API NUMBER: 017 25405 **OKLAHOMA CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION** P.O. BOX 52000 **OKLAHOMA CITY, OK 73152-2000** (Rule 165:10-3-1)

Approval Date: 02/27/2019 Expiration Date: 08/27/2020

Pit Location Formation:

TERRACE

Horizontal Hole Multi Unit

Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 31 Twp: 14N Rc		ADIAN SOUTH FROM EAST			
SPOT LOCATION: SE SE SE SE	SECTION LINES:	260 230			
Lease Name: OKORONKWO	Well No:	1H-3130X	Well will be 230	feet from nearest unit or lease boundary.	
Operator CIMAREX ENERGY CO Name:		Telephone: 9185851100	отс	/OCC Number: 21194 0	
CIMAREX ENERGY CO 202 S CHEYENNE AVE STE 1000			ER CHILDREN'S TR	UST C/O RON ROTHER	
TULSA, O	K 74103-3001		FISHER	OK 73750	
Formation(s) (Permit Valid for Listed	• /				
Name	Depth	Name		Depth	
1 WOODFORD 2	10790	6 7			
3		8			
4		9			
5		10			
Spacing Orders: 690883 Location Exception		Orders:	Increased Density Orders:		
Pending CD Numbers: 201900546 201900545			Special 0	Orders:	
Total Depth: 21070 Ground Elevation	on: 1417 Surface	Casing: 1500	Depth to base	e of Treatable Water-Bearing FM: 400	
Under Federal Jurisdiction: No Fresh Water		r Supply Well Drilled: No		Surface Water used to Drill: No	
PIT 1 INFORMATION		Approved Method	Approved Method for disposal of Drilling Fluids:		
Type of Pit System: CLOSED Closed System M	eans Steel Pits				
Type of Mud System: WATER BASED		D. One time land	D. One time land application (REQUIRES PERMIT) PERMIT NO: 19-36202		
Chlorides Max: 5000 Average: 3000		H. CLOSED SY	STEM=STEEL PITS PER O	PERATOR REQUEST	
Is depth to top of ground water greater than 10ft be	low base of pit? Y				
Within 1 mile of municipal water well? N					
Wellhead Protection Area? N					
Pit is located in a Hydrologically Sensitive A	rea.				
Category of Pit: C					
Liner not required for Category: C					
Pit Location is AP/TE DEPOSIT					

HORIZONTAL HOLE 1

Sec 30 Twp 14N Rge 8W County CANADIAN

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

Feet From: EAST 1/4 Section Line: 300

Depth of Deviation: 10577 Radius of Turn: 573 Direction: 359 Total Length: 9593

Measured Total Depth: 21070

True Vertical Depth: 11102

End Point Location from Lease,
Unit, or Property Line: 150

Notes:

Category Description

DEEP SURFACE CASING 2/12/2019 - 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 2/12/2019 - 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

PENDING CD - 201900545 2/27/2019 - G75 - (I.O.) 31 & 30-14N-8W

EST MULTIUNIT HORÍZONTAL WELL

X690883 WDFD, OTHER

50% 31-14N-8W 50% 30-14N-8W NO OP. NAMED

REC 2-11-2019 (DUNN)

PENDING CD - 201900546 2/27/2019 - G75 - (I.O.) 31 & 30-14N-8W

X690883 WDFD, OTHÉR

COMPL. INT. (31-14N-8W) NCT 150' FSL, NCT 0' FNL, NCT 250' FEL COMPL. INT. (30-14N-8W) NCT 0' FSL, NCT 150' FNL, NCT 250' FEL

NO OP. NAMED REC 2-11-2019 (DUNN)

SPACING - 690883 2/27/2019 - G75 - (640)(HOR) 31 & 30-14N-8W

EXT OTHER EXT 587888 WDFD

POE TO BHL NLT 165' FNL & FSL, NLT 330' FEL & FWL

TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

ess Way, Okla. City, OK. 73134 * LOCAL (405) 843–4847 * OUT OF STATE (800) 654–3219

Certificate of Authorization No. 1293 LS

CANADIAN

County, Oklahoma 13800 Wireless API 017-25405 County, Oklahoma
14N Range 260'FSL-230'FEL 31 _ Range <u>8W</u>I.M. Section _ Township X 1975258 Y 242905 PROVIDED X 1970139 Y 242918 X 1972616 Y 242907 POINT, BOTTOM HOLE 150'FNL-300'FEL NAD-27 (US Feet 35'40'00.7" N 98'05'03.5" W 35.666862676' N 98.084302376' W X 1974958 Y 242755 RE OPERATOR LISTED, CONSTRUCTION PURPOSES ONLY LOT 1 OGR487 1958 , AND DRILL PATH D, NOT SURVEYED. E/2-NW/4 GRID NAD-27 OK NORTH US Feet LOT 2 INFORMATION SCALE: = 1000' X 1970138 Y 240278 500' 1000' 30 X 1975263 Y 240273 Best Acces Distance & from Hwy Good Topography Section t Accessibility to Loc ance & Direction 1 Hwy Jct or Town_ Drill LOT 3 31-T14N-R8W Site? æ Vegetation OKORONKWO E/2-SW/4 ENERGY Location Yes From CO. LOT 4 Location X 1970146 Y 237657 From Calumet, X 1972629 Y 237651 X 1975266 Y 237642 fell South 3 PROPOSED 옷, Reference S Stakes Set wheat 9 go LOT 1 East DRILL field North Stakes or None off ±2.5 county E/2-NW/4 miles, Well ±369 Alternate road. No.:1H-3130X LOT 2 then EXISTING WELL Location East X 1970152 Y 235008 X 1975285 Y 234991 (31) ±2 miles 1417 **ELEVATION:** LOT 3 ó Gr. at Stake LANDING POINT 810'FSL-300'FEL NAD-27 (US Fee 35'38'25.8" N 98'05'02.9" W 35.640508353' N 98.084141961' W X 1974998 Y 233162 the 2380 Southeast E/2-SW/4 14N-R9 (NGVD29 corner LOT 4 230 잌 X 1972664 Y 232359 T14N-R8W Township Line 260% X 1975303 X 1975303 X 232352 X 232352 X 207565 X 20 T13N-R8W 28, Date of Drawing: <u>Jan.</u> was receiver accuracy. :<u>NAD-27</u> 35*38'20.4" Project # <u>123212A</u> Date Staked: <u>Jan. 23, 2019</u> TR DATUM: Ν LAT: LONG: 98'05'02.0" W **CERTIFICATE:** SURVE 35.638997549° N LAT: THOMAS L. I, Thomas L. Howell an Oklahoma Licensed Land Surveyor and an authorized agent of Topographic Land Surveyors of Oklahoma, do hereby certify to the Thomas L. Howell LONG: 98.083891841° W HOWELL STATE PLANE 1433 -34.19 COORDINATES: (US Feet) information shown herein. This hered ZONE: OK NORTH Nu X: 1975071 TLAHOMA. OKLAHOMA gath 232612 1433 Oklahoma Lic. No.