

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

API NUMBER: 073 26045

Approval Date: 05/08/2018

Expiration Date: 11/08/2018

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 21 Twp: 18N Rge: 8W

County: KINGFISHER

SPOT LOCATION: ☐ SW ☐ SW ☐ SE ☐ SE

FEET FROM QUARTER: FROM SOUTH FROM EAST

SECTION LINES: 158 1074

Lease Name: SWEETNESS 1808

Well No: 21-1MH

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

SHARON L JAMES
107 HUNTERS FARM DR.
SENOIA GA 30276

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

	Name	Depth	Name	Depth
1	MISSISSIPPI LIME	7800	6	
2	WOODFORD	8450	7	
3			8	
4			9	
5			10	

Spacing Orders: 646634

Location Exception Orders: 669560

Increased Density Orders:

Pending CD Numbers:

Special Orders:

Total Depth: 13347

Ground Elevation: 1142

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: 18-34403
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 21 Twp 18N Rge 8W County KINGFISHER

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: 7621

Radius of Turn: 477

Direction: 3

Total Length: 4977

Measured Total Depth: 13347

True Vertical Depth: 8450

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

Notes:

Category

Description

COMPLETION INTERVAL

5/8/2018 - G58 - WILL BE AT LEAST 165' FROM BOUNDARY PER OP.

HYDRAULIC FRACTURING

4/27/2018 - 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

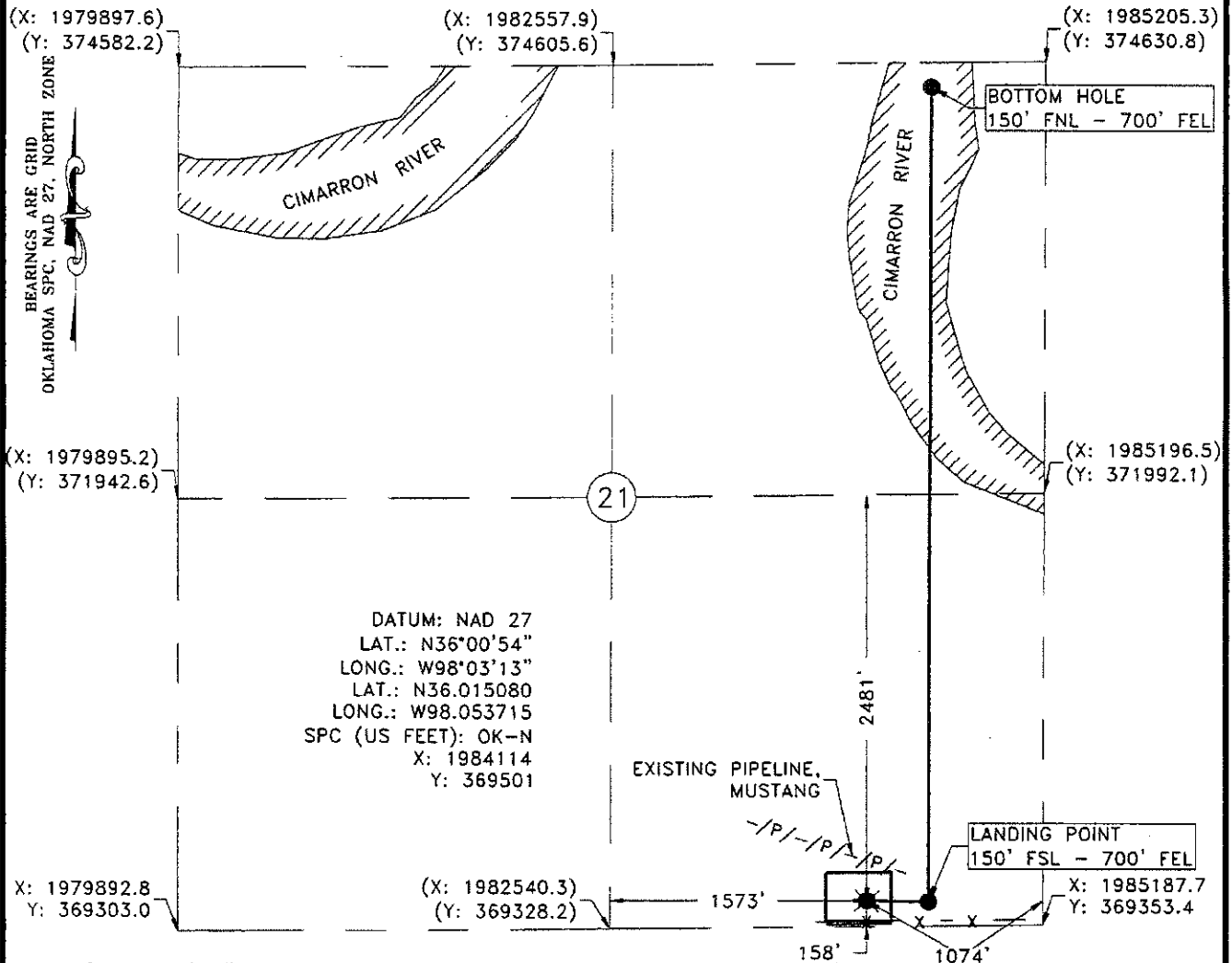
LOCATION EXCEPTION - 669560

5/8/2018 - G58 - (I.O.) 21-18N-8W
X646634 MSSLM, WDFD
COMPL. INT. NCT 165' FSL, NCT 165' FNL, NCT 660' FWL
GASTAR EXPLORATION INC.
10/31/2018

SPACING - 646634

5/8/2018 - G58 - (640)(HOR) 21-18N-8W
EXT 639392 MSSLM, WDFD, OTHER
COMPL. INT. (MSSLM) NLT 660' FB
COMPL. INT. (WDFD) NLT 165' FNL & FSL, NLT 330' FEL & FWL
(EXIST CONCURRENTLY WITH SP ORDER 81983 MSSP)

SECTION 21, T 18 N - R 08 W, I.M.,
KINGFISHER COUNTY, OKLAHOMA

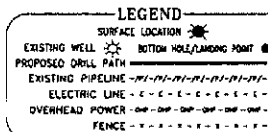


Operator: GASTAR EXPLORATION INC. Date Staked: 4/17/18 1074
Lease Name: SWEETNESS 1808 21 Well No.: 1MH Elevation: 1142'
Topography and Vegetation: PASTURE
Good Drill Site? YES Reference or Alt. Location Stakes Set: NONE
Best Accessibility to Location: FROM COUNTY ROAD
Distance and Direction from Hwy. Jct. or town: FROM LOYAL, HEAD NORTH ON CO. RD. N2740 FOR 3.0 MILES, TURN EAST ON CO. RD. E0690 FOR 3.8 MILES, THEN TURN NORTH INTO LOCATION.

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.



PO. BOX 980
WEEKER, 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.
SWEETNESS 1808 21-1MH
158' FSL - 1074' FEL
SECTION 21, T 18 N - R 08 W. 1.M.,
KINGFISHER COUNTY, OKLAHOMA

DRAWN BY: CRW		DATE: 4/18/18		CHK'D: CWP	
GATEWAY NO.: 18-0299-003R1				SCALE: 1"=1000'	
PAD#:			WELL#:		
REV. DWN.		DESCRIPTION		DATE	
1	CLC	NAME CHANGE		04/23/18	