

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

API NUMBER: 049 25120

Approval Date: 04/11/2017  
Expiration Date: 10/11/2017

Directional Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 05 Twp: 3N Rge: 2W County: GARVIN  
SPOT LOCATION:     FEET FROM QUARTER: FROM SOUTH FROM WEST  
SECTION LINES: 852 330

Lease Name: MARY Well No: 1-5 Well will be 330 feet from nearest unit or lease boundary.  
Operator Name: RANKEN ENERGY CORPORATION Telephone: 4053402363 OTC/OCC Number: 17205 0

RANKEN ENERGY CORPORATION  
457 W 18TH ST  
EDMOND, OK 73013-3663

JOHN DAVID HOPE LIVING TRUST  
37050 HWY. 19  
PAULS VALLEY OK 73075

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

Name	Depth	Name	Depth
1 PENN (LS GIBSON & HART)	5848	6 BROMIDE MASSIVE	6694
2 DEESE 3 (GIBSON)	5975	7 MCLISH	7246
3 DEESE 4 (HART)	6100	8 OIL CREEK	7517
4 VIOLA	6186	9	
5 1ST BROMIDE	6551	10	

Spacing Orders: 20534  
24555  
68319  
21316  
69728  
63421

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers:

Special Orders:

Total Depth: 7811 Ground Elevation: 1005 **Surface Casing: 300** Depth to base of Treatable Water-Bearing FM: 200

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

PIT 1 INFORMATION

Type of Pit System: ON SITE  
Type of Mud System: WATER BASED  
Chlorides Max: 5000 Average: 3000  
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: 2**  
**Liner not required for Category: 2**  
Pit Location is NON HSA  
Pit Location Formation: FAIRMONT

Approved Method for disposal of Drilling Fluids:

- A. Evaporation/dewater and backfilling of reserve pit.
- D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 17-32297

DIRECTIONAL HOLE 1

Sec 05 Twp 3N Rge 2W County GARVIN  
Spot Location of End Point: NW NW SW NE  
Feet From: SOUTH 1/4 Section Line: 1029  
Feet From: EAST 1/4 Section Line: 2312  
Measured Total Depth: 7811  
True Vertical Depth: 7800  
End Point Location from Lease,  
Unit, or Property Line: 291

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.

Notes:

Category	Description
HYDRAULIC FRACTURING	4/6/2017 - G71 - OCC 165:10-3-10 REQUIRES: 1) THE CHEMICAL DISCLOSURE OF HYDRAULIC FRACTURING INGREDIENTS FOR ALL WELLS BE REPORTED TO FRACFOCUS USING THE FOLLOWING LINK <a href="http://fracfocus.org/">HTTP://FRACFOCUS.ORG/</a> WITH NOTICE GIVEN 48 HOURS IN ADVANCE OF FRACTURING TO THE LOCAL OCC DISTRICT OFFICE; AND, 2) PRIOR TO COMMENCEMENT OF FRACTURING OPERATIONS FOR HORIZONTAL WELLS, NOTICE ALSO GIVEN FIVE BUSINESS DAYS IN ADVANCE TO OFFSET OPERATORS WITH WELLS COMPLETED IN THE SAME COMMON SOURCE OF SUPPLY WITHIN 1/2 MILE
SPACING	4/10/2017 - G64 - VIOLA AND MCCLISH UNSPACED; 40-ACRE LEASE (SW4 NE4) PER OPERATOR
SPACING - 20534	4/10/2017 - G64 - (40) 5-3N-2W EXT 18679/VAR PSLV (MOD BY 24555 TO PNLGH)
SPACING - 21316	4/10/2017 - G64 - (40) 5-3N-2W EST BRMD (MOD BY 63421 TO BRMD1 & BRMD2)(VAC BRMD2 BY 69728)
SPACING - 24555	4/10/2017 - G64 - (40) ALL-3N-2W VAC OTHER EXT OTHER MOD/AMD/EXT ALL ORDERS DS3GB, DS4HT
SPACING - 63421	4/10/2017 - G64 - (40) N2 NE4 & SW4 NE4 5-3N-2W MOD/AMD 21316 CHANGING BRMD TO BRMD1, BRMD2 (VAC BRMD2 BY 69728)
SPACING - 68319	4/10/2017 - G64 - (UNIT) S2 NE4 5-3N-2W EST NORTH ANTIOCH OIL CREEK UNIT FOR OLCK 3-1-1968
SPACING - 69728	4/10/2017 - G64 - (40) S2 N2 5-3N-2W VAC OTHER VAC 63421 BRMD2 EST BRMMS
SURFACE CASING	4/6/2017 - G71 - MIN. 300' PER ORDER 24997

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API: 049 25120

SECTION 5, T 3 N - R 2 W, I.M.,  
GARVIN COUNTY, OKLAHOMA

X: 2168082.5  
Y: 522627.4

X: 2173371.9  
Y: 522650.3

CO. RD. E1550

GPS  
DATUM: NAD-27  
LAT: N34°45'47.73"  
LONG: W97°25'49.53"  
SPC  
ZONE: OK SOUTH  
X: 2171072'  
Y: 520850'

X: (2170727.2)  
Y: (522638.8)

1791'

471'

330'

2312'

852'

5

X: 2173389.6  
Y: 520007.5

X: (2168105.3)  
Y: (519983.2)

HOPE 1-5

X: 2170768.1  
Y: 517349.9









X: 2168128.0  
Y: 517339.0

CO. RD. E1560

X: 2173407.3  
Y: 517367.8

Operator: RANKEN ENERGY CORPORATION Date Staked: 10/27/2016  
Lease Name: MARY Well No.: 1-5 Elevation: 1005'  
Topography and Vegetation: PASTURE  
Good Drill Site? YES Reference or Alt. Location Stakes Set: NONE  
Best Accessibility to Location: FROM COUNTY ROAD NORTH OF LOCATION  
Distance and Direction from Hwy. Jct. or town: FROM MAYSVILLE, GO SOUTH ON ST HWY 74, 3.5 MILES, TURN WEST ON CO. RD. E1550 FOR 1.4 MILES, TURN SOUTH INTO LOCATION

  
FRED ANTHONY SELENSKY  
OKLAHOMA L.P.L.S. NO.: 1860  
DATE: 3-23-2017

LEGEND  
SURFACE LOCATION   
EXISTING WELL  BOTTOM HOLE/LANDING POINT   
PROPOSED DRILL PATH   
EXISTING PIPELINE   
ELECTRIC LINE   
OVERHEAD POWER   
FENCE 



RANKEN ENERGY CORPORATION  
  
Gateway Services Group, LLC  
P.O. BOX 960  
MEEKER, OK 74855  
OFF. (405) 273-0954  
FAX (405) 273-0580  
C.A. NO. 4091 (LS)  
EXP. DATE 6-30-2018

NOTE:  
This is a plat of a proposed well location and does not represent a true boundary survey. The information shown hereon shall not be relied upon for the location or establishment of land boundary lines. All of the positions shown hereon have not been verified as being actual Section, Quarter or Property corners. Positions shown in (Parentheses) are based upon local occupation and improvements or calculated per proportional measurement and/or G.L.O. record distances. Distances shown in (Parenthesis) are based upon the Quarter Section being 2640 feet, those show in [Brackets] are G.L.O. distances and have not been measured. Review this plat and notify Gateway Services Group, LLC immediately of any possible discrepancy.

EXHIBIT "A" PRELIMINARY  
MARY #1-5  
SECTION 5, T 3 N - R 2 W, I.M.,  
GARVIN COUNTY, OKLAHOMA

DRAWN BY: CLC	DATE: 10/27/16	CHK'D: RLG	
GATEWAY NO.: 16-0664-002R5	SCALE: 1"=1000'		
PAD PN#:	WELL PN#:		
REV.	DWN.	DESCRIPTION	DATE
5	CLC	NAME CHANGE	03/23/17
2	CLC	MOVED WELL HEAD	11/23/16
3	CLC	ADDED SHEETS	03/22/17
4	CLC	ADDITIONS	03/22/17