

API NUMBER: 025 21079 B

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

Approval Date: 08/02/2019
Expiration Date: 02/02/2021

Straight Hole Oil & Gas

Amend reason: ADD SOIL FARMING PERMIT NUMBER

AMEND PERMIT TO DRILL

WELL LOCATION: Section: 04 Township: 5N Range: 4ECM County: CIMARRON

SPOT LOCATION: ☐ SE ☐ NE ☐ NE ☐ SW FEET FROM QUARTER: FROM SOUTH FROM WEST
SECTION LINES: 2104 2629

Lease Name: IRON JACKET Well No: 1-4 Well will be 2104 feet from nearest unit or lease boundary.
Operator Name: GRAND MESA OPERATING COMPANY Telephone: 3162653000 OTC/OCC Number: 24244 0

GRAND MESA OPERATING COMPANY
1700 N WATERFRONT PKWY BLDG 600
WICHITA, KS 67206-5514

COMMISSIONERS OF LAND OFFICE OF STATE OF OKLAHOMA
204 N. ROBINSON, STE 900
OKLAHOMA CITY OK 73102

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

	Name	Code	Depth
1	PERMIAN	459PRMN	1700
2	LANSING	405LNSG	3400
3	MARMATON	404MRMN	4000
4	ATOKA	403ATOK	4400
5	MISSISSIPPIAN	359MSSP	5300

Spacing Orders: No Spacing

Location Exception Orders: No Exceptions

Increased Density Orders: No Density Orders

Pending CD Numbers: No Pending

Special Orders: No Special Orders

Total Depth: 5300

Ground Elevation: 4164

Surface Casing: 1800

Depth to base of Treatable Water-Bearing FM: 580

Deep surface casing has been approved

Under Federal Jurisdiction: No
Fresh Water Supply Well Drilled: No
Surface Water used to Drill: Yes

Approved Method for disposal of Drilling Fluids:

A. Evaporation/dewater and backfilling of reserve pit.
D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 20-37374
H. MIN. SOIL COMPACTED PIT, NOTIFY DISTRICT PRIOR TO TESTING SOIL PIT LINER

PIT 1 INFORMATION

Type of Pit System: OFF SITE

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? N

Wellhead Protection Area? N

Pit is located in a Hydrologically Sensitive Area.

Category of Pit: 1B

Liner required for Category: 1B

Pit Location is: BED AQUIFER

Pit Location Formation: DAKOTA

Sec. 04 Twn. 5N Rng. 4E Cnty. 25

N2 SW SW

Off Site Pit No. 214219

NOTES:

Category	Description
DEEP SURFACE CASING	7/25/2019 - G71 - APPROVED; NOTIFY OCC FIELD INSPECTOR IMMEDIATELY OF ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON ANY CONDUCTOR OR SURFACE CASING

This permit does not address the right of entry or settlement of surface damages.
The duration of this permit is 18 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.

HYDRAULIC FRACTURING	<p>7/24/2019 - 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	8/6/2019 - G56 - FORMATIONS UNSPACED; 240 ACRE LEASE (SW4, N2 SE4)

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 Office of the Conservation Division as to when Surface Casing will be run.