PI NUMBER: 017 25075	P.C OKLAHOMA	RPORATION COMMISSIC DNSERVATION DIVISION D. BOX 52000 A CITY, OK 73152-2000 Ile 165:10-3-1)	Approval Date: 09/20/2017 Expiration Date: 03/20/2018
	PEF	<u>RMIT TO DRILL</u>	
WELL LOCATION: Sec: 18 Twp: 14N Rge: 10W	County: CANADIAN	١	
	FEET FROM QUARTER: FROM NOR	TH FROM WEST	
	SECTION LINES: 230	1125	
Lease Name: GRESHAM COM	Well No: 1H-1	1819X	Well will be 230 feet from nearest unit or lease boundary.
Operator CIMAREX ENERGY CO Name:	т	elephone: 9185851100	OTC/OCC Number: 21194 0
CIMAREX ENERGY CO		MELDA FI	SHER
202 S CHEYENNE AVE STE 1000			VEY BROWN DR.
TULSA, OK 7	74103-3001	KINGFISH	
		KINGFISH	ER OK 73750
3 4 5 Spacing Orders: ⁵⁶⁶¹⁹⁸	Location Exception Order	8 9 10	Increased Density Orders:
Pending CD Numbers: 201705369 201705370 201705371			Special Orders:
Total Depth: 21581 Ground Elevation: 142	³ Surface Casi	ing: 280	Depth to base of Treatable Water-Bearing FM: 130
	Fresh Water Supr	bly Well Drilled: No	Surface Water used to Drill: No
Under Federal Jurisdiction: No	r lean water oupp	ny weii Dhiled. No	
Under Federal Jurisdiction: No PIT 1 INFORMATION			sposal of Drilling Fluids:
			sposal of Drilling Fluids:
PIT 1 INFORMATION		Approved Method for di D. One time land appli	cation (REQUIRES PERMIT) PERMIT NO: 17-330
PIT 1 INFORMATION Type of Pit System: CLOSED Closed System Means Ste Type of Mud System: WATER BASED Chlorides Max: 10000 Average: 5000	cel Pits	Approved Method for di D. One time land appli	
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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 19 Twp 14N Rge 10W County Spot Location of End Point: SE SW SW SW Feet From: SOUTH 1/4 Section Line: 150 Feet From: WEST 1/4 Section Line: 450 Depth of Deviation: 11074 Radius of Turn: 521 Direction: 183 Total Length: 9689 Measured Total Depth: 21581 True Vertical Depth: 12100 End Point Location from Lease. Unit. or Property Line: 150 Notes: Description Category HYDRAULIC FRACTURING 9/18/2017 - 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 9/18/2017 - 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 PENDING CD - 201705369 9/20/2017 - G60 - (640)(HOR) 18 & 19-14N-10W EST MSSP, WDFD (18-14N-10W) EST MSSP (19-14N-10W) COMPL. INT. (MSSP) NLT 660' FB COMPL. INT. (WDFD) NLT 165' FNL/FSL, NLT 330' FEL/FWL REC. 9/8/17 (JOHNSON) PENDING CD - 201705370 9/20/2017 - G60 - (I.O.) 18 & 19-14N-10W EST MULTIUNIT HORIZONTAL WELL X201705369 MSSP, WDFD (18-14N-10W) X201705369 MSSP (19-14N-10W) X566198 WDFD (19-14N-10W) (WDFD IS AN ASSOCIATED COMMON SOURCE OF SUPPLY TO MSSP) 50% 19-14N-10W 50% 18-14N-10W NO OP. NAMED REC. 9/8/17 (JOHNSON) 9/20/2017 - G60 - (I.O.) 18 & 19-14N-10W PENDING CD - 201705371 X201705369 MSSP, WDFD (18-14N-10W) X201705369 MSSP (19-14N-10W) X566198 WDFD (19-14N-10W) COMPL. INT. (18-14N-10W) NCT 150' FNL, NCT 0' FSL, NCT 370' FWL COMPL. INT. (19-14N-10W) NCT 0' FNL, NCT 150' FSL, NCT 370' FWL NO OP. NAMED REC. 9/18/17 (JOHNSON) PUBLIC WATER SUPPLY WELL 9/18/2017 - G71 - GEARY - 1 PWS/WPA, SE/4 7-14N-10W

SPACING - 566198

Description

9/20/2017 - G60 - (640) 19-14N-10W EXT OTHER EXT 561988 WDFD

