PI NUMBER: 011 23937 izontal Hole Oil & Gas WELL LOCATION: Sec: 12 Twp: 16N Rge: 12V SPOT LOCATION: NW NW NE NE	OIL & GAS CO P.O OKLAHOMA (Rul <u>PER</u>	RPORATION COMMISS NSERVATION DIVISION . BOX 52000 CITY, OK 73152-2000 e 165:10-3-1) <u>MIT TO DRILL</u>		02/07/2018 08/07/2018
	SECTION LINES: 225	1180		
Lease Name: SEWELL BIA	Well No: 5H-1	312X	Well will be 225 feet from neares	t unit or lease boundary.
Operator CIMAREX ENERGY CO Name:	Τe	lephone: 9185851100	OTC/OCC Number:	21194 0
CIMAREX ENERGY CO 202 S CHEYENNE AVE STE 1000 TULSA, OK	74103-3001		BETSY KNUDSEN AIRIE ROSE ROAD MA CITY OK 73	1120
Formation(s) (Permit Valid for Listed Form Name 1 MISSISSIPPIAN	<b>Depth</b> 9350	Name 6	Depth	
2 WOODFORD 3	10930	7 8		
4		9		
5		10		
Spacing Orders: 654339	Location Exception Orders	:	Increased Density Orders:	
Pending CD Numbers: 201800552 201800553 201800554 201800555			Special Orders:	
Total Depth: 20344 Ground Elevation: 157	78 Surface Casi	ng: 1500	Depth to base of Treatable Water-	Bearing FM: 230
Under Federal Jurisdiction: Yes	Fresh Water Supply Well Drilled: No		Surface Water us	ed to Drill: No
PIT 1 INFORMATION		Approved Method for	disposal of Drilling Fluids:	
Type of Pit System: CLOSED Closed System Means S	teel Pits			
Type of Mud System: WATER BASED			blication (REQUIRES PERMIT)	PERMIT NO: 18-3381
Chlorides Max: 10000 Average: 5000 Is depth to top of ground water greater than 10ft below bas Within 1 mile of municipal water well? N	se of pit? Y	H. CLOSED SYSTE	M=STEEL PITS PER OPERATOR REQUES	Т
Wellhead Protection Area? N				
Pit <b>is</b> 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				

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

BLAINE Sec 13 Twp 16N Rge 12W County Spot Location of End Point: SW SE SE SE Feet From: SOUTH 1/4 Section Line: 150 Feet From: EAST 1/4 Section Line: 450 Depth of Deviation: 9824 Radius of Turn: 573 Direction: 175 Total Length: 9620 Measured Total Depth: 20344 True Vertical Depth: 10930 End Point Location from Lease. Unit. or Property Line: 150 Notes: Description Category DEEP SURFACE CASING 1/25/2018 - G71 - APPROVED: NOTIFY OCC FIELD INSPECTOR IMMEDIATELY FOR ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON CONDUCTOR OR SURFACE CASING HYDRAULIC FRACTURING 1/25/2018 - 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 INTERMEDIATE CASING 1/25/2018 - 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 1/31/2018 - G75 - (I.O.) 12 & 13-16N-12W PENDING CD - 201800552 EST MULTIUNIT HORÍZONTAL WELL X654339 MSSP, WDFD (WDFD ADJACENT COMMON SOURCE OF SUPPLY TO MSSP) 50% 12-16N-12W 50% 13-16N-12W NO OP. NAMED REC 2-5-2018 (JOHNSON) PENDING CD - 201800553 1/31/2018 - G75 - (I.O.) 12 & 13-16N-12W X654339 MSSP. WDFD COMPL. INT. (12-16N-12W) NCT 150' FNL, NCT 0' FSL, NCT 350' FEL COMPL. INT. (13-16N-12W) NCT 0' FNL, NCT 150' FSL, NCT 350' FEL NO OP. NAMED REC 2-5-2018 (JOHNSON) 1/31/2018 - G75 - 12-16N-12W PENDING CD - 201800554 X654339 MSSP 4 WELLS NO OP. NAMED **REC 2-5-2018 (JOHNSON)** PENDING CD - 201800555 1/31/2018 - G75 - 13-16N-12W X654339 MSSP 4 WELLS NO OP. NAMED REC 2-5-2018 (JOHNSON)

SPACING - 654339

## Description

1/31/2018 - G75 - (640)(HOR) 12 & 13-16N-12W EXT 645048 MSSP, WDFD, OTHER COMPL. INT. (MSSP) NLT 660' FB COMPL. INT. (WDFD) NLT 165' FNL & FSL, NLT 330' FEL & FWL (COEXIST SP. ORDER # 221573/434805 CSTR S2 & ORDER # 518906 CSTR N2 12-16N-12W; ORDER # 221573 CSTR 13-16N-12W)

