API NUMBER: 017 25193

OKLAHOMÁ CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION P.O. BOX 52000 OKLAHOMA CITY, OK 73152-2000 (Rule 165:10-3-1)

Approval Date:	02/28/2018	
Expiration Date:	08/28/2018	

Horizontal Hole Oil & Gas

Pit Location Formation:

ALLUVIUM

PERMIT TO DRILL

POT LOCATION: SE SW SE SE FEET FROM QUAR SECTION LINES:	ER: FROM SOUTH FROM 280	EAST 745		
Lease Name: THOMAS	Well No: 2H-3625X		Well will be 280 feet from nearest unit or lease boundary	
Operator CIMAREX ENERGY CO Name:	Telephone:	9185851100	OTC/OCC Number: 21194 0	
CIMAREX ENERGY CO	American Commission Co			
202 S CHEYENNE AVE STE 1000		MARY K. NI	TZEL	
		P O BOX 30	95	
TULSA, OK 74103-300	Bosonia and American	CALUMET	OK 74014	
Formation(s) (Permit Valid for Listed Formations On	y):			
Name Dept	h	Name	Depth	
1 WOODFORD 1160	0	6		
2		7		
3		8		
4		9		
5		10		
pacing Orders: 633804 Local 213936	on Exception Orders:		Increased Density Orders:	
ending CD Numbers: 201705576			Special Orders:	
201705577				
Total Depth: 21229 Ground Elevation: 1372	Surface Casing: 430		Depth to base of Treatable Water-Bearing FM: 380	
Under Federal Jurisdiction: No	Fresh Water Supply Well Drill	ed: No	Surface Water used to Drill: No	
PIT 1 INFORMATION	Approved Method for disposal of Drilling Fluids:			
Type of Pit System: CLOSED Closed System Means Steel Pits				
Type of Mud System: WATER BASED		D. One time land application (REQUIRES PERMIT) PERMIT NO: 18-3384		
Chlorides Max: 5000 Average: 3000			STEEL PITS (REQUIRED - NORTH CANADIAN RIVER)	
s depth to top of ground water greater than 10ft below base of pit? Y				
Mithin 1 mile of municipal water well? Y				
Wellhead Protection Area? Y				
Pit is located in a Hydrologically Sensitive Area.				
Category of Pit: C				
Liner not required for Category: C				

HORIZONTAL HOLE 1

CANADIAN Sec 25 Twp 14N Rge 9W County

Spot Location of End Point: N2 NE NE NORTH 1/4 Section Line: 150 Feet From: **EAST** 1/4 Section Line: 330 Feet From:

Depth of Deviation: 10802 Radius of Turn: 480

Direction: 5

Total Length: 9673

Measured Total Depth: 21229 True Vertical Depth: 11600 End Point Location from Lease, Unit, or Property Line: 150

Notes:

Category

HYDRAULIC FRACTURING

SPACING - 213936

Description

2/26/2018 - 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

2/28/2018 - G58 - (I.O.) 25 & 36-14N-9W PENDING CD - 201705576

EST MULTIUNIT HORIZONTAL WELL

X633804 WDFD (25-14N-9W) X213936 WDFD (36-14N-9W)

50% 25-14N-9W 50% 36-14N-9W NO OP. NAMED

REC 1/23/2018 (JOHNSON)

PENDING CD - 201705577 2/28/2018 - G58 - (I.O.) 25 & 36-14N-9W

X633804 WDFD (25-14N-9W) X213936 WDFD (36-14N-9W)

COMPL. INT. (36-14N-9W) NCT 0' FNL, NCT 150' FSL, NCT 250' FEL COMPL. INT. (25-14N-9W) NCT 0' FSL, NCT 150' FNL, NCT 250' FEL

NO OP. NAMED

REC 1/23/2018 (JOHNSON)

PENDING CD - 201708376 2/28/2018 - G58 - (I.O.) 36-14N-9W

X213936 WDFD 1 WELL

NO OP. NAMED

REC 1/16/2018 (DUNN) PUBLIC WATER SUPPLY WELLS 2/26/2018 - G71 - CALUMET - 2 PWS/WPA, NE/4 36-14N-9W & 1 PWS/WPA, SE/4 25-14N-9W

2/28/2018 - G58 - (640) 36-14N-9W **EXT OTHERS**

EXT 192374 WDFD, OTHERS

2/28/2018 - G58 - (640) 25-14N-9W **SPACING - 633804**

VAC 136459 OTHER EXT OTHERS EST OTHER EXT 580450 WDFD

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.

017 25193 THOMAS 2H-3625X

