

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

API NUMBER: 047 25163

Approval Date: 07/30/2018

Expiration Date: 01/30/2019

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 33 Twp: 20N Rge: 6W

County: GARFIELD

SPOT LOCATION: ☐ NE ☐ NW ☐ NW ☐ NW

FEET FROM QUARTER: FROM NORTH FROM WEST

SECTION LINES: 288 470

Lease Name: BETTY

Well No: 28-M1BH

Well will be 288 feet from nearest unit or lease boundary.

Operator Name: SK NEMAHA LLC

Telephone: 7133955141

OTC/OCC Number: 24221 0

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

ROBERT J. FUXA  
1919 ARAPAHO DRIVE  
ENID OK 73703

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

	Name	Depth	Name	Depth
1	MISSISSIPPIAN	6792	6	
2			7	
3			8	
4			9	
5			10	

Spacing Orders: No Spacing

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201704378  
201704410

Special Orders:

Total Depth: 12200

Ground Elevation: 1117

**Surface Casing: 500**

Depth to base of Treatable Water-Bearing FM: 390

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 located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C

Pit Location is BED AQUIFER

Pit Location Formation: salt plains

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 18-34912  
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 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.

HORIZONTAL HOLE 1

Sec 28 Twp 20N Rge 6W 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: 470

Depth of Deviation: 5723

Radius of Turn: 1192

Direction: 359

Total Length: 4947

Measured Total Depth: 12543

True Vertical Depth: 7255

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

Notes:

Category

Description

HYDRAULIC FRACTURING

7/13/2018 - 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: [OCCWEB.COM/OG/OGFORMS.HTML](http://OCCWEB.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](http://FRACFOCUS.ORG)

PENDING CD - 201704378

7/25/2018 - G58 - (I.O.) 28-20N-6W  
X201704376\*\* MSSP  
SHL NCT 150' FNL, NCT 240' FWL\*\*  
COMPL. INT. NCT 165' FSL, NCT 165' FNL, NCT 660' FEL  
NO OP. NAMED  
REC 6/29/2018 (M. PORTER)

\*\*201704376 WAS DISMISSED CORRECT SP. CD IS 201704410

\*\*SHL HAS CHANGED

BOT CORRECTED IN THE ORDER PER ATTORNEY FOR OP.

PENDING CD - 201704410

7/25/2018 - G58 - (640)(HOR)  
VAC 46581/47301 MSSLM N2 28-20N-6W  
VAC 175659 MSSLM  
EXT 629250 MSSP  
COMPL. INT. NLT 660' FB  
(COEXIST SP. ORDER 46581/47301 MSSLM S2 28-20N-6W)  
REC 6/29/2018 (M. PORTER)



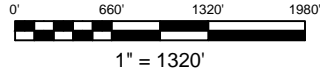
# Well Location Plat

S.H.L. Sec. 33-20N-6W I.M.  
B.H.L. Sec. 28-20N-6W I.M.

Operator: SK NEMAHA  
Lease Name and No.: BETTY 28 (SKID MOVE)  
Footage: 288' FNL - 450' FWL Gr. Elevation: 1117' 047-25163  
Section: 33 Township: 20N Range: 6W I.M.  
County: Garfield State of Oklahoma  
Terrain at Loc.: Location fell on existing pad.



All bearings shown  
are grid bearings.



GPS DATUM  
NAD 83  
NAD 27  
OK NORTH ZONE

Surface Hole Loc.:  
Lat: 36°10'23.41"N  
Lon: 97°51'08.02"W  
X: 2012115  
Y: 427088

Surface Hole Loc.:  
Lat: 36°10'23.27"N  
Lon: 97°51'06.82"W  
X: 2043714  
Y: 427063

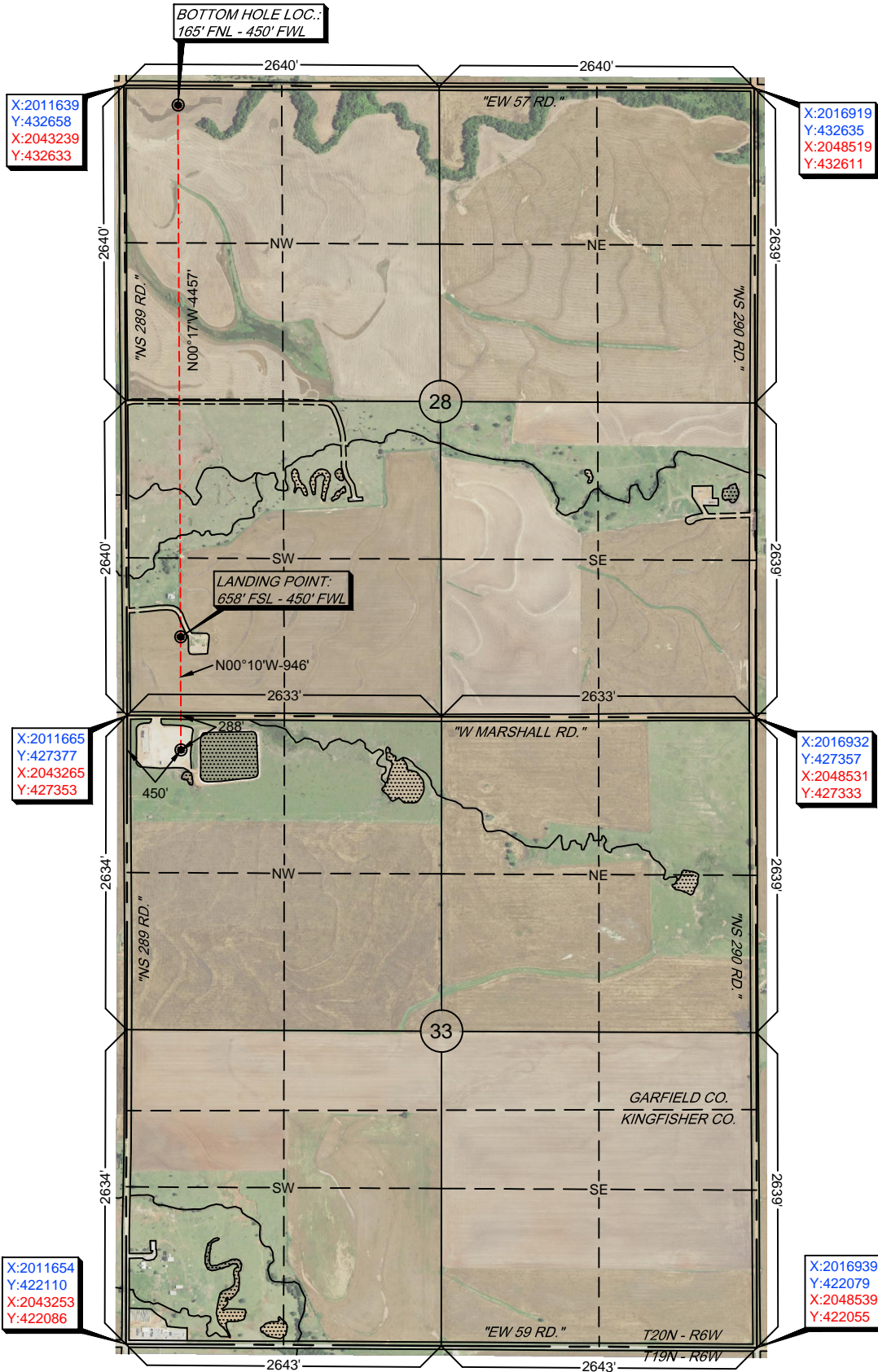
Landing Point:  
Lat: 36°10'32.76"N  
Lon: 97°51'08.03"W  
X: 2012112  
Y: 428034

Landing Point:  
Lat: 36°10'32.63"N  
Lon: 97°51'06.83"W  
X: 2043712  
Y: 428009

Bottom Hole Loc.:  
Lat: 36°11'16.84"N  
Lon: 97°51'08.22"W  
X: 2012090  
Y: 432491

Bottom Hole Loc.:  
Lat: 36°11'16.71"N  
Lon: 97°51'07.02"W  
X: 2043689  
Y: 432466

-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

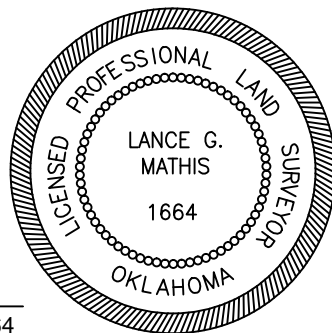
Invoice #7959-D  
Date Staked: 06/29/18 By: D.A.  
Date Drawn: 07/03/18 By: J.K.  
Revised SHL: 07/24/18 By: J.K.  
Added LP: 07/25/18 By: J.K.

## 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

07/25/18  
OK LPLS 1664





# Well Location Plat

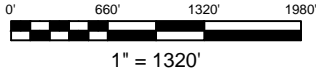
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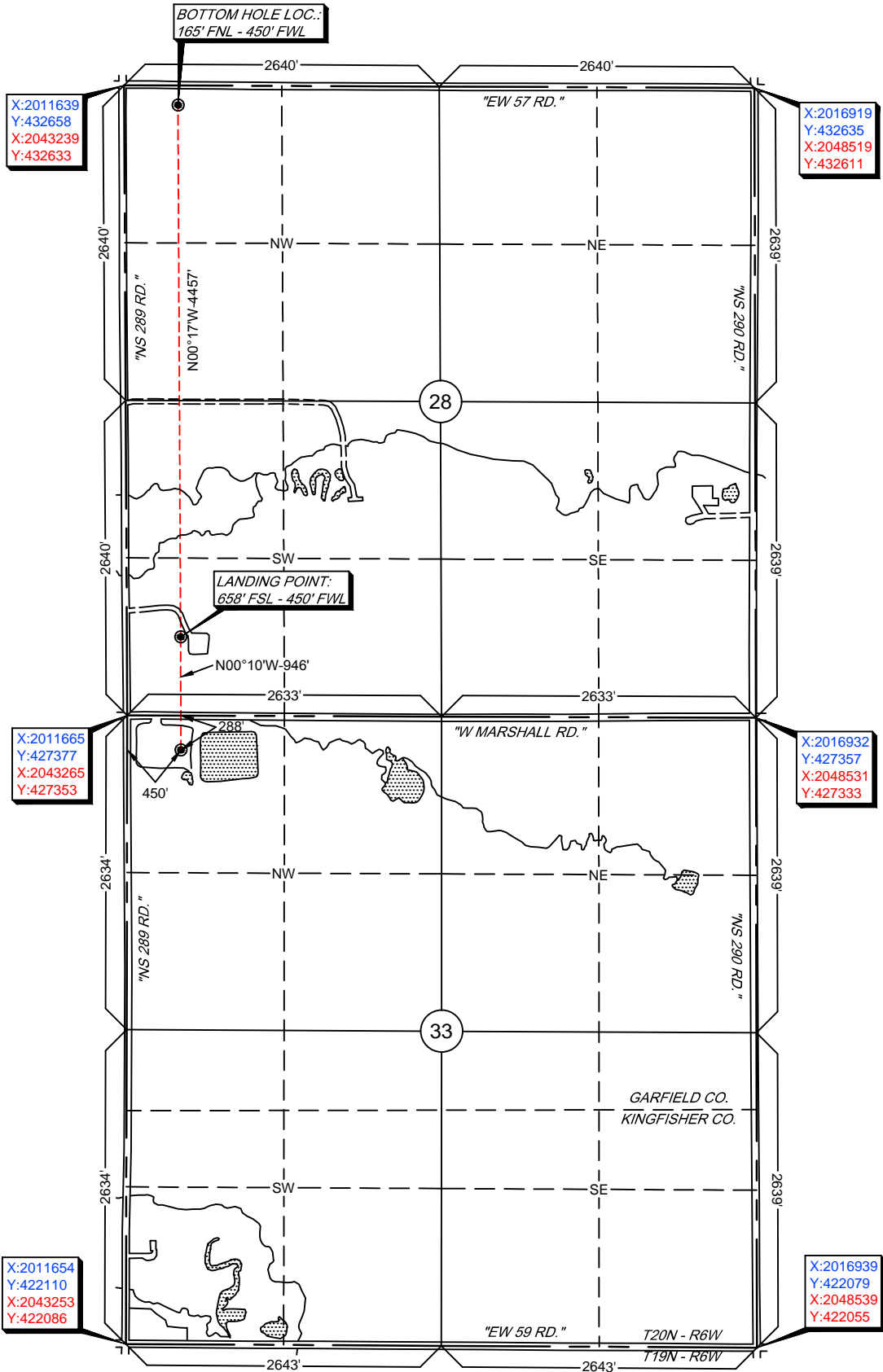
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Invoice #7959-D  
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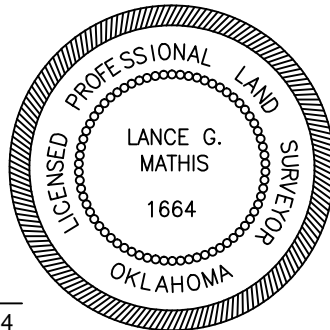
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*Lance G. Mathis*  
LANCE G. MATHIS

07/25/18

OK LPLS 1664







# Topographic Vicinity Map

Operator: SK NEMAHA

Lease Name and No.: BETTY 28 (SKID MOVE)

Surface Hole Location: 288' FNL - 450' FWL

Sec. 33 Twp. 20N Rng. 6W I.M.

Landing Point: 658' FSL - 450' FWL

Bottom Hole Location: 165' FNL - 450' FWL

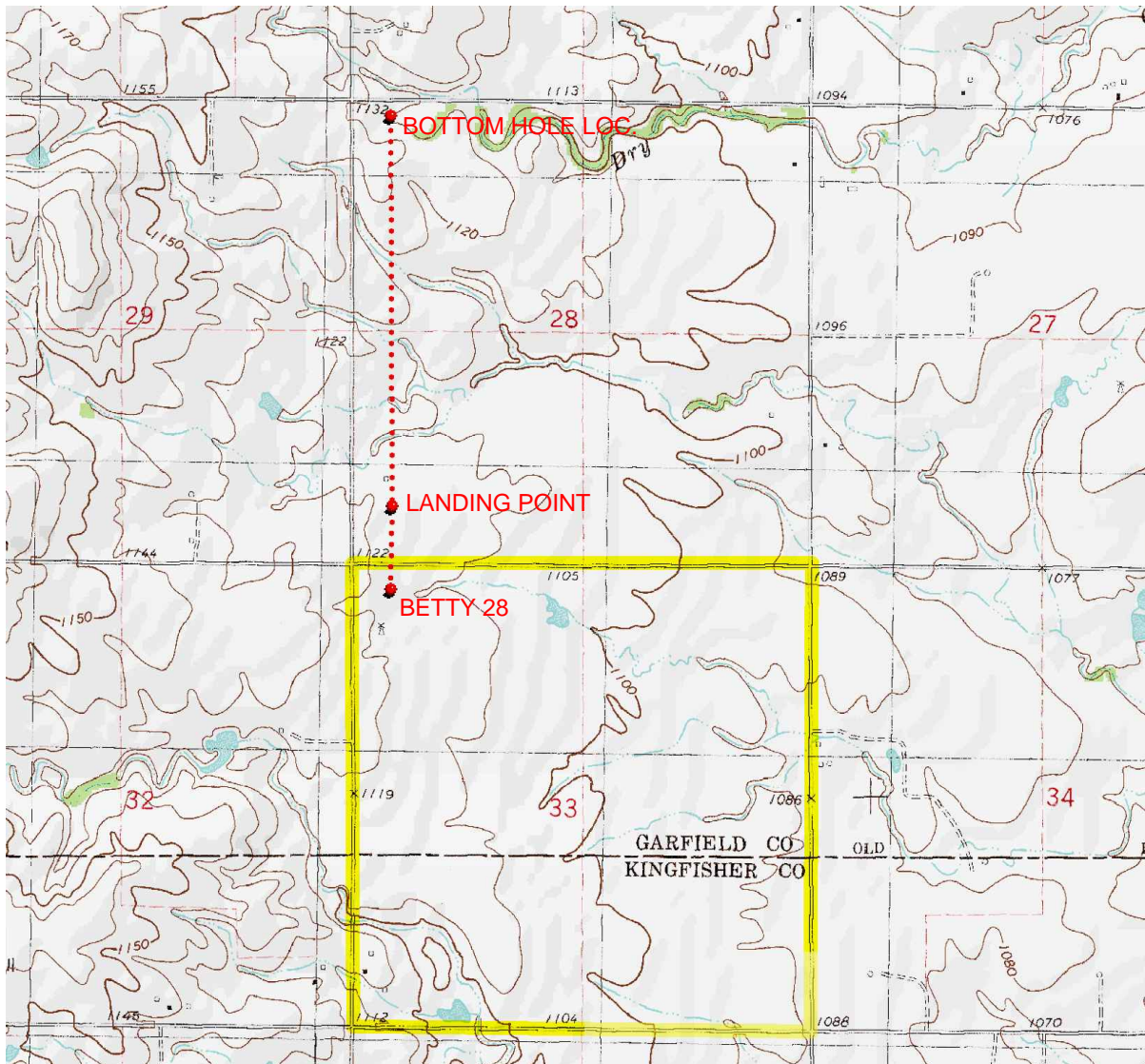
Sec. 28 Twp. 20N Rng. 6W I.M.

County: Garfield State of Oklahoma



Scale 1" = 2000'  
Contour Interval: 10'

Ground Elevation at Surface Hole Location: 1117'



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Expires June 30, 2020

Date Staked: 06/29/18

The purpose of this map is to verify the location and elevation as staked on the ground and to show the surrounding Topographic features. The footage shown hereon is only as SCALED onto a U.S.G.S. Topographic Map.

Please note that this location was staked carefully 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.

# County Highway Vicinity Map

Job #: 7959-D

Operator: SK NEMAHA

Lease Name and No.: BETTY 28 (SKID MOVE)

Accessibility: From the South.

Directions: From the junction of State HWY 51 & US HWY 81 in the town of Hennessey, OK, go 4.1 miles North on US HWY 81, then go 2.1 miles East on "W Marshall Rd" to the Northwest Quarter of Section 33-20N-6W on the South side of the road.



1 inch = 0.75 mile

provided by,  
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