

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

API NUMBER: 047 25198 A

Approval Date: 04/12/2019
Expiration Date: 10/12/2020

Horizontal Hole Oil & Gas

Amend reason: UPDATE SHL & ORDERS

AMEND PERMIT TO DRILL

WELL LOCATION: Sec: 16 Twp: 23N Rge: 5W

County: GARFIELD

SPOT LOCATION: ☐ NW ☐ NW ☐ NW ☐ NW

FEET FROM QUARTER: FROM NORTH FROM WEST

SECTION LINES: 220 279

Lease Name: LORENE

Well No: 2-9H

Well will be 220 feet from nearest unit or lease boundary.

Operator Name: SK PLYMOUTH LLC

Telephone: 9185991800

OTC/OCC Number: 23485 0

SK PLYMOUTH LLC
11700 KATY FWY STE 900
HOUSTON, TX 77079-1222

THEODORE BENTZ & DEANNE BENTZ
334 E DON KROLL STREET
ENID OK 73701

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

Name	Depth	Name	Depth
1	MISSISSIPPIAN	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 617375

Location Exception Orders: 699102

Increased Density Orders: 696866

Pending CD Numbers:

Special Orders:

Total Depth: 11005

Ground Elevation: 1133

Surface Casing: 520

Depth to base of Treatable Water-Bearing FM: 270

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: CLOSED Closed System Means Steel Pits

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 not located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C

Pit Location is NON HSA

Pit Location Formation: FAIRMONT

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 19-36462
H. CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST

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.

HORIZONTAL HOLE 1

Sec 09 Twp 23N Rge 5W County GARFIELD

Spot Location of End Point: NE NW NW NW

Feet From: NORTH 1/4 Section Line: 165

Feet From: WEST 1/4 Section Line: 380

Depth of Deviation: 5460

Radius of Turn: 382

Direction: 1

Total Length: 4945

Measured Total Depth: 11005

True Vertical Depth: 6060

End Point Location from Lease,
Unit, or Property Line: 165

Notes:

Category

Description

HYDRAULIC FRACTURING

4/2/2019 - 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

INCREASED DENSITY - 696866 (201901129)

1/13/2020 - G56 - 9-23N-5W
X617375 MSSP
1 WELL
NO OP NAMED
5/30/2019

LOCATION EXCEPTION - 699102
(201901130)

1/13/2019 - G56 - (I.O.) 9-23N-5W
X617375 MSSP
COMPL INT NCT 165' FNL, NCT 165' FSL, NCT 330' FWL
SK PLYMOUTH, LLC
7/12/2019

SPACING - 617375

1/13/2020 - G56 - (640)(HOR) 9-23N-5W
EST MSSP, OTHER
COMPL INT NLT 660' FB
(COEXIST WITH SE4 SP # 145398 MSSP)

Operator: SK PLYMOUTH

Lease Name and No.: LORENE 2-9H

Footage: 220' FNL - 279' FWL Gr. Elevation: 1133'

Section: 16 Township: 23N Range: 5W I.M.

County: Garfield State of Oklahoma

Terrain at Loc.: Location fell in very hilly terrain.

047-25198A



All bearings shown
are grid bearings.



1" = 1320'

GPS DATUM

NAD 83

NAD 27

OK NORTH ZONE

Surface Hole Loc.:
Lat: 36°28'37.02"N
Lon: 97°44'46.53"W
Lat: 36.47695091
Lon: -97.74625801
X: 2043102
Y: 537741

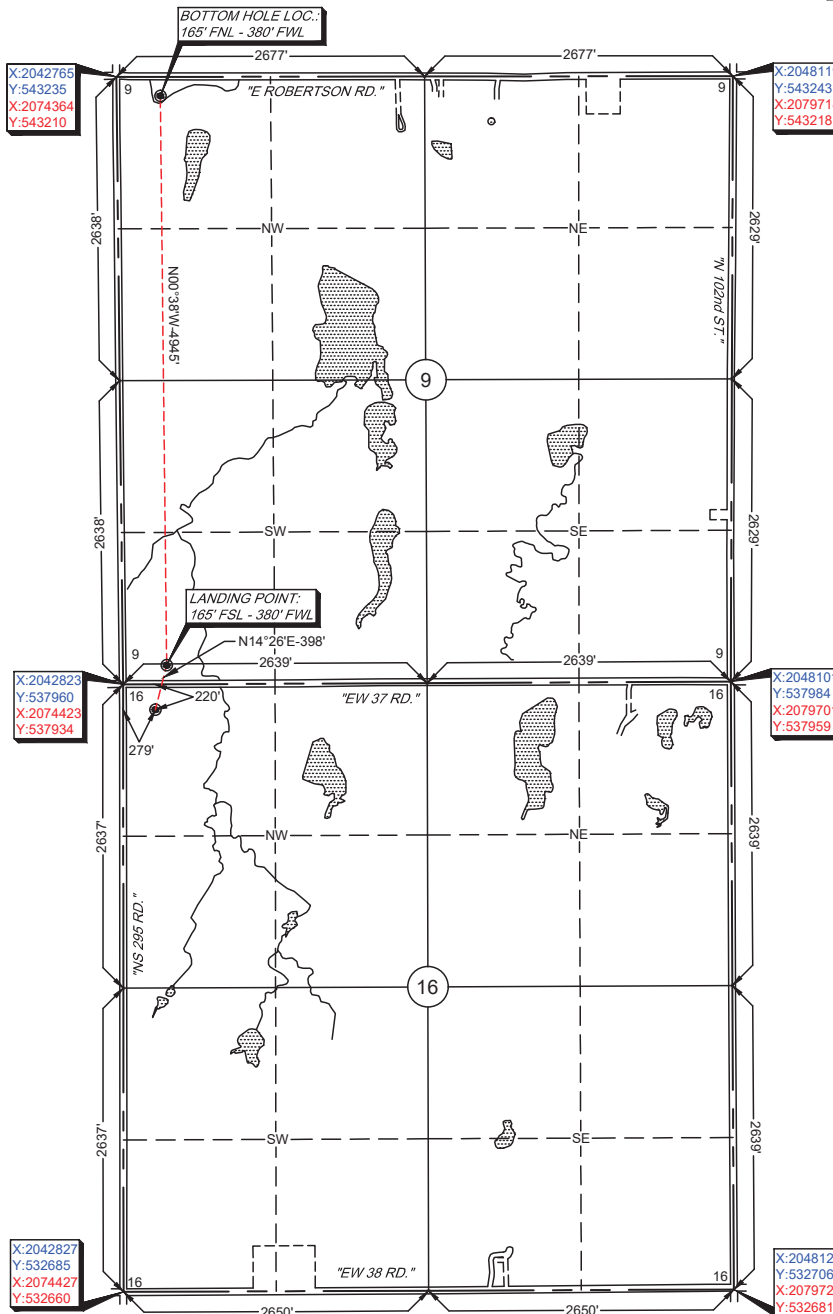
Surface Hole Loc.:
Lat: 36°28'36.91"N
Lon: 97°44'45.33"W
Lat: 36.47691858
Lon: -97.74592575
X: 2074702
Y: 537715

Landing Point:
Lat: 36°28'40.84"N
Lon: 97°44'45.30"W
Lat: 36.47801009
Lon: -97.74591682
X: 2043202
Y: 538127

Landing Point:
Lat: 36°28'40.72"N
Lon: 97°44'44.10"W
Lat: 36.47797778
Lon: -97.74558456
X: 2074801
Y: 538101

Bottom Hole Loc.:
Lat: 36°29'29.73"N
Lon: 97°44'45.82"W
Lat: 36.49159153
Lon: -97.74606071
X: 2043146
Y: 543071

Bottom Hole Loc.:
Lat: 36°29'29.61"N
Lon: 97°44'44.62"W
Lat: 36.49155942
Lon: -97.74572837
X: 2074746
Y: 543045



-Please note that this location was staked on the ground under the supervision of a Licensed Professional Land Surveyor, but the accuracy of this survey is not guaranteed. Please contact Arkoma Surveying and Mapping promptly if any inconsistency is determined. GPS data is observed from RTK - GPS.
-NOTE: X and Y data shown hereon for Section Corners may NOT have been surveyed on-the-ground, and further, does NOT represent a true Boundary Survey.
-Quarter Section distances may be assumed from a Government Survey Plat or assumed at a proportionate distance from opposing section corners, or occupation thereof, and may not have been measured on-the-ground, and further, does not represent a true boundary survey.

Survey and plat by:

Arkoma Surveying and Mapping, PLLC

P.O. Box 238 Wilburton, OK 74578

Ph. 918-465-5711 Fax 918-465-5030

Certificate of Authorization No. 5348

Expires June 30, 2020

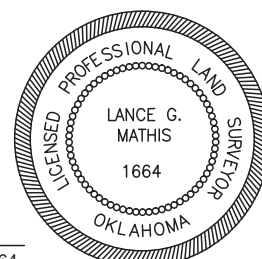
Certification:

This is to certify that this Well Location Plat represents the results of a survey made on the ground performed under the supervision of the undersigned.

Lance G. Mathis
LANCE G. MATHIS

04/09/19

OK LPLS 1664



Invoice #8560-A

Date Staked: 04/03/19 By: D.K.

Date Drawn: 04/08/19 By: C.K.