API NUMBER: 093 25280

Oil & Gas

OKLAHOMA CORPORATION COMMISSION **OIL & GAS CONSERVATION DIVISION** P.O. BOX 52000 **OKLAHOMA CITY, OK 73152-2000** (Rule 165:10-3-1)

Approval Date: 06/15/2022 12/15/2023 **Expiration Date:**

PERMIT TO DRILL

WELL LOCATION:	Section:	36	Township:	20N	Range:	15W	County:	MAJOR		
SPOT LOCATION:	NE NW	NE	NW	FEE	ET FROM QUARTER:	FROM	NORTH	FROM	WEST	
					SECTION LINES:		250		1695	

LIAM 2015 Well No: 2-36H Well will be Lease Name: 250 feet from nearest unit or lease boundary.

SANDRIDGE EXPLORATION & PRODUCTION Operator Name: Telephone: 8177063891 OTC/OCC Number: 22281 0

SANDRIDGE EXPLORATION & PRODUCTION LLC

1 E SHERIDAN AVE #500

Horizontal Hole

OKLAHOMA CITY. 73104-2496 OK

STATE OF OKLAHOMA, COMMISSIONERS OF THE LAND OFFICE

204 N. ROBINSON, SUITE 900

OKLAHOMA CITY OK 73105

Formation(s) (Permit Valid for Listed Formations Only):

Name Code Depth MISSISSIPPIAN 359MSSP 9055

Spacing Orders: 705632 Location Exception Orders: No Exceptions Increased Density Orders: No Density

Special Orders: No Special Pending CD Numbers: 202102865 Working interest owners' notified:

202201561

Ground Elevation: 1673 Surface Casing: 800 Depth to base of Treatable Water-Bearing FM: 320 Total Depth: 14000

Deep surface casing has been approved

Under Federal Jurisdiction: Yes Fresh Water Supply Well Drilled: No Surface Water used to Drill: Yes Approved Method for disposal of Drilling Fluids: D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 22-38383

H. (Other) SEE MEMO

PIT 1 INFORMATION

Type of Pit System: CLOSED Closed System Means Steel Pits

Type of Mud System: WATER BASED

Chlorides Max: 8000 Average: 5000

Is depth to top of ground water greater than 10ft below base of pit? Y

Within 1 mile of municipal water well? N Wellhead Protection Area? N

Pit located in a Hydrologically Sensitive Area. Category of Pit: C

Liner not required for Category: C

Pit Location is: AP/TE DEPOSIT Pit Location Formation: TERRACE

PIT 2 INFORMATION

Type of Pit System: CLOSED Closed System Means Steel Pits

Type of Mud System: OIL BASED Chlorides Max: 300000 Average: 200000

Is depth to top of ground water greater than 10ft below base of pit? Y

Within 1 mile of municipal water well? N Wellhead Protection Area? N

Pit located in a Hydrologically Sensitive Area. Category of Pit: C

Liner not required for Category: C

Pit Location is: AP/TE DEPOSIT Pit Location Formation: TERRACE

HORIZONTAL HOLE 1

Section: 36 Township: 20N Range: 15W Meridian: IM Total Length: 4900

County: DEWEY Measured Total Depth: 14000

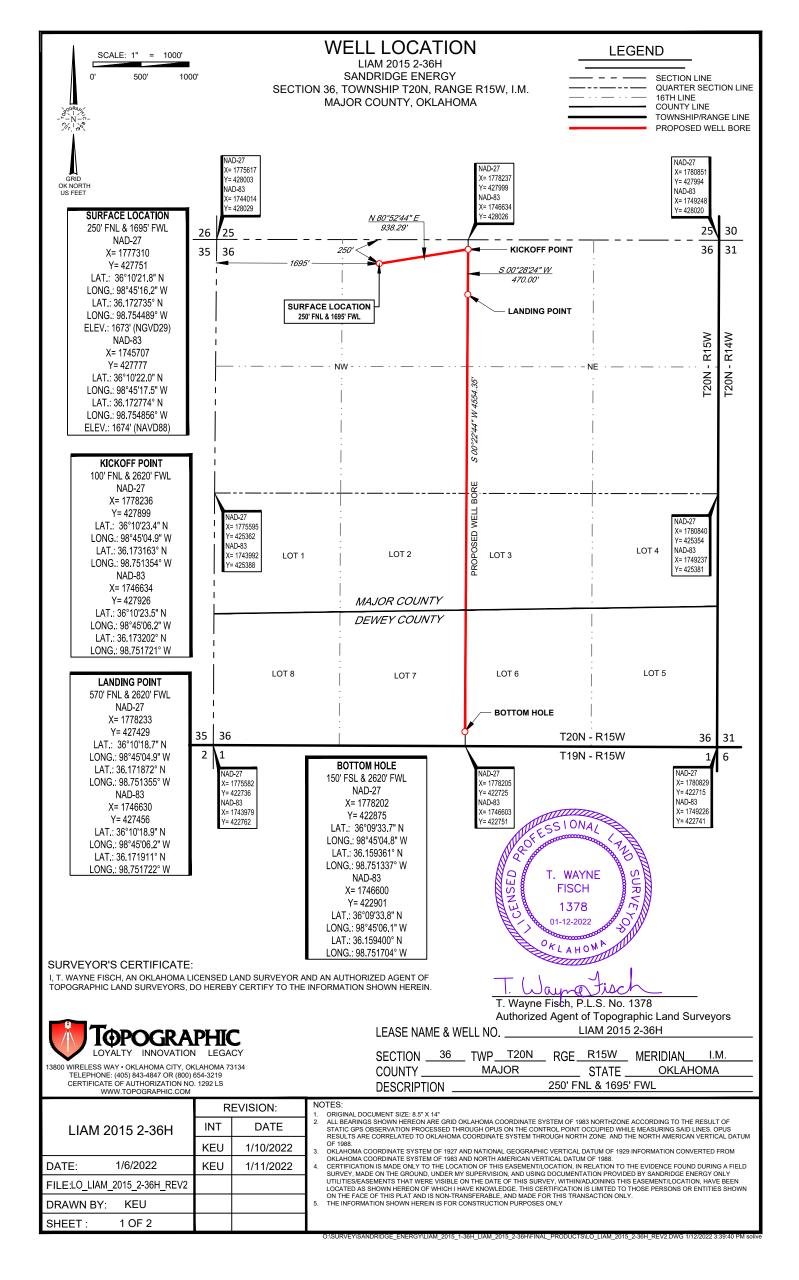
Spot Location of End Point: SE SE SE SW True Vertical Depth: 9194

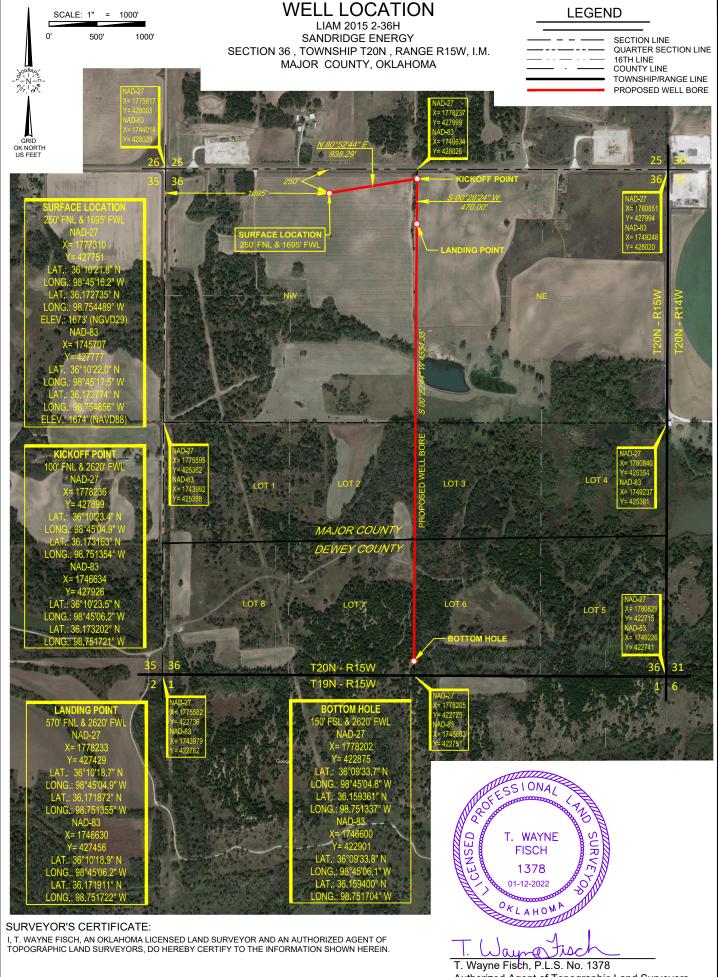
Feet From: SOUTH

1/4 Section Line: 150

End Point Location from
Lease,Unit, or Property Line: 150

NOTES:	
Category	Description
DEEP SURFACE CASING	[6/13/2022 - GC2] - APPROVED; NOTIFY OCC FIELD INSPECTOR IMMEDIATELY OF ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON ANY CONDUCTOR OR SURFACE CASING
HYDRAULIC FRACTURING	[6/13/2022 - GC2] - OCC 165:10-3-10 REQUIRES:
	1) NOTICE SHALL BE GIVEN AT LEAST 5 BUSINESS DAYS PRIOR TO COMMENCEMENT OF HYDRAULIC FRACTURING OPERATIONS ON A HORIZONTAL WELL TO OPERATORS PRODUCING WELLS WITHIN 1 MILE OF THE COMPLETION INTERVAL OF THE SUBJECT WELL. THE NOTICE TO SUCH OPERATORS SHALL CONTAIN THE INFORMATION IN FORM 6000NOO. IF THE HYDRAULIC FRACTURING OPERATIONS SCHEDULE CHANGES AFTER NOTICE HAS BEEN PROVIDED, RESULTING IN A DELAY OF OPERATIONS OF MORE THAN 5 DAYS FROM THE INITIAL NOTICE, NEW NOTICE IS REQUIRED TO BE GIVEN;
	2) NOTICE WILL BE GIVEN TO THE OCC CENTRAL OFFICE AND LOCAL DISTRICT OFFICES AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF HYDRAULIC FRACTURING OPERATIONS. FORM 6000NHF SHALL BE USED AND IS FOUND AT THIS LINK: OCCEWEB.COM/OG/OGFORMS.HTML; AND,
	3) THE CHEMICAL DISCLOSURE OF HYDRAULIC FRACTURING INGREDIENTS FOR ALL WELLS IS TO BE REPORTED TO FRACFOCUS WITHIN 60 DAYS AFTER THE CONCLUSION OF HYDRAULIC FRACTURING OPERATIONS, FOUND AT FRACFOCUS.ORG
INTERMEDIATE CASING	[6/13/2022 - GC2] - DUE TO THE KNOWN POTENTIAL RISK OF ENCOUNTERING AN OVER- PRESSURED ZONE IN THE MORROW SERIES IN THIS AREA, THE TECHNICAL MANAGER RECOMMENDS SETTING AN INTERMEDIATE STRING OF CASING IMMEDIATELY ABOVE THE MORROW SERIES
MEMO	[6/13/2022 - GC2] - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT
PENDING CD - 202102865	[6/15/2022 - GB1] - (I.O.) 36-20N-15W X705632 MSSP COMPL INT NCT 150' FNL, NCT 150' FSL, NCT 1500' FEL NO OP NAMED REC 5/25/2022 (MILLER)
PENDING CD - 202201561	[6/15/2022 - GB1] - 36-20N-15W X705632 MSSP 1 WELL NO OP NAMED REC 5/25/22 (MILLER)
SPACING - 705632	[6/15/2022 - GB1] - (640)(HOR) 36-20N-15W VAC 102031 CRLM VAC 174209 MSSLM VAC 667149 MSSP S2 EST MSSP COMPL INT NCT 660' FB (COEXIST SP 667149 MSSP N2)





TOPOGRAPHIC

LOYALTY INNOVATION LEGACY

Authorized Agent of Topographic Land Surveyors LIAM 2015 2-36H LEASE NAME & WELL NO.

SECTION 36 TWP T20N _ RGE<u>R15W</u> MERIDIAN_ MAJOR OKLAHOMA COUNTY STATE 250' FNL & 1695' FWL **DESCRIPTION**

LOTALIT MINOVALION		01							
13800 WIRELESS WAY • OKLAHOMA CITY, OKLAHOMA 73134 TELEPHONE: (405) 843-4847 OR (800) 654-3219 CERTIFICATE OF AUTHORIZATION NO. 1292 LS WWW.TOPOGRAPHIC.COM									
	REVISION:								
LIAM 2015 2-36H	INT	DATE	1. 2.						
	KEU	1/10/2022	3.						
DATE: 1/6/2022	KEU	1/11/2022	4.						
FILE:LO_LIAM_2015_2-36H_REV2									
DRAWN BY: KEU			5.						
SHEET: 2 OF 2									

NOTES:

- ITES:

 ORIGINAL DOCUMENT SIZE: 8.5" X 14"

 ALL BEARINGS SHOWN HEREON ARE GRID OKLAHOMA COORDINATE SYSTEM OF 1983 NORTH ZONE ACCORDING TO THE RESULT OF STATIC GPS OBSERVATION PROCESSED THROUGH OPUS ON THE CONTROL POINT OCCUPIED WHILE MEASURING SAID LINES. OPUS RESULTS ARE CORRELATED TO OKLAHOMA COORDINATE SYSTEM THROUGH NORTH ZONE AND THE NORTH AMERICAN VERTICAL DATUM OF 1988.

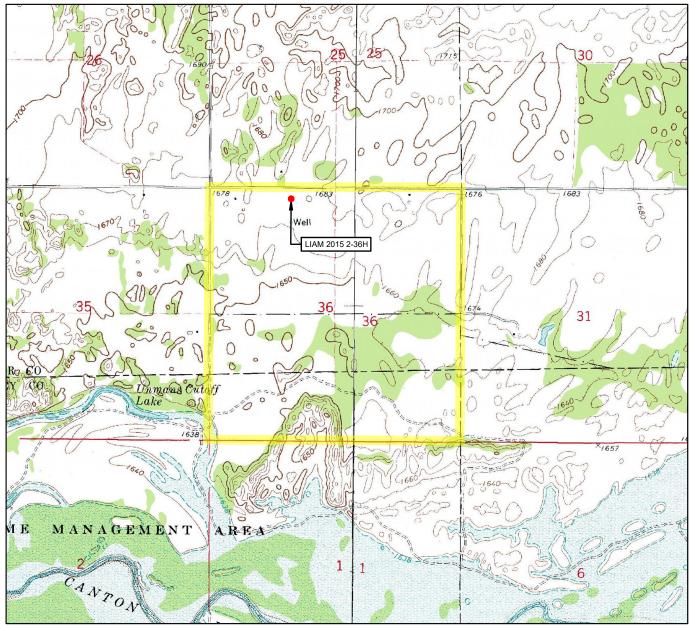
 OKLAHOMA COORDINATE SYSTEM OF 1927 AND NATIONAL GEOGRAPHIC VERTICAL DATUM OF 1929 INFORMATION CONVERTED FROM OKLAHOMA COORDINATE SYSTEM OF 1983 AND NORTH AMERICAN VERTICAL DATUM OF 1988.

 OKLAHOMA COORDINATE SYSTEM OF 1983 AND NORTH AMERICAN VERTICAL DATUM OF 1980.

 CERTIFICATION IS MADE ONLY TO THE LOCATION OF THIS EASEMENT/LOCATION, IN RELATION TO THE EVIDENCE FOUND DURING A FIELD SURVEY, MADE ON THE GROUND, UNDER MY SUPERVISION, AND USING DOCUMENTATION PROVIDED BY SANDRIDGE ENERGY ONLY UTILITIES/EASEMENTS THAT WERE VISIBLE ON THE DATE OF THIS SURVEY, WITHINADJOINING THIS EASEMENT/LOCATION, HAVE BEEN LOCATED AS SHOWN HEREON OF WHICH I HAVE KNOWLEGGE. THIS CERTIFICATION IS LIMITED THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE, AND MADE FOR THIS TRANSACTION ONLY.

 THE INFORMATION SHOWN HEREIN IS FOR CONSTRUCTION PURPOSES ONLY

LOCATION & ELEVATION VERIFICATION MAP



LEASE NAME & WELL NO. LIAM 2015 2-36H

 SECTION
 36
 TWP
 T20N
 RGE
 R15W
 MERIDIAN
 I.M.

 COUNTY
 MAJOR
 STATE
 OKLAHOMA

 DESCRIPTION
 250' FNL & 1695' FWL

ELEV.: 1673' (NGVD29)
ELEV.: 1674' (NAVD88)

THIS EASEMENT/SERVITUDE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY SANDRIDGE ENERGY. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.

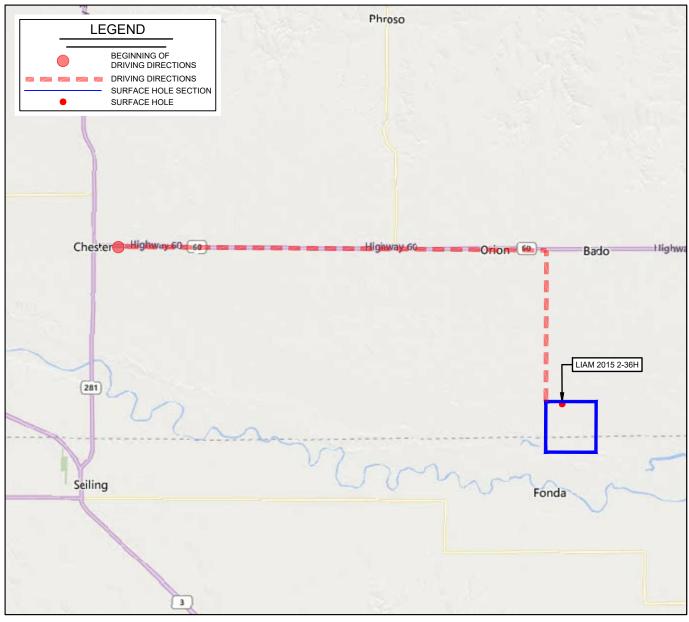
ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID BASED UPON THE OKLAHOMA STATE PLANE COORDINATE SYSTEM, NORTH ZONE OF THE NORTH AMERICAN DATUM, U.S. SURVEY FEET.





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VICINITY MAP



LEASE NAME & WELL NO.

LIAM 2015 2-36H

SECTION 36 TWP T20N RGE R15W MERIDIAN I.M.
COUNTY MAJOR STATE OKLAHOMA

DESCRIPTION 250' FNL & 1695' FWL

DISTANCE & DIRECTION
FROM CHESTER, OKLA GO EAST ON HWY 60 FOR +/- 9 MILES. TURN
SOUTH ON N2380 RD FOR +/- 3 MILES TO THE NWC 36-T20N-R15W.

THIS EASEMENT/SERVITUDE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY SANDRIDGE ENERGY. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.

ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID BASED UPON THE OKLAHOMA STATE PLANE COORDINATE SYSTEM, NORTH OF THE NORTH AMERICAN DATUM, U.S. SURVEY FEET.





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