

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

API NUMBER: 073 25950

Approval Date: 03/02/2018  
Expiration Date: 09/02/2018

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 22 Twp: 19N Rge: 7W County: KINGFISHER  
SPOT LOCATION:  SW  SW  SE  SW FEET FROM QUARTER: FROM SOUTH FROM WEST  
SECTION LINES: 156 1354

Lease Name: **CAKES 1907** Well No: **22-1LOH** Well will be **156 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

R&E FAMILY TRUST  
16294 EAST PRENTICE PLACE  
CENTENNIAL CO 80015

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

	Name	Depth	Name	Depth
1	MISSISSIPPIAN	6838	6	
2	WOODFORD	7590	7	
3			8	
4			9	
5			10	

Spacing Orders: No Spacing  
Pending CD Numbers: 201801104  
201801218

Location Exception Orders: \_\_\_\_\_

Increased Density Orders: \_\_\_\_\_  
Special Orders: \_\_\_\_\_

Total Depth: 12465 Ground Elevation: 1103 **Surface Casing: 460** Depth to base of Treatable Water-Bearing FM: 220

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

**PIT 1 INFORMATION**

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 AP/TE DEPOSIT

Pit Location Formation: TERRACE

Approved Method for disposal of Drilling Fluids:

- D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 18-33979
- 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 22 Twp 19N Rge 7W County KINGFISHER

Spot Location of End Point: NE NE NW NW

Feet From: NORTH 1/4 Section Line: 150

Feet From: WEST 1/4 Section Line: 1000

Depth of Deviation: 6600

Radius of Turn: 573

Direction: 355

Total Length: 4965

Measured Total Depth: 12465

True Vertical Depth: 7620

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](http://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](http://FRACFOCUS.ORG)

PENDING CD - 201801104

3/1/2018 - G58 - (560) N2 & SW4 & W2 SE4 22-19N-7W  
EST MSSP, WDFD, OTHERS  
COMPL. INT. (MSSP) NCT 660' FB  
COMPL. INT. (WDFD) NCT 165' FNL & FSL, NCT 330' FEL & FWL  
(HORIZONTAL WELL UNITS SHALL EXIST CONCURRENTLY WITH NON-HORIZONTAL DRILLING AND SPACING UNITS)  
REC 2/27/2018 (MILLER)

PENDING CD - 201801218

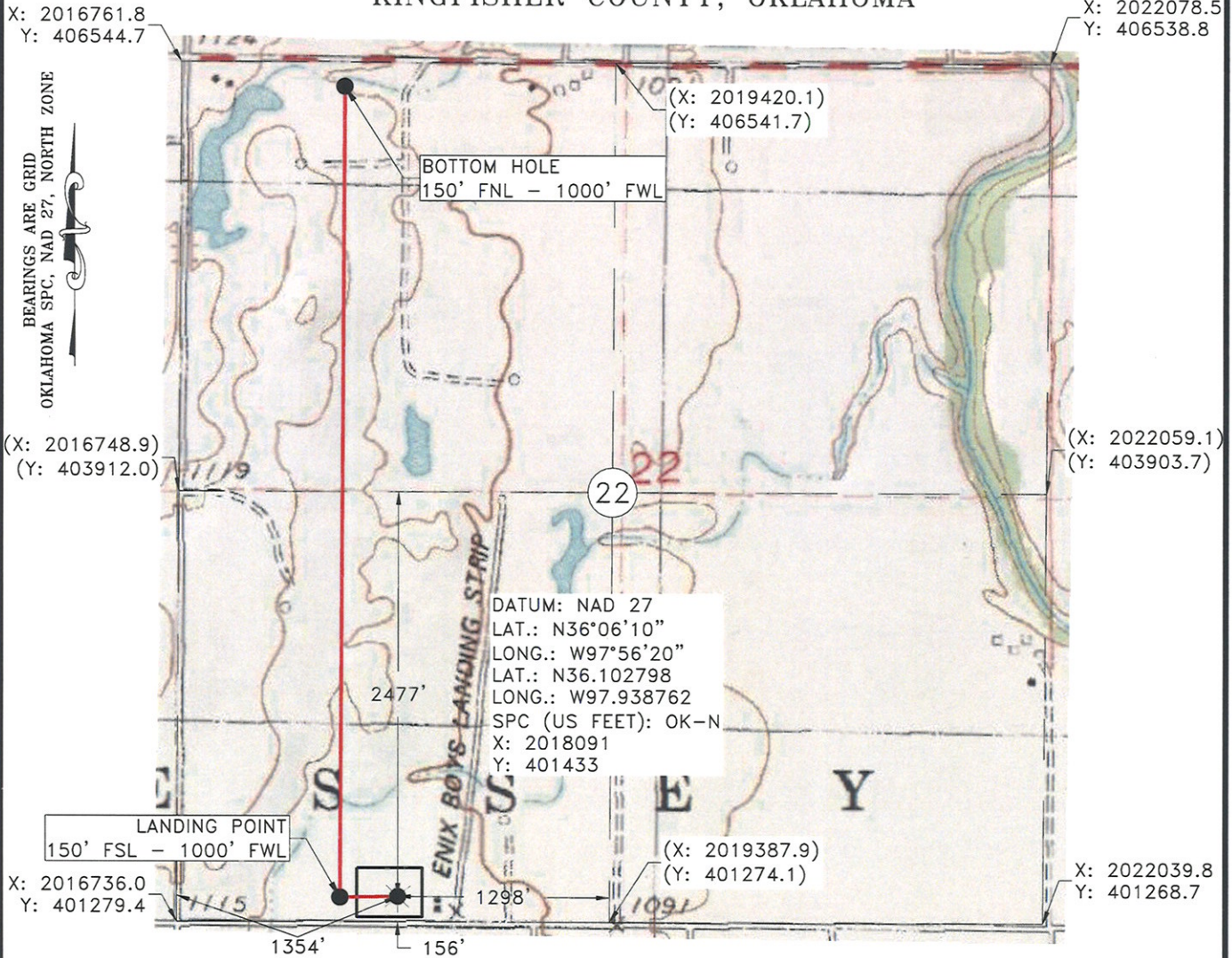
3/2/2018 - G58 - (E.O.) N2 & SW4 & W2 SE4 22-19N-7W  
X201801104 MSSP, WDFD  
COMPL. INT. NCT 150' FSL, NCT 150' FNL, NCT 660' FWL  
NO OP. NAMED  
REC 2/27/2018 (JACKSON)

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 25950 CAKES 1907 22-1LOH



SECTION 22 T 19 N - R 07 W, I.M.,  
KINGFISHER COUNTY, OKLAHOMA



Operator: GASTAR EXPLORATION INC. Date Staked: 02/19/18  
 Lease Name: CAKES 1907 22 Well No.: 1LOH Elevation: 1103'  
 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 HENNESSEY HEAD WEST ON CO. RD. E0630/  
 W. 7TH ST. FOR 2.2 MILES, TURN NORTH INTO LOCATION.

**LEGEND**

- SURFACE LOCATION
- EXISTING WELL
- BOTTOM HOLE/LANDING POINT
- PROPOSED DRILL PATH
- EXISTING PIPELINE
- ELECTRIC LINE
- OVERHEAD POWER
- FENCE

*Fred A. Selensky*  
 FRED ANTHONY SELENSKY  
 OKLAHOMA L.P.L.S. NO.: 1860  
 DATE: 2-22-2018



**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.  
 CAKES 1907 22-1LOH  
 156' FSL - 1354' FWL  
 SECTION 22, T 19 N - R 07 W, I.M.,  
 KINGFISHER COUNTY, OKLAHOMA

DRAWN BY: CLC	DATE: 02/21/18	CHK'D: CWP
GATEWAY NO.: 18-0134-001		SCALE: 1"=1000'
PAD#:	WELL#:	
REV.	DWN.	DESCRIPTION

**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.



SECTION 22 T 19 N - R 07 W, I.M.,  
KINGFISHER COUNTY, OKLAHOMA

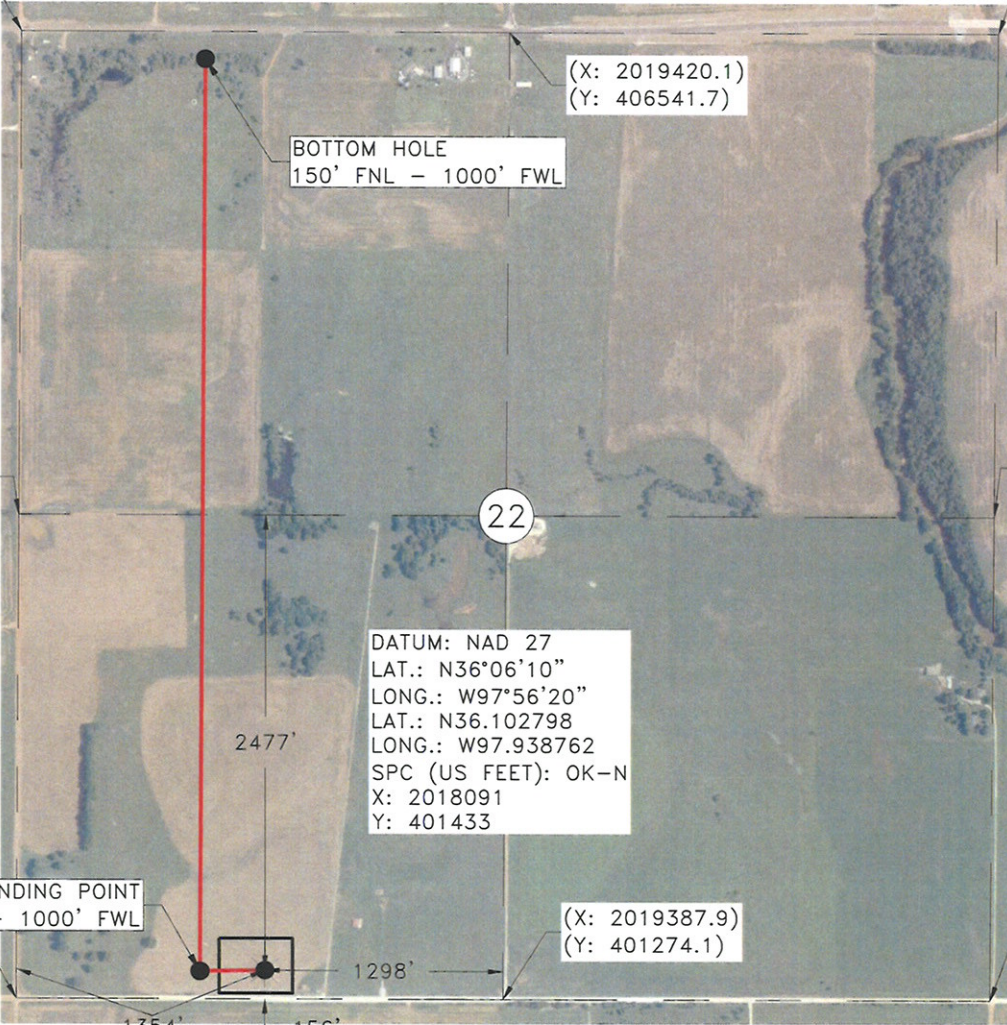
X: 2016761.8  
Y: 406544.7

X: 2022078.5  
Y: 406538.8

BEARINGS ARE GRID  
OKLAHOMA SPC, NAD 27, NORTH ZONE

(X: 2016748.9)  
(Y: 403912.0)

(X: 2022059.1)  
(Y: 403903.7)



DATUM: NAD 27  
LAT.: N36°06'10"  
LONG.: W97°56'20"  
LAT.: N36.102798  
LONG.: W97.938762  
SPC (US FEET): OK-N  
X: 2018091  
Y: 401433

LANDING POINT  
150' FSL - 1000' FWL

(X: 2019387.9)  
(Y: 401274.1)

X: 2016736.0  
Y: 401279.4

X: 2022039.8  
Y: 401268.7

Operator: GASTAR EXPLORATION INC. Date Staked: 02/19/18  
Lease Name: CAKES 1907 22 Well No.: 1LOH Elevation: 1103'  
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 HENNESSEY HEAD WEST ON CO. RD. E0630/  
W. 7TH ST. FOR 2.2 MILES, TURN NORTH INTO LOCATION.

**LEGEND**

- SURFACE LOCATION
- EXISTING WELL
- PROPOSED DRILL PATH
- EXISTING PIPELINE
- ELECTRIC LINE
- OVERHEAD POWER
- FENCE
- BOTTOM HOLE/LANDING POINT

*Fred A. Selesky*  
FRED ANTHONY SELENSKY  
OKLAHOMA L.P.L.S. NO.: 1860  
DATE: 2-22-2018



**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

**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.  
CAKES 1907 22-1LOH  
156' FSL - 1354' FWL  
SECTION 22, T 19 N - R 07 W, I.M.,  
KINGFISHER COUNTY, OKLAHOMA

DRAWN BY: CLC	DATE: 02/21/18	CHK'D: CWP
GATEWAY NO.: 18-0134-002	SCALE: 1"=1000'	
PAD#:	WELL#:	
REV.	DWN.	DESCRIPTION
		DATE

SECTION 22 T 19 N - R 07 W, I.M.,  
KINGFISHER COUNTY, OKLAHOMA

X: 2016761.8  
Y: 406544.7

X: 2022078.5  
Y: 406538.8

BEARINGS ARE GRID  
OKLAHOMA SPC, NAD 27, NORTH ZONE

(X: 2019420.1)  
(Y: 406541.7)

BOTTOM HOLE  
150' FNL - 1000' FWL

(X: 2016748.9)  
(Y: 403912.0)

(X: 2022059.1)  
(Y: 403903.7)

22

DATUM: NAD 27  
LAT.: N36°06'10"  
LONG.: W97°56'20"  
LAT.: N36.102798  
LONG.: W97.938762  
SPC (US FEET): OK-N  
X: 2018091  
Y: 401433

2477'

LANDING POINT  
150' FSL - 1000' FWL

(X: 2019387.9)  
(Y: 401274.1)

X: 2016736.0  
Y: 401279.4

X: 2022039.8  
Y: 401268.7

1298'

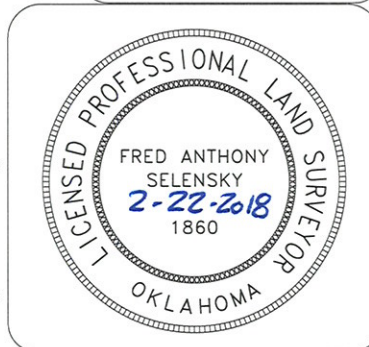
1354' 156'

Operator: GASTAR EXPLORATION INC. Date Staked: 02/19/18  
Lease Name: CAKES 1907 22 Well No.: 1LOH Elevation: 1103'  
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 HENNESSEY HEAD WEST ON CO. RD. E0630/  
W. 7TH ST. FOR 2.2 MILES, TURN NORTH INTO LOCATION.

LEGEND

- SURFACE LOCATION
- EXISTING WELL
- PROPOSED DRILL PATH
- EXISTING PIPELINE
- ELECTRIC LINE
- OVERHEAD POWER
- FENCE
- BOTTOM HOLE/LANDING POINT

FRED ANTHONY SELENSKY DATE: 2-22-2018  
OKLAHOMA L.P.L.S. NO.: 1860



**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

**EXHIBIT "A" PRELIMINARY**  
GASTAR EXPLORATION INC.  
CAKES 1907 22-1LOH  
156' FSL - 1354' FWL  
SECTION 22, T 19 N - R 07 W, I.M.,  
KINGFISHER COUNTY, OKLAHOMA

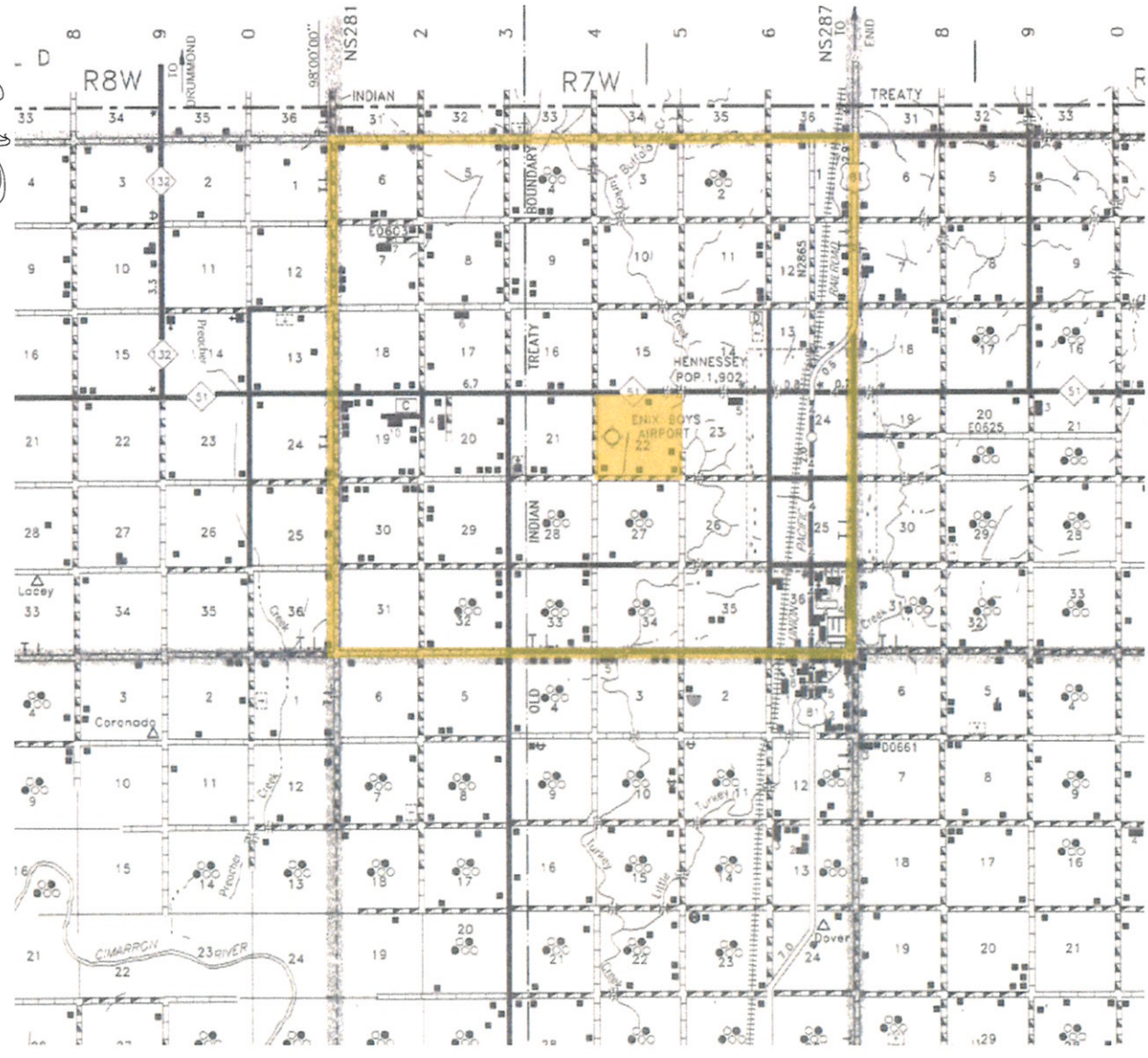
DRAWN BY: CLC	DATE: 02/21/18	CHK'D: CWP
GATEWAY NO.: 18-0134-003		SCALE: 1"=1000'
PAD#:	WELL#:	
REV.	DWN.	DESCRIPTION
		DATE

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.



SECTION 22, T 19 N - R 07 W, I.M.,  
KINGFISHER COUNTY, OKLAHOMA

BEARINGS ARE GRID  
OKLAHOMA SPC, NAD 27, NORTH ZONE



**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

**EXHIBIT "A" PRELIMINARY**  
GASTAR EXPLORATION INC.  
CAKES 1907 22-1LOH  
156' FSL - 1354' FWL  
SECTION 22, T 19 N - R 07 W, I.M.,  
KINGFISHER COUNTY, OKLAHOMA

DRAWN BY: CLC	DATE: 02/21/18	CHK'D: CWP
GATEWAY NO.: 18-0134-004		SCALE: N.T.S.
PAD#:	WELL#:	
REV. DWN.	DESCRIPTION	DATE

SECTION 22, T 19 N - R 07 W, I.M.,  
KINGFISHER COUNTY, OKLAHOMA

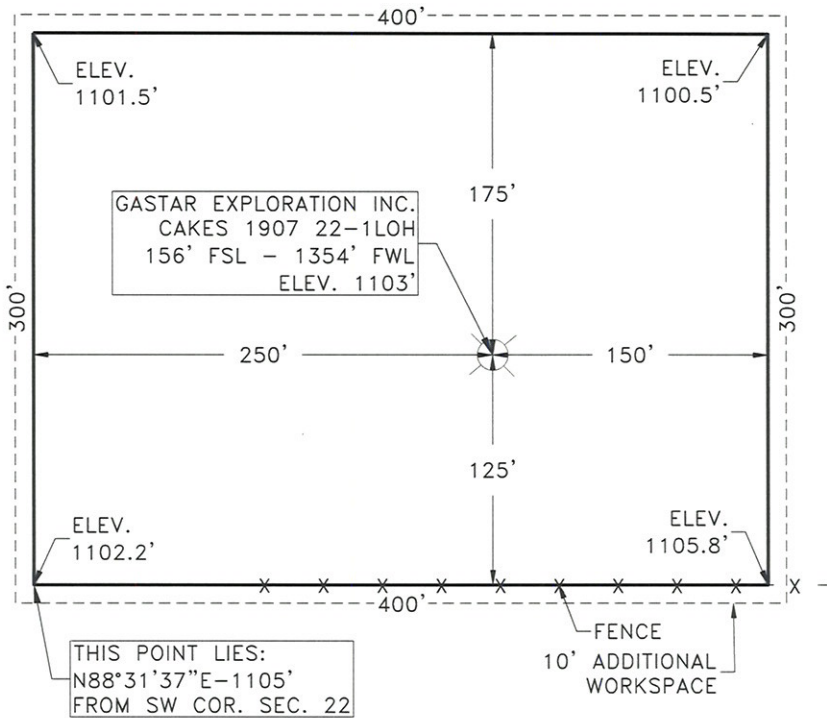
BEARINGS ARE GRID  
OKLAHOMA SPC. NAD 27, NORTH ZONE

22

GASTAR EXPLORATION INC.  
CAKES 1907 22-1LOH



VICINITY MAP SCALE: N.T.S.



THIS POINT LIES:  
N88°31'37"E-1105'  
FROM SW COR. SEC. 22

**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.  
CAKES 1907 22-1LOH  
156' FSL - 1354' FWL  
SECTION 22, T 19 N - R 07 W, I.M.,  
KINGFISHER COUNTY, OKLAHOMA

DRAWN BY: CLC | DATE: 02/21/18 | CHK'D: CWP

GATEWAY NO.: 18-0134-005 | SCALE: N.T.S.

PAD#: | WELL#:

REV.	DWN.	DESCRIPTION	DATE