API NUMBER: 093 25225 A

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

Approval Date: 04/11/2022

Expiration Date: 10/11/2023

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION:	Section:	18	Township:	20N I	Range: 1	14W	County: I	MAJOR								
SPOT LOCATION:	NW NE	NE	NW	FEET FROM C	UARTER:	FROM	NORTH	FROM	WEST							
				SECTIO	ON LINES:		265		2210							
Lease Name:	HARLEY 2014				w	/ell No:	2-18H			v	Vell will be	265	feet from	nearest unit	or leas	e boundary.
Operator Name:	SANDRIDGE E	XPLORA	TION & PR	ODUCTION	Tele	ephone:	40520924	407					ОТО	C/OCC Num	ber:	22281 0
SANDRIDGE EXPLORATION & PRODUCTION LLC						М	ICHAEL C	CURTIS F	PEMBRO	ОК						
1 E SHERIDAN AVE #500						52	2496 S CR	R 252								
OKLAHOMA CITY, OK 73104-2496						_F ,	AIRVIEW				OK	73737				
Formation(s)	(Permit Vali	id for Li	sted For	mations Or	ıly):											
Name			Code		De	epth										
1 MISSISSIPP	PI SOLID		351M	SSSD	88	72										
Spacing Orders:	143398				Location	n Except	ion Order	s: 724	4755			Ind	creased De	nsity Orders:	7247	54
Pending CD Number	ers: No Pe	nding			Wor	rking inte	rest owne	rs' notifi	ed: ***				Spe	ecial Orders:	No s	Special
Total Depth: 13850 Ground Elevation: 1776 Surface Casing						asing:	800 Depth to base of Treatable Water-Bearing FM: 430									
							Ū					D	eep surf	ace casing	g has b	een approved
Under	Federal Jurisdicti	ion: No						Ap	proved Metho	od for disp	osal of Drill	lina Flui	ds:			
Under Federal Jurisdiction: No Fresh Water Supply Well Drilled: No								D. One time land application (REQUIRES PERMIT) PERMIT NO: 18-36039								
Surface Water used to Drill: No								H. (Other) SEE MEMO						10 00000		
									()							
PIT 1 INFOR										tegory of P						
Type of Pit System: CLOSED Closed System Means Steel Pits						Liı	Liner not required for Category: C Pit Location is: AP/TE DEPOSIT									
Type of Mud System: WATER BASED Chlorides Max: 8000 Average: 5000							Pit Location Formation: TERRACE									
	-		- 4h on 40f4 l	halaw basa af s	:40 V				Pit Location	n Formatio	n: IEKKA	CE				
	top of ground wa	-		below base of p	DIL? Y											
vvitnin i r	mile of municipal wellhead Protect															
Pit is lo	ocated in a Hydro			ea.												
<u></u>																
PIT 2 INFOR										tegory of P						
Type of Pit System: CLOSED Closed System Means Steel Pits						Liı	Liner not required for Category: C									
Type of Mud System: OIL BASED							Pit Location is: AP/TE DEPOSIT Pit Location Formation: TERRACE									
Chlorides Max: 300000 Average: 200000								Pit Location	n Formatio	n: TERRA	CE					
	Is depth to top of ground water greater than 10ft below base of pit? Y Within 1 mile of municipal water well? N															
Within 1 r	•															
Dit in in	Wellhead Protect			00												
Pit <u>is</u> lo	ocated in a Hydro	logically S	ensilive Af	ea.												

HORIZONTAL HOLE 1

Section: 18 Township: 20N Range: 14W Meridian: IM Total Length: 4929

County: MAJOR Measured Total Depth: 13850

Spot Location of End Point: SE SE SE SW True Vertical Depth: 8958

Feet From: SOUTH

1/4 Section Line: 150

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

NOTES:	
Category	Description
DEEP SURFACE CASING	[4/5/2022 - 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	[4/5/2022 - 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
INCREASED DENSITY - 724754 (202200699)	[4/11/2022 - GC2] - 18-20N-14W X143398 MSSSD 1 WELL
	SANDRIDGE EXPLORATION AND PRODUCTION, LLC 4/7/2022
INTERMEDIATE CASING	[4/5/2022 - 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
LOCATION EXCEPTION - 724755 (202200700)	[4/11/2022 - GC2] - (I.O) 18-20N-14W X143398 MSSSD COMPL. INT. NCT 165' FNL, NCT 165' FSL, NCT 2000' FWL SANDRIDGE EXPLORATION AND PRODUCTION, LLC 4-7-2022
МЕМО	[4/5/2022 - GC2] - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT
SPACING - 143398	[4/11/2022 - GC2] - (640) 18-20N-14W

EXT 87492 MSSSD. OTHERS

EXT OTHER

