API NUMBER: 017 25687 A

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

Approval Date: 06/16/2021

Expiration Date: 12/16/2022

Horizontal Hole Oil & Gas

Amend reason: CHANGE BHL

AMEND PERMIT TO DRILL

WELL LOCATION:	Section: 04	Township: 12N	Range: 7W C	ounty: CANADIA	N						
SPOT LOCATION:	NE NW NW	NW FEE	T FROM QUARTER: FROM N	IORTH FROM	WEST						
			SECTION LINES: 28	87	514						
Lease Name:	SOUTHERN STAR 33-	13N-7W	Well No: 6	мн	W	ell will be	287	feet from ne	earest unit	or lease boundary	·.
Operator Name:	PALOMA OPERATING	CO INC	Telephone: 7	136508509				OTC/0	OCC Numb	per: 23932 ()
PALOMA OPERATING CO INC				MA	CK CLAYTON/MC	CVEDA, L	.LC				
1100 LOUISA	NA ST STE 5100			133	1333 SOUTH NELMS DRIVE						
HOUSTON,		TX 7700	02-5220	мс	ISTANG			ОК	73064		
Formation(s)	(Permit Valid for L	isted Formatio	ns Only).								
Name	(1 Citille Valid for E	Code	Depth								
1 MISSISSIPF	PIAN	359MSSP	8900								
	141058			n Orders: 7184			Inore	eased Densi	hu Ordoro:	705964	
. 0			Location Exceptio	in Orders. 716	:30		more	cased Densi	ty Orders.	715265	
						_		Cassi	al Ordana		
Pending CD Number	ers: No Pending	9	Working intere	est owners' notifie	d: ***			Specia	al Orders:	No Special	
Total Depth: 1	7000 Ground	Elevation: 1320	Surface Ca	sing: 550		Depth to	base of	Treatable W	ater-Bearino	g FM: 300	
Under	Federal Jurisdiction: No)		App	oved Method for dispo	sal of Drillin	na Fluids	s:			
Fresh Water Supply Well Drilled: No					D. One time land application (REQUIRES PERMIT) PERMIT NO: 21-37650						
Surface	e Water used to Drill: No)		H. (C	Other)	8	SEE MEM	ИО			
PIT 1 INFOR		Slaced Custom Mass	as Ctaal Dita	Lin	Category of Pit: C						
	Pit System: CLOSED (ud System: WATER BA		is Steel Fits	LIIR	Liner not required for Category: C Pit Location is: ALLUVIAL						
	000 Average: 3000	OLD			Pit Location Formation: ALLUVIUM						
	-	er than 10ft below b	ase of pit? Y								
Is depth to top of ground water greater than 10ft below base of pit? Y Within 1 mile of municipal water well? Y											
	Wellhead Protection Are										
Pit <u>is</u> lo	ocated in a Hydrologically	Sensitive Area.									
PIT 2 INFOR	MATION				Category of Pit	t: C					
Type of Pit System: CLOSED Closed System Means Steel Pits				Line	Liner not required for Category: C						
Type of Mud System: OIL BASED					Pit Location is: ALLUVIAL						
Chlorides Max: 300000 Average: 200000					Pit Location Formation	: ALLUVIU	JM				
Is depth to top of ground water greater than 10ft below base of pit? Y											
Within 1 i	mile of municipal water we	ell? Y									
	Wellhead Protection Are	ea? Y									
Pit <u>is</u> lo	ocated in a Hydrologically	Sensitive Area.									

HORIZONTAL HOLE 1

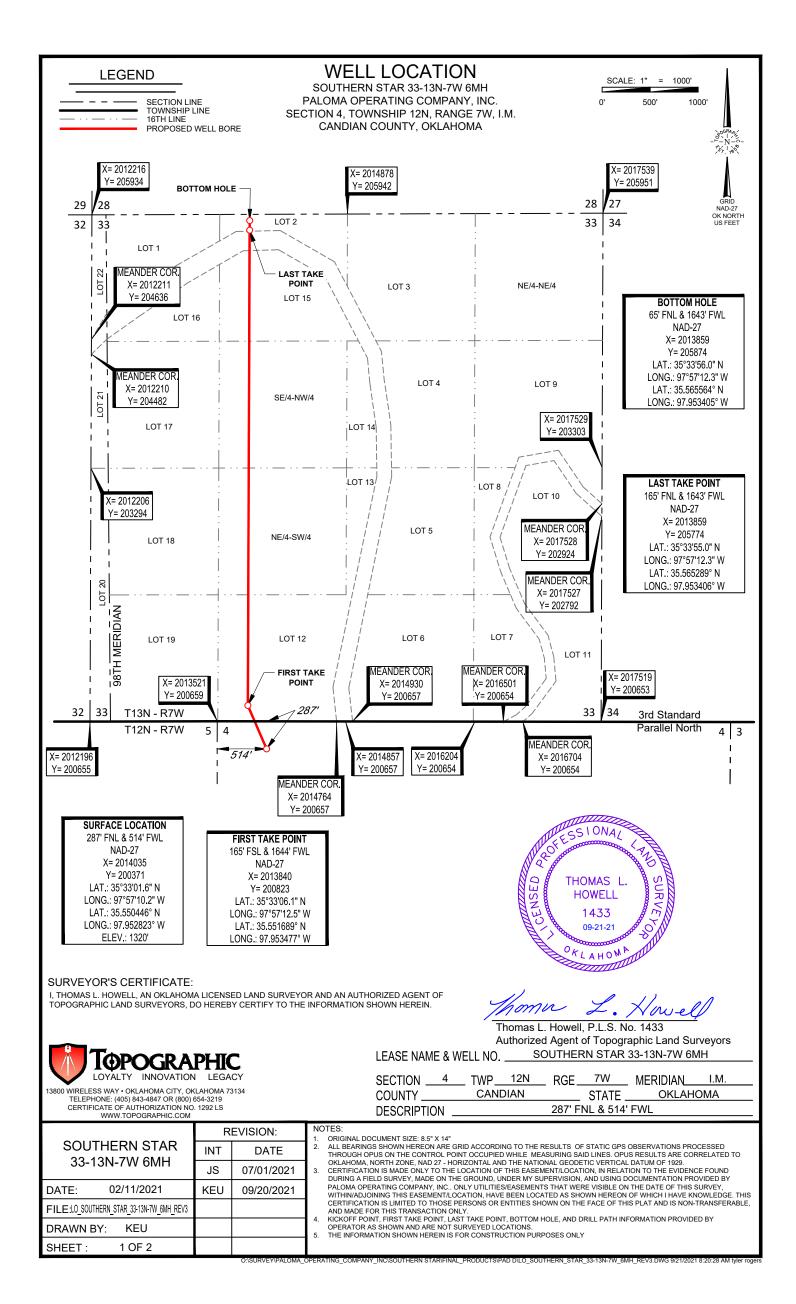
Section: 33 Township: 13N Range: 7W Meridian: IM Total Length: 5200

County: CANADIAN Measured Total Depth: 17000

Spot Location of End Point: NW NW NE NW True Vertical Depth: 9500

Feet From: NORTH 1/4 Section Line: 65 End Point Location from
Feet From: WEST 1/4 Section Line: 1643 Lease,Unit, or Property Line: 65

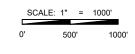
NOTES:					
Category	Description				
HYDRAULIC FRACTURING	[6/14/2021 - GC2] - OCC 165:10-3-10 REQUIRES:				
	1) NOTICE SHALL BE GIVEN AT LEAST 5 BUSINESS DAYS PRIOR TO COMMENCEMENT OF HYDRAULIC FRACTURING OPERATIONS ON A HORIZONTAL WELL TO OPERATORS PRODUCING WELLS WITHIN 1 MILE OF THE COMPLETION INTERVAL 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				
INCREASED DENSITY - 705964	[6/15/2021 - GC2] - 33-13N-7W X141058 MSSP 5 WELLS PALOMA OPERATING CO, INC 12-5-2019				
INCREASED DENSITY - 715265	[6/15/2021 - GC2] - EXT OF TIME FOR ORDER 705964 UNTIL 12-5-2021				
LOCATION EXCEPTION - 718456	[6/15/2021 - GC2] - (I.O.) 33-13N-7W X141058 MSSP X165:10-3-28(C)(2)(B) MAY BE CLOSER THAN 600' TO LOTTIE JONES 33-4 COMPL. INT. NCT 165' FSL, NCT 165' FNL, NCT 450' FWL PALOMA OPERATING COMPANY 5-20-2021				
MEMO	[6/14/2021 - GC2] - CLOSED SYSTEM=STEEL PITS (REQUIRED - NORTH CANADIAN RIVER), OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT				
PUBLIC WATER SUPPLY	[6/14/2021 - GC2] - EL RENO - 19 WELLS W/2 33-13N-7W				
SPACING - 141058	[6/15/2021 - GC2] - (640) 33-13N-7W EXT OTHERS EXT 124533 MSSP				
SURFACE CASING	[6/14/2021 - GC2] - NO DEEP SURFACE CASING DUE TO BEING INSIDE PUBLIC WATER SUPPLY BOUNDARY				

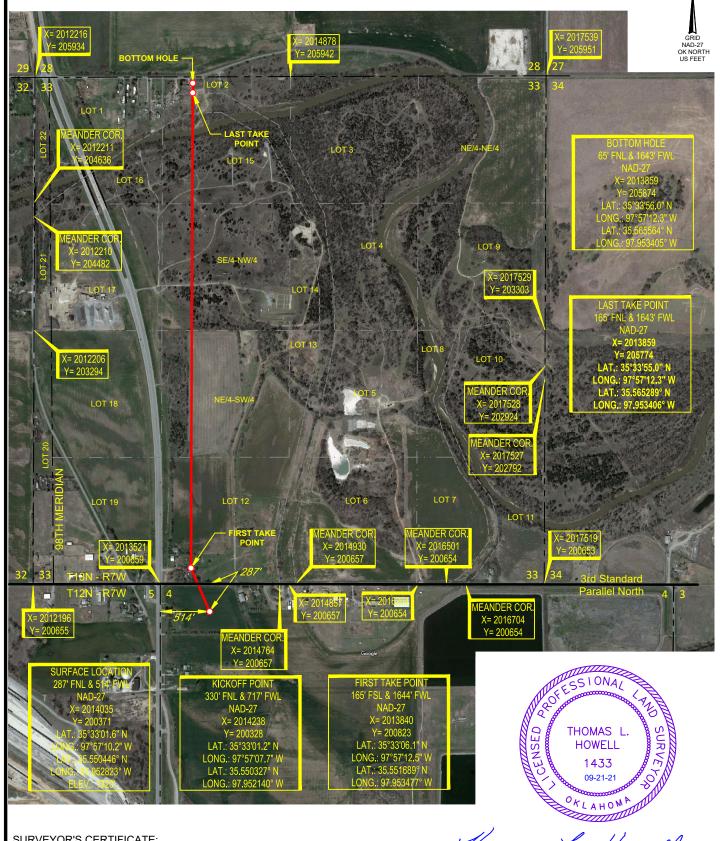


LEGEND SECTION LINE TOWNSHIP LINE 16TH LINE PROPOSED WELL BORE

WELL LOCATION

SOUTHERN STAR 33-13N-7W 6MH PALOMA OPERATING COMPANY, INC. SECTION 4, TOWNSHIP 12N, RANGE 7W, I.M. CANDIAN COUNTY, OKLAHOMA





SURVEYOR'S CERTIFICATE:

I, THOMAS L. HOWELL, AN OKLAHOMA LICENSED LAND SURVEYOR AND AN AUTHORIZED AGENT OF TOPOGRAPHIC LAND SURVEYORS, DO HEREBY CERTIFY TO THE INFORMATION SHOWN HEREIN.

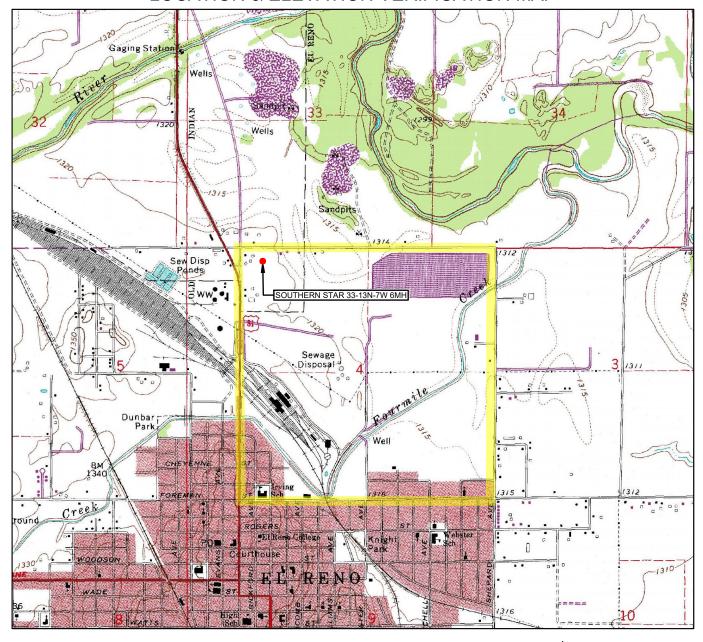
Thomas L. Howell, P.L.S. No. 1433

Authorized Agent of Topographic Land Surveyors SOUTHERN STAR 33-13N-7W 6MH LEASE NAME & WELL NO.

TOPOGRAPHIC LOYALTY INNOVATION LEGACY SECTION 4 TWP 12N RGE_{-} 7W _ MERIDIAN_ 13800 WIRELESS WAY • OKLAHOMA CITY, OKLAHOMA 73134
TELEPHONE: (405) 843-4847 OR (800) 654-3219
CERTIFICATE OF AUTHORIZATION NO. 1292 LS
WWW.TOPOGRAPHIC.COM CANDIAN OKLAHOMA STATE COUNTY_ 287' FNL & 514' FWL **DESCRIPTION**

	REVISION:		OTES: ORIGINAL DOCUMENT SIZE: 8.5" X 14"
SOUTHERN STAR	INT	DATE	ALL BEARINGS SHOWN HEREON ARE GRID ACCORDING TO THE RESULTS OF STATIC GPS OBSERVATIONS PROCESSED THROUGH OPUS ON THE CONTROL POINT OCCUPIED WHILE MEASURING SAID LINES. OPUS RESULTS ARE CORRELATED TO OKLAHOMA, NORTH ZONE, NAD 27 - HORIZONTAL AND THE NATIONAL GEODETIC VERTICAL DATUM OF 1929. CERTIFICATION IS MADE ONLY TO THE LOCATION OF THIS EASEMENT/LOCATION, IN RELATION TO THE EVIDENCE FOUND DURING A FIELD SURVEY, MADE ON THE GROUND. UNDER MY SUPERVISION, AND USING DOCUMENTATION PROVIDED BY
33-13N-7W 6MH	JS	07/01/2021	
DATE: 02/11/2021	KEU	09/20/2021	PALOMA OPERATING COMPANY, INC ONLY UTILITIES/EASEMENTS THAT WERE VISIBLE ON THE DATE OF THIS SURVEY, WITHIN/ADJOINING THIS EASEMENT/LOCATION, HAVE BEEN LOCATED AS SHOWN HEREON OF WHICH I HAVE KNOWLEDGE. THIS
FILE:LO_SOUTHERN_STAR_33-13N-7W_6MH_REV3			CERTIFICATION IS LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE, AND MADE FOR THIS TRANSACTION ONLY.
DRAWN BY: KEU			KICKOFF POINT, FIRST TAKE POINT, LAST TAKE POINT, BOTTOM HOLE, AND DRILL PATH INFORMATION PROVIDED BY OPERATOR AS SHOWN AND ARE NOT SURVEYED LOCATIONS. THE INFORMATION SHOWN HEREIN IS FOR CONSTRUCTION PURPOSES ONLY
SHEET: 2 OF 2			

LOCATION & ELEVATION VERIFICATION MAP



LEASE NAME & WELL NO. SOUTHERN STAR 33-13N-7W 6MH

 SECTION
 4
 TWP
 12N
 RGE
 7W
 MERIDIAN
 I.M.

 COUNTY
 CANDIAN
 STATE
 OKLAHOMA

 DESCRIPTION
 287' FNL & 514' FWL

 ELEVATION
 1320'

SCALE: 1" = 2000'

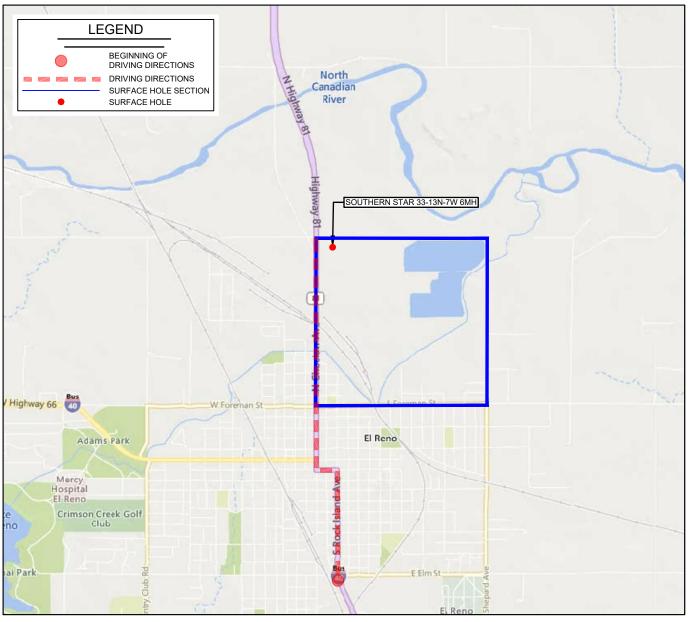
THIS EASEMENT/SERVITUDE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY PALOMA OPERATING COMPANY, INC.. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.

ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID BASED UPON THE OKLAHOMA STATE PLANE COORDINATE SYSTEM, NORTH ZONE OF THE NORTH AMERICAN DATUM 1927, U.S. SURVEY FEET AND THE NATIONAL GEODETIC VERTICAL DATUM OF 1929.



13800 WIRELESS WAY • OKLAHOMA CITY, OKLAHOMA 73134 TELEPHONE: (405) 843-4647 OR (800) 654-3219 CERTIFICATE OF AUTHORIZATION NO. 1292 LS WWW.TOPOGRAPHIC.COM

VICINITY MAP



LEASE NAME & WELL NO.	S0	SOUTHERN STAR 33-13N-7W 6MH							
SECTION4 TWP COUNTY CAND			MERIDIAN OKLAHO						
DESCRIPTION 287' FNL & 514' FWL									
DISTANCE & DIRECTION									
FROM EL RENO, OK, GO ±2.0 MI. NORTH ON US-81 TO THE									
NORTHWEST CORNER OF SECTION 4-T12N-R7W.									

THIS EASEMENT/SERVITUDE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY PALOMA OPERATING COMPANY, INC.. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.

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