

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

API NUMBER: 047 25069

Approval Date: 06/13/2016
Expiration Date: 12/13/2016

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 29 Twp: 20N Rge: 7W

County: GARFIELD

SPOT LOCATION: SW SE SE SW

FEET FROM QUARTER: FROM SOUTH FROM WEST

SECTION LINES: 244 1994

Lease Name: MCGEE

Well No: 29-1H

Well will be 244 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

MICHAEL MCGEE
517 SOUTH CIMARRON ST.
HENNESSEY OK 73742

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

Name	Depth	Name	Depth
1	MISSISSIPPI LIME	7070	6
2			7
3			8
4			9
5			10

Spacing Orders: 619070

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201602146

Special Orders:

Total Depth: 12182

Ground Elevation: 1120

Surface Casing: 410

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

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: BISON

Approved Method for disposal of Drilling Fluids:

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

PERMIT NO: 16-31308

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 29 Twp 20N Rge 7W County GARFIELD

Spot Location of End Point: NE NW NE NW

Feet From: NORTH 1/4 Section Line: 165

Feet From: WEST 1/4 Section Line: 1960

Depth of Deviation: 6920

Radius of Turn: 686

Direction: 359

Total Length: 4184

Measured Total Depth: 12182

True Vertical Depth: 7545

End Point Location from Lease,
Unit, or Property Line: 165

Notes:

Category

Description

HYDRAULIC FRACTURING

6/10/2016 - G71 - OCC 165:10-3-10 REQUIRES: 1) THE CHEMICAL DISCLOSURE OF HYDRAULIC FRACTURING INGREDIENTS FOR ALL WELLS BE REPORTED TO FRACFOCUS USING THE FOLLOWING LINK [HTTP://FRACFOCUS.ORG/](http://fracfocus.org/) WITH NOTICE GIVEN 48 HOURS IN ADVANCE OF FRACTURING TO THE LOCAL OCC DISTRICT OFFICE; AND, 2) PRIOR TO COMMENCEMENT OF FRACTURING OPERATIONS FOR HORIZONTAL WELLS, NOTICE ALSO GIVEN FIVE BUSINESS DAYS IN ADVANCE TO OFFSET OPERATORS WITH WELLS COMPLETED IN THE SAME COMMON SOURCE OF SUPPLY WITHIN 1/2 MILE.

PENDING CD - 201602146

6/13/2016 - G60 - (E.O.) 29-20N-7W
X619070 MSSLM, OTHERS
SHL NCT 0' FSL, NCT 660' FEL OR NCT 660' FWL
COMPL. INT. NCT 165' FSL, NCT 165' FNL, NCT 660' FEL OR FWL
GASTAR EXPLORATION INC.
REC. 6-13-16 (DECKER)

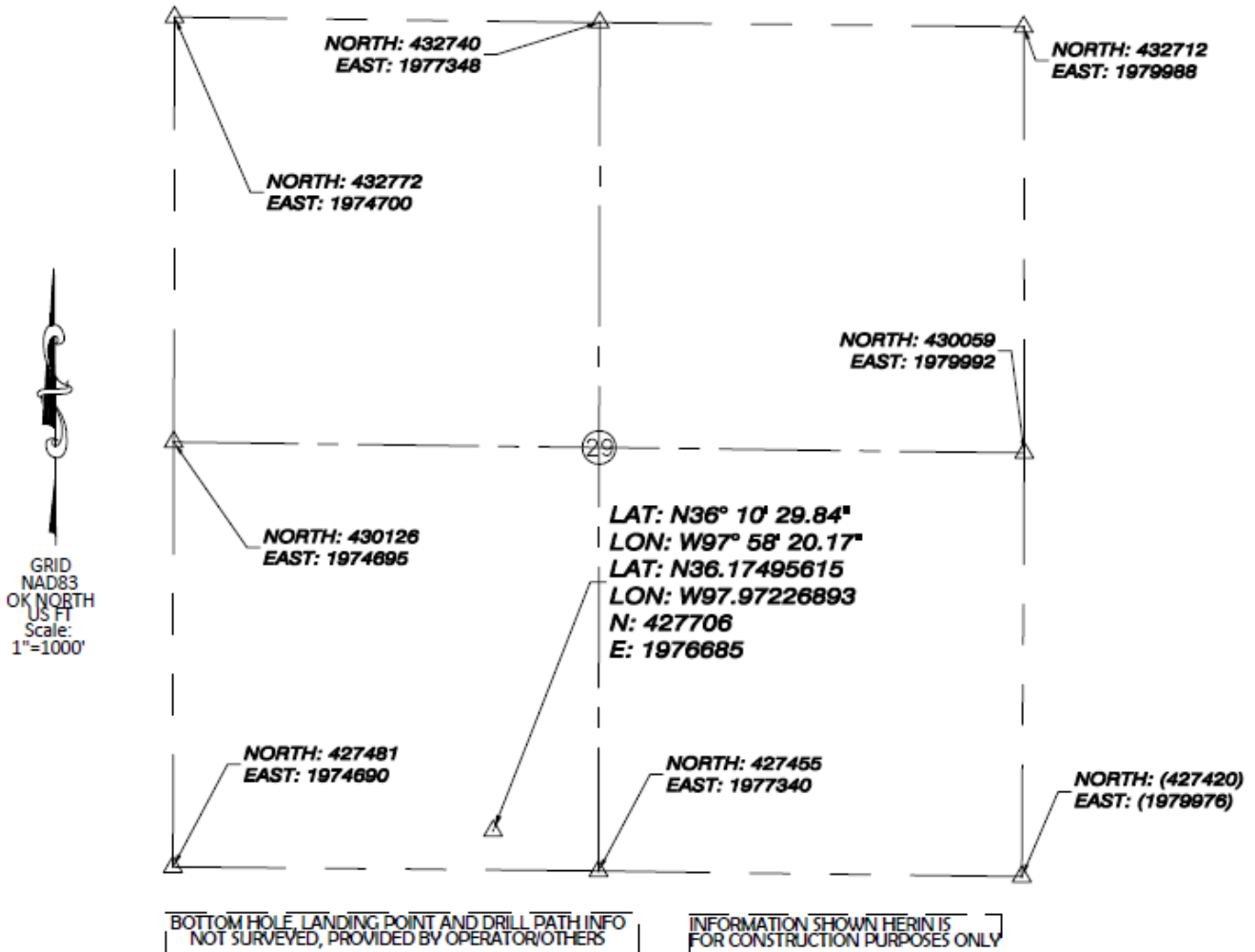
SPACING - 619070

6/13/2016 - G60 - (640)(HOR) 29-20N-7W
EXT 608308 MSSLM, OTHERS
COMPL. INT. NCT 660' FB
(SUPERSEDE SP. ORDER 47499 MRMC, SP. ORDER 65632/19688 MNNG, NON-DEVELOPED NON-HORIZONTAL SPACING UNITS)

API: 047-25069

PETRO LAND SERVICES, LLC
10404 VINEYARD BLVD., OKLAHOMA CITY, OK 73120 (405) 212-3108
Certificate of Authorization: 7318

GARFIELD County, Oklahoma
244' FSL - 1994' FWL Section 29 Township 20N Range 7W I.M.



OPERATOR GASTAR
LEASE NAME: McGEE

WELL No.: 29-1H **ELEVATION:**
1120' GROUND AT STAKE

TOPOGRAPHY & VEGETATION: Location fell on existing well pad
GOOD DRILL SITE? Yes REFERENCE STAKES OR ALTERNATE LOCATION
STAKE(S) SET: NO
BEST ACCESSIBILITY TO LOCATION: From Marshall Road
DIST & DIRECTION:
FROM HWY JCT. OR TOWN: From the Jct of US 81 and Marshall Rd. go ±4 miles West to the SE Corner of Sec 29

DATUM: NAD83 JOB No.: _____ DATE OF DRAWING: 06/02/2016 BV: MG
LAT: 36°10'29.84"N DATE SURVEYED: 06/02/2016 BV: JH
LONG: 97°58'20.17"W
LAT: 36.17495615°N
LONG: 97.97226893°W
STATE PLANE
COORDINATES (US SRV FEET):
ZONE: OK North
X: 1976685
Y: 427706

CERTIFICATE:
This plat represents a proposed well location and does not represent a true boundary survey. The footages and ties shown are from lines of occupation, not from actual property corners. All landowner information, property lines and descriptions are shown based on information provided by others.
Mark T. Gay
Oklahoma RPLS No.1354



Survey information shown herein was derived from occupation lines and/or ± 1" GPS Accuracy.