API NUMBER: 017 25910

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

Approval Date:	02/01/2023	_
Expiration Date:	08/01/2024	

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION:	Section: 04	Township:	12N	Range:	9W	County: (CANAD	DIAN							
SPOT LOCATION:	NW NW NE	NE	FEET FROM	QUARTER:	FROM	NORTH	FROM	EAST							
			SECT	ON LINES:		254		1036							
Lease Name:	MARILYN				Well No:	5H-0409)	(Well v	will be	254	feet from ne	arest unit	or lease l	ooundary.
Operator Name:	CIMAREX ENERGY CO	,		т.		0405054	100								-
Operator Name.	CIMIANEX ENERGY CO	,		16	elepnone:	9185851						010/0	CC Num	ber: A	21194 0
CIMAREX EN	NERGY CO							OUGLAS L.	THOMPS	ON					
202 S CHEVI	ENNE AVE STE 10	00					$ \ _{_{1}}$	121 LAMBET	TH DR						
TULSA,		OK	74103-30	n∩1								OK	70000		
TOLOA,		OK	74103-30	<i>,</i> 0 1			-	DMOND				OK	73003		
							▎┕								
							1								
Formation(s)	(Permit Valid for L	isted For	mations O	nly):											
Name		Code		ı	Depth										
1 WOODFOR	D	319W	/DFD		12225										
Spacing Orders:	729595			Locat	ion Excep	tion Order	s: 73	31610			Inc	reased Densit	/ Orders:	731265	
Pending CD Numb	ers: No Pending)		W	orking int	erest owne	rs' noti	fied: ***				Specia	l Orders:	No S	pecial
Total Depth: 2	22170 Ground	Elevation: 1	538	Su	ırface (Casing:	1500)		Depth to	base o	of Treatable Wa	ater-Bearir	ıg FM: 24	10
											D	eep surfac	e casino	has be	en approved
							_								
	r Federal Jurisdiction: No er Supply Well Drilled: No							proved Method							
	e Water used to Drill: Ye							One time land ap	pplication (R				PER	MIT NO: 2	3-38849
							Н.	(Other)			SEE ME	=MO			
PIT 1 INFOR	MATION							Categ	ory of Pit: (0					
Type of	Pit System: CLOSED (Closed Syste	m Means Stee	el Pits			L	iner not required	for Category	y: C					
Type of M	lud System: WATER BA	SED						Pit Lo	cation is: E	BED AQI	UIFER				
Chlorides Max: 80	000 Average: 5000							Pit Location Fo	ormation: N	MARLOV	٧				
Is depth to	top of ground water great	er than 10ft	below base of	pit? Y											
Within 1	mile of municipal water we														
	Wellhead Protection Are	a? N													
Pit <u>is</u> l	ocated in a Hydrologically	Sensitive Ar	ea.												
								Categ	ory of Pit: (С					
PIT 2 INFOR	MATION														
_	MATION Pit System: CLOSED (Closed Syste	m Means Stee	el Pits			L	iner not required	for Category	y: C					
Type of		Closed Syste	m Means Stee	el Pits			L		I for Category		UIFER				
Type of Type of M	Pit System: CLOSED (Closed Syste	m Means Stee	el Pits			L		cation is:	BED AQI					
Type of M Chlorides Max: 36	Pit System: CLOSED (·					L	Pit Lo	cation is:	BED AQI					
Type of Type of M Chlorides Max: 30 Is depth to	Pit System: CLOSED (lud System: OIL BASED 00000 Average: 200000	er than 10ft					L	Pit Lo	cation is:	BED AQI					
Type of Type of M Chlorides Max: 30 Is depth to	Pit System: CLOSED (lud System: OIL BASED 00000 Average: 200000 top of ground water great	er than 10ft					L	Pit Lo	cation is:	BED AQI					

HORIZONTAL HOLE 1

Total Length: 10260 Section: 9 Township: 12N Range: 9W Meridian: IM

> County: CANADIAN Measured Total Depth: 22170 True Vertical Depth: 12325

Spot Location of End Point: SW SE SE

> Feet From: SOUTH 1/4 Section Line: 150 End Point Location from Lease, Unit, or Property Line: 150 Feet From: EAST 1/4 Section Line: 1095

NOTES:	
Category	Description
DEEP SURFACE CASING	[1/30/2023 - GC2] - APPROVED; (1) NOTIFY OCC FIELD INSPECTOR IMMEDIATELY OF ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON ANY CONDUCTOR OR SURFACE CASING. (2) SUBSEQUENT WELLS ON SAME PAD WILL NOT BE ALLOWED DEEP SURFACE CASING IN THE EVENT OF ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON ANY CONDUCTOR OR SURFACE CASING.
HYDRAULIC FRACTURING	[1/30/2023 - GC2] - OCC 165:10-3-10 REQUIRES:
	1) NOTICE SHALL BE GIVEN AT LEAST 5 BUSINESS DAYS PRIOR TO COMMENCEMENT OF HYDRAULIC FRACTURING OPERATIONS ON A HORIZONTAL WELL TO OPERATORS PRODUCING WELLS WITHIN 1 MILE OF THE COMPLETION INTERVAL OF THE SUBJECT WELL. THE NOTICE TO SUCH OPERATORS SHALL CONTAIN THE INFORMATION IN FORM 6000NOO. IF THE HYDRAULIC FRACTURING OPERATIONS SCHEDULE CHANGES AFTER NOTICE HAS BEEN PROVIDED, RESULTING IN A DELAY OF OPERATIONS OF MORE THAN 5 DAYS FROM THE INITIAL NOTICE, NEW NOTICE IS REQUIRED TO BE GIVEN;
	2) NOTICE WILL BE GIVEN TO THE OCC CENTRAL OFFICE AND LOCAL DISTRICT OFFICES AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF FRACTURING OPERATIONS. FORM 6000NHF SHALL BE FOUND HERE: HTTPS://OKLAHOMA.GOV/OCC/DIVISIONS/OIL-GAS/OGCD-FORMS; AND,
	3) THE CHEMICAL DISCLOSURE OF HYDRAULIC FRACTURING INGREDIENTS FOR ALL WELLS IS TO BE REPORTED TO FRACFOCUS WITHIN 60 DAYS AFTER THE CONCLUSION OF HYDRAULIC FRACTURING OPERATIONS, FOUND AT FRACFOCUS.ORG
INCREASED DENSITY - 731265	[2/1/2023 - G56] - (I.O.) 4 & 9-12N-9W X729595 WDFD 4 WELLS CIMAREX ENERGY, CO 1/10/2023
LOCATION EXCEPTION - 731610	[2/1/2023 - G56] - (I.O.) 4 & 9-12N-9W X729595 WDFD COMPL INT NCT 150' FNL, NCT 150' FSL, NCT 660' FEL CIMAREX ENERGY, CO 1/24/2023
МЕМО	[1/30/2023 - GC2] - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT
SPACING - 729595	[2/1/2023 - G56] - (1280)(HOR) 4 & 9-12N-9W EST WDFD, OTHER POE TO BHL NCT 165' FNL & FSL, NCT 330' FEL & FWL (COEXIST WITH SP # 597711 4-12N-9W, # 560331 9-12N-9W)