	OKLAHOMA CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION P.O. BOX 52000				11/30/2017
PI NUMBER: 043 23574	OKLAHOMA CITY, OK 73152-2000 (Rule 165:10-3-1)			Expiration Date:	05/30/2018
rizontal Hole Oil & Gas		(,			
	Ē	PERMIT TO DRILL			
WELL LOCATION: Sec: 13 Twp: 18N Rge: 14					
SPOT LOCATION: SE SW SW SW	FEET FROM QUARTER: FROM SECTION LINES:	SOUTH FROM WEST			
	section lines. 2	235 450			
Lease Name: SANDERSON	Well No:	13-1H	Well will be	235 feet from neare	est unit or lease boundary.
Operator COMANCHE EXPLORATION CO L Name:	rc	Telephone: 4057555900		OTC/OCC Number:	20631 0
COMANCHE EXPLORATION CO LLC					
6520 N WESTERN AVE STE 300	NORMA SANDER			1	
OKLAHOMA CITY, OK	73116-7334	67504	67504 N. 2440 RD		
	10110 1004	CANT	ON	OK 7	73724
2 3 4 5 Spacing Orders: No Courier	Location Exception O	7 8 9 10	Inc	creased Density Orders:	
No Spacing	Location Exception Orders:				
Pending CD Numbers: 201706558 201706560			Sp	ecial Orders:	
Total Depth: 14596 Ground Elevation: 1	695 Surface C	asing: 850	Depth t	o base of Treatable Wate	er-Bearing FM: 190
Under Federal Jurisdiction: No	Fresh Water S	Supply Well Drilled: No		Surface Water	used to Drill: No
PIT 1 INFORMATION		Approved Metho	od for disposal of Drilling	g Fluids:	
Type of Pit System: CLOSED Closed System Means Type of Mud System: WATER BASED	Steel Pits	D. One time lar	nd application (REQU	IIRES PERMIT)	PERMIT NO: 17-334
Chlorides Max: 8000 Average: 5000 H. SEE MEMO				·	
Is depth to top of ground water greater than 10ft below be	ase 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					

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 13 Twp 18N Rge 14W County DEWEY Spot Location of End Point: NE NW NW NW Feet From: NORTH 1/4 Section Line: 135 Feet From: WEST 1/4 Section Line: 450 Depth of Deviation: 9150 Radius of Turn: 451 Direction: 360 Total Length: 4738 Measured Total Depth: 14596 True Vertical Depth: 9815 End Point Location from Lease, Unit, or Property Line: 135

Notes:	
Category	Description
COMPLETION INTERVAL	11/30/2017 - G58 - MUST BE NOT CLOSER THAN 165' FNL OR FSL; WILL BE LEGAL PER OPERATOR
DEEP SURFACE CASING	11/15/2017 - 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	11/15/2017 - 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	11/15/2017 - 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
МЕМО	11/15/2017 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

PENDING CD - 201706558

Description

11/30/2017 - G58 - (E.O.) 13-18N-14W X201706560 MSSP COMPL. INT. NCT 165' FSL, NCT 165' FNL, NCT 330' FWL NO OP. NAMED REC 11/3/2017 (THOMAS) 11/30/2017 - G58 - (E.O.)(640)(HOR) 13-18N-14W EST MSSP, OTHERS POE TO BHL NLT 660' FB REC 11/3/2017 (THOMAS)

PENDING CD - 201706560