

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

API NUMBER: 003 23292

Approval Date: 09/20/2017
Expiration Date: 03/20/2018

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 11 Twp: 24N Rge: 12W County: ALFALFA
SPOT LOCATION: SE SW SW SW FEET FROM QUARTER: FROM SOUTH FROM WEST
SECTION LINES: 215 385

Lease Name: DEAN 2412 Well No: 2H-14 B Well will be 215 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

DEAN & CHRISTA HUGHES
105 W. MAIN
CARMEN OK 73726

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

Name	Depth	Name	Depth
1	MISSISSIPPIAN	6320	6
2			7
3			8
4			9
5			10

Spacing Orders: 661490

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201705726
201705725

Special Orders:

Total Depth: 11200

Ground Elevation: 1317

Surface Casing: 400

Depth to base of Treatable Water-Bearing FM: 350

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: Yes

PIT 1 INFORMATION

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

Approved Method for disposal of Drilling Fluids:

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 14 Twp 24N Rge 12W County ALFALFA

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: 5509

Radius of Turn: 477

Direction: 170

Total Length: 4942

Measured Total Depth: 11200

True Vertical Depth: 6320

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

Notes:

Category

Description

HYDRAULIC FRACTURING

8/25/2017 - G58 - OCC 165:10-3-10 REQUIRES:

- 1) PRIOR TO COMMENCEMENT OF HYDRAULIC FRACTURING OPERATIONS FOR HORIZONTAL WELLS, NOTICE GIVEN FIVE BUSINESS DAYS IN ADVANCE TO OFFSET OPERATORS WITH WELLS COMPLETED IN THE SAME COMMON SOURCE OF SUPPLY WITHIN 1/2 MILE;
- 2) WITH NOTICE ALSO GIVEN 48 HOURS IN ADVANCE OF HYDRAULIC FRACTURING ALL WELLS TO BOTH THE OCC CENTRAL OFFICE AND LOCAL DISTRICT OFFICES, USING THE "FRAC NOTICE FORM" FOUND AT THE FOLLOWING LINK: OCCEWEB.COM/OG/OGFORMS.HTML; AND,
- 3) THE CHEMICAL DISCLOSURE OF HYDRAULIC FRACTURING INGREDIENTS FOR ALL WELLS TO BE REPORTED TO FRACFOCUS WITHIN 60 DAYS AFTER THE CONCLUSION THE HYDRAULIC FRACTURING OPERATIONS, USING THE FOLLOWING LINK: FRACFOCUS.ORG

PENDING CD - 201705725

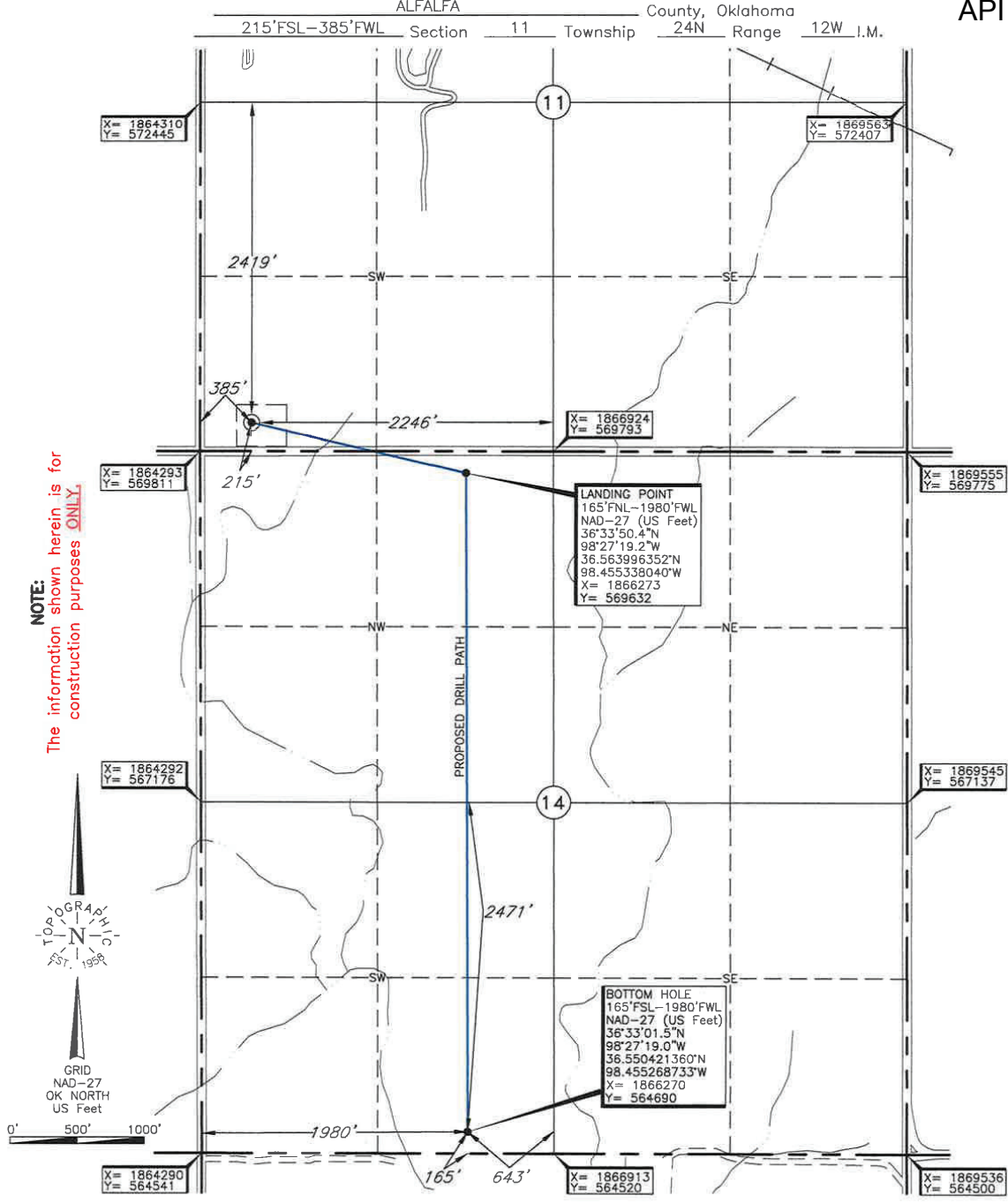
8/28/2017 - G75 - 14-24N-12W
X661490 MSSP
1 WELL
NO OP. NAMED
REC 9-19-2017 (JOHNSON)

PENDING CD - 201705726

8/28/2017 - G75 - (I.O.) 14-24N-12W
X661490 MSSP
COMPL. INT. NCT 165' TO NL, NCT 165' TO SL, NCT 600' TO WL
NO OP. NAMED
REC 9-19-2017 (JOHNSON)

SPACING - 661490

8/28/2017 - G75 - (640)(HOR) 14-24N-12W
VAC 59196/61020 MSSLM
VAC 99179 MNNG
EXT 596709 MSSP
COMPL. INT. NCT 660' FB



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

Operator: MIDSTATES PETROLEUM COMPANY, LLC

Lease Name: DEAN 2412

Well No.: 2H-14B

ELEVATION:

1317' Gr. at Level Pad

Topography & Vegetation Loc. fell on existing pad, ±21 North of flow line, ±34' North of existing well

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

Best Accessibility to Location From South off county road.

Distance & Direction
 from Hwy Jct or Town From Carmen, OK, go South ±1 mile to the SW Cor. of Sec. 11-T24N-R12W.

This information was gathered with GPS accuracy with ±1 foot horiz./vert. accuracy

DATUM: NAD-27
 LAT: 36°33'54.2"N
 LONG: 98°27'38.8"W
 LAT: 36.565048931°N
 LONG: 98.460770533°W
 STATE PLANE
 COORDINATES: (US Feet)
 ZONE: OK NORTH
 X: 1864679
 Y: 570023

Date of Drawing: Aug. 23, 2017
 Invoice # 280158 Date Staked: Aug. 22, 2017 TR

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 Lic. No. 1433

