API NUMBER: 017 25568 Α **OKLAHOMA CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION** P.O. BOX 52000 **OKLAHOMA CITY, OK 73152-2000** (Rule 165:10-3-1)

Approval Date: 12/03/2019 06/03/2021 Expiration Date:

Multi Unit Oil & Gas

Amend reason: UPDATE SHL, BHL, AND ORDERS

iend reason: OPDA1	E SHL, BHL,	AND ORDE	K3		AN	IENE) PER	<u>MI</u>	T TO DRI	<u>ILL</u>							
WELL LOCATION:	Section:	22	Township): 12N	Range:	8W	County: 0	CANA	DIAN								
SPOT LOCATION:	N2 S	w	SE	FEET FRO	OM QUARTER:	FROM	SOUTH	FRO	M EAST								
				SE	ECTION LINES:		335		2310								
Lease Name:	CROOKED	PINE 22_1	5-12N-8W			Well No:	4MHX			Well wil	lbe 3	35 fe	et from	nearest uni	t or leas	e boundary.	
Operator Name:	PALOMA O	PERATING	CO INC		Te	elephone:	71365085	509					ОТС	/OCC Nun	nber:	23932 0	
PALOMA OP	ERATING	CO INC															
1100 LOUISI	ANA ST S	ΓE 5100							PATRICIA HA	RTWIG							
HOUSTON,			TX	77002-	5220			3305 WINDSOR BOULEVARD									
,									OKLAHOMA (CITY			OK	73122			
								l L									
Formation(s)	(Permit \	alid for L	isted Fo	rmations	Only):												
Name			Cod	е		Depth											
1 MISSISSIPE	ગ		3511	MISS		10553											
2 MISSISSIPF	PIAN		3591	MSSP		10670											
Spacing Orders:	143998				Locat	ion Excep	otion Orders	s: 7	705401			Increa	sed Den	sity Orders:	7044	70	
	688916														7062	79	
	704467										_						
Pending CD Numb	ers: No Per	nding											Spe	cial Orders:	No Sp	ecial Orders	
Total Depth: 2	20959	Ground	Elevation:	1437	Sı	ırface	Casing:	150	0	De	epth to b	ase of Tr	reatable	Water-Beari	ng FM:	340	
												Dee	p surfa	ace casin	g has l	peen appro	
Under	Federal Juriso	diction: No)					A	approved Method	for disposal of	Drilling	Fluids:					
Fresh Water Supply Well Drilled: No								D. One time land application (REQUIRES PERMIT) PERMIT NO: 19-37074									
Surface	e Water used	o Drill: No	1						. Haul to Commerc								
PIT 1 INFOR	MATION								Categ	gory of Pit: C							
Type of Pit System: CLOSED Closed System Means Steel Pits									Liner not required for Category: C								
Type of Mud System: WATER BASED								Pit Location is: NON HSA									
Chlorides Max: 5000 Average: 3000						Pit Location Formation: DOG CREEK											
Is depth to	top of ground	water great	ter than 10f	t below base	of pit? Y												
Within 1	mile of munici	oal water we	ell? N														
	Wellhead Pr	otection Are	∍a? N														
Pit <u>is not</u> l	ocated in a Hy	drologically	Sensitive A	√rea.													
PIT 2 INFOR	MATION								Categ	gory of Pit: C							
Type of Pit System: CLOSED Closed System Means Steel Pits							Liner not required for Category: C										
Type of Mud System: OIL BASED							Pit Location is: NON HSA										
Chlorides Max: 30									Pit Location F	ormation: DC	G CREE	K					
Is depth to	top of ground	water great	er than 10f	t below base	of pit? Y												
Within 1	mile of munici	oal water we	ell? N														

Wellhead Protection Area? N

is not located in a Hydrologically Sensitive Area.

Pit

MULTI UNIT HOLE 1

Section: 15 Township: 12N Range: 8W Total Length: 10155

County: CANADIAN Measured Total Depth: 20959

Spot Location of End Point: NW NE NW NE True Vertical Depth: 10670

Feet From: NORTH 1/4 Section Line: 65 End Point Location from
Feet From: EAST 1/4 Section Line: 1900 Lease,Unit, or Property Line: 65

NOTES:	
Category	Description
DEEP SURFACE CASING	11/12/2019 - 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	11/12/2019 - 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
INCREASED DENSITY - 704470 (201904574)	12/3/2019 - GC2 - 15-12N-8W X143998 MISS 4 WELLS PALOMA PARTNERS IV, LLC 10-30-2019
INCREASED DENSITY - 706279 (201904575)	2/26/2019 - GC2 - 22-12N-8W X688916 MSSP 4 WELLS NO OP. NAMED 12-12-2019
LOCATION EXCEPTION - 705401 (201904571)	12/3/2019 - GC2 - (I.O.) 15 & 22-12N-8W X143998 MISS 15-12N-8W X688916 MSSP 22-12N-8W COMPL. INT. (22-12N-8W) NCT 165' FSL, NCT 0' FNL, NCT 650' FEL COMPL. INT. (15-12N-8W) NCT 0' FSL, NCT 165' FNL, NCT 650' FEL PALOMA PARTNERS IV, LLC 11-20-2019
МЕМО	11/12/2019 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT
SPACING - 143998	12/3/2019 - GC2 - (640) 15-12N-8W EXT 122864/137298 MISS EXT OTHER
SPACING - 688916	12/3/2019 - GC2 - (640)(HOR) 22-12N-8W EST MSSP, OTHER COMPL. INT. (MSSP) NCT 660' FB
SPACING - 704467 (201904567)	12/3/2019 - GC2 - (I.O.) 15 & 22-12N-8W EST MULTIUNIT HORIZONTAL WELL X143998 MISS 15-12N-8W X688916 MSSP 22-12N-8W 50% 15-12N-8W 50% 22-12N-8W PALOMA PARTNERS IV, LLC 10-30-2019

TOPOGRAPHIC LAND SURVEYORS

13800 Wireless Way, Okla. City, OK. 73134 * LOCAL (405) 843-4847 * OUT OF STATE (800) 654-3219

Certificate of Authorization No. 1292 LS API: 017-25568A CANADIAN County, Oklahoma
12N Range 335'FSL-2310'FEL 22 8W Section _ Township Range X 1992477 Y 190182 PROPOSED BOTTOM HOLE X 1989826 Y 190184 BOTTOM HOLE 65'FNL-1900'FEL 35'31'20.2" N 98'01'54.0" W 35.522282041' N 98.031667770' W X 1990576 Y 190118 KICKOFF POINT, FIRST TAKE POINT, BOTTOM HOLE, AND DRILL PATH INF PROVIDED BY OPERATOR LISTED, NO PROPOSED LAST TAKE POINT 165'FNL-1900'FEL 35'31'19.2" N 98'01'54.0" W 35.522007318' N 98.031668667' W X 1990576 Y 190018 FOR SHOWN HEREIN IS N PURPOSES ONLY DINT, LAST TAKE PO H INFORMATION D, NOT SURVEYED. GRID NAD-27 OK NORTH US Feet X 1992469 Y 187550 1987187 187544 SCALE: 1000 POINT, (15)1000 Best Accessibility to Lo Distance & Direction from Hwy Jct or Town Good Operator: Drill Hwy PALOMA ጵ Then Vegetation EXISTING WELL ±585' W. OF DRILL PATH EXISTING WELL ±2391' W. OF DRILL PATH OPERATING Location From Yes miles Location COMPANY, X 1989827 Y 184907 X 1992461 Y 184913 the West From fell to ROPOSED South on NC. the UOI) Reference S Stakes Set Stakes existing of SE off SU county Hwy PATH Stakes or None pad of 270/1-40 road 0 Section EXISTING WELL ±892' W. OF DRILL PATH EXISTING WELL ±2354' W. OF DRILL PATH WeⅡ Alternate and No.: X 1987185 Y 182263 X 1992462 Y 182275 T12N-R8W SN 4MHX Location Hwy 22 PROPOSED KICKOFF POINT 330'FNL-1900'FEL (SECTION 27) 35'29'33.2" N 98'01'54.2" W 35.492569019' N 98.031723164' W X 1990556 Y 179303 00 90 **ELEVATION:** EXISTING WELL ±1260' W. OF DRILL PATH 9 3 2302 9 les SE PROPOSED FIRST TAKE POINT 165'FSL-1900'FEL 35'29'38.1" N 98'01'54.2" W 35.493928900' N 98.031723170' W X 1990557 Y 179798 Existing 9 Pad 1987186 179629 99245 (179635 SECTION 27 NW/4 POINT Revision 🛛 3 Date of Drawing: Feb. 6, 20 Project # 128279 Date Staked: Oct. 21, 2019 Revision X 3 2020 DATUM: NAD-27 LAT: 35'29'39.8" N LONG: 98'01'59.2" W NAD-27**CERTIFICATE:** SURVE LAT: 35.494394456' N Thomas L. Howell an Oklahoma Licensed Land LONG: 98.033098849° Surveyor and an authorized agent of Topographic Land STATE PLANE Surveyors, do hereby certify to the information 1433 COORDINATES: (US Feet) shown herein. O'ALAHOMA AND THE This nered ZONE: OK NORTH X:___1990147 Mom 179967 Oklahoma Lic. No.

TOPOGRAPHIC LAND SURVEYORS

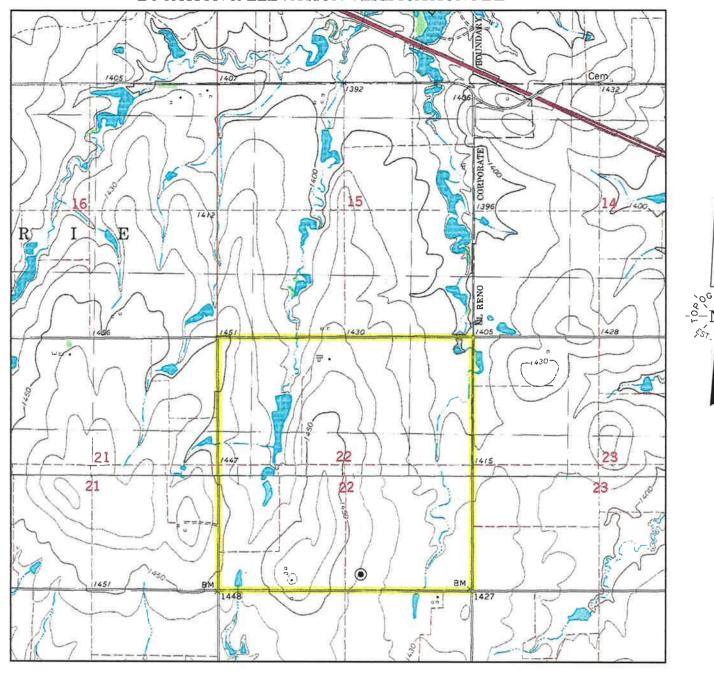
13800 Wireless Way, Okla, City, OK. 73134 * LOCAL (405) 843-4847 * OUT OF STATE (800) 654-3219

CANADIAN CONTROL OF CANADIAN County, Oklahoma 335'FSL-2310'FEL 8W Section X 1992477 Range Township X 1987167 Y 190186 KICKOFF POINT, FIRST TAKE POINT, LAST TAKE POTTOM HOLE, AND DRILL PATH INFORMATION PROVIDED BY OPERATOR LISTED, NOT SURVEYED. FOR CONSALUCTION PURPOSES ONLY GRID NAD-27 OK NORTH US Feet SCALE: = 1000' POINT, 1000 Distance & Direction from Hwy Jct or Town Operator: lopography & Vegetation Accessibility to Drill Site? PALOMA OPERATING DRILL PATH Location From Location fell COMPANY, 22-15-12N-8W H 1989827 1**84907** the junction on Reference Stakes Stakes Set <u>No</u> existing <u></u> SE off S Hwy 270/1-40 road Section EXISTING WELL ±2354' W. OF 9 Alternate Location and No.: S 1987185 4MHX Hwy ∞ **ELEVATION:** miles South on Pad 1987186 Date of Drawing: ____ Date Staked: __Oct. 2020 6, Revision X 3 Feb. ESSIONAL DATUM: NAD-27 LAT: 35°29'39.8" N LONG: 98°01'59.2" W Project # <u>128279</u> **CERTIFICATE:** LAT: 35.49**439**4456° N THOMAS L I, Thomas L. Howell an Oklahoma Licensed Land Surveyor and an authorized agent of Topographic Land Surveyors, do hereby certify to the information Thomas L. Howell LONG: 98.033098849° W STATE PLANE COORDINATES: (US Feet) HOWELL shown herein. ZONE: OK NORTH X:___1990147 A L A H O W A OKLAHOMA home Oklahoma Lic. No.

TOPOGRAPHIC LAND SURVEYORS

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

LOCATION & ELEVATION VERIFICATION MAP



Sec. 22 Twp. 12N Rng. 8W I.M.

County____CANADIAN State OK

Operator PALOMA OPERATING COMPANY, INC.

Description 335'FSL-2310'FEL

Lease CROOKED PINE 22-15-12N-8W 4MHX

Elevation____1437' Gr. on Existing Pad

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

Contour Interval 10'

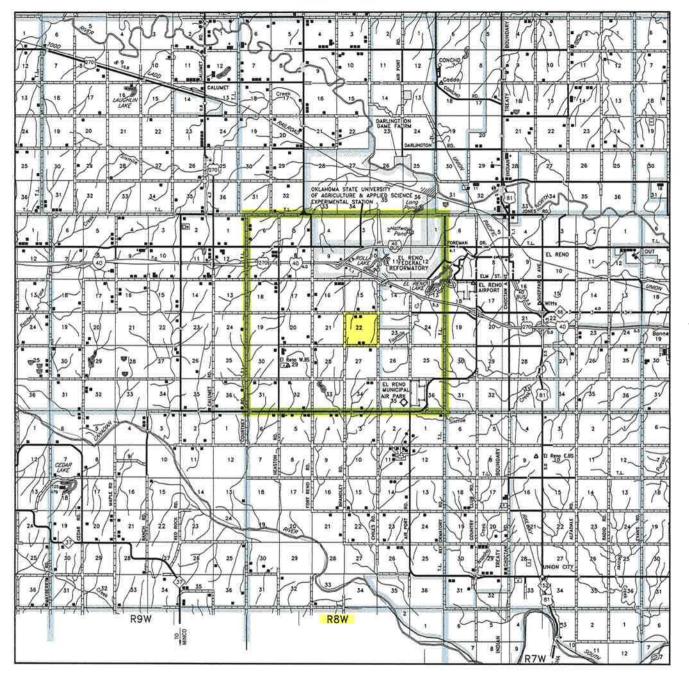
When elevation is shown hereon it is the ground elevation of the location stake. Review this plat and inform us immediately of any possible discrepancy.



TOPOGRAPHIC LAND SURVEYORS

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

VICINITY MAP



Scale: 1'' = 3 Miles

Sec. 22 Twp. 12N Rng. 8W I.M.

County_____ CANADIAN State____ OK

Operator_____PALOMA OPERATING COMPANY, INC._

