API NUMBER: 119 24418

Oil & Gas

Horizontal Hole

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

Approval Date: 10/17/2016
Expiration Date: 04/17/2017

PERMIT TO DRILL

WELL LOCATION: Sec: 34 Twp: 18N Rge: 1E County: PAYNE

SPOT LOCATION: NW NW NE NW FEET FROM QUARTER: FROM NORTH FROM WEST

SECTION LINES: **221 1560**

Lease Name: WAYNE 27-18N-1E Well No: 2MH Well will be 221 feet from nearest unit or lease boundary.

Operator WHITE STAR PETROLEUM LLC Telephone: 8444024903 OTC/OCC Number: 23358 0

WHITE STAR PETROLEUM LLC

PO BOX 13360

OKLAHOMA CITY, OK 73113-1360

WAYNE ALLEN BOYCE 9308 WEST 116TH

COYLE OK 73027

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

Name Depth Name Depth MISSISSIPPIAN 1 4852 6 2 7 3 8 4 9 10 635754 Spacing Orders: Location Exception Orders: 654497 Increased Density Orders: 654167

Pending CD Numbers: Special Orders:

Total Depth: 10000 Ground Elevation: 1060 Surface Casing: 480 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: 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: CPit Location is BED AQUIFER

Pit Location Formation: WELLINGTON

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 16-31700

H. CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST

HORIZONTAL HOLE 1

PAYNE Sec 27 Twp 18N Rge 1E County Spot Location of End Point: NE NE NE NW Feet From: NORTH 1/4 Section Line: 165 Feet From: WEST 1/4 Section Line: 2520

Depth of Deviation: 4101 Radius of Turn: 900

Direction: 10
Total Length: 4485

Measured Total Depth: 10000

True Vertical Depth: 4926

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

Notes:

Category Description

HYDRAULIC FRACTURING 10/14/2016 - 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.

INCREASED DENSITY - 654167 10/17/2016 - G75 - 27-18N-1E

X635754 MSSP

1 WELL

WHITE STAR PETRO., LLC

7-11-2016

LOCATION EXCEPTION - 654497 10/17/2016 - G75 - (I.O.) 27-18N-1E

X635754 MSSP, OTHERS

COMPL. INT. NCT 165' FSL, NCT 165' FNL, NCT 1320' FWL

WHITE STAR PETRO., LLC

7-20-2016

SPACING - 635754 10/17/2016 - G75 - (640)(HOR) 27-18N-1E

VAC 114771 MSSP EST OTHERS EXT 572610 MSSP POE TO BHL NCT 660' FB

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 PAYNE County, Oklahoma API: 119 24418 221'FNL-1560'FWL 34 Section 18N Range __1E__I.M. Township 2652 2649 DING POINT, BOTTOM HORMATION PROVIDED BY BOTTOM HOLE 165'FNL-2520'FW NAD-27 X 2238564 Y 370218 NAD-83 X 2206966 Y 370245 X 2241215 Y 370268 NAD-83 X 2243864 Y 370221 NAD-83 X 2212266 Y 370248 165 FNL-2520 F NAD-27 36°00'50.2" N 97'11'05.4" W 36.013956' N 97.184833' W X: 2241085 Y: 370101 INFORMATION SHOWN HEREIN IS CONSTRUCTION PURPOSES ONLY X 2209617 Y 370295 • EXISTING WELL 663'FNL-1991'FWL Y: 370101 NAD-83 36'00'50.4" N 97'11'06.5" W 36.014007' N 97.185146' W X: 2209486 Y: 370127 M HOLE AND DRILL PATH BY OPERATOR LISTED, 67 2639 GRID NAD-27 OK NORTH US FEET Scale: 1" = 1000' 1000 Best Accessibility to Loc Distance & Direction from Hwy Jct or Town St. Hwy 33, then ± 1 27 Good Topography Operator: NAD-27 X 2238581 Y 367595 NAD-27 X 2243895 Y 367582 NAD-83 Drill Site? NAD-83 X 2206983 Y 367622 EXISTING WELL 1624'FSL-1740'FWL LANDING POINT 165'FSL-2520'FWL NAD-27 36'00'01.1" N 97'11'05.5" W 36.000304' N 97.184850' W X: 2241122 Y: 365131 NAD-R3 WHITE & Vegetation STAR PETROLEUM 2642 Location From mile Y: 365131 <u>NAD-83</u> 36*00'01.3* N 97*11'06.6* W 36.000355* N 97.185163* W X: 2209523 Y: 365157 Loc. -18N-1E NAD-27 X 2243905 Y 364978 NAD-83 North the From fell Logan/Payne County Line 9 ξ North existing 2647 2656 the NAD-27 X 2238603 Y 364953 off NAD-27 X 2241250 Y 364967 Northwest Reference S Stakes Set SURFACE HOLE NAD-83 35*59*57.5" N 97*11*18.3" W 35.999303* N 97.188412* W X: 2208565 Y: 364767 county road pad WAYNE 27-18N-11 1MH NAD-83 X 2207005 Y 364980 NAD-83 X 2209651 Y 364994 WAYNE 34-18N-1E 2MH Corner Stakes None WAYNE 34~18N-1E 1MH WELL DISTANCES 2627 TO N. SECTION LINE 221' on 으 9 TO W. SECTION LINE 1560' Well Section St. TO S. 1/4 LINE 2408' Alternate TO E. 1/4 LINE 1078' Hwy No.: EXISTING WELL 2298'FNL-1656'FEL 34, 33 2MH Location T18N-R1E go ± (34)2.2 ELEVATION: 1060' Gr. on NAD-27 NAD-27 NAD-27 X 2243908 Y 362350 NAD-83 X 2212310 Y 362378 X 2238610 Y 362324 NAD-83 miles X 2207012 Y 362351 North-Northeast EXISTING WELL 2007'FSL-2299'FWI Existing 2640 Pad 9 NAD-27 X 2241087 Y 359705 NAD-27 X 224373 Y 359722 X 2238447 Y 359688 NAD-83 X 2209489 Y 359733 NAD-83 ND-83 220684 359716 PROPOSED DRILL PATH T18N-R1E Township Line-P LINE DISTANCE T17N-R1E 2641 L1 1035 Date of Drawing: May 16, 2016 ESSIONAL Invoice # <u>260475B</u> Date Staked: <u>May 11, 2016</u> DATUM: NAD-27 NMB was receiver accuracy. LAT: _35'59'57.3" N LONG: 97'11'17.2" W **CERTIFICATE:** information with a GPS oot Horiz./Vert. LAT: 35.999252° N THOMAS L Thomas L. Howell _an Oklahoma Licensed Land HOWELL LONG: 97.188099° W Surveyor and an authorized agent of Topographic Land Surveyors of Oklahoma, do hereby certify to the STATE PLANE COORDINATES (US FEET): 1433 information shown herein. 5.18.1 gathered with ±1 fo ZONE: OK NORTH Thoma I. Na 2240164

Oklahoma Lic. No. <u>1433</u>

364740