

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

API NUMBER: 151 24504

Approval Date: 03/22/2017  
Expiration Date: 09/22/2017

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 01 Twp: 26N Rge: 16W County: WOODS  
SPOT LOCATION:  NE  NW  NE  NW FEET FROM QUARTER: FROM NORTH FROM WEST  
SECTION LINES: 225 1700

Lease Name: HUGHES 2616 Well No: 1H-01 C Well will be 225 feet from nearest unit or lease boundary.  
Operator Name: MIDSTATES PETROLEUM COMPANY LLC Telephone: 9189478550 OTC/OCC Number: 23079 0

MIDSTATES PETROLEUM COMPANY LLC  
321 S BOSTON AVE STE 1000  
TULSA, OK 74103-3322

HUGHES FARMS C/O DON HUGHES  
8230 CR 540  
ALINE OK 73716

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

Name	Depth	Name	Depth
1	MISSISSIPPIAN	6037	6
2			7
3			8
4			9
5			10

Spacing Orders: No Spacing

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201701215  
201701214

Special Orders:

Total Depth: 11200 Ground Elevation: 1649

**Surface Casing: 1300**

Depth to base of Treatable Water-Bearing FM: 740

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: Yes

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: 25000 Average: 8000

E. Haul to Commercial pit facility: Sec. 10 Twn. 26N Rng. 15W Cnty. 151 Order No: 563714

Is depth to top of ground water greater than 10ft below base of pit? Y

H. CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST

Within 1 mile of municipal water well? N

Wellhead Protection Area? N

Pit is not located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C

Pit Location is NON HSA

Pit Location Formation: FLOWERPOT

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 01 Twp 26N Rge 16W County WOODS

Spot Location of End Point: S2 S2 SW SE

Feet From: SOUTH 1/4 Section Line: 165

Feet From: EAST 1/4 Section Line: 1980

Depth of Deviation: 5072

Radius of Turn: 750

Direction: 160

Total Length: 4950

Measured Total Depth: 11200

True Vertical Depth: 6037

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

Notes:

Category	Description
DEEP SURFACE CASING	3/1/2017 - G71 - APPROVED; NOTIFY OCC FIELD INSPECTOR IMMEDIATELY FOR ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON CONDUCTOR OR SURFACE CASING
HYDRAULIC FRACTURING	3/1/2017 - 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 <a href="http://fracfocus.org/">HTTP://FRACFOCUS.ORG/</a> 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 - 201701214	3/2/2017 - G75 - (640)(HOR) 1-26N-16W EXT 659522 MSSP POE TO BHL NLT 660' FB REC 3-21-2017 (MCKEOWN)
PENDING CD - 201701215	3/2/2017 - G75 - (I.O.) 1-26N-16W X201701214 MSSP COMPL. INT. NCT 165' TO NL, NCT 165' TO SL, NCT 1320' TO EL NO OP. NAMED REC 3-21-2017 (MCKEOWN)

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.

**TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA**

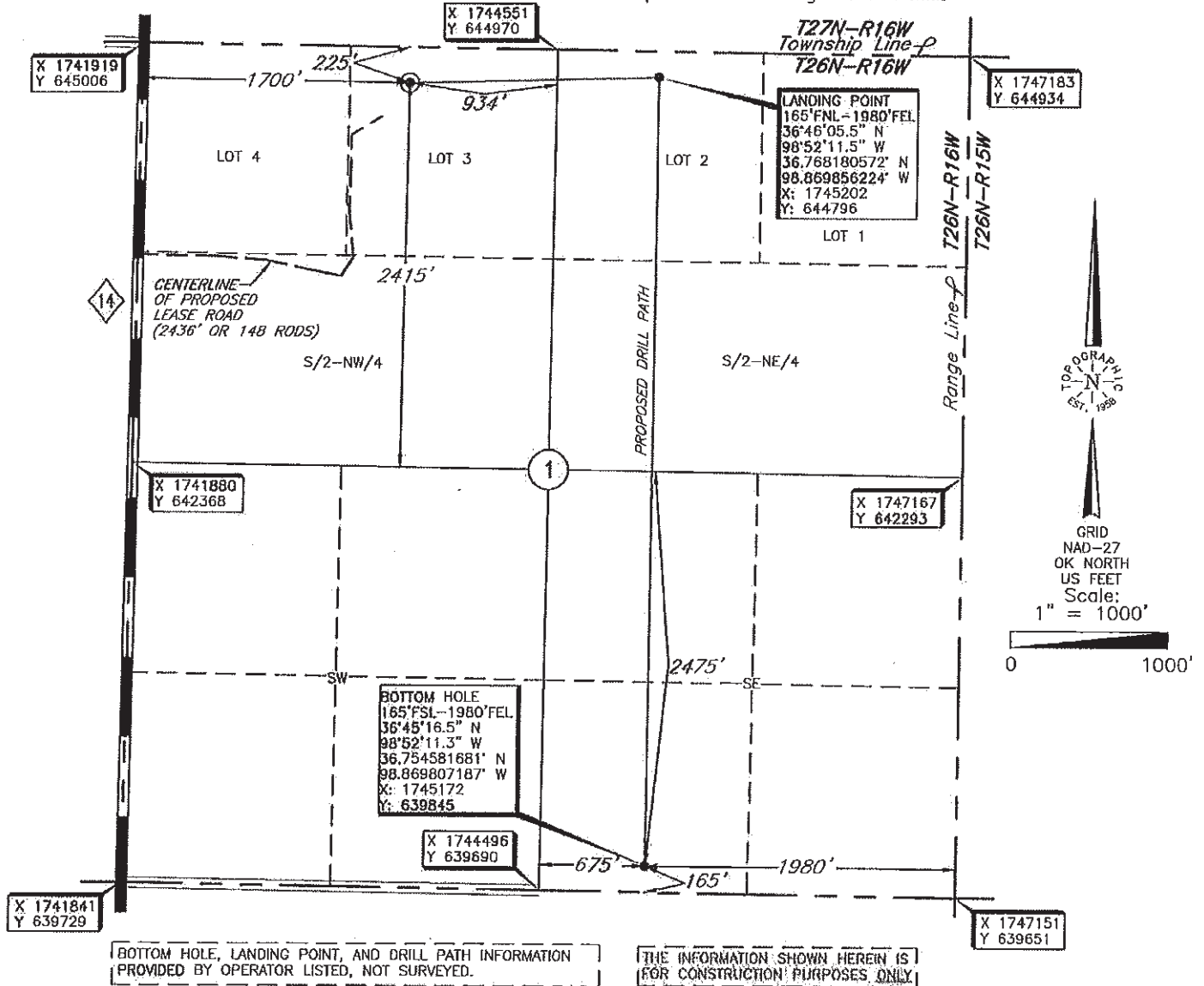
6709 NORTH CLASSEN BLVD., OKLA. CITY, OKLA. 73116 \* LOCAL (405) 843-4847 \* OUT OF STATE (800) 654-3219  
 Certificate of Authorization No. 1293 LS

WOODS

County, Oklahoma

API 151-24504

225'FNL-1700'FWL Section 1 Township 26N Range 16W I.M.



Operator: MIDSTATES PETROLEUM COMPANY, LLC  
 Lease Name: HUGHES 2616

Well No.: 1H-01C **ELEVATION:** 1649' Gr. at Stake

Topography & Vegetation Location fell in sloping grass pasture.

Good Drill Site? Yes Reference Stakes or Alternate Location  
 Stakes Set None

Best Accessibility to Location From St. Hwy. 14 west of well location.

Distance & Direction  
 from Hwy Jct or Town From Arvard, OK., go west ±5.0 miles to St. Hwy. 14 N-S, the go North on St. Hwy. 14 for ±5.0 miles to the Northwest Corner of Section 1, T26N-R16W.

*This information was gathered with a GPS receiver with ±1 foot Horiz./Vert. accuracy*

DATUM: NAD-27  
 LAT: 36°46'04.9"N  
 LONG: 98°52'31.0"W  
 LAT: 36.768035555°N  
 LONG: 98.875273384°W

STATE PLANE  
 COORDINATES (US FEET):  
 ZONE: OK NORTH  
 X: 1743615  
 Y: 644758

Date of Drawing: Feb. 22, 2017  
 Invoice # 269701 Date Staked: Feb. 21, 2017 JWJ

**CERTIFICATE:**

I, Thomas L. Howell an Oklahoma Licensed Land Surveyor and an authorized agent of Topographic Land Surveyors of Oklahoma, do hereby certify to the information shown herein.

Thomas L. Howell  
 Oklahoma Reg. No. 1433

