

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

API NUMBER: 073 25399

Approval Date: 10/18/2016
Expiration Date: 04/18/2017

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 27 Twp: 18N Rge: 8W

County: KINGFISHER

SPOT LOCATION: SW SW SW SE

FEET FROM QUARTER: FROM SOUTH FROM EAST

SECTION LINES: 149 2425

Lease Name: ELDON

Well No: 34-1H

Well will be 149 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

ELDON AND JANICE SNOWDEN
11490 NORTH 2790 ROAD
DOVER OK 73734

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

Name	Depth	Name	Depth
1 MISS'AN (EX CHESTER)	7918	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 649474

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201603927

Special Orders:

Total Depth: 13086

Ground Elevation: 1124

Surface Casing: 460

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: 2

Liner not required for Category: 2

Pit Location is BED AQUIFER

Pit Location Formation: CEDAR HILLS

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

PERMIT NO: 16-31661

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 34 Twp 18N Rge 8W County KINGFISHER

Spot Location of End Point: SE SW SW SE

Feet From: SOUTH 1/4 Section Line: 165

Feet From: EAST 1/4 Section Line: 2218

Depth of Deviation: 7435

Radius of Turn: 632

Direction: 177

Total Length: 4658

Measured Total Depth: 13086

True Vertical Depth: 8070

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

Notes:

Category	Description
HYDRAULIC FRACTURING	10/17/2016 - 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/ 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 - 201603927	10/17/2016 - G60 - (I.O.) 34-18N-8W X649474 MSNLC SHL NCT 0' FSL, NCT 660' FEL OR FWL POE TO BHL NCT 165' FSL, NCT 165' FNL, NCT 660' FEL NO OP. NAMED REC. 10/11/16 (P. PORTER)
SPACING - 649474	10/17/2016 - G60 - (640)(HOR) 34-18N-8W EXT 644729 MSNLC COMPL. INT. NCT 660' FB (COEXIST WITH SP. ORDER 77564 MSSSD W2 SW4; SP. ORDER 91749 MSSSD E2, E2 W2, W2 NW4)

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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.

PETRO LAND SERVICES SOUTH, LLC

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

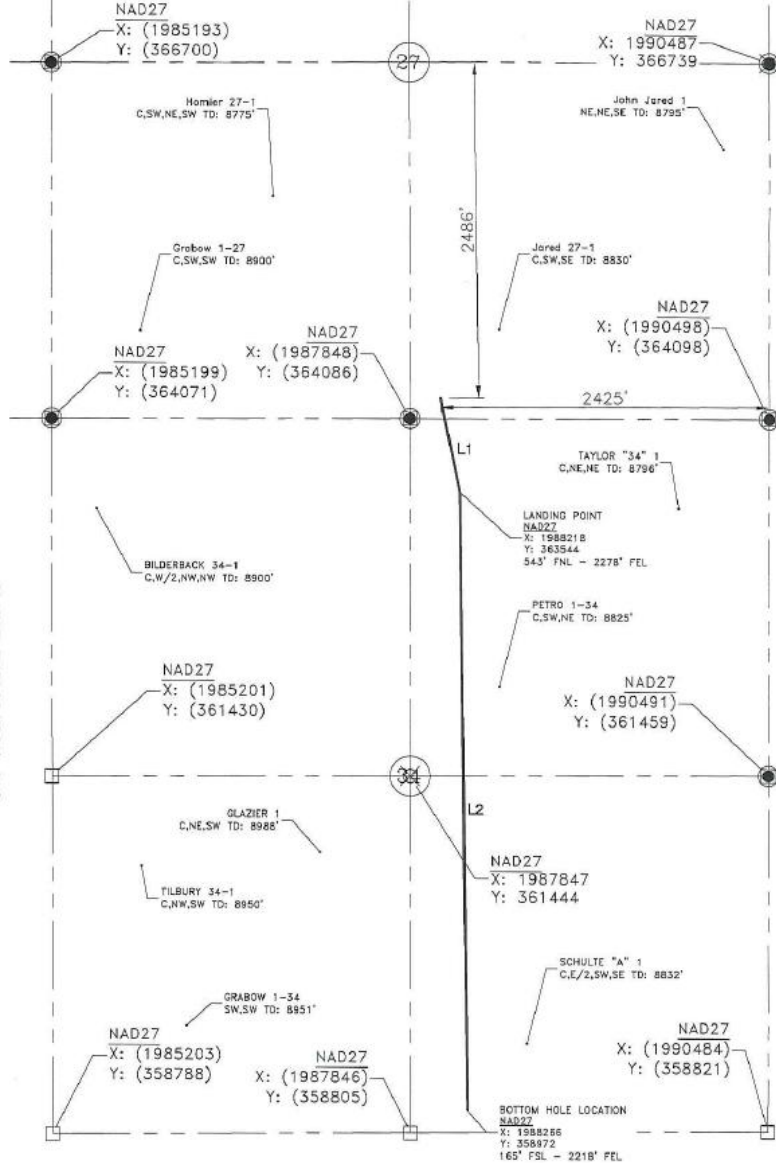
KINGFISHER County, Oklahoma
 2425' FEL 149' FSL Section 27 Township 18N Range 8W I.M.

EXHIBIT



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

OPERATOR: GASTAR EXPLORATION, LLC
LEASE NAME: ELDON 34
WELL No.: 1H
TOPOGRAPHY & VEGETATION: Location fall in flat cultivated field
GOOD DRILL SITE: Yes
REFERENCE STAKES OR ALTERNATE LOCATION STAKES(S) SET: NONE
BEST ACCESSIBILITY TO LOCATION: From E. 0700 Rd.
DIST & DIRECTION: From Hwy 101, OR TOWN: From Loyd, OK, head East on E 0720 Rd for 3.9 miles. Turn left on N 2780 Rd. for 2 miles, then turn right onto E 0700 Rd. for 0.5 miles.



LEGEND:
 PARENTHESIS = (CALCULATED)

NOTE:
 This exhibit represents a proposed well location and path. It is not a true boundary survey. The footages and ties shown are for information, and/or ± 1' GPS Accuracy, not from actual property corners. Existing well locations are from record data. Accuracy and location not verified.

DATUM: NAD27
LAT: 36°00'02.23"N
LONG: 98°02'25.16"W
LAT: 36.000620°N
LONG: 98.040322°W

STATE PLANE COORDINATES (US SRV FEET):
ZONE: Ok North
X: 1988072.8
Y: 364235.5

ELEVATION:
 1124.9' GROUND AT STAKE

PROPOSED DRILL PATH	
LINE:	DISTANCE'
L1:	709'
L2:	4572'
WELL DISTANCES	
TO S. SECTION LINE:	149'
TO E. SECTION LINE:	2425'
TO W 1/4 LINE:	225'
TO N 1/4 LINE:	2486'



CERTIFICATE
 I, Beau Winfrey an Oklahoma Licensed Land Surveyor and an authorized agent of Petro Land Services South, LLC, do hereby certify to the information shown herein. 10/18/2016
 Oklahoma/RPLS No. 1766



PLS
 SURVEY & MAPPING BY: