JOHN BEL EDWARDS
GOVERNOR

State of Louisiana

DEPARTMENT OF NATURAL RESOURCES
OFFICE OF CONSERVATION

THOMAS F. HARRIS
SECRETARY

RICHARD P. IEYOUB
COMMISSIONER OF CONSERVATION

March 24, 2022

Michael Neese
Capio Sequestration, LLC (C8966)
109 N Post Oak Lane, Suite 440
Houston, TX 77024

Re: Application No. 43033/Stratigraphic Test Well
Sherburne Well No. 001
Sherburne Field – Point Coupee Parish

Serial No. 975895
API No. 17077880290000
SEC 024/T06S/R07E

Dear Mr. Neese,

The application by Capio Sequestration, LLC (C8966) to drill a Class V stratigraphic test well has met the interim requirements for permitting such a well. You are hereby granted approval to perform the work as described in the application. The approved work must be completed by March 24, 2023.

Capio Sequestration, LLC (C8966) is to notify the Conservation Enforcement Specialist (CES) for Point Coupee Parish, Sarah Hitchcock at 337-298-8726 or by calling the Injection and Mining Division at (225) 342-5515 at least forty-eight (48) hours prior to commencement of work.

Within twenty days after completion of the work, please submit an original copy of a Class V Well History and Work Resume Report (Form UIC-42) documenting the work conducted.

Please be reminded that for future work on the well, a work permit approval must be obtained from this office before repairing, stimulating, plugging, or otherwise working on this well.

Yours very truly,

Richard P. Ieyoub
Commissioner of Conservation

Stephen H. Lee, Director
Injection and Mining Division

RPI:SHL:HHH

F:\OoC\Restricted\Inj\Engineering\Letter Library\Permit to Construct\2022\SN 975895 Application No. 43033-Approval to Construct Class V strat test well.docx

OFFICE OF CONSERVATION

IMD REPORTING REQUIREMENTS >> Class V Stratigraphic Test

Drilling and construction of the well must be completed within one (1) year from the date of the permit approval letter, otherwise, the permit will expire. **Before the expiration of the permit, the operator must notify the Injection and Mining Division (IMD) if a time extension will be requested or if well will not be drilled.**

The approved application describes how the well is to be constructed. Changes in the approved construction, such as well surface location, well depth, or casing setting depths, will require prior written approval from IMD. Failure to obtain prior written approval will be cause for revoking the permit.

At least forty-eight (48) hours prior to commencement of work, the appropriate Conservation Enforcement Specialist (CES) identified below must be contacted. If you are unable to reach the CES, please call the Injection and Mining Division at (225) 342-5515 between the hours of 8:00 a.m. and 4:30 p.m., Monday through Friday.

Application No.	**43033**	Serial No.	**975895**
CES Name	**Sarah Hitchcock (Area 5)**	CES Phone No.	**(337) 298-8726 (Area 5)**

Within twenty (20) days after completion of the well, the completion documents listed below must be filed with IMD for review and approval in compliance with the regulations. Please place the well's Serial Number on the log headings.

- A Class V Well History and Work Résumé Report (Form UIC-42) with an original signature from an authorized representative of the operating company and two photocopies of the form (front and back). The Form UIC-42 can be saved, filled-out, and printed by going to www.dnr.louisiana.gov/consforms >> Injection & Mining Division >> Form UIC-42.
- Two (2) copies of the wellbore schematic depicting the completed well.
- Two (2) copies of the electric log used to identify the USDW.

Send the above required documentation together in **ONE PACKAGE** to:

Office of Conservation- 9th Floor
Injection & Mining Division
617 North 3rd Street
Baton Rouge, LA 70802

Inv # 1244430

043033

SCS ENGINEERS Environmental Consulting & Contracting

January 10, 2022

Mr. Stephen Lee
Director, Injection and Mining Division
Louisiana Department of Natural Resources
P.O. Box 94275
Baton Rouge, Louisiana 70804

Subject: Class V Permit Application
Sherburne Wildlife Management Area, Pointe Coupee Parish, Louisiana

Dear Mr. Lee:

SCS Engineers, Inc. (SCS) is pleased to submit the Class V permit application for the stratigraphic test hole (Sherburne No. 1) located in the Sherburne Wildlife Management Area in Pointe Coupee Parish for Capio Sequestration, LLC.

The application consists of the following information:

- LDNR UIC Form 25, which is the application form
- Attachment A – Schematic of the proposed Class V well
- Attachment B – Proposed testing, logging and coring program

Please contact us with any questions or comments you may have: Monte Markley (316) 558-1414, mmarkley@scsengineers.com or Michael Simms (225) 252-3673, msimms@scsengineers.com.

Sincerely,

Monte R. Markley

Michael A. Simms

Monte Markley
Vice President/Senior Project Director
SCS Engineers

Michael Simms, Ph.D., P.G.
Project Director
SCS Engineers

MM/MS

OFFICE OF CONSERVATION

JAN 10 2022

INJECTION & MINING DIVISION

I. SUBMIT THE FOLLOWING AS A COMPLETE APPLICATION PACKAGE FOR A CLASS-V WELL:

A. Application Fee: Submit the non-refundable application fee for each well per LAC 43:XIX.Chapter 7.

B. Include the following as applicable:

1. One original and two copies of Form UIC-25;
2. Two original Form MD-10-R for each new well to be installed, or Two original Form MD-10-R-A for each existing well to be converted;
3. One original Certified Location Plat showing the location of each Class-V well location;
4. Injected Fluid Analysis:

   a. An analysis of the injected fluid must be submitted with the Application. ***Any laboratory analysis must be a signed original from a Louisiana Department of Environmental Quality certified laboratory.*** In certain cases, the Material Safety Data Sheet (MSDS) sheet may be acceptable.

   b. For wells that are not part of a groundwater remediation project, include a certified statement that the injected fluid is an exempt waste under the Resource Conservation and Recovery Act (RCRA).

5. Geologic map and cross-section of USDW and, if injection is below the USDW, maps and cross-section of the Injection Zone;
6. Surface sketch to scale showing locations of:

   a. Water source well(s) or other source,
   b. Class-V and any other Injection Wells,
   c. General flow (piping) diagram from source to Class-V well; indicate all gauges, water taps, pressure relief and drain valves,
   d. Pertinent buildings and/or other permanent landmarks,
   e. All surrounding property lines; show names of adjacent property owners,
   f. All water wells (including known abandoned wells) and other injection wells on the property and immediately adjacent property.

7. Schematic of the Class-V well showing:

   a. Casing diameter, specifications, material (PVC, steel, etc.), and depth,
   b. Screen type, length, material, slot or opening size,
   c. Injection tubing size inside casing (if any),
   d. Hole diameter (bit size),
   e. Amount and type of cement used and depths to top and bottom of cement,
   f. Wellhead showing all fittings,
   g. Discharge line diameter and connection to wellhead,
   h. Well house (if any).

OFFICE OF CONSERVATION

MAR 25 2022

INJECTION & MINING DIVISION

II. REQUIREMENTS OF A PERMIT APPLICATION FOR CLASS-V INJECTION WELL:

A. Operating a Class-V well without a permit is a violation of Statewide Order No. 29-N-1 (LAC 43:XVII, Subpart 1) and may subject the well owner to enforcement action including fines as provided by La. R.S. 30. No fines will be imposed on the owner of an existing unpermitted injection well provided the owner submits an application for a permit. However, repairing, stimulating, plugging or performing other work on a Class-V well without a work permit (Form UIC-17) may subject the well owner to a fine.

B. The Class-V well must be constructed according to guidelines established by the Louisiana Department of Transportation and Development (LDOTD) for a similar type water well by a licensed water well contractor.

C. After completing the Class-V well, a permanent, weather-proof sign not less than 1 foot by 2-foot in size must be erected within ten feet of the well, which, at a minimum shows the Well Name and Office of Conservation issued Well Serial Number. If the Class-V well is enclosed within a well house, the sign may be inside the well house, if it is prominently visible upon entering.

After completing the Class-V well, complete and submit the Form UIC-42, Well History and Work Résumé Report.

D. When abandoning, the well must be plugged in accordance with Office of Conservation guidelines in effect at the time of abandonment. Plugging requirements will be those of the LDOTD.

The Injection & Mining Division can be reached by telephone at 225-342-5515 or email Injection-Mining@la.gov. Submit the completed application form with all required attachments to:

Mailing Address	Street Delivery Address
Office of Conservation Injection & Mining Division PO Box 94275 Baton Rouge, LA 70804-9275	Office of Conservation Injection & Mining Division LaSalle Building 617 North Third Street, Suite 817 Baton Rouge, LA 70802-5428

LOUISIANA DEPARTMENT OF NATURAL RESOURCES
OFFICE OF CONSERVATION
INJECTION & MINING DIVISION

UIC-25

CLASS-V WELL PERMIT APPLICATION

1. APPLICATION TYPE: (Check One)

X☒ DRILL AND COMPLETE NEW CLASS-V WELL
☐ CONVERT AN EXISTING WELL TO CLASS-V
☐ PERMIT EXISTING CLASS-V WELL
☐ OTHER (SPECIFY):

2. WELL OWNERSHIP (Check One)

X☐ PRIVATE RESIDENCE
☐ COMMERCIAL RESIDENCE OR BUSINESS
☐ GOVERNMENT
☐ OTHER (SPECIFY)

3. IDENTIFY WELL USE (Aquifer Remediation, A/C Heat Pump Return Flow, Process Waste, Subsidence Control, Special Drainage, Salt Water Intrusion Barrier, etc. See LAC 43:XVII.103.C.5 for additional well uses)
Stratigraphic test hole for evaluation of carbon sequestration potential. See attached well schematic and testing program.

4. OWNER/OPERATOR NAME
Capio Sequestration LLC

5. OC OPERATOR CODE
C 8966

6. OWNER/OPERATOR MAILING ADDRESS
109 Post Oak Lane, Suite 140

7. CITY, STATE, ZIP CODE
Houston, Texas 77024

8. PHYSICAL ADDRESS WHERE WELL LOCATED IF DIFFERENT FROM ITEM NO. 6
Sherburne Wildlife Management Area in Pointe Coupee Parish, location is approximately 1.2 mile northeast of the intersection of Highway 975 and Iron Gate Road.

9. CITY, STATE, ZIP CODE
near Krotz Springs, Louisiana

10. TELEPHONE NO
512-629-1242

11. FAX NO

12. E-MAIL ADDRESS
michael.neese@fidelisinfra.com

13. WELL NAME
Sherburne #1

OFFICE OF CONSERVATION
MAR 25 2022
INJECTION & MINING DIVISION

14. WELL NO
#1

15. WELL SERIAL NO (Well Conversions Only)

16. FIELD NAME (if known)
Sherburne

17. FIELD CODE (if known)

18. PARISH NAME
Pointe Coupee

19. SECTION
24

20. TOWNSHIP
6S

21. RANGE
7E

22. LOUISIANA COORDINATE ZONE (Check One)
☐ NORTH ZONE
☒ SOUTH ZONE

For Item Numbers 23 Through 28, Give Coordinates in Louisiana Coordinate System 1927 and 1983

23. LATITUDE (NORTH) NAD 1927
30.535114

24. LONGITUDE (WEST) NAD 1927
-91.714549

25. LOUISIANA LAMBERT (X-Y) COORDINATES (NAD 1927)
X: 1879994 Y: 679649

26. LATITUDE (NORTH) NAD 1983
30.535306

27. LONGITUDE (WEST) NAD 1983
-91.714614

28. LOUISIANA LAMBERT (X-Y) COORDINATES (NAD 1983)
X: 3160794 Y: 740344

29. LIST PERMITS, LICENSES, OR APPROVALS THE APPLICANT HAS RECEIVED OR APPLIED FOR WHICH SPECIFICALLY AFFECT THE APPLICANT'S LEGAL OR TECHNICAL ABILITY TO CARRY OUT THE PROPOSED ACTIVITY. INCLUDE IDENTIFICATION NUMBER OF APPLICATIONS OR, IF ISSUED, THE IDENTIFICATION NUMBER OF THE PERMIT, LICENSE, OR OTHER APPROVALS.

Regulatory Program or Agency	Permits, Licenses, Construction, Project Approval Identification
Louisiana Department of Environmental Quality	Stormwater Construction Permit

30. WELL CASING / CEMENT DATA

HOLE SIZE (inches)	CASING SIZE (OD - inches)	CASING WEIGHT (lb/ft)	CASING GRADE	CASING/LINER SETTING DEPTHS TOP (feet)	CASING/LINER SETTING DEPTHS BOTTOM (feet)	SACKS CEMENT	TYPE CEMENT	CEMENT TOP (feet)
16	16	.375"	X-42 Drive Pipe	0	200	NA	NA	
12 1/4	9 5/8	40	J-55 LT&C	0	3000	859	Class H	0
8 1/2	5 1/2	20	L-80 LT&C	0	6500	1263	Class H	0

31. BASE OF USDW	32. WELL TOTAL DEPTH	33. WELL PLUGBACK DEPTH	34. TUBING SIZE & DEPTH	35. PACKER SIZE & DEPTH
2610 feet	6500 feet	6500 feet	NA	NA

36. INJECTION ZONE DEPTHS
Top: 3650 **Bottom:** 6350

37. COMPLETION/PERFORATION DEPTHS
Top: **Bottom:**

38. WELL COMPLETION (Check One)
☐ OPEN HOLE ☒ PERFORATIONS
☐ SCREEN

39. INJECTION FORMATION NAME
Lower Miocene

40. LINE PRESSURE INTO WELL (psi) NA

41. INJECTED FLUID DENSITY NA

42. INJECTION RATE (gpm)
Normal: NA **Maximum:** NA

43. DESCRIBE IN SUFFICIENT DETAIL THE SOURCE, TYPE, CHARACTERISTICS, ETC. OF THE INJECTION FLUID

The well is a stratigraphic test well and there will be no injection.

44. Is the Well Located on Indian Lands or Other Lands Owned by or under the Jurisdiction or Protection of the Federal Government? ☐ YES ☒ NO

45. Is the Well Located on State Water Bottoms or Other Lands Owned by or under the Jurisdiction or Protection of the State of Louisiana? ☒ YES ☐ NO

46. AGENT OR CONTACT AUTHORIZED TO ACT ON BEHALF OF THE APPLICANT DURING THE PROCESSING OF THIS APPLICATION. IF WATER WELL CONTRACTOR, PROVIDE WATER WELL CONTRACTOR LICENSE NUMBER.

NAME: Mr. Michael Neese

MAILING ADDRESS: 109 Post Oak Lane, Suite 440

CITY, STATE, ZIP CODE: Houston TX 77024

TELEPHONE NUMBER: 512-629-1242 FAX NUMBER:

E-MAIL ADDRESS: michael.neese@fidelisinfra.com

WATER WELL CONTRACTOR'S LICENSE NO: NA

47. CERTIFICATION BY WELL OWNER/OPERATOR

I certify that as the owner/operator of the injection well, the person identified in Item No. 46 above is authorized to act on my behalf during the processing of this application, to submit additional information as requested, and to give oral statements in support of this application. I will grant an authorized agent of the Office of Conservation entry onto the property to inspect the injection well and related appurtenances as per LSA-R.S. 30:4. I agree to operate the well in accordance with Office of Conservation guidelines. I further certify under penalty of law that I have examined and am familiar with the information submitted in this document and all attachments and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment or both (LSA-R.S. 30:17).

Print Name of Well Owner/Operator	Print Title of Company or Government Official (as applicable)
Peter Hollis, Capio Sequestration	President

Signature of Well Owner/Operator	Date
	3/24/2022

975895

LOUISIANA DEPARTMENT OF NATURAL RESOURCES
OFFICE OF CONSERVATION
INJECTION & MINING DIVISION

UIC-25

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Stratigraphic test hole for evaluation of carbon sequestration potential. See attached well schematic and testing program.

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5. OC OPERATOR CODE
C 8966

OFFICE OF CONSERVATION
MAR 24 2022
INJECTION & MINING DIVISION

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109 Post Oak Lane, Suite 140

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Houston, Texas 77024

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Sherburne #1

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17. FIELD CODE (if known)

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☐ NORTH ZONE ☒ SOUTH ZONE

For Item Numbers 23 Through 28, Give Coordinates In Louisiana Coordinate System 1927 and 1983

HH 3/24/22

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-91.714614 91° 42' 52.72"

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Louisiana Department of Environmental Quality	Stormwater Construction Permit

975895

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2610 feet	6500 feet	6500 feet	NA	NA

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Top: 3650 Bottom: 6350

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38. WELL COMPLETION (Check One)
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39. INJECTION FORMATION NAME
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40. LINE PRESSURE INTO WELL (psi) NA

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42. INJECTION RATE (gpm)
Normal: NA Maximum: NA

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NAME: Mr. Michael Neese

MAILING ADDRESS: 109 Post Oak Lane, Suite 440

CITY, STATE, ZIP CODE: Houston TX 77024

TELEPHONE NUMBER: 512-629-1242 FAX NUMBER:

E-MAIL ADDRESS: michael.neese@fidellsinfra.com

WATER WELL CONTRACTOR'S LICENSE NO: NA

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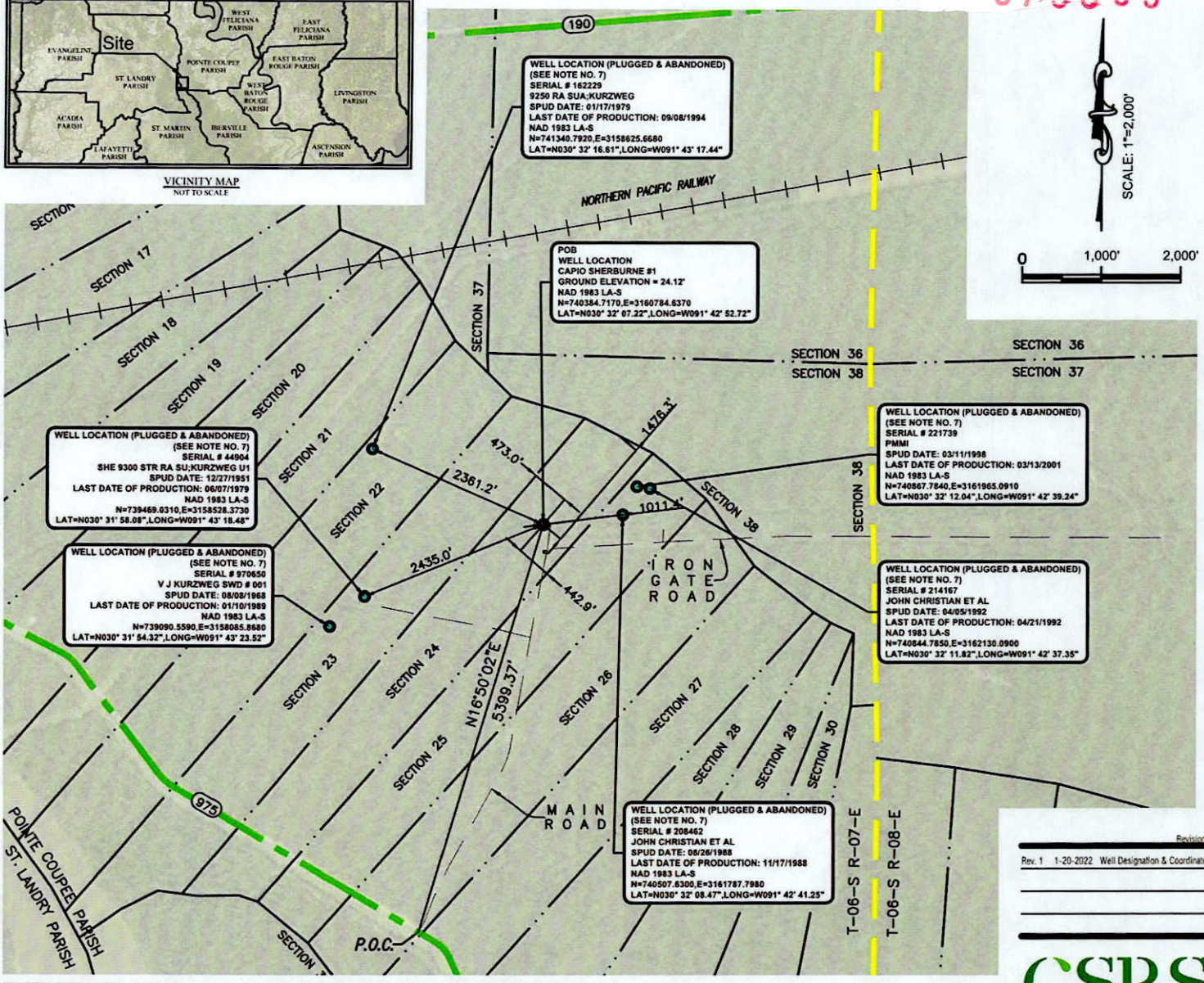
Print Name of Well Owner/Operator	Print Title of Company or Government Official (as applicable)
Peter Hollis, Capio Sequestration	President

Signature of Well Owner/Operator	Date
	3/24/2022

975895

VICINITY MAP
NOT TO SCALE



SCALE: 1"=2,000'
0 1,000' 2,000'

GENERAL NOTES:

1. THE COORDINATES AND BEARINGS SHOWN HEREON ARE REFERENCED TO LOUISIANA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE 1702, (NAD 1983).
2. SECTION LINES HAVE NOT BEEN VERIFIED IN THE FIELD AND SHOWN FOR GENERAL REFERENCE ONLY.
3. POINT OF COMMENCEMENT HAS BEEN VERIFIED AND LOCATED IN THE FIELD. FIELD WORK COMPLETED ON JANUARY 12, 2022.
4. NO ATTEMPT HAS BEEN MADE BY CSRS TO LOCATE UNDERGROUND UTILITIES, OR ABOVE GROUND UTILITY FEATURES AND PIPELINE RIGHTS OF WAY.
5. NO ATTEMPT HAS BEEN MADE BY CSRS, INC. TO VERIFY TITLE, ACTUAL LEGAL OWNERSHIPS, DEED RESTRICTIONS, SERVITUDES, EASEMENTS, OR OTHER BURDENS ON THE PROPERTY, OTHER THAN THAT FURNISHED BY THE CLIENT OR HIS REPRESENTATIVE.
6. DISTANCES ARE IN U.S. SURVEY FEET.
7. REFERENCE DOCUMENTS:
   A.) SECTION LINE AND WELL INFORMATION WAS OBTAINED FROM HTTP://SONRIS-WWW.DNR.STATE.LA.US/GIS.
8. ELEVATIONS WERE DERIVED FROM THE LEICA NETWORK SYSTEM USING TRIMBLE R8 DUAL FREQUENCY GPS UNITS AND NAVD 1988 DATUM, GEOID 18.

SURVEYORS NOTES:

I, COLIN B. GRAVOIS, PROFESSIONAL LAND SURVEYOR, CERTIFY THAT THE WELL LOCATION DEPICTED AND DESCRIBED IN THIS PLAT WAS LOCATED AND SURVEYED IN THE FIELD BY ME OR UNDER MY DIRECTION WITH ACCURACY AND PRECISION TO THE NEAREST FOOT. I HAVE PROPERLY EXAMINED THIS PLAT AND HAVE DETERMINED THAT IT COMPLIES WITH EXISTING LOCAL LOUISIANA CODES, AND HAS BEEN PROPERLY SITE ADAPTED TO USE IN THIS AREA.

LEGAL DESCRIPTION:

A WELL LOCATION, DESIGNATED AS CAPIO SHERBURNE #1, BEING LOCATED IN SECTION 24, TOWNSHIP 6 SOUTH, RANGE 7 EAST, SITUATED IN THE SHERBURNE WILDLIFE MANAGEMENT AREA; COMMENCING AT THE INTERSECTION OF THE CENTERLINE OF LOUISIANA HIGHWAY 975 AND THE CENTERLINE OF MAIN ROAD IN THE SHERBURNE WILDLIFE MANAGEMENT AREA; THENCE, NORTH 16 DEGREES 50 MINUTES 02 SECONDS EAST, A DISTANCE OF 5,399.37 FEET TO THE POINT OF BEGINNING, SAID POINT BEING THE CENTER OF WELL LOCATED AT N=740,384.7170, E=3,160,784.6370, POINT ALSO BEING THE POINT OF BEGINNING. SAID WELL LOCATION BEING THE SAME PROPERTY AS SHOWN ON "EXHIBIT SHOWING WELL LOCATION FOR CAPIO SHERBURNE #1, BEING A PORTION OF SHERBURNE WILDLIFE MANAGEMENT AREA", DATED JANUARY 13, 2022, BY COLIN B. GRAVOIS.

CAPIO SHERBURNE #1 – WELL LOCATION

NAD 1927
LAT = N30°32'06.52"
LONG = W91°42'53.30"
NORTHING = 679673.920
EASTING = 1879984.666

NAD 1983
LAT = N30°32'07.22"
LONG = W91°42'52.72"
NORTHING = 740384.7170
EASTING = 3160784.6370

LEGEND:

SYMBOL	DESCRIPTION
●	WELL LOCATION
975	STATE ROUTE
	TOWNSHIP LINE
	CENTERLINE OF GRAVEL ROAD

SURVEYORS CERTIFICATION:

I HEREBY CERTIFY THAT I MADE THIS SURVEY ON THE GROUNDS OF THE PROPERTY SHOWN AND THAT THIS DRAWING ACCURATELY REFLECTS THE FINDINGS OF SAID SURVEY.

STATE OF LOUISIANA
COLIN B. GRAVOIS
License No. 5115
PROFESSIONAL
LAND SURVEYOR
2-16-2022

Revisions:
Rev. 1 1-20-2022 Well Designation & Coordinates

CSRS
8555 United Plaza Blvd. Baton Rouge, LA 70809
Telephone: 225 769-0546 Fax: 225 767-0060
www.csrsinc.com

EXHIBIT SHOWING WELL LOCATION

FOR

CAPIO SHERBURNE #1

BEING A PORTION OF

SHERBURNE WILDLIFE MANAGEMENT AREA

Located in

SECTION 24
T-6-S R-7-E
SOUTHEASTERN WEST OF
MISSISSIPPPI RIVER LAND DISTRICT
POINTE COUPEE PARISH
LOUISIANA

For

CAPIO

Date:	JANUARY 13, 2022
Project Number:	220090
Drawn By:	TBO
Checked By:	CBG
Sheet:	1

Sheet No: 1 of 1

P:\220090\SURVEY\CAPIO WELL SITE SHERBURNE WMA\Drawings\Exhibit\ 220090 - CAPIO SHERBOURNE EXHIBIT (8.5x11).dwg Feb 16, 2022 - 3:06pm

Attachment A

WELLBORE SCHEMATIC

975895

WELL	**: Sherburne #1 Test**	**AFE**	**: #2**
SL	**: N30° 32' 7.10", W91° 42' 52.61"**	**S/T/R**	**: S24-T6S-R7E**
BHL	**: Straight hole (Injection)**	**FIELD**	**: Sherburne**
PARISH	**: Point Coupee**	**OBJECTIVE**	**: Miocene Sands**
STATE	**: Louisiana**	**PTD**	**: 6,500' MD**

HOLE SIZE | **GL=+/-25' Projected KB = +/-13.5' AGL** | **FORMATION TOPS** | **LOGS** | **CASING AND CEMENT** | **MUD WEIGHT**

16"

200'

Drive 16" O.D., .375" WT, X-56 Drive Pipe to 200', 150 BPF, Bearing Load of 450K lbs.

Top of Lead Surface Casing Cement: 0'

Top of Tail Surface Casing Cement: 2,500'

Logging Program:
OH: Triple Combo with Sonic: 3,000' to Surface
CH: CBL-GR-CCL: 3,000' to Surface

9⅝", 40#, J-55, LT&C
BHT - 114°F

9⅝" Surface Cement:
Lead – 11.8 ppg, 580 sx(1594 ft³)
Tail – 15.6 ppg, 279 sx(332 ft³)
Lead TOC - Surface
Tail Cement Top – 2,500'

12¼"

WBM
8.6-9.3 ppg
30-38 vis
20 FL

3,000'

Top of Production Lead Cement: 0'

Middle Miocene 3,000'

WBM
9.3 – 9.5 ppg
36 - 40 vis
4 or less FL

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Lower Miocene 3,400'

3,500'

8½"

Mud Logging: 3,000' to TD

Coring Program:
4 - 4" x 30' cores at 3,350', 3,650', 5,000', & 6,350'
Potential Sidewall Cores at TD

WBM
9.3 – 9.5 ppg
36 - 40 vis
4 or less FL

Top of Tail Production Cement: 4.000'

Logging Program:
OH: Triple Combo with Sonic: TD – Surface casing
CH: CBL-GR-CLL: PBTD – Surface

4,000'

Mechanical Intregity Test:
Surface Casing will be tested to 1200 psi before drilling the production hole and before running production casing.
Production Casing will be tested to 1200 psi after the wellbore has been cleaned out to PBTD.

WBM
9.5 – 10.0 ppg
36-40 vis
4 or less FL

5-1/2" Production Cement:
Unweighted Spacer
Lead – 12.8 ppg, 647 sx(1080 ft³) TOC @ 0'
Tail – 14.5 ppg, 616 sx (750 ft³) TOC @ 4,000'
3.5 – 4.5 hr TT
Est. BHST – 141°F

6,350'

Anahuac 6,350'

WBM
10.0 ppg
38-44 vis
4 or less FL

TD – 6,500'

5-1/2", 20.0#, L-80, LT&C

Total Depth: 6,500' MD/TVD

Est. BHST – **141°F**

Prepared By: Bob Dodd 01-21-2022

975895

Revised March 24, 2022

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MAR 24 2022

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Attachment B – Well Testing Program

Capio Sequestration

Class V Proposed Location

Sherburne WMA, Pointe Coupee Parish, LA

Purpose and Background:

The purpose of this Class V permit application is to evaluate the stratigraphy and lithological properties of the Lower Miocene clays and sands and Anahuac clay.

The anticipated stratigraphy is based on offset logs and regional geologic data.

Base of USDW	Base of Miocene aquifer system	2,610 feet
Miocene confining interval	Base of Middle Miocene and top of Lower Miocene	3,000 to 3,650 feet
Top of Lower Miocene	Lower Miocene injection zone is in fluvial sands from 3,650 to 6,350 feet	3,400 feet
Anahuac	Confining zone below Miocene and above Frio	6,350 to 7,000 feet
Frio	Injection zone is in deltaic sands	7,000 to 8,850 feet
Vicksburg	Confining zone below Frio	8,850 feet
Geopressure		12,500 feet approx..

Drilling and Testing Program

Geophysical Logging:

The geophysical logging program is designed to obtain information on reservoir fluid characteristics, potential confining and injection interval physical properties (porosity, lithology, thickness, etc.) and is planned to be conducted by Schlumberger.

The base of the USDW is at approximately 2,610 feet depth based on logs of wells in the area and U.S. Geological Survey Hydrologic Investigations Atlas HA-310 (Saline Ground Water in Louisiana, Winslow, Hillier, and Turcan, 1968).

The surface casing will be installed at approximately 3,000 feet depth and will be approximately 400 feet below the base of the USDW.

The base of the USDW will be identified at the drill site by logging the open-hole interval of the surface casing with gamma, SP, and resistivity. This log suite will be submitted to the LDNR after its acquisition.

Open Hole Logs:

Base of Conductor Casing to 3,000 feet (base of surface casing):

Run 1: Gamma, Spontaneous Potential (SP), Resistivity to identify the base of the USDW

Base of Surface Casing (3,000 feet) to Total Depth:

Run 1: Gamma, Spontaneous Potential (SP), Resistivity (Microlog), Neutron Porosity, Density (Three Detector Lithology Density, TLD), and Caliper (Triple Combo, Platform Express or PEX), High Resolution Laterolog Array (HRLA), Spectral Gamma, High Resolution Spectroscopy (such as the Schlumberger Litho Scanner log), Combinable Magnetic Resonance (CMR)

Run 2: Sonic Scanner, Powered Positioning Caliper (4-arm PPC), Formation Imaging (FMI)

Run 3: Potential contingency log run with Modular Formation Dynamics Tester (MDT) or similar tool with dual packer for geotechnical testing depending on borehole conditions encountered during drilling.

Cased Hole Logs

- Cement-Bond Log – Multi sector CBL
- Collar Locator (CLL) – for depth correction and future downhole correlation
- Gamma

Wellsite Mud Logging – To be conducted from 3,000' to TD

Full Barrel Conventional Coring (30-foot length):

<u>Potential Upper confining unit</u>- Shale/clay units in the lower part of the Middle Miocene section with depths and intervals based on open hole logs including the SP, resistivity, and gamma. The depth range of the confining unit intervals is expected to be approximately 3,000 to 3,650 feet and the coring depth is expected to be at approximately 3,350 feet.

<u>Potential upper injection interval -</u> Lower Miocene sands. Depths and intervals to be determined based on open hole logs including the SP, resistivity, and gamma and are expected to be at approximately 4,200 feet and 5,000 feet.

<u>Potential confining zone below the Miocene</u> – Anahuac Group. Depths to be determined from open hole logs and expected to be at approximately 6,400 feet.

If needed based on lack of full barrel core recovery or identification of other zones after logging, sidewall cores with 1.5" by 2.5" cores may be collected.

Cores will be analyzed for a minimum set of parameters that include; porosity, permeability, bulk density, and geotechnical strength properties.

Injectivity Testing:

The proposed injectivity testing will not be conducted because of the proximity of the Class V test well to the plugged and abandoned well bore of well 39827.

Well Materials:

If the proposed test hole is included in the Area of Review (AOR) of any future geologic sequestration projects, the well bore could require corrective action unless CO2-resistant materials are used.

CAPITAL CITY PRESS

Publisher of
THE ADVOCATE

OFFICE OF CONSERVATION

FEB 15 2022

INJECTION & MINING DIVISION

PROOF OF PUBLICATION

The hereto attached notice was published in THE ADVOCATE, a daily newspaper of general circulation published in Baton Rouge, Louisiana, and the Official Journal of the State of Louisiana, City of Baton Rouge, and Parish of East Baton Rouge or published daily in THE TIMES-PICAYUNE/ THE NEW ORLEANS ADVOCATE, in New Orleans Louisiana, or published daily in THE ACADIANA ADVOCATE in

01/13/22

Joy Newman

Joy Newman, Public Notices Representative

Sworn and subscribed before me by the person whose signature appears above

1/13/22

M. Monic McChristian

M. Monic McChristian,
Notary Public ID# 88293
State of Louisiana
My Commission Expires: Indefinite

M. MONIC McCHRISTIAN NOTARY PUBLIC NOTARY NO. 88293 STATE OF LOUISIANA

MICHAEL SIMMS	53275
10123 Jefferson Highway Baton Rouge, LA 70809	

PUBLIC NOTICE

NOTICE OF INTENT
OFFICE OF CONSERVATION
INJECTION AND MINING DIVISION

In accordance with the laws of the State of Louisiana and the particular reference to the provisions of La. R.S. 30:4, and the provisions of Statewide Order No. 29-N-1 (LAC 43:XVII.Subpart 1) as amended and adopted by the Office of Conservation of the State of Louisiana,

Company Name: Capio Sequestration, LLC.
Address: 109 Post Oak Ln.
City, State, Zip: Houston, TX 77024
Phone: 512-629-1242

Has applied to the Office of Conservation, Injection and Mining Division for a permit to drill and complete a Class V Subsurface Stratigraphic Test to acquire geotechnical information.

The proposed test hole will be in Section 24, Township 6S, Range 7E, Pointe Coupee Parish, Louisiana and will be identified as the Sherburne No. 1.

The well will be drilled to a depth of approximately 9,100 feet below surface with geotechnical cores, fluid samples, static pressure measurements, and other applicable information collected.

The application is available for inspection from 8:00 a.m. to 4:30 p.m. Monday through Friday in the Injection and Mining Division Office, Rm. 817, LaSalle Building, 617 North Third Street, Baton Rouge, LA.
Information concerning the application may be obtained by calling (225) 342-5515 or by mail sent to the address stated below.

Interested parties may request a public hearing or submit written comments on the application. Such requests must be received in the Injection and Mining Division by 4:00 PM, no later than 30 days from the date of this publication. Correspondence may be submitted by mail to:

Office of Conservation
Injection and Mining Division
P.O. Box 94275
Baton Rouge, LA 70804-9275
Attn: Stephen H. Lee

53275-jan 13-1t

OFFICE OF CONSERVATION

FEB 15 2022

INJECTION & MINING DIVISION

Marked USDW @ 2610' ~ 8' away - SN 39827

SCHLUMBERGER

WELL SURVEYING RECORD

Location of Well
S-2120' W 4230' fr NW/cor Irregular Sec. 24-6S-7E, 2 1/2 mi SW of Lottie field oil dis. & 4 mi W-SW of Lottie Townsite, 10,500' test

Elevation: D.F. ..... K.B. ..... or G.L. .....

COMPANY: THE TEXAS COMPANY

BEST COPY AVAILABLE

WELL: V.J. KURZWEG ET AL #1

FIELD: ~~WILDCAT~~ Sherburne Dist.

LOCATION: SEC. 24-6S-7E

COMPOSITE

COUNTY: POINTE COUPEE

STATE: LOUISIANA

FILING No. L-102

COMPANY THE TEXAS COMPANY
WELL V.J. KURZWEG ET AL #1
LOCATION SEC. 24-6S-7E
COMPOSITE
FIELD OR WILDCAT
COUNTY POINTE COUPEE

MAY 27 1950 — MINERALS DIVISION — LAFAYETTE, LOUISIANA

RECEIVED JUN 1 1950 LOUISIANA GEOLOGICAL SURVEY

RUN NO.	1	2	3	4	5	6
Date	2/1/50	2/20/50	3/1/50	3/7/50	4/8/50	4/19/50
First Reading	2423	8996	9897	9949	10511	11010
Last Reading	100	2423	8996	9897	9950	10511
Footage Measured	2323	6573	901	52	561	499
Csg Shoe Schlum.	"	2408	2408	2408	9950	9950
Csg Shoe Driller	78	2408	2408	2408	9950	9950
Max. Depth Reached	2423	8996	9897	9949	10511	11010
Bottom Driller	2428	8995	9895	9950	10503	11011
Depth Datum	ONE FOOT ABOVE ROTARY WHICH POINT IS 14.5' ABOVE BRADEN HEAD					
Mud Nature	GEL.	CAUSTIC.	QUEB.	CHEM.	LIME. MYL	GEL. MAGC GEL. MAGCOBAR
" Density	9.6	9.9	10.6	10.8	14.4	14.6
" Viscosity	38.0	44.0	45.0	48.0	50.0	54.0
" Resistivity	3.0@84°F	3.1@90°F	3.4@72°F	3.0@69°F	0.47@74°F	.38@84°F
" Resistivity BHT	2.5@104°F	2.0@142°F	1.6@152°F	1.3@154°F	0.18@192°F	.15@203°F
" pH	@ °F	@ °F	10.0@ °F	@ °F	@ °F	@ °F
" Water Loss	CC/30 Min.	CC/30 Min.	7.0 CC/30 Min.	6.3 CC/30 Min.	CC/30 Min.	CC/30 MIN.
Maximum Temp. °F	104	142	152	154	192	203
Bit Size	15"	9 7/8"	9 7/8"	9 7/8"	6"	6"
Spacings — AM	16"	16"	16"	16"	16"	16"
A	64"	64"	64"	64"	64"	64"
AO	18'8"	18'8"	18'8"	18'8"	18'8"	18'8"
E.S. Rig Time	1 HR.	3 HRS.	1 1/2 HRS.	1 1/2 HRS.	1 1/2 HRS.	1 1/2 HRS.
Truck No.	549	517	528	517	562	549
Recorded By	FONTENOT	DOUGLAS	PEREZ	DOUGLAS	BYRNE	FONTENOT
Witnessed By	THOMAS	MORGAN	MORGAN	MORGAN	BROUSSARD	BROUSSARD

RUN NO.				
Date				
First Reading				
Last Reading				
Footage Measured				
Csg Shoe Schlum.				
Csg Shoe Driller				
Max. Depth Reached				
Bottom Driller				
Depth Datum				
Mud Nature				
" Density				
" Viscosity				
" Resistivity	@ °F	@ °F	@ °F	@ °F
" Resistivity BHT	@ °F	@ °F	@ °F	@ °F
" pH	@ °F	@ °F	@ °F	@ °F
" Water Loss	CC/30 Min.	CC/30 Min.	CC/30 Min.	CC/30 Min.
Maximum Temp. °F				
Bit Size				
Spacings — AM				
A				
AO				
E.S. Rig Time				
Truck No.				
Recorded By				
Witnessed By				

15 39827 2.021 *LSN20211500000039827*

REMARKS

RESISTIVITY -ohms. m²/m. — 0 LATERAL 5 CURVE 10; 0 HIGH 50 SCALE 100

RESISTIVITY -ohms. m²/m. — 0 NORMAL 5 CURVES 10; 0 HIGH 50 SCALE 100; 0 AMPLIFIED NORMAL 2

DEPTHS

SPONTANEOUS-POTENTIAL millivolts — 20 MV

010

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0300
0400
0500
0600
0700
0800
0900
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1100
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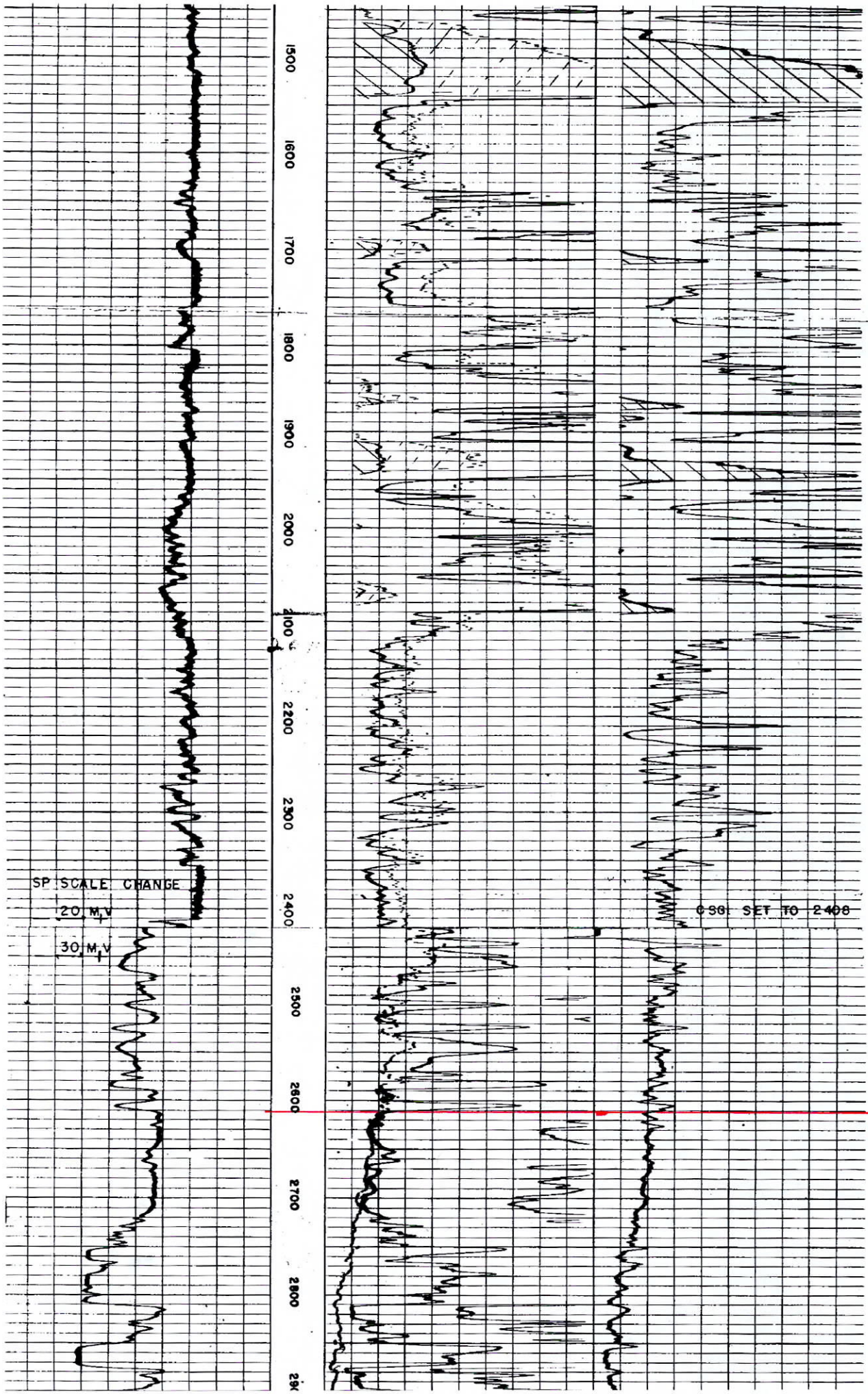
1300
1400
1500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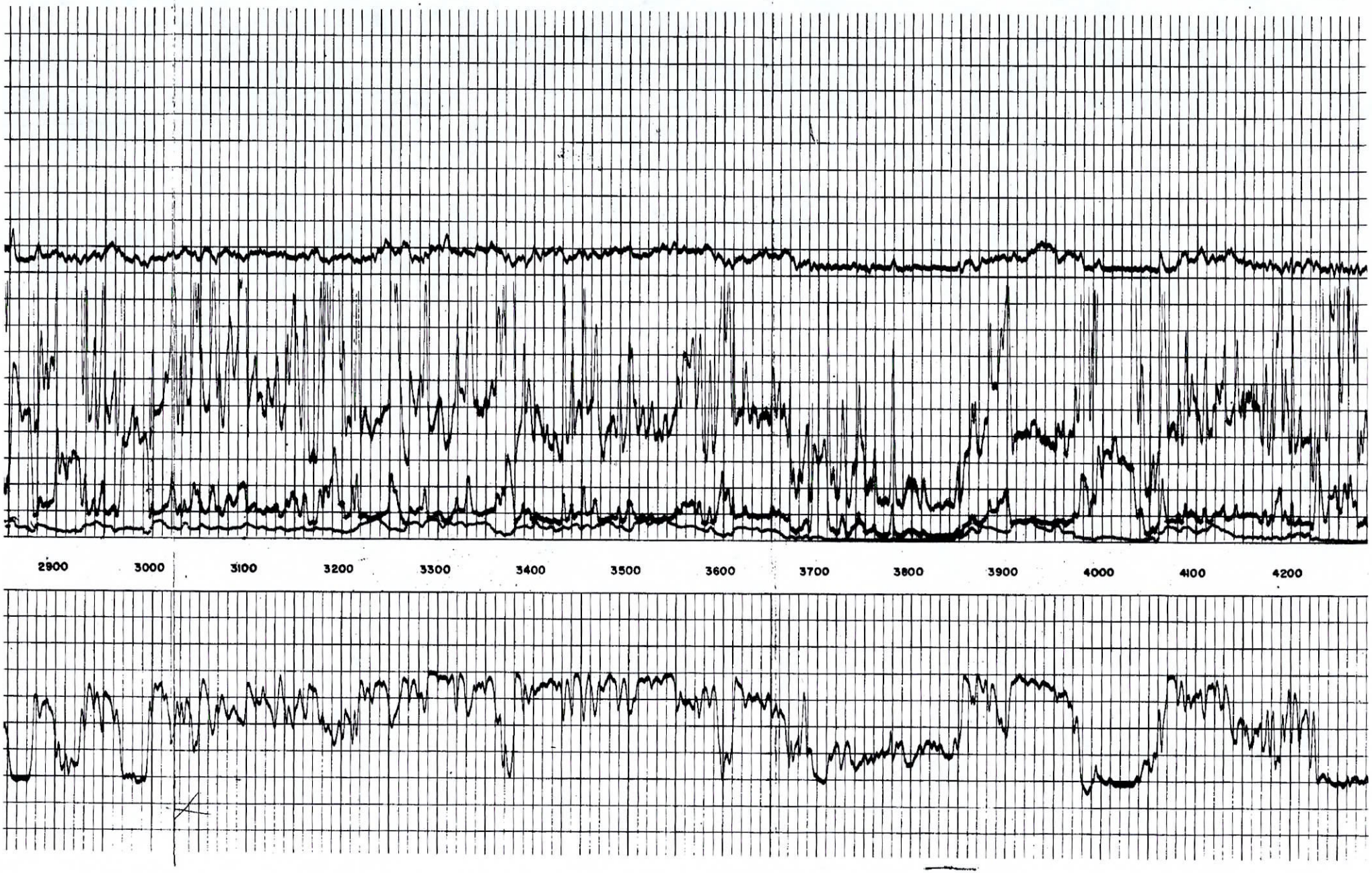
SP SCALE CHANGE
20 M.V
30 M.V
CSG SET TO 2408

USDW @ 2610'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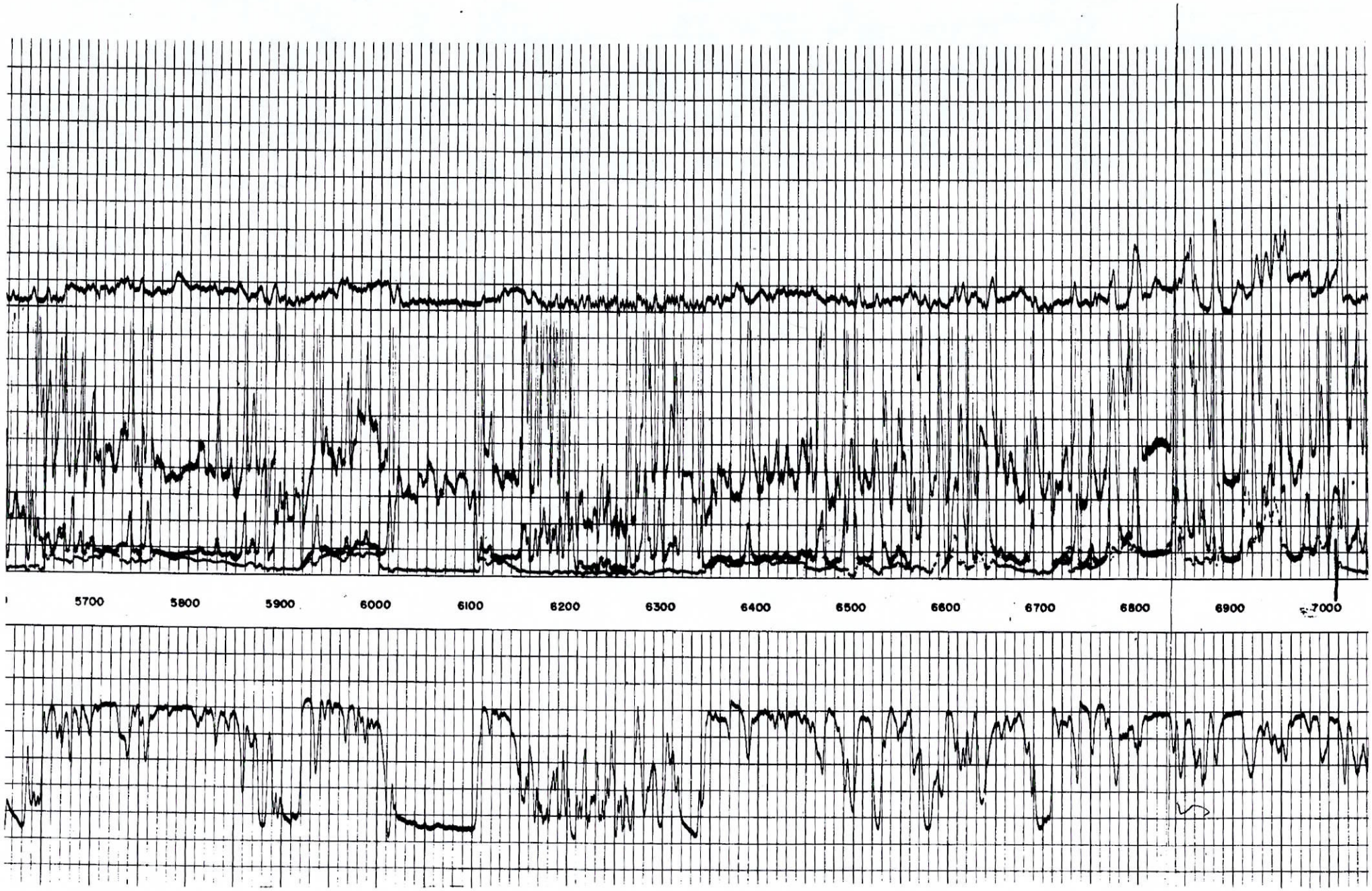
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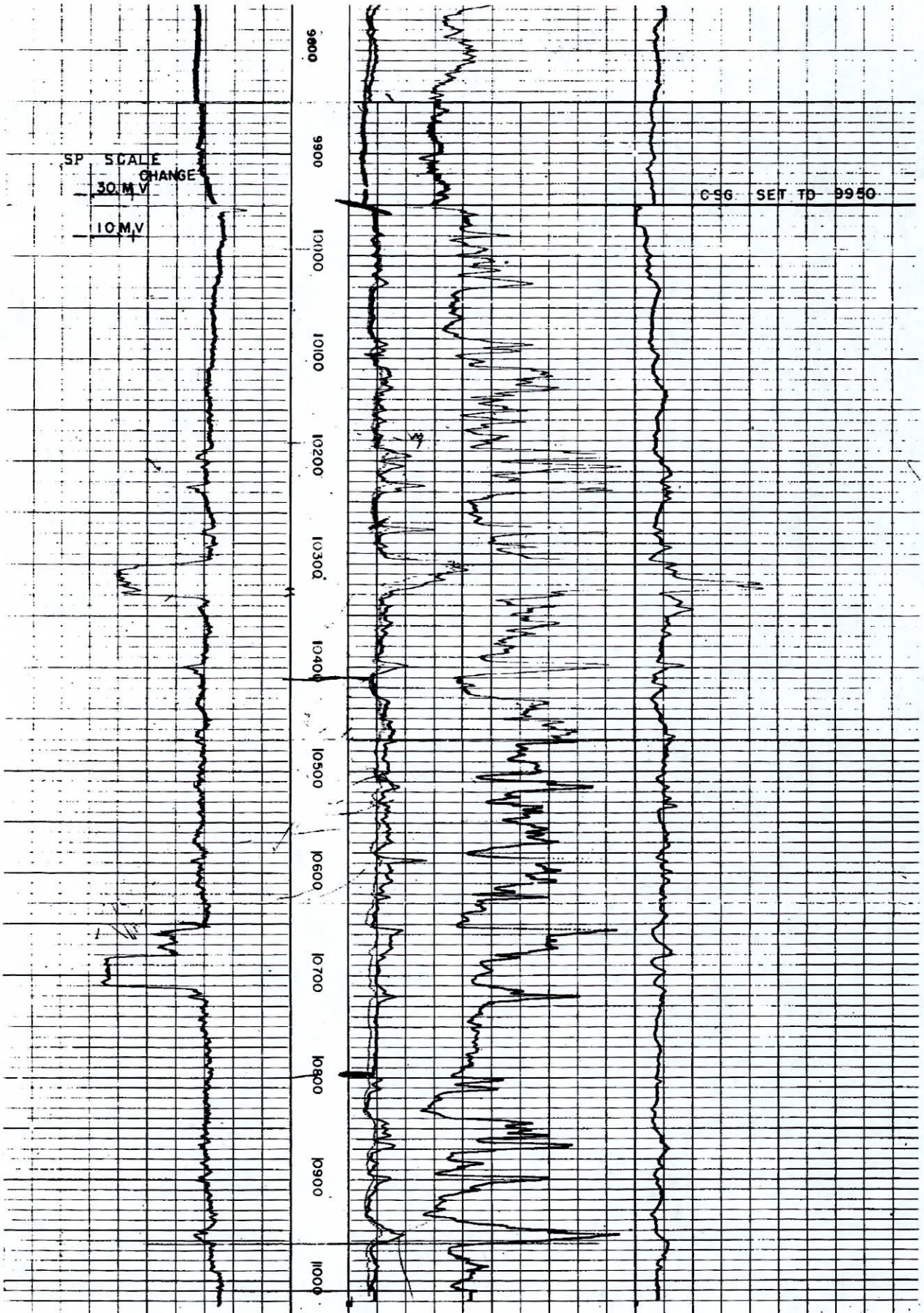

THE TEXAS CO.
V. J. KURZWEG ET AL NO. 1
WILDCAT

SCHL. T.D. 11010
DRLR'S 11011

COMPOSITE