PI NUMBER: 093 25240	OKLAHOMA CORPOR OIL & GAS CONSEI P.O. BO	Approval Date:			
rizontal Hole Oil & Gas	OKLAHOMA CITY, OK 73152-2000 (Rule 165:10-3-1)		Expiration Date:	Expiration Date: 05/25/2021	
	PERMIT	<u>TO DRILL</u>			
WELL LOCATION: Sec: 13 Twp: 20N Rge: 15					
		TACT			
SPOT LOCATION: N2 N2 NW NE	SECTION LINES:	ROM EAST			
Lease Name: GEORGE	Well No: 13-12-1H	1980	Well will be 510 feet from nearest	unit or lease boundary.	
	-			-	
Operator COMANCHE EXPLORATION CO LI Name:	LC Telephon	e: 4057555900	OTC/OCC Number:	20631 0	
COMANCHE EXPLORATION CO LLC		GEORGE I	OUIS WALTERS		
6520 N WESTERN AVE STE 300			EY PLACE COURT		
OKLAHOMA CITY, OK	73116-7334	HOUSTON			
		HOUSTON		94	
2 3 4 5		7 8 9 10			
Spacing Orders: 141045	Location Exception Orders:		Increased Density Orders:		
Pending CD Numbers: 201904301 201904302			Special Orders:		
Total Depth: 14321 Ground Elevation: 17	79 Surface Casing: 8	00	Depth to base of Treatable Water-B	earing FM: 430	
Total Depth: 14321 Ground Elevation: 17	79 Surface Casing: 8	00 Deep surface casing		earing FM: 430	
Total Depth: 14321 Ground Elevation: 17 Under Federal Jurisdiction: No	79 Surface Casing: 8 Fresh Water Supply Well	Deep surface casing		-	
	-	Deep surface casing	has been approved Surface Water use	-	
Under Federal Jurisdiction: No	Fresh Water Supply Well	Deep surface casing	has been approved Surface Water use	-	
Under Federal Jurisdiction: No PIT 1 INFORMATION	Fresh Water Supply Well	Deep surface casing Drilled: No Approved Method for dis D. One time land applic	has been approved Surface Water use	d to Drill: No	
Under Federal Jurisdiction: No PIT 1 INFORMATION Type of Pit System: CLOSED Closed System Means S Type of Mud System: WATER BASED Chlorides Max: 8000 Average: 5000	Fresh Water Supply Well	Deep surface casing Drilled: No Approved Method for dis	has been approved Surface Water use sposal of Drilling Fluids:	d to Drill: No	
Under Federal Jurisdiction: No PIT 1 INFORMATION Type of Pit System: CLOSED Closed System Means S Type of Mud System: WATER BASED Chlorides Max: 8000 Average: 5000 Is depth to top of ground water greater than 10ft below ba	Fresh Water Supply Well	Deep surface casing Drilled: No Approved Method for dis D. One time land applic	has been approved Surface Water use sposal of Drilling Fluids:	d to Drill: No	
Under Federal Jurisdiction: No PIT 1 INFORMATION Type of Pit System: CLOSED Closed System Means S Type of Mud System: WATER BASED Chlorides Max: 8000 Average: 5000 Is depth to top of ground water greater than 10ft below ba Within 1 mile of municipal water well? N	Fresh Water Supply Well	Deep surface casing Drilled: No Approved Method for dis D. One time land applic	has been approved Surface Water use sposal of Drilling Fluids:	d to Drill: No	
Under Federal Jurisdiction: No PIT 1 INFORMATION Type of Pit System: CLOSED Closed System Means S Type of Mud System: WATER BASED Chlorides Max: 8000 Average: 5000 Is depth to top of ground water greater than 10ft below ba Within 1 mile of municipal water well? N Wellhead Protection Area? N	Fresh Water Supply Well	Deep surface casing Drilled: No Approved Method for dis D. One time land applic	has been approved Surface Water use sposal of Drilling Fluids:	d to Drill: No	
Under Federal Jurisdiction: No PIT 1 INFORMATION Type of Pit System: CLOSED Closed System Means S Type of Mud System: WATER BASED Chlorides Max: 8000 Average: 5000 Is depth to top of ground water greater than 10ft below ba Within 1 mile of municipal water well? N Wellhead Protection Area? N Pit is located in a Hydrologically Sensitive Area.	Fresh Water Supply Well	Deep surface casing Drilled: No Approved Method for dis D. One time land applic	has been approved Surface Water use sposal of Drilling Fluids:	d to Drill: No	
Under Federal Jurisdiction: No PIT 1 INFORMATION Type of Pit System: CLOSED Closed System Means S Type of Mud System: WATER BASED Chlorides Max: 8000 Average: 5000 Is depth to top of ground water greater than 10ft below ba Within 1 mile of municipal water well? N Wellhead Protection Area? N	Fresh Water Supply Well	Deep surface casing Drilled: No Approved Method for dis D. One time land applic	has been approved Surface Water use sposal of Drilling Fluids:	d to Drill: No	
Under Federal Jurisdiction: No PIT 1 INFORMATION Type of Pit System: CLOSED Closed System Means S Type of Mud System: WATER BASED Chlorides Max: 8000 Average: 5000 Is depth to top of ground water greater than 10ft below ba Within 1 mile of municipal water well? N Wellhead Protection Area? N Pit is located in a Hydrologically Sensitive Area. Category of Pit: C	Fresh Water Supply Well	Deep surface casing Drilled: No Approved Method for dis D. One time land applic	has been approved Surface Water use sposal of Drilling Fluids:	-	

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	12	Twp	20N	Rge	15W	County	MAJOR
Spot I	_ocatior	of En	d Point	: N2	2 N2	NE	NW
Feet I	From:	NOF	RTH	1/4 Seo	ction Lin	e: 13	35
Feet F	eet From: EAST		ЯΤ	1/4 Section Line:		ie: 19	980
Depth of Deviation: 8450							
Radius of Turn: 427							
Direction: 360							
Total Length: 5200							
Measured Total Depth: 14321							
True Vertical Depth: 9100							
End Point Location from Lease,							
Unit, or Property Line: 135							

Notes:	
Category	Description
DEEP SURFACE CASING	11/13/2019 - 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	11/13/2019 - GC2 - 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	11/13/2019 - 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	11/13/2019 - GC2 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT
PENDING CD - 201904301	11/25/2019 - GC2 - 12-20N-15W X141045 MPLM 1 WELL NO OP. NAMED REC. 10-30-2019 (DENTON)

093 25240 GEORGE 13-12-1H

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SPACING - 141045

11/25/2019 - GC2 - (I.O.) 12-20N-15W X141045 MPLM COMPL. INT. NCT 165' FNL, NCT 165' FSL, NCT 560' FEL NO OP. NAMED REC. 10-30-2019 (DENTON) 11/25/2019 - GC2 - (640) 12-20N-15W EXT 125423 MPLM EXT OTHER API: 093-25240

