

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

API NUMBER: 047 25161

Approval Date: 07/19/2018

Expiration Date: 01/19/2019

Directional Hole

Disposal

PERMIT TO DRILL

WELL LOCATION: Sec: 18 Twp: 22N Rge: 3W

County: GARFIELD

SPOT LOCATION: ☐ SE ☐ SE ☐ SW ☐ SE

FEET FROM QUARTER: FROM SOUTH FROM WEST

SECTION LINES: 200 1240

Lease Name: SHAFFER

Well No: 2 SWD

Well will be 200 feet from nearest unit or lease boundary.

Operator Name: M M ENERGY INC

Telephone: 4054633355

OTC/OCC Number: 19118 0

M M ENERGY INC
PO BOX 21904
OKLAHOMA CITY, OK 73156-1904

LONNIE & LINDA CINNAMON
24620 E. BRECKENRIDGE RD.
GARBER OK 73738

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

	Name	Depth		Name	Depth
1	ELGIN	2790	6	WILCOX	5620
2	ENDICOTT	3210	7		
3	TONKAWA	3620	8		
4	LAYTON	4220	9		
5	MISSISSIPPI	5120	10		

Spacing Orders: No Spacing

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers:

Special Orders:

Total Depth: 6046

Ground Elevation: 1088

Surface Casing: 310

Depth to base of Treatable Water-Bearing FM: 260

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: No

PIT 1 INFORMATION

Type of Pit System: ON SITE

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: 2

Liner not required for Category: 2

Pit Location is BED AQUIFER

Pit Location Formation: GARBER

Approved Method for disposal of Drilling Fluids:

A. Evaporation/dewater and backfilling of reserve pit.

E. Haul to Commercial pit facility: Sec. 15 Twn. 24N Rng. 7W Cnty. 47 Order No: 623842

DIRECTIONAL HOLE 1

Sec 18 Twp 22N Rge 3W County GARFIELD

Spot Location of End Point: SE SW SE SE

Feet From: SOUTH 1/4 Section Line: 200

Feet From: WEST 1/4 Section Line: 1840

Measured Total Depth: 6046

True Vertical Depth: 6000

End Point Location from Lease,

Unit, or Property Line: 200

Notes:

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.

Category	Description
HYDRAULIC FRACTURING	<p>7/12/2018 - G71 - OCC 165:10-3-10 REQUIRES:</p> <p>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;</p> <p>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: OCCWEB.COM/OG/OGFORMS.HTML; AND,</p> <p>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</p>
SPACING	7/12/2018 - G71 - N/A - DISPOSAL WELL

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.

047 25161 SHAFFER 2 SWD