

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

API NUMBER: 109 22453 A

Approval Date: 12/15/2017
Expiration Date: 06/15/2018

Directional Hole Oil & Gas

Amend reason: CHANGE DISPOSAL METHOD

AMEND PERMIT TO DRILL

WELL LOCATION: Sec: 28 Twp: 13N Rge: 3W

County: OKLAHOMA

SPOT LOCATION: ☐ NE ☐ SE ☐ NW ☐ SW

FEET FROM QUARTER: FROM SOUTH FROM WEST

SECTION LINES: 1979 1106

Lease Name: BRITTON PARK

Well No: 1

Well will be 1106 feet from nearest unit or lease boundary.

Operator Name: GLB EXPLORATION INC

Telephone: 4057870049

OTC/OCC Number: 18634 0

GLB EXPLORATION INC
7716 MELROSE LN
OKLAHOMA CITY, OK 73127-6002

MELROSE LANE PROPERTIES LLC
7716 MELROSE LANE
OKLAHOMA CITY OK 73147

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

	Name	Depth		Name	Depth
1	PENN UP	6200	6	SIMPSON DOLOMITE	6920
2	PENN LOW	6300	7	2ND WILCOX	7050
3	HUNTON	6450	8	MCLISH UP	7400
4	VIOLA	6575	9	OIL CREEK	7600
5	SIMPSON DENSE	6870	10	ARBUCKLE	7650

Spacing Orders: 671165

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers:

Special Orders:

Total Depth: 8100

Ground Elevation: 1198

Surface Casing: 1110

Depth to base of Treatable Water-Bearing FM: 1060

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: No

PIT 1 INFORMATION

Type of Pit System: CLOSED Closed System Means Steel Pits

Type of Mud System: WATER BASED

Chlorides Max: 5000 Average: 2500

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

Approved Method for disposal of Drilling Fluids:

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

PERMIT NO: 18-33946

H. CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST

DIRECTIONAL HOLE 1

Sec 29 Twp 13N Rge 3W County OKLAHOMA

Spot Location of End Point: S2 SE NE NE

Feet From: SOUTH 1/4 Section Line: 1440

Feet From: WEST 1/4 Section Line: 2310

Measured Total Depth: 8100

True Vertical Depth: 7650

End Point Location from Lease,

Unit, or Property Line: 1200

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
BOTTOM-HOLE INFORMATION & TOTAL DEPTH	12/5/2017 - G75 - PER OPERATOR
HYDRAULIC FRACTURING	<p>11/6/2017 - 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: OCCEWEB.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>
POINT OF ENTRY	12/6/2017 - G75 - GREATER THAN 660' FROM BOUNDARIES OF (240)(IRR UNIT) W2 NW4 28 & NE4 29-13N-3W PER OPERATOR
PUBLIC WATER SUPPLY WELL	11/6/2017 - G71 - NICHOLS HILLS, 1 PWS/WPA, SW4 33-13N-3W
SPACING - 671165	<p>12/15/2017 - G75 - (240)(IRR UNIT) W2 NW4 28 & NE4 29-13N-3W NCT 660' FB VAC 164012 PSLVU, PSLVL, VIOL, SMPD, SMPD, WLCX2, MCLSU, OLCK, ABCK, OTHERS NE4 29-13N-3W</p> <p>VAC 170720 HNTN NE4 29-13N-3W</p> <p>VAC 343809/347826 HNTN, VIOL, SMPD, SMPD, WLCX2, MCLSU, OLCK, ABCK, OTHERS W2 NW4 28-13N-3W</p> <p>VAC 356364 OSWG, PRUE, SKNR, OTHERS W2 NW4 28-13N-3W</p> <p>EST PSLVU, PSLVL, HNTN, VIOL, SMPD, SMPD, WLCX2, MCLSU, OLCK, ABCK, OTHERS</p>
WELL TYPE	12/5/2017 - G75 - CHANGE TO DIRECTIONAL WELL PER OPERATOR