

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

API NUMBER: 071 24894

Approval Date: 08/23/2018

Expiration Date: 02/23/2019

Straight Hole

Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 26 Twp: 29N Rge: 1E

County: KAY

SPOT LOCATION: ☐ NW ☐ SE ☐ SW ☐ SE

FEET FROM QUARTER: FROM SOUTH FROM WEST

SECTION LINES: 495 798

Lease Name: PATTEN

Well No: 4

Well will be 495 feet from nearest unit or lease boundary.

Operator Name: DEMCO OIL & GAS COMPANY

Telephone: 5803634223

OTC/OCC Number: 7223 0

DEMCO OIL & GAS COMPANY

1335 S 6TH ST

BLACKWELL, OK 74631-4203

HAROLD PATTEN TR., GAY DOUGLAS

P.O. BOX 39

TONKAWA OK 75653

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

	Name	Depth		Name	Depth
1	HOTSON	752	6	LAYTON	2887
2	NEVA	827	7	CLEVELAND	3199
3	NEWKIRK	1558	8	OSWEGO	3269
4	HOOVER	2063	9	MISSISSIPPI	3631
5	TONKAWA	2435	10	WILCOX	3918

Spacing Orders: No Spacing

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers:

Special Orders:

Total Depth: 4050

Ground Elevation: 1195

Surface Casing: 220

Depth to base of Treatable Water-Bearing FM: 170

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: No

PIT 1 INFORMATION

Approved Method for disposal of Drilling Fluids:

Type of Pit System: ON SITE

A. Evaporation/dewater and backfilling of reserve pit.

Type of Mud System: WATER BASED

Chlorides Max: 2500 Average: 2000

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: WELLINGTON

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>8/10/2018 - 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	8/23/2018 - G75 - FORMATIONS UNSPACED; 160-ACRE LEASE (SE4)