

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

API NUMBER: 151 24506

Approval Date: 06/01/2017
Expiration Date: 12/01/2017

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 34 Twp: 25N Rge: 13W County: WOODS
SPOT LOCATION: NE NW NW NE FEET FROM QUARTER: FROM NORTH FROM EAST
SECTION LINES: 250 2015

Lease Name: THAD 2513 Well No: 2H-34 B Well will be 250 feet from nearest unit or lease boundary.
Operator Name: MIDSTATES PETROLEUM CO LLC Telephone: 9189478550 OTC/OCC Number: 23079 0

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

MARK & GENA DENTON
48260 COMANCHE RD.
DACOMA OK 73731

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

Name	Depth	Name	Depth
1 MISSISSIPPI LIME	6229	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 131862

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201702680
201702681

Special Orders:

Total Depth: 11200 Ground Elevation: 1369 **Surface Casing: 1300** Depth to base of Treatable Water-Bearing FM: 230

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

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

E. Haul to Commercial pit facility: Sec. 10 Twn. 26N Rng. 15W Cnty. 151 Order No: 563714
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 25N Rge 13W County WOODS

Spot Location of End Point: S2 S2 SE SW

Feet From: SOUTH 1/4 Section Line: 165

Feet From: WEST 1/4 Section Line: 1980

Depth of Deviation: 5501

Radius of Turn: 477

Direction: 190

Total Length: 4950

Measured Total Depth: 11200

True Vertical Depth: 6229

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

Notes:

Category	Description
DEEP SURFACE CASING	6/1/2017 - 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	6/1/2017 - 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 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 - 201702680	6/1/2017 - G75 - (E.O.) 34-25N-13W X131862 MSSLM COMPL. INT. NCT 165' TO NL, NCT 165' TO SL, NCT 1320' TO WL MIDSTATES PETRO. CO. LLC REC 5-23-2017 (JOHNSON)
PENDING CD - 201702681	6/1/2017 - G75 - (E.O.) 34-25N-13W X131862 MSSLM 1 WELL MIDSTATES PETRO. CO. LLC REC 5-23-2017 (JOHNSON)
SPACING - 131862	6/1/2017 - G75 - (640) 34-25N-13W EXT OTHER EXT 44669 MSSLM, OTHER

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TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

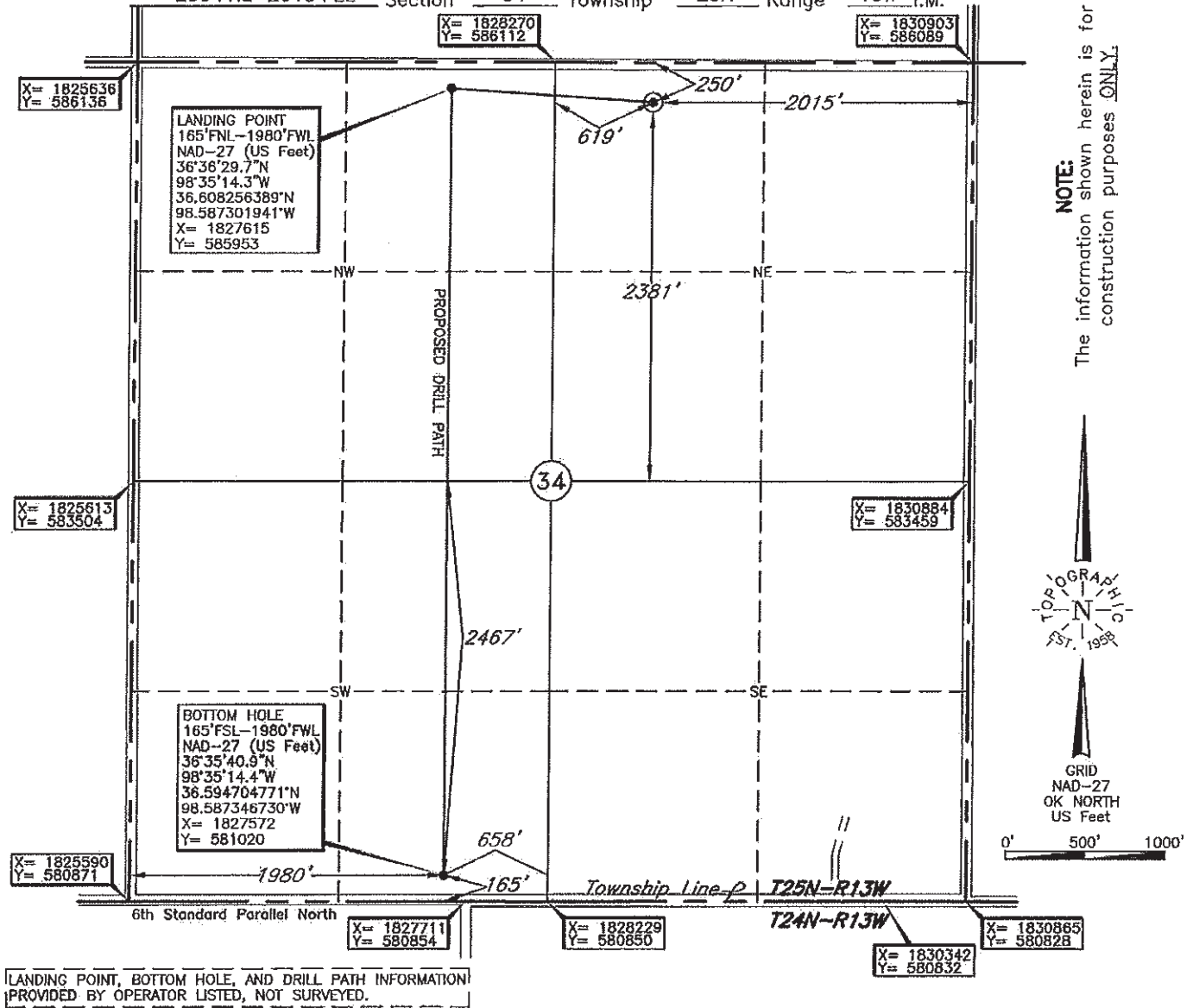
6709 NORTH CLASSEN BLVD., OKLA. CITY, OKLA. 73116 * LOCAL (405) 843-4847 * OUT OF STATE (800) 654-3219
 Certificate of Authorization No. 1293 LS

WOODS

County, Oklahoma

API 151-24506

250'FNL-2015'FEL Section 34 Township 25N Range 13W I.M.



LANDING POINT, BOTTOM HOLE, AND DRILL PATH INFORMATION PROVIDED BY OPERATOR LISTED, NOT SURVEYED.

Operator: MIDSTATES PETROLEUM COMPANY, LLC

Lease Name: THAD 2513

Well No.: 2H-34B

ELEVATION:
1369' Gr. at Level Pad

Topography & Vegetation Loc. fell on level pad, West of existing well head

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

Best Accessibility to Location From North off county road

Distance & Direction from Hwy Jct or Town From Dacoma, OK, go West ±1 mile, then South ±3 miles to the NE Cor. of Sec. 34-T25N-R13W

Date of Drawing: May 12, 2017

Invoice # 275862 Date Staked: May 10, 2017 TR

DATUM: NAD-27
 LAT: 36°36'28.8"N
 LONG: 98°34'58.7"W
 LAT: 36.608012382°N
 LONG: 98.582967604°W
 STATE PLANE
 COORDINATES: (US Feet)
 ZONE: OK NORTH
 X: 1828886
 Y: 585857

CERTIFICATE:

I, Lee K. Goss an Oklahoma Licensed Land Surveyor and an authorized agent of Topographic Land Surveyors of Oklahoma, do hereby certify to the information shown herein

Lee K. Goss
 Oklahoma Lic. No. 1778



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