

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

API NUMBER: 025 21079 A

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

Straight Hole Oil & Gas

Amend reason: OCC CORRECT: ADD SPACING, UPDATE
SURFACE CASING

AMEND PERMIT TO DRILL

WELL LOCATION: Sec: 04 Twp: 5N Rge: 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	Depth	Name	Depth
1	PERMIAN	1700	6	
2	LANSING	3400	7	
3	MARMATON	4000	8	
4	ATOKA	4400	9	
5	MISSISSIPPIAN	5300	10	

Spacing Orders: No Spacing

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers:

Special Orders:

Total Depth: 5300 Ground Elevation: 4164 Surface Casing: 1800 Depth to base of Treatable Water-Bearing FM: 580

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: OFF SITE

A. Evaporation/dewater and backfilling of reserve pit.

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

H. MIN. SOIL COMPACTED PIT, NOTIFY DISTRICT PRIOR TO TESTING SOIL PIT LINER

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

00-05n-04ecm-2018
CRD NO.00-05n-04ecm
DMT NO.**PRO-STAKE**

LLC

Construction Site Staking

P.O. Box 2324 Garden City, Kansas 67846
Office/Fax: (620) 276-6159 – Cell: (620) 272-1499
burt@prostakellc.com14229
INVOICE NO.**Grand Mesa Operating Company**
OPERATOR**Cimarron County, OK**
COUNTY**Iron Jacket #1-4 restake**
LEASE NAME**2104' FSL - 2629' FWL**
LOCATION SPOT**4163.9'**
GR ELEVATION**36.927810583**
NAD 83 LAT**102.632444161**
NAD 83 LONG04 05n 04ecm
Sec. Twp. Rng.SCALE: 1" = 1000'
DATE STAKED: April 26th, 2019
MEASURED BY: Burt W.
DRAWN BY: Pierce R.
AUTHORIZED BY: Garett D.
DATE REVISED:

LEGEND

- irr. well
- water hydrant
- tank battery
- staked loc.
- prod. well / aband. well
- house
- building
- gas line
- water line
- transmission powerline
- 3 phase powerline
- single phase powerline
- fence
- gravel / sand rd.
- gravel trail / lease rd.
- dirt rd.
- dirt trail / lease rd.
- Hwy / blacktop rd.

DIRECTIONS: From Boise City, OK at the intersection of OK-3/Cimarron Ave. & Hwy. 64/Main St. – Now go approx. 4.4 miles North on OK-3/Cimarron Ave. – Now go 5 miles West on E0150 Rd. – Now go approx. 11 miles primarily North on N0230 Rd. – Now **begin following ingress flagging** and go approx. 0.6 miles NE on trail to electric gate – Now continue on trail and go approx. 1.3 miles E-SE then NE along trail to gate – Now continue on trail and go approx. 0.6 miles NE into staked location

Final ingress must be verified with landowner or operator.

*This drawing does not constitute a monumented survey or a land survey plat.
This drawing is for construction purposes only.*

LANDOWNER/CONTACT: N/A