API NUMBER:	039	22620	

Oil & Gas

Multi Unit

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

Approval Date: 12/09/2022 Expiration Date: 06/09/2024

PERMIT TO DRILL

WELL LOCATION:	Section: 01	Township: 1	14N Rang	e: 14W	County: C	USTER						
SPOT LOCATION:	SW SW SE	E SE	FEET FROM QUARTE	R: FROM	SOUTH	FROM EAST						
			SECTION LINE	IS:	255	1255						
Lease Name:	COMER 1514			Well No:	2H-36X		Well will be	255	feet from	nearest unit	or lease	boundary.
Operator Name:	TAMWORTH RESOU	RCES LLC		Telephone:	918409983	39			отс	C/OCC Num	ber:	24525 0
TAMWORTH	RESOURCES LL	С				BRAD PERKIN	IS					
PO BOX 1404	490					90560 N 2450	ROAD					
BROKEN ARI	ROW,	OK	74014-0005			THOMAS			OK	73669		
Formation(s)	(Permit Valid for	Listed Form	nations Only):									
Name		Code	, , , , , , , , , , , , , , , , , , ,	Depth								
1 WOODFORE	C	319WD	FD	14400								
Spacing Orders:	689129		Lo	cation Excep	tion Orders:	726938		Inc	reased Der	nsity Orders:	No [Density
	677825											,
	727645											
Pending CD Numbe	ers: No Pendin	g		Working inte	erest owner	s' notified: ***			Spe	ecial Orders:	No S	Special
		0										
Total Dopth: 2	5000 Group	d Elovation: 16	79 (Surfaca (`acina:	1500	Denth t	n hase r	of Treatable	Water-Rearin	na EM· é	50
Total Depth: 2	5000 Ground	d Elevation: 16	78	Surface C	asing:	1500	Depth t			Water-Bearin	_	
Total Depth: 2	5000 Ground	d Elevation: 16	78	Surface C	Casing:	1500	Depth t				_	
	5000 Ground Federal Jurisdiction: N		78 5	Surface C	asing:	1500		D	eep surf		_	
Under Fresh Water	Federal Jurisdiction: N Supply Well Drilled: N	lo lo	78	Surface C	Casing:		or disposal of Drill	D ing Flui	eep surf: ds:	ace casing	g has b	
Under Fresh Water	Federal Jurisdiction: N	lo lo	78 5	Surface C	Casing:	Approved Method f	or disposal of Drill	D ing Flui	eep surf: ds: MIT)	ace casing	g has b	een approv
Under Fresh Water	Federal Jurisdiction: N Supply Well Drilled: N Water used to Drill: Y	lo lo	78 5	Surface C	Casing:	Approved Method f D. One time land ap H. (Other)	or disposal of Drill	D ing Flui ES PER	eep surf: ds: MIT)	ace casing	g has b	een approv
Under Fresh Water Surface	Federal Jurisdiction: N Supply Well Drilled: N Water used to Drill: Y	lo lo ′es			Casing:	Approved Method f D. One time land ap H. (Other)	or disposal of Drill plication (REQUIR pry of Pit: C	D ing Flui ES PER	eep surf: ds: MIT)	ace casing	g has b	een approv
Under Fresh Water Surface PIT 1 INFORI Type of F	Federal Jurisdiction: N Supply Well Drilled: N Water used to Drill: Y	lo lo ′es Closed System			Casing:	Approved Method f D. One time land ap H. (Other) Catego Liner not required	or disposal of Drill plication (REQUIR pry of Pit: C	D ing Flui ES PER SEE ME	eep surfa ds: MIT)	ace casing	g has b	een approv
Under Fresh Water Surface PIT 1 INFORI Type of F Type of Mu	Federal Jurisdiction: N Supply Well Drilled: N Water used to Drill: Y MATION Pit System: CLOSED	lo lo ′es Closed System			Casing:	Approved Method f D. One time land ap H. (Other) Catego Liner not required Pit Lo	or disposal of Drill plication (REQUIR pry of Pit: C for Category: C	D ing Fluid EES PER SEE ME	eep surfa ds: MIT)	ace casing	g has b	een approv
Under Fresh Water Surface PIT 1 INFORI Type of F Type of Mu Chlorides Max: 80	Federal Jurisdiction: N Supply Well Drilled: N Water used to Drill: Y MATION Pit System: CLOSED ud System: WATER B/	lo lo res Closed System ASED	Means Steel Pits		Casing:	Approved Method f D. One time land ap H. (Other) Catego Liner not required Pit Lo	or disposal of Drill plication (REQUIR pry of Pit: C for Category: C cation is: AP/TE [D ing Fluid EES PER SEE ME	eep surfa ds: MIT)	ace casing	g has b	een approv
Under Fresh Water Surface PIT 1 INFORI Type of M Chlorides Max: 80 Is depth to	Federal Jurisdiction: N Supply Well Drilled: N Water used to Drill: Y MATION Pit System: CLOSED ud System: WATER B 000 Average: 5000 top of ground water great mile of municipal water w	lo lo 'es Closed System ASED ater than 10ft be vell? N	Means Steel Pits		Casing:	Approved Method f D. One time land ap H. (Other) Catego Liner not required Pit Lo	or disposal of Drill plication (REQUIR pry of Pit: C for Category: C cation is: AP/TE [D ing Fluid EES PER SEE ME	eep surfa ds: MIT)	ace casing	g has b	een approv
Under Fresh Water Surface PIT 1 INFORI Type of M Chlorides Max: 80 Is depth to Within 1 m	Federal Jurisdiction: N Supply Well Drilled: N Water used to Drill: Y MATION Pit System: CLOSED ud System: WATER B 000 Average: 5000 top of ground water great nile of municipal water w Wellhead Protection A	lo lo ćes Closed System ASED ater than 10ft be vell? N rea? N	Means Steel Pits		Casing:	Approved Method f D. One time land ap H. (Other) Catego Liner not required Pit Lo	or disposal of Drill plication (REQUIR pry of Pit: C for Category: C cation is: AP/TE [D ing Fluid EES PER SEE ME	eep surfa ds: MIT)	ace casing	g has b	een approv
Under Fresh Water Surface PIT 1 INFORI Type of F Type of Mu Chlorides Max: 80 Is depth to Within 1 m	Federal Jurisdiction: N Supply Well Drilled: N Water used to Drill: Y MATION Pit System: CLOSED ud System: WATER B 000 Average: 5000 top of ground water great mile of municipal water w	lo lo ćes Closed System ASED ater than 10ft be vell? N rea? N	Means Steel Pits		Casing:	Approved Method f D. One time land ap H. (Other) Catego Liner not required Pit Lo	or disposal of Drill plication (REQUIR pry of Pit: C for Category: C cation is: AP/TE [D ing Fluid EES PER SEE ME	eep surfa ds: MIT)	ace casing	g has b	een approv
Under Fresh Water Surface PIT 1 INFORI Type of Mu Chlorides Max: 80 Is depth to Within 1 m	Federal Jurisdiction: N Supply Well Drilled: N Water used to Drill: Y MATION Pit System: CLOSED ud System: WATER B, 000 Average: 5000 top of ground water great nile of municipal water w Wellhead Protection A bocated in a Hydrologically	lo lo ćes Closed System ASED ater than 10ft be vell? N rea? N	Means Steel Pits		Casing:	Approved Method f D. One time land ap H. (Other) Catego Liner not required Pit Lo Pit Location Fo	or disposal of Drill plication (REQUIR pry of Pit: C for Category: C cation is: AP/TE [D ing Fluid EES PER SEE ME	eep surfa ds: MIT)	ace casing	g has b	een approv
Under Fresh Water Surface PIT 1 INFORI Type of Mu Chlorides Max: 80 Is depth to Within 1 m Pit <u>is</u> lo	Federal Jurisdiction: N Supply Well Drilled: N Water used to Drill: Y MATION Pit System: CLOSED ud System: WATER B, 000 Average: 5000 top of ground water great nile of municipal water w Wellhead Protection A bocated in a Hydrologically	lo lo 'es Closed System ASED ater than 10ft be vell? N rea? N y Sensitive Area	Means Steel Pits Now base of pit?	Y	Casing:	Approved Method f D. One time land ap H. (Other) Catego Liner not required Pit Lo Pit Location Fo	or disposal of Drill plication (REQUIR ory of Pit: C for Category: C cation is: AP/TE I rrmation: TERRA	D ing Fluid EES PER SEE ME	eep surfa ds: MIT)	ace casing	g has b	een approv
Under Fresh Water Surface PIT 1 INFORI Type of M Chlorides Max: 80 Is depth to Within 1 m Pit <u>is</u> lo PIT 2 INFORI Type of F	Federal Jurisdiction: N Supply Well Drilled: N Water used to Drill: Y MATION Pit System: CLOSED ud System: WATER B, 000 Average: 5000 top of ground water greating mile of municipal water w Wellhead Protection And water of a Hydrologically MATION	lo lo r'es Closed System ASED ater than 10ft be vell? N rea? N y Sensitive Area	Means Steel Pits Now base of pit?	Y	Casing:	Approved Method f D. One time land ap H. (Other) Catege Liner not required Pit Location Fo Dit Location Fo Catege Liner not required	or disposal of Drill plication (REQUIR ory of Pit: C for Category: C cation is: AP/TE I rrmation: TERRA	D ing Fluid EES PER SEE ME DEPOSIT CE	eep surfa ds: MIT) :MO	ace casing	g has b	een approv
Under Fresh Water Surface PIT 1 INFORI Type of F Type of Mu Chlorides Max: 80 Is depth to 1 Within 1 m Pit <u>is</u> lo PIT 2 INFORI Type of F Type of Mu	Federal Jurisdiction: N Supply Well Drilled: N Water used to Drill: Y MATION Pit System: CLOSED ud System: WATER B, 000 Average: 5000 top of ground water greating mile of municipal water w Wellhead Protection And weated in a Hydrologically MATION Pit System: CLOSED	lo lo res Closed System ASED ater than 10ft be vell? N rea? N y Sensitive Area Closed System D	Means Steel Pits Now base of pit?	Y	Casing:	Approved Method f D. One time land ap H. (Other) Categr Liner not required Pit Location Fo Dit Location Fo Categr Liner not required Pit Lo	or disposal of Drill plication (REQUIR for Category: C cation is: AP/TE I prmation: TERRA orrmation: C for Category: C	DEPOSIT	eep surfa ds: MIT) :MO	ace casing	g has b	een approv
Under Fresh Water Surface PIT 1 INFORI Type of M Chlorides Max: 80 Is depth to Within 1 n Pit <u>is</u> lo PIT 2 INFORI Type of M Type of M Chlorides Max: 30	Federal Jurisdiction: N Supply Well Drilled: N Water used to Drill: Y MATION Pit System: CLOSED ud System: WATER B/ 000 Average: 5000 top of ground water greating mile of municipal water w Wellhead Protection Arti- ocated in a Hydrologically MATION Pit System: CLOSED ud System: OIL BASEI	lo lo 'es Closed System ASED ater than 10ft be vell? N rea? N y Sensitive Area Closed System D	Means Steel Pits Now base of pit?	Y	Casing:	Approved Method f D. One time land ap H. (Other) Categr Liner not required Pit Location Fo Dit Location Fo Categr Liner not required Pit Lo	or disposal of Drill plication (REQUIR for Category: C cation is: AP/TE D prmation: TERRAD	DEPOSIT	eep surfa ds: MIT) :MO	ace casing	g has b	een approv
Under Fresh Water Surface PIT 1 INFORI Type of M Chlorides Max: 80 Is depth to Within 1 m Pit <u>is</u> lo PIT 2 INFORI Type of M Chlorides Max: 30 Is depth to	Federal Jurisdiction: N Supply Well Drilled: N Water used to Drill: Y MATION Pit System: CLOSED ud System: WATER B/ 000 Average: 5000 top of ground water great nile of municipal water w Wellhead Protection Ar ocated in a Hydrologically MATION Pit System: CLOSED ud System: OIL BASEI 00000 Average: 200000	lo lo 'es Closed System ASED ater than 10ft be vell? N rea? N y Sensitive Area Closed System D ater than 10ft be	Means Steel Pits Now base of pit?	Y	Casing:	Approved Method f D. One time land ap H. (Other) Categr Liner not required Pit Location Fo Dit Location Fo Categr Liner not required Pit Lo	or disposal of Drill plication (REQUIR for Category: C cation is: AP/TE D prmation: TERRAD	DEPOSIT	eep surfa ds: MIT) :MO	ace casing	g has b	een approv
Under Fresh Water Surface PIT 1 INFORI Type of M Chlorides Max: 80 Is depth to Within 1 m Pit <u>is</u> lo PIT 2 INFORI Type of M Chlorides Max: 30 Is depth to	Federal Jurisdiction: N Supply Well Drilled: N Water used to Drill: Y MATION Pit System: CLOSED ud System: WATER B 000 Average: 5000 top of ground water great nile of municipal water w Wellhead Protection Au ocated in a Hydrologically MATION Pit System: CLOSED ud System: OIL BASEI 00000 Average: 200000 top of ground water great	lo lo 'es Closed System ASED ater than 10ft be vell? N rea? N y Sensitive Area Closed System D ater than 10ft be vell? N	Means Steel Pits Now base of pit?	Y	Casing:	Approved Method f D. One time land ap H. (Other) Categr Liner not required Pit Location Fo Dit Location Fo Categr Liner not required Pit Lo	or disposal of Drill plication (REQUIR for Category: C cation is: AP/TE D prmation: TERRAD	DEPOSIT	eep surfa ds: MIT) :MO	ace casing	g has b	een approv

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.

MULTI UNIT HOLE 1					
Section: 36 Township:	15N Rar	nge: 14W Meridia	in: IM	Total Length:	10329
County:	CUSTER			Measured Total Depth:	25000
Spot Location of End Point:	NE NW	NE NE		True Vertical Depth:	15000
Feet From:	NORTH	1/4 Section Line: 65		End Point Location from	
Feet From:	EAST	1/4 Section Line: 80	5	Lease, Unit, or Property Line:	65

NOTES:	
Category	Description
DEEP SURFACE CASING	[10/20/2022 - GC2] - APPROVED; (1) NOTIFY OCC FIELD INSPECTOR IMMEDIATELY OF ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON ANY CONDUCTOR OR SURFACE CASING. (2) SUBSEQUENT WELLS ON SAME PAD WILL NOT BE ALLOWED DEEP SURFACE CASING IN THE EVENT OF ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON ANY CONDUCTOR OR SURFACE CASING.
HYDRAULIC FRACTURING	[10/20/2022 - 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 FRACTURING OPERATIONS. FORM 6000NHF SHALL BE FOUND HERE: HTTPS://OKLAHOMA.GOV/OCC/DIVISIONS/OIL-GAS/OGCD-FORMS; 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
LOCATION EXCEPTION - 726938	[12/9/2022 - G56] - (I.O.) 1-14N-14W & 36-15N-14W X677825/689129 WDFD, OTHER COMPL INT (1-14N-14W) NCT 165' FSL, NCT 0' FNL, NCT 660' FEL COMPL INT (36-15N-14W) NCT 0' FSL, NCT 165' FNL, NCT 660' FEL NO OP NAMED 7/15/2022
МЕМО	[10/20/2022 - GC2] - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT
SPACING - 677825	[12/9/2022 - G56] - (640)(HOR) 36-15N-14W & 1-14N-14W EST WDFD, OTHER COMPL INT NCT 165' FNL & FSL, NCT 330' FEL & FWL
SPACING - 689129	[12/9/2022 - G56] - (640)(HOR) 36-15N-14W & 1-14N-14W CONFIRM 677825 WDFD, OTHERS
SPACING - 727645	[12/9/2022 - G56] - (I.O.) 1-14N-14W & 36-15N-14W EST MULTIUNIT HORIZONTAL WELL X677825/689129 WDFD, OTHER 50% 1-14N-14W 50% 36-15N-14W NO OP NAMED 8/16/2022
SURFACE CASING	[10/20/2022 - GC2] - MIN. 500' PER ORDER 42589