API NUMBER: 047 25146

Chlorides Max: 8000 Average: 5000

Liner not required for Category: C Pit Location is BED AQUIFER Pit Location Formation:

Wellhead Protection Area?

Category of Pit: C

Within 1 mile of municipal water well? N

is located in a Hydrologically Sensitive Area.

BISON

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)

05/14/2018 Approval Date: Expiration Date: 11/14/2018

PERMIT TO DRILL

WELL COATION O OF THE	0 4 0405151.0		
WELL LOCATION: Sec: 03 Twp: 20N Rge: 7W SPOT LOCATION: SE SW SE SE FEET FRC	County: GARFIELD OM QUARTER: FROM SOUTH FE	ROM EAST	
SECTION		760	
Lease Name: SHADOWCREEK 2007	Well No: 1LMH-10	Well will b	be 250 feet from nearest unit or lease boundary.
Operator CHAPARRAL ENERGY LLC Name:	Telephon	e: 4054264451; 4054264	OTC/OCC Number: 16896 0
CHAPARRAL ENERGY LLC 701 CEDAR LAKE BLVD OKLAHOMA CITY, OK 73114	1-7800	CHAPARRAL REAL 701 CEDAR LAKE I OKLAHOMA CITY	
Formation(s) (Permit Valid for Listed Formation	s Only): Depth	Name	Depth
1 MISSISSIPPIAN	6962	6	
2 3		7 8	
4		9	
5		10	
Spacing Orders: No Spacing	Location Exception Orders:		Increased Density Orders:
Pending CD Numbers: 201803203			Special Orders:
Total Depth: 12200 Ground Elevation: 1215	Surface Casing: 6	60 De _l	pth to base of Treatable Water-Bearing FM: 410
Under Federal Jurisdiction: No	Fresh Water Supply Well [Orilled: No	Surface Water used to Drill: Yes
PIT 1 INFORMATION		Approved Method for disposal of Drilling Fluids:	
Type of Pit System: CLOSED Closed System Means Steel Pits			
Type of Mud System: WATER BASER		D. One time land application (PI	EQUIDES DEDMIT) DEDMIT NO. 10 24461

H. CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST

HORIZONTAL HOLE 1

Sec 10 Twp 20N Rge 7W County GARFIELD

Spot Location of End Point: SW SE SE SE Feet From: SOUTH 1/4 Section Line: 165
Feet From: EAST 1/4 Section Line: 380

Depth of Deviation: 6578
Radius of Turn: 434
Direction: 175
Total Length: 4941

Measured Total Depth: 12200
True Vertical Depth: 7377
End Point Location from Lease,
Unit, or Property Line: 165

Notes:

Category Description

HYDRAULIC FRACTURING 5/9/2018 - 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

PENDING CD - 201803203 5/14/2018 - G58 - (E.O.) 10-20N-7W

X626446 MSSP

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

NO OP. NAMED

REC 5/7/2018 (THOMAS)

SPACING - 626446 5/14/2018 - G58 - (640)(HOR) 10-20N-7W

EST MSSP, OTHERS COMPL. INT. NCT 660' FB

(EXIST CONCURRENTLY WITH PRODUCING NON-HORIZONTAL UNITS)

TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

13800 WIRELESS WAY, OKLA. CITY, OKLA. 73134 * LOCAL (405) 843-4847 * OUT OF STATE (800) 654-3219

Certificate of Authorization No. 1293 LS. GARFIELD _ County, Oklahoma 047-25146 250'FSL-760'FEL Section 20N Range 7W I.M. _ Township 721N-R7W 5th STANDARD PARALLEL NORTH Township Line-P LANDING POINT, BOTTOM HOLE AND DRILL PATH INFORMATION PROVIDED BY OPERATOR LISTED, NOT SURVEYED. TZON-R7W X 2019518 Y **453496** X 2016898 Y 453487 LOT 4// LOT 1 LOT 3 LOT 2 S/2-NE/4 S/2-NW/4 GRID NAD-27
OK NORTH
US FEET
Scale:
' = 1000' 3 X 2022144 Y 451101 1000' X 2016890 Y 451131 Best Accessibility to Lo Distance & Direction from Hwy Jct or Town Good Lease Operator: Topography Drill Name: Site? CHAPARRAL 80 Vegetation SHADOWCREEK Location ENERGY From Conductor X 2016882 Y 448490 X 2019516 Y 448471 760 E 250 Waukomis 5268 X 2022150 Y 448452 PROPOSED LANDING POINT 165'FNL-380'FEL 36'13'53.4" N 97'55'34.3" W 36.23'1509621 N 97.926189571" Y X: 2021770 Y: 448290 Reference S Stakes Set 9 Oklahoma, existing South Stakes or None go of H location 79.55 Ve⊞ miles Alternate No.: 4941" South 1LMH-10 Location (10) 9 X 2016903 Y 445848 X 2022153 Y 445817 S.U Hwy ELEVATION: 1215' on Existing 000 PROPOSED BOTTOM HOLE 165'FSL-380'FEL 36'13'04.6" N 97'55'34.2" W 36.217936215' N 97.926178122' W X: 2021777 Y: 443349 N Pad miles West X 2016924 Y 443206 X 2019540 Y 443194 5233 X 2022157 Y 443182 THE INFORMATION SHOWN HEREIN IS FOR CONSTRUCTION PURPOSES ONLY Date of Drawing: May 4, 2018 Invoice # 292272 Date Staked: May 2, 2018 was receiver accuracy. ESSIONAL DATUM: NAD-27 NB LAT: 36"13'57.6"N LONG: 97°55'38.9"W **CERTIFICATE:** LAT: 36.232658199° N I, Thomas L. Howell a Oklahoma Licensed Land Surveyor and an authorized agent of Topographic Land Surveyors of Oklahoma, do hereby certify to the THOMAS L LONG: 97.927479664° W HOWELL STATE PLANE COORDINATES: (US Feet) information shown herein. 1433 This ered ±1 fo ZONE: OK NORTH 5-4-18 Thoma I. Naver 2021389 OKLAHOMA Oklahoma Lic. No. 1433 *LAHOMA 448708