PI NUMBER: 051 24079 rizontal Hole Oil & Gas WELL LOCATION: Sec: 27 Twp: 5N Rge: 6W SPOT LOCATION: SE NE NE SW	OIL & GAS OKLAHO V County: GRAE	CORPORATION COMI S CONSERVATION DIV P.O. BOX 52000 DMA CITY, OK 73152-2 (Rule 165:10-3-1) PERMIT TO DRILL PY SOUTH FROM WEST 2091 2435		pproval Date: 11/03/2016 xpiration Date: 05/03/2017
Lease Name: PAULINE	Well No:	4-27X22H	Well will be 2091 f	eet from nearest unit or lease boundary.
Operator VITRUVIAN II WOODFORD LLC Name:		Telephone: 8324583149	OTC/00	CC Number: 23144 0
VITRUVIAN II WOODFORD LLC 4 WATERWAY SQ PL STE 400 THE WOODLANDS, TX	77380-2692	990	ARLES L. WILSON 5 SOUTH MORGAN ROA STANG	D OK 73064
Formation(s) (Permit Valid for Listed For Name 1 SYCAMORE 2 WOODFORD 3 HUNTON 4 5	mations Only): Depth 14648 15033 15260	Nai 6 7 8 9 10	ne	Depth
Spacing Orders: 202704 408097 112036 446322	Location Exception	Orders:	Increased D	ensity Orders:
Pending CD Numbers: 201604546 201604548 201604607 201604608			Special Orde	ers:
Total Depth: 24200 Ground Elevation: 17	Surface (Casing: 2500	Depth to base of	Treatable Water-Bearing FM: 310
Under Federal Jurisdiction: No PIT 1 INFORMATION		Supply Well Drilled: No Approved Meti	nod for disposal of Drilling Fluids:	Surface Water used to Drill: Yes
Type of Pit System: CLOSED Closed System Means 3 Type of Mud System: WATER BASED Chlorides Max: 5000 Average: 2500 Is depth to top of ground water greater than 10ft below ba Within 1 mile of municipal water well? N Wellhead Protection Area? N Pit is located in a Hydrologically Sensitive Area. Category of Pit: C Liner not required for Category: C Pit Location is ALLUVIAL		D. One time I H. SEE MEM	and application (REQUIRES PEF	RMIT) PERMIT NO: 16-31753

This permit does not address the right of entry or settlement of surface damages. The duration of this permit is SIX 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. PIT 2 INFORMATION Type of Pit System: CLOSED Closed System Means Steel Pits Type of Mud System: OIL BASED Chlorides Max: 325000 Average: 285000 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 located in a Hydrologically Sensitive Area. Category of Pit: C Liner not required for Category: C

Pit Location is ALLUVIAL
Pit Location Formation: ALLUVIUM

HORIZONTAL HOLE 1

Sec	22	Twp	5N	Rge	6W	V	County	GRADY
Spot	Locatior	n of En	d Poin	t: N2	2	NE	NE	NW
Feet	From:	NOF	RTH	1/4 Se	ctior	n Line	e: :	25
Feet	From:	WE:	ST	1/4 Se	ctior	n Line	e:	2310
Depth of Deviation: 14711								
Radius of Turn: 750								
Direction: 359								
Total Length: 8311								
Measured Total Depth: 24200								
True Vertical Depth: 15260								
End Point Location from Lease,								
Unit, or Property Line: 25								

Notes:	
Category	Description
DEEP SURFACE CASING	10/31/2016 - G71 - APPROVED WITH THE FOLLOWING CONDITIONS; 1) NOTIFY OCC FIELD INSPECTOR IMMEDIATELY FOR ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON CONDUCTOR OR SURFACE CASING; AND, 2) TWO-STAGE CEMENTING TOOL TO BE SET NO DEEPER THAN 100' BELOW BTW
HYDRAULIC FRACTURING	10/31/2016 - G71 - OCC 165:10-3-10 REQUIRES: 1) THE CHEMICAL DISCLOSURE OF HYDRAULIC FRACTURING INGREDIENTS FOR ALL WELLS BE REPORTED TO FRACFOCUS USING THE FOLLOWING LINK HTTP://FRACFOCUS.ORG/ WITH NOTICE GIVEN 48 HOURS IN ADVANCE OF FRACTURING TO THE LOCAL OCC DISTRICT OFFICE; AND, 2) PRIOR TO COMMENCEMENT OF FRACTURING OPERATIONS FOR HORIZONTAL WELLS, NOTICE ALSO GIVEN FIVE BUSINESS DAYS IN ADVANCE TO OFFSET OPERATORS WITH WELLS COMPLETED IN THE SAME COMMON SOURCE OF SUPPLY WITHIN 1/2 MILE.
MEMO	10/31/2016 - G71 - PIT 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST; PIT 2 - OBM TO VENDOR, OBM CUTTINGS PER DISTRICT
PENDING CD - 201604546	10/31/2016 - G75 - (E.O.) 22 & 27-5N-6W EST SIX (6) MULTIUNIT HORIZONTAL WELLS X202704 SCMR, HNTN 22-5N-6W X408097 WDFD 22-5N-6W X112036 SCMR 27-5N-6W X446322 WDFD, HNTN 27-5N-6W (SCMR, HNTN ASSOCIATED COMMON SOURCES OF SUPPLY TO WDFD) 66.67% 22-5N-6W 33.33% 27-5N-6W NO OP. NAMED REC 10-21-2016 (P. PORTER)

051 24079 PAULINE 4-27X22H

Category	Description
PENDING CD - 201604548	10/31/2016 - G75 - (I.O.) 22 & 27-5N-6W X202704 SCMR, HNTN 22-5N-6W X408097 WDFD 22-5N-6W X112036 SCMR 27-5N-6W X446322 WDFD, HNTN 27-5N-6W COMPL. INT. (27-5N-6W) NCT 2450' FSL, NCT 0' FNL, NCT 2200' FWL COMPL. INT. (22-5N-6W) NCT 2450' FSL, NCT 150' FNL, NCT 2200' FWL NO OP. NAMED REC 11-1-2016 (THOMAS)
PENDING CD - 201604607	10/31/2016 - G75 - 22-5N-6W X202704 SCMR, HNTN X408097 WDFD 6 WELLS NO OP. NAMED REC 11-1-2016 (THOMAS)
PENDING CD - 201604608	10/31/2016 - G75 - 27-5N-6W X112036 SCMR X446322 WDFD, HNTN 6 WELLS NO OP. NAMED REC 11-1-2016 (THOMAS)
SPACING - 112036	10/31/2016 - G75 - (640) 27-5N-6W EXT 94778 SCMR, OTHER
SPACING - 202704	10/31/2016 - G75 - (640) 22-5N-6W EXT OTHERS EXT 112036 SCMR, OTHER EST HNTN, OTHERS
SPACING - 408097	10/31/2016 - G75 - (640) 22-5N-6W EXT OTHERS EXT 209018 WDFD, OTHER
SPACING - 446322	10/31/2016 - G75 - (640) 27-5N-6W EXT 408097 WDFD, HNTN, OTHERS EXT OTHERS
WATERSHED STRUCTURE	10/31/2016 - G71 - WELL WITHIN 1/2 MILE OF AN OKLAHOMA CONSERVATION COMMISSION WATERSHED STRUCTURE. CONTACT THE LOCAL CONSERVATION DISTRICT OFFICE AT (405) 224-0523 PRIOR TO DRILLING