

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

API NUMBER: 017 25472

Approval Date: 06/04/2019

Expiration Date: 12/04/2020

Straight Hole

Disposal

PERMIT TO DRILL

WELL LOCATION: Sec: 16 Twp: 13N Rge: 7W

County: CANADIAN

SPOT LOCATION: ☐ SW ☐ SW ☐ SW ☐ NE

FEET FROM QUARTER: FROM NORTH FROM EAST

SECTION LINES: 2396 2396

Lease Name: SIEGRIST SWD

Well No: 1-16

Well will be 2396 feet from nearest unit or lease boundary.

Operator Name: S & S STAR OPERATING LLC

Telephone: 4055296577

OTC/OCC Number: 23996 0

S & S STAR OPERATING LLC
PO BOX 249
OKLAHOMA CITY, OK 73101-0249

DAVID SIEGRIST
1107 S HOFF
EL RENO OK 73036

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

	Name	Depth	Name	Depth
1	SHAWNEE	4200	6	
2	DOUGLAS	5800	7	
3			8	
4			9	
5			10	

Spacing Orders: No Spacing

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers:

Special Orders:

Total Depth: 7500

Ground Elevation: 1376

Surface Casing: 330

Depth to base of Treatable Water-Bearing FM: 280

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: No

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 located in a Hydrologically Sensitive Area.

Category of Pit: 1B

Liner required for Category: 1B

Pit Location is AP/TE DEPOSIT

Pit Location Formation: TERRACE

Approved Method for disposal of Drilling Fluids:

A. Evaporation/dewater and backfilling of reserve pit.

H. MIN. SOIL COMPACTED PIT, NOTIFY DISTRICT PRIOR TO TESTING SOIL PIT LINER

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>5/22/2019 - 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>
SHL	6/4/2019 - GB1 - SHL 2396' FNL, 2396' FEL PER STAKING PLAT PROVIDED BY OPERATOR
SPACING	5/22/2019 - G71 - N/A - DISPOSAL WELL



Well Location Plat

Sec. 16-13N-7W I.M.

Operator: BISON OILFIELD SERVICES, LLC

Lease Name and No.: SIEGRIST SWD 1-16

Footage: 2396' FNL - 2396' FEL Gr. Elevation: 1376'

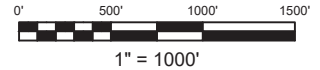
Section: 16 Township: 13N Range: 7W I.M.

County: Canadian State of Oklahoma

Terrain at Loc.: Location fell in a pasture, East of a staked pipeline, and North and East of an existing fence.

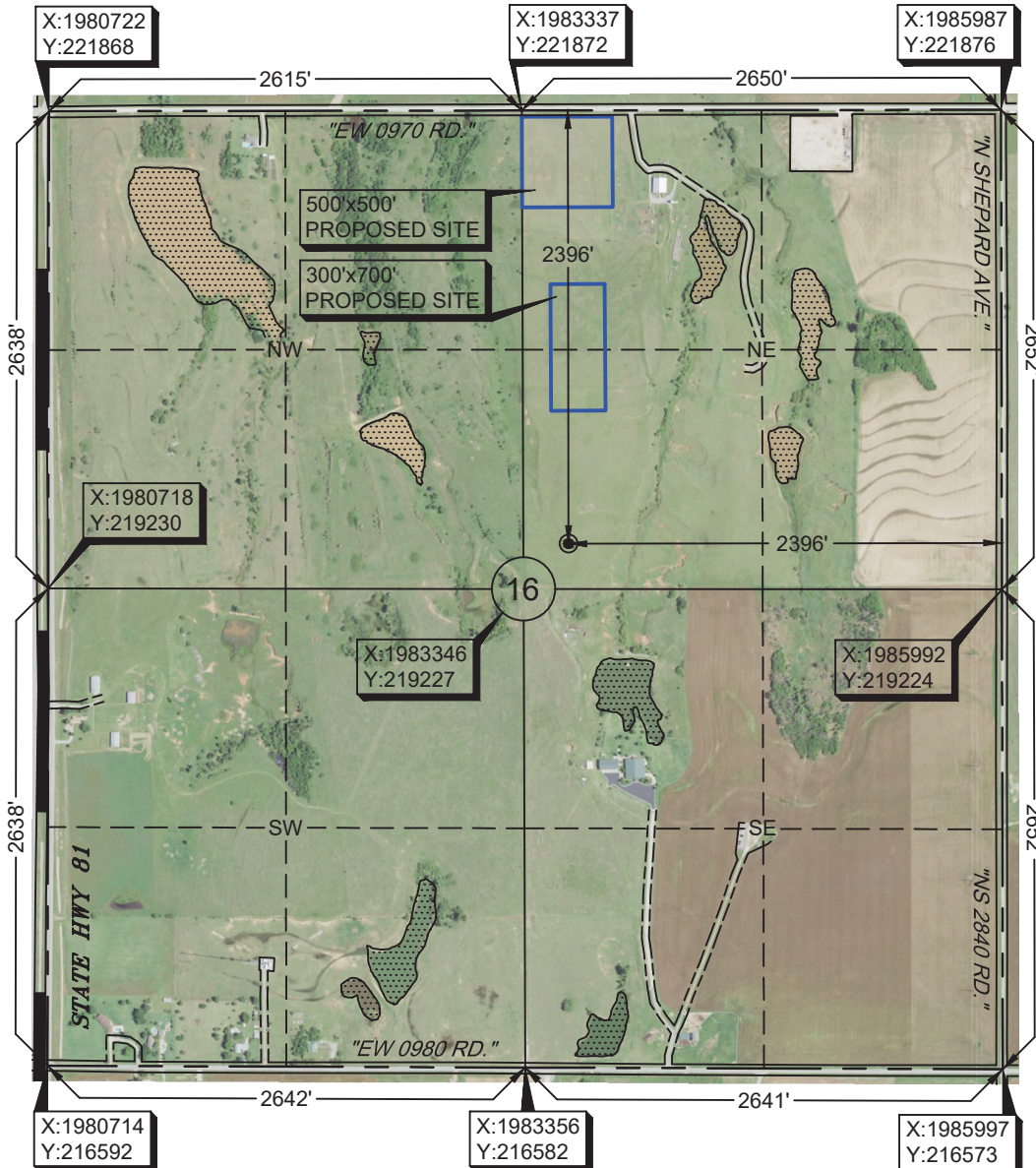


All bearings shown are grid bearings.



GPS DATUM
NAD 83
OK NORTH ZONE

Surface Hole Loc.:
Lat: 35°36'10.50"N
Lon: 97°56'57.20"W
Lat: 35.60291661
Lon: -97.94922198
X: 1983596
Y: 219477



Please note that this location was staked on the ground under the supervision of a Licensed Professional Land Surveyor and the accuracy of this survey is not guaranteed. Please contact Arkoma Surveying & Mapping, PLLC for more information. GPS data is shown here for Section Corners only. NOT to be used for other purposes. NOTE: X and Y data shown here 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.

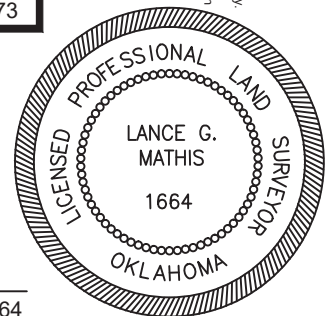
Invoice #8647

Date Staked: 05/10/19 By: J.W.
Date Drawn: 05/15/19 By: M.K.

Lance G. Mathis
LANCE G. MATHIS

05/16/19

OK LPLS 1664





Bison Well Location Plat

Sec. 16-13N-7W I.M.

Operator: BISON OILFIELD SERVICES, LLC

Lease Name and No.: SIEGRIST SWD 1-16

Footage: 2396' FNL - 2396' FEL Gr. Elevation: 1376'

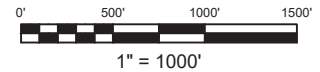
Section: 16 Township: 13N Range: 7W I.M.

County: Canadian State of Oklahoma

Terrain at Loc.: Location fell in a pasture, East of a staked pipeline, and North and East of an existing fence.

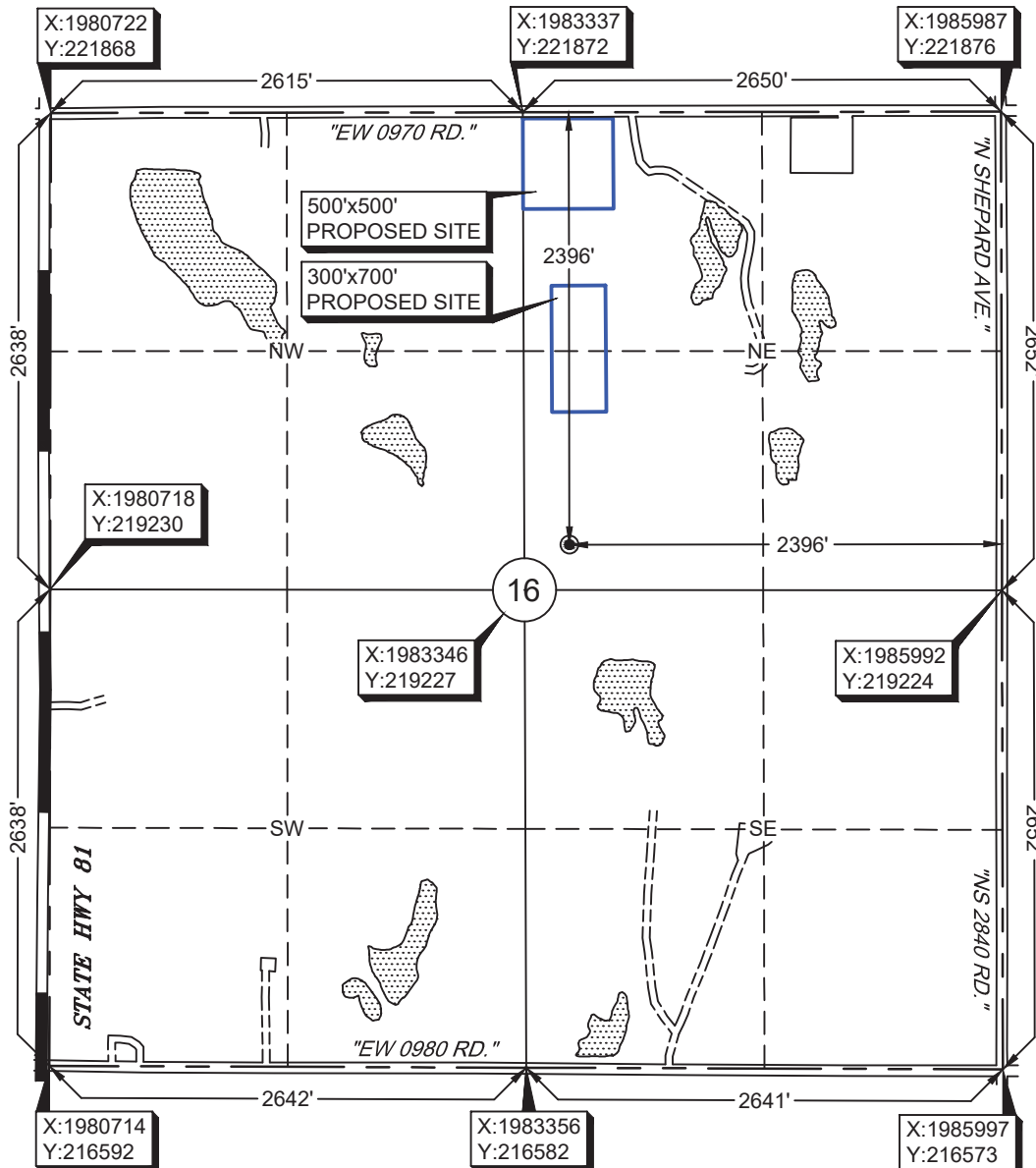


All bearings shown
are grid bearings.



GPS DATUM
NAD 83
OK NORTH ZONE

Surface Hole Loc.:
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Lon: 97°56'57.20"W
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Please note that this location was staked on the ground under the supervision of a Licensed Professional Land Surveyor. The accuracy of this survey is not guaranteed. Please contact Arkoma Surveying & Mapping, PLLC for more information. GPS data is shown here 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.

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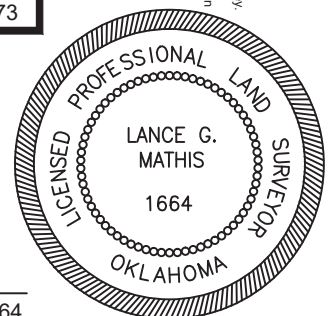
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Lance G. Mathis
LANCE G. MATHIS

05/16/19

OK LPLS 1664





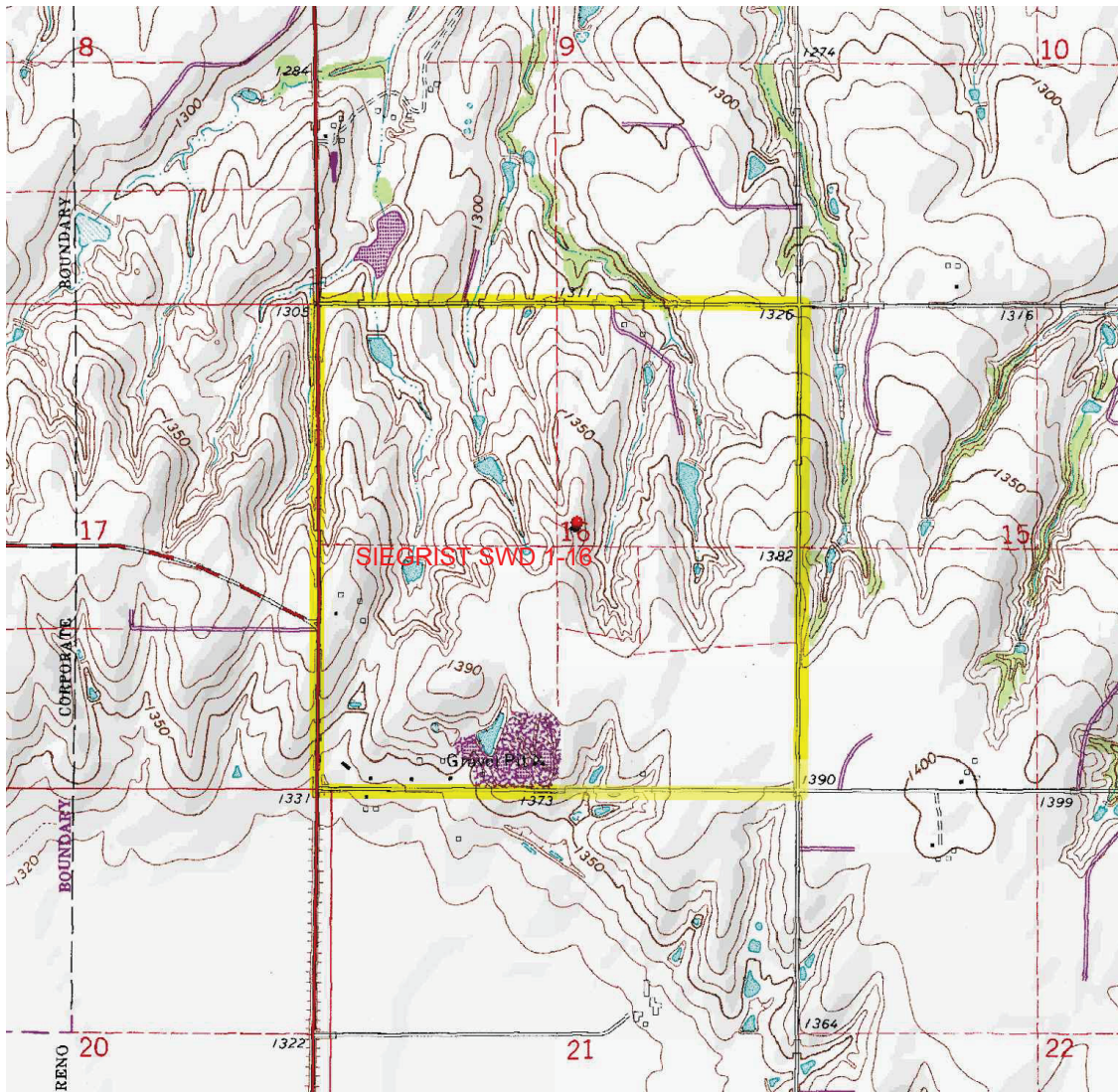
Bison Topographic Vicinity Map

Operator: BISON OILFIELD SERVICES, LLC
Lease Name and No.: SIEGRIST SWD 1-16
Surface Hole Location: 2396' FNL - 2396' FEL
Sec. 16 Twp. 13N Rng. 7W I.M.
County: Canadian State of Oklahoma



Ground Elevation at Surface Hole Location: 1376'

Scale 1" = 2000'
Contour Interval: 10'



Provided by:
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Expires June 30, 2020

Date Staked: 05/10/19

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 Bison

Job #: 8647

Operator: BISON OILFIELD SERVICES, LLC

Lease Name and No.: SIEGRIST SWD 1-16

Accessibility: From the South.

Directions: From the junction of US HWY 81 & State HWY 66 in the town of El Reno, OK, go 4.4 miles North on US HWY 81, then go 0.6 miles East on "122nd St NE" to the Northeast Quarter of Section 16-13N-7W on the North side of the road.

1 inch = 0.75 mile

provided 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. 5038
Expires June 30, 2020

