



STATE OF LOUISIANA  
OFFICE OF CONSERVATION  
PERMIT TO DRILL FOR MINERALS

FEE: \$1264

SERIAL NO. 252182

Approval Date 01/10/2020

API 17069204760000

Expiration Date 07/07/2020

35 PARISH NATCHITOCHES  
7870 FIELD SAN MIGUEL CREEK  
60005 OPERATOR INDIGO MINERALS LLC  
600 TRAVIS  
SUITE 5500  
HOUSTON, TX 77002-0000

HORIZONTAL

SHREVEPORT DISTRICT

WELL NAME: HALL 22&27- 10- 10 H

NO. 001

LOCATION OF WELL: SEC 015 T 10N R 10W M W

705' FSL & 390' FEL OF SEC 15- T10N- R10W. PBHL: 500' FNL & 528' FEL OF SEC 27- T10N- R10W.

ZONE OR RESERVOIR OF PROPOSED COMPLETION: NON UNITIZED HAYNESVILLE

Measured Depth 2300

True Vertical Depth 15000

APPLICABLE OFFICE OF CONSERVATION ORDERS: 29B- 1,29E,29E- U,1165

RICHARD P. IEYOUB

CARRIE WIEBELT

COMMISSIONER OF CONSERVATION

ISSUING AUTHORITY

WELL FILE



JOHN BEL EDWARDS  
GOVERNOR

**State of Louisiana**  
**DEPARTMENT OF NATURAL RESOURCES**  
**OFFICE OF CONSERVATION**

THOMAS F. HARRIS  
SECRETARY

RICHARD P. IEYOUNG  
COMMISSIONER OF CONSERVATION

JANUARY 14, 2020

INDIGO MINERALS LLC  
600 TRAVIS  
SUITE 5500  
HOUSTON, TX 77002-0000

\*\*\* PERMIT TO DRILL \*\*\*

RE: NATCHITOCHES PARISH  
SAN MIGUEL CREEK FIELD  
HALL 22&27-10-10 H NO. 001  
SER NO. 252182

GENTLEMEN:

WE ARE ISSUING THE ATTACHED PERMIT TO DRILL FOR THE ABOVE REFERENCED WELL WITH THE UNDERSTANDING THAT YOU WILL COMPLY WITH THE FOLLOWING CONDITIONS:

FURNISH THE APPROPRIATE DISTRICT MANAGER WITH A DIRECTIONAL SURVEY AS PROOF THAT THE WELL HAS BEEN DRILLED IN COMPLIANCE WITH THE PROVISIONS OF LAC 43:XIX 135.C (STATEWIDE ORDER NO. 29-B)

COMPLETION OF SAID WELL CANNOT BE IN ANY POOL IN WHICH THE LOCATION DOES NOT CONFORM WITH THE PROVISIONS OF STATEWIDE ORDER NO. 29-E.

IN THE EVENT THE WELL IS A PRODUCER, NO ALLOWABLE WILL BE ASSIGNED UNTIL A SUITABLE UNIT HAS BEEN FORMED.

ALSO, THERE CAN BE NO COMPLETION IN ANY RESERVOIR WHICH IS NOT IN COMPLIANCE WITH THE PROVISIONS OF THE LOUISIANA OFFICE OF CONSERVATION ORDERS OF THE 1165 SERIES, FOR THE ABOVE-CAPTIONED FIELD AND PARISH.

NO ALLOWABLE WILL BE ASSIGNED SAID WELL UNLESS IN COMPLIANCE WITH THE ABOVE PROVISIONS.

PLEASE BE ADVISED THAT A PERMIT TO DRILL ISSUED BY THE OFFICE OF CONSERVATION DOES NOT RELIEVE THE OPERATOR OF THE OBLIGATION TO COMPLY WITH FEDERAL, LOCAL, OR OTHER STATE PERMITTING OR REGULATORY REQUIREMENTS.

YOURS TRULY,

RICHARD P. IEYOUNG  
COMMISSIONER OF CONSERVATION

*Carrie Wiebelt*

CARRIE WIEBELT

CW:PC  
CC: JACKIE DEVAL  
SHREVEPORT, DISTRICT MANAGER  
29B-1, 29E, 29E-U, SPECIAL ORDER

**RECEIVED**

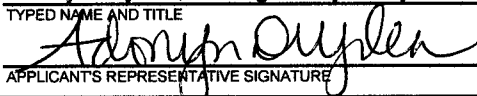
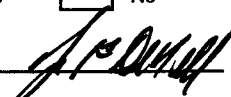
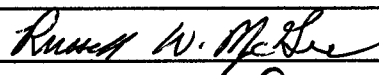
FORM MD-10-R-1 (Rev 08/2009)

JAN 07 REC'D 2020

STATE OF LOUISIANA  
OFFICE OF CONSERVATION FORM MD-10-R-1  
APPLICATION FOR PERMIT TO DRILL FOR MINERALS  
**TYPE ONLY - FILE IN DUPLICATE**

OFFICE OF CONSERVATION  
SHREVEPORT, LA.

(Print on Buff color paper)

OFFICE USE ONLY		OFFICE USE ONLY	
Bond Received, 29B-1, CCS1, 29-E, 29-EU 1165 series, horizontal		SERIAL NUMBER: 252/82	
Company Data		DATE OF APPLICATION: January 6, 2020	
OPERATOR: Indigo Minerals LLC		CODE NO. 60005	
ADDRESS: 4758 Hwy 171 Gloster, LA 71030			
Well Data			
PARISH: Natchitoches		CODE NO. 35	
FIELD: King Hill San Miguel Creek		CODE NO. 77870	
WELL NAME: Hall 22&27-10-10 H		Well No.: 001	
LOCATION: Section: 015 Township: 10N Range: 10W SHL: 705' FSL & 390' FEL of Sec 015, T10N, R10W PBHL: 500' FNL & 528' FEL of Sec 027, T10N, R10W			
PRODUCT: <input type="checkbox"/> OIL <input checked="" type="checkbox"/> GAS <input type="checkbox"/> OTHER		TYPE OF WELL	
Proposed Total Depth: 23,000 feet - Measured Depth		<input checked="" type="checkbox"/> New Well	
(and TVD, if applicable) 15,000 feet - True Vertical Depth		<input type="checkbox"/> Redrill <input type="checkbox"/> Repermit	
Application Fee: \$1,264.00 Check No.: email invoice		<input type="checkbox"/> Dual <input checked="" type="checkbox"/> Horizontal	
6 Month <input checked="" type="checkbox"/> 1 Year <input type="checkbox"/> #1207236		<input checked="" type="checkbox"/> Lease <input type="checkbox"/> Unit	
		<input type="checkbox"/> Straight <input type="checkbox"/> Directional	
PROPOSED ZONE OF COMPLETION: non-unitized Haynesville		Docket 20-3 & 20-4	
APPLICABLE CONSERVATION ORDERS: 29B, 29E, 1243 Series		29-B-1 1165 Series	
SERIAL NUMBER OF REDRILL OR REPERMIT (if applicable):			
CONTACT DATA			
SEND PERMIT TO: Adonya Dryden		<div style="border: 1px solid black; padding: 5px; text-align: center;">RECEIVED JAN - 9 2020 OFFICE OF CONSERVATION PERMIT SECTION</div>	
ADDRESS: same			
(if different than above)			
FOR ADDITIONAL INFORMATION, CONTACT: Adonya Dryden			
Phone No.: 318-770-0235			
APPLICANT			
SUBMITTED BY: Adonya Dryden, Sr Regulatory Analyst			
TYPED NAME AND TITLE			
SIGNATURE: 			
APPLICANT'S REPRESENTATIVE SIGNATURE			
OFFICE USE ONLY		OFFICE USE ONLY	
FINANCIAL SECURITY REQUIRED PRIOR TO PERMITTING: <input type="checkbox"/> Yes <input type="checkbox"/> No			
DISTRICT APPROVAL: 		DATE: 1-7-20	
ISSUED BY: 		DATE: 01/10/2020	
API No.: 17-069-20476		Exp.: 07/07/2020	
FORM MD-10-R-1 (Rev 08/2009)			

**STATE OF LOUISIANA  
OFFICE OF CONSERVATION**

January 8, 2020

TO: BATON ROUGE OFFICE  
FROM: SHREVEPORT DISTRICT OFFICE  
ATTN: PERMIT SECTION

Enclosed please find an application from Indigo Minerals LLC (60005)

for permit to drill their Hall 22&27-10-10 H #001  
*San Miguel Creek - FC 7870*  
King Hill Field, Natchitoches Parish.

Also enclosed please find:

Check No. Online Inv.# 1207236 in the amount of \$2,528.00(2 wells)

☒ Certified well location plat

☒ Affidavit of compliance

Applicable Office of Conservation Order Nos. 29-B-1, 29-E, 29-E-Unit & 1243-Series *1165 series*

Remarks & Recommendations:

\* No Non-Unitized HA wells permitted/producing within 2000'.

\* See letter dated 1/06/20 regarding a hearing held on 1/07/20 regarding this well.

*1165*  
Comply with 29-B-1, 29-E, 29-E-Unit & 1243-Series

*Docket 20-3 and 20-4  
Order 1165-K-9 also*

RECEIVED

JAN - 9 2020

OFFICE OF CONSERVATION  
PERMIT SECTION

BY: *[Signature]*

District Engineer

RECEIVED

JAN 07 REC'D 2020

OFFICE OF CONSERVATION  
SHREVEPORT, LA.

AFFIDAVIT OF COMPLIANCE  
STATEWIDE ORDER 29-B  
RULE LAC 43:XIX.103

WELL NAME AND NUMBER HALL 22&27-10-10 H #001

STATE OF LOUISIANA

PARISH/COUNTY OF DESOTO

BEFORE ME, the undersigned Notary Public, personally appeared Kodi Derouen, ("affiant") who on his oath did say that he is the Production Analyst (REPRESENTATIVE) of the INDIGO MINERALS LLC (COMPANY), authorized to do business in the state of Louisiana, and that said instrument was signed on behalf of said company, and affiant acknowledged that he executed the same as the free act and deed of said company.

**BY CHECKING THIS BOX, AFFIANT CERTIFIES:**

☐ The above referenced well will be drilled from an existing pad on the property in question, there will be no expansion to the existing drilling pad or access road(s) and therefore no notice to the surface owner is required pursuant to R.S. 30:28(I)(1)(f).

☒ A contractual relationship presently exists between the operator and the surface owner(s) of the subject well. As such, no pre-entry notice is required pursuant to 30:28(I)(1)(c).

☐ Surface owner was provided pre-entry notice on the \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_\_. No construction operations of a drilling location for the aforementioned well shall commence less than thirty (30) days after such date.

☐ No pre-entry notice required pursuant to R.S. 30:28(I)(1)(d). Please attach documentation of Commissioner's waiver.

The information in this affidavit meets the requirements of Statewide Order 29-B, Rule LAC 43:XIX.103 and Louisiana R.S. 30:28(I), demonstrating compliance with such order. By signing this document, I certify that the foregoing is true and correct to the best of my knowledge.

Thus done and sworn this 6th day of January, 2020

Signature: Kodi Derouen

Print Name: KODI DEROUEN

Title: PRODUCTION ANALYST

RECEIVED

JAN - 9 2020

OFFICE OF CONSERVATION  
PERMIT SECTION

Adonya Dryden  
Notary Public



ADONYA DRYDEN  
Notary Public  
State of Louisiana  
Caddo Parish  
Notary ID # 155064  
My Commission is for Life



January 6, 2020

**RECEIVED**

JAN 07 REC'D 2020

OFFICE OF CONSERVATION  
SHREVEPORT, LA.

Jackie DeVall  
Office of Conservation  
State Office Building  
1525 Fairfield Ave., Suite 668  
Shreveport, LA 71101-4388

Re: Indigo Minerals LLC – 60005  
Hall 22&27-10-10 H #1  
Hall 14&23-10-10 H #1  
King Hill Field – 4894  
Natchitoches Parish, Louisiana – 35  
Sec 015-T10N-R10W

7870  
← San Miguel Creek

Dear Jackie:

Please find attached the following forms for each of the above-referenced wells:

**Form MD 10-R-1 – Application for Permit to Drill (2 Originals)**  
**Certified Location Plat (2 Originals)**  
**Directional Plan (Original & copy)**  
**Affidavit of Compliance – Rule LAC 43:XIX.103 (Original & copy)**  
**\*Please email invoice for payment**

Application has been made to drill these two wells: one (1) cross unit horizontal well to serve as an alternate unit well for HA RA SUY and as the unit well for HA RA SUZ, and one (1) cross unit horizontal well to serve as an alternate unit well for HA RA SUY in the King Hill Field, Natchitoches Parish, Louisiana (Docket No. 20-5 and 20-6). Hearing is scheduled for January 7, 2020.

**Please email invoice for payment. Please call or email once the application is ready and I will pick it up to send to Baton Rouge via FedEx.** If you have any questions please contact me by phone at (832) 301-0982, office, (318) 751-3917, cell, or via email at [a.dryden@ndgo.com](mailto:a.dryden@ndgo.com).

Sincerely,

Adonya Dryden  
Sr Regulatory Analyst

**RECEIVED**

JAN - 9 2020

OFFICE OF CONSERVATION  
PERMIT SECTION

STATE OF LOUISIANA  
Office of Conservation, Department of Natural Resources  
1525 Fairfield Avenue ~ Room 668 ~ Shreveport, Louisiana 71101  
Telephone: 318-676-7585 ~ Fax: 318-676-7486

Operator Name      Indigo Minerals LLC  
Well Name & No.      Hall 22&27-10-10 H #1  
Field King Hill San Miguel Creek Sec/Twp/Rng      15/10N/10W  
Date      01/08/20      FC 7870

**IMPORTANT INFORMATION ~ READ CAREFULLY**

The permit-to-drill application for the proposed well recently submitted to this office has been forwarded to the Baton Rouge office for final review.

**CONSERVATION ENFORCEMENT SPECIALIST (CES) ASSIGNED TO THIS WELL IS:**

**Frank Moore, Hm 318-256-5228, Cell 318-452-4335**

Please contact this Agent at least 12 hours prior to spud. If no answer, please leave a message including operator name, well name & number, and contact person & phone number(s). **Note:** No well shall spud-in prior to issuance of a permit Serial Number.

Additionally, the CES must be provided a **weekly activity report** on the well (usually on Monday or at a time prescribed by CES) and specifically contacted prior to surface casing pressure test, surface casing re-test, intermediate casing pressure test, reaching total depth, production casing pressure test, production well test, closing of reserve pit, and plugging & abandonment. **Note:** In the event you use a well site consultant or a drilling contractor, please ensure that they are furnished a **copy of these instructions**.

**STATEWIDE ORDER NO. 29-B REQUIREMENTS**

A well sign shall be posted at the drilling rig and subsequently on the well showing: Operator name, Well Name and Number, Serial Number, Parish, and Section-Township-Range. Field name may also be included on the well sign. A legible well sign must be maintained until the well is plugged & abandoned. If a completion is made, a sign shall also be maintained at the Tank Battery.

Surface casing shall be set to a minimum depth of **1800'** provided no danger of pollution to freshwater sources (USDW) exists. If surface casing is to be set deeper than 2,400', a written request shall be made to the District Manager prior to spud of the well addressing all special drilling and primary cementing considerations. **Note:** If downhole disposal of reserve pit fluids is planned, additional surface casing may be required. Refer to fourth paragraph of enclosed Freshwater Protection Letter (enclosed only if applicable).

LAC 43:XIX.111 has specific requirements regarding **Diverter Systems and Blowout Preventers**. Please note that subject regulation will be strictly enforced resulting in the issuance of a **Civil Penalty** for any violation. Additionally, the most recent BOP pressure test date must be provided to the CES with your weekly activity report.

Sufficient primary cement shall be used to fill the annular space behind the intermediate and production casing strings to such a point as local conditions require to protect the producing formation and all other oil & gas formations occurring above. **Note:** A tail slurry **other** than neat Class H (or Class A/Type I as applicable) shall first be approved by the District Manager. Any cement slurry with a density less than **12.4 ppg** or a yield of more than **2.0 cu ft/sk** shall also first be approved by the District Manager.

Prior authorization is required for Deepening, Sidetrack, Perforating, Plugback, Squeeze Cementing, Stimulation including Acidizing and Hydraulic Fracturing, Plug & Abandon, and other work noted in LAC 43:XIX.105.A. An approved Work Permit, Form DM-4R, must be obtained **prior** to commencement of **any such work**.

**REQUIRED FORMS**

**Well History and Work Resume Report (Form WH-1): PRELIMINARY WH-1:** Submit two (2) typewritten copies within **20 days after reaching total depth**. **FINAL WH-1:** Submit two (2) typewritten copies within **20 days after completion date** of well or at plug & abandonment if dry hole.

**Report of Proof of Apparent Deviation (Form AD):** Submit two (2) typewritten copies within **20 days after reaching total depth**. **Note:** If a Directional Survey is required by rule, submit two (2) **certified** copies within **20 days after reaching total depth**.

**Electric Logs:** Effective January 1, 2014, **ALL electric logs, when run, shall be submitted in electronic format to the Office of Conservation in Baton Rouge** (Please contact the Geological Division in Baton Rouge for filing instructions).

**Completion Report (Form COMP):** Submit two (2) typewritten copies within **20 days after completion date** of well, i.e. date well is turned to tank (oil) or turned to sales (gas).

**Oilfield Waste Disposition (Form ENG-16):** Submit two (2) typewritten copies **immediately** after the reserve pit is closed. **Note:** The reserve pit shall be closed no later than **six (6) months after reaching total depth**.

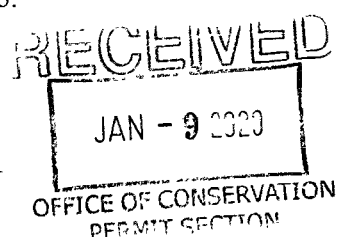
An **original signature** is required on at least one (1) copy of the aforementioned forms.

**FAILURE TO COMPLY MAY RESULT IN THE ASSESSMENT OF A CIVIL PENALTY PER LOUISIANA R.S. 30:18.**

Should you have any questions or desire clarification on any point, please call 318/676-7585.

Jackie DeVall, P.E.  
Shreveport District Manager

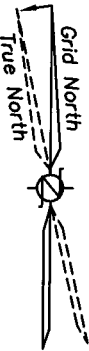
Marie Maranto  
Petroleum Analyst-Supervisor



1. All Bearings, Distances and Coordinates shown hereon are based on the Louisiana State Plane Coordinate System, N.A.D. 27 Datum (North Zone)  
2. Ownership information provided by others.  
3. Lease lines shown are drawn from record information provided by others.  
4. No residential or commercial structures exist within a 500' radius of the Surface Location.  
5. This well is not subject to the provisions of Order U-HS.

**STANGER**  
SURVEYING TYLER, LLC  
1595 E. Grande Blvd.  
Tyler, Texas 75703  
(903) 534-0174

N.A.D. 1927



Note: This plat is not a property boundary survey and as such does not comply with the "Minimum Standards for Property Boundary Surveys" as adopted by the Louisiana Professional Engineering and Land Surveying Board; it is however in compliance with statewide order 29-B and 29-E. (Title 43 of the LAC) in regards to location plat requirements.

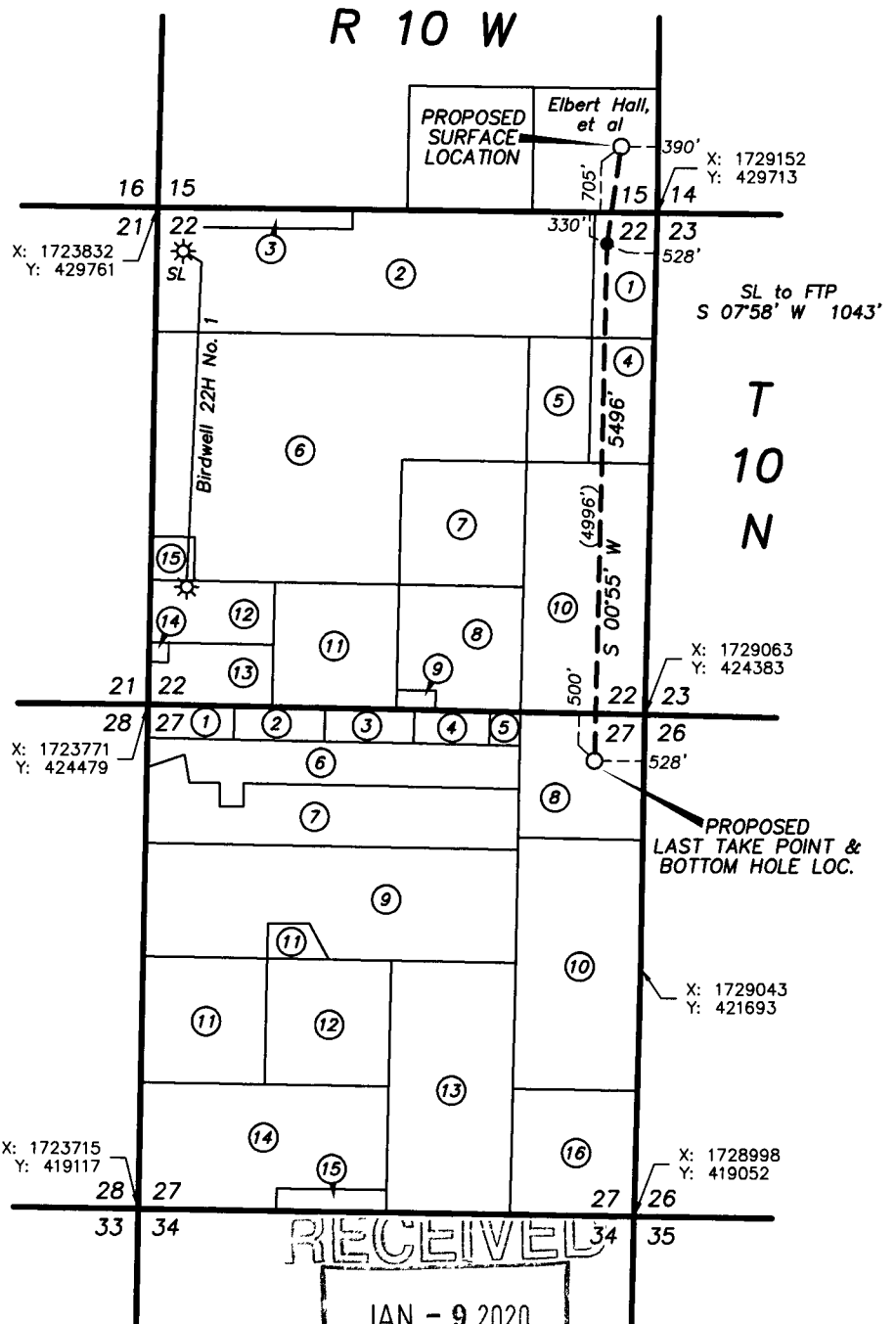
**RECEIVED**

JAN 07 REC'D 2020

OFFICE OF CONSERVATION  
SHREVEPORT, LA.

Tract	Participant
1	Sherman S. Shaw, et al
2	Wilmer M. Birdwell, et ux
3	Doris V. Bowers
4	Critt Hall Wells
5	Ulysses Hall, Jr.
6	Our Lady of Guadalupe, Inv., LLC
7	Hurt Forest Products, Inc
8	Sam H. Steadman, II
9	Little Flowers Enterprises, LLC
10	William D. Durr, et ux
11	GEP Haynesville, LLC, et al
12	Donald Smith, et ux
13	Little Flowers Enterprises, LLC
14	Connie M. Lirette
15	Stephen L. Lirette, et ux

Tract	Participant
1	Heirs of Donald Roy Durr
2	Vicki Durr Gray
3	Lynda Durr Roberts
4	Heirs of Ruben Leneal Durr
5	William & Sonja Durr Living Trust
6	Bruce Johnson, et al
7	Michael Bruce
8	Evans Family, LLC
9	Amber W. Carothers, et al
10	Sue K. Elliott, et al
11	Stephen A. Champagne, et al
12	Michael Bruce
13	Max Williams
14	Steadman's Rock Creek Farm, LLC
15	Samuel H. Steadman, II
16	Fia Timber Growth & Value, LLC



**PROPOSED SURFACE LOCATION**

STATE PLANE COORDINATES - LA NORTH ZONE - 1701:  
NAD 27 X: 1728763 Y: 430421  
NAD 83 X: 3009549 Y: 491127  
GEOGRAPHIC-NAD 27: LAT: 31°50'49.06" LON: -93°22'24.70"  
GEOGRAPHIC-NAD 83: LAT: 31°50'49.66" LON: -93°22'25.32"  
NAT. GROUND ELEV. 175'  
CALLS: 705' FSL, 390' FEL OF SECTION 15, T 10 N - R 10 W

**PROPOSED FIRST TAKE POINT**

STATE PLANE COORDINATES - LA NORTH ZONE - 1701:  
NAD 27 X: 1728619 Y: 429388  
NAD 83 X: 3009405 Y: 490094  
GEOGRAPHIC-NAD 27: LAT: 31°50'38.83" LON: -93°22'26.28"  
GEOGRAPHIC-NAD 83: LAT: 31°50'39.42" LON: -93°22'26.90"  
CALLS: 330' FNL, 528' FEL OF SECTION 22, T 10 N - R 10 W

**PROPOSED LAST TAKE POINT & BOTTOM HOLE LOC.**

STATE PLANE COORDINATES - LA NORTH ZONE - 1701:  
NAD 27 X: 1728532 Y: 423893  
NAD 83 X: 3009317 Y: 484599  
GEOGRAPHIC-NAD 27: LAT: 31°49'44.44" LON: -93°22'26.78"  
GEOGRAPHIC-NAD 83: LAT: 31°49'45.03" LON: -93°22'27.40"  
CALLS: 500' FNL, 528' FEL OF SECTION 27, T 10 N - R 10 W

I, John R. Nowlin, Registered Professional Land Surveyor, do hereby certify that the above plat is true and correct to the best of my knowledge.

Registered Professional Land Surveyor No. 4801  
State of Louisiana



**WELL LOCATION PLAT**  
**INDIGO MINERALS LLC**  
**HALL 22&27-10-10H NO. 1**  
**NATCHITOCHES PARISH, LOUISIANA**  
**SCALE: 1" = 2000'**

T190495/HALL 22&27-10-10 H 1