API NUMBER: 093 25116 Horizontal Hole Oil & Gas	A	OKLAHOMA CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION P.O. BOX 52000 OKLAHOMA CITY, OK 73152-2000 (Rule 165:10-3-1)			Approval Date: Expiration Date:	12/28/2017 06/28/2018
Amend reason: CHANGES TO APPROVE DISPOSAL OF DRILLING FLUIDS.	ED METHOD FOR	AME	ND PERMIT TO	DRILL		
(	wp: 20N Rge: 16W	County: MAJOR				
SPOT LOCATION: SE SW		TION LINES		EST		
		2	35 65			
Lease Name: KOPPER 2016 Operator SANDRIDGE I Name:	EXPLORATION & PRODU		I- <b>5H</b> Telephone: 40542		II will be 235 feet from neare OTC/OCC Number:	st unit or lease boundary. 22281 0
SANDRIDGE EXPLOR 123 ROBERT S KERR OKLAHOMA CITY,	AVE STE 1702	ION LLC 102-6406		ELEANOR JO 2613 NW 153F EDMOND		3013
Name	lid for Listed Formati	ons Only): Depth 9009	6 7 8 9	Name	Dept	h
5			10			
Spacing Orders: 80607		Location Exception O	rders: 673369		Increased Density Orders:	
Pending CD Numbers: Total Depth: 14213	Ground Elevation: 1760	Surface C	asing: 1500		Special Orders: Depth to base of Treatable Wate	r-Bearing FM: 680
Under Federal Jurisdiction: No		Fresh Water S	upply Well Drilled:	/es	Surface Water u	ised to Drill: No
PIT 1 INFORMATION			Appro	ved Method for dispos	al of Drilling Fluids:	
Type of Pit System: CLOSED Cl Type of Mud System: WATER BA Chlorides Max: 10000 Average: 50	ASED 000				n (REQUIRES PERMIT) EL PITS PER OPERATOR REQUES	PERMIT NO: 18-34527 ST.
Is depth to top of ground water grea Within 1 mile of municipal water we Wellhead Protection Area? N Pit <b>is</b> located in a Hydrologid	11? N	pit? Y				
Category of Pit: C	, <u></u> ,					
Liner not required for Category:	C					
Pit Location is AP/TE DEPOSIT						
Pit Location Formation: TERRA	CE					

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 is 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

Sec	05	Twp	20N	Rge	16\	N C	County	MAJOR
Spot	Locatior	of En	d Point	t: NE	Ξ	NW	NW	NW
Feet	From:	NOF	RTH	1/4 Sec	ction	Line:	15	0
Feet	From:	WE	ST	1/4 Se	ction	Line:	43	60
Depth of Deviation: 8652								
Radius of Turn: 800								
Direction: 355								
Total Length: 4305								
Measured Total Depth: 14213								
True Vertical Depth: 9059								
End Point Location from Lease,								
Unit, or Property Line: 150								

Notes:	
Category	Description
DEEP SURFACE CASING	12/5/2017 - G71 - 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	12/5/2017 - G71 - OCC 165:10-3-10 REQUIRES:
	1) PRIOR TO COMMENCEMENT OF HYDRAULIC FRACTURING OPERATIONS FOR HORIZONTAL WELLS, NOTICE GIVEN FIVE BUSINESS DAYS IN ADVANCE TO OFFSET OPERATORS WITH WELLS COMPLETED IN THE SAME COMMON SOURCE OF SUPPLY WITHIN 1/2 MILE;
	2) WITH NOTICE ALSO GIVEN 48 HOURS IN ADVANCE OF HYDRAULIC FRACTURING ALL WELLS TO BOTH THE OCC CENTRAL OFFICE AND LOCAL DISTRICT OFFICES, USING THE "FRAC NOTICE FORM" FOUND AT THE FOLLOWING LINK: OCCEWEB.COM/OG/OGFORMS.HTML; AND,
	3) THE CHEMICAL DISCLOSURE OF HYDRAULIC FRACTURING INGREDIENTS FOR ALL WELLS TO BE REPORTED TO FRACFOCUS WITHIN 60 DAYS AFTER THE CONCLUSION THE HYDRAULIC FRACTURING OPERATIONS, USING THE FOLLOWING LINK: FRACFOCUS.ORG
INTERMEDIATE CASING	12/5/2017 - G71 - 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 - 673369	12/28/2017 - G58 - (I.O.) 5-20N-16W X80607 MNMCO COMPL. INT. NCT 150' FNL, NCT 150' FSL, NCT 330' FWL SANDRIDGE EXPLORATION AND PRODUCTION, LLC 2/8/2018

SPACING - 80604

Description

12/28/2017 - G58 - (640) 5-20N-16W EXT OTHERS EXT 76570 MNMCO, OTHERS