



STATE OF LOUISIANA
DEPARTMENT OF CONSERVATION AND
ENERGY

FEE: \$1264

SERIAL NO. 255395

Approval Date 11/05/2025

API 17031275250000

Expiration Date 05/03/2026

16 PARISH DE SOTO
1408 FIELD BELLE BOWER
E1152 OPERATOR EXPAND OPERATING LLC
6100 N WESTERN AVENUE
OKLAHOMA CITY, OK 73118-

HORIZONTAL

SHREVEPORT DISTRICT

WELL NAME: HA RA SUO;WELLS 22&15-13-16HC

NO. 001-ALT

LOCATION OF WELL: SEC 022 T 13N R 16W M W

227' FSL & 2160' FEL SEC 22, T13N-R16W. PBHL: 330' FNL & 1211' FWL SEC 15, T13N-R16W
(BETHANY LONGSTREET FIELD).

ZONE OR RESERVOIR OF PROPOSED COMPLETION: HAYNESVILLE

Measured Depth 27000

True Vertical Depth 14000

APPLICABLE DCE ORDERS:

29B-1

DUSTIN H. DAVIDSON

ANDREW ROUSSELL

SECRETARY

ISSUING AUTHORITY

WELL FILE

JEFF LANDRY
GOVERNOR



DUSTIN H. DAVIDSON
SECRETARY

DEPARTMENT OF CONSERVATION AND ENERGY

NOVEMBER 5, 2025

EXPAND OPERATING LLC
6100 N WESTERN AVENUE
OKLAHOMA CITY, OK 73118-

*** PERMIT TO DRILL ***

RE: DE SOTO PARISH
BELLE BOWER FIELD
HA RA SUO: WELLS 22&15-13-16HC NO. 001-ALT
SER NO. 255395

DEAR SIR OR MADAM:

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)

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 DEPARTMENT OF CONSERVATION AND ENERGY DOES NOT RELIEVE THE OPERATOR OF THE OBLIGATION TO COMPLY WITH FEDERAL, LOCAL, OR OTHER STATE PERMITTING OR REGULATORY REQUIREMENTS.

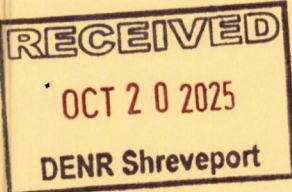
YOURS TRULY,

DUSTIN H. DAVIDSON
SECRETARY

A handwritten signature in black ink, appearing to read "Andrew Roussell".

ANDREW ROUSSELL

AR:VAB
CC: PATRICK RALEY
SHREVEPORT, DISTRICT MANAGER
29B-1



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

(Print on Buff color paper)

OFFICE USE ONLY

Bond Received 298-1, cc 51, cc 53, horizontal

OFFICE USE ONLY

SERIAL NUMBER: 255395

Company Data

DATE OF APPLICATION: October 17, 2025

OPERATOR: EXPAND OPERATING LLC

CODE NO. E1152

ADDRESS: 6100 N WESTERN AVENUE

OKLAHOMA CITY, OK 73118

Well Data

PARISH: DESOTO

CODE NO. 16

FIELD: BELLE BOWER

CODE NO. 1408

WELL NAME: HA RA SUO; WELLS 22&15-13-16 HC

Well No.: 001-ALT

LOCATION: Section: 22 Township: 13N Range: 16W

LOCATION
DESCRIPTION:SL: 227' FSL & 2160' FEL OF SEC 22, T13N-16W
PBHL: 330' FNL & 1211' FWL OF SEC 15, T13N-R16W (BETHANY LONGSTREET FIELD)PRODUCT: ☐ OIL ☒ GAS ☐ OTHER

TYPE OF WELL

☒ New Well
☐ Redrill
☐ Dual
☐ Lease
☒ Unit☐ Repermit
☐ Straight
☐ Directional
☒ Horizontal
☐ SPC Plan
(on water)

Proposed Total Depth: 27,000 feet - Measured Depth

(and TVD, if applicable) 14,000 feet - True Vertical Depth

Application Fee: \$1,264.00 Check No.: INVOICE

6 Month ☒ 1 Year ☐

1315809

PROPOSED ZONE OF COMPLETION: HAYNESVILLE

APPLICABLE CONSERVATION ORDERS: 29-B-1, 312-G-45 & 289-R-269 EFFECTIVE 11/12/24

SERIAL NUMBER OF REDRILL OR REPERMIT (if applicable):

CONTACT DATA

SEND PERMIT TO: SARA OBERLANDER

ADDRESS:

(if different than above)

FOR ADDITIONAL
INFORMATION, CONTACT:

SARA OBERLANDER

Phone No.: 318-716-7168

RECEIVED

NOV - 4 2025

OFFICE OF CONSERVATION
PERMIT SECTION

APPLICANT

SUBMITTED BY: SARA OBERLANDER, REGULATORY SPECIALIST

TYPED NAME AND TITLE

SIGNATURE:

Sara Oberlander

APPLICANT'S REPRESENTATIVE SIGNATURE

OFFICE USE ONLY

OFFICE USE ONLY

FINANCIAL SECURITY REQUIRED PRIOR TO PERMITTING:

☐ Yes☐ No

DISTRICT APPROVAL:

ISSUED BY:

API No.:

DATE: 10/29/2025

DATE: 11/05/2025

Exp.: 5/03/2026

**STATE OF LOUISIANA
OFFICE OF ENFORCEMENT**

OCTOBER 30, 2025

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

Enclosed please find an application from EXPAND OPERATING LLC (E1152)

for permit to drill their HA RA SUO; WELLS 22&15-13-16 HC #1-ALT

BELLE BOWER Field, DESOTO Parish.

Also enclosed please find:

Check No. ONLINE Inv# 1315809 \$3,792.00 (3 WELLS)

X Certified well location plat

X Affidavit of compliance

Applicable Office of Conservation Order No. 312-G-45 & 289-R-269 EFF 11/12/24, 29B-1

Remarks & Recommendations:

Well approved as an alternate unit well at an exceptional location for HA RA SU96 in the Bethany-Longstreet Field under Order 289-R-269 & for HA RA SUO in the Belle Bower Field under Order 312-G-45, effective 11/12/2024. Order approves three (3) alternate cross-unit wells for HA RA SUUU in the Bethany-Longstreet Field & for HA RA SUO in the Belle Bower Field.

Similar location shown on order to that of the attached plat location. Not subject to Order U-HS. All perforation points further than 330' from unit boundaries.

HA RA SU96 in the Bethany-Longstreet Field formed under Order 289-R-100. HA RA SUO in the Belle Bower Field formed under Order 312-G-8.

Unit well for HA RA SU96 in the Bethany-Longstreet Field is SN-241621. Unit well for HA RA SUO in the Belle Bower Field is SN-240458. Operator is simultaneously submitting two (2) additional permits for HA RA SU96 in the Bethany-Longstreet Field under Order 289-R-269 & for HA RA SUO in the Belle Bower Field under Order 312-G-45. Operator has zero (0) remaining permits for HA RA SU96 in the Bethany-Longstreet Field under Order 289-R-269 & for HA RA SUO in the Belle Bower Field under Order 312-G-45.

Adheres to all rules and regulations in regards to boundary and other parameters as established in Orders 289-R & 312-G and subsequent revisions in series as well as 29-B-1 rules with allowance to approved exceptional well spacing based on Docket #24-299 thru 300.

Patrick Raley
District Engineer

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OFFICE OF CONSERVATION
PERMIT SECTION

FORM AFLN-1 - AFFIDAVIT OF COMPLIANCE - STATEWIDE ORDER 29-B

HA RA SUO; WELLS 22+15-13-16 HC 001-AVT
WELL NAME AND NUMBER _____

STATE OF LOUISIANA _____

PARISH/COUNTY OF CADDO _____

BEFORE ME, the undersigned Notary Public, personally appeared _____
SARA OBERLANDER

(“affiant”) who on their oath did say that they are the _____ REGULATORY SPECIALIST (REPRESENTATIVE) of the
EXPAND OPERATING 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.

RULE LAC 43:XIX.103.A.1 – Pre-Entry Notice

BY CHECKING THIS BOX, AFFIANT CERTIFIES:

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

RULE LAC 43:XIX.103.A.3 – Natural Gas Management

BY CHECKING THIS BOX, AFFIANT CERTIFIES:

- ☒ The operator will be able to connect the well to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the volume of natural gas the operator anticipates the well will produce.
- ☐ The operator will shut-in the well until a natural gas gathering system is available.
- ☐ The operator will evaluate if the well is a candidate for flaring based on economic hardship.
- ☐ The operator will comply with the attached gas capture plan (ensure attachment provided).
- ☐ The well is in a recognized stripper area and as such is exempt from LAC 43:XIX.103.A.3.

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 8 day of October, 2025:

Signature: Sara Oberlander

Print Name: _____ SARA OBERLANDER

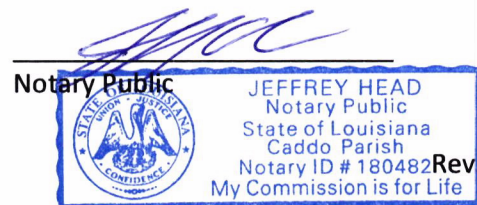
Title: _____ REGULATORY SPECIALIST

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NOV - 4 2025

AFLN-1

OFFICE OF CONSERVATION
PERMIT SECTION



Rev. 01/2024

Prepared October 6, 2025 as follows:
SURFACE LOCATION being 227' from the South Line and 2160' from the East Line of Section 22, located in Section 22, T13N-R16W.
PROPOSED BOTTOM HOLE LOCATION/PLPP to be 330' from the North Line and 1211' from the West Line of Section 15, located in Section 15, T13N-R16W, DeSoto Parish, Louisiana.

Producing Lateral Length			
Section	Unit	Length	Percentage
22	HA RA SUO	4,691.29'	48.07%
15	HA RA SU96	5,067.33'	51.93%
Total:		9,758.62'	100.00%

NOTE: This plat is not a property boundary survey and as such does not comply with the "Standards of Practice 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 Louisiana Administrative Code)

There are no residential or commercial structures, not owned by the applicant, his lessor, or other predecessor in interest, within a 500' radius of the proposed location as of October 6, 2025.

Note: No Perforation Point to be located closer than 330' from any unit boundary other than the common unit boundary between HA RA SU96 & HA RA SUO. PUPP to be no closer than 330' from the South line of Section 22. PLPP to be no closer than 330' from the North line of Section 15.

Note: This well is not subject to the provisions of Order U-HS.

PP = PENETRATION POINT
PUPP = PROPOSED UPPER PERFORATION POINT
IP = INFLECTION POINT
PI PP = PROPOSED LOWER PERFORATION POINT

X = 1,537,623' (NAD27 La N)
Y = 522,593'
LAT. 32.094599° N (NAD27)
LONG. 93.993132° W
X = 2,818,408' (NAD83/86 La N)
Y = 583,302'
LAT. 32.094763° N (NAD83/86)
LONG. 93.993320° W
ELEV. +274.78' NAVD88

PENETRATION POINT
X = 1,536,539' (NAD27 La N)
Y = 522,515'
LAT. 32.094346° N (NAD27)
LONG. 93.996628° W

**PROPOSED UPPER
PERFORATION POINT**
X = 1,536,542' (NAD27 La N)
Y = 523,116'
LAT. 32.095995° N (NAD27)
LONG. 93.996643° W

INFLECTION POINT #1
X = 1,536,566' (NAD27 La N)
Y = 527,161'
LAT. 32.107117° N (NAD27)
LONG. 93.996747° W

INFLECTION POINT #2
X = 1,535,802' (NAD27 La N)
Y = 528,165'
LAT. 32.109847° N (NAD27)
LONG. 93.999260° W

PROPOSED BOTTOM HOLE LOCATION/PLPP
X = 1,535,887' (NAD27 La N)
Y = 532,615'
LAT. 32.122083° N (NAD27)
LONG. 93.999184° W
X = 2,816,673' (NAD83/86 La N)
Y = 593,325'
LAT. 32.122247° N (NAD83/86)
LONG. 93.999372° W

PROPOSED BOTTOM HOLE
LOCATION/PLPP:
Expand Operating, LLC-
HA RA SUO; WELLS 22&15-13-16HC
NO. 1 ALT WELL

R 16 W
Sec. 10

Sec. 11

SE Corner of
Approved HA
RA SUX Unit

Red Oak Timber Co., L.L.C.
Aubrey Wayne Smith, et ux
Ray Steven Osborne, Jr., et ux
Gladen Gail Smith, et ux
David A. Harborth
Ernest N. Blalock
S & S Ministry, Inc.
Thomas Michael Mitchell
Red Oak Timber Co., L.L.C.

Sec. 16

Sec. 15

Sec. 14

Miller Land Co., L.T.D.

HA RA SU96
Order: 289-R-100

HA RA SUO
Order: 312-G-8

NW Corner of
Approved HA
RA SUO Unit

NE Corner of
Approved HA
RA SUO Unit

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13
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Sec. 21

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OCT 29 2025
SHREVEPORT, LA

Sec. 23


Sec. 22

Word Holley Wells, et al

SW Corner of
Approved HA
RA SUO Unit.

Sec. 28

10/16/2025
DANIELLE B. MCMATH
License No. 5297
PROFESSIONAL
LAND SURVEYOR


Danielle B. McMath
Professional Land Surveyor
Registration No. 5297

SURFACE LOCATION:
Expand Operating, LLC-
HA RA SUO; WELLS 22&15-13-16HC
NO. 1 ALT WELL

SE Corner of
Approved HA
RA SUO Unit

Sec. 26

Sec. 27

WELL LOCATION PLAT
HA RA SUO;WELLS 22&15-13-16HC
NO. 1 ALT WELL
EXPAND OPERATING, LLC
SITUATED IN
SECTION 22, T13N-R16W
DE SOTO PARISH, LOUISIANA

C. H. Fenstermaker
& Associates, L.L.C.
135 Regency Sq.
Lafayette, LA 70508
Ph. 337-237-2200
Fax. 337-232-3299

REVISIONS

DRAWN BY:DT	PROJ. MGR.:D
DATE:10/06/2025	
JOB#:2258842.01	SHEET 1 OF 1