API NUMBER: 093 25173

Pit Location is BED AQUIFER Pit Location Formation:

MARLOW

Oil & Gas

Horizontal Hole

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

11/06/2018 Approval Date: 05/06/2020 **Expiration Date**

500 feet from nearest unit or lease boundary.

22182 0

ELL LOCATION: Sec: 14 Twp: 21 OT LOCATION: SE NE NW	N Rge:	16W County: M FEET FROM QUARTER: FROM SECTION LINES:		EAST 1580
Lease Name: CZARINA		Well No	o: 1-11H	Well
Operator RIVIERA OPERATING Name:	LLC		Telephone: 2	818404234; 4052412
	TX	77002-3005	Telephone: 2	PITTMAN RANG P.O. BOX 10

OK 73663

OTC/OCC Number:

Formation(s) (Permit Valid for Listed Formations Only): Depth Name Name Depth MISSISSIPPI LIME 8300 1 6 2 7 3 8 4 9 10 246217 Spacing Orders: Location Exception Orders: Increased Density Orders: Pending CD Numbers: 201807780 Special Orders: Total Depth: 13980 Ground Elevation: 1776 Surface Casing: 740 Depth to base of Treatable Water-Bearing FM: 490 Under Federal Jurisdiction: No Fresh Water Supply Well Drilled: No Surface Water used to Drill: No Approved Method for disposal of Drilling Fluids: PIT 1 INFORMATION Type of Pit System: CLOSED Closed System Means Steel Pits Type of Mud System: WATER BASED D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 18-35785 H. SEE MEMO Chlorides Max: 8000 Average: 5000 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? located in a Hydrologically Sensitive Area. Category of Pit: C Liner not required for Category: C

PIT 2 INFORMATION

Type of Pit System: CLOSED Closed System Means Steel Pits

Type of Mud System: OIL BASED
Chlorides Max: 350000 Average: 250000

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 BED AQUIFER
Pit Location Formation: MARLOW

HORIZONTAL HOLE 1

Sec. 11 Twp 21N Rge 16W County **MAJOR** Spot Location of End Point: ΝE NE NW NF Feet From: NORTH 1/4 Section Line: 50 Feet From: EAST 1/4 Section Line: 1580

Depth of Deviation: 7762 Radius of Turn: 750 Direction: 360

Total Length: 5040

Measured Total Depth: 13980
True Vertical Depth: 8607
End Point Location from Lease,
Unit, or Property Line: 50

Notes:

MEMO

Category Description

BOTTOM-HOLE LOCATION 11/6/2018 - G75 - 11-21N-16W PER REVISED STAKING PLAT

HYDRAULIC FRACTURING 11/2/2018 - 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 11/2/2018 - G71 - PIT 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST: PIT 2 -

OBM TO VENDOR, OBM CUTTINGS PER DISTRICT

PENDING CD - 201807780 11/5/2018 - G75 - (I.O.) 11-21N-16W

XOTHER X246217 MSSLM

COMPL. INT. NCT 165' FSL, NCT 165' FNL, NCT 330' FEL

NO OP. NAMED

REC 10-23-2018 (DENTON)

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.

Category

SPACING - 246217

Description

11/5/2018 - G75 - (640) 11-21N-16W EST OTHERS EXT 145279 MSSLM, OTHERS

TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA
Wireless Way, Okla. City, OK. 73134 (405) 843-4847 * OUT OF STATE (800) 65
Certificate of Authorization No. 1293 LS STATE (800) 654-3219 API 093-25173 13800 MAJOR County, Oklahoma
21N Range 16W I.M. SHL 500'FNL 1580'FEL 14 Range Township Section 16W_I.M. 21N 1580'FEL 11 BHL 50'FNL Section Township _ Range X 1740831 Y 481196 FINAL/TD X 1743463 Y 481122 The 1738200 481270 construction information 1052 LAST TAKE POINT
165'FNL-1580'FEL
NAD-27 (US Feet)
36'19'05.5" N
98'52'34.1" W
36.318192492' N
98.876148991' W
X=1741881
Y=481001 1580 FINAL/TD 50'FNL-1580'FEL NAD-27 (US Feet) 36'19'06.6" N 98'52'34.1" W 36.318508431' N 98.876147297' W X=1741882 Y=481116 LAST TAKE POINT 0 GR4 A F NOTE: -0 purposes 2573 herein GRID NAD-27 OK NORTH US Feet ō X 1743428 Y 478501 1738162 478641 Distance & from Hwy Good Operator: Topography & then Accessibility Drill ±0.25 mi. West through Sec. & Direction y Jct or Town RIVIERA OPERATING, Site? Vegetation FIRST TAKE POINT 165'FSL-1580'FEL NAD-27 (US Feet) 36'18'16.9" N 98'52'34.4" W 36.304686860' N 98.876221370' W X=1741815 Y=476085 to PROPOSED Location Yes From DRILL Loc. PAT fell 1738124 476012 Chester, From X 1743393 Y 475881 ⊇. 13 to the NE/4 of Sec. sloped WS KICK OFF POINT, FIRST TAKE POINT, LAST TAKE PO S, off Stakes Reference Stakes or Stakes Set None 90 1580 pasture, ±3.0 Set road ∄. 100' North, KICK OFF POINT 416'FNL-1581'FEL NAD-27 (US Feet) 36'18'11.1" N 98'52'34.4" W 36.303090684' N 98.876225604' W X=1741809 Y=475504 2123 14-T21N-R16W WeⅡ Alternate Location then of. No. ±2.0 1 X 1738117 Y 473384 POINT, F. 1 1H road m. I, FINAL/TD AND STED, NOT SURVEYED. East, X 1743373 Y 473260 **ELEVATION**: then ±3.0 Stake]∄. X 1740732 Y 470697 T' T' Oct. 25, 2018 Date of Drawing: _ Invoice # 301984 Date Staked: Sep. 06, DATUM:_ 2018 AC was receiver accuracy. NAD-LAT: 36'18'10.3"N LONG: 98'52'34.4"W **CERTIFICATE:** is information ved with a GPS foot Horiz./Vert. LAT: 36.302859888° N Thomas L. Howell SURVE an Oklahoma Licensed Land CENSED LONG: 98.876220399° W Surveyor and an authorized agent of Topographic Land STATE PLANE Surveyors of Oklahoma, do hereby certify to the 1433 COORDINATES: (US Feet) information shown herein This hered 1 ±1 fo OK LAHOMA ZONE: <u>OK NÖRTH</u> 1. Nwa 1741809 X: 475420 1433 Oklahoma Lic. No.