

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

API NUMBER: 073 25953

Approval Date: 03/02/2018

Expiration Date: 09/02/2018

Horizontal Hole

Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 20 Twp: 18N Rge: 8W

County: KINGFISHER

SPOT LOCATION:

FEET FROM QUARTER: FROM SOUTH FROM EAST

SECTION LINES: 158 183

Lease Name: FRANCHISE 1808

Well No: 20-1MH

Well will be 158 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

HILDA MILLER TRUST
12117 LOMICA DRIVE
C/O EMMA HAMIL MOONEY, TRUSTEE
SAN DIEGO CA 92128

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

	Name	Depth	Name	Depth
1	MISSISSIPPI LIME	8050	6	
2	WOODFORD	8584	7	
3			8	
4			9	
5			10	

Spacing Orders: 650922

Location Exception Orders: 670297

Increased Density Orders:

669157

Pending CD Numbers:

Special Orders:

Total Depth: 13129

Ground Elevation: 1144

Surface Casing: 470

Depth to base of Treatable Water-Bearing FM: 230

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: CEDAR HILLS

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

PERMIT NO: 18-33978

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 20 Twp 18N Rge 8W County KINGFISHER

Spot Location of End Point: NW NE NE NE

Feet From: NORTH 1/4 Section Line: 150

Feet From: EAST 1/4 Section Line: 440

Depth of Deviation: 7250

Radius of Turn: 578

Direction: 355

Total Length: 4971

Measured Total Depth: 13129

True Vertical Depth: 8614

End Point Location from Lease,

Unit, or Property Line: 150

Notes:

Category

Description

HYDRAULIC FRACTURING

2/27/2018 - 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 - 669157

3/2/2018 - G58 - (I.O.) 20-18N-8W
X650922 MSSLM, WDFD
COMPL. INT. NCT 150' FSL, NCT 150' FNL, NCT 330' FEL
GASTAR EXPLORATION INC.
10/18/2017

LOCATION EXCEPTION - 670297

3/2/2018 - G58 - NPT TO 669157 FOR TIMELY MAILING OF ORDER 669157

SPACING - 650922

3/2/2018 - G58 - (640)(HOR) 20-18N-8W
EXT 639392 MSSLM, WDFD, OTHER
COMPL. INT. (MSSLM) NCT 660' FB
COMPL. INT. (WDFD) NCT 165' FNL & FSL, NCT 330' FEL & FWL
(COEXIST SP. ORDER 78596 MISS)

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.

073 25953 FRANCHISE 1808 20-1MH

SECTION 20, T 18 N - R 08 W, I.M.,
KINGFISHER COUNTY, OKLAHOMA

BEARINGS ARE GRID
OKLAHOMA SPC, NAD 27, NORTH ZONE

CIMARRON
RIVER


(X: 1979895.2)
(Y: 371942.6)

2482³

(X: 1977248.4)
(Y: 369281.6)

X: 1979892.8
Y: 369303.0

Distance and Direction from Hwy. Jct. or town: FROM JCT. OF CO. RD. N2740 & CO. RD. E0720 IN LOYAL, HEAD EAST 3.0 MILES, THEN HEAD NORTH 3.1 MILES ON CO. RD. N2770, THEN WEST INTO LOCATION.

 2-23-2018
DATE
FRED ANTHONY SELENSKY
OKLAHOMA L.P.L.S. NO.: 1860

NOTE:
This is a plat of a proposed well location and does not represent a true boundary survey. The information shown hereon shall not be relied upon for the location or establishment of land boundary lines. All of the positions shown hereon 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 plat and notify Gateway Services Group, LLC immediately of any possible discrepancy.



Gateway
Gateway Services Group, LLC

P.O. BOX 960
MEEKER, OK 74855
OFF. (405) 273-0954
FAX (405) 273-0580
C.A. NO. 4091 (LS)
EXP. DATE 6-30-2018

GASTAR EXPLORATION INC.
FRANCHISE 1808 20-1MH
158' FSL - 183' FEL
SECTION 20, T 18 N - R 08 W, I.M.,
KINGFISHER COUNTY, OKLAHOMA

DRAWN BY: JPH		DATE: 02/21/18	CHK'D: CWP
GATEWAY NO.: 18-0133-001		SCALE: 1"=1000'	
PAD#:		WELL#:	
REV.	DWN.	DESCRIPTION	DATE

DRAWN BY: JPH	DATE: 02/21/18	CHK'D: CWP	
GATEWAY NO.: 18-0133-002	SCALE: 1"=1000'		
PAD#:	WELL#:		
REV.	DWN.	DESCRIPTION	DATE

SECTION 20, T 18 N - R 08 W, I.M.,
KINGFISHER COUNTY, OKLAHOMA

X: 1974599.1
Y: 374543.8

BEARINGS ARE GRID
OKLAHOMA SPC, NAD 27, NORTH ZONE

(X: 1977248.3)
(Y: 374563.0)

BOTTOM HOLE
150' FNL - 440' FEL

X: 1979897.6
Y: 374582.2

CIMARRON
RIVER

(X: 1974601.5)
(Y: 371902.0)

20

(X: 1979895.2)
(Y: 371942.6)

DATUM: NAD 27
LAT.: N36°00'54"
LONG.: W98°04'07"
LAT.: N36.014958
LONG.: W98.068605
SPC (US FEET): OK-N
X: 1979710
Y: 369459

2482'

LANDING POINT
150' FSL - 440' FEL

(X: 1977248.4)
(Y: 369281.6)

X: 1974603.9
Y: 369260.2

2462'

183'
158'
X: 1979892.8
Y: 369303.0

Operator: GASTAR EXPLORATION INC.

Date Staked: 02/20/18

Lease Name: FRANCHISE

Well No.: 1808 20-1MH

Elevation: 1144.9'

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 JCT. OF CO. RD. N2740 & CO. RD. E0720 IN LOYAL, HEAD EAST 3.0 MILES, THEN HEAD NORTH 3.1 MILES ON CO. RD. N2770, THEN WEST INTO LOCATION.

LEGEND
SURFACE LOCATION
EXISTING WELL
PROPOSED DRILL PATH
EXISTING PIPELINE
ELECTRIC LINE
OVERHEAD POWER
FENCE

Fred A. Selensky
FRED ANTHONY SELENSKY
OKLAHOMA L.P.L.S. NO.: 1860
DATE: 2-23-2018



Gateway
Gateway Services Group, LLC
PO. BOX 960
MEEKER, OK 74855
OFF. (405) 273-0954
FAX (405) 273-0580
C.A. NO. 4091 (LS)
EXP. DATE 6-30-2018

NOTE:

This is a plat of a proposed well location and does not represent a true boundary survey. The information shown hereon shall not be relied upon for the location or establishment of land boundary lines. All of the positions shown hereon 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 plat and notify Gateway Services Group, LLC immediately of any possible discrepancy.

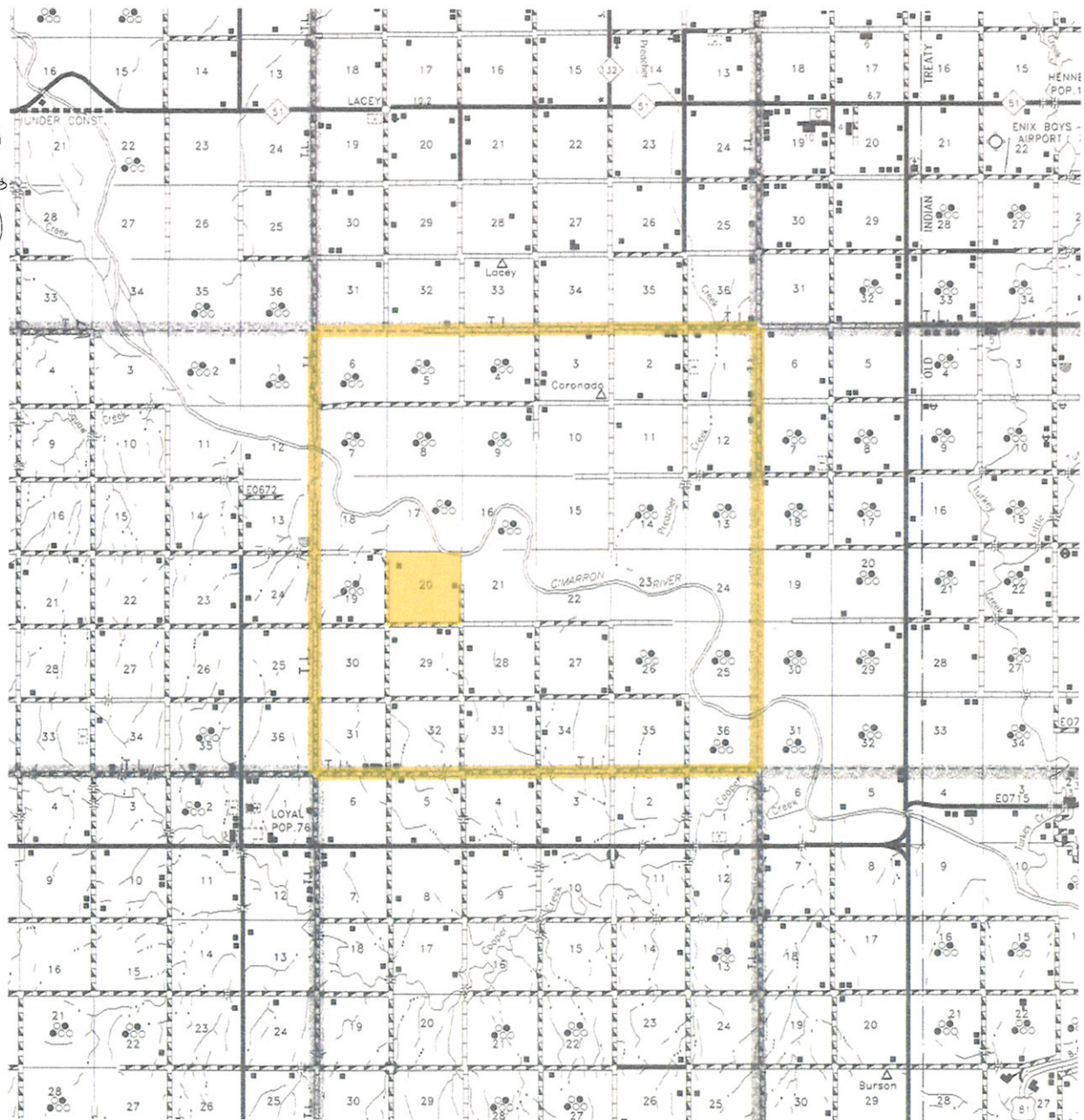
EXHIBIT "A" PRELIMINARY

GASTAR EXPLORATION INC.
FRANCHISE 1808 20-1MH
158' FSL - 183' FEL
SECTION 20, T 18 N - R 08 W, I.M.,
KINGFISHER COUNTY, OKLAHOMA

DRAWN BY: JPH		DATE: 02/21/18	CHK'D: CWP
GATEWAY NO.: 18-0133-003		SCALE: 1"=1000'	
PAD#:		WELL#:	
REV.	DWN.	DESCRIPTION	DATE

SECTION 20, T 18 N - R 08 W, I.M.,
KINGFISHER COUNTY, OKLAHOMA

BEARINGS ARE GRID
OKLAHOMA SPC, NAD 27, NORTH ZONE



Gateway
Gateway Services Group, LLC

P.O. BOX 960
MEEKER, OK 74855
OFF. (405) 273-0954
FAX (405) 273-0580
C.A. NO. 4091 (LS)
EXP. DATE 6-30-2018

EXHIBIT "A" PRELIMINARY

GASTAR EXPLORATION INC.
FRANCHISE 1808 20-1MH
158' FSL - 183' FEL
SECTION 20, T 18 N - R 08 W, I.M.,
KINGFISHER COUNTY, OKLAHOMA

DRAWN BY: JPH	DATE: 2/21/18	CHK'D: CWP
GATEWAY NO.: 18-0133-004	SCALE: N.T.S.	
PAD#:	WELL#:	
REV. DWN.	DESCRIPTION	DATE

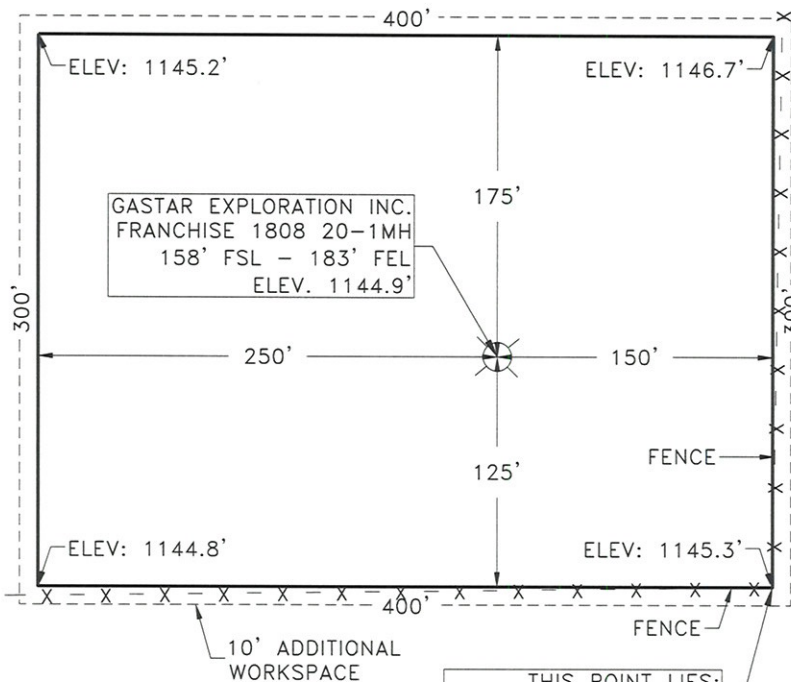
SECTION 20, T 18 N - R 08 W, I.M.,
KINGFISHER COUNTY, OKLAHOMA

BEARINGS ARE GRID
OKLAHOMA SPC, NAD 27, NORTH ZONE

20

GASTAR EXPLORATION INC.
FRANCHISE 1808 20-1MH

VICINITY MAP SCALE: N.T.S.



Gateway
Gateway Services Group, LLC

P.O. BOX 960
MEEKER, OK 74855
OFF. (405) 273-0954
FAX (405) 273-0580
C.A. NO. 4091 (LS)
EXP. DATE 6-30-2018

EXHIBIT "A" PRELIMINARY

GASTAR EXPLORATION INC.
FRANCHISE 1808 20-1MH
158' FSL - 183' FEL
SECTION 20, T 18 N - R 08 W, I.M.,
KINGFISHER COUNTY, OKLAHOMA

DRAWN BY: JPH		DATE: 2/21/18		CHK'D: CWP	
GATEWAY NO.: 18-0133-005				SCALE: N.T.S.	
PAD#:			WELL#:		
REV.	DWN.	DESCRIPTION		DATE	