PI NUMBER: 153 23584 A	OKLAHOMA CORPORATION COMI OIL & GAS CONSERVATION DIV P.O. BOX 52000 OKLAHOMA CITY, OK 73152-2 (Rule 165:10-3-1)	Approval Date: 12/30/2019
	PERMIT TO DEEPEN	
	County: WOODWARD FROM QUARTER: FROM SOUTH FROM EAST ION LINES: 1323 1321	
Lease Name: CRITES	Well No: 2-13	Well will be 1321 feet from nearest unit or lease boundary.
Operator IOCHEM CORPORATION Name:	Telephone: 4058488611	OTC/OCC Number: 16346 0
IOCHEM CORPORATION 5801 N BROADWAY EXT STE 305 OKLAHOMA CITY, OK 7317	18-7483	BRA KAY CRITES, DEBRA CRITES GRIFFITH 1 WESTPORT ROAD 1 MARCOS CA 92078
Formation(s) (Permit Valid for Listed Formatic Name 1 MORROW SAND	ons Only): Depth Nai 9500 6	me Depth
2 3	7 8	
4	9	
5 Spacing Orders: 643785	10	
Spacing Orders: 043785	Location Exception Orders:	Increased Density Orders:
Pending CD Numbers:		Special Orders:
Total Depth: 11152 Ground Elevation: 2025	Surface Casing: 1521 IP	Depth to base of Treatable Water-Bearing FM: 340
Under Federal Jurisdiction: No	Fresh Water Supply Well Drilled: No	Surface Water used to Drill: No
PIT 1 INFORMATION	Approved Met	hod for disposal of Drilling Fluids:
Type of Pit System: CLOSED Closed System Means Steel P	its	
Type of Mud System: OIL BASED		
Chlorides Max: 300000 Average: 200000	H. CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST v base of pit? Y G. Haul to recycling/re-use facility: Sec. 1 Twn. 15N Rng. 11W Cnty. 11 Order No: 698697	
Is depth to top of ground water greater than 10ft below base of p Within 1 mile of municipal water well? N Wellhead Protection Area? N	ιτ <i>ι</i> Υ G. Haul to rec	ניטיאינא אופן דו איז איז אופן דער גענער געראט געראט געראט
Pit is located in a Hydrologically Sensitive Area.		
Category of Pit: C		
Liner not required for Category: C		
Pit Location is BED AQUIFER		
Pit Location Formation: RUSH SPRINGS		

HORIZONTAL HOLE 1

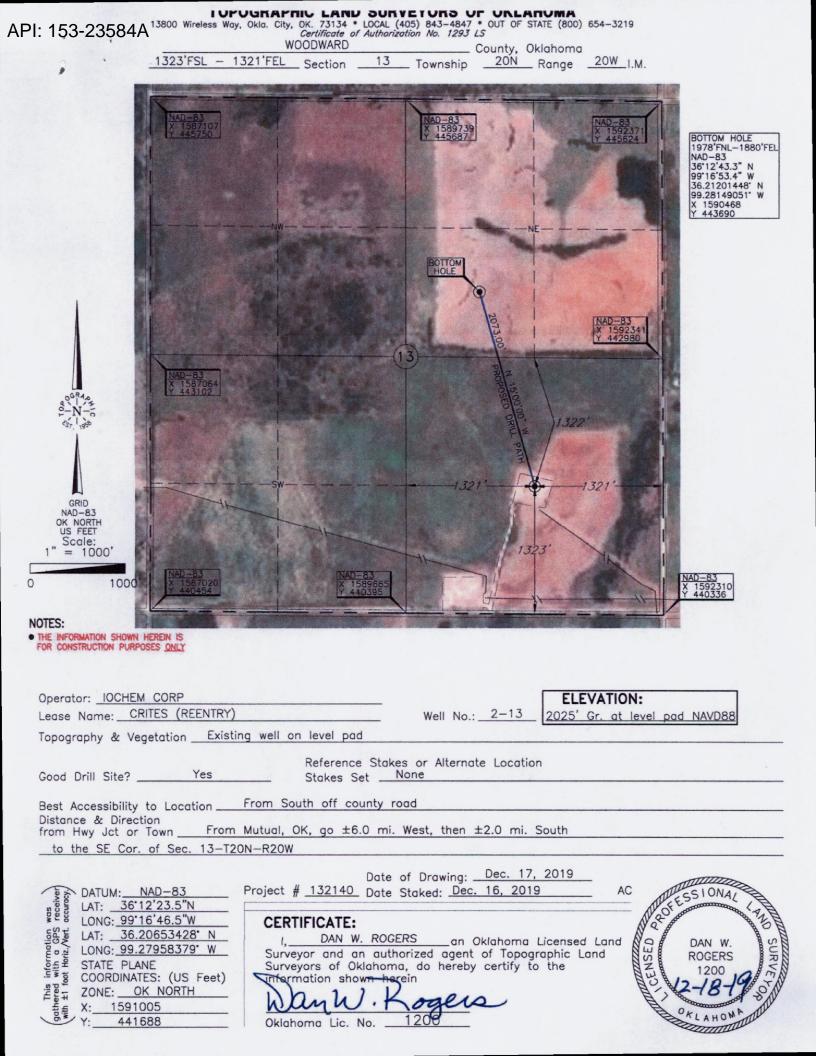
WOODWARD Sec 13 Twp 20N Rge 20W County Spot Location of End Point: SW NW SW NW Feet From: NORTH 1/4 Section Line: 1978 Feet From: EAST 1/4 Section Line: 1880 Depth of Deviation: 8720 Radius of Turn: 593 Direction: 345 Total Length: 1500 Measured Total Depth: 11152 True Vertical Depth: 9500 End Point Location from Lease. Unit. or Property Line: 0 Notes: Description Category DEEP SURFACE CASING 8/18/2016 - G71 - APPROVED: NOTIFY OCC FIELD INSPECTOR IMMEDIATELY OF ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON ANY CONDUCTOR OR SURFACE CASING HYDRAULIC FRACTURING 12/19/2019 - 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

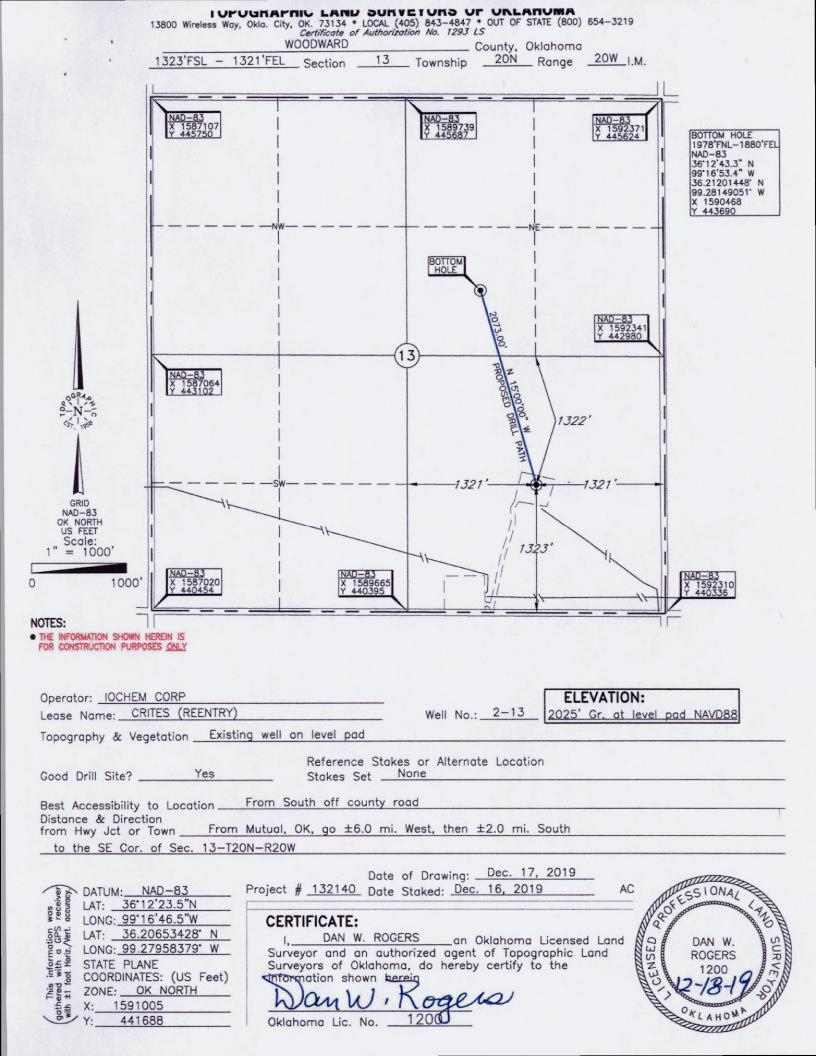
12/30/2019 - GC2 - (UNIT) 13-20N-20W

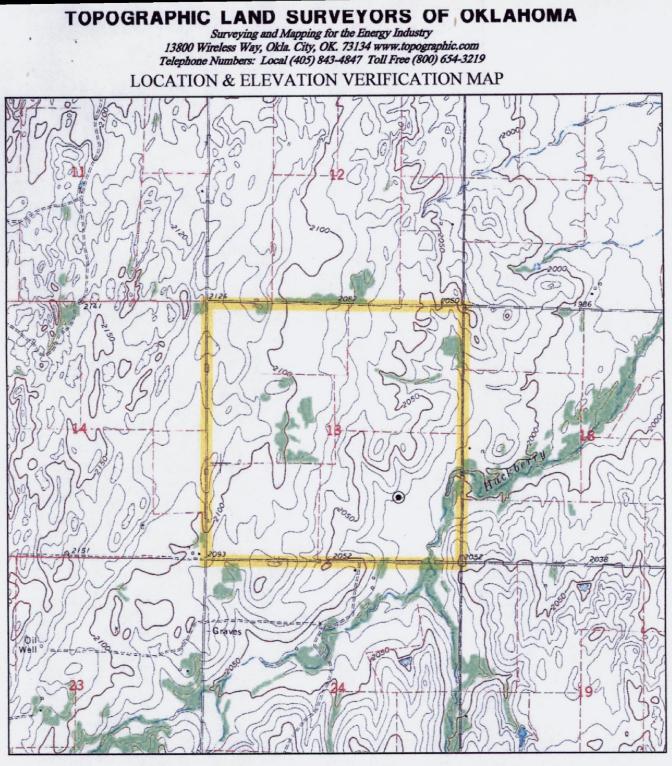
EST IOCHEM UNIT NO. 4 FOR BRINE PRODUCTION FROM MWSD

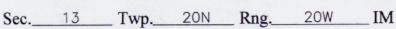
SPACING - 643785

This permit does not address the right of entry or settlement of surface damages. The duration of this permit is 18 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.









WOODWARD State OK County

Operator IOCHEM CORP

Description 1323'FSL - 1321'FEL

Lease CRITES (REENTRY) 2-13

Elevation 2025' Gr. at level pad NAVD88

Above Background Data from U.S.G.S. Topographic Map Scale: 1"=2000'

Contour Interval 10'

When elevation is shown hereon it is the ground elevation of the location stake. Review this plat and inform us immediately of any possible discrepancy.



LAND SURVEYORS OF OKLAHOMA

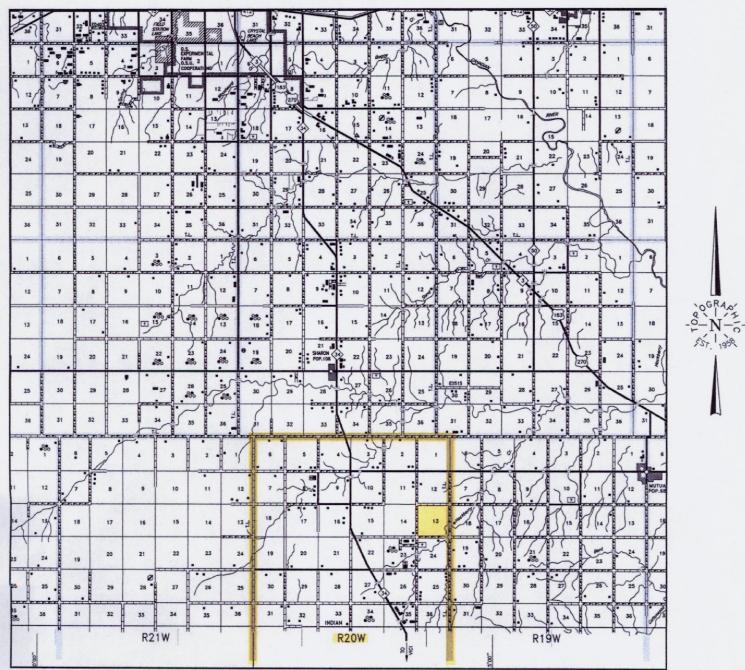
OGRAD

ST 1959

TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

Surveying and Mapping for the Energy Industry 13800 Wireless Way, Okla. City, OK. 73134 www.topographic.com Telephone Numbers: Local (405) 843-4847 Toll Free (800) 654-3219

VICINITY MAP



Scale: 1'' = 3 Miles

Sec. <u>13</u> Twp. <u>20N</u> Rng. <u>20W</u> IM

County_____OK____State____OK

Operator ___ IOCHEM CORP

