API NUMBER: 051 24522

Oil & Gas

Horizontal Hole

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

Approval Date: 11/16/2018
Expiration Date: 05/16/2020

#### PERMIT TO DRILL

					SECTION LINES:		2408		489
SPOT LOCATION:	NW	NE	NE	SE	FEET FROM QUARTER:	FROM	SOUTH	FROM	EAST
WELL LOCATION:	Sec:	11	Twp: 5N	Rge: 6W	/ County	y: GRA	NDY		

Lease Name: BURTON 4 0506 Well No: 11-14-23WX Well will be 489 feet from nearest unit or lease boundary.

Operator MARATHON OIL COMPANY Telephone: 4057205508 OTC/OCC Number: 1363 0

MARATHON OIL COMPANY 7301 NW EXPRESSWAY STE 225

OKLAHOMA CITY, OK 73132-1590

DURL RAY BURTON AND LORETTA MAE BURTON 6161 NORTH LAKE ROAD

Special Orders:

NINNEKAH OK 73067

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

	Name	Depth	Name	Depth
1	WOODFORD	15250	6	
2			7	
3			8	
4			9	
5			10	
Spacing Orders:	454536	Location Exception Orders:		Increased Density Orders:
	455877	•		,
	447764			

Pending CD Numbers: 201809078

Total Depth: 28043 Ground Elevation: 1032 Surface Casing: 1500 Depth to base of Treatable Water-Bearing FM: 90

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

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 D. C
Chlorides Max: 5000 Average: 3000 H. S

Is depth to top of ground water greater than 10ft below base of pit? Y

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: DUNCAN

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 18-35797

H. SEE MEMO

#### PIT 2 INFORMATION

Type of Pit System: CLOSED Closed System Means Steel Pits

Type of Mud System: OIL BASED
Chlorides Max: 300000 Average: 200000

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: DUNCAN

#### **HORIZONTAL HOLE 1**

Rge 6W Sec 23 Twp 5N County GRADY NE Spot Location of End Point: S2 SE SE Feet From: NORTH 1/4 Section Line: 2475 EAST Feet From: 1/4 Section Line: 330

Depth of Deviation: 14838 Radius of Turn: 462 Direction: 176

Total Length: 12479

Measured Total Depth: 28043

True Vertical Depth: 15949

End Point Location from Lease,
Unit, or Property Line: 330

Notes:

**MEMO** 

Category Description

DEEP SURFACE CASING 11/8/2018 - G71 - APPROVED; NOTIFY OCC FIELD INSPECTOR IMMEDIATELY OF ANY LOSS OF

CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON ANY CONDUCTOR OR

SURFACE CASING

HYDRAULIC FRACTURING 11/8/2018 - 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:

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

11/8/2018 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 -

OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

PENDING CD - 201809072 11/16/2018 - G58 - 11-5N-6W

X454536 WDFD 2 WELLS NO OP. NAMED

REC 11/16/2018 (P. PORTER)

Category Description PENDING CD - 201809076 11/16/2018 - G58 - (E.O.) 11, 14, & 23-5N-6W EST MULTIUNIT HORIZONTAL WELL X454536 WDFD X455877 WDFD X447764 WDFD **XOTHERS** 25% 11-5N-6W 50% 14-5N-6W 25% 23-5N-6W NO OP. NAMED REC 11/16/2018 (P. PORTER) PENDING CD - 201809077 11/16/2018 - G58 - 14-5N-6W X455877 WDFD 1 WELL NO OP. NAMED REC 11/16/2018 (P. PORTER) PENDING CD - 201809078 11/16/2018 - G58 - (E.O.) 11, 14, & 23-5N-6W X454536 WDFD X455877 WDFD X447764 WDFD **XOTHERS** COMPL. INT. 11-5N-6W NCT 1900' FNL, NCT 0' FSL, NCT 330' FEL COMPL. INT. 14-5N-6W NCT 0' FNL, NCT 0' FSL, NCT 330' FEL COMPL. INT. 23-5N-6W NCT 0' FNL, NCT 1900' FSL, NCT 330' FEL NO OP. NAMED REC 11/16/2018 (P. PORTER) PENDING CD - 201809089 11/16/2018 - G58 - 23-5N-6W X447764 WDFD 1 WELL NO OP. NAMED REC 11/16/2018 (P. PORTER) **SPACING - 447764** 

11/16/2018 - G58 - (640) 23-5N-6W

**EXT OTHERS** EXT 408097 WDFD

**SPACING - 454536** 11/16/2018 - G58 - (640) 11-5N-6W

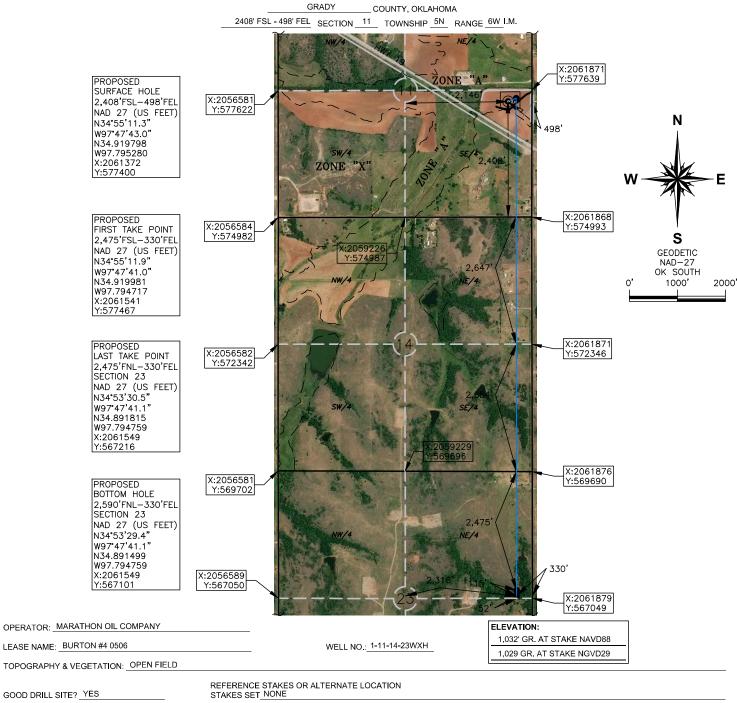
**EXT OTHERS** EST WDFD, OTHER

**SPACING - 455877** 11/16/2018 - G58 - (640) 14-5N-6W

EXT 454536 WDFD, OTHERS



## 051-24522



GOOD DRILL SITE? YES

BEST ACCESS TO LOCATION: HIGHWAY 19 TO THE SOUTH

DISTANCE AND DIRECTION

Y: 577400

FROM HWY JCT OR TOWN FROM THE INTERSECTION OF OK STATE HWY 19 AND OKLAHOMA 19C JUST SOUTH OF ALEX, OK. DRIVE NORTHWEST ON STATE HWY 19 FOR 1 MILE TO THE

INTERSECTION WITH N 2920 RD (LAKE RD). DRIVE NORTH ON N 2920 RD (LAKE RD) FOR .7 MILES TO TO THE ACCESS ROAD TO THE WEST.

DATUM: \_NAD 27 LAT: 34° 55' 11.3" N LONG: 97° 47' 43.0" W LAT: 34.919798° N LONG: 97.795280° W STATE PLANE COORDINATES: (US FEET) ZONE: OK SOUTH X: 2061372

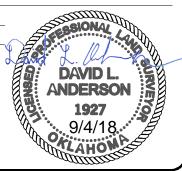
DATE OF DRAWING: 08-28-18 17001111 DATE STAKED: 08-23-18 JOB NO.: \_\_

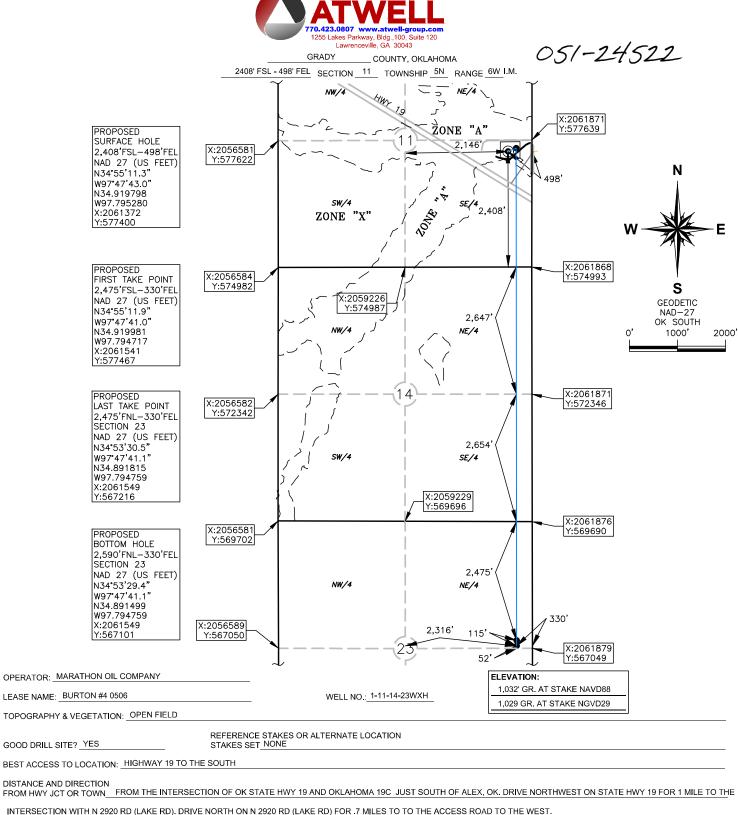
CERTIFICATE:

DAVID L. ANDERSON an Oklahoma Licensed Land Surveyor and an authorized agent of Atwell, LLC, do hereby certify to the information shown herein

9/4/18

Oklahoma Lic. No. <u>1927</u>





INTERSECTION WITH N 2920 RD (LAKE RD). DRIVE NORTH ON N 2920 RD (LAKE RD) FOR .7 MILES TO TO THE ACCESS ROAD TO THE WEST

DATE OF DRAWING: 08-28-18

JOB NO.: \_

DATUM: NAD 27

LAT: 34° 55' 11.3" N

LONG: 97° 47' 43.0" W

LAT: 34.919798° N

LONG: 97.795280° W

STATE PLANE
COORDINATES: (US FEET)

ZONE: OK SOUTH

X: 2061372 Y: 577400 CERTIFICATE:

17001111

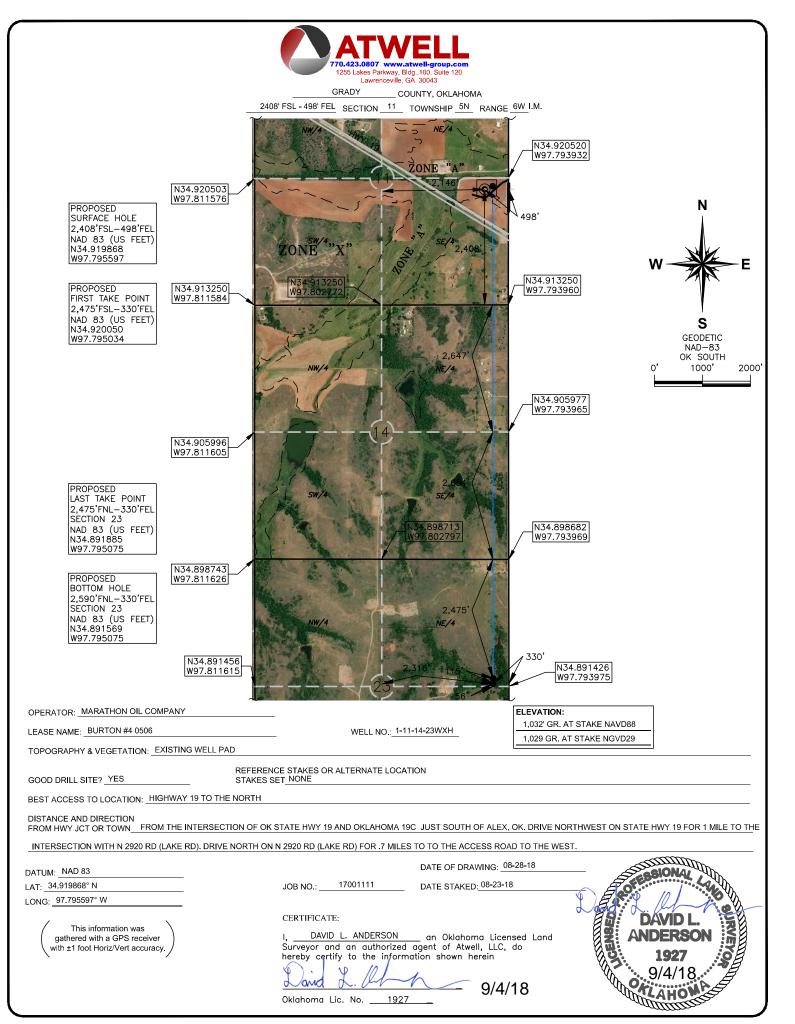
Oklahoma Lic. No. 1927

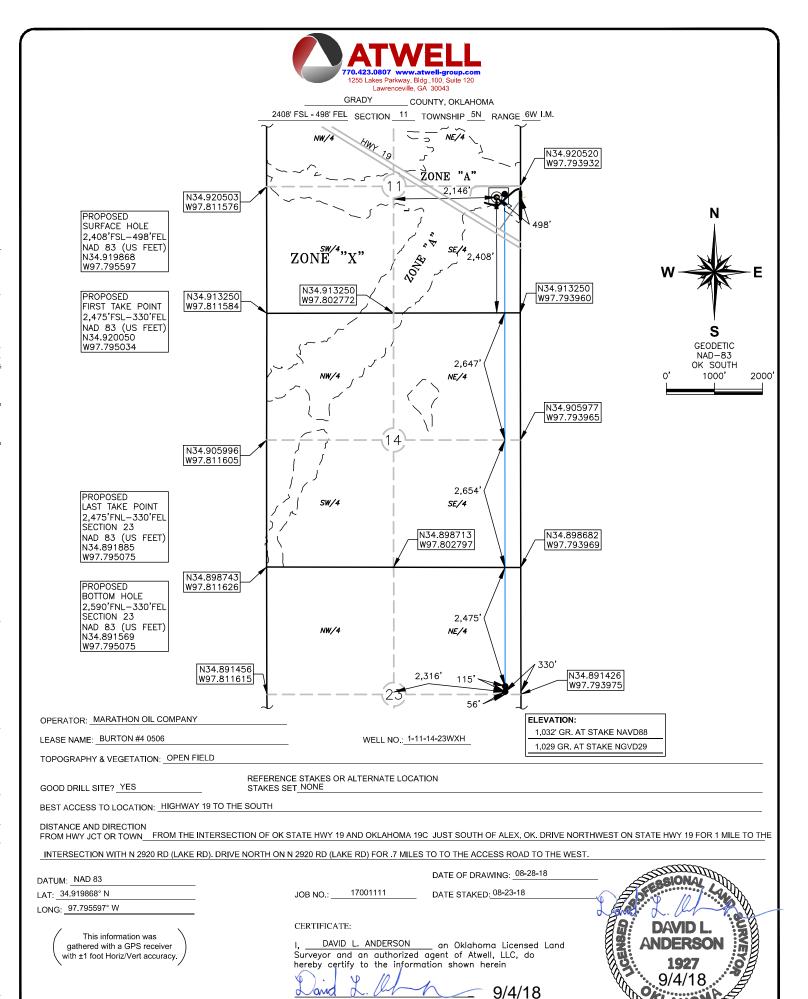
I, DAVID L. ANDERSON an Oklahoma Licensed Land Surveyor and an authorized agent of Atwell, LLC, do hereby certify to the information shown herein

David L. Ohn

9/4/18

DATE STAKED: 08-23-18





Oklahoma Lic. No. <u>1927</u>

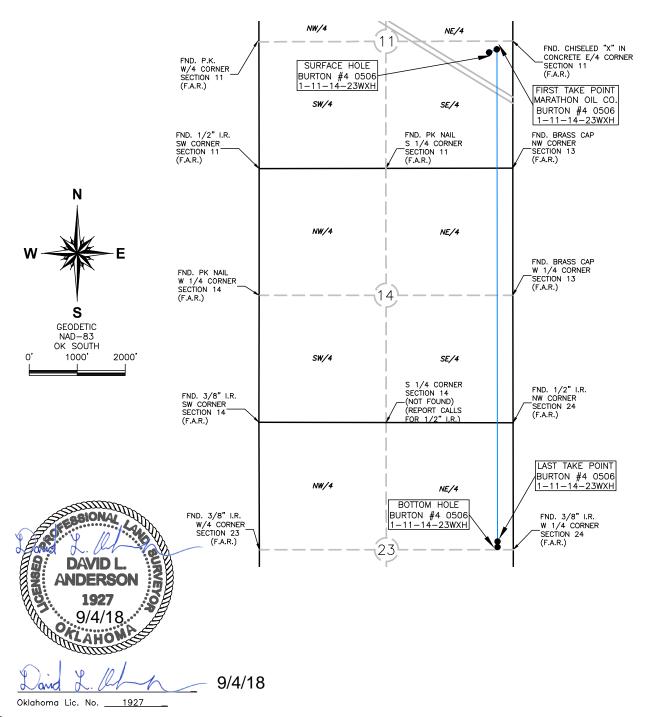
### LEGEND:

FND. – FOUND I.P. – IRON PIPE I.R. – IRON ROD

F.A.R. — FOUND AS RECORDED

## T5N - R6W

(INDIAN MERIDIAN)



PLAT SHOWING CONTROL MONUMENTATION FOR SECTIONS 11, 14 & 23, T5N - R6W, GRADY COUNTY, OKLAHOMA

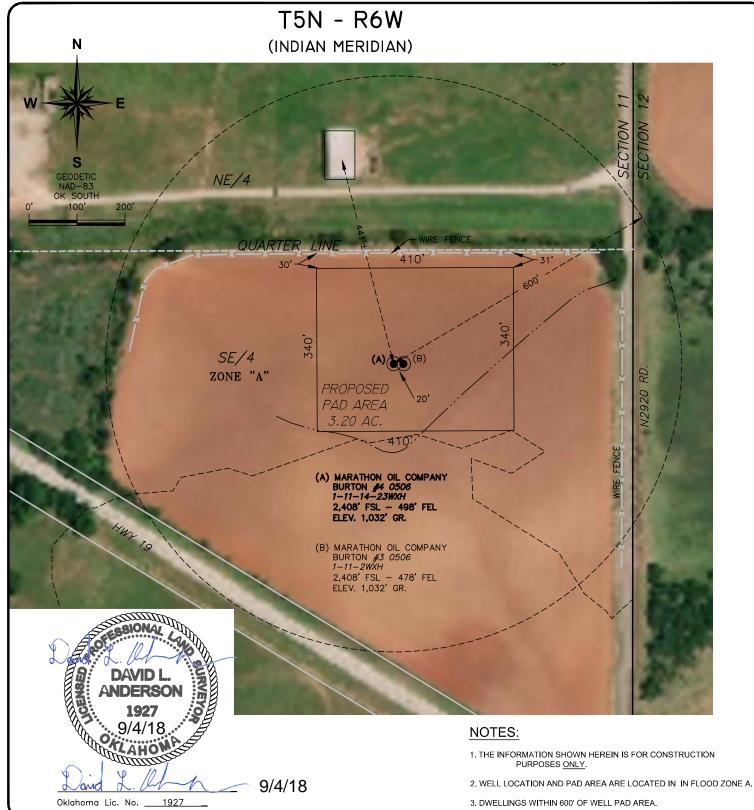
THIS PLAT WAS PREPARED EXCLUSIVELY FOR MARATHON OIL COMPANY AND MAY NOT BE RELIED UPON BY ANY OTHER ENTITY WITHOUT THE CONSENT OF ATWELL, LLC.



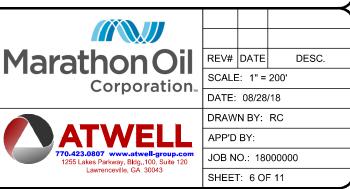


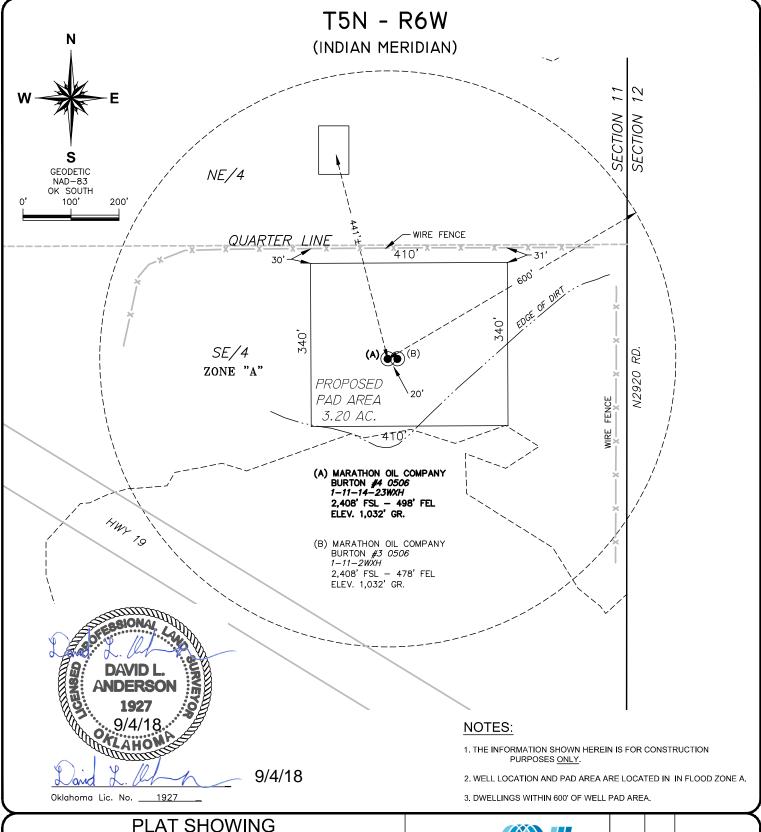
	REV#	DATE	DESC.			
	SCALE	: 1" =	2000'			
4	DATE: 08/28/18					
	DRAWN BY: RC APP'D BY: DC					
	JOB NO.: 18000000					

SHEET: 5 OF 11



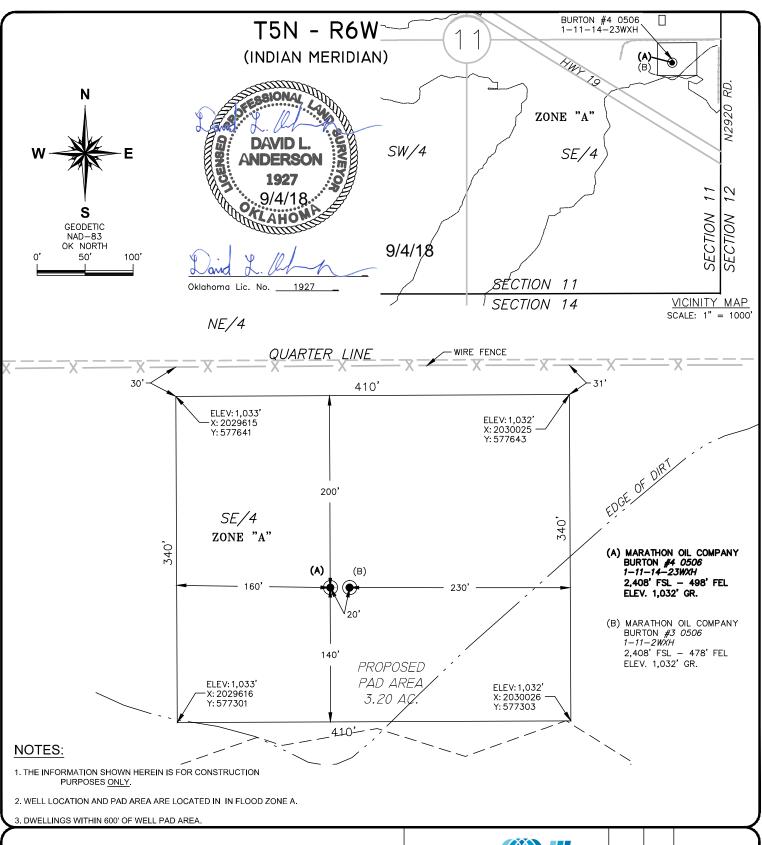
PLAT SHOWING
600' RADIUS OF A PROPOSED WELL AND
PAD AREA FOR BURTON #4 0506
1-11-14-23WXH
IN THE SE/4 OF SECTION 11, T5N - R6W,
GRADY COUNTY, OKLAHOMA



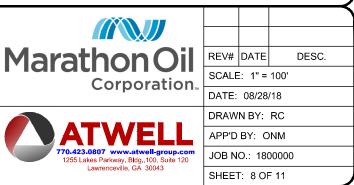


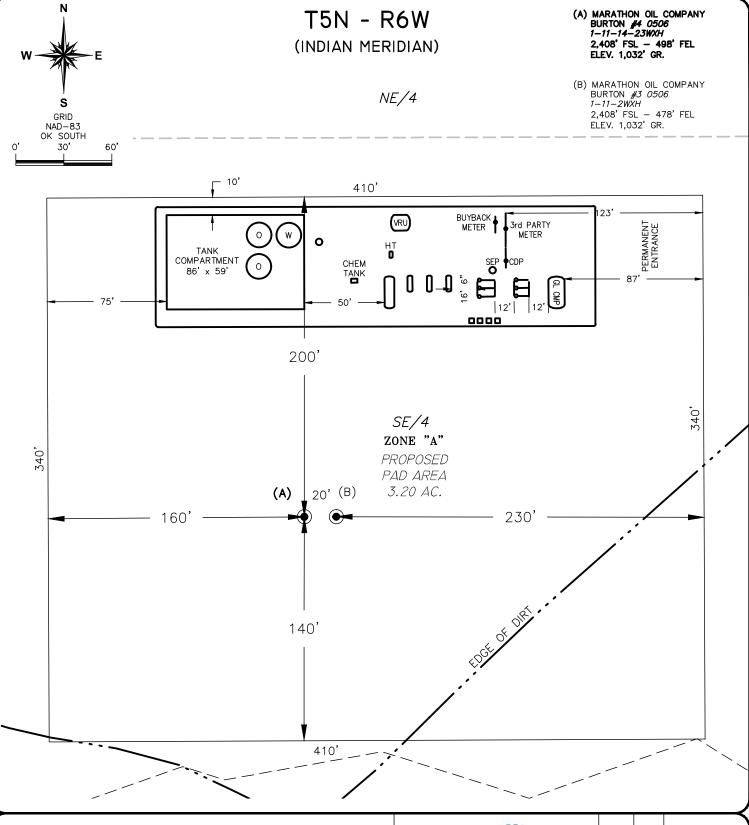
600' RADIUS OF A PROPOSED WELL AND PAD AREA FOR BURTON #4 0506
1-11-14-23WXH
IN THE SE/4 OF SECTION 11, T5N - R6W,
GRADY COUNTY, OKLAHOMA





PLAT SHOWING
PROPOSED PAD AREA IN THE
SE/4 OF SECTION 11, T5N - R6W,
GRADY COUNTY, OKLAHOMA





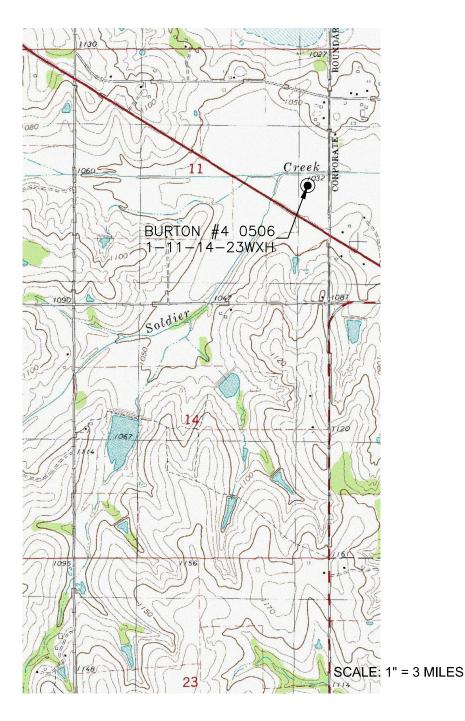
PLAT SHOWING TWO WELL FACILITY LAYOUT IN THE SE/4 OF SECTION 11, T5N - R6W, GRADY COUNTY, OKLAHOMA





	REV#	DATE	DESC.				
тм	SCALE: 1" = 60'						
	DATE: 08/28/18						
	DRAWN BY: RC						
1	APP'D BY: DC & ONM						
	JOB NO.: 180000000						
	SHEET: 9 OF 11						

## LOCATION & ELEVATION VERIFICATION MAP





SEC. 11 TWP. 5N RNG. 6W

COUNTY GRADY STATE OK

OPERATOR\_MARATHON OIL COMPANY

DESCRIPTION 2,408' FSL - 498' FEL

LEASE BURTON #4 0506 1-11-14-23WXH

ELEVATION 1,032' GR. AT STAKE NAVD88 1,029' GR. AT STAKE NGVD29

U.S.G.S. TOPOGRAPHIC QUADRANGLE MAP LINDSAY SW & COX CITY

ABOVE BACKGROUND DATA FROM U.S.G.S. TOPOGRAPHIC MAP

SCALE: 1" = 2000'

CONTOUR INTERVAL 1

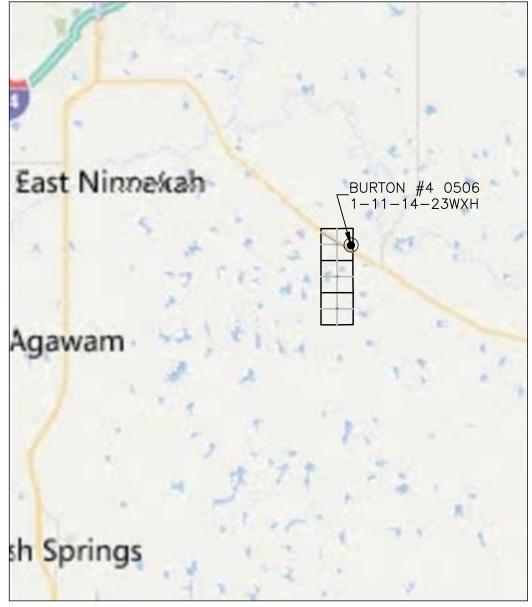
N IT IS THE GRO

WHEN THE ELEVATION IS SHOWN HEREON IT IS THE GROUND ELEVATION OF THE LOCATION STAKE. REVIEW THIS PLAT AND INFORM US IMMEDIATELY OF ANY POSSIBLE DISCREPANCY.



8/28/2018

# **VICINITY MAP**





SCALE: 1" = 3 MILES

 SEC.
 11
 TWP.
 5N
 RNG.
 6W

 COUNTY GRADY
 STATE
 OK

 OPERATOR
 MARATHON OIL COMPANY



8/28/2018