

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

API NUMBER: 093 25220 A

Approval Date: 04/16/2019
Expiration Date: 10/16/2020

Horizontal Hole Oil & Gas

Amend reason: CHANGE SHL, BHL, AND WELL #; UPDATE
ORDERS; CHANGE SURFACE OWNER

AMEND PERMIT TO DRILL

WELL LOCATION: Sec: 11 Twp: 21N Rge: 9W

County: MAJOR

SPOT LOCATION: ☐ NE ☐ SE ☐ SW ☐ SW

FEET FROM QUARTER: FROM SOUTH FROM WEST

SECTION LINES: 356 1000

Lease Name: LIVIN LARGE 21N-9W

Well No: 11-1H

Well will be 356 feet from nearest unit or lease boundary.

Operator Name: INTERSTATE EXPLORATIONS LLC

Telephone: 8178503600

OTC/OCC Number: 24089 0

INTERSTATE EXPLORATIONS LLC
PO BOX 984
CISCO, TX 76437-0984

ROBERT D. & MILDRED L. RATZLAFF
47316 HIGHWAY 412
MENO OK 73760

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

Name	Depth	Name	Depth
1 MISSISSIPPIAN	6854	6	
2 WOODFORD	7694	7	
3		8	
4		9	
5		10	

Spacing Orders: 697076

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201901316

Special Orders:

Total Depth: 12861

Ground Elevation: 1298

Surface Casing: 520

Depth to base of Treatable Water-Bearing FM: 470

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: 8000 Average: 5000

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

Within 1 mile of municipal water well? Y

Wellhead Protection Area? Y

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

D. One time land application -- (REQUIRES PERMIT)

PERMIT NO: 19-36470

H. CLOSED SYSTEM=STEEL PITS (REQUIRED - ORDER 287231)

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 15 Twp 21N Rge 9W County MAJOR

Spot Location of End Point: SW SE SE SE

Feet From: SOUTH 1/4 Section Line: 200

Feet From: EAST 1/4 Section Line: 400

Depth of Deviation: 6800

Radius of Turn: 397

Direction: 185

Total Length: 5437

Measured Total Depth: 12861

True Vertical Depth: 7694

End Point Location from Lease,
Unit, or Property Line: 200

Notes:

Category

Description

HYDRAULIC FRACTURING

4/12/2019 - G71 - 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 - 201901316

7/24/2019 - GB1 - (I.O.) 15-21N-9W
X697076 MSSP, WDFD
COMPL. INT. NCT 150' FNL, NCT 150' FSL, NCT 330' FEL
NO OP. NAMED
REC. 3/26/2019 (M. PORTER)

PUBLIC WATER SUPPLY WELL

4/12/2019 - G71 - ENID - 1 PWS/WPA, NE/4 14-21N-9W

SPACING - 697076

7/24/2019 - GB1 - (640)(HOR) 15-21N-9W
EXT 687019 MSSP, WDFD
COMPL. INT. (WDFD) NCT 165' FNL/FSL, NCT 330' FEL/FWL
COMPL. INT (MSSP) NCT 660' FB
(COEXIST SP ORDER #75566 MNNG, MSSP)

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093 25220 LIVIN LARGE 21N-9W 11-1H

