API NUMBER: 143 24337

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

Approval Date: 05/12/2021

Expiration Date: 11/12/2022

Straight Hole Oil & Gas

PERMIT TO DRILL

						-							
WELL LOCATION:	Section:	21	Township	: 19N	Range:	11E	County: 1	ULSA					
SPOT LOCATION:	NW	NW	SW	FEET FROM C	UARTER:	FROM	SOUTH	FROM	WEST				
				SECTION	ON LINES:		2554		819				
Lease Name:	SWL					Well No:	: 1			Well will be	300	feet from nearest ur	nit or lease boundary.
Operator Name:	CALVERT OP	ERATING	LLC		Te	elephone:	40584822	22				OTC/OCC Nu	ımber: 22765 0
CALVERT OPERATING LLC								Т	OM WARREN				
5609 N CLASSEN BLVD STE 100								3450 S 137TH WEST AVENUE					
OKLAHOMA CITY, OK 73118-4032								s.	SAND SPRINGS OK 73118				
F((-)	(Dame') \/-	P. J. C 1.			. 1 3								
Formation(s)	(Permit va	lia for L	isted Foi	rmations Or	ııy):								
Name			Code	•	ı	Depth			Name			Code	Depth
1 BIG LIME			404B	GLM	8	840		6	KINDERHOOK			351KDRK	2005
2 RED FORK			404R	DFK		1370		7	WOODFORD			319WDFD	2035
3 INOLA			404INOL			1485			MISENER			319MSNR	2055
4 BOOCH			404B	OCH		1725		9	SIMPSON			202SMPS	2060
5 MISSISSIPP	I LIME		351N	MSSLM		1810		10	ARBUCKLE			169ABCK	2150
Spacing Orders:	No Spacing				Locat	tion Excep	ption Orders	: No	Exceptions		In	creased Density Orders	No Density Orders
Pending CD Numbers: No Pending Workin					Norking interest owners' notified: ***			Special Orders: No Special Orders					
Total Depth: 2	150	Ground E	Elevation:	754	Sı	ırface (Casing:	100		Depth	to base	of Treatable Water-Bea	aring FM: 40
Under Federal Jurisdiction: No						Approved Method for disposal of Drilling Fluids:							
Fresh Water Supply Well Drilled: No						A. Evaporation/dewater and backfilling of reserve pit.							
Surface	e Water used to	Drill: No											
PIT 1 INFOR									Category	of Pit: 4			
Type of Pit System: ON SITE							Liner not required for Category: 4						
Type of Mud System: AIR						Pit Location is: NON HSA							
									Pit Location Forma	ition: NELLI	BLY		
Is depth to top of ground water greater than 10ft below base of pit? Y							Mud System Change to Water-Based or Oil-Based Mud Requires an Amended Intent (Form 1000).						

NOTES:

Pit

Within 1 mile of municipal water well? N $\label{eq:Wellhead Protection Area?} \ N$

is not located in a Hydrologically Sensitive Area.

Category	Description
HYDRAULIC FRACTURING	[5/4/2021 - GC2] - OCC 165:10-3-10 REQUIRES:
	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;
	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: OCCEWEB.COM/OG/OGFORMS.HTML; AND,
	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 FRACFOCUS.ORG
SPACING	[5/12/2021 - GC2] - FORMATIONS UPSPACED, 600-ACRE LEASE MINUS NW4 NW4

Well Location Plat

Operator: CALVERT OPERATING Lease Name and No.: SWL #1

Surface Hole Location: 2554' FSL - 819' FWL Gr. Elevation: 754'

NW/4-NE/4-NW/4-SW/4 Section: 21 Township: 19N Range: 11E I.M.

County: Tulsa State of Oklahoma

Terrain at Loc.: Location fell in scattered timber, ±90' NW of the centerline of an

existing road.



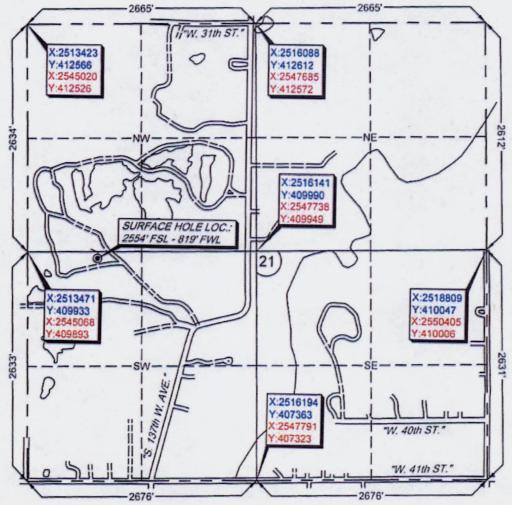
Sec. 21-T19N-R11E I.M.

GPS DATUM NAD 83 NAD 27 OK NORTH ZONE

1" = 1000

Surface Hole Loc Lat: 36°06'42.13"N Lon: 96°09'07.63"W Lat: 36.11170165 Lon: -96.15211876 X: 2514291 Y: 409873 Surface Hole Loc.

Lat: 36°06'41.81"N Lon: 95°09'06.61"W Lat: 36.11161523 Lon: -96.15183748 X: 2545888 Y: 409833



Prease 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. Prease contact Anoma Surveying and Mapping promptly it any inconsistency is determined. O'Bd data is observed from RTM - GIPS - NOTE: X and Y data shown bettern for Section Contents may NOT have been surveyed on the ground, and further, does RDM represent a true Boundary Survey. Guarter Section distances may be assumed from a Covernment Survey Prist or assumed at a proportionale distance from opposing section comers: or occupation policies and may not previously survey.

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

Certificate of Authorization No. 5348 Expires June 30, 2022

Invoice #9323

Date Staked: 03/29/2021 By: B.M.
Date Drawn: 03/31/2021 By: J.K.
Revise Lse. Nm.: 04/05/2021 By: R.M.
Revise Lse. Nm.: 04/06/2021 By: R.M.

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

04/06/2021 **OK LPLS 1664**



Well Location Plat

Operator: CALVERT OPERATING Lease Name and No.: SWL #1

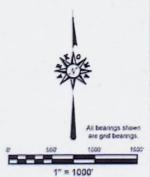
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NW/4-NE/4-NW/4-SW/4 Section: 21 Township: 19N Range: 11E I.M.

State of Oklahoma

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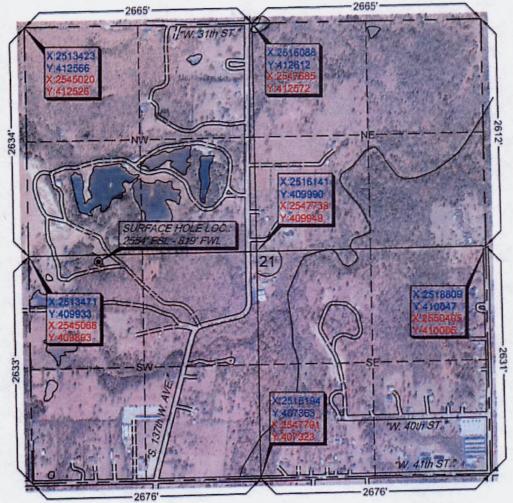


Sec. 21-T19N-R11E I.M.

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> Surface Hole Loc. Lat: 36°06'42.13"N Lon: 96°09'07.63"W Lat: 36.11170165 Lon: -96.15211876 X: 2514291 Y: 409873

Surface Hole Loc. Lat: 36°96'41.81"N Lon. 96°09'06.61"W Lat: 36 11161523 Lon: -96.15183748 X: 2545888 Y: 409833



Please note that this location was staked on the ground under the supervision of a Licensed Professional Land Gurveyor, but the accuracy of this survey is not guaranteed. Please contact Animon Gurveyor, and Mapping promptly of any inconsistency is determined. ORD data is observed from RTA. - ORD - 4-00E. X and Y data shown hereon for flection Gomers may NOT have been surveyed on the ground, and further, does NOT represent it the Boundary Survey. - Quarter Section distances may be assumed them a Government Survey Plat or sessumed at a proportionate distance from exposing section contexts, or cocupation patient, and further, does not surveyed and may not have been measured on the ground, and further, does not survey. Arkoma Surveying and Mapping, PLLC P.O. Box 238 Wilburton, OK 74578
Ph. 918-465-5711. Fax 918-465-5730.

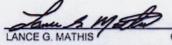
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04/06/2021 **OK LPLS 1664**



Topographic Vicinity Map

Operator: CALVERT OPERATING Lease Name and No.: SWL #1

Surface Hole Location: 2554' FSL - 819' FWL Section: 21 Township: 19N Range: 11E I.M.

County: Tulsa State of Oklahoma

Ground Elevation at Surface Hole Location: 754'



Scale 1" = 2000' Contour Interval: 10'



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. 5348 Expires June 30, 2022

Date Staked: 03/29/2021

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.

