

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

API NUMBER: 073 26053

Approval Date: 05/15/2018

Expiration Date: 11/15/2018

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 11 Twp: 19N Rge: 7W

County: KINGFISHER

SPOT LOCATION:

SE

NW

NE

NW

FEET FROM QUARTER: FROM

NORTH

FROM

WEST

SECTION LINES:

340

1718

Lease Name: RED 1907

Well No: 2-1LOH

Well will be 340 feet from nearest unit or lease boundary.

Operator Name: GASTAR EXPLORATION INC

Telephone: 7137391800

OTC/OCC Number: 23199 0

GASTAR EXPLORATION INC

1331 LAMAR STE 650

HOUSTON, TX 77010-3131

CHAD BROWN

PO BOX 234

OKARCHE OK 73762

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

	Name	Depth	Name	Depth
1	MISSISSIPPIAN	7022	6	
2	WOODFORD	7673	7	
3			8	
4			9	
5			10	

Spacing Orders: 642959
663342

Location Exception Orders: 676634

Increased Density Orders:

Pending CD Numbers:

Special Orders:

Total Depth: 12719

Ground Elevation: 1122

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: 5000 Average: 3000

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: SALT PLAINS

D. One time land application -- (REQUIRES PERMIT)

PERMIT NO: 18-34465

H. CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST

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.

HORIZONTAL HOLE 1

Sec 02 Twp 19N Rge 7W County KINGFISHER

Spot Location of End Point: N2 N2 NE NW

Feet From: NORTH 1/4 Section Line: 150

Feet From: EAST 1/4 Section Line: 1980

Depth of Deviation: 6600

Radius of Turn: 573

Direction: 3

Total Length: 5219

Measured Total Depth: 12719

True Vertical Depth: 7673

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

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

LOCATION EXCEPTION - 676634

5/14/2018 - G60 - (I.O.) 2-19N-7W
X663342 WDFD
X642959 MSSP
SHL NCT 0' FNL/FSL, NCT 0 FEL/FWL
POE TO BHL NCT 150' FSL, NCT 150' FNL, NCT 330' FEL/FWL
GASTAR EXPLORATOIN INC.
4/23/18

SPACING - 642959

5/14/2018 - G60 - (640)(HOR) 2-19N-7W
EST OTHERS
EXT WDFD, OTHER
COMPL. INT. NCT 165' FNL/FSL, NCT 330' FEL/FWL

SPACING - 663342

5/14/2018 - G60 - (640)(HOR) 2-19N-7W
EXT 649454 MSSP
COMPL. INT. NCT 660' FB
(COEXIST WITH SP. 53739 MNNG, MSSSD)

This permit does not address the right of entry or settlement of surface damages.

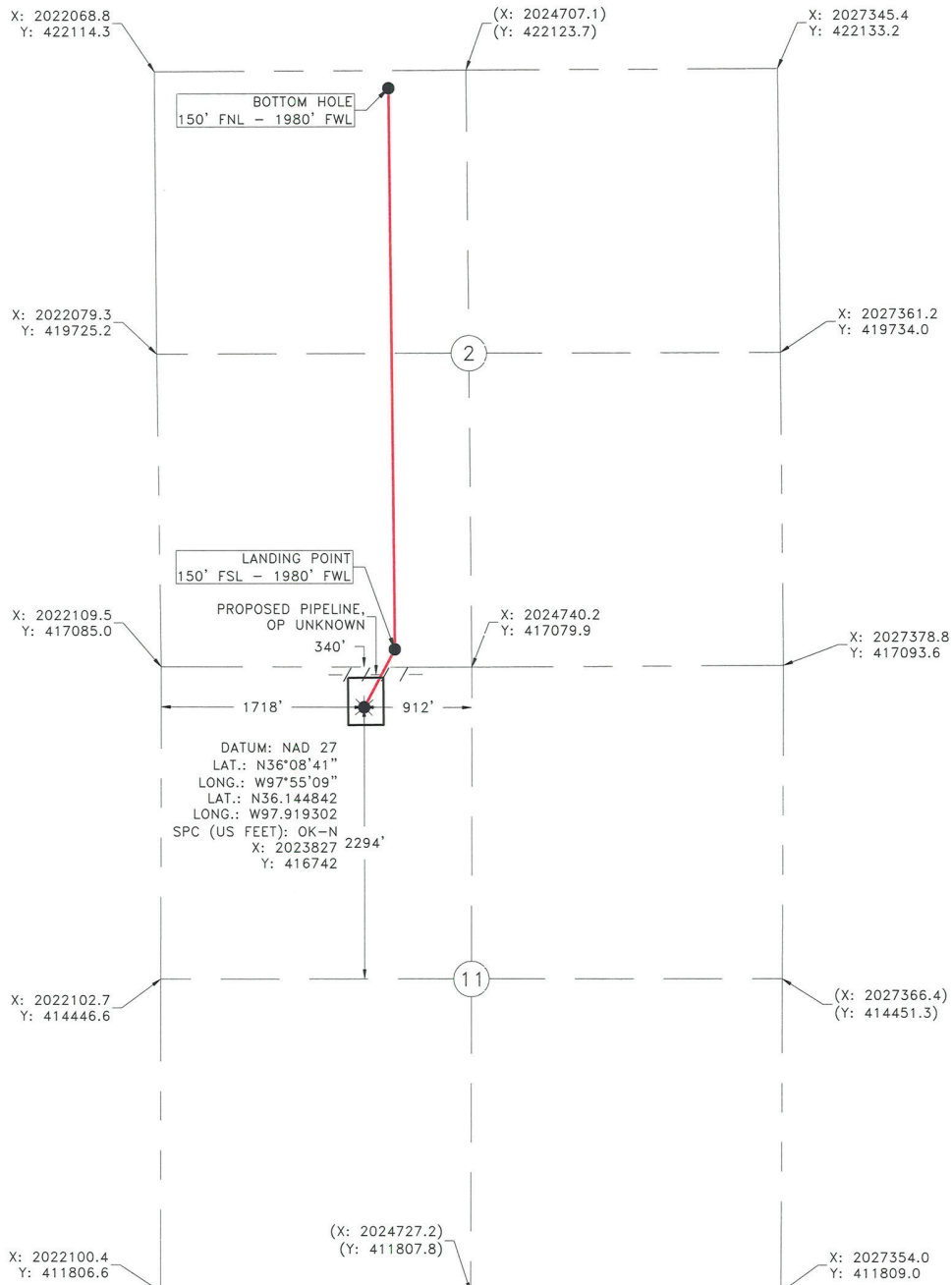
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073 26053 RED 1907 2-1LOH

SECTION 11, T 19 N - R 07 W, I.M.,
KINGFISHER COUNTY, OKLAHOMA

BEARINGS ARE GRID
OKLAHOMA SPC, NAD 27, NORTH ZONE





Operator: GASTAR EXPLORATION INC. Date Staked: 5/1/2018
Lease Name: RED 1907 Well No.: 2-1LOH Elevation: 1122.7'
Topography and Vegetation: PASTURE
Good Drill Site? YES Reference or Alt. Location Stakes Set: NONE
Best Accessibility to Location: FROM COUNTY ROAD
Distance and Direction from Hwy. Jct. or town: FROM THE JCT. OF US HWY 81 & ST. HWY 51, IN HENNESSEY, OK.
HEAD WEST 0.5 MILES, THEN NORTH 2.0 MILES ON CO. RD. N2860, THEN WEST 0.6 MILES ON CO. RD. E6060, THEN SOUTH INTO LOCATION.


FRED ANTHONY SELENSKY
OKLAHOMA L.P.L.S. NO.: 1860

NOTE: This is a plot of a proposed well location and does not represent a true boundary survey. The information shown herein shall not be relied upon for the location or establishment of land boundary lines. All of the positions shown herein have not been verified as being actual Section, Quarter or Property corners. Positions shown in (Parentheses) are based upon local occupation and improvements or calculated per proportional measurement and/or G.L.O. record distances. Review this plot and notify Gateway Services Group, LLC immediately of any possible discrepancy.

LEGEND

SURFACE LOCATION 

EXISTING WELL 

PROPOSED DRILL PATH 

EXISTING PIPELINE -P-P-P-P-P-P-P-P-

ELECTRIC LINE -E-E-E-E-E-E-E-E-

OVERHEAD POWER -OP-OP-OP-OP-OP-OP-

FENCE -X-X-X-X-X-X-X-X-



Gateway
Gateway Services Group, LLC

[illegible]