

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

API NUMBER: 083 24420

Approval Date: 02/05/2018

Expiration Date: 08/05/2018

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 22 Twp: 19N Rge: 4W

County: LOGAN

SPOT LOCATION:

FEET FROM QUARTER: FROM SOUTH FROM WEST

SECTION LINES: 297 2455

Lease Name: DENALI 22-19N-4W

Well No: 2MH

Well will be 297 feet from nearest unit or lease boundary.

Operator Name: WHITE STAR PETROLEUM LLC

Telephone: 4052525821; 8444024

OTC/OCC Number: 23358 0

WHITE STAR PETROLEUM LLC  
PO BOX 13360  
OKLAHOMA CITY, OK 73113-1360

MATHESON FARMS  
1430 S. LYNN LANE RD  
TULSA OK 74108

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

	Name	Depth	Name	Depth
1	MISSISSIPPIAN	5681	6	
2			7	
3			8	
4			9	
5			10	

Spacing Orders: 607771

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201800120  
201800122

Special Orders:

Total Depth: 11000

Ground Elevation: 1004

Surface Casing: 590

Depth to base of Treatable Water-Bearing FM: 340

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: 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 BED AQUIFER

Pit Location Formation: GARBER

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 18-33716  
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 22 Twp 19N Rge 4W County LOGAN

Spot Location of End Point: NE NW NW NE

Feet From: NORTH 1/4 Section Line: 165

Feet From: EAST 1/4 Section Line: 2300

Depth of Deviation: 5145

Radius of Turn: 573

Direction: 8

Total Length: 4954

Measured Total Depth: 11000

True Vertical Depth: 5862

End Point Location from Lease,

Unit, or Property Line: 165

## Notes:

### Category

### Description

HYDRAULIC FRACTURING

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](http://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](http://FRACFOCUS.ORG)

PENDING CD - 201800120

1/30/2018 - G57 - (I.O.) 22-19N-4W  
X607771 MSSP  
2 WELLS  
NO OP. NAMED  
REC 1-30-2018 (MINMIER)

PENDING CD - 201800122

1/30/2018 - G57 - (I.O.) 22-19N-4W  
X607771 MSSP  
COMPL. INT. NCT 165' FSL, NCT 165' FNL, NCT 1320' FEL  
NO OP. NAMED  
REC 1-30-2018 (MINMIER)

SPACING - 607771

1/30/2018 - G57 - (640)(HOR) 22-19N-4W  
EXT 591961 MSSP, OTHERS  
POE TO BHL NCT 660' FB  
(SUPERSEDE NON-PRODUCING NON-HORIZONTAL SPACING UNITS; COEXIST WITH PRODUCING NON-HORIZONTAL SPACING UNITS)

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083 24420 DENALI 22-19N-4W 2MH

## PETRO LAND SERVICES SOUTH, LLC

10404 VINEYARD BLVD. SUITE G100, OKLA. CITY, OKLA. 73120 \* OFFICE (405) 212-3108  
Certificate of Authorization No. 7318

LOGAN

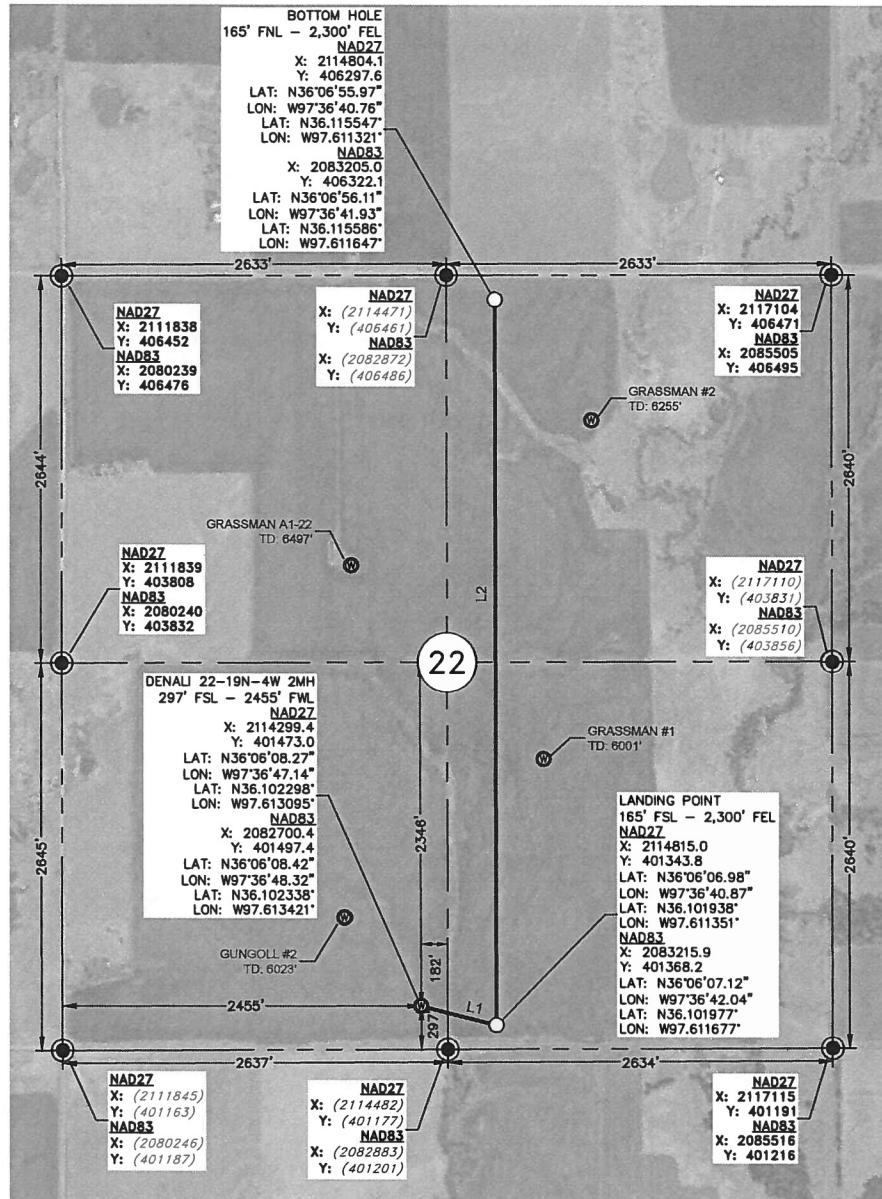
County, Oklahoma

297' FSL - 2455' FWL Section 22 Township 19N Range 4W I.M.

## EXHIBIT

OK STATE  
PLANE GRID  
NORTH  
US FT Scale:  
1"=1000'

OPERATOR: WHITE STAR PETROLEUM, LLC  
 LEASE NAME: DENALI 22-19N-4W  
 WELL No.: 2MH  
 TOPOGRAPHY & VEGETATION: Location fell in flat cultivated field  
 GOOD DRILL SITE? YES  
 BEST ACCESSIBILITY TO LOCATION: From CR E0630 on South side of Rd  
 DRIVING DIRECTIONS: FROM INT OF HWY 74 AND CR E0630, TRAVEL WEST ON  
 FROM HWY JCT. OR TOWN: CR E0630 1.5 MILES



## LEGEND

- SECTION LINE  
 --- 1/4 SEC. LINE  
 --- DRILL PATH  
 --- EXISTING WELLS  
 --- WITHIN 1500 FT  
 --- (OCC DATA)
- DOE 1-1N-1W 1MH  
 TD: 7000'

## NOTE:

This exhibit represents a proposed well location and does not represent a true boundary survey. The footages and ties shown are from lines of occupation, and/or  $\pm 1'$  GPS Accuracy, not from actual property corners.

## CERTIFICATE:

I, RANDALL J. BILYEU, an Oklahoma Professional Land Surveyor and an authorized agent of Petro Land Services South, LLC, do hereby certify to the information shown herein.



*Randall J. Bilyeu*

Oklahoma RPLS No.1196

DATE

PREPARED FOR:

**WHITE STAR**  
 PETROLEUM

SURVEY &amp; MAPPING BY:

**PLS**  
 OK CA #7318

The information shown herein was derived from occupation lines and/or  $\pm 1'$  GPS Accuracy.

DATUM: NAD27

LAT: N36°06'08.27"

LONG: W97°36'47.14"

LAT: N36°102298"

LONG: W97°36'47.14"

STATE PLANE COORDINATES (US SRV FT):

ZONE: OK NORTH

X: 2114299.4

Y: 401473.0

ELEVATION:

1003.9' GROUND AT STAKE

PARENTHESES = (CALCULATED)

PROPOSED DRILL PATH	
LINE:	DIST:
L1:	531'
L2:	4954'
WELL DISTANCES	
TO S SECTION LINE:	297'
TO W SECTION LINE:	2455'
TO E 1/4 SEC. LINE:	182'
TO N 1/4 SEC. LINE:	2346'

REV.	DATE	APPD.
No. 0	10/13/2017	BW
No. 1	01/19/2018	ML

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