API NUMBER: 047 25117

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)

Approval Date: 11/22/2017

Expiration Date: 05/22/2018

PERMIT TO DRILL

WELL LOCATION: Sec: 25 Twp: 20N Rge: 8W County: GARFIELD

SPOT LOCATION: NW NE NE FEET FROM QUARTER: FROM NORTH FROM EAST

SECTION LINES: 269 1117

Lease Name: WILLIE 2008 Well No: 24-1LOH Well will be 269 feet from nearest unit or lease boundary.

Operator GASTAR EXPLORATION INC Telephone: 7137391800 OTC/OCC Number: 23199 0

GASTAR EXPLORATION INC

1331 LAMAR STE 650

HOUSTON, TX 77010-3131

SURVIVING SPOUSE TRUST 1114 WEST CONNECTICUT

HOBBS NM 88242

Formation(s) (Permit Valid for Listed Formations Only):

Name Depth Name Depth MISSISSIPPIAN 1 6984 6 2 WOODFORD 7869 7 3 8 4 9 5 10 627271 Location Exception Orders:

Spacing Orders: 627271 Location Exception Orders: Increased Density Orders:

Pending CD Numbers: 201706909 Special Orders:

Total Depth: 12759 Ground Elevation: 1184 Surface Casing: 600 Depth to base of Treatable Water-Bearing FM: 360

Under Federal Jurisdiction: No Fresh Water Supply Well Drilled: No Surface Water used to Drill: No

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 BASED
Chlorides Max: 8000 Average: 5000

Is depth to top of ground water greater than 10ft below base of pit? $\quad \mbox{Y}$

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: BISON

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 17-33381

H. CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST

HORIZONTAL HOLE 1

Sec 24 Twp 20N Rge 8W County GARFIELD

Spot Location of End Point: NE NW NE NE Feet From: NORTH 1/4 Section Line: 150

Feet From: EAST 1/4 Section Line: 700

Depth of Deviation: 6622 Radius of Turn: 744

Direction: 5

Total Length: 4969

Measured Total Depth: 12759

True Vertical Depth: 7869

End Point Location from Lease,
Unit. or Property Line: 150

Notes:

Category Description

HYDRAULIC FRACTURING 11/8/2017 - 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 - 201706909 11/21/2017 - G58 - (I.O.) 24-20N-8W

X627271 MSSP. WDFD

COMPL. INT. NCT 150' FSL, NCT 150' FNL, NCT 330' FEL

NO OP NAMED

REC 11/7/2017 (M. PORTER)

SPACING - 627271 11/21/2017 - G58 - (640)(HOR) 24-20N-8W

EXT. 622726 MSSP, WDFD, OTHERS COMPL. INT. (MSSP) NCT 660' FB COMPL. INT. (WDFD) NCT 330' FB

(SUPERSEDE SP. ORDER 65632 MRMC, MNNG; SUPERSEDE SP. ORDER 70751 MSSLM)