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:

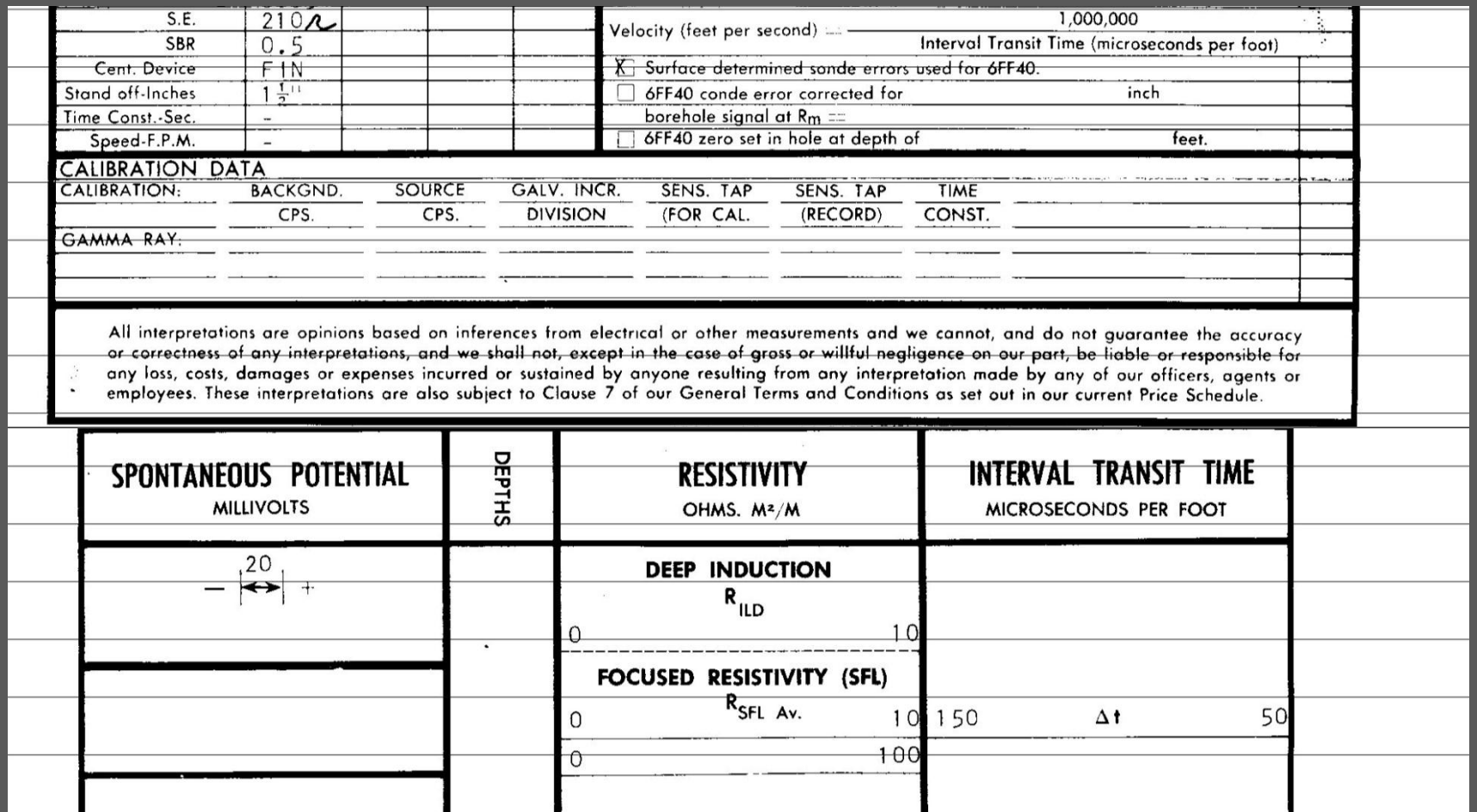
- An aquifer or its portion which supplies any public water system; or
- An aquifer or its portion which contains a sufficient quantity of ground water to supply a public water system; and
  - Currently supplies drinking water for human consumption; or
  - Contains fewer than 10,000 mg/l total dissolved 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
SBR	0.5
Cent. Device	FIN
Stand off-Inches	1½"
Time Const.-Sec.	-
Speed-F.P.M.	-

Velocity (feet per second) — 1,000,000 / Interval Transit Time (microseconds per foot)

☒ Surface determined sonde errors used for 6FF40.

☐ 6FF40 conde error corrected for inch borehole signal at R_m =

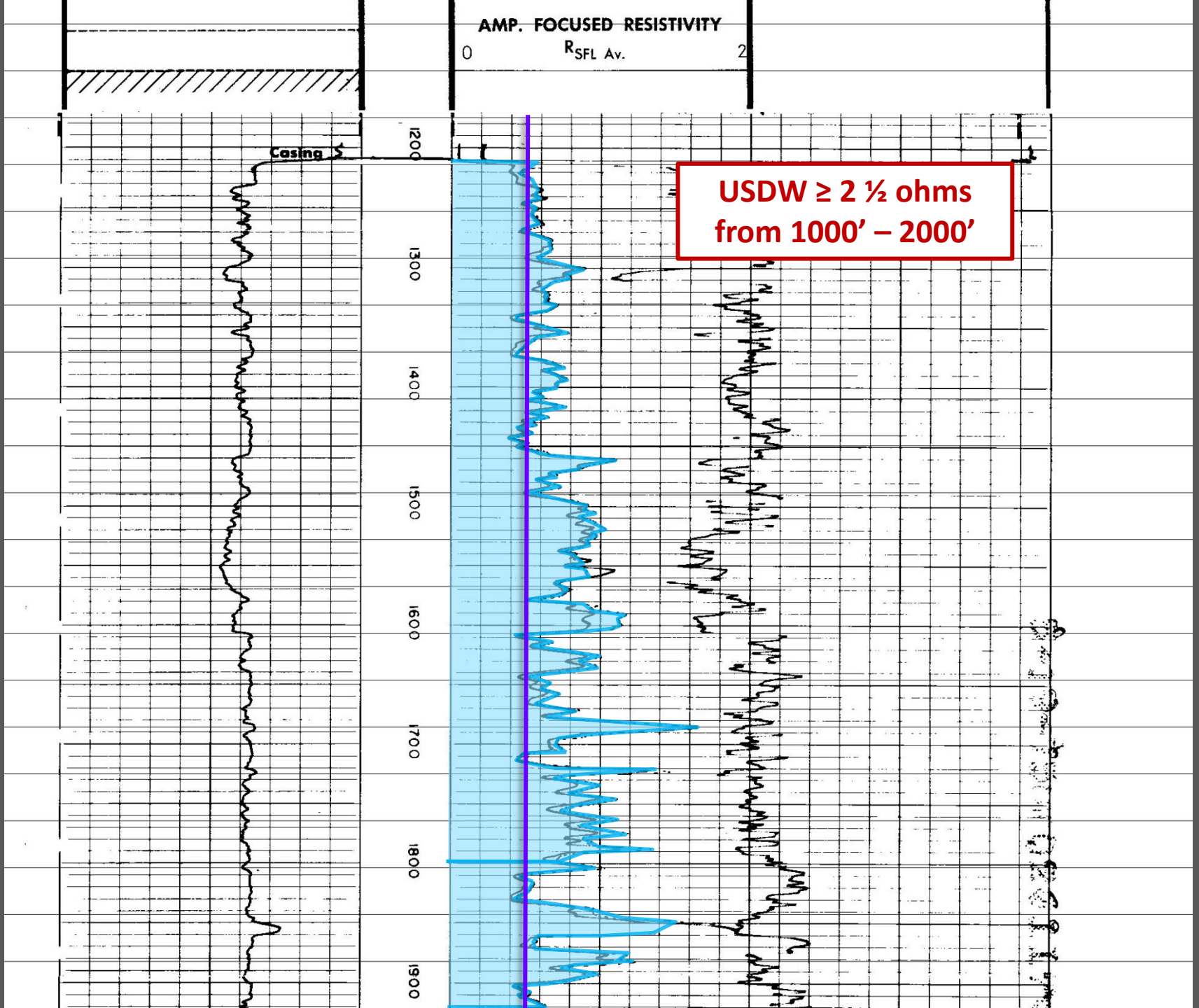
☐ 6FF40 zero set in hole at depth of feet.

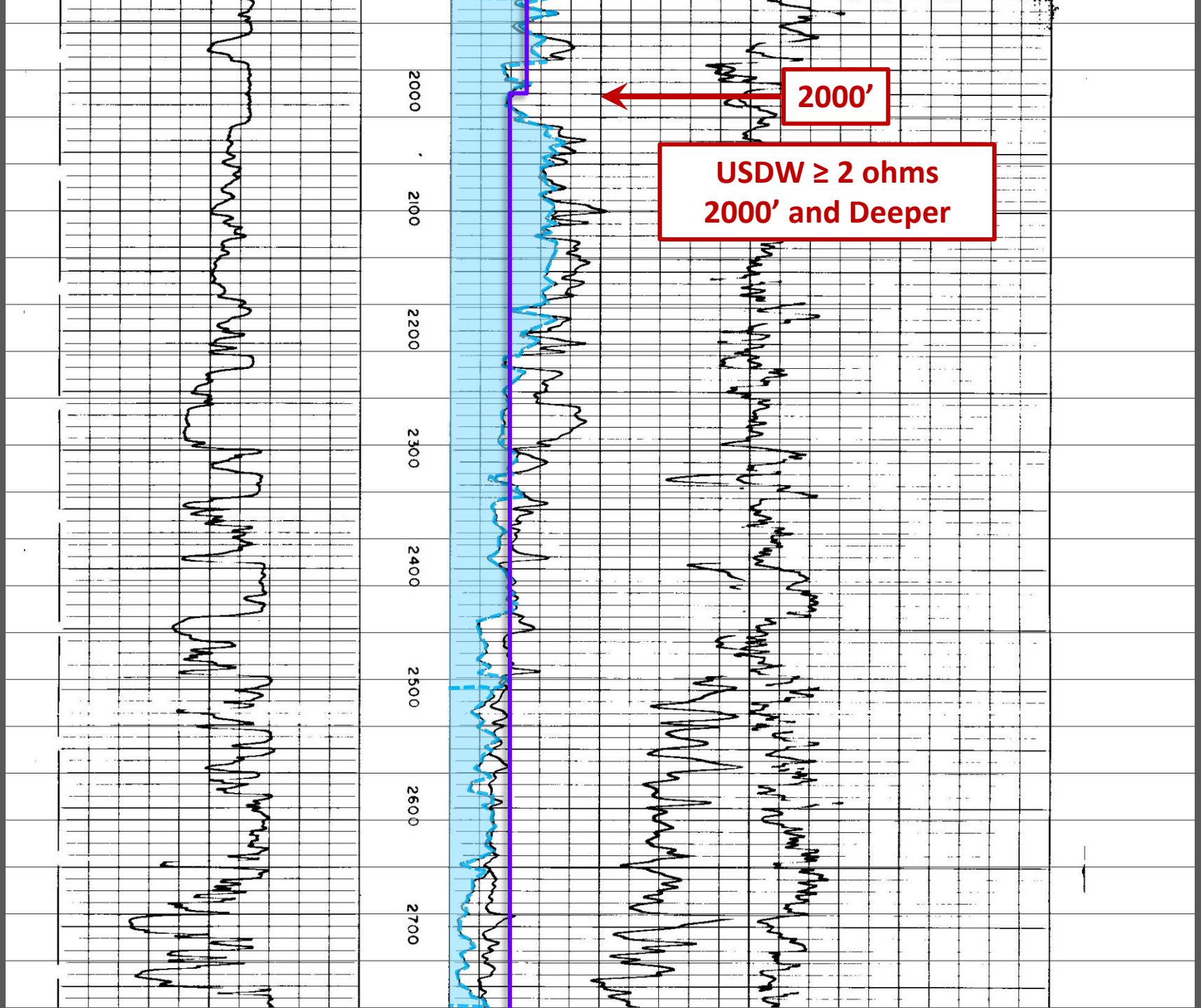
CALIBRATION DATA

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

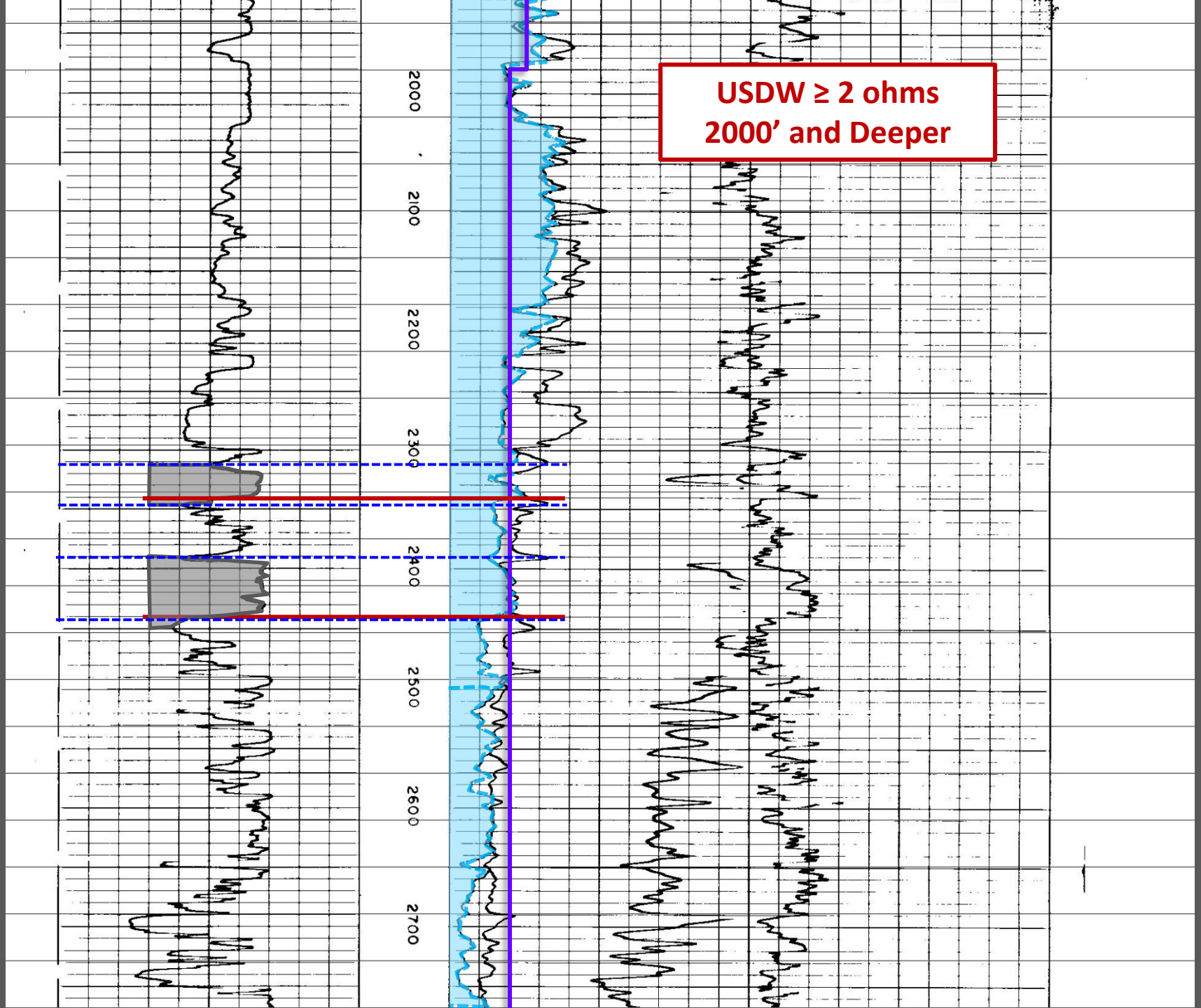
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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.

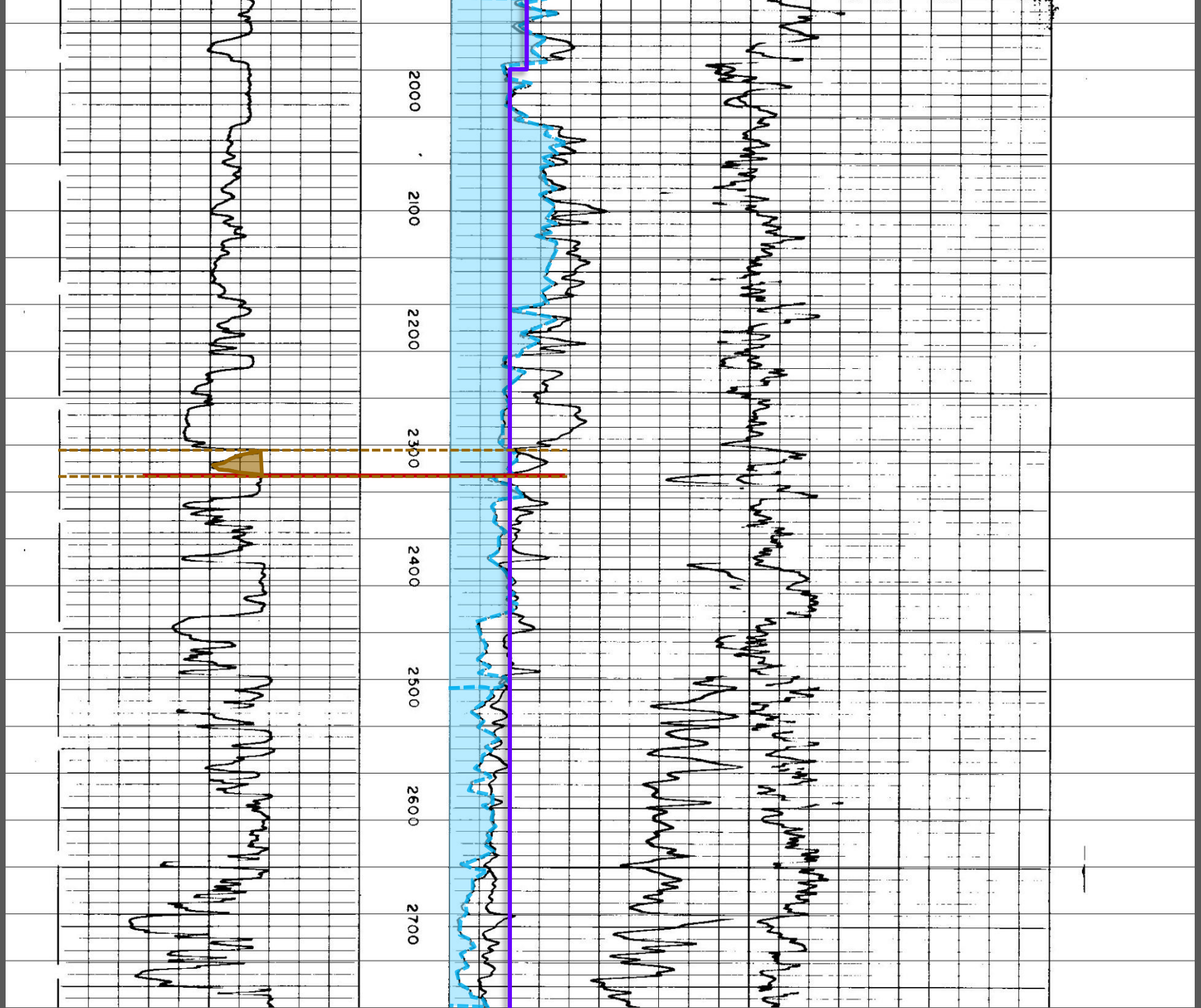
SPONTANEOUS POTENTIAL MILLIVOLTS	DEPTHS	RESISTIVITY OHMS. M²/M	INTERVAL TRANSIT TIME MICROSECONDS PER FOOT
20 (— ↔ +)		DEEP INDUCTION R_{ILD} 0 — 10	
		FOCUSED RESISTIVITY (SFL) $R_{SFL\ Av.}$ 0 — 10	150 Δt 50
		0 — 100	

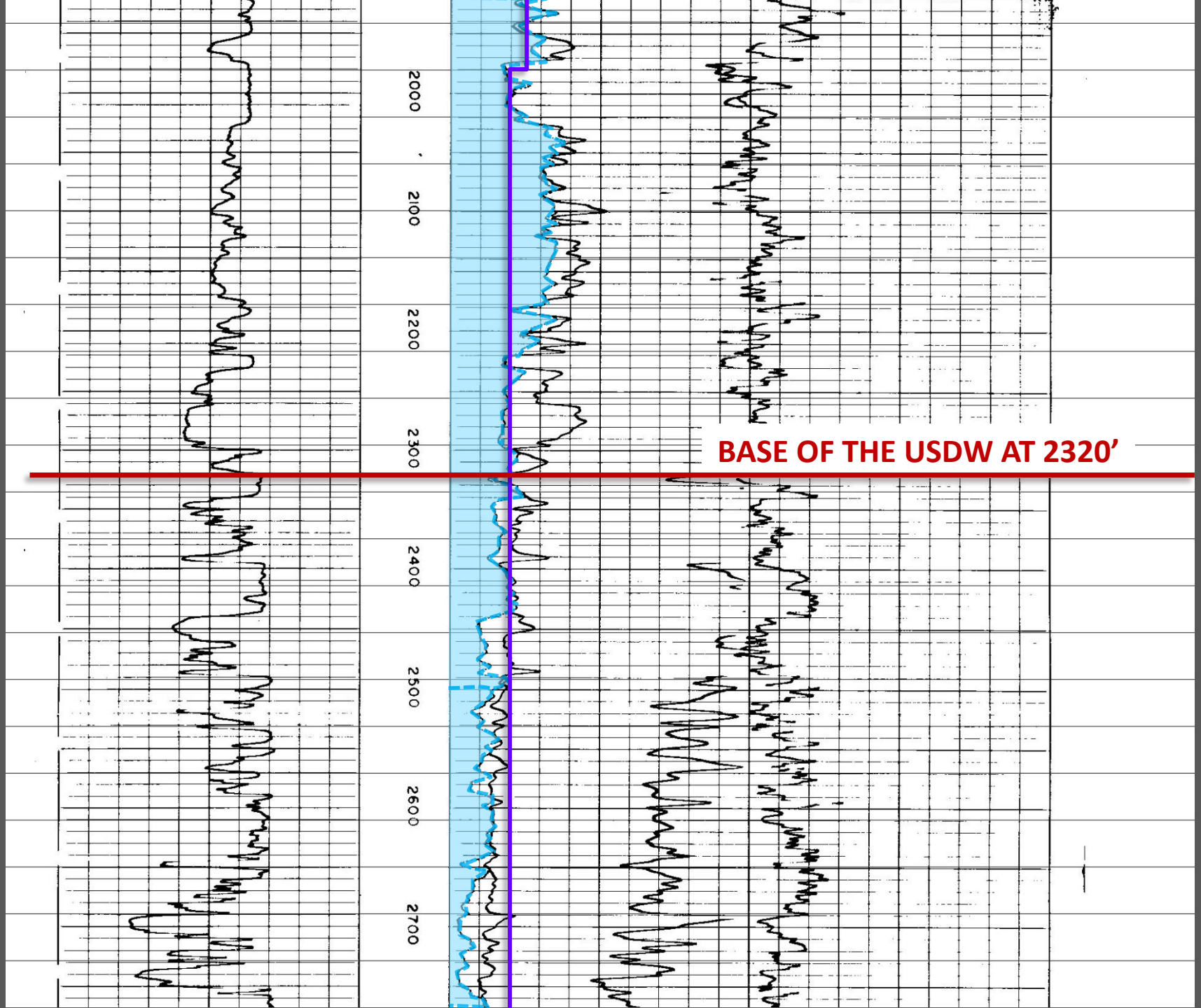

AMP. FOCUSED RESISTIVITY
0
$R_{SFL\ Av.}$
2
Casing
1200
1300
1400
1500
1600
1700
1800
1900
USDW ≥ 2 ½ ohms
from 1000’ – 2000’

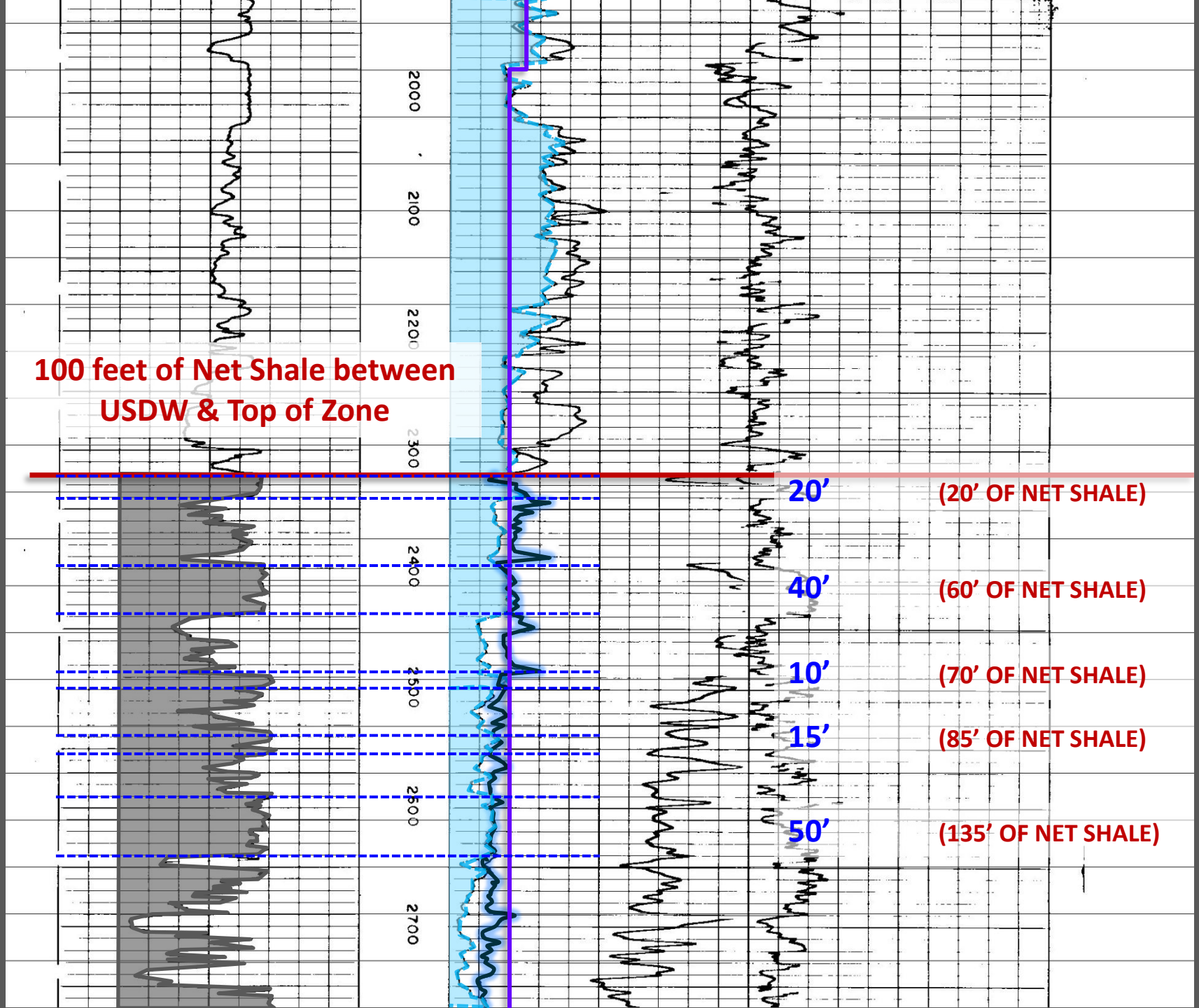

2000
2100
2200
2300
2400
2500
2600
2700
2000’
USDW ≥ 2 ohms
2000’ and Deeper

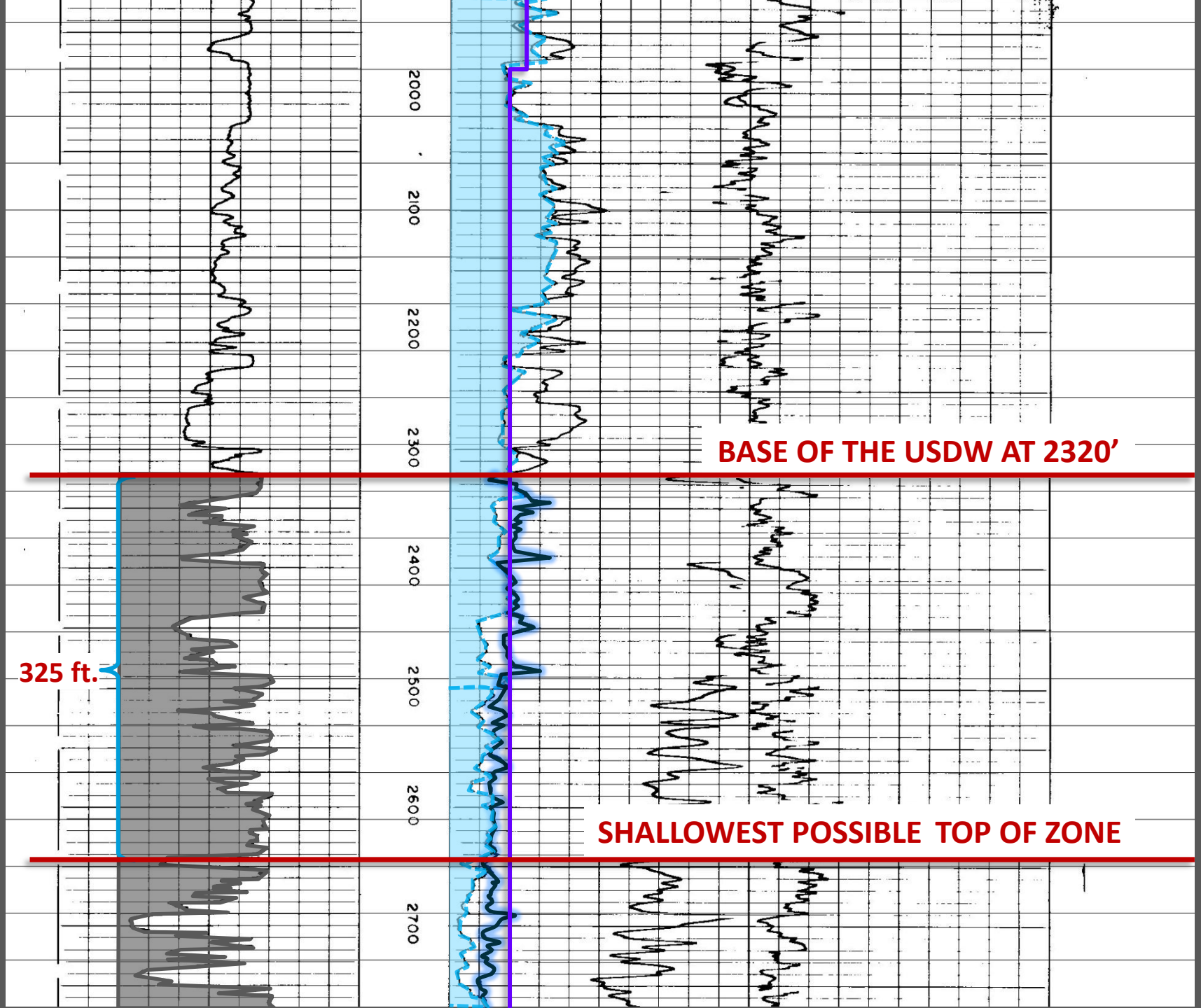
2800
2900
3000
3100
3200
3300
3400
3500
3600


USDW ≥ 2 ohms
2000’ and Deeper
2000
2100
2200
2300
2400
2500
2600
2700

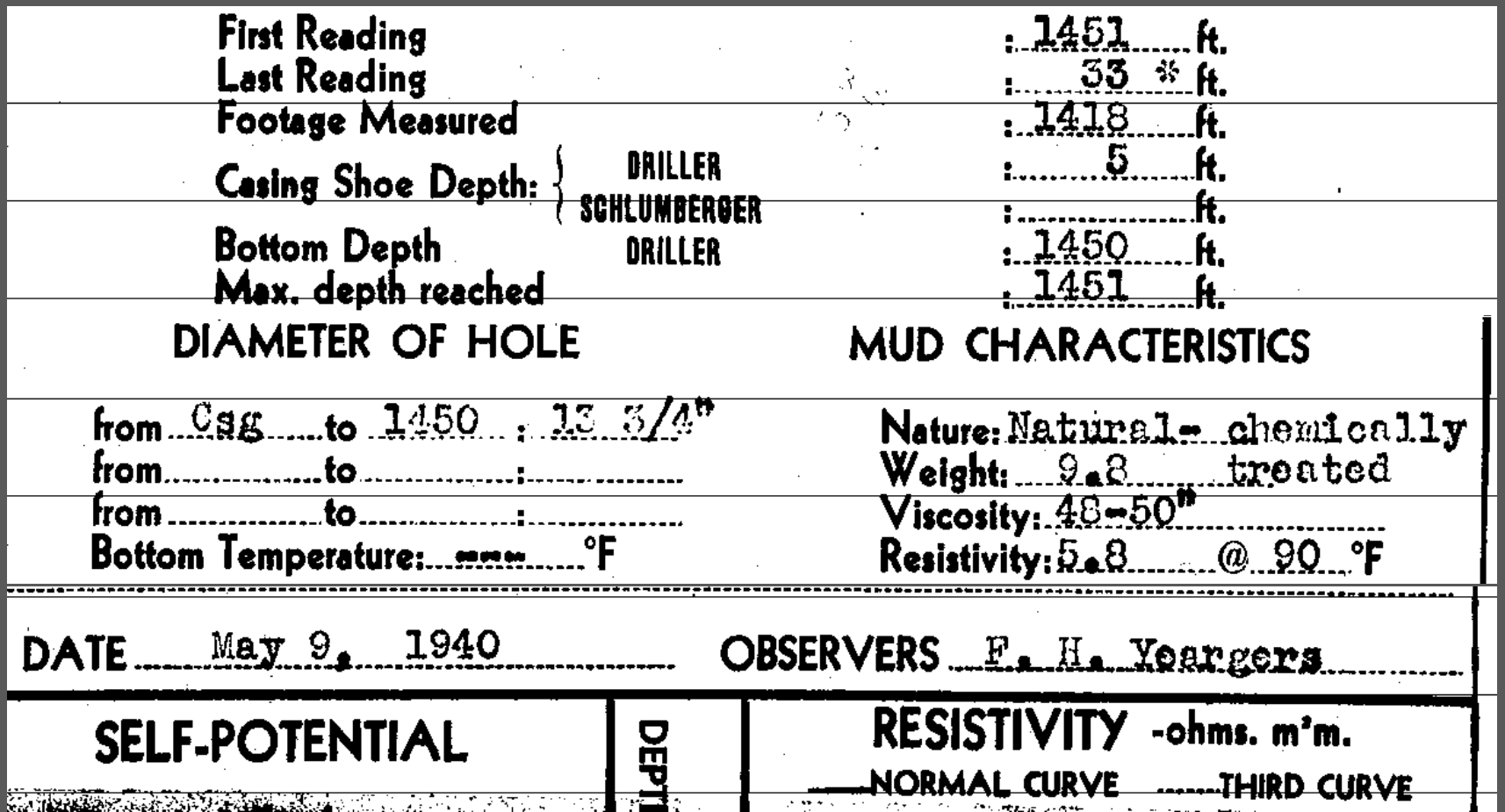

2000
2100
2200
2300
2400
2500
2600
2700


2000
2100
2200
2300
2400
2500
2600
2700
BASE OF THE USDW AT 2320’


100 feet of Net Shale between
USDW & Top of Zone
2000
2100
2200
2300
2400
2500
2600
2700
20’
(20’ OF NET SHALE)
40’
(60’ OF NET SHALE)
10’
(70’ OF NET SHALE)
15’
(85’ OF NET SHALE)
50’
(135’ OF NET SHALE)


2000
2100
2200
2300
2400
2500
2600
2700
BASE OF THE USDW AT 2320’
325 ft.
SHALLOWEST POSSIBLE 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**



First Reading : 1451 ft.
Last Reading : 33 * ft.
Footage Measured : 1418 ft.
Casing Shoe Depth: DRILLER : 5 ft.
SCHLUMBERGER : ft.
Bottom Depth DRILLER : 1450 ft.
Max. depth reached : 1451 ft.

DIAMETER OF HOLE

from Csg to 1450 : 13 3/4"
from to :
from to :
Bottom Temperature: ---- °F

MUD CHARACTERISTICS

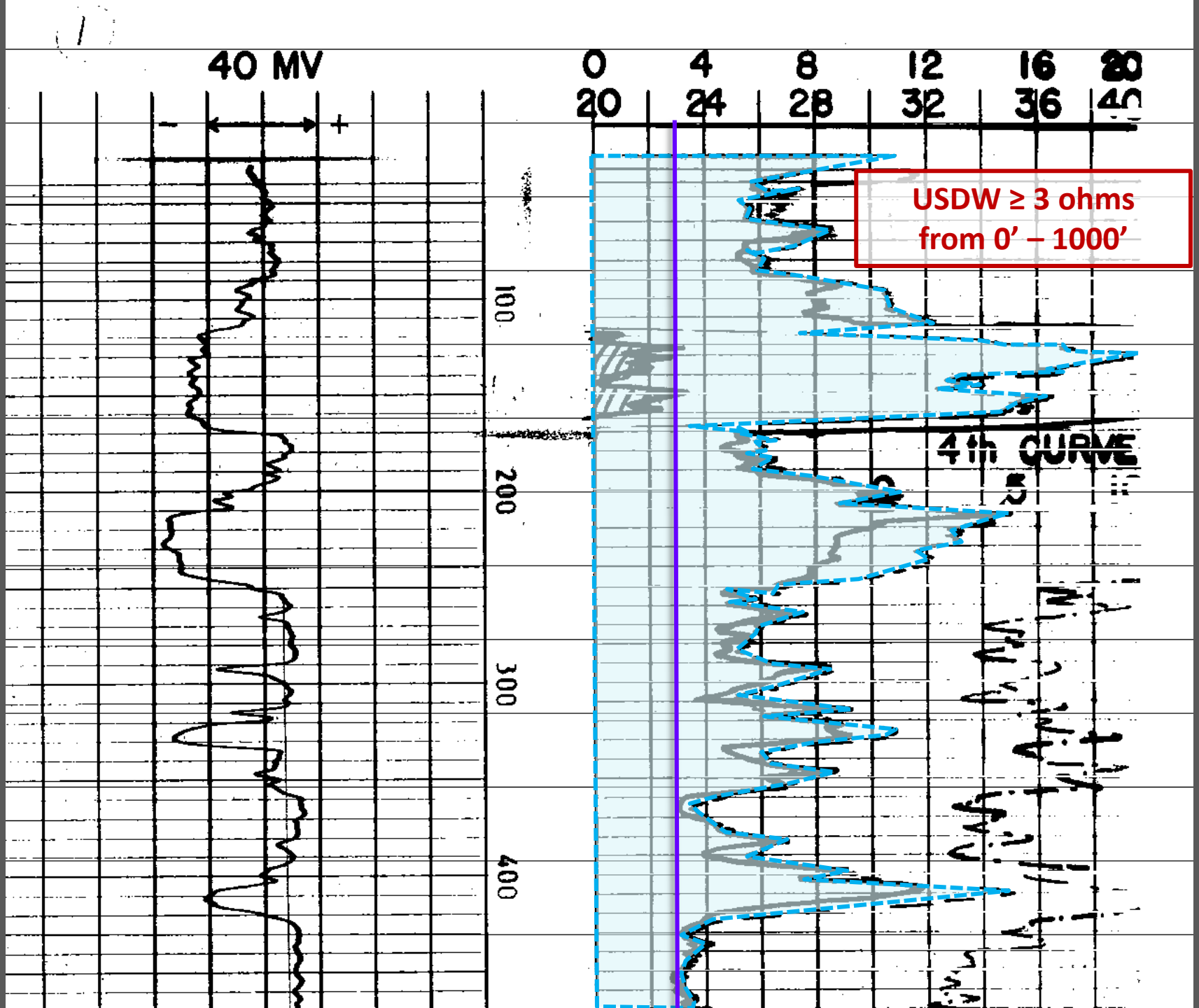
Nature: Natural- chemically
Weight: 9.8 treated
Viscosity: 48-50"
Resistivity: 5.8 @ 90 °F

DATE May 9, 1940 OBSERVERS F. H. Yeargers

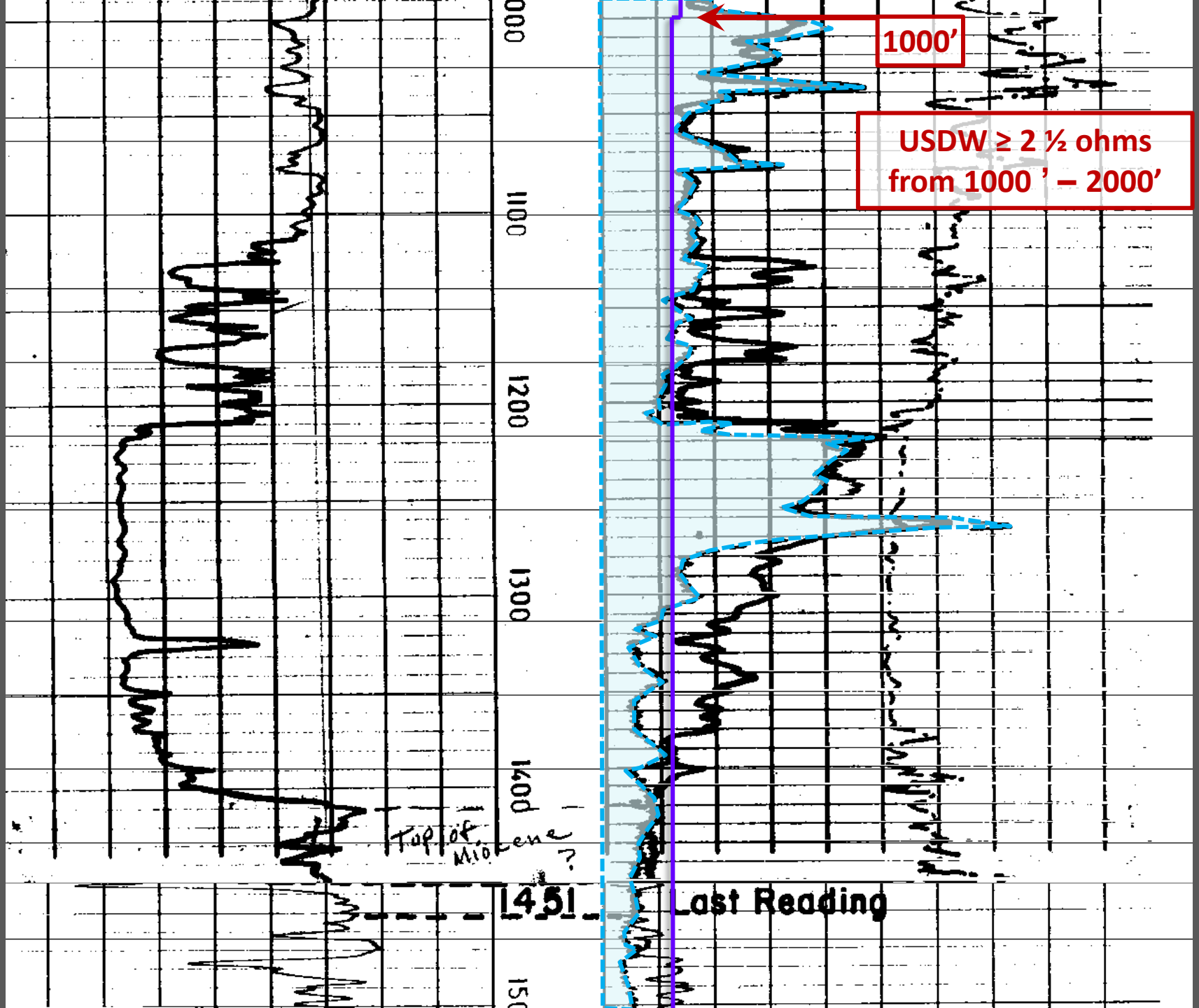
SELF-POTENTIAL

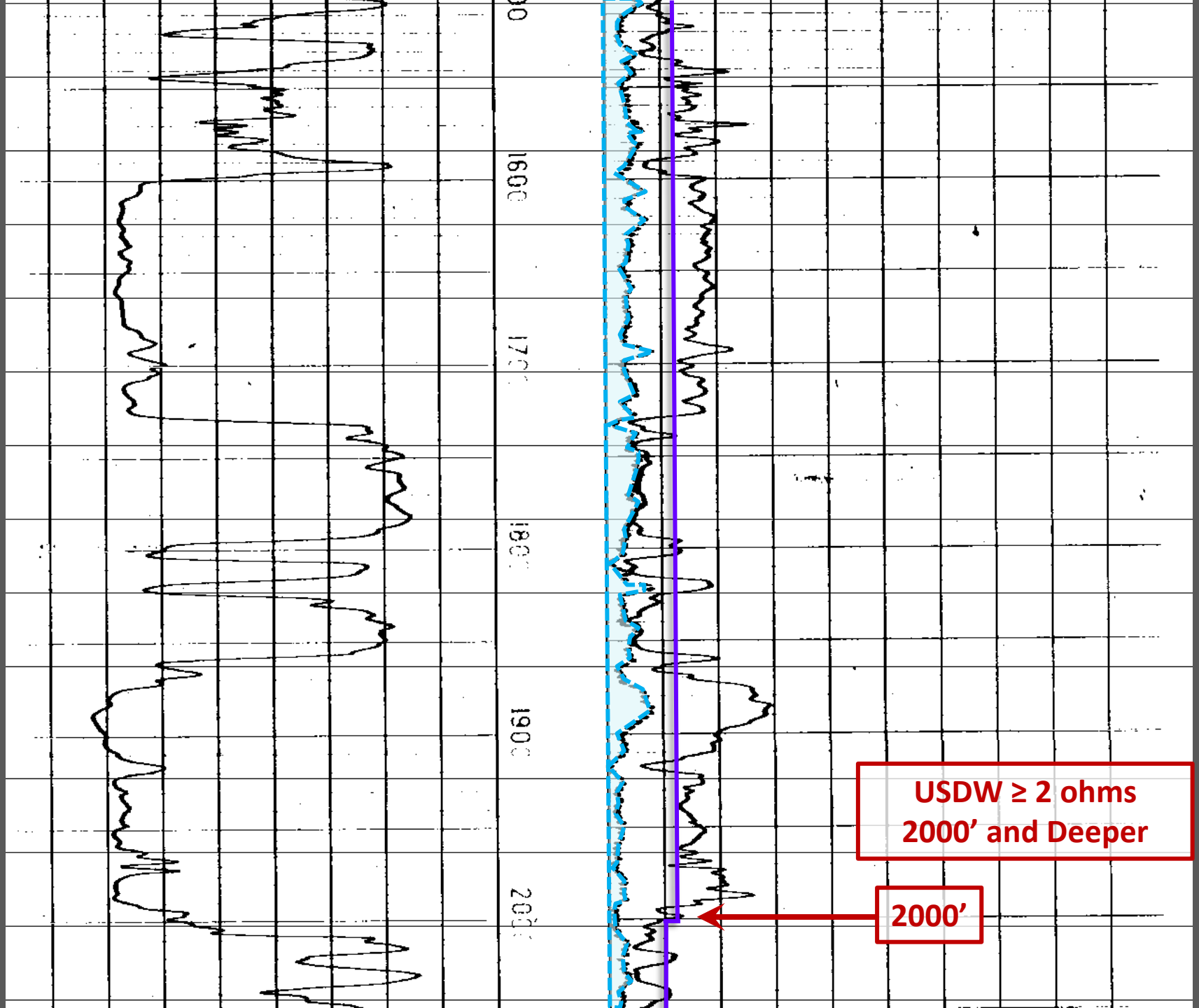
DEPTH

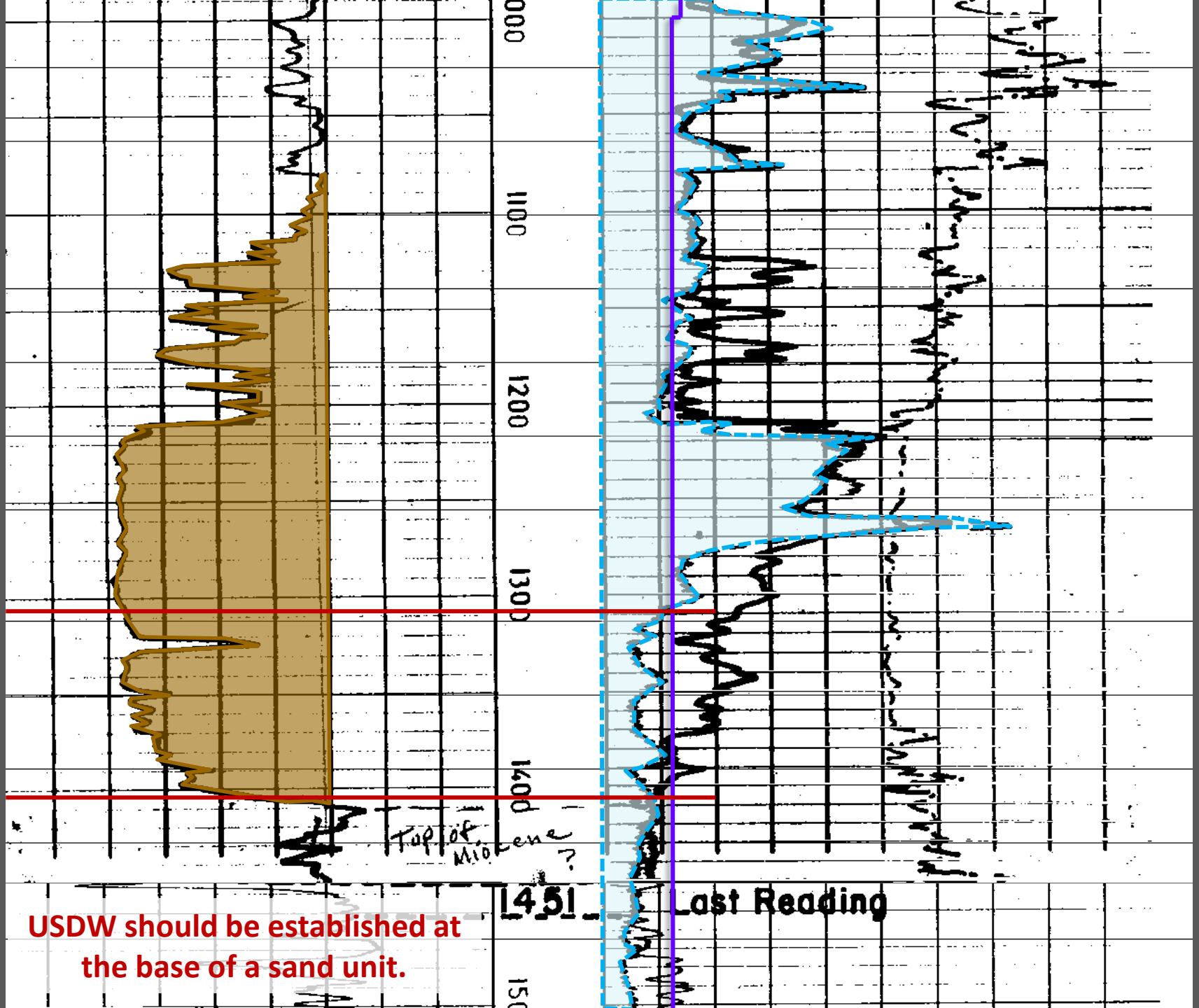
RESISTIVITY -ohms. m'm.
NORMAL CURVE THIRD CURVE


40 MV
0
4
8
12
16
20
20
24
28
32
36
40
100
200
300
400
4th CURVE
USDW ≥ 3 ohms
from 0’ – 1000’

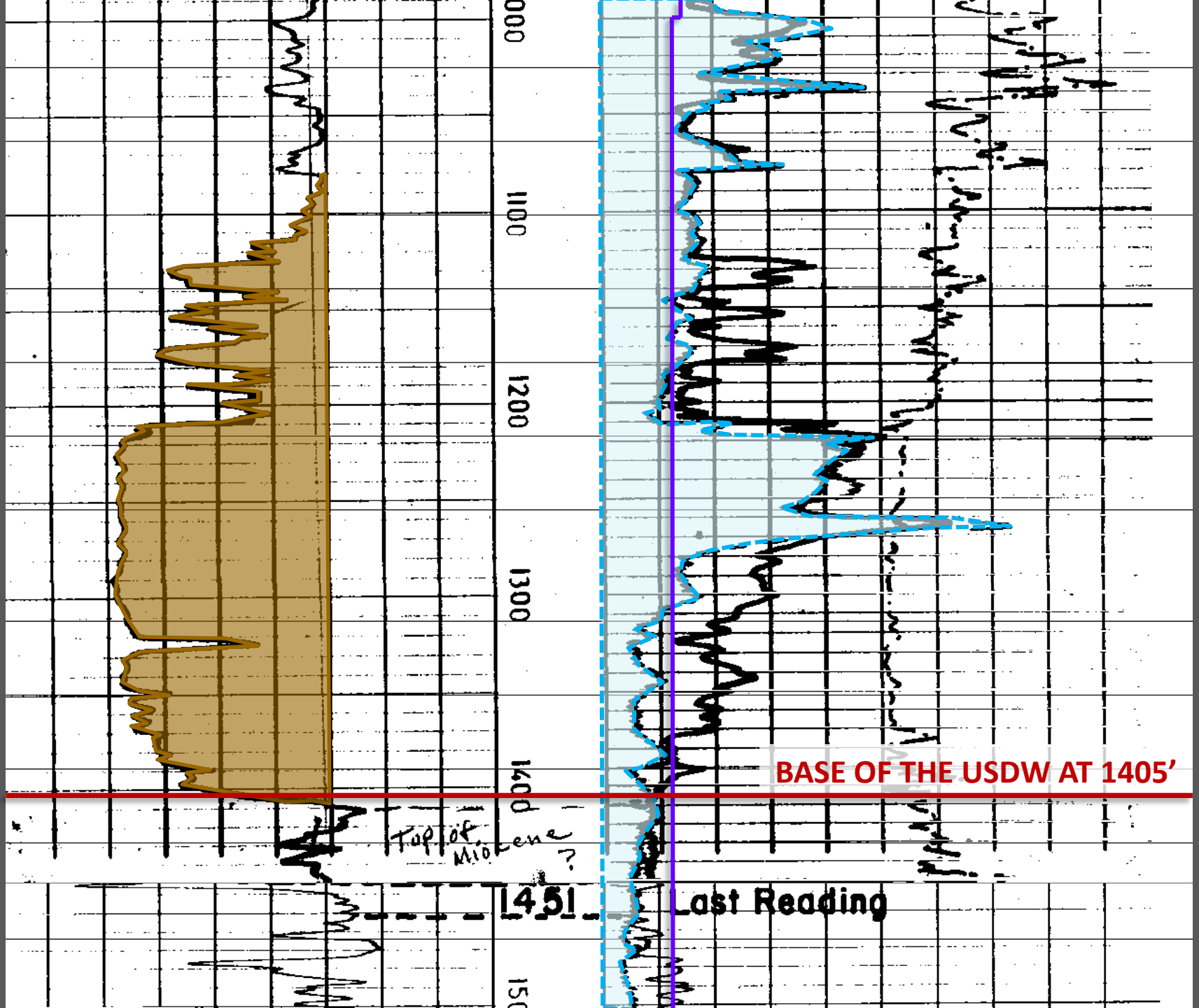
500
600
700
800
900

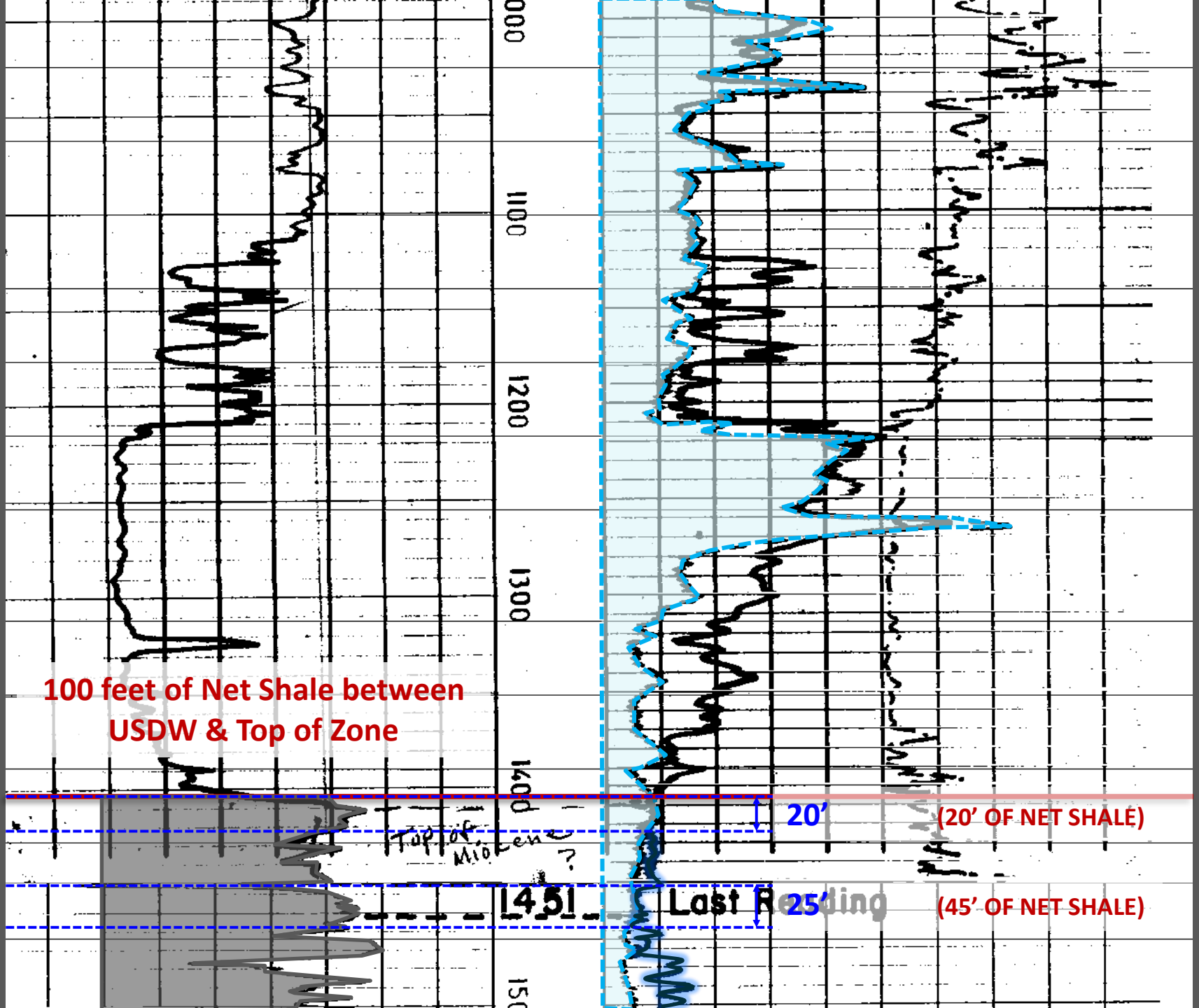

1000'
USDW ≥ 2 ½ ohms
from 1000 ' – 2000'
1000
1100
1200
1300
1400
1500
Top of Miocene ?
1451
Last Reading

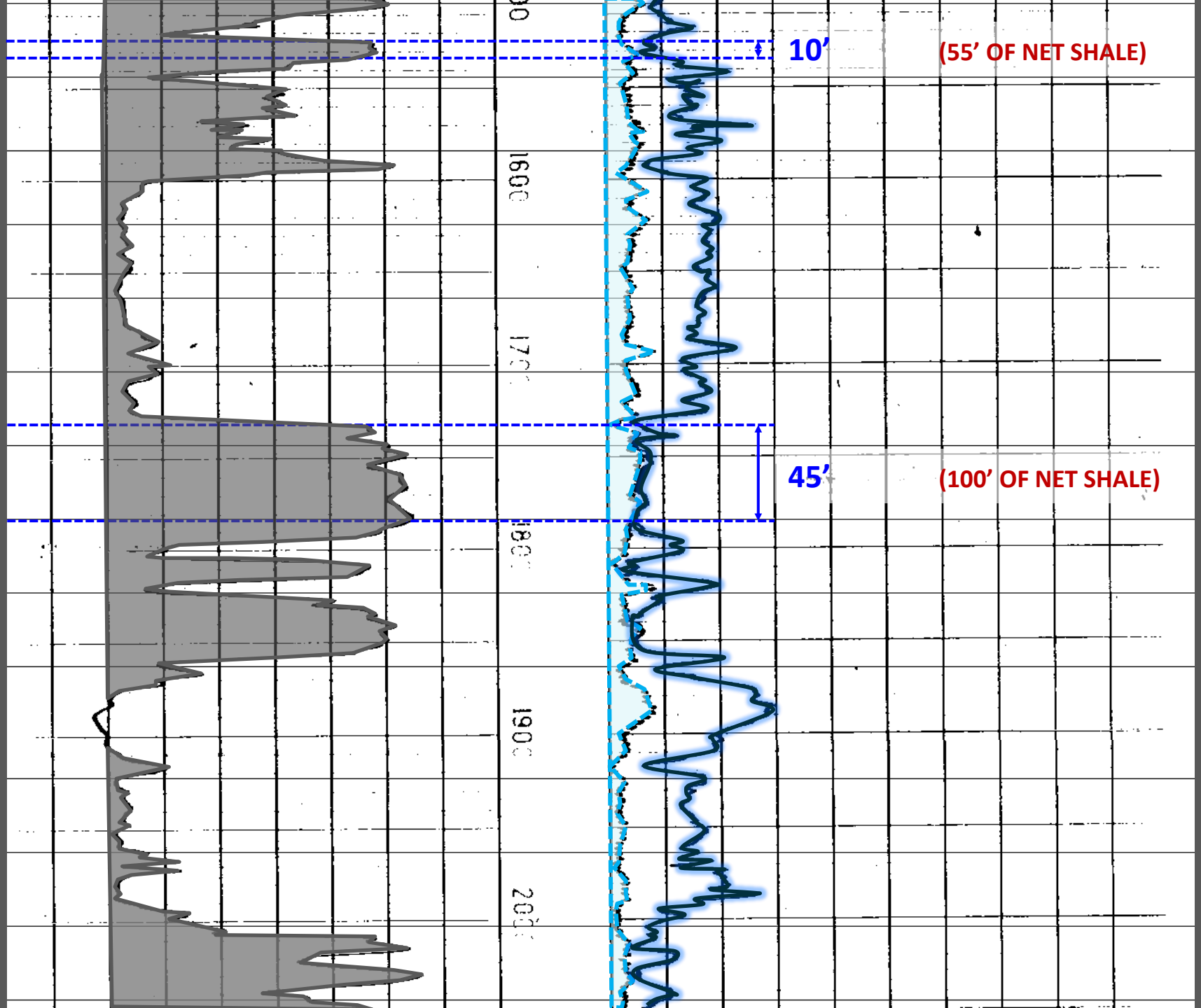

USDW ≥ 2 ohms
2000’ and Deeper
2000’

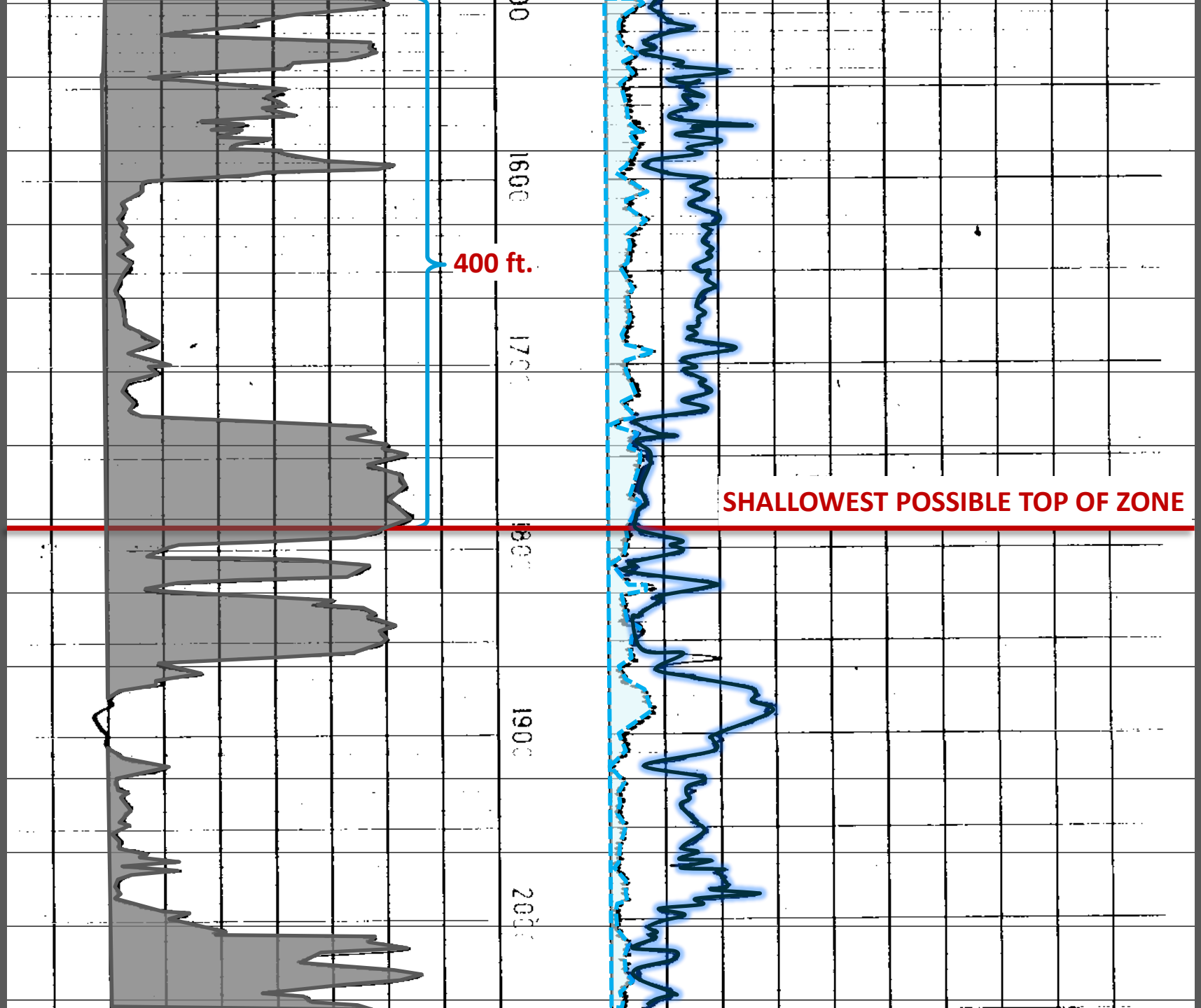


USDW should be established at the base of a sand unit.


1100
1200
1300
1400
Top of Miocene ?
1451
Last Reading
BASE OF THE USDW AT 1405’


100 feet of Net Shale between
USDW & Top of Zone
1000
1100
1200
1300
1400
1500
Top of Mio Lens ?
1451
Last Reading
20'
(20' OF NET SHALE)
25'
(45' OF NET SHALE)


10’
(55’ OF NET SHALE)
45’
(100’ OF NET SHALE)


400 ft.
SHALLOWEST POSSIBLE TOP OF ZONE

SONRIS & Discoverer

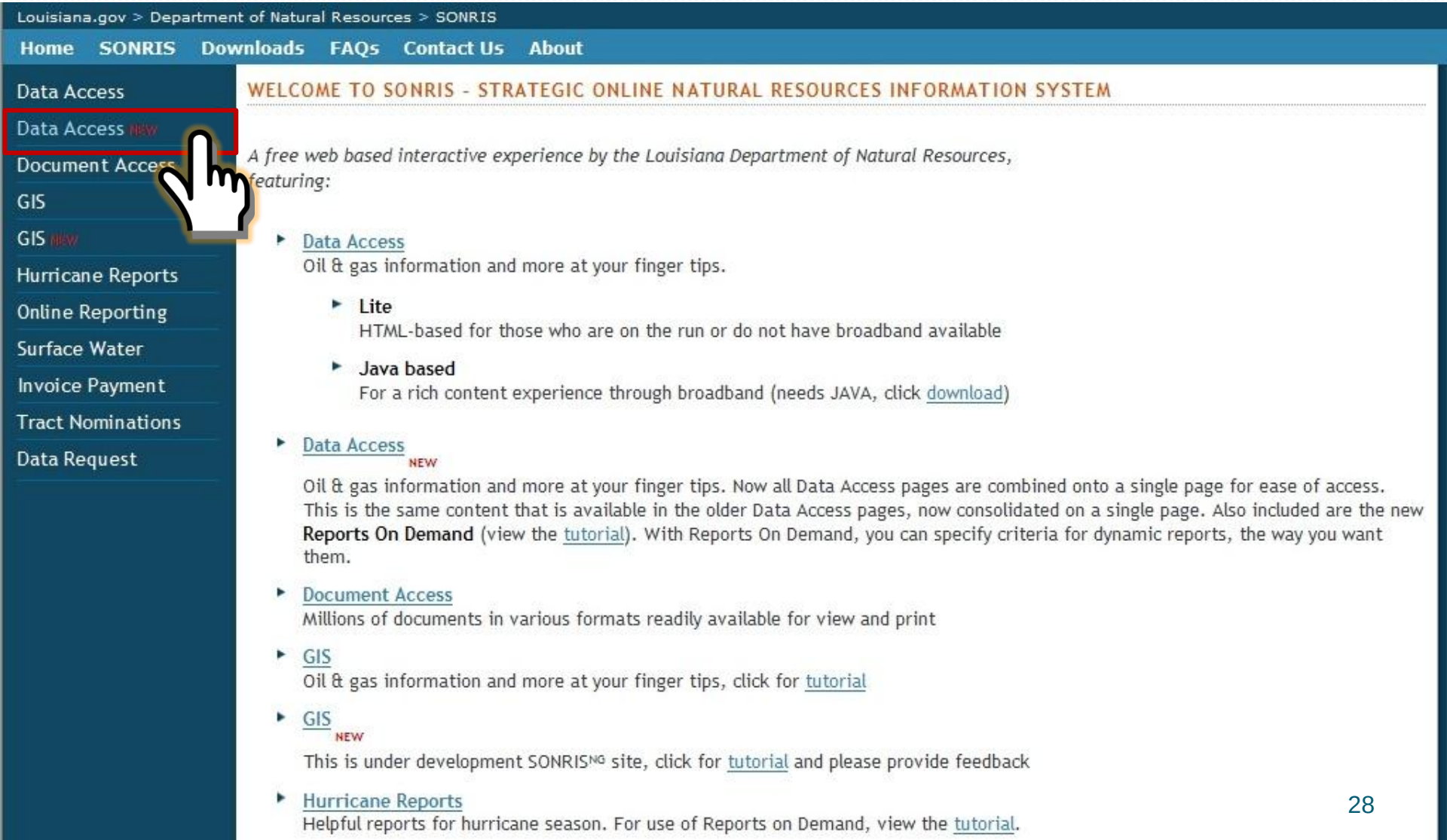
Using the DNR database (SONRIS)

to define the base of the USDW

Identifying the Coordinates of an EXISTING well

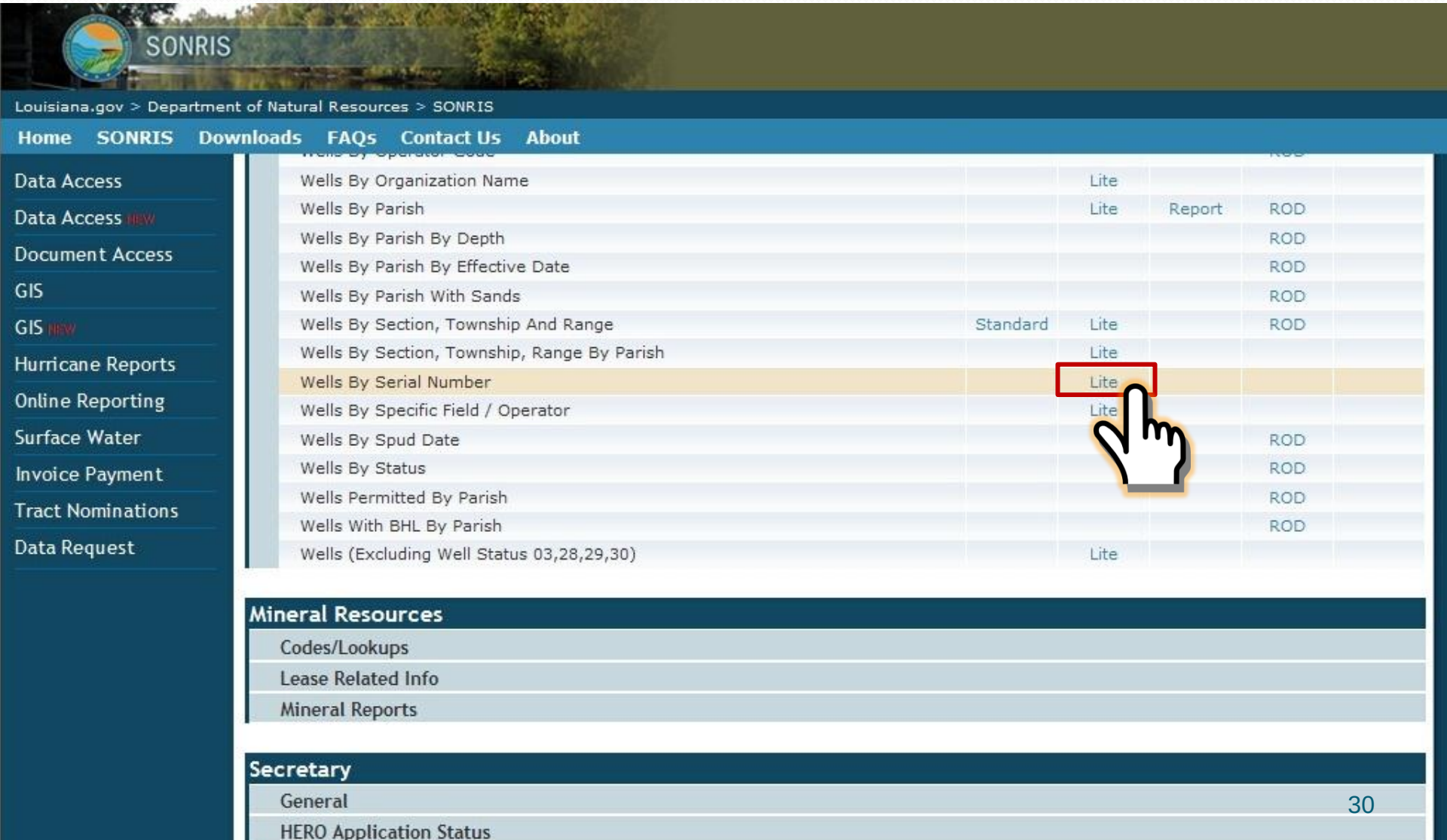
Go to www.dnr.louisiana.gov & click on the SONRIS logo

Select Data Access (NEW) from Left Menu

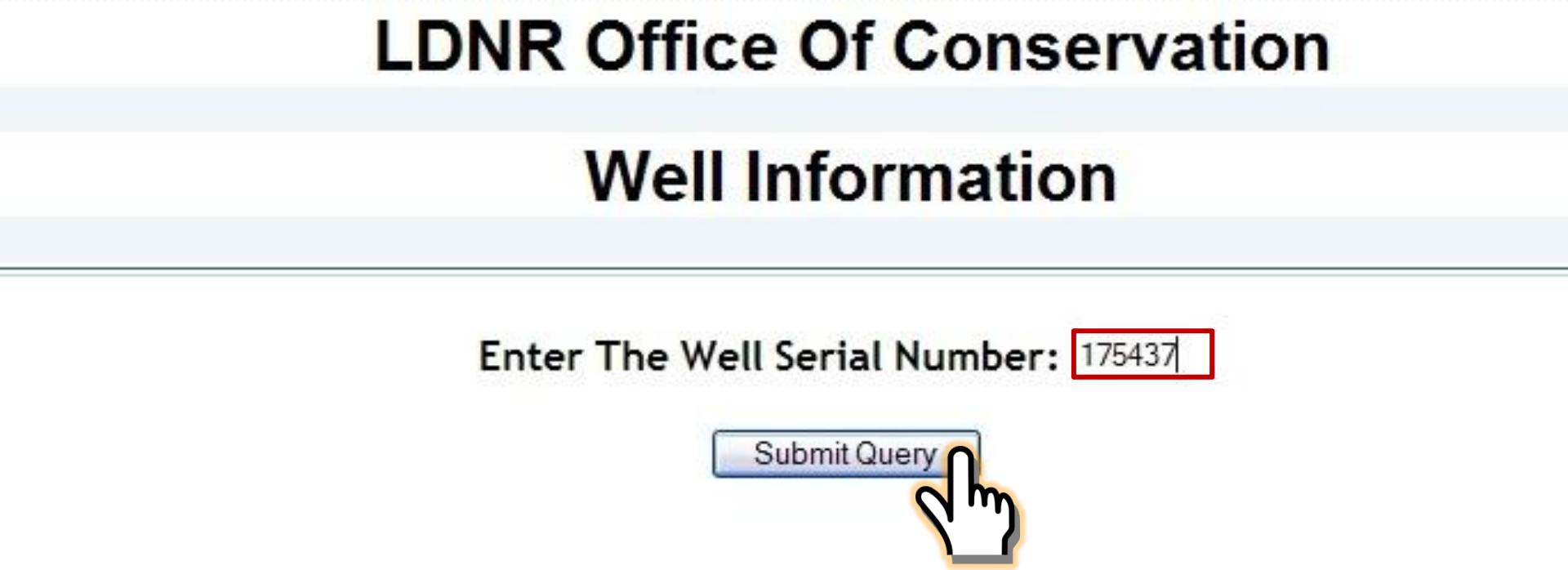


Scroll down to Conservation and select Well Information

Scroll down to Wells by Serial Number and select Lite link



Enter the Serial Number of the well & click Submit Query



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

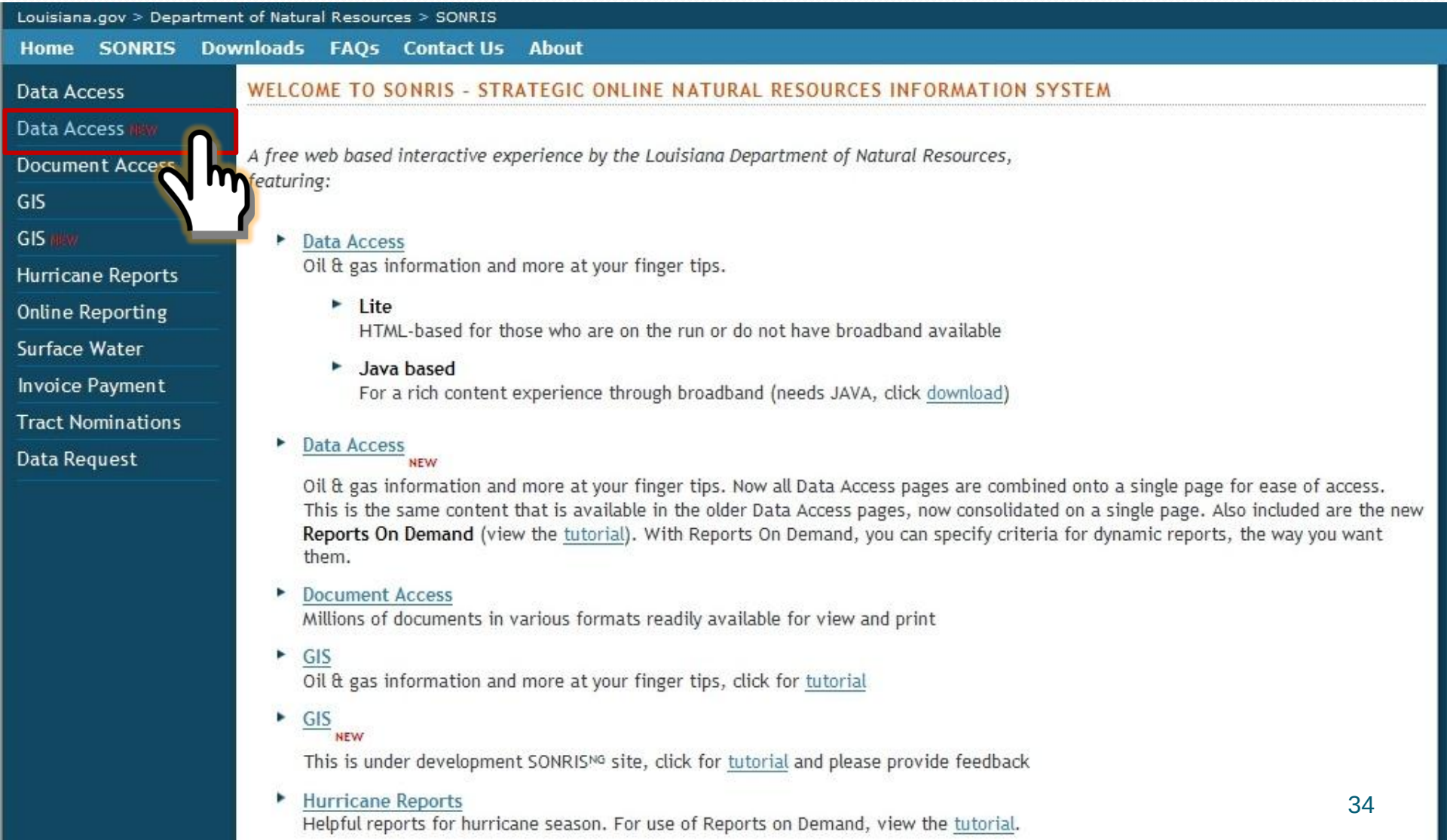
EFFECTIVE DATE	END DATE	PLUGBACK TOTAL DEPTH	TRUE VERTICAL DEPTH	MEASURED DEPTH	LAT DEG	LAT MIN	LAT SEC	LONG DEG	LONG MIN	LONG SEC	COORDINATE SOURCE	LAM
05/01/1981	07/01/1981		0	0							03	0
07/01/1981	04/01/1983		0	3102							03	0

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

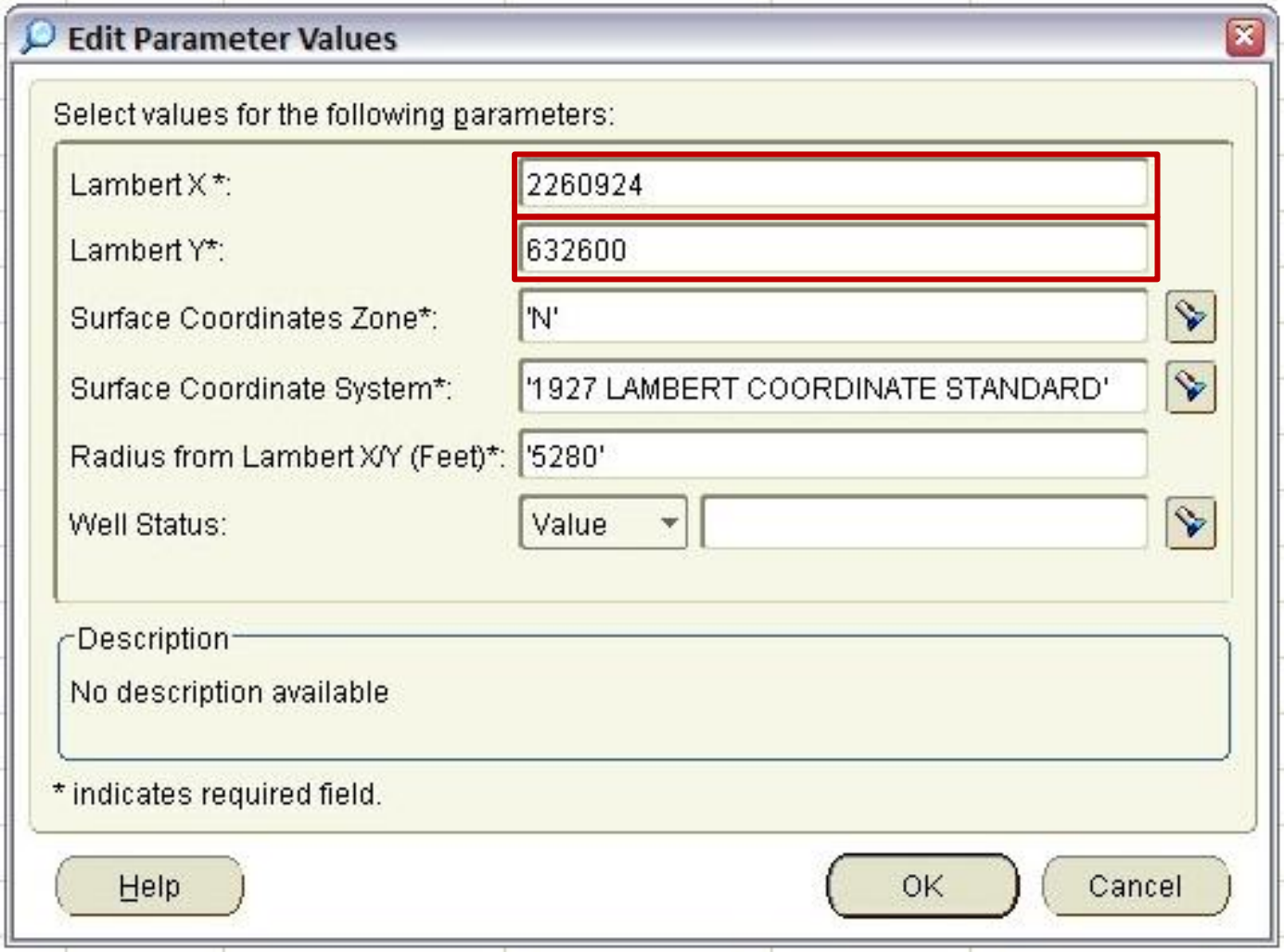
Select Data Access (NEW) from Left Menu



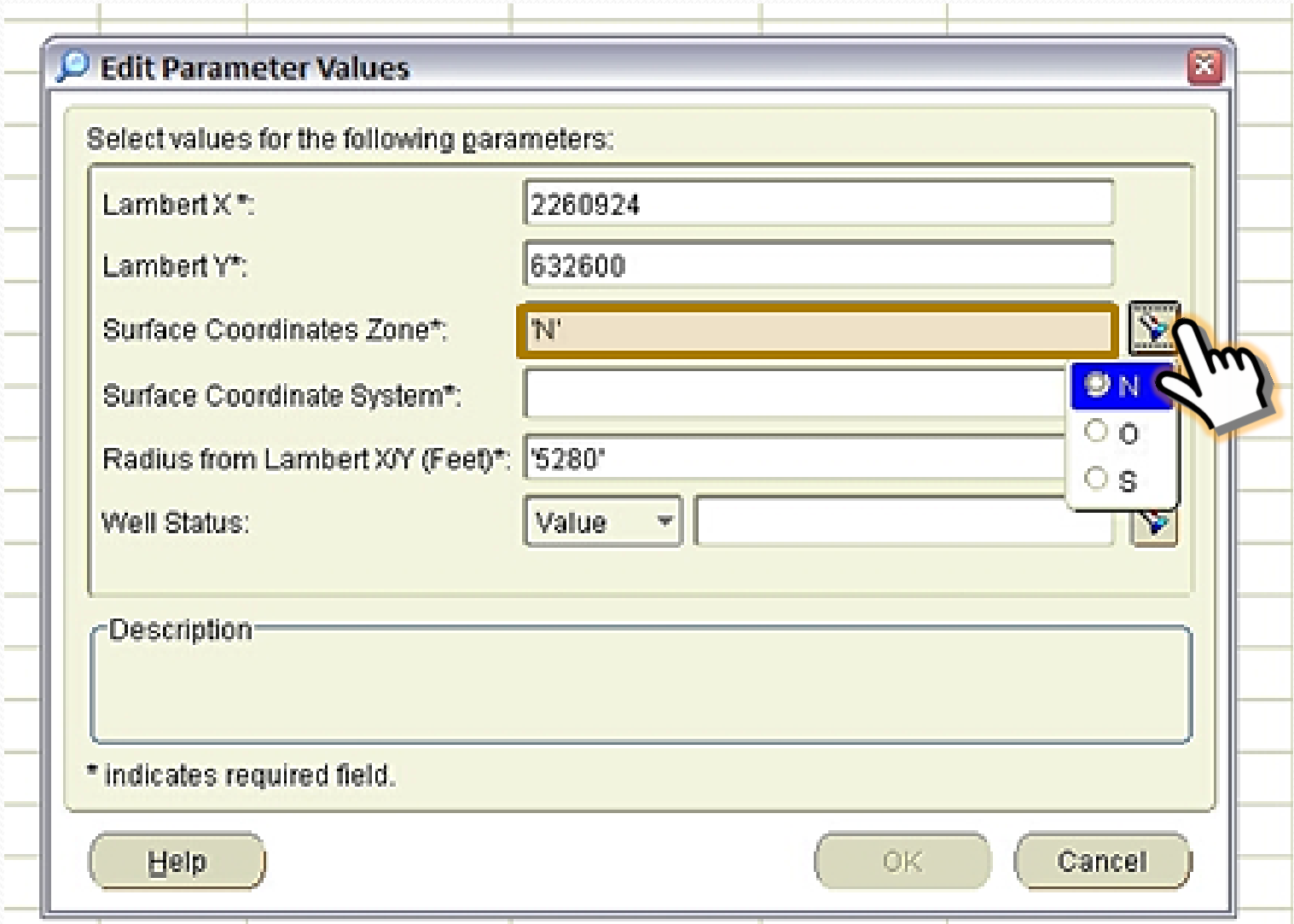
Scroll down to Conservation and select Injection Information

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

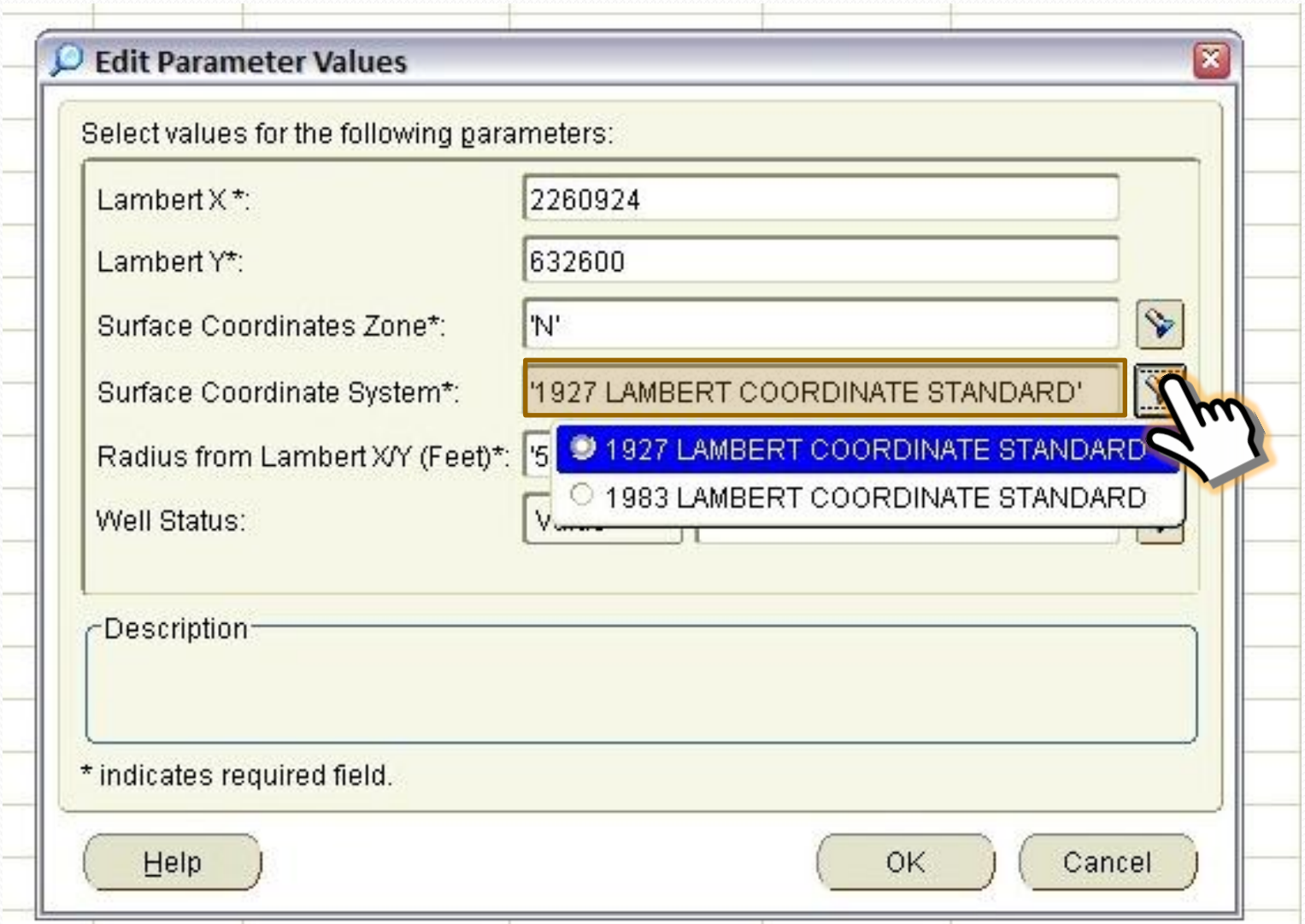
Enter the location's X,Y Coordinates (do not use commas)

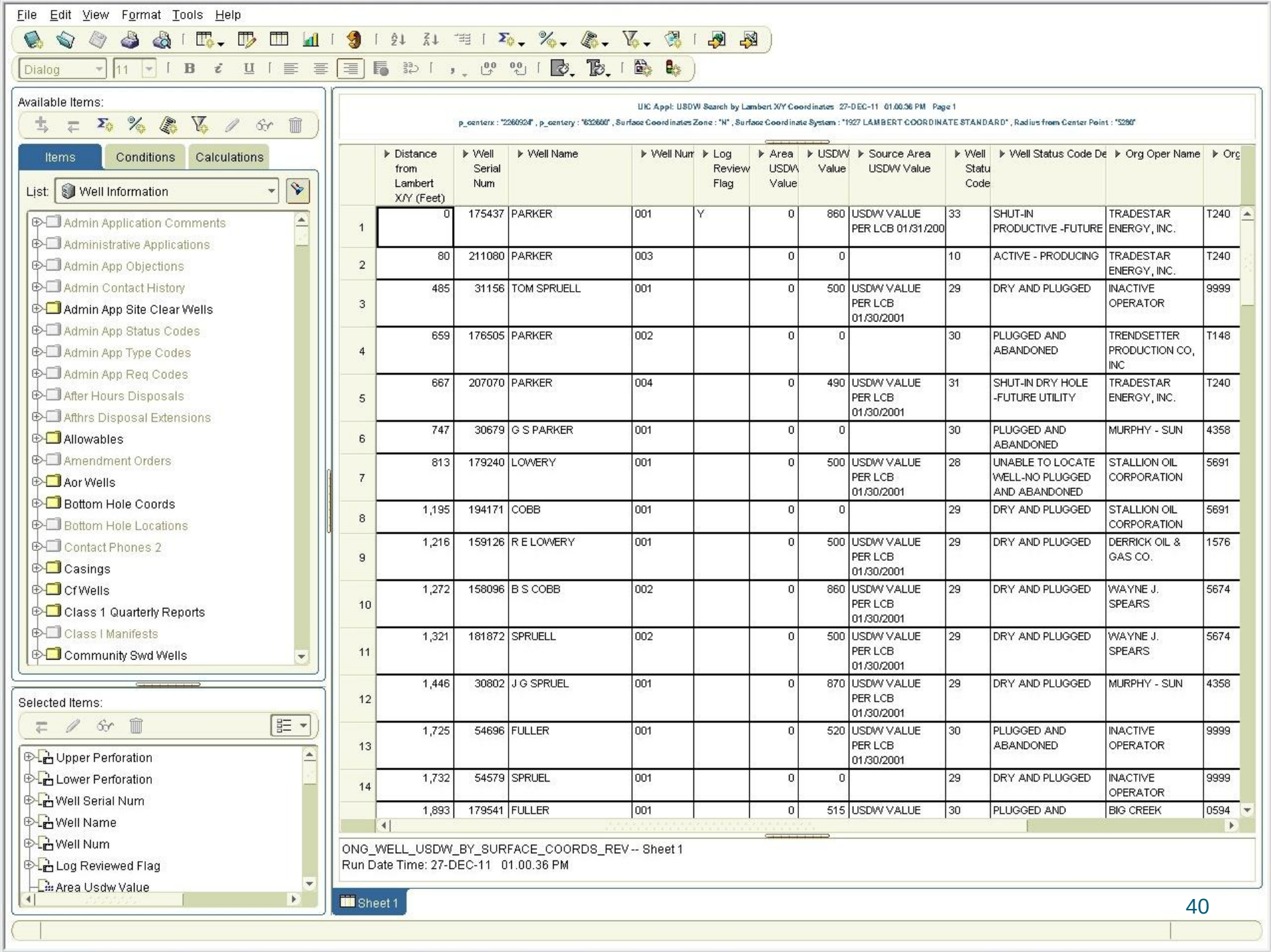


Select the flashlight icon next to the Surface Coordinates Zone field and choose the appropriate Zone- N (North), S (South), O (Offshore)



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





	Distance from Lambert X/Y (Feet)	Well Serial Num	Well Name	Well Num	Log Review Flag	Area USDW Value	USDW Value	Source Area USDW Value	Well Statu 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	176505	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

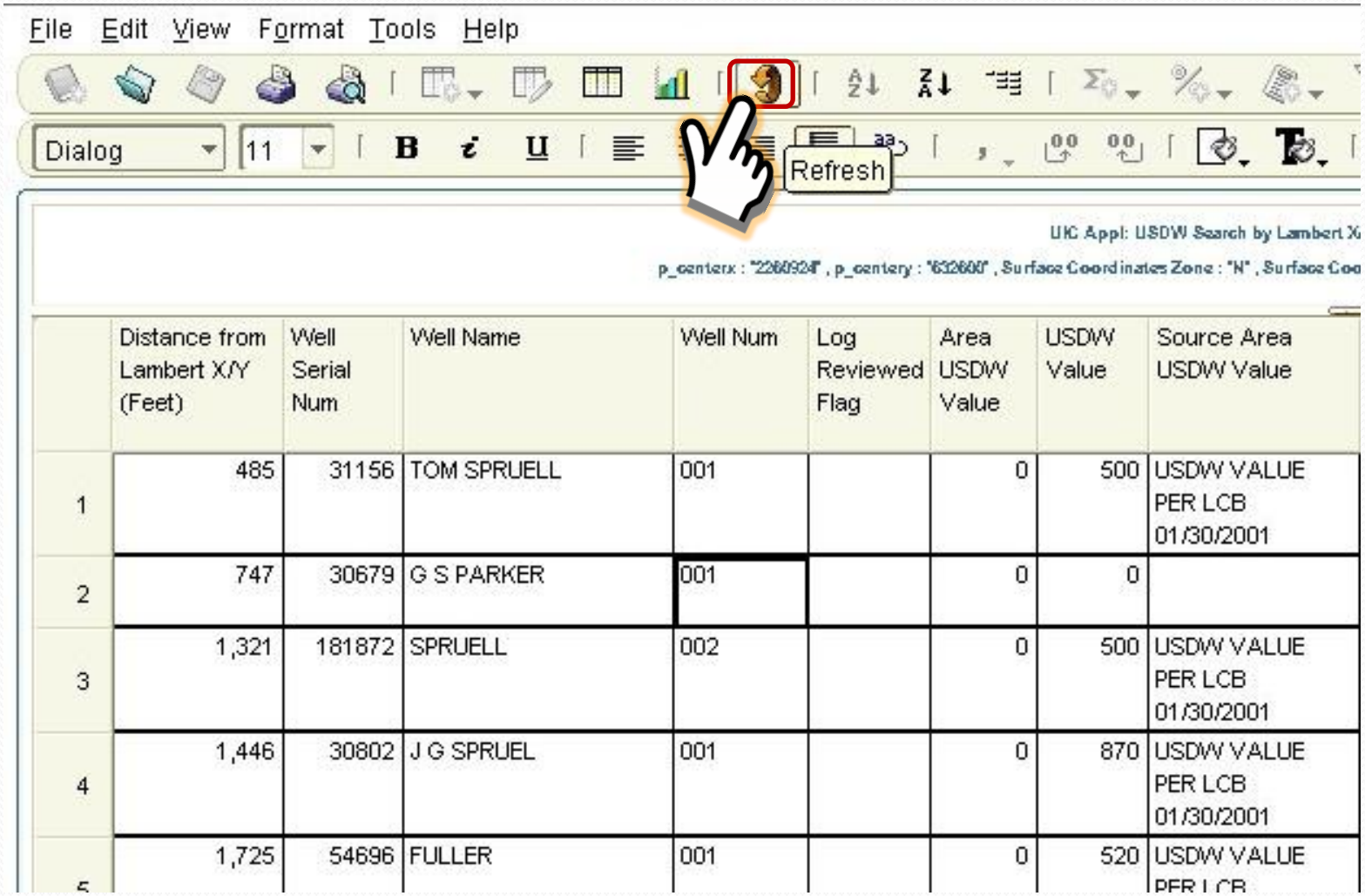
Modifying the Search Criteria

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.

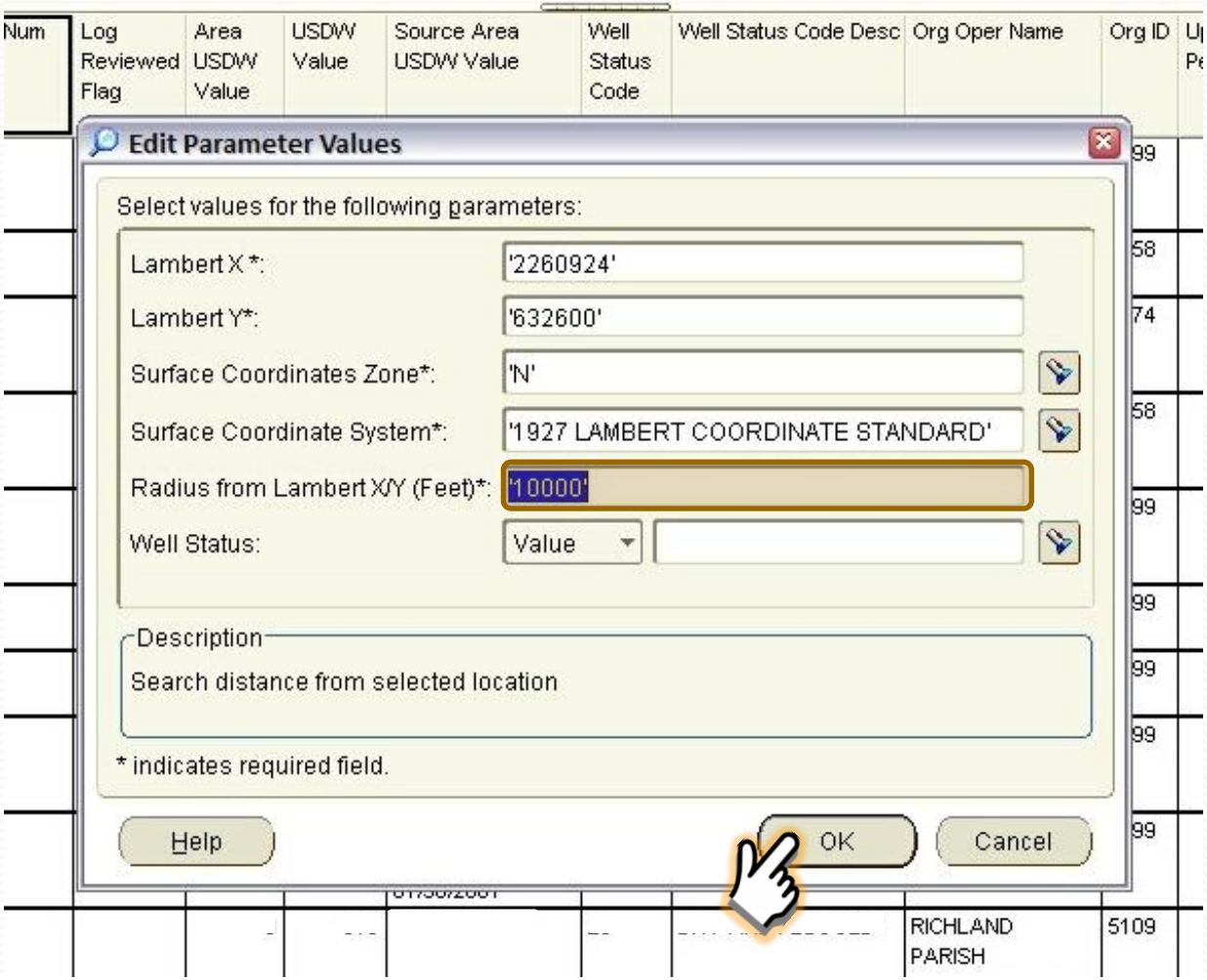


UIC Appl: USDW Search by Lambert X

p_centerx : "2260924" , p_centery : "632600" , Surface Coordinates Zone : "N" , Surface Coo

	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

Increase the distance in the Radius (ft) field and select the OK button.

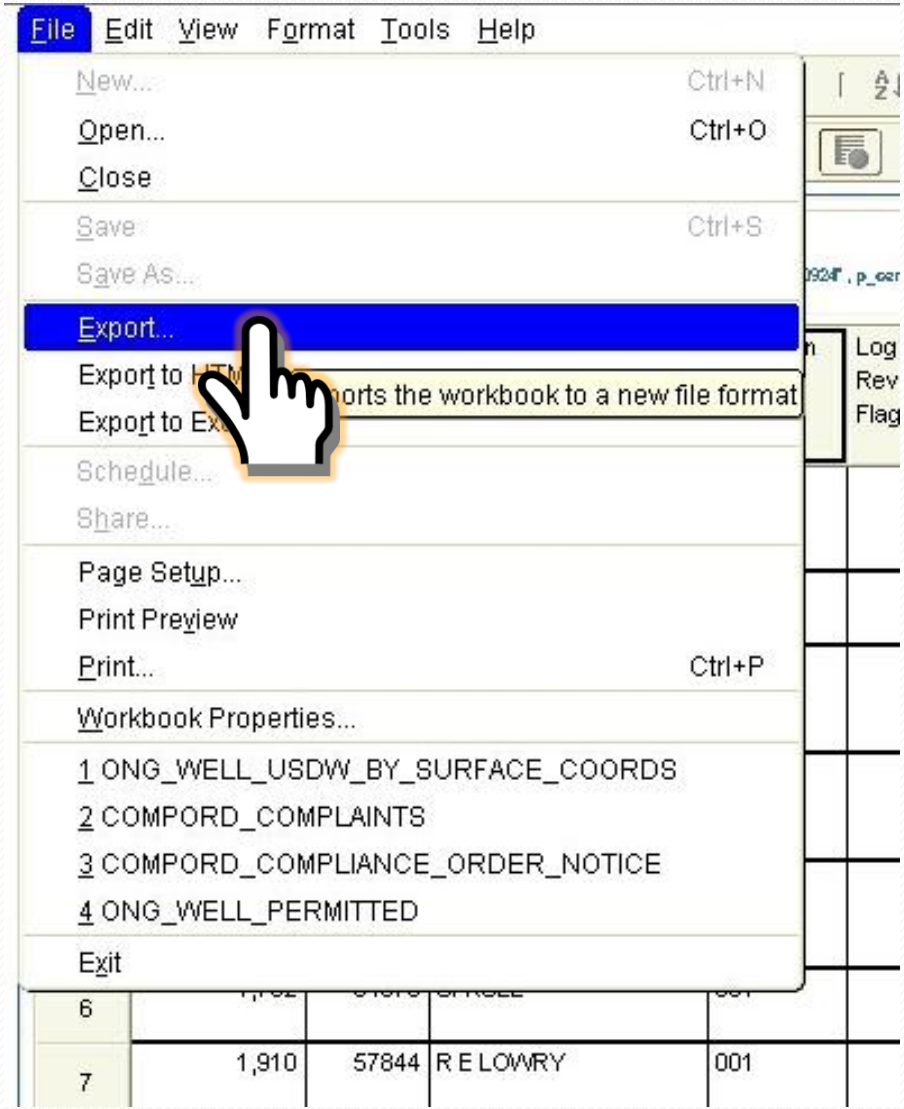


If a well with an electric log cannot be identified within 2 MILES of the proposed location, please contact IMD.

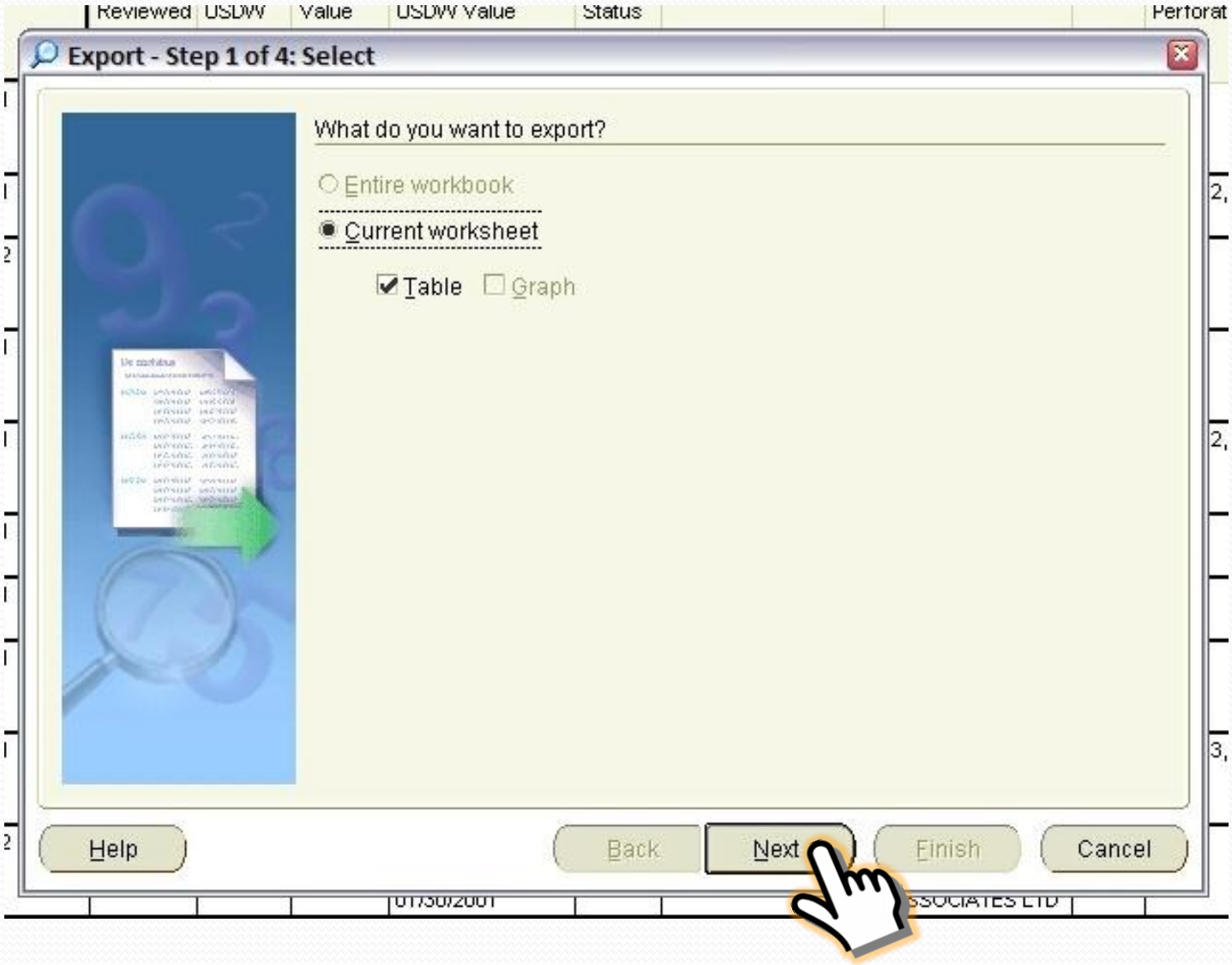
USDW Search

Exporting Spreadsheet to EXCEL

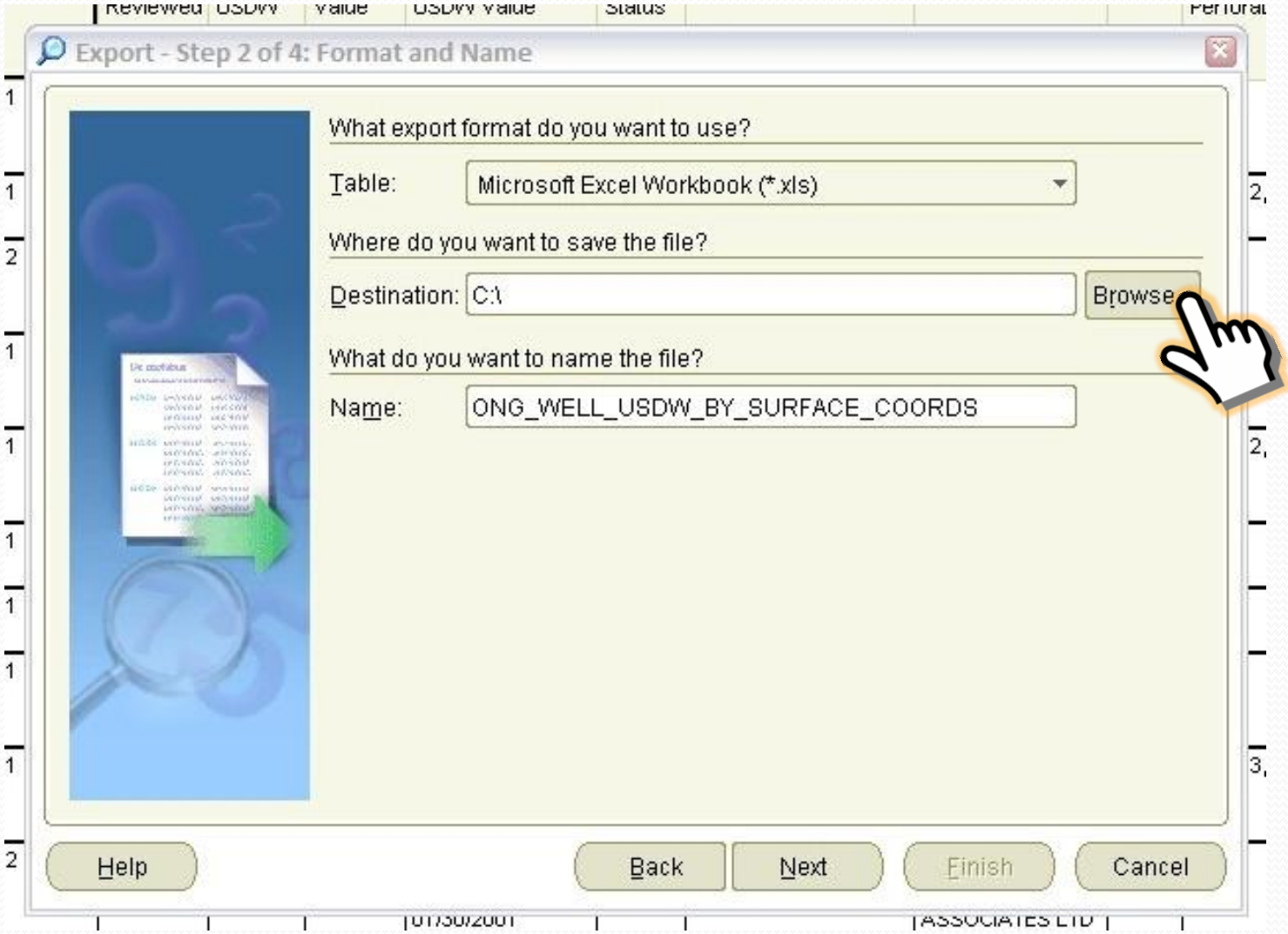
Select File from the Menu bar & Select Export from the dropdown menu



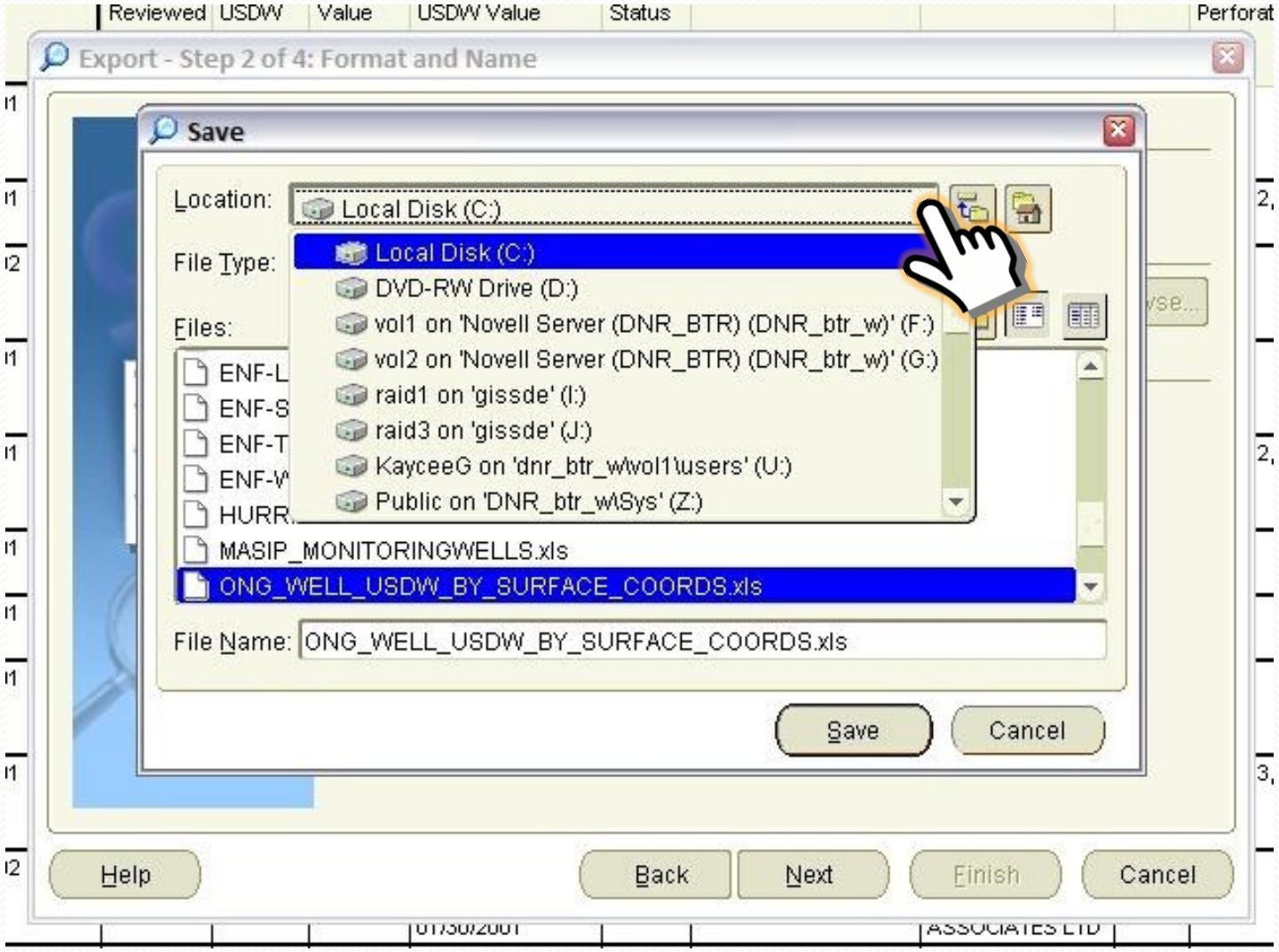
Click on the Next button



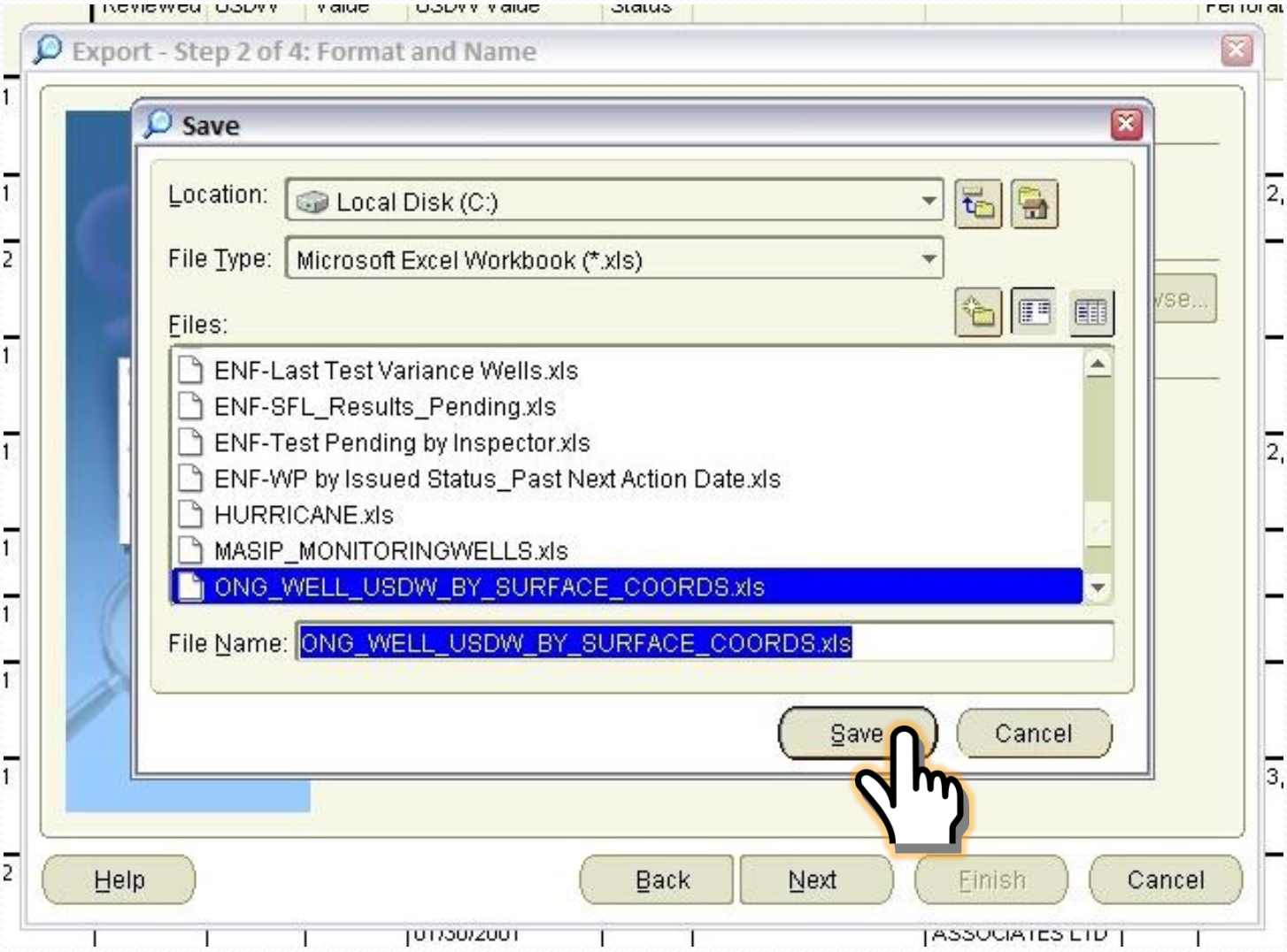
Click on the Browse button to select the location where you want to save the spreadsheet



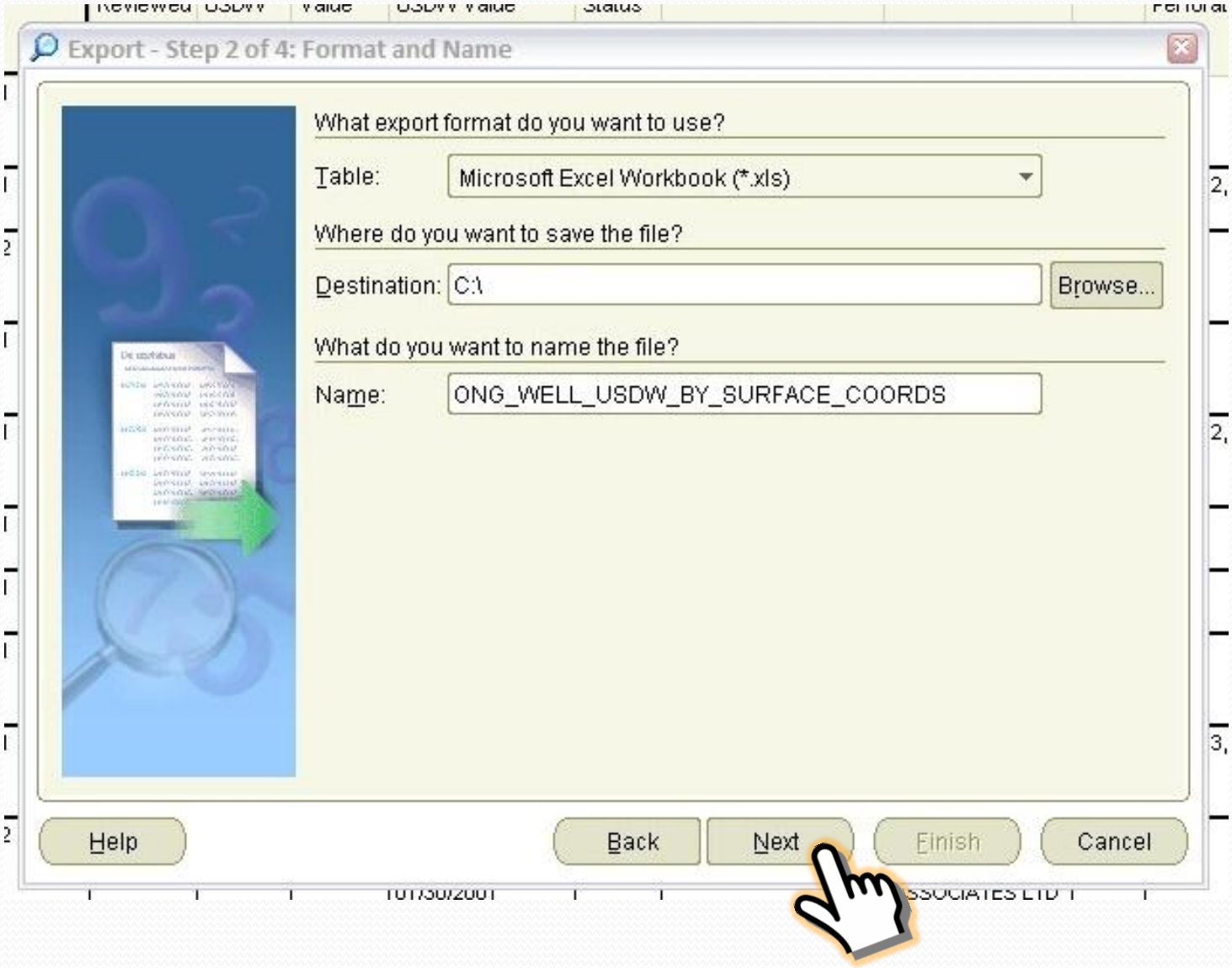
Click on the Location dropdown menu and select the appropriate drive



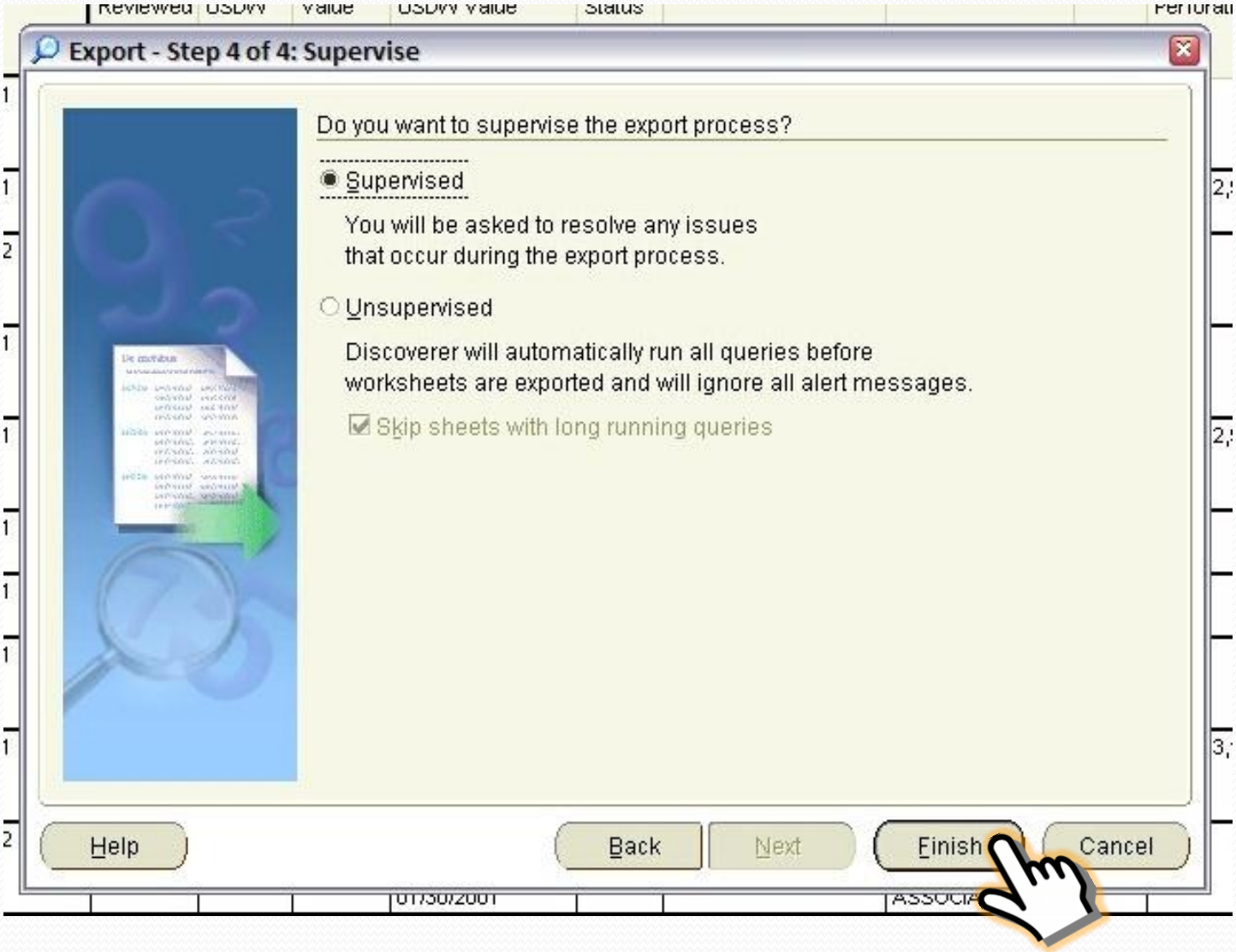
Enter a File Name that is easily identifiable, and click on the Save button.



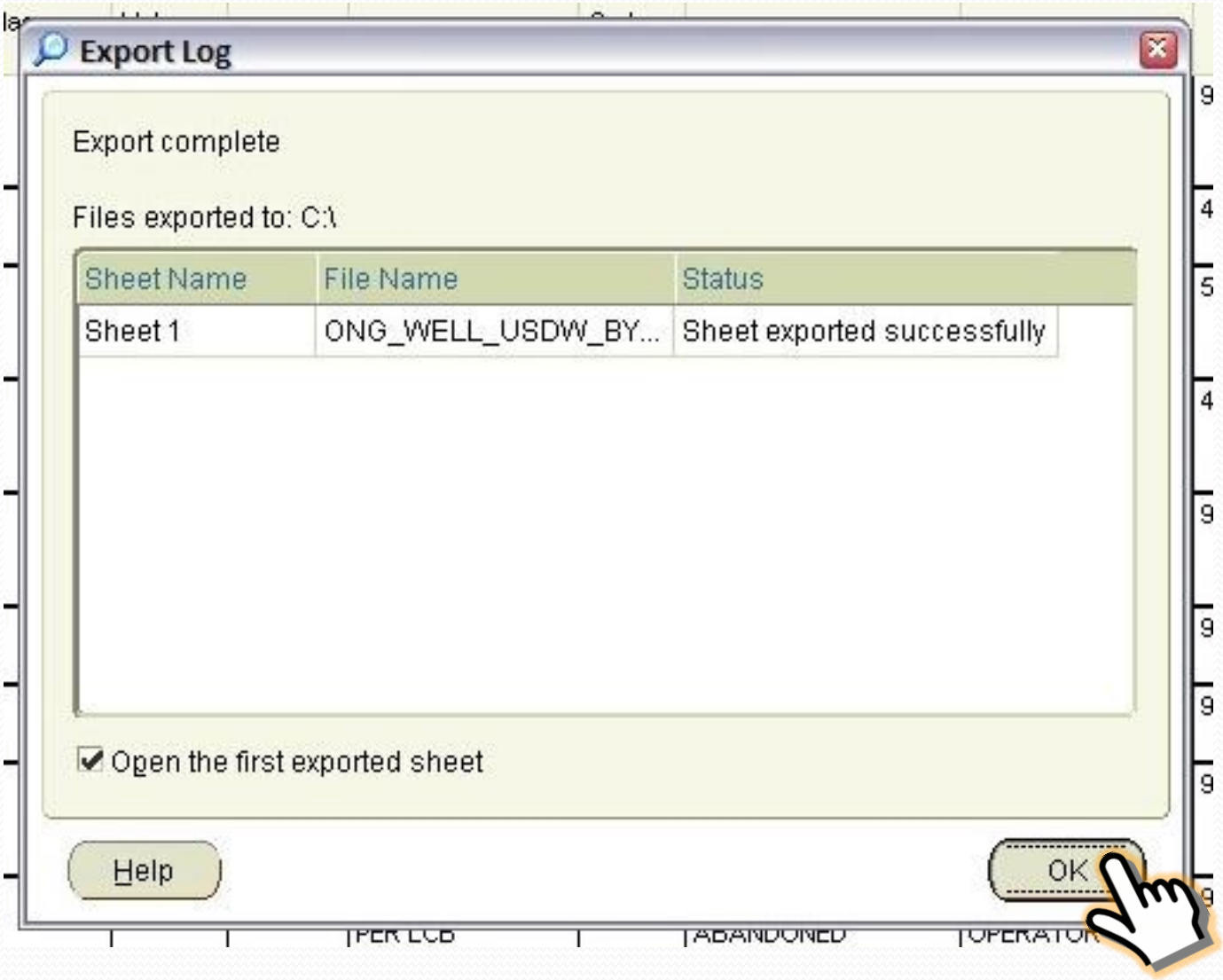
Click on the Next button.

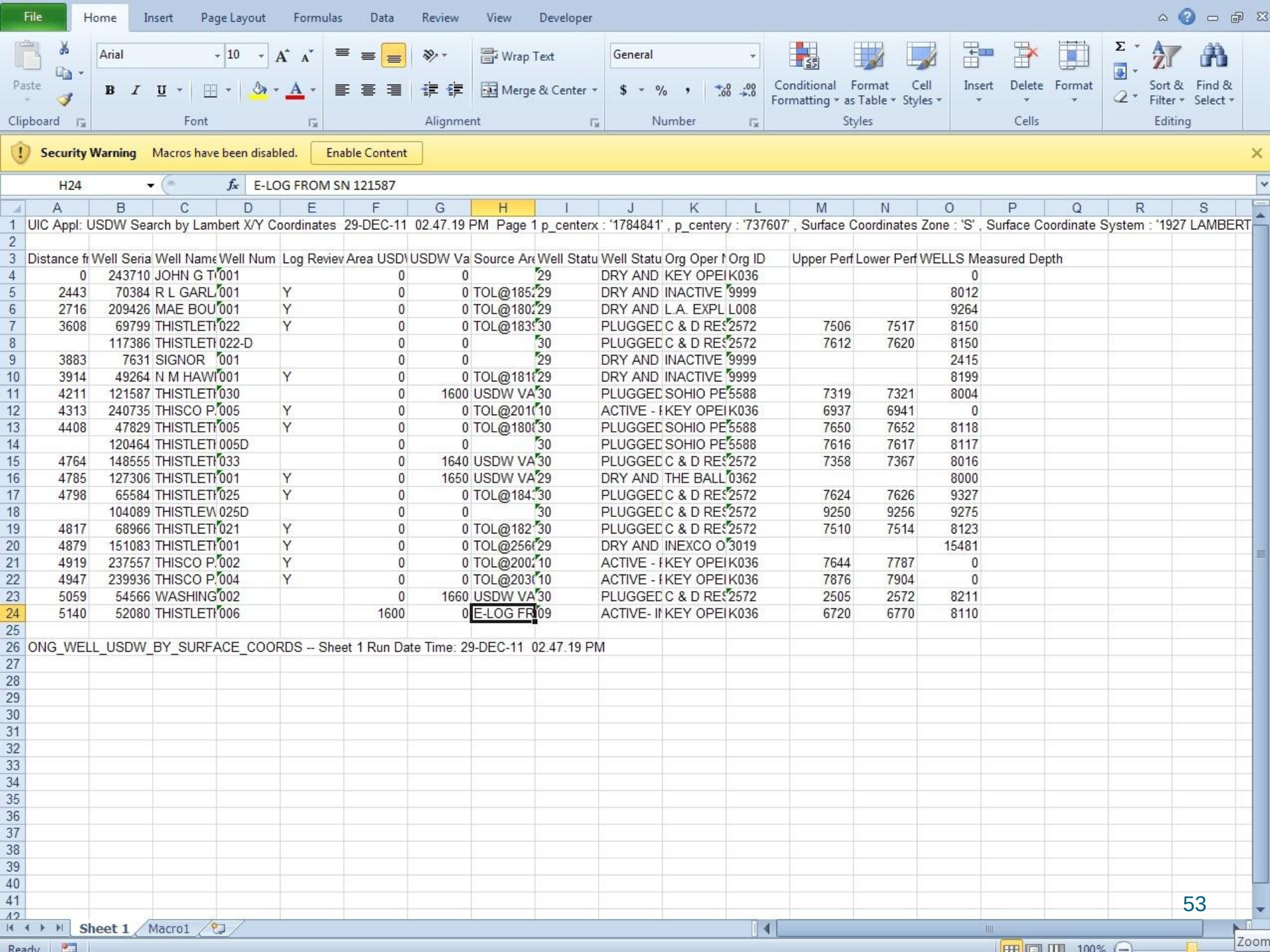


Click on the Finish button.



The Export is Complete. Select the OK button





File Home Insert Page Layout Formulas Data Review View Developer

Arial 10 Wrap Text General Conditional Formatting Format as Table Cell Styles Insert Delete Format Sort & Filter Find & Select

Clipboard Font Alignment Number Styles Cells Editing

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																		
2																			
3	Distance fr	Well Seria	Well Name	Well Num	Log Reviev	Area USDV	USDW Va	Source Are	Well Statu	Well Statu	Org Oper N	Org ID	Upper Perf	Lower Perf	WELLS Measured Depth				
4	0	243710	JOHN G T	001		0	0		29	DRY AND	KEY OPEI	K036			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	THISTLETI	022	Y	0	0	TOL@183	30	PLUGGED	C & D RES	2572	7506	7517	8150				
8		117386	THISTLETI	022-D		0	0		30	PLUGGED	C & D RES	2572	7612	7620	8150				
9	3883	7631	SIGNOR	001		0	0		29	DRY AND	INACTIVE	9999			2415				
10	3914	49264	N M HAWI	001	Y	0	0	TOL@181	29	DRY AND	INACTIVE	9999			8199				
11	4211	121587	THISTLETI	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 OPEI	K036	6937	6941	0				
13	4408	47829	THISTLETI	005	Y	0	0	TOL@180	30	PLUGGED	SOHIO PE	5588	7650	7652	8118				
14		120464	THISTLETI	005D		0	0		30	PLUGGED	SOHIO PE	5588	7616	7617	8117				
15	4764	148555	THISTLETI	033		0	1640	USDW VA	30	PLUGGED	C & D RES	2572	7358	7367	8016				
16	4785	127306	THISTLETI	001	Y	0	1650	USDW VA	29	DRY AND	THE BALL	0362			8000				
17	4798	65584	THISTLETI	025	Y	0	0	TOL@184	30	PLUGGED	C & D RES	2572	7624	7626	9327				
18		104089	THISTLEW	025D		0	0		30	PLUGGED	C & D RES	2572	9250	9256	9275				
19	4817	68966	THISTLETI	021	Y	0	0	TOL@182	30	PLUGGED	C & D RES	2572	7510	7514	8123				
20	4879	151083	THISTLETI	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 OPEI	K036	7644	7787	0				
22	4947	239936	THISCO P.	004	Y	0	0	TOL@203	10	ACTIVE - I	KEY OPEI	K036	7876	7904	0				
23	5059	54566	WASHING	002		0	1660	USDW VA	30	PLUGGED	C & D RES	2572	2505	2572	8211				
24	5140	52080	THISTLETI	006		1600	0	E-LOG FR	09	ACTIVE- I	KEY OPEI	K036	6720	6770	8110				
25																			
26	ONG_WELL_USDW_BY_SURFACE_COORDS -- Sheet 1 Run Date Time: 29-DEC-11 02.47.19 PM																		

Sheet 1 Macro1

Ready 100% Zoom

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
1	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	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								

	A	B	C	D	E	F	G	H
1	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	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								

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

- **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
1	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	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								

- **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
1	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	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								

- **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
1	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	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								

- **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
1	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	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	FROM ELOG OF SN 121587 (~939' AWAY) PER H BORDEN 11/13/2008
23								

- **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
1	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	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								

- **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
1	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	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								

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

- **Source Area USDW Value Column**

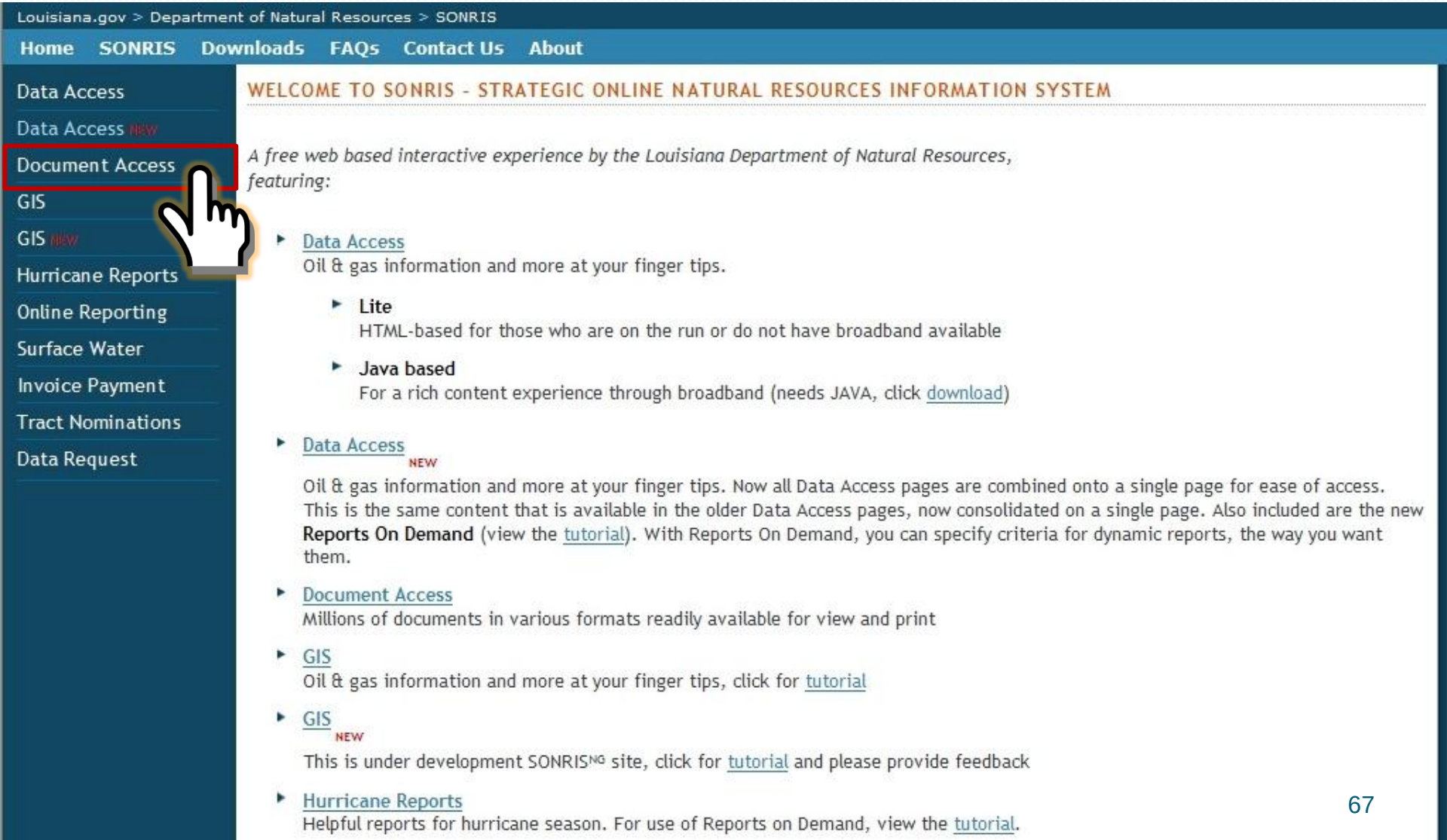
  If the USDW Value field contains a value and the Source Area USDW Value field is blank, then it indicates that the USDW Value was determined from an electric log of the well, but it has not been recently confirmed by current standards. The e-log of the well will need to be reviewed.

  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.

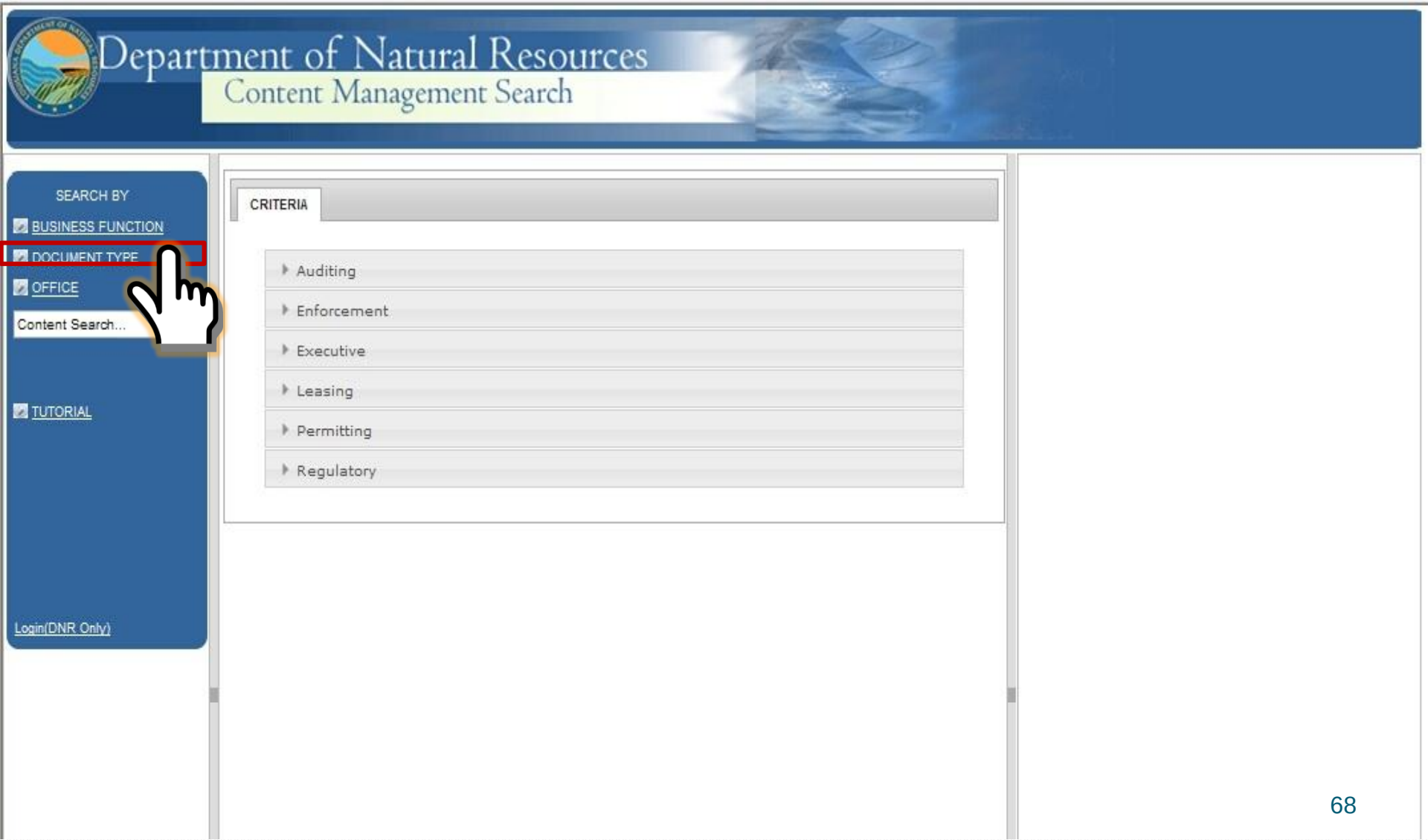
Electric Log Search

Go to www.dnr.louisiana.gov & click on the SONRIS logo

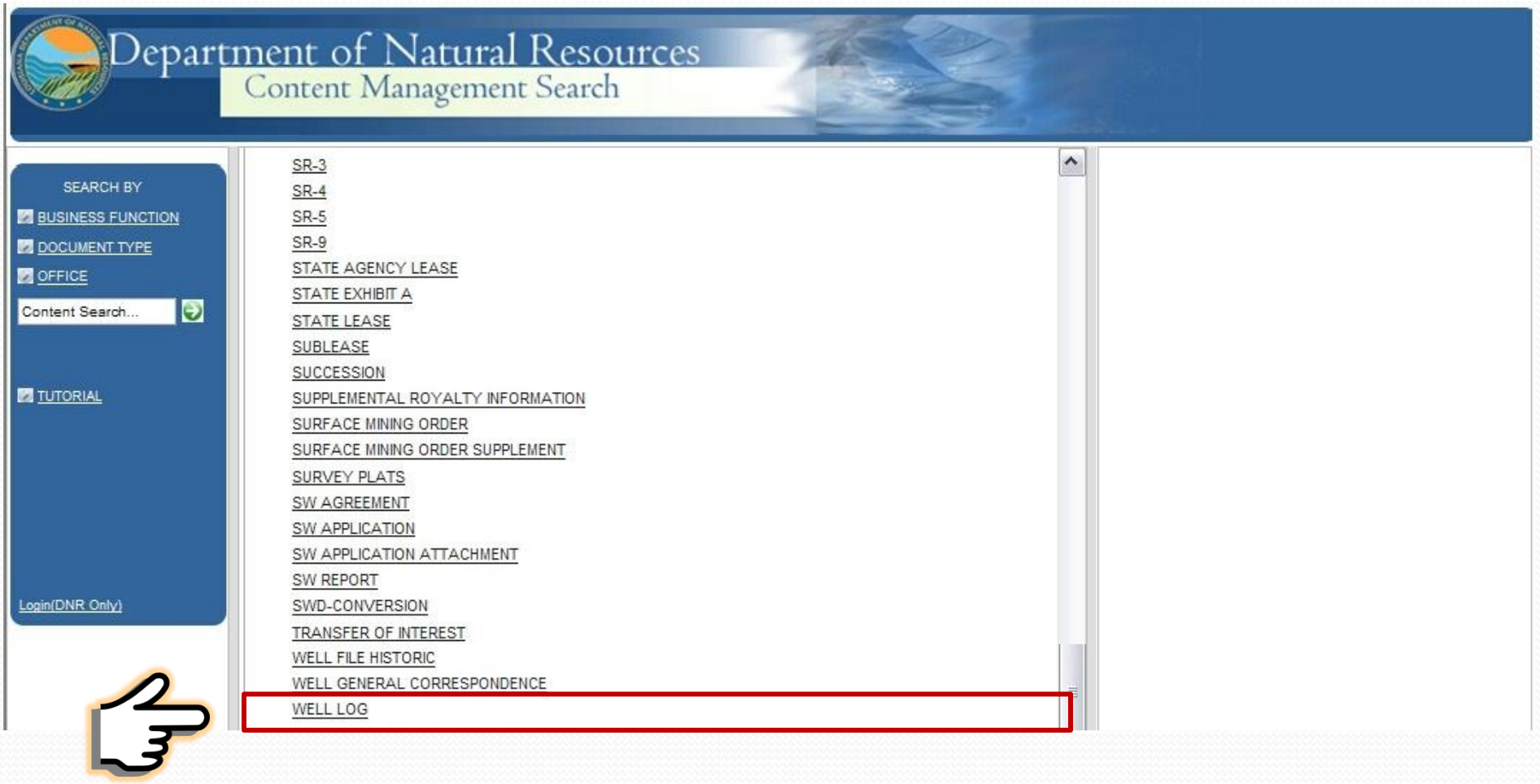
Select Document Access from Left Menu



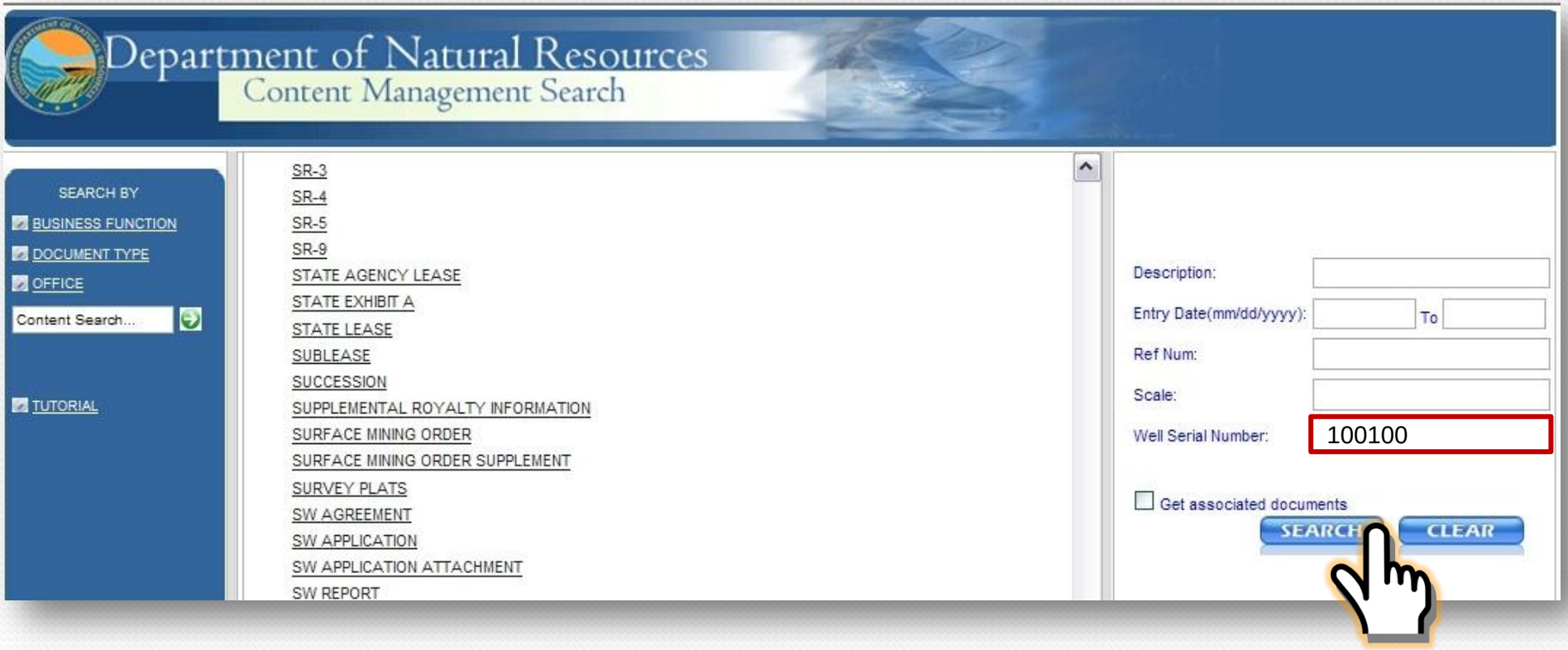
Select Document Type from Left Menu



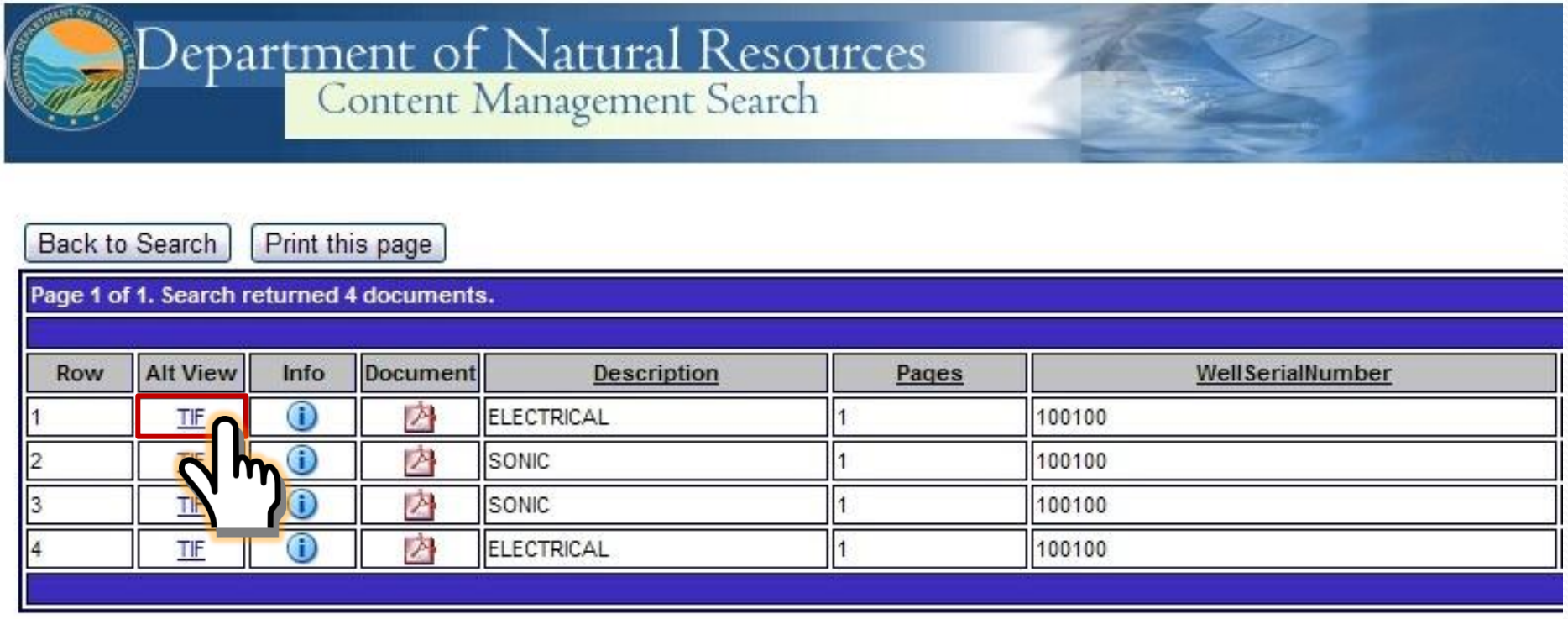
Scroll down and select Well Log



Enter the Well Serial Number in the field to the right and select the Search button



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

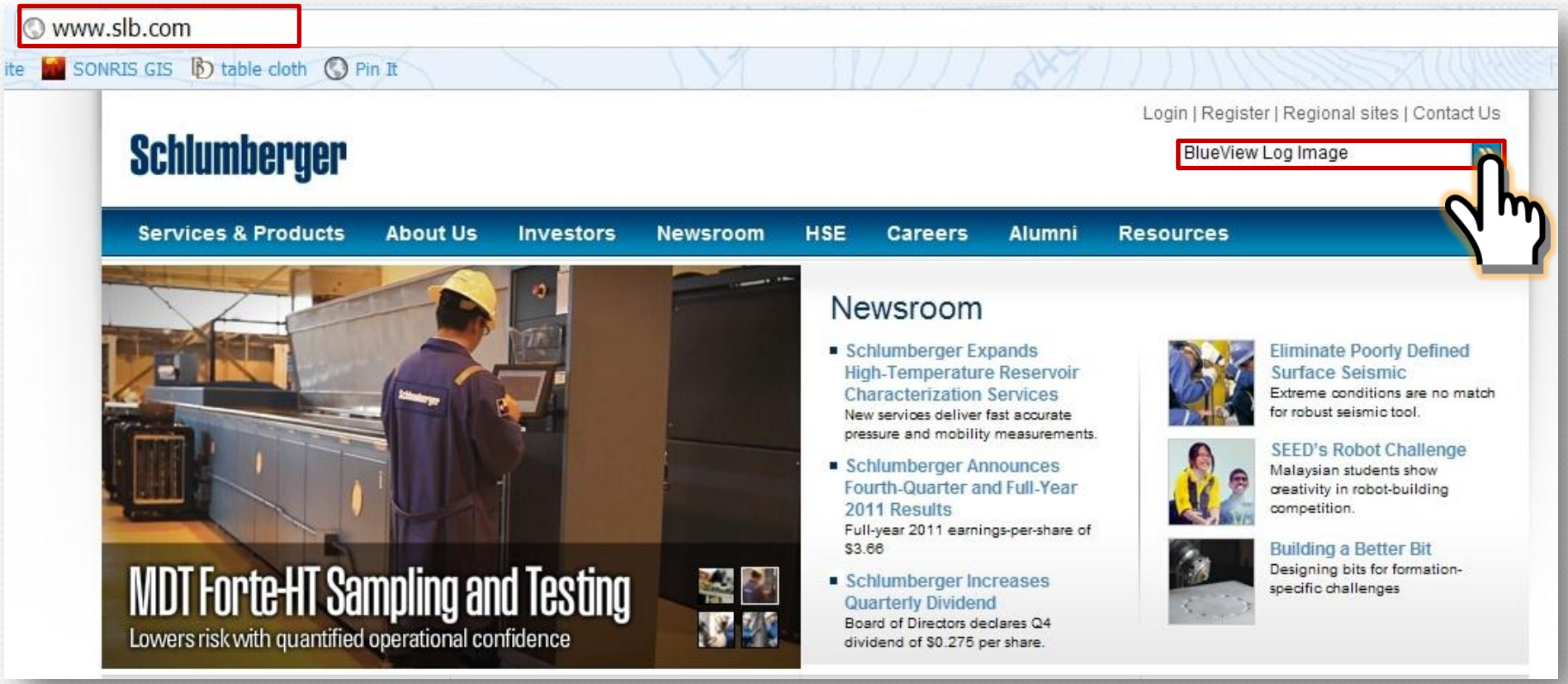


Viewing and Printing Electric Logs

Download a Log Viewing Software

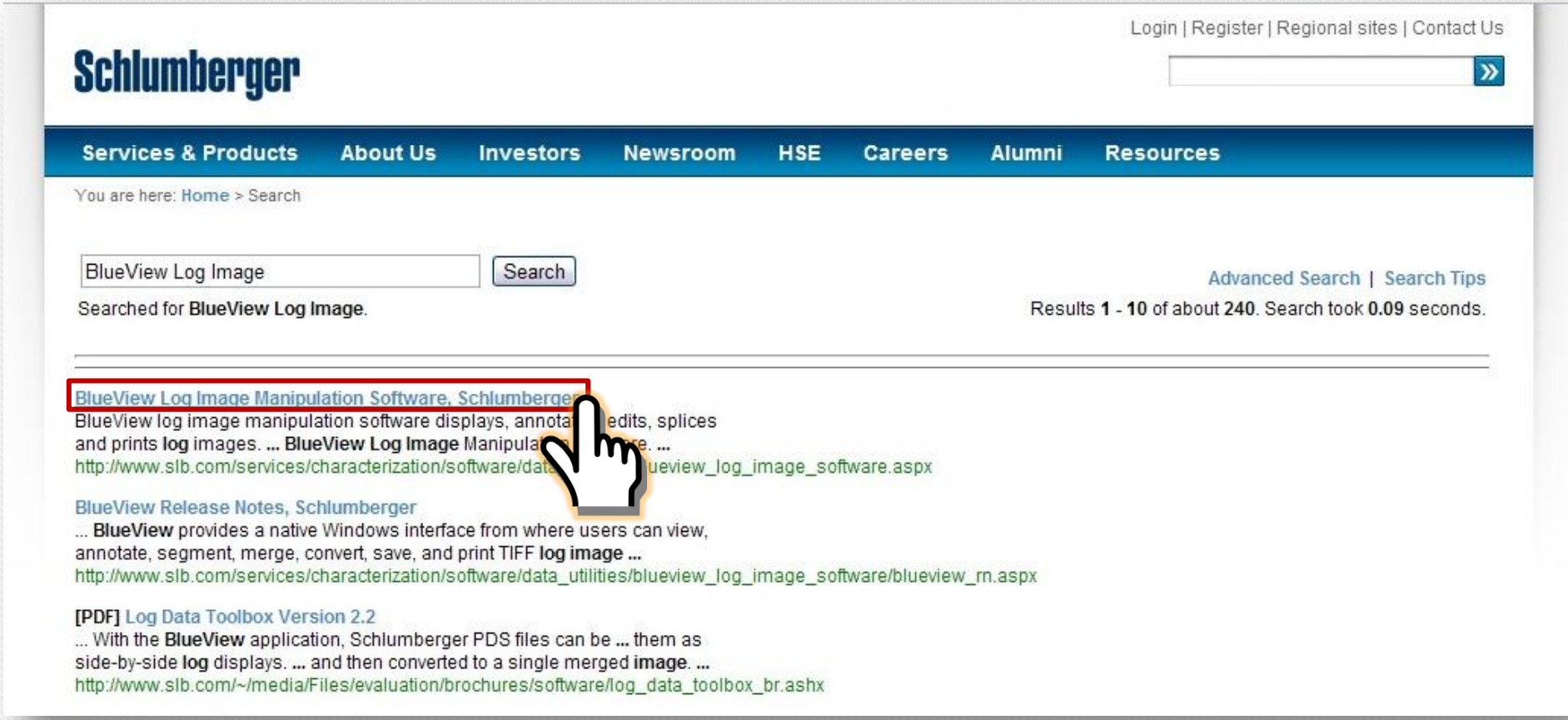
Example provided is Blueview by Schlumberger

Go to www.slb.com and enter BlueView Log Image in the search field at the top of the page

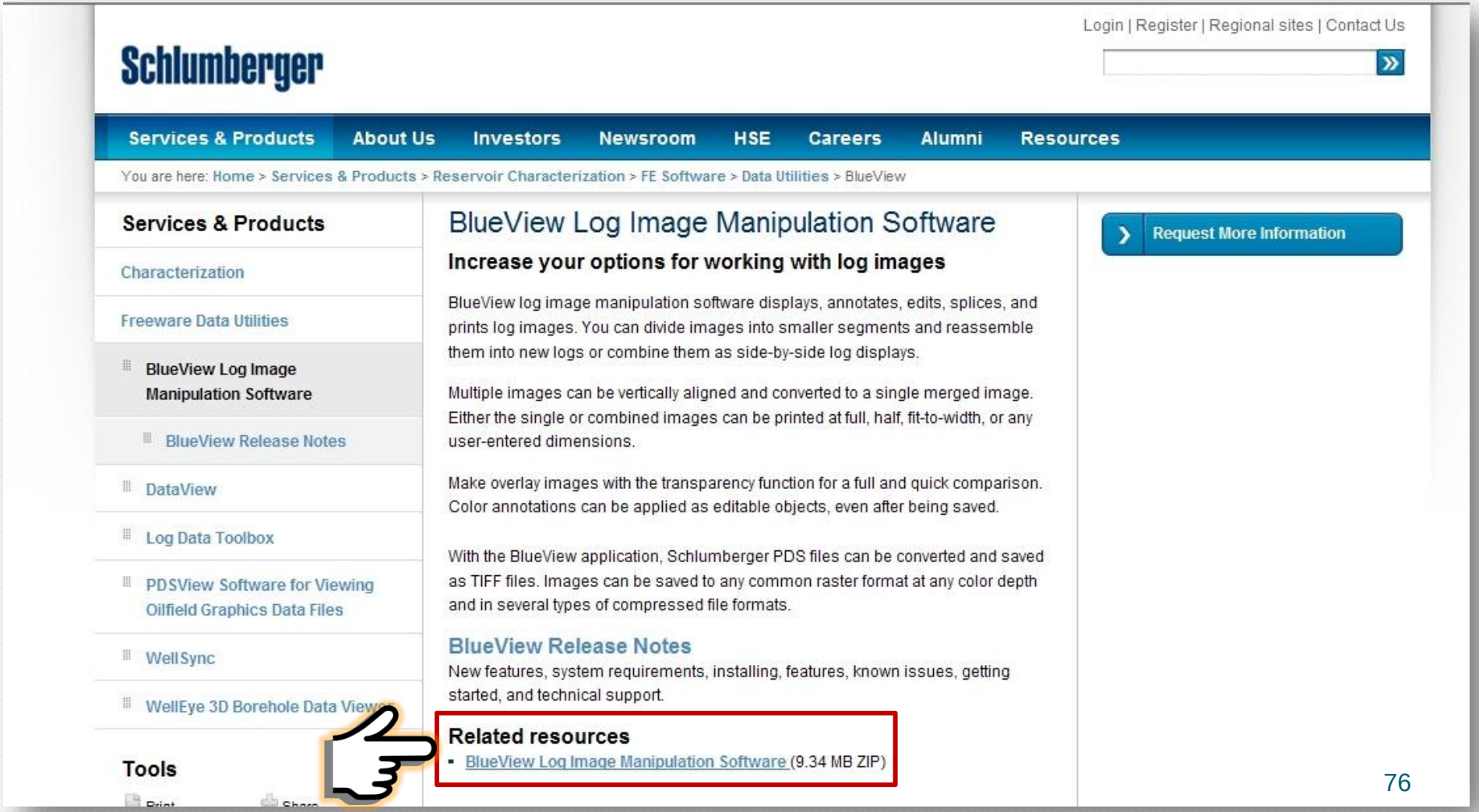


Select the first result

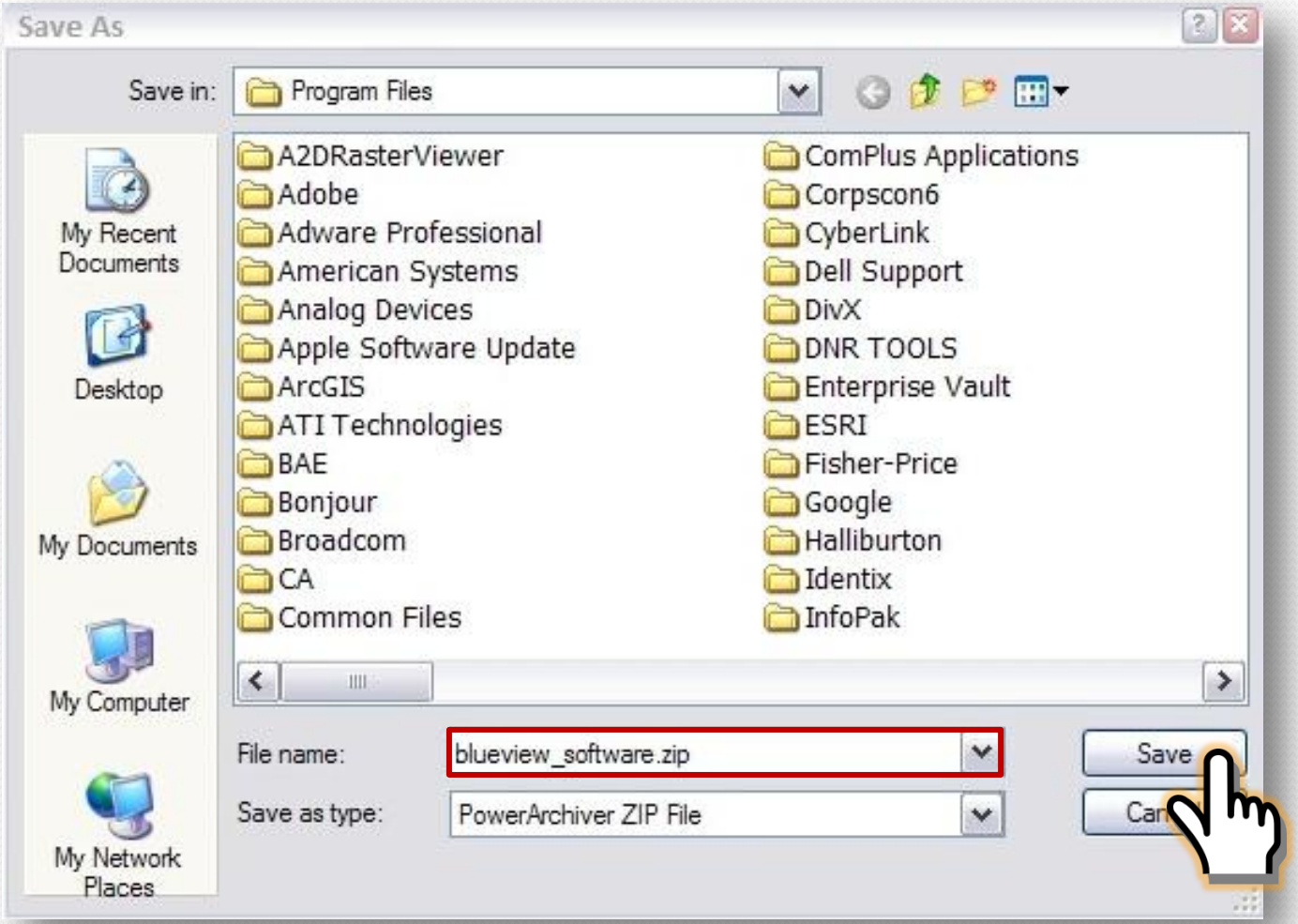
BlueView Log Image Manipulation Software, Schlumberger



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



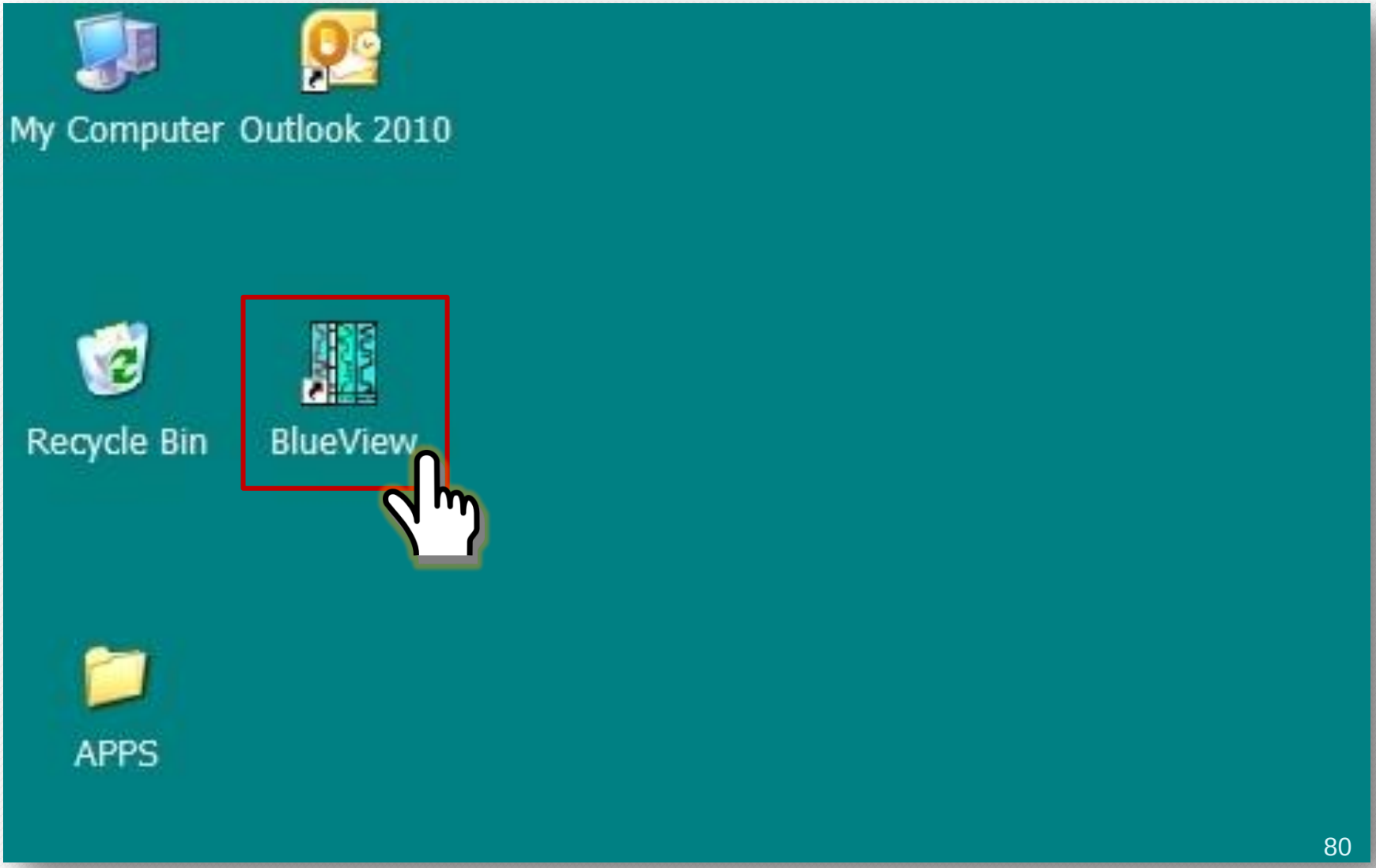
Save the blueview_software.zip file to your computer



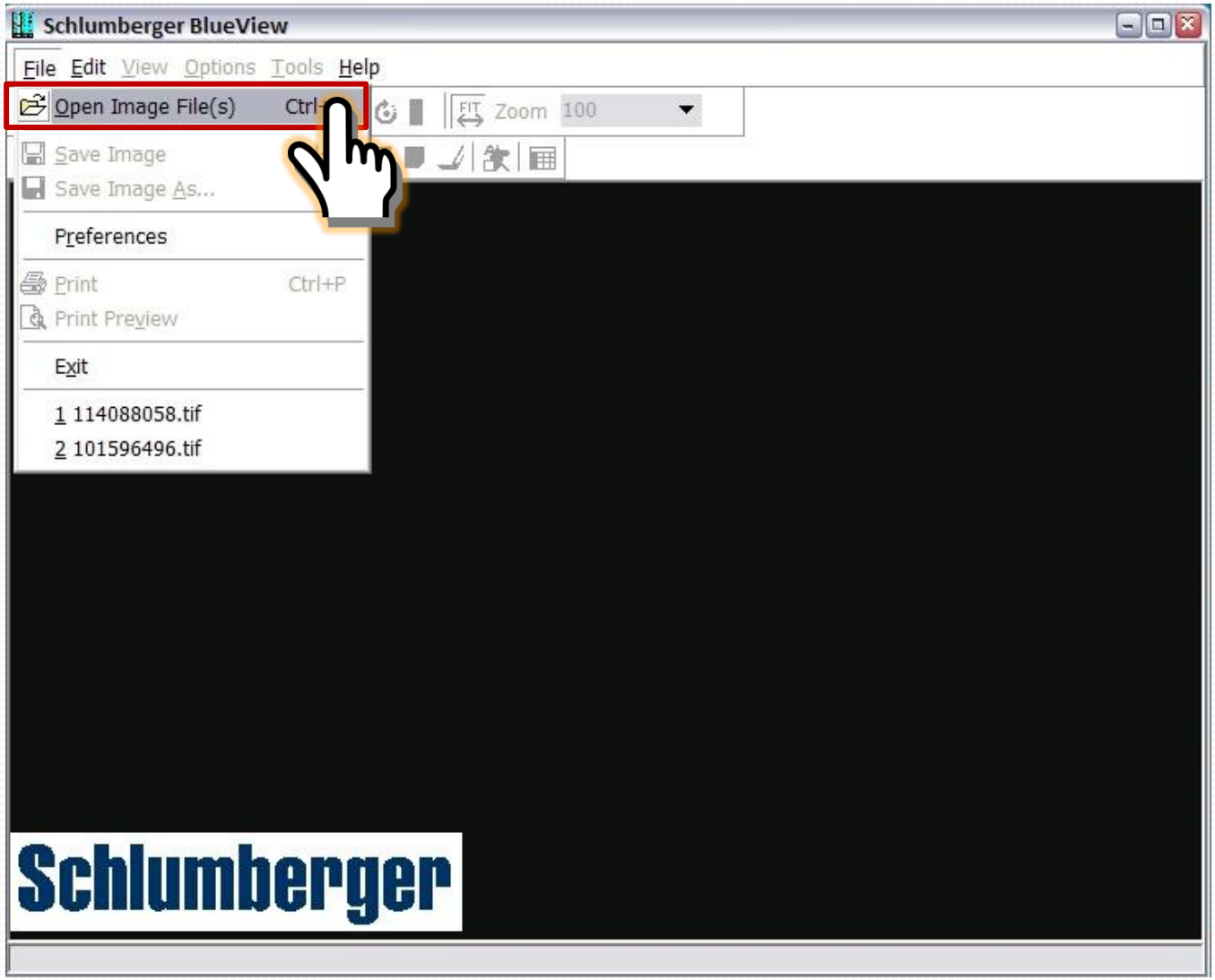
Double click on the executable file and follow the download instructions to install BlueView to your computer

Viewing a Log

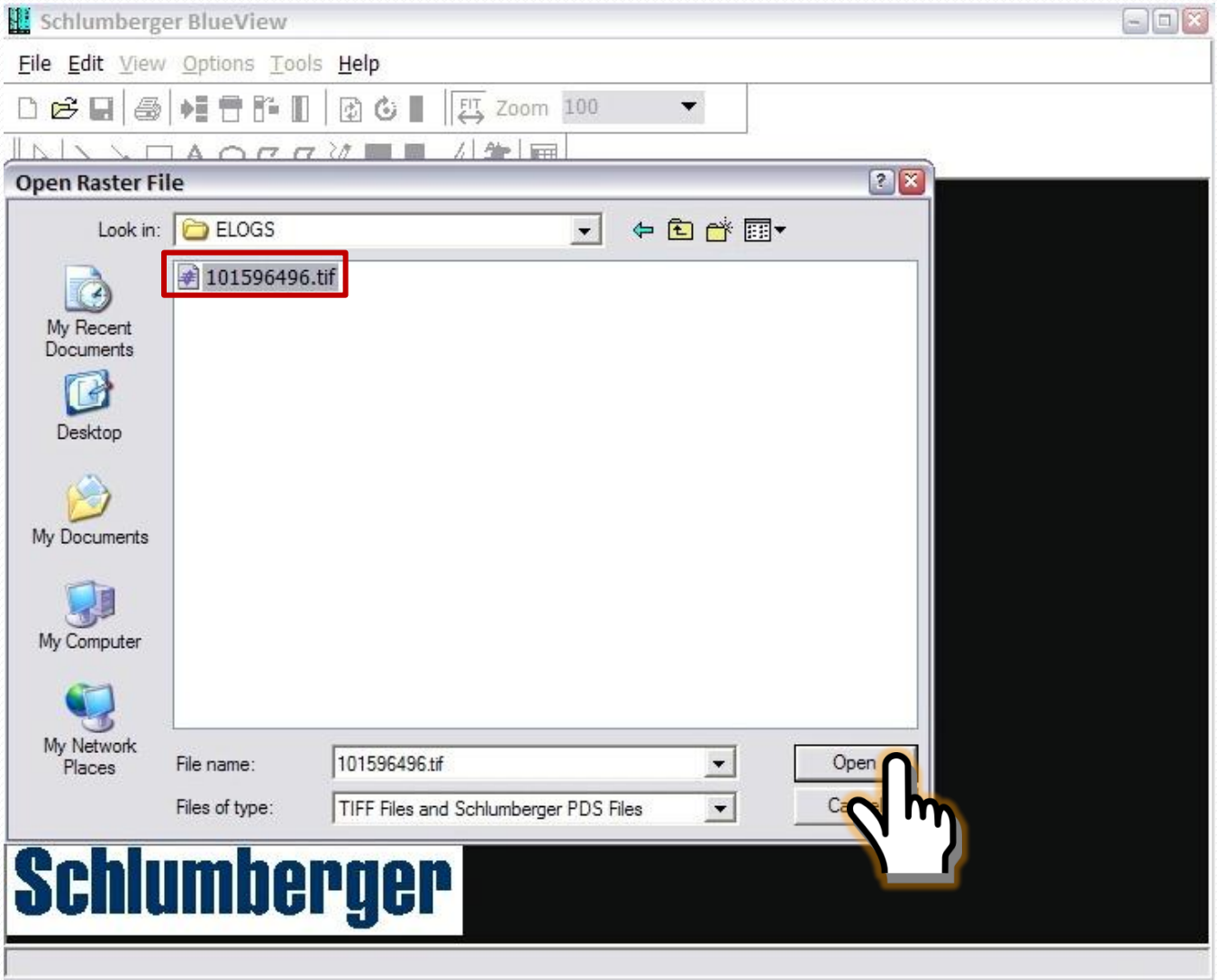
Once downloaded, locate the Blueview icon on your desktop and double-click to open.



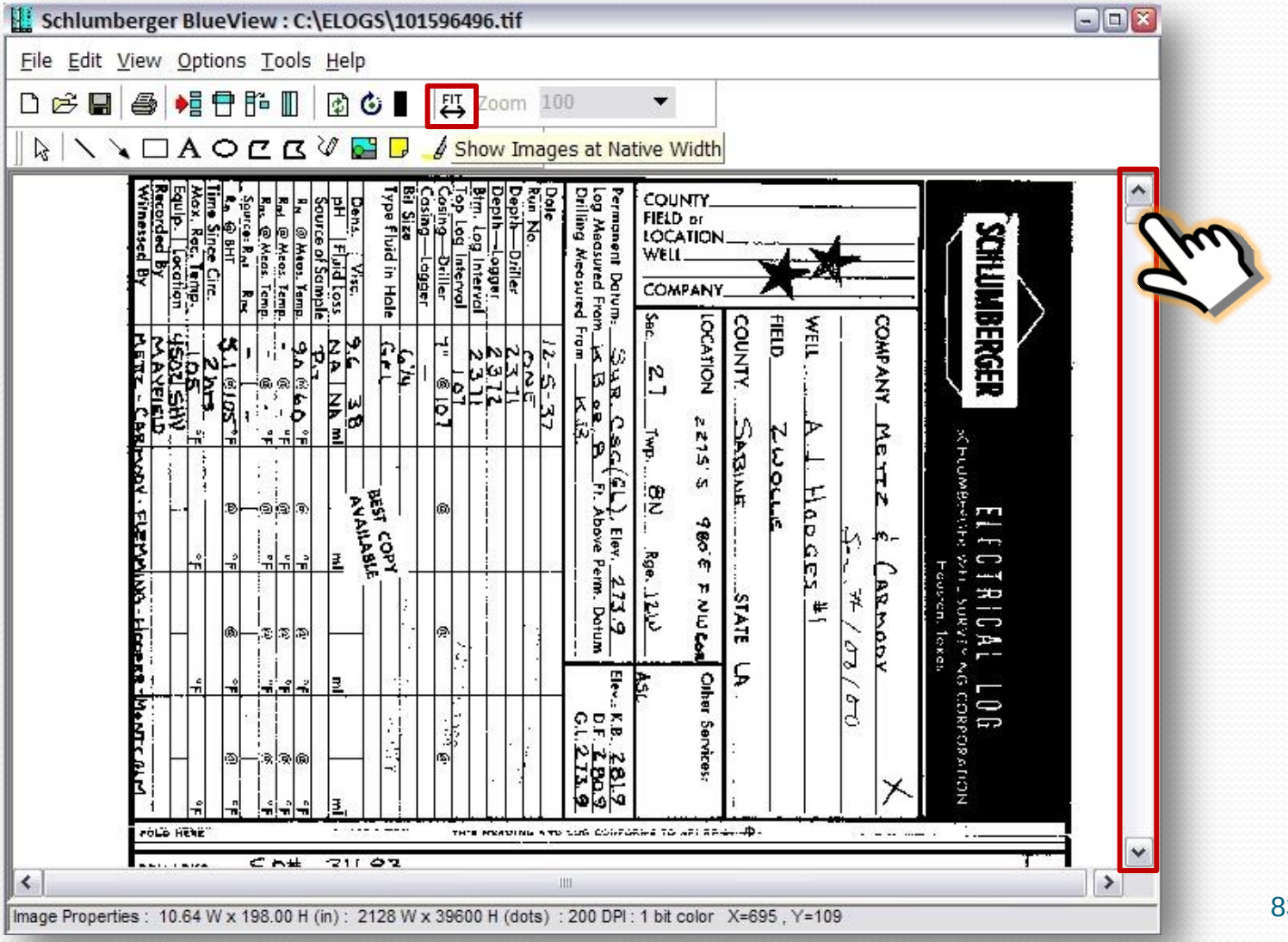
Select File from the top menu, and choose Open Image File(s) from the drop down menu.



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

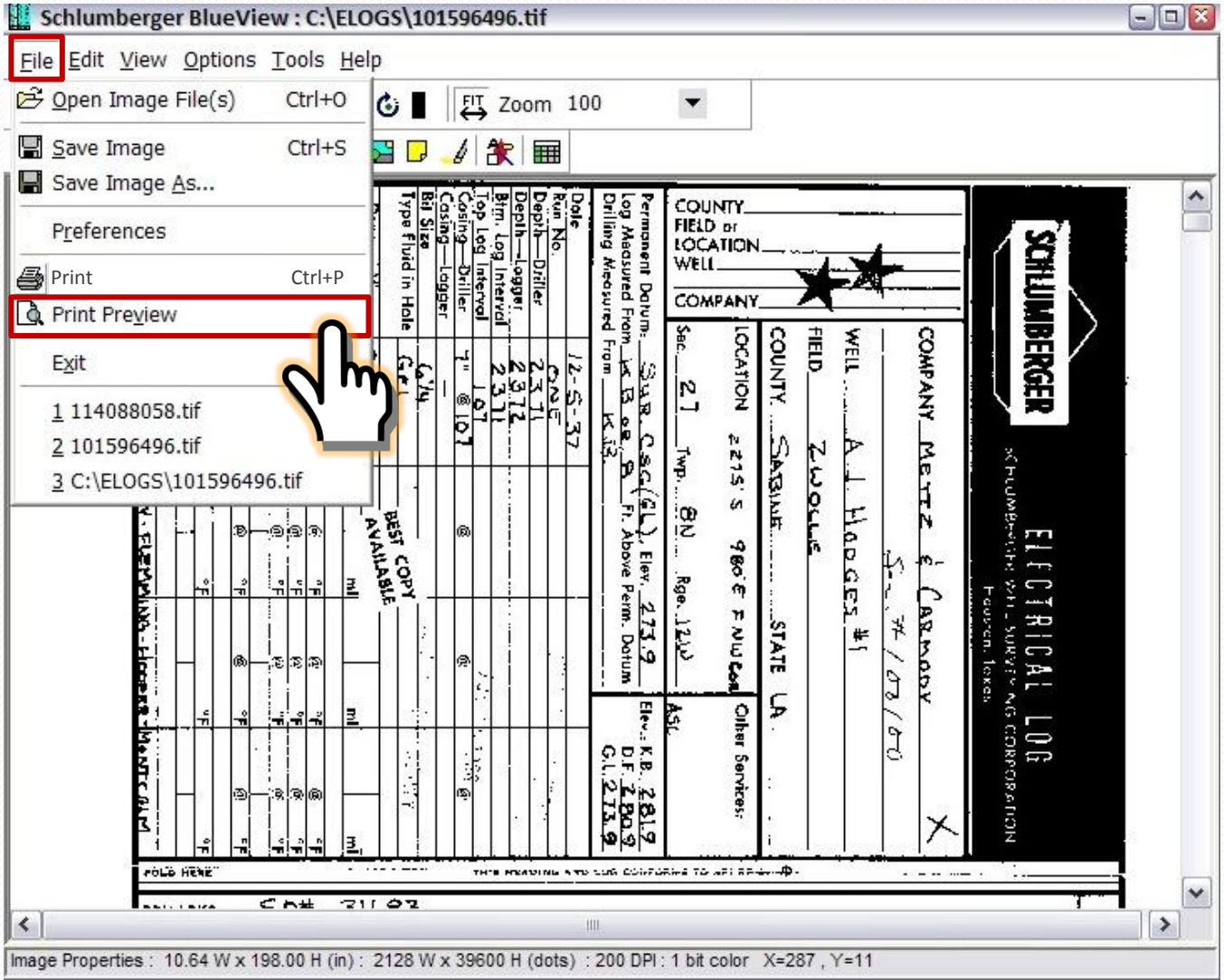


Make sure the FIT button is selected in the menu bar. Scroll down to view the entire log.

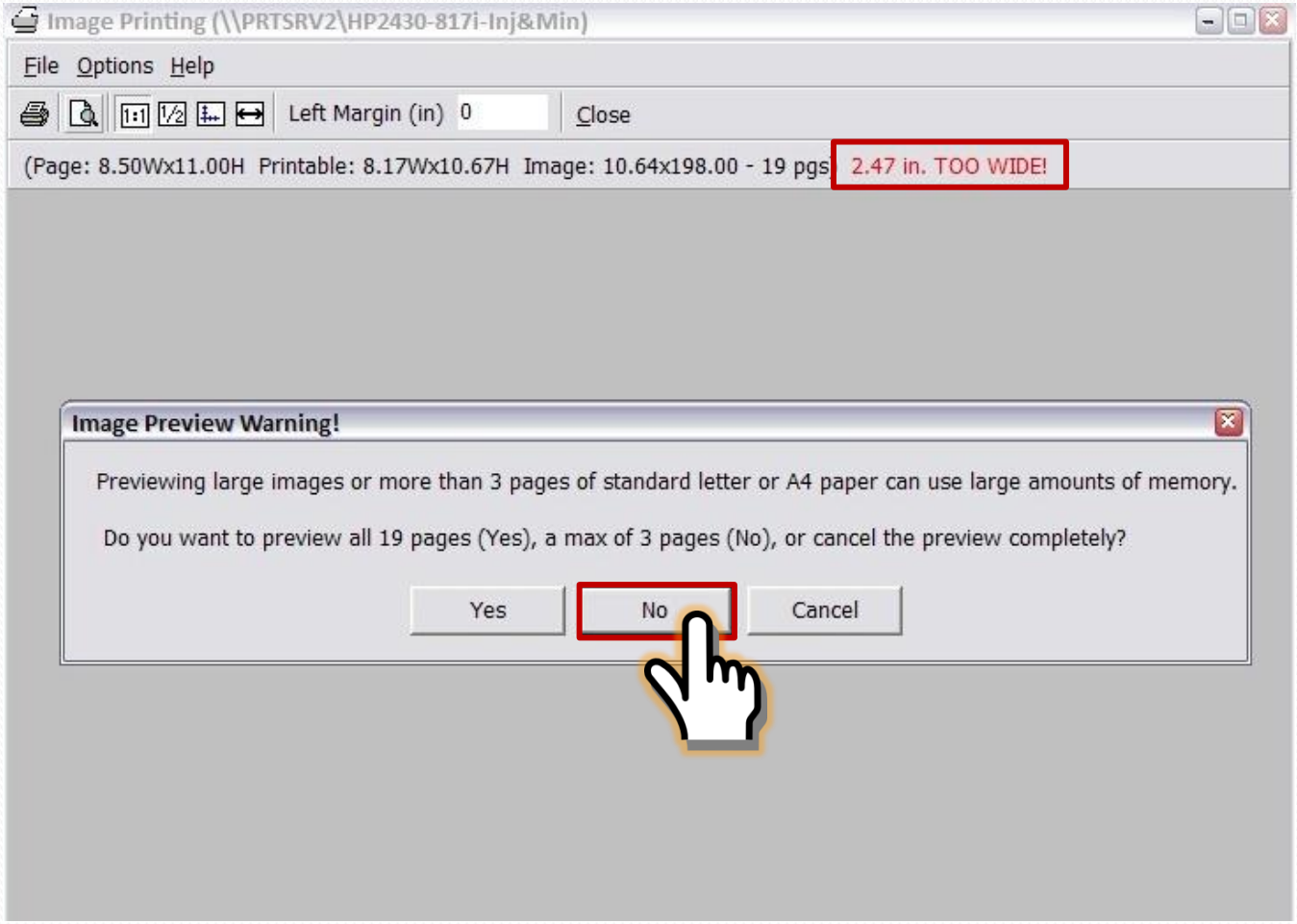


Printing a Log

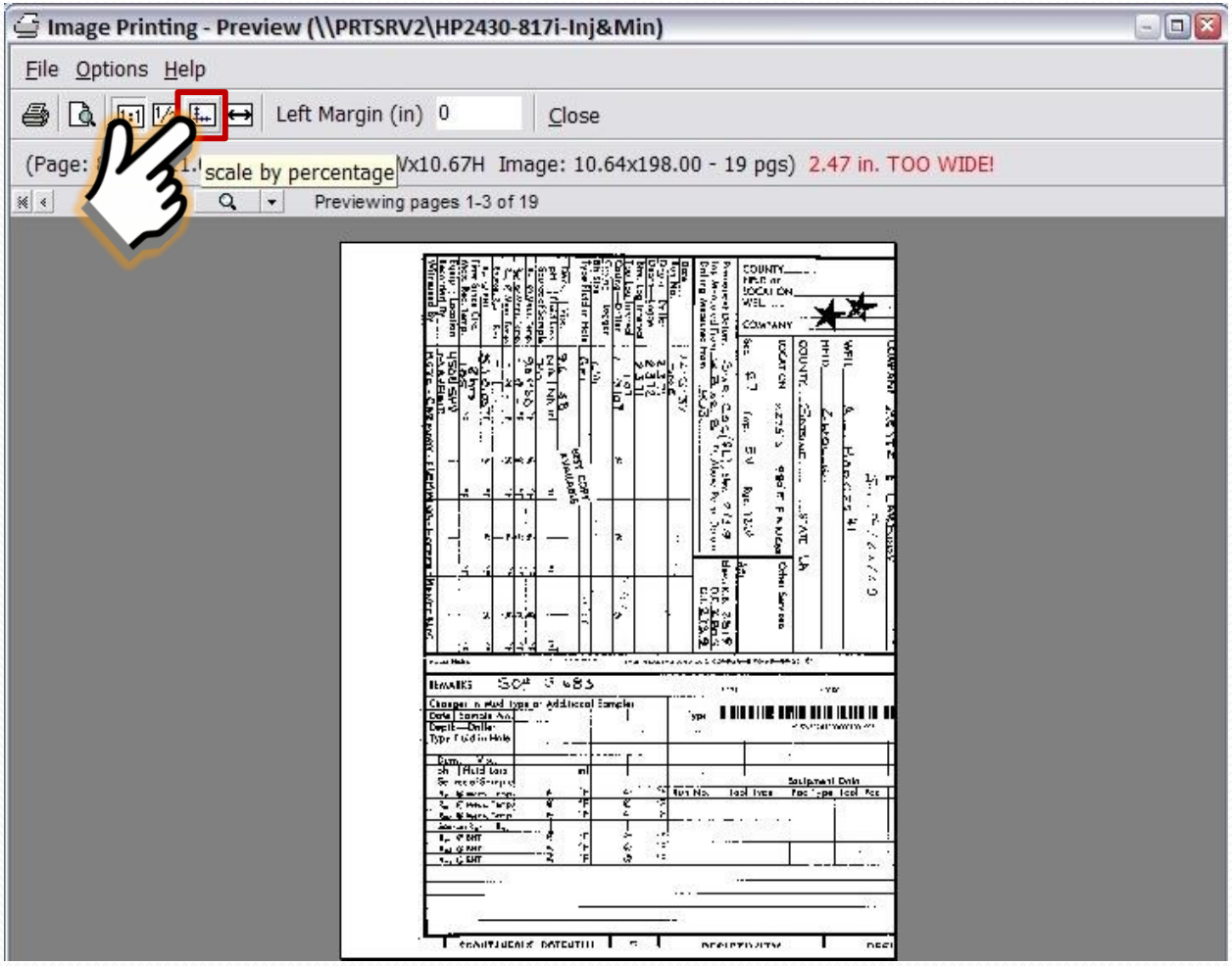
To print the log, select File from menu bar, and choose Print Preview from the drop-down menu.



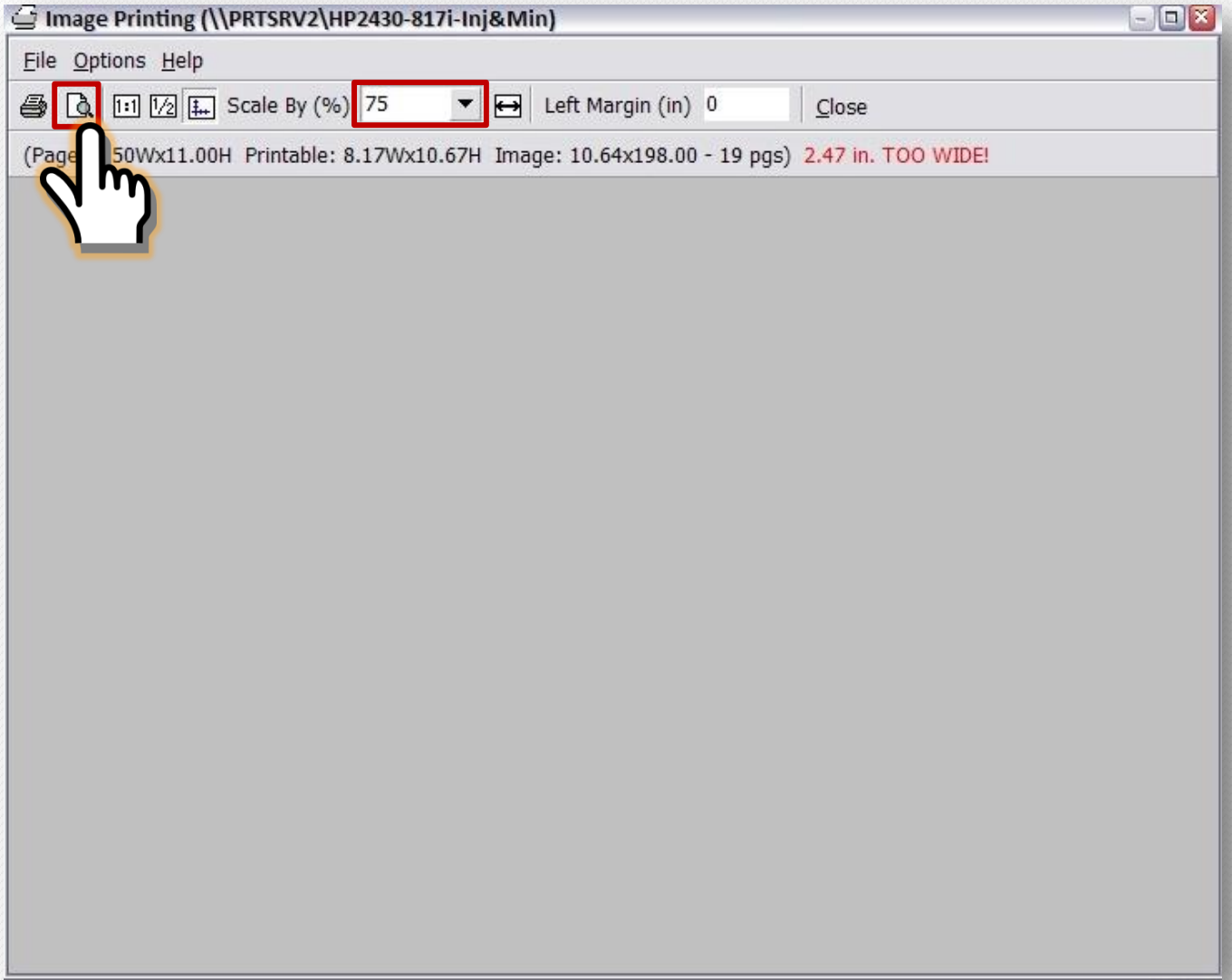
Previewing large images takes a lot of memory. The program will ask if you want to view the ENTIRE IMAGE (Yes), or ONLY 3 PAGES (No). Select No.



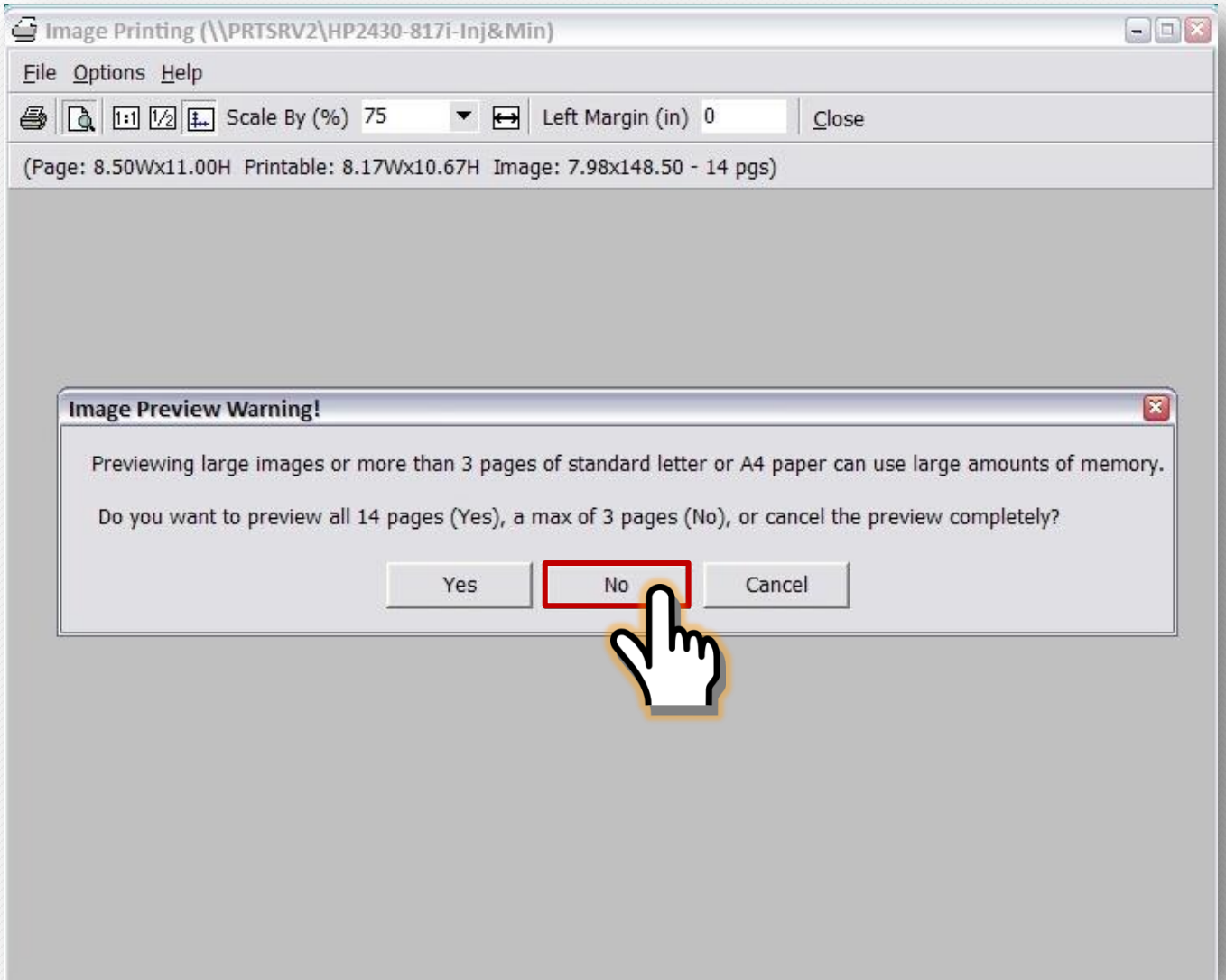
Preview the log. If the elog width does not fit on the page, adjust the size of the image by selecting the Scale by Percentage button from the menu bar.



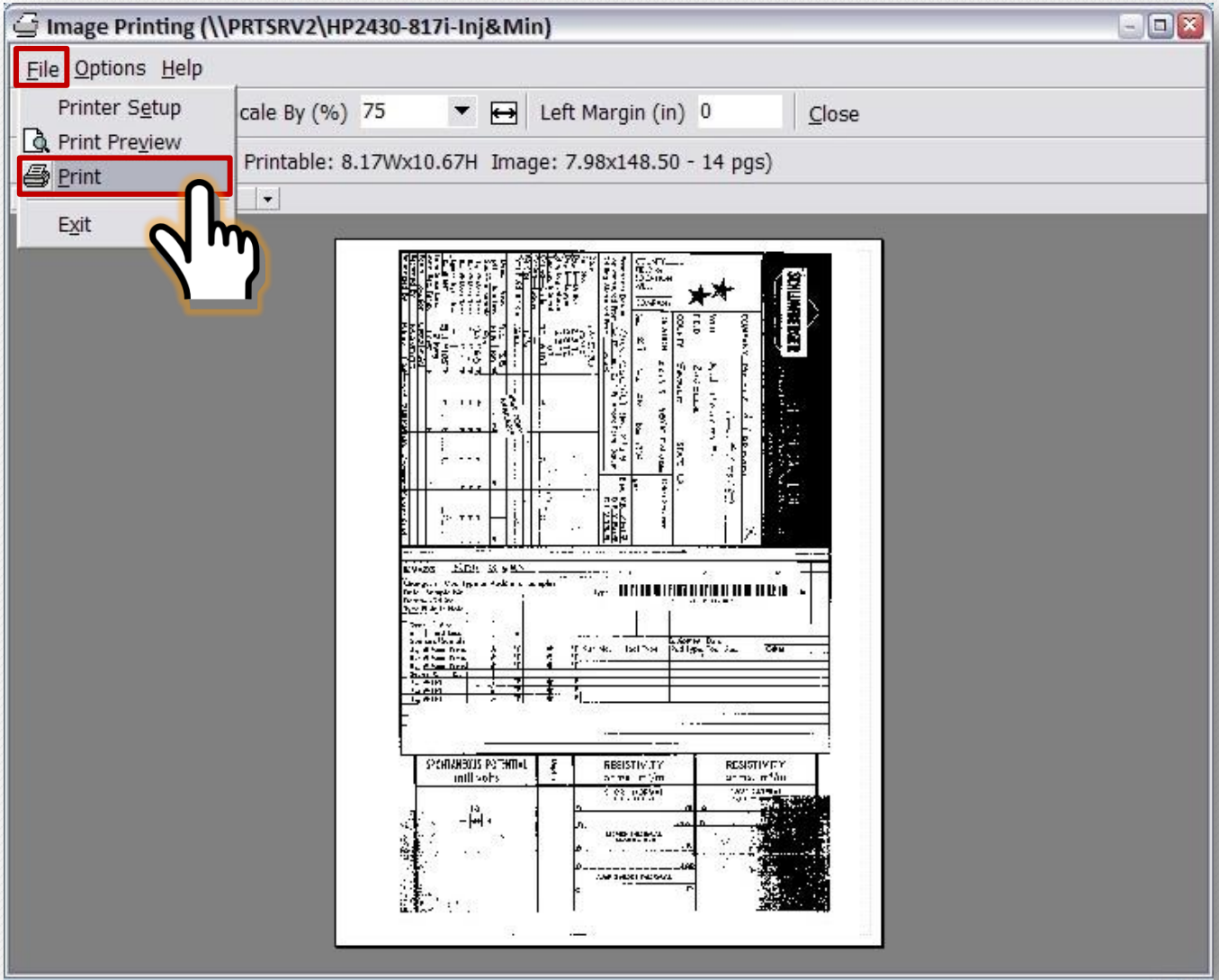
Enter a new Percentage in the Scale By (%) field, and select the Print Preview button from the menu bar.



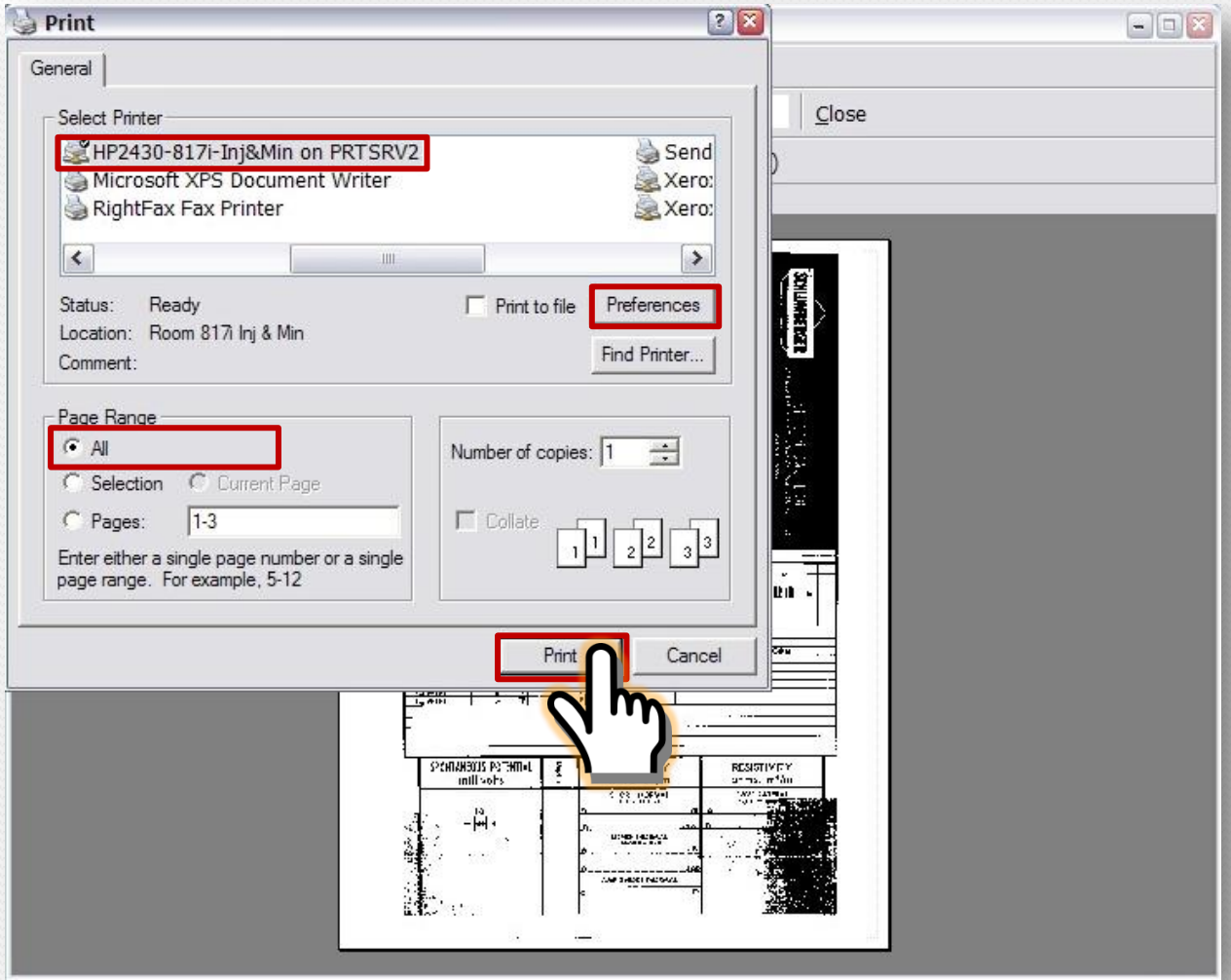
Preview Only 3 Pages by selecting the No button.



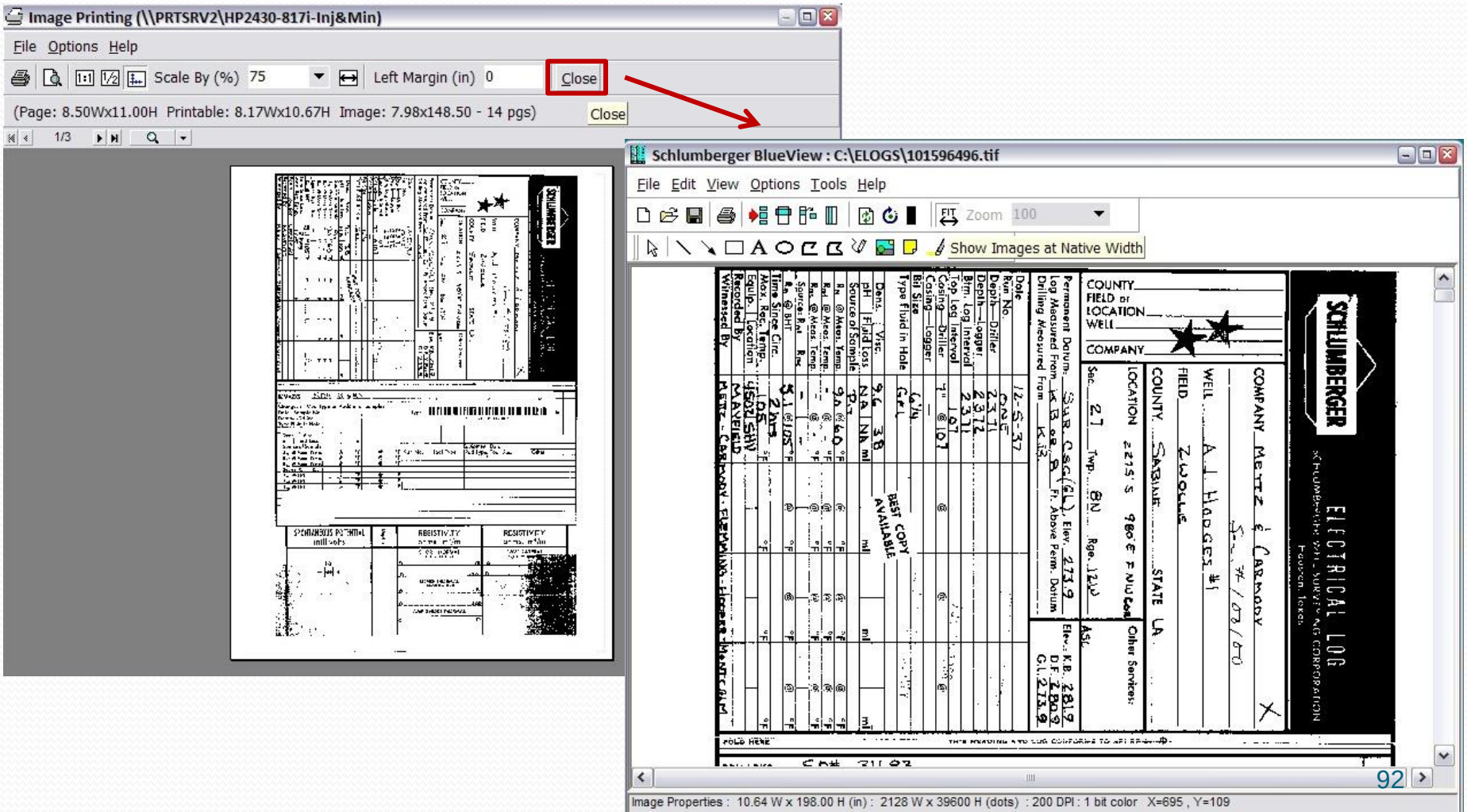
When you are ready to Print, select File from the menu bar, and choose Print from the drop-down menu



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.



Select the Close button to return to the main screen.



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