

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

API NUMBER: 073 25922

Approval Date: 02/12/2018

Expiration Date: 08/12/2018

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 18 Twp: 19N Rge: 9W

County: KINGFISHER

SPOT LOCATION: ☐ NW ☐ NW ☐ NW ☐ NE

FEET FROM QUARTER: FROM NORTH FROM EAST

SECTION LINES: 185 2453

Lease Name: BIGGIO 1909

Well No: 7-1LOH

Well will be 185 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

PAUL RICHARD MURRAY LIFE ESTATE  
3105 WEST PURDUE AVENUE  
ENID OK 73703

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

	Name	Depth	Name	Depth
1	MISSISSIPPIAN	7801	6	
2	WOODFORD	8354	7	
3			8	
4			9	
5			10	

Spacing Orders: No Spacing

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201707426  
201708096

Special Orders:

Total Depth: 12565

Ground Elevation: 1155

Surface Casing: 280

Depth to base of Treatable Water-Bearing FM: 40

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? 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: 18-33902  
H. CLOSED SYSTEM=STEEL PITS REQUIRED (CIMARRON RIVER)

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 07 Twp 19N Rge 9W County KINGFISHER

Spot Location of End Point: NE NW NW NE

Feet From: NORTH 1/4 Section Line: 150

Feet From: EAST 1/4 Section Line: 2080

Depth of Deviation: 6884

Radius of Turn: 700

Direction: 5

Total Length: 4981

Measured Total Depth: 12565

True Vertical Depth: 8354

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

Notes:

Category

Description

HYDRAULIC FRACTURING

2/12/2018 - G58 - 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 - 201707426

2/12/2018 - G58 - (640)(HOR) 7-19N-9W  
EST MSSP, WDFD, OTHERS  
COMPL. INT. (MSSP) NCT 660' FB  
COMPL. INT. (WDFD) NCT 165' FNL & FLS, NCT 330' FEL & FWL  
(COEXIST SP. ORDER 206464 MSSSD, CSTR, MNNG; SP. ORDER 205227 MSSSD, CSTR, MNNG;  
SP. ORDER MNNG, CSTR, MSSSD; SP. ORDER 320066 MNNG, CSTR, MSSSD)  
REC 2/12/2018 (NORRIS)

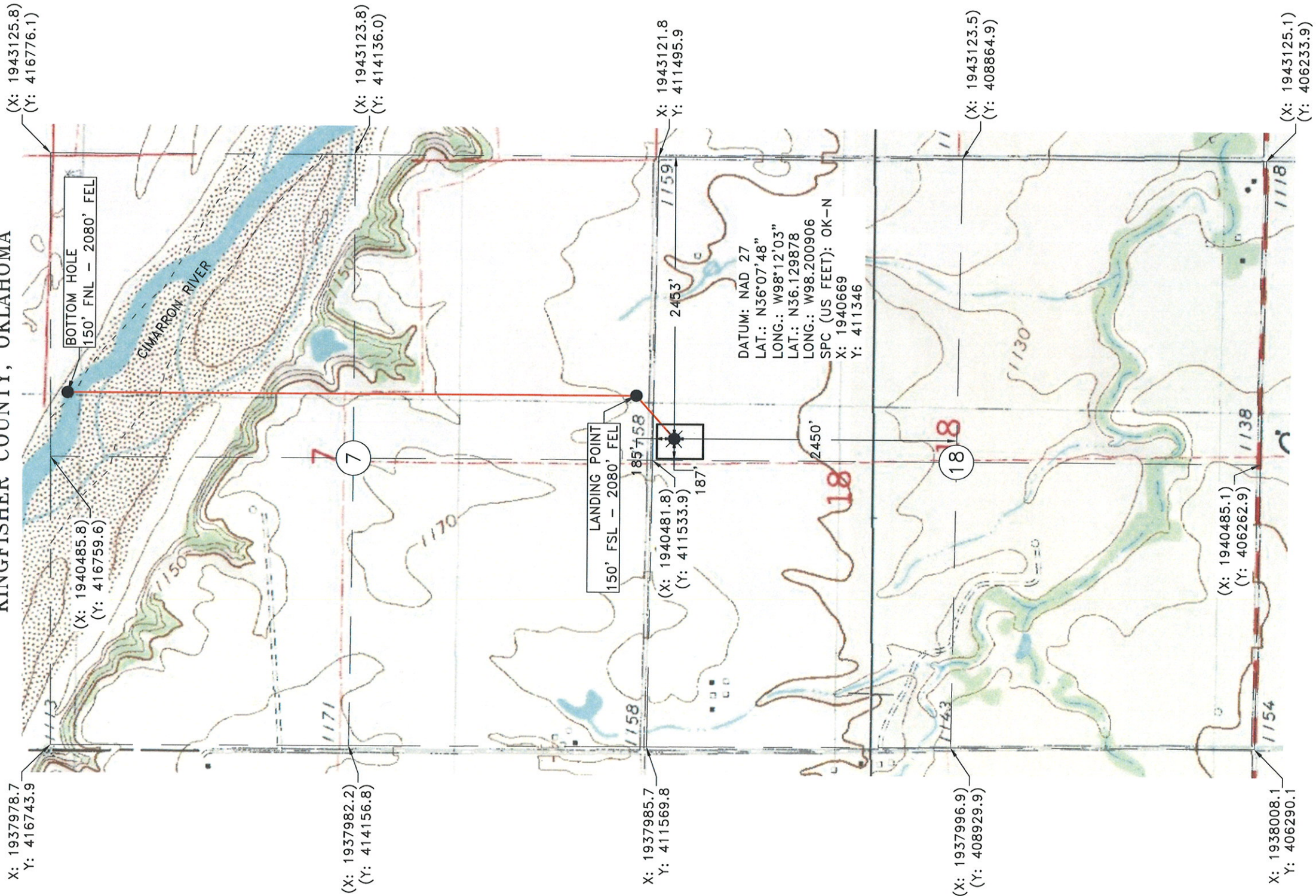
PENDING CD - 201708096

2/12/2018 - G58 - (E.O.) 7-19N-9W  
X201707426 MSSP, WDFD  
COMPL. INT. NCT 150' FSL, NCT 150' FNL, NCT 330' FWL  
NO OP. NAMED  
REC 2/12/2018 (NORRIS)



SECTIONS 7 & 18 T 19 N - R 09 W, I.M.,  
KINGFISHER COUNTY, OKLAHOMA

BEARINGS ARE GRID  
OKLAHOMA SPC, NAD 27, NORTH ZONE



Operator: GASTAR EXPLORATION INC.  
Lease Name: BIGGIO 1909 7  
Topography and Vegetation: PASTURE  
Good Drill Site? YES  
Reference or Alt. Location Stakes Set: NONE  
Distance and Direction from Hwy. Jct. or town: FROM JCT. OF ST. HWY. 8 & ST. HWY. 51 IN OKEENE, HEAD NORTH 1.0 MILE ON ST. HWY. 8, TURN EAST ON CO. RD. E0601 FOR 6.5 MILES, TURN SOUTH INTO LOCATION.

Date Staked: 1/8/18  
Well No.: 110H  
Elevation: 1155'

FRED ANTHONY SELENSKY  
OKLAHOMA L.P.L.S. NO.: 1860  
DATE: 1-12-2018

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.



Gateway  
Gateway Services Group, LLC

PO. BOX 960  
MEeker, OK 74855  
OFF. (405) 273-0954  
FAX (405) 273-0950  
C.A. NO. 4091 (LS)  
EXP. DATE 6-30-2018

EXHIBIT "A" PRELIMINARY

GASTAR EXPLORATION INC.  
BIGGIO 1909 7-110H  
185' FNL - 2453' FEL  
SECTIONS 7 & 18, T 19 N - R 09 W, I.M.,  
KINGFISHER COUNTY, OKLAHOMA

REV.	DATE	DESCRIPTION
1	1/10/18	DATE: 1/10/18
2	1/10/18	DATE: 1/10/18
3	1/10/18	DATE: 1/10/18
4	1/10/18	DATE: 1/10/18
5	1/10/18	DATE: 1/10/18
6	1/10/18	DATE: 1/10/18
7	1/10/18	DATE: 1/10/18
8	1/10/18	DATE: 1/10/18
9	1/10/18	DATE: 1/10/18
10	1/10/18	DATE: 1/10/18
11	1/10/18	DATE: 1/10/18
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95	1/10/18	DATE: 1/10/18
96	1/10/18	DATE: 1/10/18
97	1/10/18	DATE: 1/10/18
98	1/10/18	DATE: 1/10/18
99	1/10/18	DATE: 1/10/18
100	1/10/18	DATE: 1/10/18

LEGEND

- EXISTING WELL
- PROPOSED DRILL PATH
- EXISTING PIPELINE
- ELECTRIC LINE
- OVERHEAD POWER
- FENCE

SCALE: 1"=1000'

CHK'D: CWP



SECTIONS 7 & 18 T 19 N - R 09 W, I.M.,  
KINGFISHER COUNTY, OKLAHOMA



Operator: GASTAR EXPLORATION INC.  
Lease Name: BIGGIO 1909 7  
Topography and Vegetation: PASTURE  
Good Drill Site? YES  
Reference or Alt. Location Stakes Set: NONE  
Distance and Direction to Location: FROM JCT. OF ST. HWY. 8 & ST. HWY. 51 IN OKEENE, HEAD NORTH 1.0 MILE ON ST. HWY. 8, TURN EAST ON CO. RD. E0601 FOR 6.5 MILES, TURN SOUTH INTO LOCATION.  
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Elevation: 1155'

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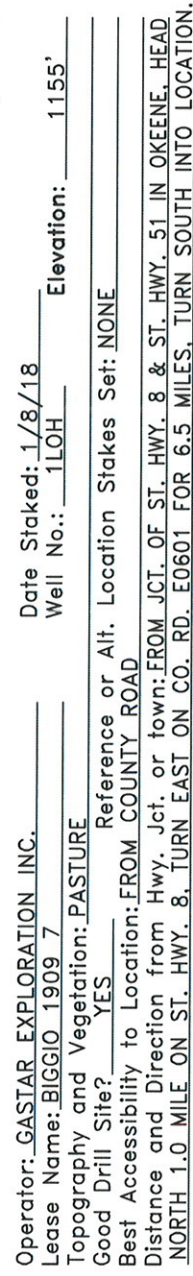
**Gateway**  
Gateway Services Group, LLC  
PO. BOX 960  
MEER, OK 74855  
OFF. (405) 273-0954  
FAX (405) 273-0580  
C.A. NO. 4091 (LS)  
EXP. DATE 6-30-2018

EXHIBIT "A" PRELIMINARY			
GASTAR EXPLORATION INC. BIGGIO 1909 7-1LOH 185' FNL - 2453' FEL SECTIONS 7 & 18, T 19 N - R 09 W, I.M., KINGFISHER COUNTY, OKLAHOMA			
DRAWN BY: ERW	DATE: 1/10/18	CHK'D: CWP	
GATEWAY NO.: 18-0020-002	SCALE: 1"=1000'		
PAD#:	WELL#:		
REV. DWN.	DESCRIPTION		
	DATE		

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



BEARINGS ARE GRID  
OKLAHOMA SPC, NAD 27, NORTH ZONE



FRED ANTHONY  
SELSKY  
1-13-2018  
1860

PROFESSIONAL LAND SURVEYOR  
OKLAHOMA  
LICENSED

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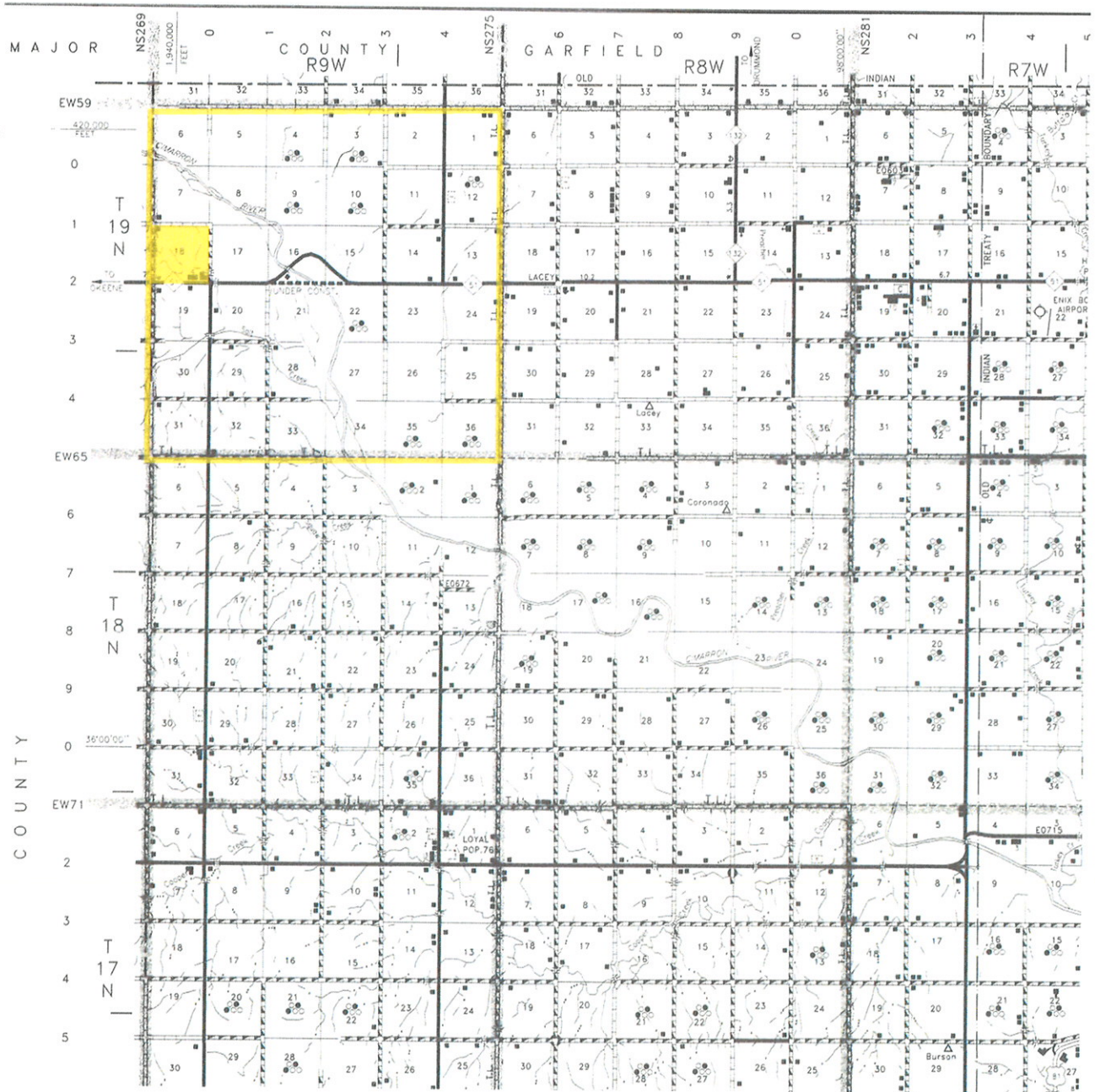
**LEGEND**

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



# SECTION 18, T 19 N - R 09 W, I.M., KINGFISHER COUNTY, OKLAHOMA

BEARINGS ARE GRID  
OKLAHOMA SPC, NAD 27, NORTH ZONE



**Gateway**

Gateway Services Group, LLC

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BIGGIO 1909 7-1LOH  
185' FNL - 2453' FEL  
SECTION 18, T 19 N - R 09 W, I.M.,  
KINGFISHER COUNTY, OKLAHOMA

DRAWN BY: ERW		DATE: 1/10/18		CHK'D: CWP	
GATEWAY NO.: 18-0020-004				SCALE: N.T.S.	
PAD#:		WELL#:			
REV. DWN.		DESCRIPTION			DATE

SECTION 18, T 19 N - R 09 W, I.M.,  
KINGFISHER COUNTY, OKLAHOMA

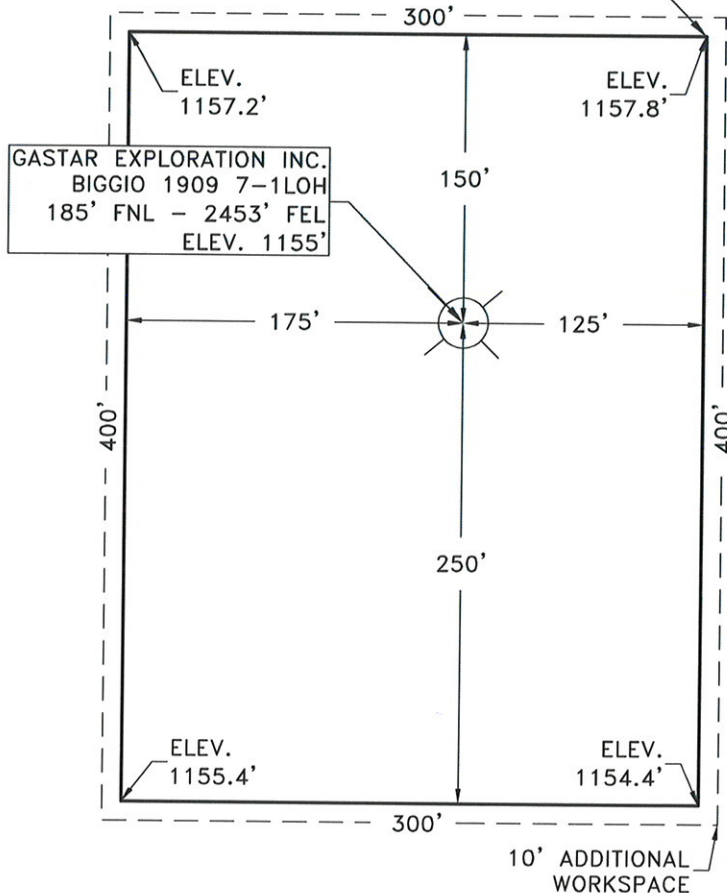
BEARINGS ARE GRID  
OKLAHOMA SPC, NAD 27, NORTH ZONE

GASTAR EXPLORATION INC.  
BIGGIO 1909 7-1LOH

18

VICINITY MAP SCALE: N.T.S.

THIS POINT LIES:  
N89°59'36"W-2328'  
FROM NE COR. SEC. 18



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**EXHIBIT "A" PRELIMINARY**

GASTAR EXPLORATION INC.  
BIGGIO 1909 7-1LOH  
185' FNL - 2453' FEL  
SECTION 18, T 19 N - R 09 W, I.M.,  
KINGFISHER COUNTY, OKLAHOMA

DRAWN BY: ERW DATE: 1/10/18 CHK'D: CWP

GATEWAY NO.: 18-0020-005 SCALE: N.T.S.

PAD#: WELL#: 1LOH

REV.	DWN.	DESCRIPTION	DATE