

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

API NUMBER: 153 23647

Approval Date: 10/25/2021  
Expiration Date: 04/25/2023

Directional Hole Oil & Gas

**PERMIT TO DRILL**

WELL LOCATION: Section: 01 Township: 22N Range: 20W County: WOODWARD

SPOT LOCATION: SW NW NW SW FEET FROM QUARTER: FROM SOUTH FROM WEST  
SECTION LINES: 2305 285

Lease Name: HILL Well No: 1-1 Well will be 285 feet from nearest unit or lease boundary.  
Operator Name: ORCA OPERATING COMPANY LLC Telephone: 9185824284 OTC/OCC Number: 22354 0

ORCA OPERATING COMPANY LLC  
427 S BOSTON AVE STE 400  
TULSA, OK 74103-4114

JAMES LESLIE HILL  
P.O. BOX 982  
BOONEVILLE AR 72927

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

Name	Code	Depth
1 MORROW	402MRRW	7957

Spacing Orders: No Spacing

Location Exception Orders: No Exceptions

Increased Density Orders: No Density

Pending CD Numbers: 202101845  
202101961

Working interest owners' notified: \*\*\*

Special Orders: No Special

Total Depth: 8550 Ground Elevation: 1929

Surface Casing: 350

Depth to base of Treatable Water-Bearing FM: 260

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

**Approved Method for disposal of Drilling Fluids:**

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 21-37891  
H. (Other) CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST

**PIT 1 INFORMATION**

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: rush springs

**DIRECTIONAL HOLE 1**

Section: 1 Township: 22N Range: 20W Meridian: IM  
County: WOODWARD

Measured Total Depth: 8550

Spot Location of End Point: SW NE NW SW

True Vertical Depth: 8440

Feet From: SOUTH 1/4 Section Line: 2140

End Point Location from  
Lease, Unit, or Property Line: 812

Feet From: WEST 1/4 Section Line: 812

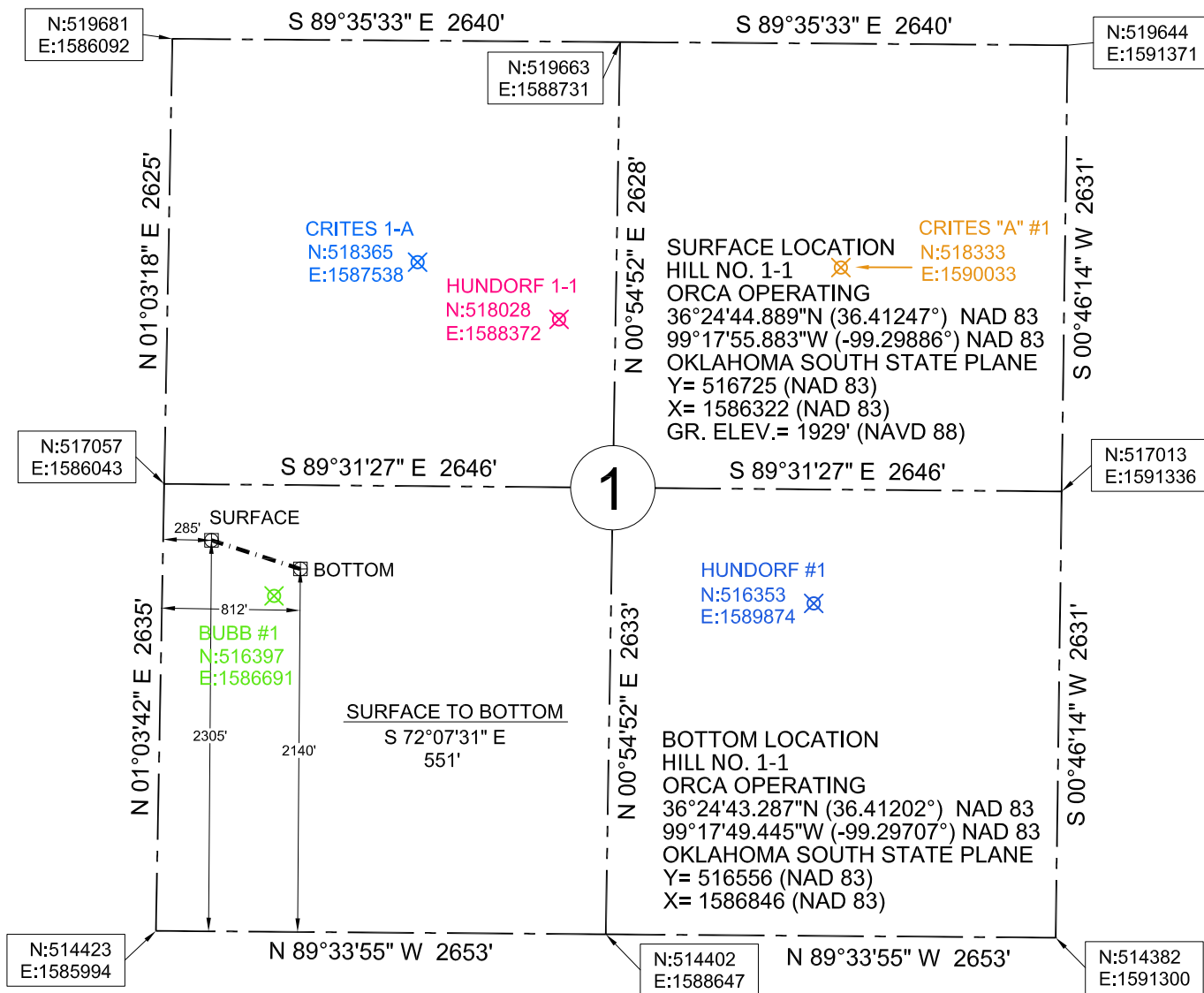
This permit does not address the right of entry or settlement of surface damages. The duration of this permit is 18 MONTHS, except as otherwise provided by Rule 165: 10-3-1. Rule 165: 10-3-4 (c) (7) (e) - The Operator shall give 24 Hours notice by telephone to the appropriate District Office of the Conservation Division as to when Surface Casing will be run.

Additional Surface Owner(s)	Address	City, State, Zip
JOEL DAVID HILL	8737 GARY DR	TULSA, OK 74131
JOHN LINDSAY HILL	817 HEARTLAND DRIVE	FT WAYNE, IN 46825
MICHAEL DENNIS RICH	300 LAKE EVA DRIVE	CHULUOTA, FL 32766

**NOTES:**

Category	Description
HYDRAULIC FRACTURING	<p>[10/18/2021 - GC2] - OCC 165:10-3-10 REQUIRES:</p> <p>1) NOTICE SHALL BE GIVEN AT LEAST 5 BUSINESS DAYS PRIOR TO COMMENCEMENT OF HYDRAULIC FRACTURING OPERATIONS ON A HORIZONTAL WELL TO OPERATORS PRODUCING WELLS WITHIN 1 MILE OF THE COMPLETION INTERVAL OF THE SUBJECT WELL. THE NOTICE TO SUCH OPERATORS SHALL CONTAIN THE INFORMATION IN FORM 6000NOO. IF THE HYDRAULIC FRACTURING OPERATIONS SCHEDULE CHANGES AFTER NOTICE HAS BEEN PROVIDED, RESULTING IN A DELAY OF OPERATIONS OF MORE THAN 5 DAYS FROM THE INITIAL NOTICE, NEW NOTICE IS REQUIRED TO BE GIVEN;</p> <p>2) NOTICE WILL BE GIVEN TO THE OCC CENTRAL OFFICE AND LOCAL DISTRICT OFFICES AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF HYDRAULIC FRACTURING OPERATIONS. FORM 6000NHF SHALL BE USED AND IS FOUND AT THIS LINK: <a href="http://OCCEWEB.COM/OG/OGFORMS.HTML">OCCEWEB.COM/OG/OGFORMS.HTML</a>; AND,</p> <p>3) THE CHEMICAL DISCLOSURE OF HYDRAULIC FRACTURING INGREDIENTS FOR ALL WELLS IS TO BE REPORTED TO FRACFOCUS WITHIN 60 DAYS AFTER THE CONCLUSION OF HYDRAULIC FRACTURING OPERATIONS, FOUND AT <a href="http://FRACFOCUS.ORG">FRACFOCUS.ORG</a></p>
PENDING CD - 202101845	<p>[10/25/2021 - GC2] - (640) 1-22N-20W  VAC OTHER  VAC 153697 MRRW S2 1-22N-20W  EXT 138226 MRRW  EXT OTHER  REC. 9-27-2021 (MOORE)</p>
PENDING CD - 202101961	<p>[10/25/2021 - GC2] - (I.O.) 1-22N-20W  X202101845 MRRW  SHL NCT 2305' FSL, NCT 285' FWL  COMPL. INT. NCT 2180' FSL, NCT 685' FWL  NO OP NAMED  REC. 10-12-2021 (MOORE)</p>

Section 1, T 22 N, R 20 W.I.M.,  
Woodward County, Oklahoma.



Surface Hole Location

Hill No. 1-1 situated 2305 feet from the south section line and 285 feet from the west section line of Section 1, T 22 N, R 20 W.I.M., Woodward County, Oklahoma.

Bottom Hole Location

Hill No. 1-1 situated 2140 feet from the south section line and 812 feet from the west section line of Section 1, T 22 N, R 20 W.I.M., Woodward County, Oklahoma.

Horiz. Datum: NAD 83  
Units: US Survey Feet  
North: Grid  
Coordinates: State Plane  
Zone: 3501  
State: Oklahoma  
Region: North  
Vertical Datum: NAVD 88



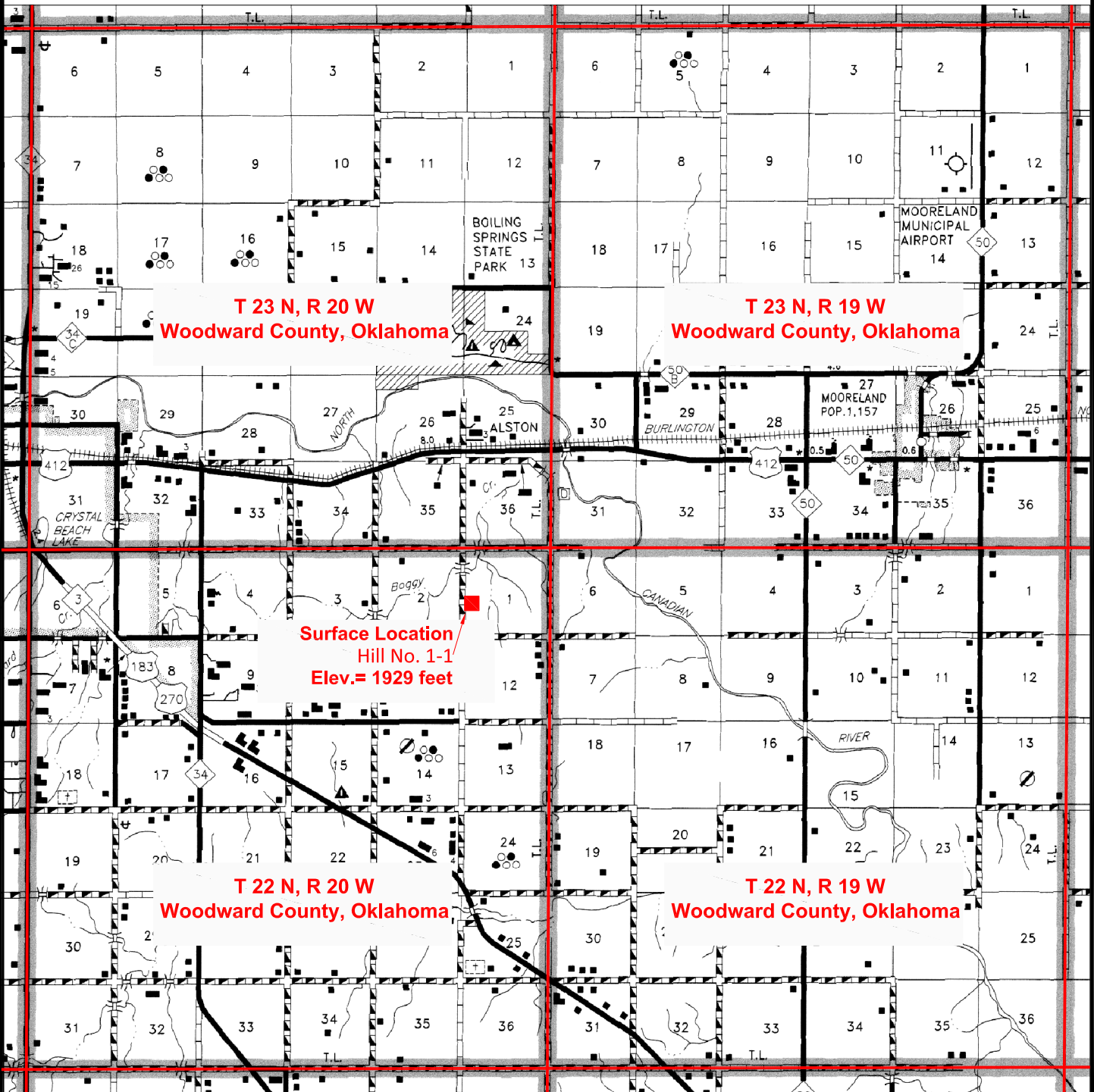
LEGEND	
	PLUGGED WELL
	EXISTING WELL
	SECTION LINE
	1/4 SECTION LINE
	PROPOSED LATERAL
	EXISTING LATERAL



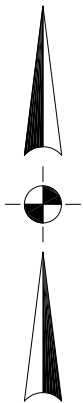
580-256-6757  
**ON POINT**  
Land Survey  
1918 MAIN STREET  
WOODWARD, OKLAHOMA 73801  
OKLA. CA #7719, EXP. 06/30/2023

SURVEY NOTES	1. EXISTING WELL COORDINATES ARE FROM THE OCC WEB SITE AND WERE NOT FIELD LOCATED.					
	2. UTILITIES SHOWN HEREON ARE FROM OBSERVED EVIDENCE IN THE FIELD.					
REVISIONS:	3. THIS SURVEY IS FOR A WELL LOCATION EXHIBIT ONLY. NOT TO BE USED AS A BOUNDARY SURVEY.					
	4. DATE OF LAST SITE VISIT: 09-17-2021					
REVISE BOTTOM HOLE LOCATION	C.M.G.	379-21	09-22-2021	1"=1000'	1 OF 4	
email:mike@onpointsurveyok.com web:www.onpointlandsurveyok.com						

Section 1, T 22 N, R 20 W.I.M.,  
Woodward County, Oklahoma.



VICINITY MAP



Surface Hole Location

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Bottom Hole Location

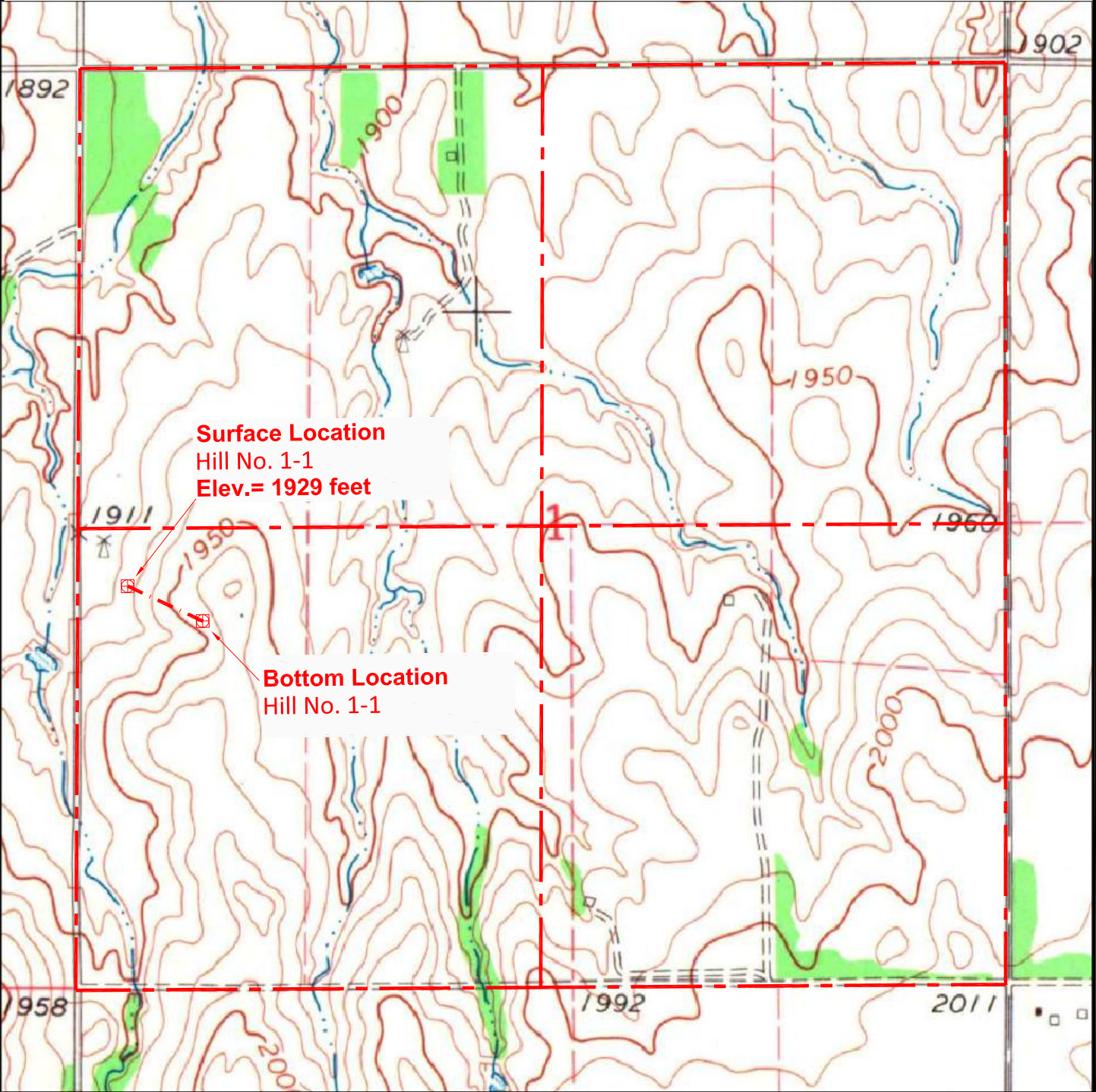
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**ON POINT**  
**Land Survey**  
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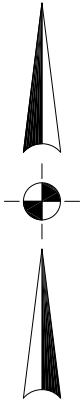
REVISIONS: 10-18-2021	DRAWN BY:	JOB:	DATE OF PLAT:	SCALE:	SHEET:
REVISE BOTTOM HOLE LOCATION	C.M.G.	379-21	09-22-2021	NTS	2 OF 4
email:mike@onpointsurveyok.com web:www.onpointlandsurveyok.com					



Section 1, T 22 N, R 20 W.I.M.,  
Woodward County, Oklahoma.



ELEVATION MAP



Surface Hole Location

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580-256-6757

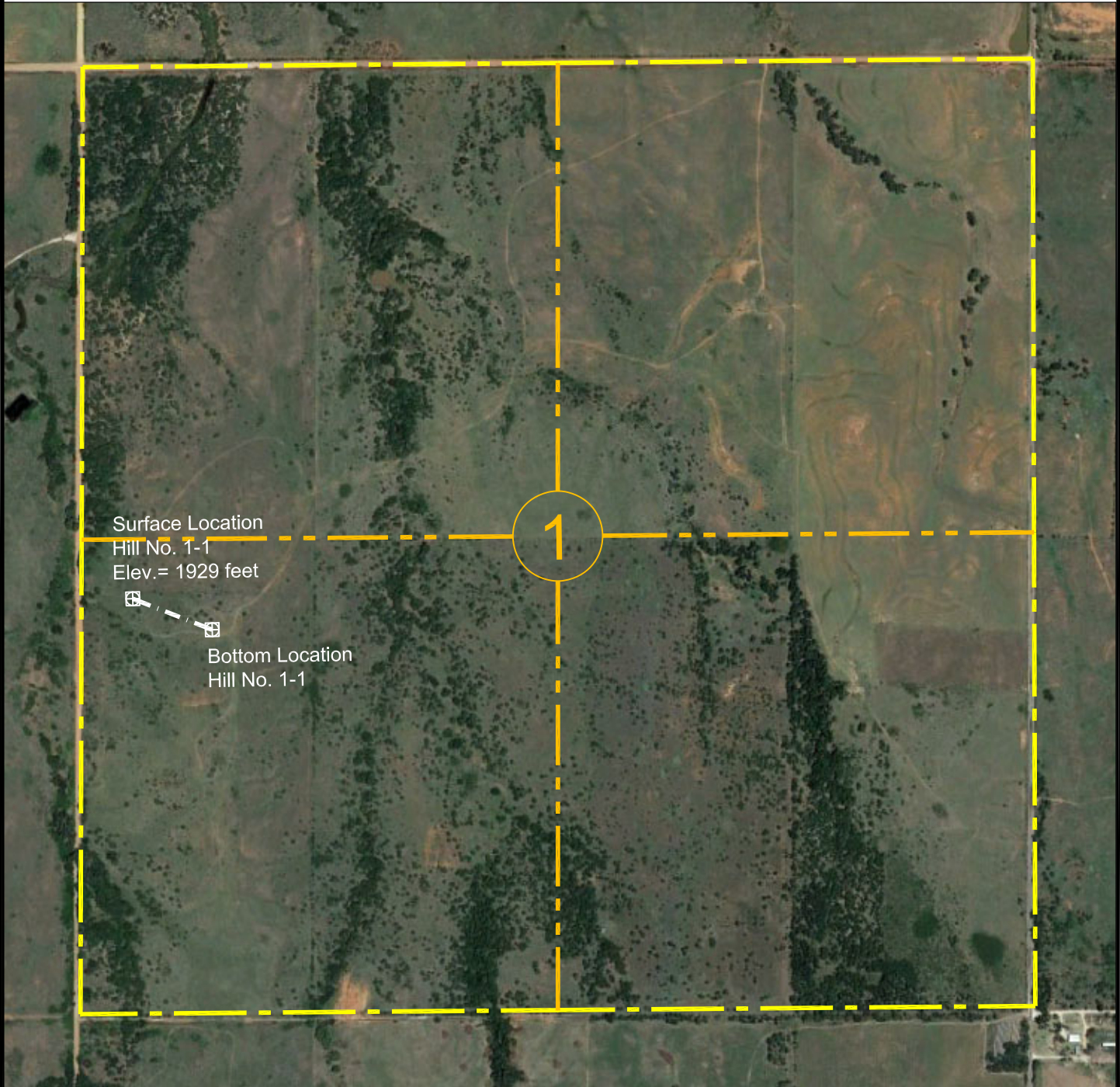
**ON POINT**  
Land Survey

1918 MAIN STREET  
WOODWARD, OKLAHOMA 73801  
OKLA. CA #7719, EXP. 06/30/2023

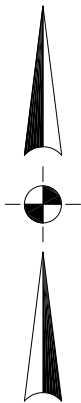
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email:mike@onpointsurveyok.com web:www.onpointlandsurveyok.com					



Section 1, T 22 N, R 20 W.I.M.,  
Woodward County, Oklahoma.



2017 PHOTO



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580-256-6757

ON POINT

Land Survey

1918 MAIN STREET

WOODWARD, OKLAHOMA 73801

OKLA. CA #7719, EXP. 06/30/2023

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