PI NUMBER: 017 25257	OIL & GAS CC P.C OKLAHOMA	RPORATION COMMISSIC INSERVATION DIVISION D. BOX 52000 A CITY, OK 73152-2000 Ie 165:10-3-1)	Approval Date: 08/08/2018 Expiration Date: 02/08/2019
	PEF	RMIT TO DRILL	
	<u></u> .		
WELL LOCATION: Sec: 16 Twp: 14N Rge: 10	W County: CANADIAN		
	FEET FROM QUARTER: FROM NOR	TH FROM EAST	
	SECTION LINES: 207	610	
Lease Name: ICE BIA	Well No: 2H-1	621X	Well will be 207 feet from nearest unit or lease boundary.
Operator CIMAREX ENERGY CO Name:	т	elephone: 9185851100	OTC/OCC Number: 21194 0
CIMAREX ENERGY CO 202 S CHEYENNE AVE STE 1000		CAROL AE	DAMSON HWEST BLVD
TULSA, OK	74103-3001	GEARY	OK 73040
Formation(s) (Permit Valid for Listed Form Name 1 WOODFORD 2 3 4 5 Spacing Orders: 541682 548203	mations Only): Depth 12100 Location Exception Order	Name 6 7 8 9 10 s:	Depth Increased Density Orders: 680246 680245
Pending CD Numbers: 201804300 201804305 201804299 Total Depth: 21969 Ground Elevation: 14	10 Surface Casi	ng: 350	Special Orders: Depth to base of Treatable Water-Bearing FM: 120
Under Federal Jurisdiction: Yes	Fresh Water Supp	ly Well Drilled: No	Surface Water used to Drill: No
PIT 1 INFORMATION		Approved Method for di	isposal of Drilling Fluids:
Type of Pit System: CLOSED Closed System Means S	teel Pits		
Type of Mud System: WATER BASED		D. One time land appli	ication (REQUIRES PERMIT) PERMIT NO: 18-34200
Chlorides Max: 10000 Average: 5000		H. CLOSED SYSTEM	=STEEL PITS PER OPERATOR REQUEST
Is depth to top of ground water greater than 10ft below ba Within 1 mile of municipal water well? Y	se of pit? Y		
Wellhead Protection Area? Y			
Pit is located in a Hydrologically Sensitive Area.			
Category of Pit: C			
Liner not required for Category: C Pit Location is ALLUVIAL			

This permit does not address the right of entry or settlement of surface damages. The duration of this permit is SIX MONTHS, except as otherwise provided by Rule 165: 10-3-1. Rule 165: 10-3-4 (c) (7) (e) - The Operator shall give 24 Hours notice by telephone to the appropriate District Office of the Conservation Division as to when Surface Casing will be run.

HORIZONTAL HOLE 1

CANADIAN Sec 21 Twp 14N Rge 10W County Spot Location of End Point: S2 SE SE SE SOUTH 1/4 Section Line: 150 Feet From: Feet From: EAST 1/4 Section Line: 330 Depth of Deviation: 11562 Radius of Turn: 477 Direction: 178 Total Length: 9657 Measured Total Depth: 21969 True Vertical Depth: 12100 End Point Location from Lease. Unit. or Property Line: 150 Notes: Category Description HYDRAULIC FRACTURING 7/10/2018 - 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 **INCREASED DENSITY - 680245** 7/19/2018 - G57 - (F.O.) 16-14N-10W X541682 WDFD 1 WELL CIMAREX ENERGY CO. 7-16-2018 7/19/2018 - G57 - (F.O.) 21-14N-10W **INCREASED DENSITY - 680246** X548203 WDFD 1 WELL CIMAREX ENERGY CO. 7-16-2018 7/10/2018 - G71 - DUE TO THE KNOWN POTENTIAL RISK OF ENCOUNTERING AN OVER-INTERMEDIATE CASING PRESSURED ZONE IN THE MORROW SERIES IN THIS AREA. THE TECHNICAL MANAGER RECOMMENDS SETTING AN INTERMEDIATE STRING OF CASING IMMEDIATELY ABOVE THE MORROW SERIES PENDING CD - 201804299 7/19/2018 - G57 - (I.O.) 16 & 21-14N-10W EST MULTIUNIT HORÍZONTAL WELL X541682 WDFD 16-14N-10W X548203 WDFD 21-14N-10W 50% 16-14N-10W 50% 21-14N-10W CIMAREX ENERGY CO. REC 6-18-2018 (DUNN) PENDING CD - 201804300 7/19/2018 - G57 - (I.O.) 16 & 21-14N-10W X541682 WDFD 16-14N-10W X548203 WDFD 21-14N-10W COMPL. INT. (16-14N-10W) NCT 150' FNL, NCT 0' FSL, NCT 250' FEL COMPL. INT. (21-14N-10W) NCT 0' FNL, NCT 150' FSL, NCT 250' FEL NO OP. NAMED REC 6-18-2018 (DUNN)

Category	Description
PENDING CD - 201804305	7/19/2018 - G57 - (I.O.) 16 & 21-14N-10W X541682 WDFD 16-14N-10W X548302 WDFD 21-14N-10W X165:10-3-28(C)(2)(B) WDFD (ICE BIA 2H-1621X) MAY BE CLOSER THAN 600' FROM THE ICE 1- 16H, ADAMSON 1-9H, FINCH 1-21H CIMAREX ENERGY CO. REC 6-18-2018 (DUNN)
PUBLIC WATER SUPPLY WELL	7/10/2018 - G71 - GEARY - 1 PWS/WPA, NW/4 1014N-10W
SPACING - 541682	7/19/2018 - G57 - (640) 16-14N-10W EXT OTHERS EST WDFD
SPACING - 548203	7/19/2018 - G57 - (640) 21-14N-10W EXT 541682 WDFD

