PI NUMBER: 017 25574 rizontal Hole Oil & Gas	OIL & GAS CO P.(OKLAHOM	RPORATION COMMISS DNSERVATION DIVISIO D. BOX 52000 A CITY, OK 73152-2000 Ile 165:10-3-1)		12/13/2019 06/13/2021	
	PE	RMIT TO DRILL			
WELL LOCATION: Sec: 01 Twp: 14N Rge: 8W	County: CANADIAN	N			
SPOT LOCATION: NW NE SE SE	FEET FROM QUARTER: FROM SOU	ITH FROM EAST			
	SECTION LINES: 1188	3 644			
Lease Name: GRELLNER 1408	Well No: 3-1	ИН	Well will be 644 feet from near	est unit or lease boundary.	
Operator MARATHON OIL COMPANY Name:	т	elephone: 4057285228	OTC/OCC Number:	1363 0	
MARATHON OIL COMPANY		NEAL R.	GOODWIN, TRUSTEE		
PO BOX 68		4909 SO	4909 SOUTH W STREET		
HOUSTON, TX 77001-0068		FORT SM		AR 72903	
1 MISSISSIPPIAN 2 3 4 5	9000	6 7 8 9 10			
Spacing Orders: 647318	Location Exception Orde	rs: 703838	Increased Density Orders:	705100	
Pending CD Numbers:			Special Orders:		
Total Depth: 12831 Ground Elevation: 120	7 Surface Cas	ing: 1500	Depth to base of Treatable Wate	er-Bearing FM: 360	
		Deep surface casi	ng has been approved		
Under Federal Jurisdiction: No	Fresh Water Supr	bly Well Drilled: No	Surface Water	used to Drill: Yes	
PIT 1 INFORMATION		Approved Method for	disposal of Drilling Fluids:	illina Fluids:	
Type of Pit System: CLOSED Closed System Means Stu	el Pits				
Type of Mud System: WATER BASED		D. One time land an	plication (REQUIRES PERMIT)	PERMIT NO: 19-3713	
Chlorides Max: 5000 Average: 3000		H. SEE MEMO			
Is depth to top of ground water greater than 10ft below base Within 1 mile of municipal water well? N	e of pit? Y				
Wellhead Protection Area? N					
Pit is not located in a Hydrologically Sensitive Area.					
Category of Pit: C					
Liner not required for Category: 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: CHICKASHA

HORIZONTAL HOLE 1

Sec 01 Twp 14N Rge 8W Coun	nty CANADIAN
Spot Location of End Point: NW NE NV	W NE
Feet From: NORTH 1/4 Section Line:	50
Feet From: EAST 1/4 Section Line:	1870
Depth of Deviation: 8523	
Radius of Turn: 477	
Direction: 343	
Total Length: 3559	
Measured Total Depth: 12831	
True Vertical Depth: 9007	
End Point Location from Lease,	
Unit, or Property Line: 50	
Notes:	
Category	Description
DEEP SURFACE CASING	12/9/2019 - 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	12/9/2019 - 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 HYDRAULI C FRACTURING ALL

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

INCREASED DENSITY - 705100 (201904486) 12/12/2019 - GC2 - 1-14N-8W X647318 MSSP 2 WELLS MARATHON OIL COMPANY 11-12-2019 INTERMEDIATE CASING 12/9/2019 - G71 - DUE TO THE KNOWN POTENTIAL RISK OF ENCOUNTERING AN OVER-PRESSURED ZONE IN THE MORROW SERIES IN THIS AREA, THE TECHNICAL MANAGER RECOMMENDS SETTING AN INTERMEDIATE STRING OF CASING IMMEDIATELY ABOVE THE MORROW SERIES

LOCATION EXCEPTION - 703838 (201904485)	12/12/2019 - GC2 - (I.O.) 1-14N-8W X647318 MSSP COMPL. INT. NCT 150' FNL, NCT 150' FSL, NCT 330' FEL MARATHON OIL COMPANY 10-17-2019
MEMO	12/9/2019 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT
SPACING - 647318	12/12/2019 - GC2 - (640)(HOR) 1-14N-8W EXT 633940 MSSP EST OTHER COMPL. INT. NLT 660' FB (EXIST CONCURRENTLY NON-HORIZONTAL DRILLING AND SPACING UNITS)

