

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

API NUMBER: 073 25358

Approval Date: 08/16/2016  
Expiration Date: 02/16/2017

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 32 Twp: 18N Rge: 6W

County: KINGFISHER

SPOT LOCATION:  NW  NE  NE  NE

FEET FROM QUARTER: FROM NORTH FROM EAST

SECTION LINES: 143 316

Lease Name: INGLE

Well No: 29-1H

Well will be 143 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

DAVID AND TWILA INGLE  
19762 EAST 700 ROAD  
DOVER OK 73734

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

Name	Depth	Name	Depth
1 MISS'AN (EX CHESTER)	7062	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 643348

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201603277

Special Orders:

Total Depth: 12178

Ground Elevation: 1108

**Surface Casing: 360**

Depth to base of Treatable Water-Bearing FM: 130

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 AP/TE DEPOSIT

Pit Location Formation: TERRACE

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

PERMIT NO: 16-31520

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 18N Rge 6W County KINGFISHER

Spot Location of End Point: NW NE NE NE

Feet From: SOUTH 1/4 Section Line: 2475

Feet From: WEST 1/4 Section Line: 2119

Depth of Deviation: 6533

Radius of Turn: 679

Direction: 359

Total Length: 4579

Measured Total Depth: 12178

True Vertical Depth: 7159

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

Notes:

Category

Description

HYDRAULIC FRACTURING

8/16/2016 - 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 - 201603277

8/16/2016 - G60 - (E.O.) 29-18N-6W  
X643348 MSNLC, OTHERS  
COMPL. INT. 165, FSL, NCT 165' FNL, NCT 330' FEL, NCT 330' FWL  
GASTAR EXPLORATION INC.  
REC. 8-16-16 (P. PORTER)

SHL

8/16/2016 - G60 - 143' FNL, 316' FEL (32-18N-6W) PER SURVEY PLAT

SPACING - 643348

8/16/2016 - G60 - (640)(HOR) 29-18N-6W  
EXT OTHER  
EST MSNLC  
POE TO BHL NLT 660' FB  
(COEXIST WITH SP. ORDER 53420/62761 MSSLM)

# PETRO LAND SERVICES SOUTH, LLC

10404 VINEYARD BLVD. SUITE D, OKLA. CITY, OKLA. 73120 \* OFFICE (405) 212-3108  
Certificate of Authorization No. 7318

KINGFISHER

County Oklahoma

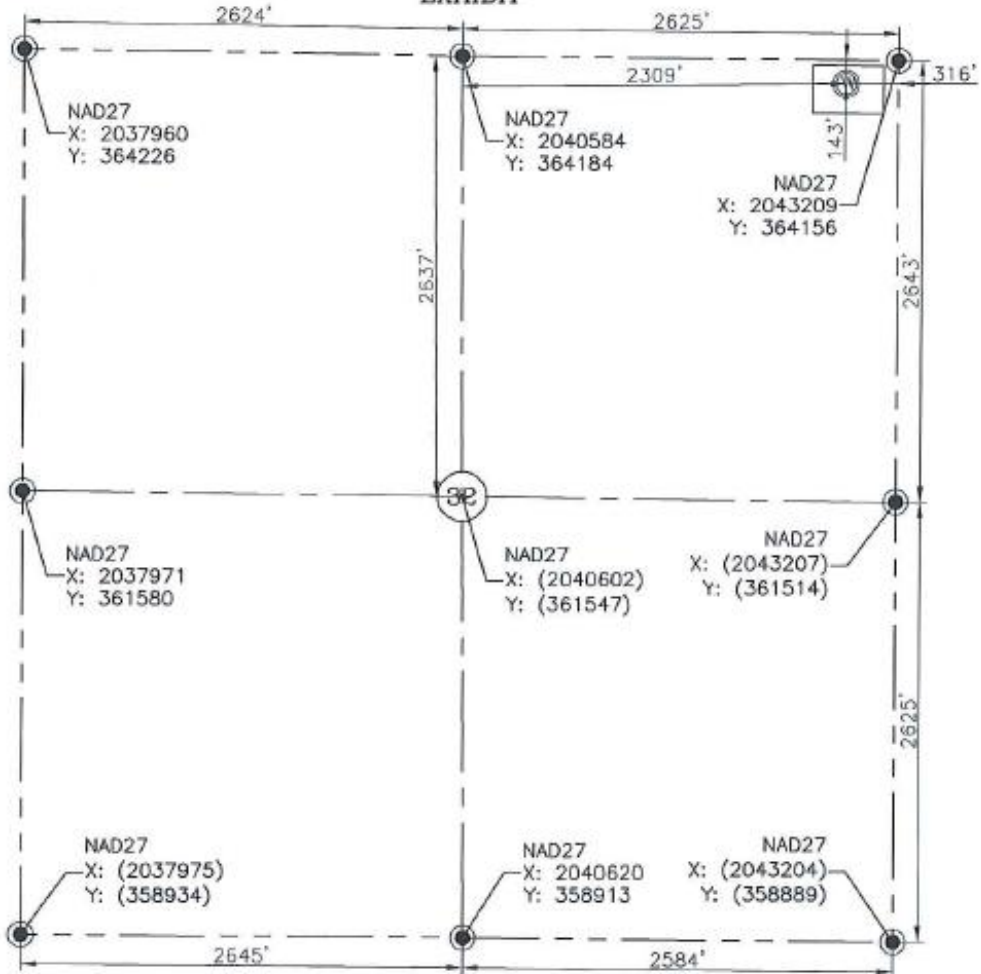
143' FNL-316' FEL Section 32 Township 18N Range 6W 1.M.

## EXHIBIT



GRID  
NAD27  
OK NORTH  
US FEET  
SCALE:  
1" = 1000'

THE INFORMATION SHOWN HEREIN IS FOR CONSTRUCTION PURPOSES ONLY  
LANDING POINT, BOTTOM HOLE AND DRILL PATH INFORMATION PROVIDED BY OPERATOR LISTED, NOT SURVEYED.



DATUM: NAD27  
LAT: N35°59'59.77"  
LONG: W97°51'17.98"  
LAT: N35.999937°  
LONG: W97.854995°  
STATE PLANE COORDINATES (US FEET): OK NORTH  
X: 2042893  
Y: 364016

LEGEND:  
PERENTHESIS = (CALCULATED)

NOTE: THIS INFORMATION WAS GATHERED WITH A GPS RECIEVER WITH ±1 FOOT HORIZ./VERT. ACCURACY.

ELEVATION:  
GROUND EL= 1108.4'

### CERTIFICATE:

This exhibit represents a proposed well location and does not represent a tru boundary survey. The footages and ties shown are from lines of occupation, not from actual property corners.

Oklahoma RPLS No.1354 Date: 8/08/16



### REVISIONS

NO.	DATE	REV BY	DESCRIPTION	CHK BY