E	F	G	H
	Distance	SN	Well Name	Well Num	Log Reviewed Flag	Area USDW Value	USDW Value	Source Area USDW Value
1	0	123459	PENROD-JURDEN C	001		0	0	
2	663	29706	PENROD-JURDEN	012		0	0	
3	906	122220	PENROD-JURDEN B	001		0	0	
4	971	29462	SHELLEY UNIT	003	Y	0	330	USDW VALUE PER T ROUGON 02/03/2012
5		972413	PENROD-JURDEN SWD	011		0	0	
6	976	29921	PENROD-JURDEN	014		0	0	
7	985	125568	PENROD-JURDEN D	001	Y	0	0	TOL 351'
8								
9								
10								
11								
12								
13								
14								
15								

» **Locating the Most Accurate USDW Value**

Although a USDW Value may be confirmed for a well in the AOR, you must search the electric logs of all wells closer to the proposed well to find the most accurate USDW Value.

	A	B	C	D	E	F	G	H
	Distance	Well Serial Num	Well Name	Well Num	Log Reviewed Flag	Area USDW Value	USDW Value	Source Area USDW Value
2	0	243710	JOHN G TORIAN ETAL	001	Y	1600	0	FROM ELOG OF SN 121587 (~4211' AWAY) PER K GARRETT 8/17/2011
3	2443	70384	R L GARLAND	001	Y	0	0	TOL@1852'
4	2716	209426	MAE BOUDREAUX	001	Y	0	0	TOL@1802'
5	3608	69799	THISTLETHWAITE LBR CO	022	Y	0	0	TOL@1839'
6		117386	THISTLETHWAITE LBR CO	022-D	Y	0	0	DUAL COMP; TOL@1839' FROM ELOG OF SN 69799
7	3883	7631	SIGNOR	001	Y	0	0	NO LOG FOUND
8	3914	49264	N M HAWKINS NEAL ET AL UNIT	001	Y	0	0	TOL@1818'
9	4211	121587	THISTLETHWAITE LBR CO	030		0	1600	USDW VALUE PER LCB 10/07/1999
10	4313	240735	THISCO PARTNERSHIP	005	Y	0	0	TOL@2010'
11	4408	47829	THISTLETHWAITE LBR CO	005	Y	0	0	TOL@1808'
12		120464	THISTLETHWAITE LBR CO	005D	Y	0	0	DUAL COMP; TOL@1808' FROM ELOG OF SN 47829
13	4764	148555	THISTLETHWAITE LBR CO	033		0	1640	USDW VALUE PER LCB 10/07/1999
14	4785	127306	THISTLETHWAITE	001	Y	0	1650	USDW VALUE PER K GARRETT 8/17/2011
15	4798	65584	THISTLETHWAITE LBR CO	025	Y	0	0	TOL@1843'
16		104089	THISTLETHWAITE LBR CO	025D	Y	0	0	DUAL COMP; TOL@1843' FROM ELOG OF SN 65584
17	4817	68966	THISTLETHWAITE LBR CO	021	Y	0	0	TOL@1821'
18	4879	151083	THISTLETHWAITE	001	Y	0	0	TOL@2566'
19	4919	237557	THISCO PARTNERSHIP	002	Y	0	0	TOL@2002'
20	4947	239936	THISCO PARTNERSHIP	004	Y	0	0	TOL@2030'
21	5059	54566	WASHINGTON SWD	002		0	1660	USDW VALUE PER LCB 10/07/1999
22	5140	52080	THISTLETHWAITE LBR CO SWD	006	Y	1600	0	E-LOG FROM SN 121587 (~939' AWAY) PER H BORDEN 11/13/2008

## » Log Reviewed Flag Column

Indicates whether the log has been recently reviewed by an IMD Geologist.

- » This field was recently added at the request of IMD Geologists so that we could keep track of wells whose electric logs we have reviewed.

	A	B	C	D	E	F	G	H
	Distance	Well Serial Num	Well Name	Well Num	Log Reviewed Flag	Area USDW Value	USDW Value	Source Area USDW Value
2	0	243710	JOHN G TORIAN ETAL	001	Y	1600	0	FROM ELOG OF SN 121587 (~4211' AWAY) PER K GARRETT 8/17/2011
3	2443	70384	R L GARLAND	001	Y	0	0	TOL@1852'
4	2716	209426	MAE BOUDREAUX	001	Y	0	0	TOL@1802'
5	3608	69799	THISTLETHWAITE LBR CO	022	Y	0	0	TOL@1839'
6		117386	THISTLETHWAITE LBR CO	022-D	Y	0	0	DUAL COMP; TOL@1839' FROM ELOG OF SN 69799
7	3883	7631	SIGNOR	001	Y	0	0	NO LOG FOUND
8	3914	49264	N M HAWKINS NEAL ET AL UNIT	001	Y	0	0	TOL@1818'
9	4211	121587	THISTLETHWAITE LBR CO	030		0	1600	USDW VALUE PER LCB 10/07/1999
10	4313	240735	THISCO PARTNERSHIP	005	Y	0	0	TOL@2010'
11	4408	47829	THISTLETHWAITE LBR CO	005	Y	0	0	TOL@1808'
12		120464	THISTLETHWAITE LBR CO	005D	Y	0	0	DUAL COMP; TOL@1808' FROM ELOG OF SN 47829
13	4764	148555	THISTLETHWAITE LBR CO	033		0	1640	USDW VALUE PER LCB 10/07/1999
14	4785	127306	THISTLETHWAITE	001	Y	0	1650	USDW VALUE PER K GARRETT 8/17/2011
15	4798	65584	THISTLETHWAITE LBR CO	025	Y	0	0	TOL@1843'
16		104089	THISTLETHWAITE LBR CO	025D	Y	0	0	DUAL COMP; TOL@1843' FROM ELOG OF SN 65584
17	4817	68966	THISTLETHWAITE LBR CO	021	Y	0	0	TOL@1821'
18	4879	151083	THISTLETHWAITE	001	Y	0	0	TOL@2566'
19	4919	237557	THISCO PARTNERSHIP	002	Y	0	0	TOL@2002'
20	4947	239936	THISCO PARTNERSHIP	004	Y	0	0	TOL@2030'
21	5059	54566	WASHINGTON SWD	002		0	1660	USDW VALUE PER LCB 10/07/1999
22	5140	52080	THISTLETHWAITE LBR CO SWD	006	Y	1600	0	E-LOG FROM SN 121587 (~939' AWAY) PER H BORDEN 11/13/2008

## » Area USDW Value Column

If a value is present, it indicates that a USDW value was determined from an electric log of an offset well. The SN, and sometimes the distance to the well, are usually indicated in the Source Area USDW field.

**“0” DOES NOT** indicate that a USDW is not present at the wellbore or that a USDW is at the ground surface. It is a default value entered by SONRIS.



	A	B	C	D	E	F	G	H
	Distance	Well Serial Num	Well Name	Well Num	Log Reviewed Flag	Area USDW Value	USDW Value	Source Area USDW Value
2	0	243710	JOHN G TORIAN ETAL	001	Y	1600	0	FROM ELOG OF SN 121587 (~4211' AWAY) PER K GARRETT 8/17/2011
3	2443	70384	R L GARLAND	001	Y	0	0	TOL@1852'
4	2716	209426	MAE BOUDREAUX	001	Y	0	0	TOL@1802'
5	3608	69799	THISTLETHWAITE LBR CO	022	Y	0	0	TOL@1839'
6		117386	THISTLETHWAITE LBR CO	022-D	Y	0	0	DUAL COMP; TOL@1839' FROM ELOG OF SN 69799
7	3883	7631	SIGNOR	001	Y	0	0	NO LOG FOUND
8	3914	49264	N M HAWKINS NEAL ET AL UNIT	001	Y	0	0	TOL@1818'
9	4211	121587	THISTLETHWAITE LBR CO	030		0	1600	USDW VALUE PER LCB 10/07/1999
10	4313	240735	THISCO PARTNERSHIP	005	Y	0	0	TOL@2010'
11	4408	47829	THISTLETHWAITE LBR CO	005	Y	0	0	TOL@1808'
12		120464	THISTLETHWAITE LBR CO	005D	Y	0	0	DUAL COMP; TOL@1808' FROM ELOG OF SN 47829
13	4764	148555	THISTLETHWAITE LBR CO	033		0	1640	USDW VALUE PER LCB 10/07/1999
14	4785	127306	THISTLETHWAITE	001	Y	0	1650	USDW VALUE PER K GARRETT 8/17/2011
15	4798	65584	THISTLETHWAITE LBR CO	025	Y	0	0	TOL@1843'
16		104089	THISTLETHWAITE LBR CO	025D	Y	0	0	DUAL COMP; TOL@1843' FROM ELOG OF SN 65584
17	4817	68966	THISTLETHWAITE LBR CO	021	Y	0	0	TOL@1821'
18	4879	151083	THISTLETHWAITE	001	Y	0	0	TOL@2566'
19	4919	237557	THISCO PARTNERSHIP	002	Y	0	0	TOL@2002'
20	4947	239936	THISCO PARTNERSHIP	004	Y	0	0	TOL@2030'
21	5059	54566	WASHINGTON SWD	002		0	1660	USDW VALUE PER LCB 10/07/1999
22	5140	52080	THISTLETHWAITE LBR CO SWD	006	Y	1600	0	E-LOG FROM SN 121587 (~939' AWAY) PER H BORDEN 11/13/2008

## » USDW Value Column

If a value is present, then it indicates that the value was determined from the electric log of the well itself.

**“0” DOES NOT** indicate that a USDW is not present at the wellbore or that a USDW is at the ground surface. It is a default value entered by SONRIS.

	A	B	C	D	E	F	G	H
	Distance	Well Serial Num	Well Name	Well Num	Log Reviewed Flag	Area USDW Value	USDW Value	Source Area USDW Value
2	0	243710	JOHN G TORIAN ETAL	001	Y	1600	0	FROM ELOG OF SN 121587 (~4211' AWAY) PER K GARRETT 8/17/2011
3	2443	70384	R L GARLAND	001	Y	0	0	TOL@1852'
4	2716	209426	MAE BOUDREAUX	001	Y	0	0	TOL@1802'
5	3608	69799	THISTLETHWAITE LBR CO	022	Y	0	0	TOL@1839'
6		117386	THISTLETHWAITE LBR CO	022-D	Y	0	0	DUAL COMP; TOL@1839' FROM ELOG OF SN 69799
7	3883	7631	SIGNOR	001	Y	0	0	NO LOG FOUND
8	3914	49264	N M HAWKINS NEAL ET AL UNIT	001	Y	0	0	TOL@1818'
9	4211	121587	THISTLETHWAITE LBR CO	030		0	1600	<b>USDW VALUE PER LCB 10/07/1999</b>
10	4313	240735	THISCO PARTNERSHIP	005	Y	0	0	TOL@2010'
11	4408	47829	THISTLETHWAITE LBR CO	005	Y	0	0	TOL@1808'
12		120464	THISTLETHWAITE LBR CO	005D	Y	0	0	DUAL COMP; TOL@1808' FROM ELOG OF SN 47829
13	4764	148555	THISTLETHWAITE LBR CO	033		0	1640	USDW VALUE PER LCB 10/07/1999
14	4785	127306	THISTLETHWAITE	001	Y	0	1650	USDW VALUE PER K GARRETT 8/17/2011
15	4798	65584	THISTLETHWAITE LBR CO	025	Y	0	0	TOL@1843'
16		104089	THISTLETHWAITE LBR CO	025D	Y	0	0	DUAL COMP; TOL@1843' FROM ELOG OF SN 65584
17	4817	68966	THISTLETHWAITE LBR CO	021	Y	0	0	TOL@1821'
18	4879	151083	THISTLETHWAITE	001	Y	0	0	TOL@2566'
19	4919	237557	THISCO PARTNERSHIP	002	Y	0	0	TOL@2002'
20	4947	239936	THISCO PARTNERSHIP	004	Y	0	0	TOL@2030'
21	5059	54566	WASHINGTON SWD	002		0	1660	USDW VALUE PER LCB 10/07/1999
22	5140	52080	THISTLETHWAITE LBR CO SWD	006	Y	1600	0	E-LOG FROM SN 121587 (~939' AWAY) PER H BORDEN 11/13/2008

## » Source Area USDW Value Column

If an entry is present, then it may be in one of the following formats:

- **USDW VALUE PER LCB XX/XX/XXXX**

Indicates the Geologist from IMD who identified the value in the USDW Value field and the date it was identified.

	A	B	C	D	E	F	G	H
	Distance	Well Serial Num	Well Name	Well Num	Log Reviewed Flag	Area USDW Value	USDW Value	Source Area USDW Value
2	0	243710	JOHN G TORIAN ETAL	001	Y	1600	0	FROM ELOG OF SN 121587 (~4211' AWAY) PER K GARRETT 8/17/2011
3	2443	70384	R L GARLAND	001	Y	0	0	TOL@1852'
4	2716	209426	MAE BOUDREAUX	001	Y	0	0	TOL@1802'
5	3608	69799	THISTLETHWAITE LBR CO	022	Y	0	0	TOL@1839'
6		117386	THISTLETHWAITE LBR CO	022-D	Y	0	0	DUAL COMP; TOL@1839' FROM ELOG OF SN 69799
7	3883	7631	SIGNOR	001	Y	0	0	NO LOG FOUND
8	3914	49264	N M HAWKINS NEAL ET AL UNIT	001	Y	0	0	TOL@1818'
9	4211	121587	THISTLETHWAITE LBR CO	030		0	1600	USDW VALUE PER LCB 10/07/1999
10	4313	240735	THISCO PARTNERSHIP	005	Y	0	0	TOL@2010'
11	4408	47829	THISTLETHWAITE LBR CO	005	Y	0	0	TOL@1808'
12		120464	THISTLETHWAITE LBR CO	005D	Y	0	0	DUAL COMP; TOL@1808' FROM ELOG OF SN 47829
13	4764	148555	THISTLETHWAITE LBR CO	033		0	1640	USDW VALUE PER LCB 10/07/1999
14	4785	127306	THISTLETHWAITE	001	Y	0	1650	USDW VALUE PER K GARRETT 8/17/2011
15	4798	65584	THISTLETHWAITE LBR CO	025	Y	0	0	TOL@1843'
16		104089	THISTLETHWAITE LBR CO	025D	Y	0	0	DUAL COMP; TOL@1843' FROM ELOG OF SN 65584
17	4817	68966	THISTLETHWAITE LBR CO	021	Y	0	0	TOL@1821'
18	4879	151083	THISTLETHWAITE	001	Y	0	0	TOL@2566'
19	4919	237557	THISCO PARTNERSHIP	002	Y	0	0	TOL@2002'
20	4947	239936	THISCO PARTNERSHIP	004	Y	0	0	TOL@2030'
21	5059	54566	WASHINGTON SWD	002		0	1660	USDW VALUE PER LCB 10/07/1999
22	5140	52080	THISTLETHWAITE LBR CO SWD	006	Y	1600	0	FROM ELOG OF SN 121587 (~939' AWAY) PER H BORDEN 11/13/2008

## » Source Area USDW Value Column

If an entry is present, then it may be in one of the following formats:

- **FROM ELOG OF SN: XXXXX (~XXX' AWAY) PER H BORDEN XX/XX/XXXX**

Indicates the SN of offset well whose elog was used to determine the value indicated in the Area USDW Value field, the distance of the offset well, the Geologist from IMD who identified the value, and the date it was identified.

	A	B	C	D	E	F	G	H
	Distance	Well Serial Num	Well Name	Well Num	Log Reviewed Flag	Area USDW Value	USDW Value	Source Area USDW Value
2	0	243710	JOHN G TORIAN ETAL	001	Y	1600	0	FROM ELOG OF SN 121587 (~4211' AWAY) PER K GARRETT 8/17/2011
3	2443	70384	R L GARLAND	001	Y	0	0	TOL@1852'
4	2716	209426	MAE BOUDREAUX	001	Y	0	0	TOL@1802'
5	3608	69799	THISTLETHWAITE LBR CO	022	Y	0	0	TOL@1839'
6		117386	THISTLETHWAITE LBR CO	022-D	Y	0	0	DUAL COMP; TOL@1839' FROM ELOG OF SN 69799
7	3883	7631	SIGNOR	001	Y	0	0	<b>NO LOG FOUND</b>
8	3914	49264	N M HAWKINS NEAL ET AL UNIT	001	Y	0	0	TOL@1818'
9	4211	121587	THISTLETHWAITE LBR CO	030		0	1600	USDW VALUE PER LCB 10/07/1999
10	4313	240735	THISCO PARTNERSHIP	005	Y	0	0	TOL@2010'
11	4408	47829	THISTLETHWAITE LBR CO	005	Y	0	0	TOL@1808'
12		120464	THISTLETHWAITE LBR CO	005D	Y	0	0	DUAL COMP; TOL@1808' FROM ELOG OF SN 47829
13	4764	148555	THISTLETHWAITE LBR CO	033		0	1640	USDW VALUE PER LCB 10/07/1999
14	4785	127306	THISTLETHWAITE	001	Y	0	1650	USDW VALUE PER K GARRETT 8/17/2011
15	4798	65584	THISTLETHWAITE LBR CO	025	Y	0	0	TOL@1843'
16		104089	THISTLETHWAITE LBR CO	025D	Y	0	0	DUAL COMP; TOL@1843' FROM ELOG OF SN 65584
17	4817	68966	THISTLETHWAITE LBR CO	021	Y	0	0	TOL@1821'
18	4879	151083	THISTLETHWAITE	001	Y	0	0	TOL@2566'
19	4919	237557	THISCO PARTNERSHIP	002	Y	0	0	TOL@2002'
20	4947	239936	THISCO PARTNERSHIP	004	Y	0	0	TOL@2030'
21	5059	54566	WASHINGTON SWD	002		0	1660	USDW VALUE PER LCB 10/07/1999
22	5140	52080	THISTLETHWAITE LBR CO SWD	006	Y	1600	0	E-LOG FROM SN 121587 (~939' AWAY) PER H BORDEN 11/13/2008

## » Source Area USDW Value Column

If an entry is present, then it may be in one of the following formats:

- **NO LOG FOUND**

Means a search was conducted for a log with that Serial Number, but none was found.

	A	B	C	D	E	F	G	H
	Distance	Well Serial Num	Well Name	Well Num	Log Reviewed Flag	Area USDW Value	USDW Value	Source Area USDW Value
2	0	243710	JOHN G TORIAN ETAL	001	Y	1600	0	FROM ELOG OF SN 121587 (~4211' AWAY) PER K GARRETT 8/17/2011
3	2443	70384	R L GARLAND	001	Y	0	0	TOL@1852'
4	2716	209426	MAE BOUDREAUX	001	Y	0	0	<b>TOL@1802'</b>
5	3608	69799	THISTLETHWAITE LBR CO	022	Y	0	0	TOL@1839'
6		117386	THISTLETHWAITE LBR CO	022-D	Y	0	0	DUAL COMP; TOL@1839' FROM ELOG OF SN 69799
7	3883	7631	SIGNOR	001	Y	0	0	NO LOG FOUND
8	3914	49264	N M HAWKINS NEAL ET AL UNIT	001	Y	0	0	TOL@1818'
9	4211	121587	THISTLETHWAITE LBR CO	030		0	1600	USDW VALUE PER LCB 10/07/1999
10	4313	240735	THISCO PARTNERSHIP	005	Y	0	0	TOL@2010'
11	4408	47829	THISTLETHWAITE LBR CO	005	Y	0	0	TOL@1808'
12		120464	THISTLETHWAITE LBR CO	005D	Y	0	0	DUAL COMP; TOL@1808' FROM ELOG OF SN 47829
13	4764	148555	THISTLETHWAITE LBR CO	033		0	1640	USDW VALUE PER LCB 10/07/1999
14	4785	127306	THISTLETHWAITE	001	Y	0	1650	USDW VALUE PER K GARRETT 8/17/2011
15	4798	65584	THISTLETHWAITE LBR CO	025	Y	0	0	TOL@1843'
16		104089	THISTLETHWAITE LBR CO	025D	Y	0	0	DUAL COMP; TOL@1843' FROM ELOG OF SN 65584
17	4817	68966	THISTLETHWAITE LBR CO	021	Y	0	0	TOL@1821'
18	4879	151083	THISTLETHWAITE	001	Y	0	0	TOL@2566'
19	4919	237557	THISCO PARTNERSHIP	002	Y	0	0	TOL@2002'
20	4947	239936	THISCO PARTNERSHIP	004	Y	0	0	TOL@2030'
21	5059	54566	WASHINGTON SWD	002		0	1660	USDW VALUE PER LCB 10/07/1999
22	5140	52080	THISTLETHWAITE LBR CO SWD	006	Y	1600	0	E-LOG FROM SN 121587 (~939' AWAY) PER H BORDEN 11/13/2008

## » Source Area USDW Value Column

If an entry is present, then it may be in one of the following formats:

- **TOL @ XXX'**

Is entered when a USDW is not present on the log, and indicates the shallowest depth the log was recorded.

	A	B	C	D	E	F	G	H
	Distance	Well Serial Num	Well Name	Well Num	Log Reviewed Flag	Area USDW Value	USDW Value	Source Area USDW Value
1	0	100100	A J HODGES IND	001		0	1440	
2	1236	93974	BARR EST	001		0	0	
3	1312	95462	PEARL MASSINGILL ET AL	001		0	0	
4	1404	13372	SABINE STATE BANK & TRUST CO	001		0	0	
5	1524	58229	A L BARR	001		0	0	
6	1602	94726	M M BARR	001		0	0	
7	1682	96979	A L BARR A	002		0	0	
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								

» **Source Area USDW Value Column**

If the USDW Value field contains a value and the Source Area USDW Value field is blank, then it indicates that the USDW Value was determined from an electric log of the well, but it has not been recently confirmed by current standards. The e-log of the well will need to be reviewed.

If the USDW Value or Area USDW Value fields are blank or contain “0” and the Source Area USDW Value field is blank, then it indicates that a search has not been conducted to identify a USDW for the well.

# *Electric Log Search*

Go to [www.dnr.louisiana.gov](http://www.dnr.louisiana.gov) & click on the **SONRIS** logo

DEPARTMENT OF NATURAL RESOURCES *Scott A. Angelle, Secretary*  
STATE OF LOUISIANA

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DEC 15 Pipeline Division Public Hearing

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# Scroll down and select **Well Log**

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Enter the **Well Serial Number** in the field to the right  
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STATE EXHIBIT A  
STATE LEASE  
SUBLEASE  
SUCCESSION  
SUPPLEMENTAL ROYALTY INFORMATION  
SURFACE MINING ORDER  
SURFACE MINING ORDER SUPPLEMENT  
SURVEY PLATS  
SW AGREEMENT  
SW APPLICATION  
SW APPLICATION ATTACHMENT  
SW REPORT

Description:

Entry Date(mm/dd/yyyy):  To

Ref Num:

Scale:

Well Serial Number:

Get associated documents

If an electric log is available, a table will show the well log information. Click on the **TIF** image and **Save** to your computer



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Page 1 of 1. Search returned 4 documents.

Row	Alt View	Info	Document	Description	Pages	WellSerialNumber
1	<a href="#">TIF</a>			ELECTRICAL	1	100100
2	<a href="#">TIF</a>			SONIC	1	100100
3	<a href="#">TIF</a>			SONIC	1	100100
4	<a href="#">TIF</a>			ELECTRICAL	1	100100

# *Viewing and Printing Electric Logs*

# Download a Log Viewing Software

*Example provided is  
Blueview by Schlumberger*

Go to [www.slb.com](http://www.slb.com) and enter **BlueView Log Image** in the search field at the top of the page

The screenshot shows the Schlumberger website homepage. At the top left, the address bar contains 'www.slb.com'. The navigation menu includes 'Services & Products', 'About Us', 'Investors', 'Newsroom', 'HSE', 'Careers', 'Alumni', and 'Resources'. The main content area features a large banner for 'MDT Forte-HT Sampling and Testing' with the tagline 'Lowers risk with quantified operational confidence'. To the right, the 'Newsroom' section lists three articles: 'Schlumberger Expands High-Temperature Reservoir Characterization Services', 'Schlumberger Announces Fourth-Quarter and Full-Year 2011 Results', and 'Schlumberger Increases Quarterly Dividend'. A search bar at the top right contains the text 'BlueView Log Image' and is highlighted with a red box and a hand cursor.

www.slb.com

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**MDT Forte-HT Sampling and Testing**  
Lowers risk with quantified operational confidence

### Newsroom

- **Schlumberger Expands High-Temperature Reservoir Characterization Services**  
New services deliver fast accurate pressure and mobility measurements.
- **Schlumberger Announces Fourth-Quarter and Full-Year 2011 Results**  
Full-year 2011 earnings-per-share of \$3.66
- **Schlumberger Increases Quarterly Dividend**  
Board of Directors declares Q4 dividend of \$0.275 per share.

**Eliminate Poorly Defined Surface Seismic**  
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**SEED's Robot Challenge**  
Malaysian students show creativity in robot-building competition.

**Building a Better Bit**  
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# Select the first result

## BlueView Log Image Manipulation Software, Schlumberger

The screenshot shows the Schlumberger website's search results page. At the top right, there are links for 'Login | Register | Regional sites | Contact Us' and a search input field with a right-pointing arrow. Below this is a dark blue navigation bar with the following menu items: 'Services & Products', 'About Us', 'Investors', 'Newsroom', 'HSE', 'Careers', 'Alumni', and 'Resources'. The breadcrumb trail reads 'You are here: Home > Search'. The search input field contains 'BlueView Log Image' and a 'Search' button. Below the search bar, it says 'Searched for BlueView Log Image.' On the right side, there are links for 'Advanced Search | Search Tips' and the text 'Results 1 - 10 of about 240. Search took 0.09 seconds.' The search results are listed below, with the first result highlighted by a red box and a hand cursor pointing to it. The first result is 'BlueView Log Image Manipulation Software, Schlumberger', with a description: 'BlueView log image manipulation software displays, annotates, edits, splices and prints log images. ... BlueView Log Image Manipulation Software ...' and the URL 'http://www.slb.com/services/characterization/software/data\_utilities/blueview\_log\_image\_software.aspx'. The second result is 'BlueView Release Notes, Schlumberger', with a description: '... BlueView provides a native Windows interface from where users can view, annotate, segment, merge, convert, save, and print TIFF log image ...' and the URL 'http://www.slb.com/services/characterization/software/data\_utilities/blueview\_log\_image\_software/blueview\_rn.aspx'. The third result is '[PDF] Log Data Toolbox Version 2.2', with a description: '... With the BlueView application, Schlumberger PDS files can be ... them as side-by-side log displays. ... and then converted to a single merged image. ...' and the URL 'http://www.slb.com/~media/Files/evaluation/brochures/software/log\_data\_toolbox\_br.ashx'.

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You are here: Home > Search

BlueView Log Image Search

Searched for BlueView Log Image.

Advanced Search | Search Tips

Results 1 - 10 of about 240. Search took 0.09 seconds.

**BlueView Log Image Manipulation Software, Schlumberger**  
BlueView log image manipulation software displays, annotates, edits, splices and prints log images. ... BlueView Log Image Manipulation Software ...  
[http://www.slb.com/services/characterization/software/data\\_utilities/blueview\\_log\\_image\\_software.aspx](http://www.slb.com/services/characterization/software/data_utilities/blueview_log_image_software.aspx)

**BlueView Release Notes, Schlumberger**  
... BlueView provides a native Windows interface from where users can view, annotate, segment, merge, convert, save, and print TIFF log image ...  
[http://www.slb.com/services/characterization/software/data\\_utilities/blueview\\_log\\_image\\_software/blueview\\_rn.aspx](http://www.slb.com/services/characterization/software/data_utilities/blueview_log_image_software/blueview_rn.aspx)

**[PDF] Log Data Toolbox Version 2.2**  
... With the BlueView application, Schlumberger PDS files can be ... them as side-by-side log displays. ... and then converted to a single merged image. ...  
[http://www.slb.com/~media/Files/evaluation/brochures/software/log\\_data\\_toolbox\\_br.ashx](http://www.slb.com/~media/Files/evaluation/brochures/software/log_data_toolbox_br.ashx)

# Click on the **BlueView Log Image Manipulation Software** link under the Related Resources heading

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You are here: Home > Services & Products > Reservoir Characterization > FE Software > Data Utilities > BlueView

## Services & Products

- Characterization
- Freeware Data Utilities
  - BlueView Log Image Manipulation Software**
  - BlueView Release Notes
- DataView
- Log Data Toolbox
- PDSView Software for Viewing Oilfield Graphics Data Files
- WellSync
- WellEye 3D Borehole Data View

## Tools

### BlueView Log Image Manipulation Software

**Increase your options for working with log images**

BlueView log image manipulation software displays, annotates, edits, splices, and prints log images. You can divide images into smaller segments and reassemble them into new logs or combine them as side-by-side log displays.

Multiple images can be vertically aligned and converted to a single merged image. Either the single or combined images can be printed at full, half, fit-to-width, or any user-entered dimensions.

Make overlay images with the transparency function for a full and quick comparison. Color annotations can be applied as editable objects, even after being saved.

With the BlueView application, Schlumberger PDS files can be converted and saved as TIFF files. Images can be saved to any common raster format at any color depth and in several types of compressed file formats.

#### BlueView Release Notes

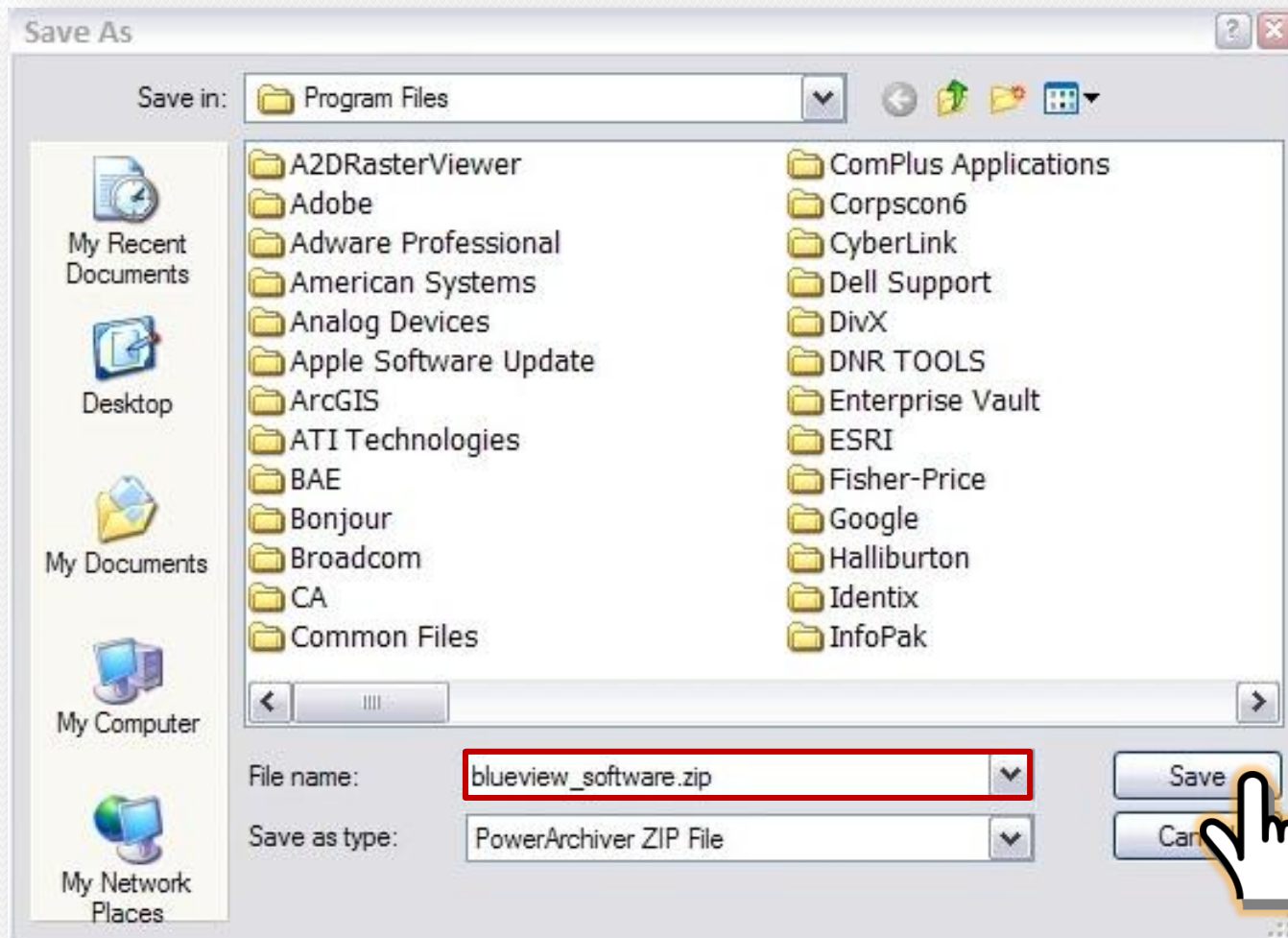
New features, system requirements, installing, features, known issues, getting started, and technical support.

#### Related resources

- [BlueView Log Image Manipulation Software](#) (9.34 MB ZIP)

[Request More Information](#)

Save the **blueview\_software.zip** file to your computer

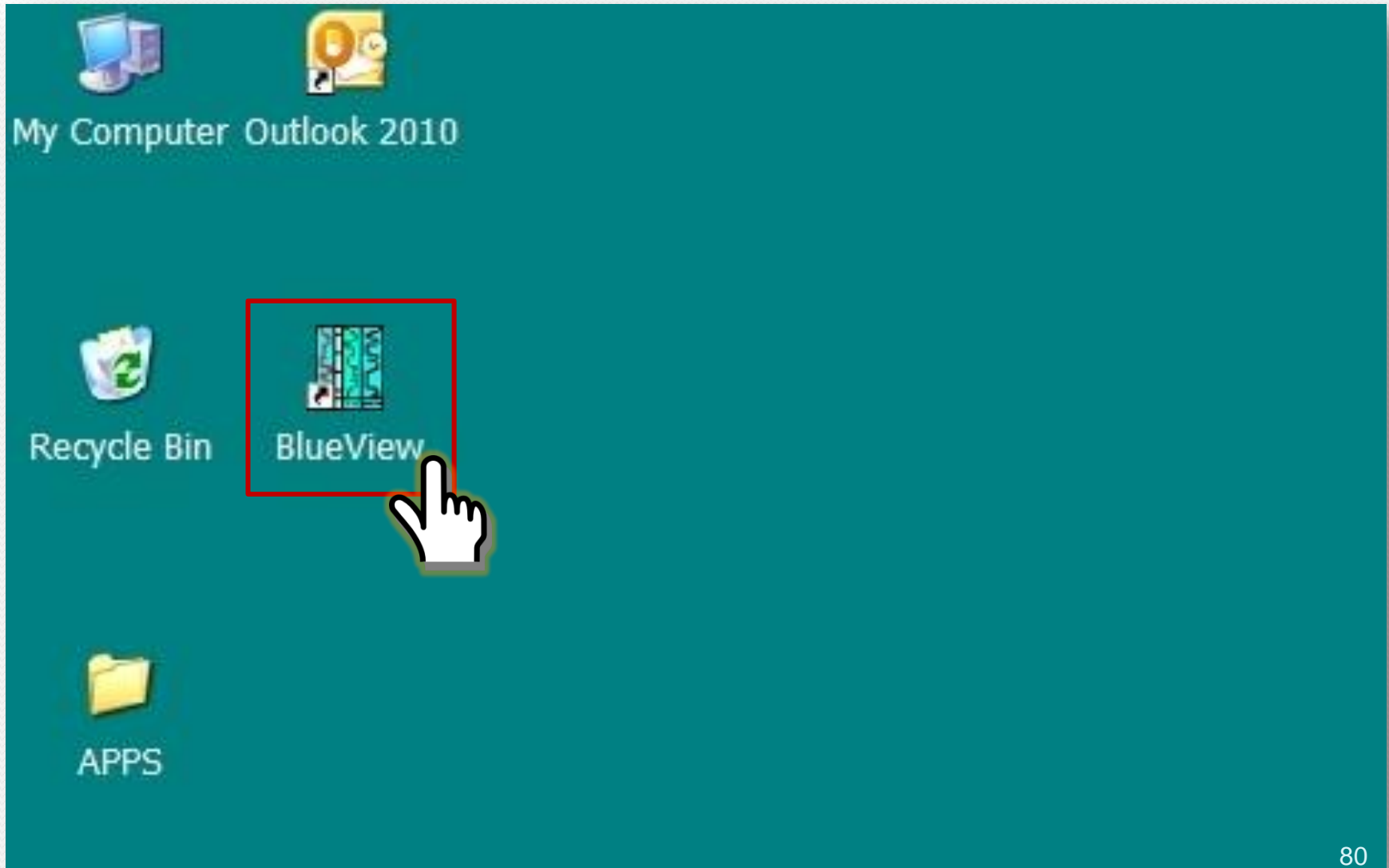


**Double click** on the executable file and follow the download instructions to **install** BlueView to your computer

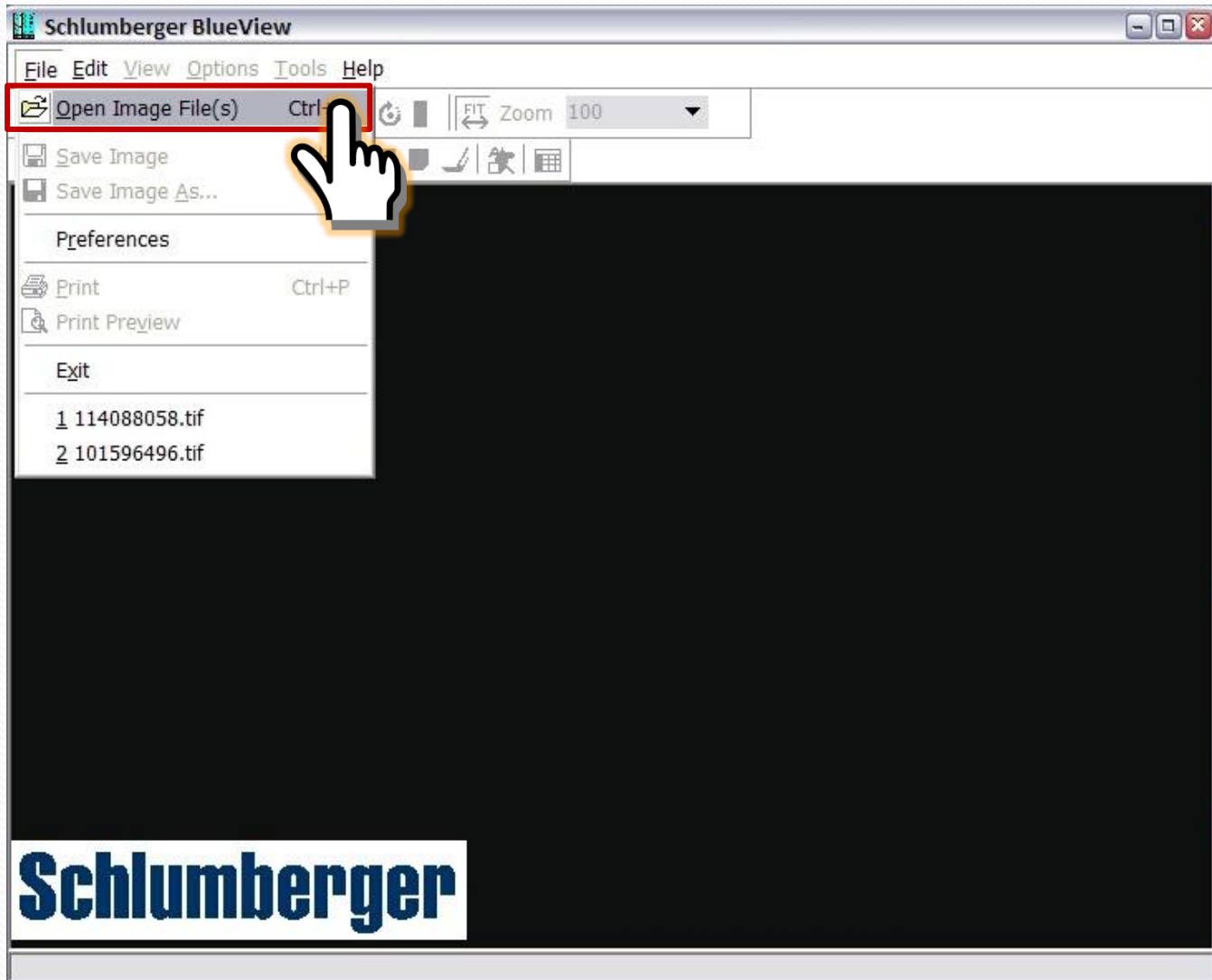


# Viewing a Log

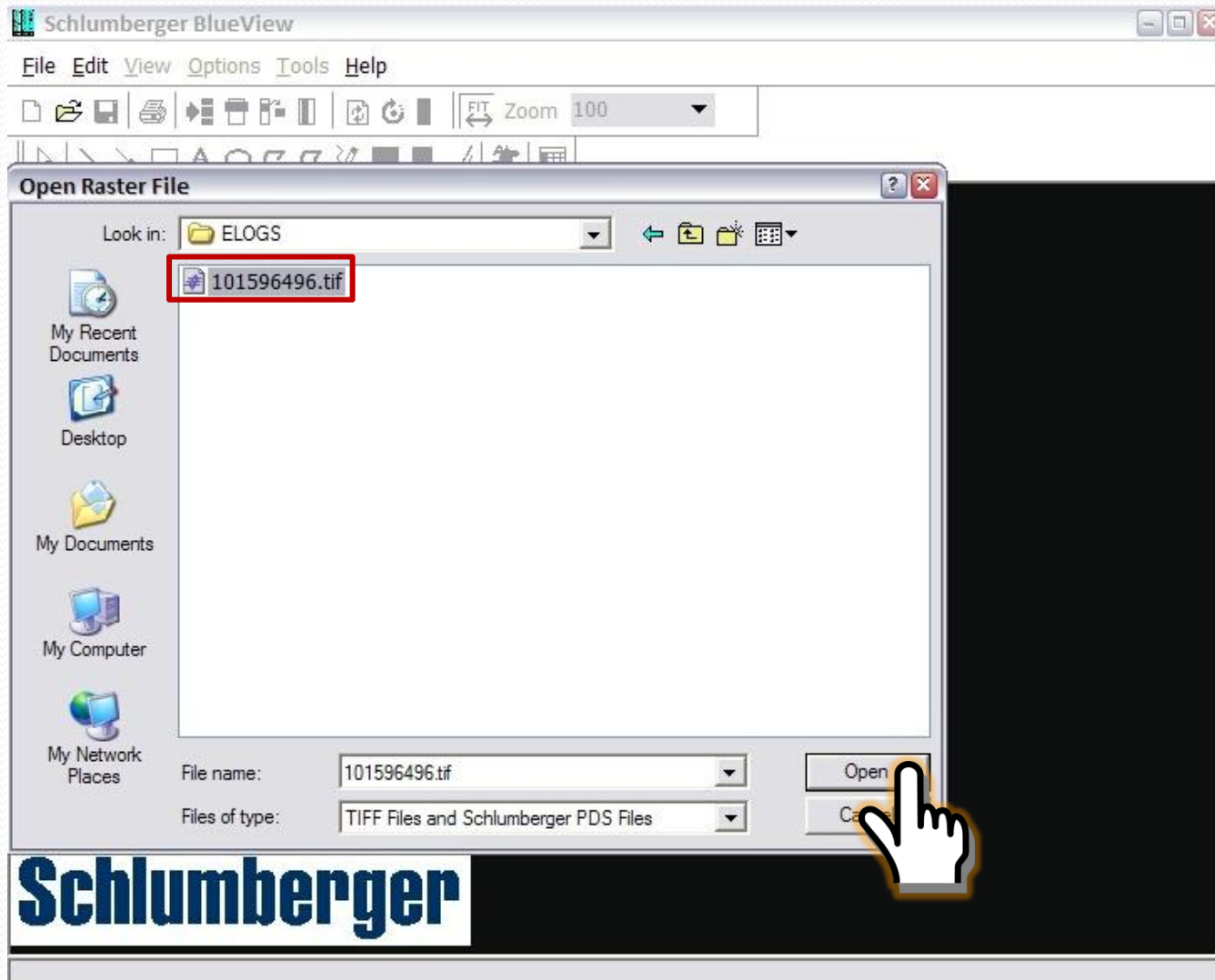
Once downloaded, locate the **Blueview icon** on your desktop and **double-click** to open.



Select **File** from the top menu, and choose **Open Image File(s)** from the drop down menu.



# Locate the Elog saved to your computer and Open it in Blueview





Make sure the **FIT** button is selected in the menu bar.  
**Scroll down** to view the entire log.

Schlumberger BlueView : C:\ELOGS\101596496.tif

File Edit View Options Tools Help

Zoom 100

Show Images at Native Width

**FIT**

**Schlumberger**  
 Schlumberger Well Services Corporation  
 Houston, Texas

**ELECTRICAL LOG**

COMPANY METZ & CARMODY  
 Well # 102/00

WELL A.J. HADGEE #1

FIELD ZWOLLE

COUNTY SABINE STATE LA

LOCATION 275 S 900 E F.M. Co. Sec. 27 Twp. 8N Rge. 12W

Other Services:

Permanent Datum: SUB. C&G (GL), Elev. 273.9  
 Log Measured From: K.B. as. B. Fl. Above Perm. Datum  
 Drilling Measured From: K.B. as. B. Fl. Above Perm. Datum

Elev.: K.B. 281.9  
 D.F. 280.9  
 G.I. 273.9

Date	Run No.	Depth—Driller	Depth—Logger	Bim. Log Interval	Top Log Interval	Casing—Driller	Casing—Logger	Bit Size	Type Fluid In Hole	Dens. Visc.	pH	Fluid Loss	Source of Sample	Ra. @ Meas. Temp.	Ra. @ Meas. Temp.	Source Ra. Rsk	Time Since Circ.	Max. Rec. Temp.	Equip. Location	Recorded by	Witnessed by
12-5-37	025E	2371	2371	2371	101	1" @ 10'		6 1/4	Oil	9.6	3.8	N/A	NH ml	0.0	0.0	0.0	2 hrs	4501 SHV	MAVEFIELD	METZ - CARMODY - FLEMING - HADGEE - HADGEE	

THIS READING IS TO BE COMPARED TO THE ORIGINAL

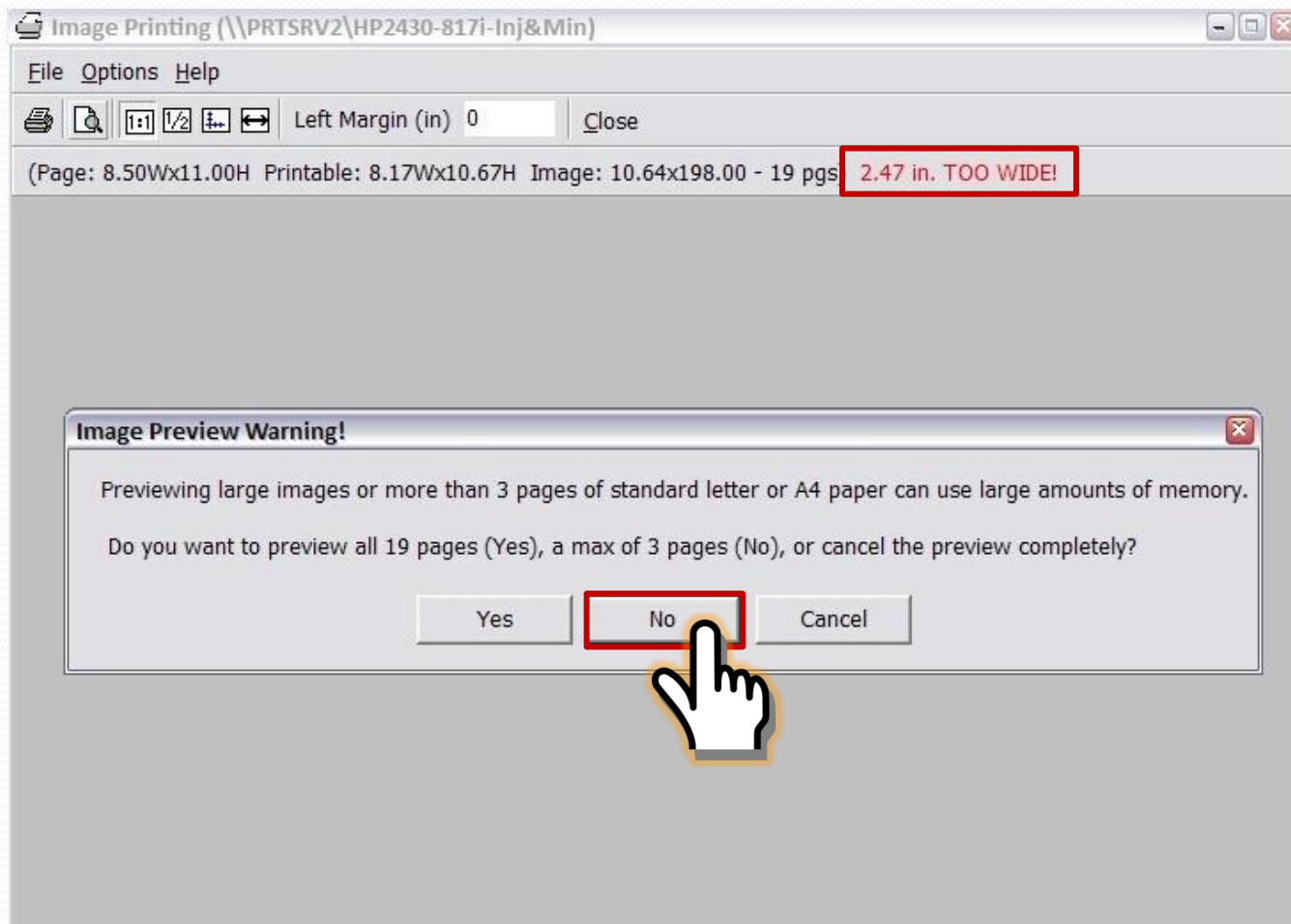
Image Properties : 10.64 W x 198.00 H (in) : 2128 W x 39600 H (dots) : 200 DPI : 1 bit color X=695, Y=109



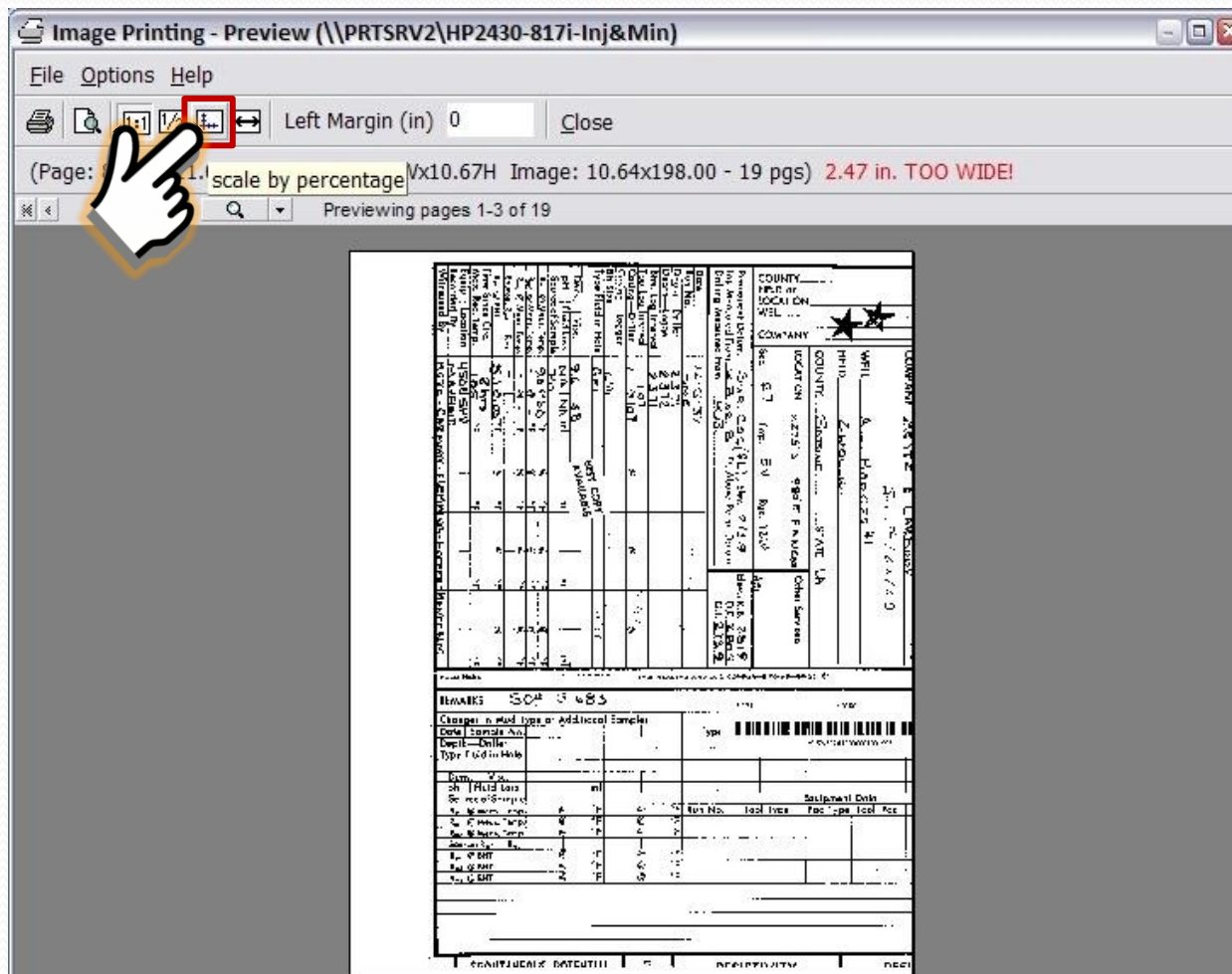
# Printing a Log



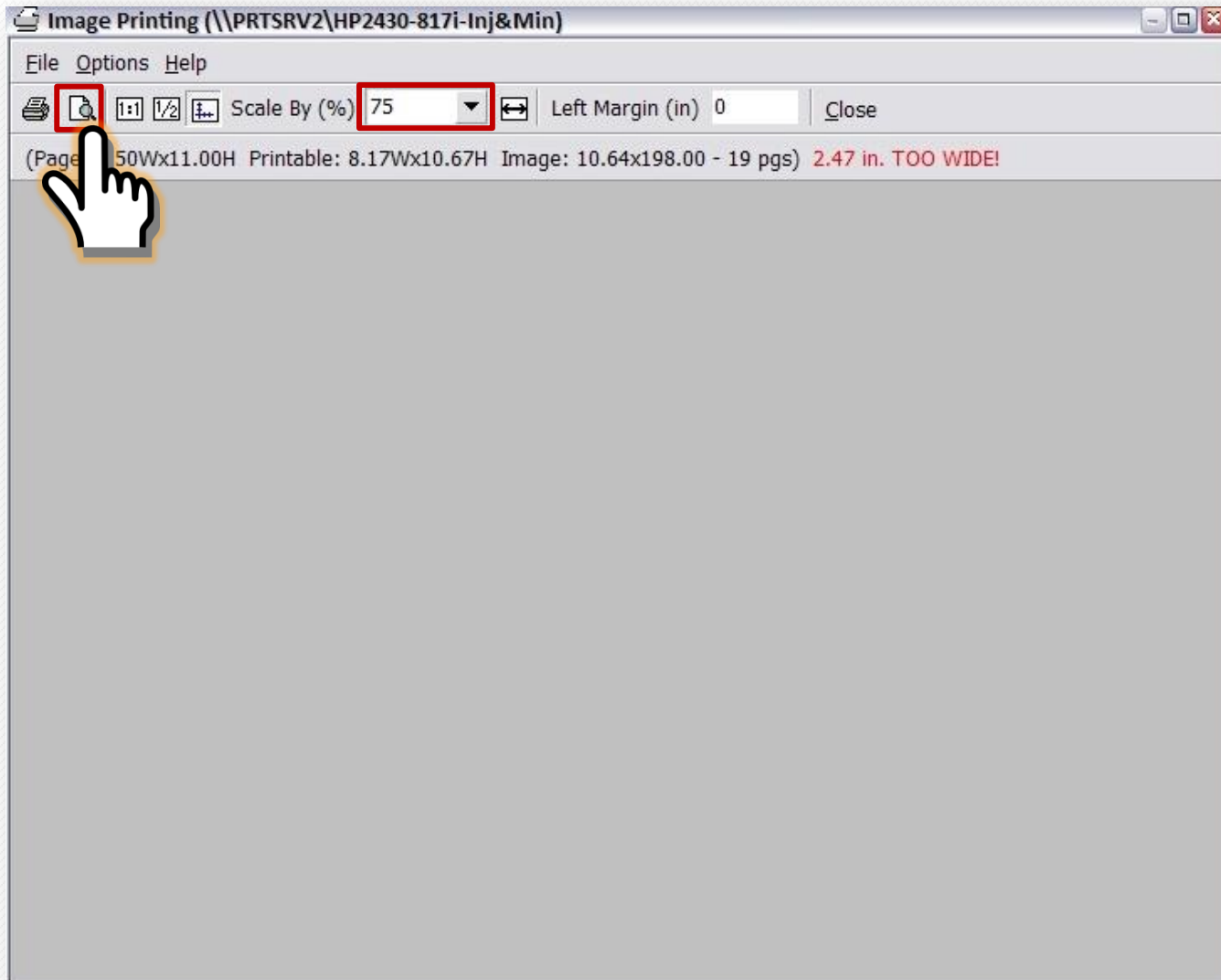
Previewing large images takes a lot of memory.  
The program will ask if you want to view the ENTIRE IMAGE (Yes), or ONLY 3 PAGES (No). Select No.



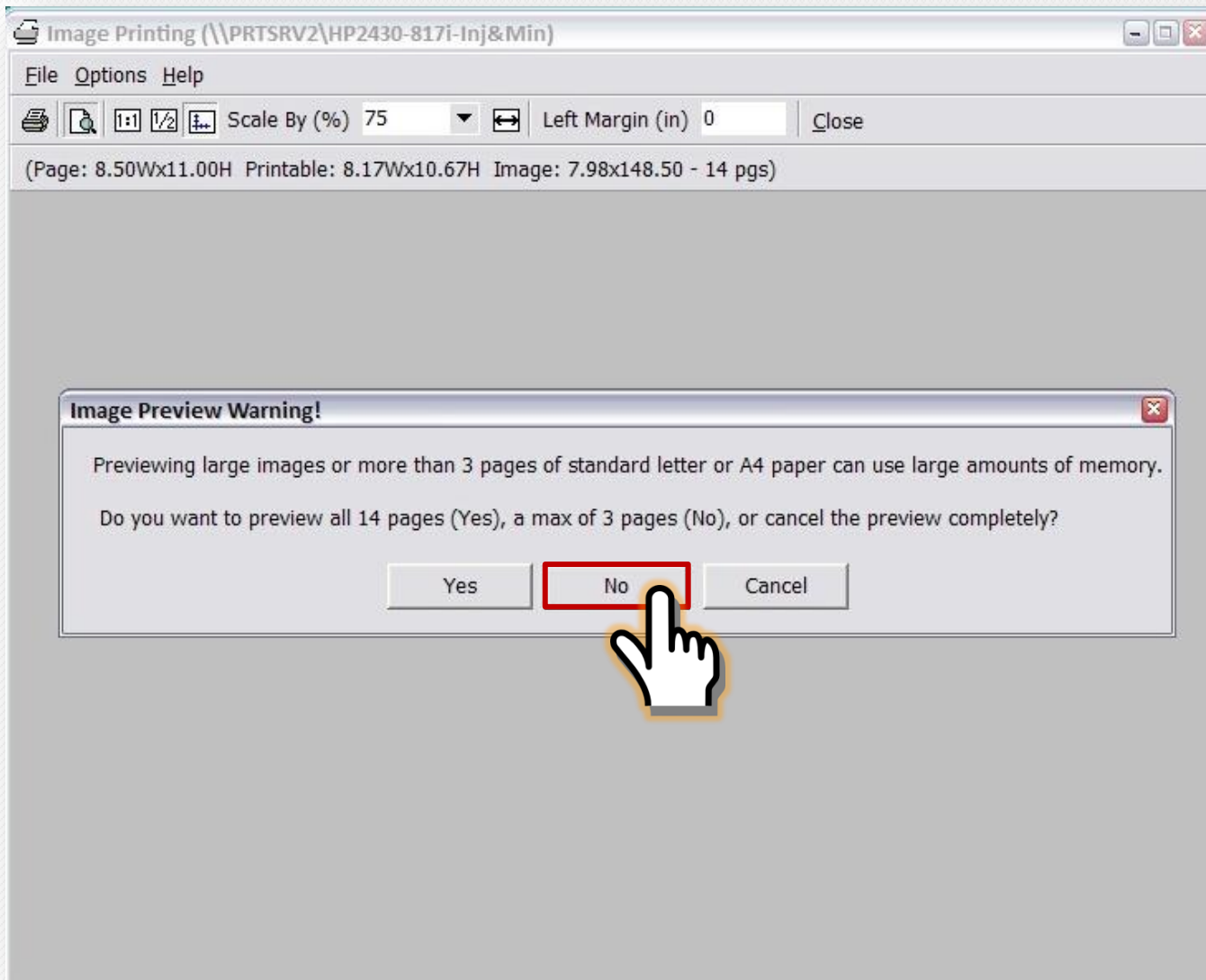
Preview the log. If the elog width does not fit on the page, adjust the size of the image by selecting the **Scale by Percentage** button from the menu bar.



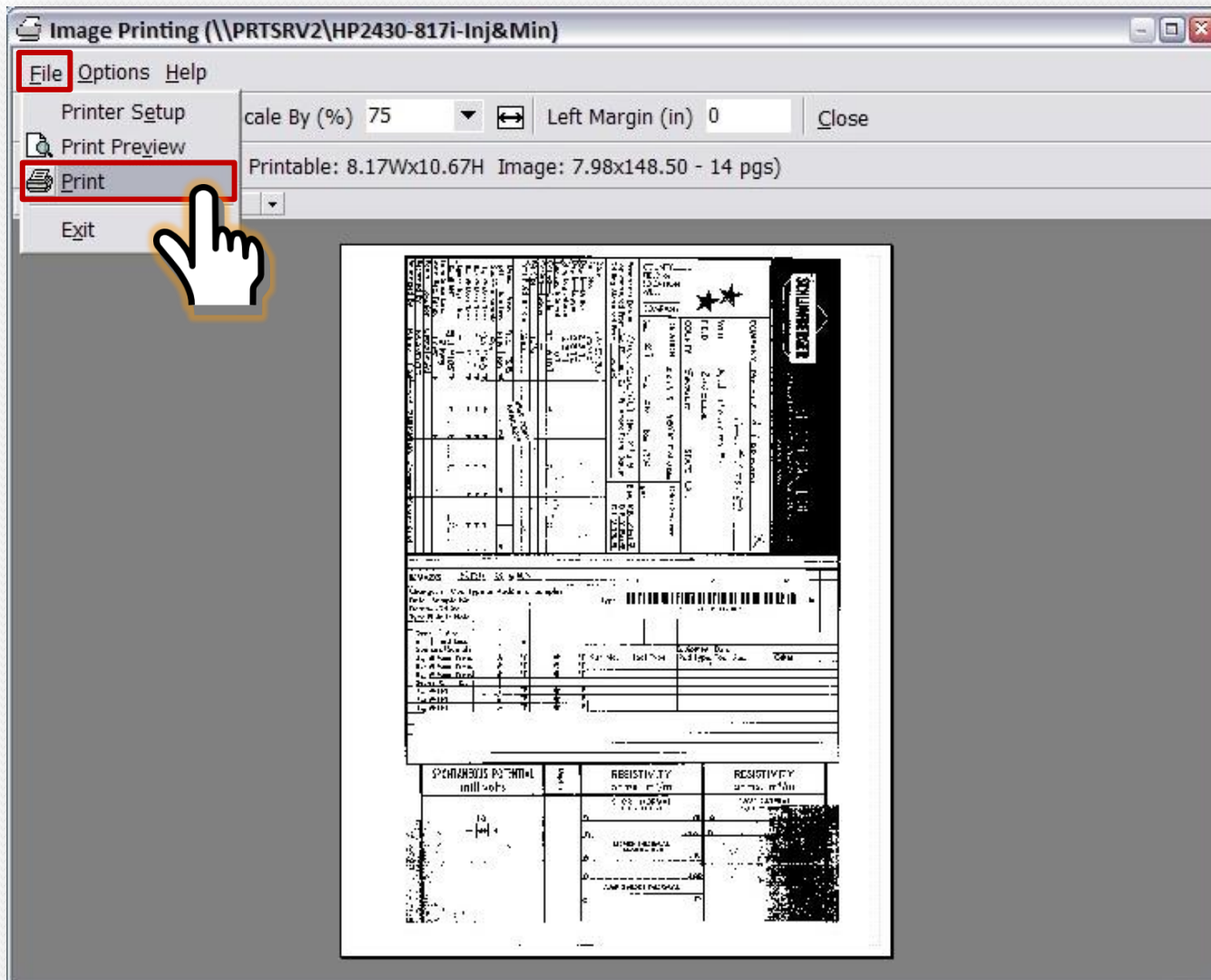
Enter a new **Percentage** in the Scale By (%) field, and select the **Print Preview** button from the menu bar.



Preview **Only 3 Pages** by selecting the **No** button.

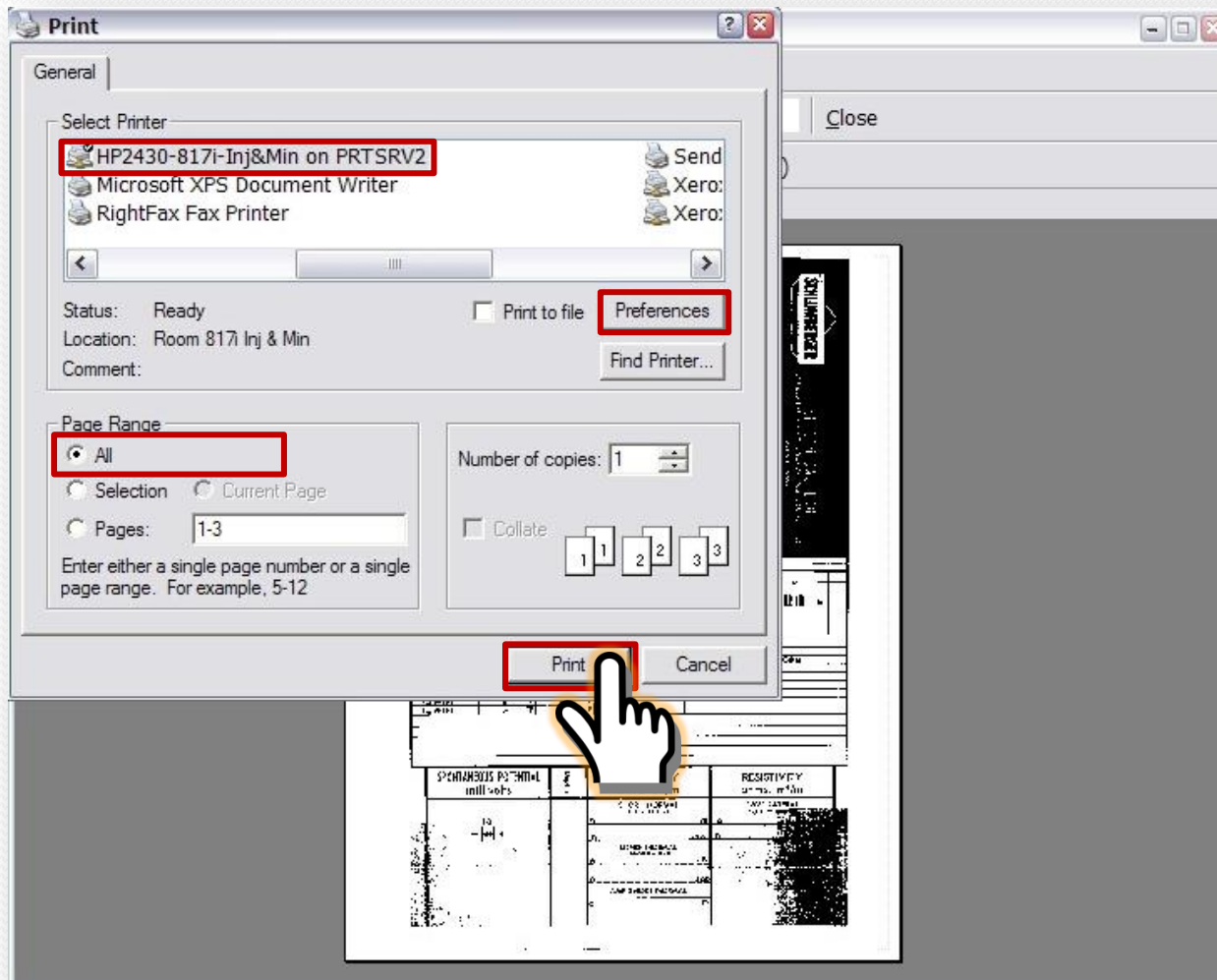


When you are ready to Print, select **File** from the menu bar, and choose **Print** from the drop-down menu





Select the name of the **Printer**, select the **Preferences** button to adjust the printer settings, under the Page Range section choose **All**, and when ready click the **Print** button.





# ***IMD Contact List***

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