PI NUMBER: 017 25583	OIL & GAS COI P.O	PORATION COMMIS NSERVATION DIVISI . BOX 52000 CITY, OK 73152-200	on [	Approval Date: 01/02/2020 Expiration Date: 07/02/2021	
rizontal Hole Oil & Gas Iti Unit	(Rule 165:10-3-1)		- L		
	PER	MIT TO DRILL			
WELL LOCATION: Sec: 11 Twp: 14N Rge: 7W	County: CANADIAN				
SPOT LOCATION: NE SE SW SE	FEET FROM QUARTER: FROM SOUT	H FROM EAST			
	SECTION LINES: 678	1616			
Lease Name: BRUEGGEN 1407	Well No: 5H-2X		Well will be 67	8 feet from nearest	unit or lease boundary.
Operator NEWFIELD EXPLORATION MID-CO Name:	DN INC Tel	ephone: 2812105100; 918	8781 OT	C/OCC Number:	20944 0
NEWFIELD EXPLORATION MID-CON	NC	CYNTH	IIA K SCHROEDE	२	
4 WATERWAY AVE STE 100		15438	15438 W 149TH STREET		
THE WOODLANDS, TX	77380-2764	OLATH	IE	KS 66	062
Formation(s) (Permit Valid for Listed Formation	mations Only): Depth	Name		Depth	
1 MISSISSIPPIAN	8073	6			
2 WOODFORD	8557	7			
3		8 9			
4 5		10			
Spacing Orders: 604466	Location Exception Orders:	705664	Ingraada	d Density Orders:	705330
705658	Location Exception Orders.	705659	Inclease		705331
		100000			705332
					705333
Pending CD Numbers:			Special C	Orders:	
Total Depth: 18623 Ground Elevation: 11	43 Surface Casin	g: 1500	Depth to ba	se of Treatable Water-	Bearing FM: 210
		Deep surface ca	ising has been app	roved	
Under Federal Jurisdiction: No	Fresh Water Supply	Well Drilled: No		Surface Water us	ed to Drill: No
PIT 1 INFORMATION		Approved Method	for disposal of Drilling Flu	lids:	
Type of Pit System: CLOSED Closed System Means S	teel Pits				
Type of Mud System: WATER BASED		D. One time land	application (REQUIRE	S PERMIT)	PERMIT NO: 19-3717
Chlorides Max: 5000 Average: 3000		E. Haul to Comm	ercial pit facility: Sec. 31	Twn. 12N Rng. 8W Cnt	y. 17 Order No: 587498
Is depth to top of ground water greater than 10ft below ba Within 1 mile of municipal water well? N	se of pit? Y	H. SEE MEMO			
Wellhead Protection Area? N					
Pit is not located in a Hydrologically Sensitive Area. Category of Pit: C					
Liner not required for Category: C					
Pit Location is NON HSA					

PIT 2 INFORMATION Type of Pit System: CLOSED Closed System Means Steel Pits Type of Mud System: OIL BASED Chlorides Max: 300000 Average: 200000 Is depth to top of ground water greater than 10ft below base of pit?  $\ \ Y$ Within 1 mile of municipal water well? N Wellhead Protection Area? N Pit is not located in a Hydrologically Sensitive Area. Category of Pit: C Liner not required for Category: C

Pit Location is NON HSA Pit Location Formation: BISON

## HORIZONTAL HOLE 1

Sec 02 Tw	wp 14N	Rge 7W	County	CANADIAN
Spot Location of	End Point	: NE I	NE NW	NE
Feet From: N	NORTH	1/4 Section	Line: 85	5
Feet From: E	EAST	1/4 Section	Line: 14	120
Depth of Deviation: 7771				
Radius of Turn: 542				
Direction: 360				
Total Length: 10000				
Measured Total Depth: 18623				
True Vertical Depth: 8557				
End Point Location from Lease,				
Unit, or Pro	perty Line:	85		
Notes:				

	NOLES.		
	Category	Description	
	DEEP SURFACE CASING	12/30/2019 - G71 - APPROVED; NOTIFY OCC FIELD INSPECTOR IMMED OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE OR SURFACE CASING	
	EXCEPTION TO THE RULE - 705664 (201904752)	1/2/2020 - GC2 - (I.O.) 2 & 11-14N-7W X165:10-3-28(C)(2)(B) MSSP, WDFD (BRUEGGEN 1407 5H-2X) MAY BE CLOSER THAN 600' TO BRUEGGEN 1407 2H-2X, BRUEGGEN 1407 4H-2X, BRUEGGEN 1407 6H-2X, BRUEGGEN 1407 7H-2X, BRUEGGEN 1407 7H-2X, BRUEGGEN 1407 2X, VOSS 11-6 NO OP. NAMED 11-26-2019	
	HYDRAULIC FRACTURING	12/30/2019 - G71 - OCC 165:10-3-10 REQUIRES:	
		1) PRIOR TO COMMENCEMENT OF HYDRAULIC FRACTURING OPERAT WELLS, NOTICE GIVEN FIVE BUSINESS DAYS IN ADVANCE TO OFFSE WELLS COMPLETED IN THE SAME COMMON SOURCE OF SUPPLY WIT	T OPERATORS WITH
		2) WITH NOTICE ALSO GIVEN 48 HOURS IN ADVANCE OF HYDRAULIC WELLS TO BOTH THE OCC CENTRAL OFFICE AND LOCAL DISTRICT OF "FRAC NOTICE FORM" FOUND AT THE FOLLOWING LINK: OCCEWEB.COM/OG/OGFORMS.HTML; AND,	
		3) THE CHEMICAL DISCLOSURE OF HYDRAULIC FRACTURING INGREE TO BE REPORTED TO FRACFOCUS WITHIN 60 DAYS AFTER THE CONO HYDRAULIC FRACTURING OPERATIONS, USING THE FOLLOWING LINE	CLUSION THE
	INCREASED DENSITY - 705330 (201904734)	1/2/2020 - GC2 - (I.O.) 2-14N-7W X604466 MSSP 6 WELLS NEWFIELD EXPLORATION MID-CONTINENT INC 11-19-2019	
This permit does not address the right of entry or settlement of surface damages.			017 25583 BRUEGGEN 1407 5H-2X

INCREASED DENSITY - 705331 (201904735)	1/2/2020 - GC2 - 2-14N-7W X604466 WDFD 7 WELLS NEWFIELD EXPLORATION MID-CONTINENT INC 11-19-2019
INCREASED DENSITY - 705332 (201904736)	1/2/2020 - GC2 - (I.O.) 11-14N-7W X604466 MSSP 6 WELLS NEWFIELD EXPLORATION MID-CONTINENT INC 11-19-2019
INCREASED DENSITY - 705333 (201904737)	1/2/2020 - GC2 - 11-14N-7W X604466 WDFD 7 WELLS NEWFIELD EXPLORATION MID-CONTINENT INC 11-19-2019
LOCATION EXCEPTION - 705659 (201904747)	1/2/2020 - GC2 - (I.O.) 2 & 11-14N-7W X604466 MSSP, WDFD, OTHER 2 & 11-14N-7W COMPL. INT. (11-14N-7W) NCT 165' FSL, NCT 0' FNL, NCT 1,320' FEL COMPL. INT. (2-14N-7W) NCT 0' FSL, NCT 165' FNL, NCT 1,320' FEL NEWFIELD EXPLORATION MID-CONTINENT INC 11-26-2019
МЕМО	12/30/2019 - G71 - PIT 1 & 2 - CLOSED SYSTEM = STEEL PITS (REQUIRED - UNCLE JOHN CREEK), WBM/CUTTINGS & OBM CUTTINGS CAPTURED IN STEEL HALF PITS, WBM/CUTTINGS WILL BE SOIL FARMED, OBM CUTTINGS TRANSFERRED TO R360 587498 (31-12N-8W), CANADIAN CO, PIT 2 - OBM TO VENDOR
SPACING - 604466	1/2/2020 - GC2 - (640)(HOR) 2 & 11-14N-7W VAC OTHER VAC 127148 MSSLM VAC 286856 MCSMN EXT 599529 MSSP, WDFD, OTHER COMPL. INT. (MSSP) NCT 660' FB COMPL. INT. (WDFD) NCT 165' FNL/FSL, NCT 330' FEL/FWL
SPACING - 705658 (201904746)	1/2/2020 - GC2 - (I.O.) 2 & 11-14N-7W EST MULTIUNIT HORIZONTAL WELL X604466 MSSP, WDFD 2 & 11-14N-7W 50% 2-14N-7W 50% 11-14N-7W NEWFIELD EXPLORATION MID-CONTINENT INC 11-26-2019

