



RAILROAD COMMISSION OF TEXAS

Form W-2

1701 N. Congress  
P.O. Box 12967  
Austin, Texas 78701-2967

Status: Approved  
Date: 06/07/2023  
Tracking No.: 290818

OIL WELL POTENTIAL TEST, COMPLETION OR RECOMPLETION REPORT,

OPERATOR INFORMATION			
Operator	PDEH LLC	Operator	646827
Operator	600 W ILLINOIS AVE MIDLAND, TX 79701-		

WELL INFORMATION			
API	42-495-33705	County:	WINKLER
Well No.:	1503H	RRC District	08
Lease	UL 20 SPINNER A	Field	PHANTOM (WOLFCAMP)
RRC Lease	57946	Field No.:	71052900
Location	Section: 15, Block: 20, Survey: UL, Abstract: U16		
Latitude	31	Longitud	-103
This well is 9.5 miles in a SW direction from WINK, which is the nearest town in the			

FILING INFORMATION			
Purpose of	Well Record Only		
Type of	Other/Recompletion		
Well Type:	Producing	Completion or Recompletion	10/28/2016
Type of Permit	Date	Permit No.	
Permit to Drill, Plug Back, or Rule 37 Exception	05/10/2023	890165	
Fluid Injection			
O&G Waste Disposal			
Other:	05/10/2023	890165	

COMPLETION INFORMATION			
Spud	07/25/2016	Date of first production after rig	10/28/2016
Date plug back, deepening, drilling operation	06/25/2016	Date plug back, deepening, recompletion, drilling operation	07/25/2016
Number of producing wells on this lease this field (reservoir) including this	6	Distance to nearest well in lease & reservoir	287.0
Total number of acres in	1441.58	Elevation	2779 GR
Total depth TVD	11990	Total depth MD	20050
Plug back depth TVD		Plug back depth MD	
Was directional survey made other inclination (Form W-	Yes	Rotation time within surface casing Is Cementing Affidavit (Form W-15)	86.0 No
Recompletion or	Yes	Multiple	No
Type(s) of electric or other log(s)	Gamma Ray (MWD)		
Electric Log Other Description:			
Location of well, relative to nearest lease of lease on which this well is	3181.0 Feet from the	Off Lease :	No
	2098.0 Feet from the	NW Line and	
		SW Line of the	
		UL 20 SPINNER A Lease.	

FORMER FIELD (WITH RESERVOIR) & GAS ID OR OIL LEASE NO.			
Field & Reservoir	Gas ID or Oil Lease	Well No.	Prior Service Type
PACKET:	N/A		

W2:	N/A		
FOR NEW DRILL OR RE-ENTRY, SURFACE CASING DEPTH DETERMINED BY:			
GAU Groundwater Protection Determination	Depth	300.0	Date 01/27/2016
SWR 13 Exception	Depth	5001.0	

INITIAL POTENTIAL TEST DATA FOR NEW COMPLETION OR RECOMPLETION			
Date of		Production	
Number of hours	24	Choke	
Was swab used during this	No	Oil produced prior to	
PRODUCTION DURING TEST PERIOD:			
Oil		Gas	
Gas - Oil	0	Flowing Tubing	
Water			
CALCULATED 24-HOUR RATE			
Oil		Gas	
Oil Gravity - API - 60.:		Casing	
Water			

CASING RECORD											
Ro	Type of Casing	Casing	Hole	Setting	Multi -	Multi -	Cement	Cement	Slurry	Top of	TOC
		Size (in.)	Size	Depth	Stage Tool	Stage Shoe	Class	Amoun	Volume (cu.	Cement (ft.)	Determined By
1	Surface	12 1/4	9 5/8	5030	498		C	3180	5723.0	0	Circulated to Surface
2	Intermediate	8 3/4	7	12363			H	790	1702.0	4030	Calculation

LINER RECORD									
<u>Ro</u>	<u>Liner Size</u>	<u>Hole Size</u>	<u>Liner Top</u>	<u>Liner Bottom</u>	<u>Cement Class</u>	<u>Cement Amoun</u>	<u>Slurry Volume (cu.</u>	<u>Top of Cement (ft.)</u>	<u>TOC Determined</u>
1	4 1/2	6 1/8	11409	20050	50/50 POZ	790	982.0	11409	Calculation

TUBING RECORD			
<u>Ro</u>	<u>Size (in.)</u>	<u>Depth</u>	<u>Size (ft.)</u>
1	2 7/8	11367	
			<u>Packer Depth (ft.)/Type</u>
			11342 / 7" VERSASET HES

PRODUCING/INJECTION/DISPOSAL INTERVAL			
<u>Ro</u>	<u>Open hole?</u>	<u>From (ft.)</u>	<u>To (ft.)</u>
1	No	L1 12318	19815.0

ACID, FRACTURE, CEMENT SQUEEZE, CAST IRON BRIDGE PLUG, RETAINER, ETC.			
Was hydraulic fracturing treatment	No		
Is well equipped with a downhole sleeve?	No	If yes, actuation pressure	
Production casing test pressure (PSIG) during hydraulic fracturing		Actual maximum pressure (PSIG) during fracturin	
Has the hydraulic fracturing fluid disclosure been	No		
<u>Ro</u>	<u>Type of Operation</u>	<u>Amount and Kind of Material Used</u>	<u>Depth Interval (ft.)</u>

FORMATION RECORD					
Formations	Encountere	Depth TVD	Depth MD	Is formation	Remarks
RUSTLER - POSSIBLE FLOW; POSSIBLE USABLE QUALITY W COLBY-QUEEN	Yes	804.0	804.0	Yes	
YATES	No			No	FORMATION IS NOT GEOLOGICALLY PRESENT
QUEEN-SEVEN RIVERS	No			No	FORMATION IS NOT GEOLOGICALLY PRESENT
SAN ANDRES - HIGH FLOWS, H2S, CORROSIVE	No			No	FORMATION IS NOT GEOLOGICALLY PRESENT
HOLT	No			No	FORMATION IS NOT GEOLOGICALLY PRESENT
DELAWARE	Yes	5091.0	5108.0	Yes	
GLORIETA	No			No	FORMATION IS NOT GEOLOGICALLY PRESENT
CLEARFORK	No			No	FORMATION IS NOT GEOLOGICALLY PRESENT
WICHITA ALBANY	No			No	FORMATION IS NOT GEOLOGICALLY PRESENT
BRUSHY CANYON	Yes	7400.0	7418.0	Yes	
CHERRY CANYON	Yes	6104.0	6121.0	Yes	
CANYON	No			No	FORMATION IS NOT GEOLOGICALLY PRESENT
BONE SPRINGS	Yes	8779.0	8797.0	Yes	
MONTOYA	No			No	FORMATION IS NOT GEOLOGICALLY PRESENT
WADDELL	No			No	FORMATION IS NOT GEOLOGICALLY PRESENT
WOLFCAMP	Yes	11761.0	11811.0	Yes	
ATOKA	No			No	BELOW TD
STRAWN	No			No	BELOW TD
PENNSYLVANIAN	No			No	BELOW TD
MISSISSIPPIAN	No			No	BELOW TD
DEVONIAN	No			No	BELOW TD
SILURIAN	No			No	BELOW TD
FUSSELMAN	No			No	BELOW TD
ELLENBURGER	No			No	BELOW TD
Do the producing interval of this well produce H2S with a concentration in excess of 100 ppm					No
Is the completion being downhole commingled			No		

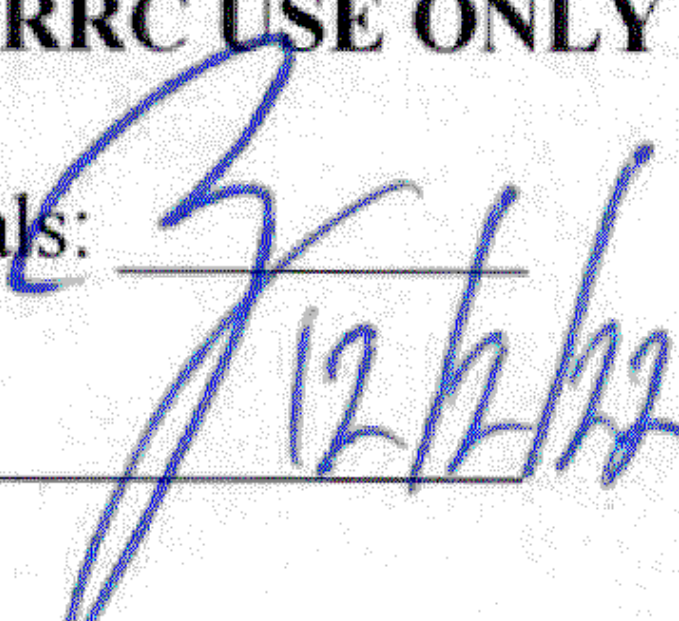
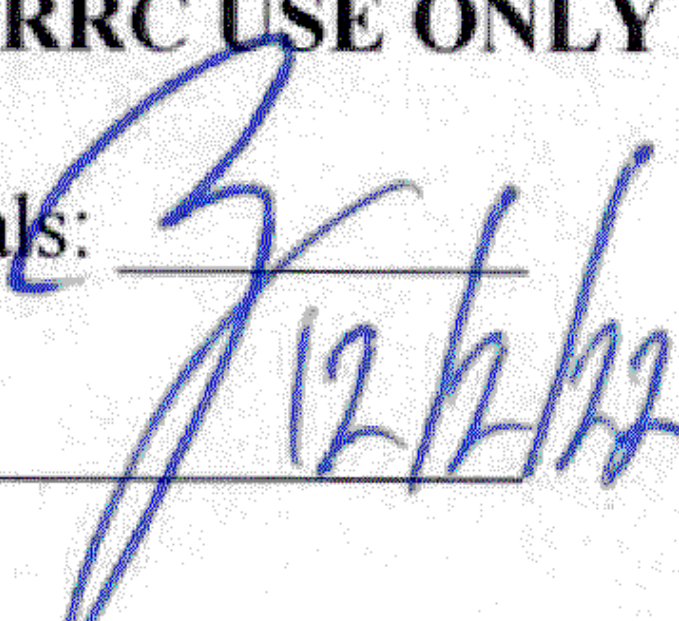
REMARKS
KOP @ 11503'. DEPTHS PROVIDED ARE REFERENCED AT KB @ 26'. WELL CHANGED FROM POOLED TO PSA. NO WELLBORE CHANGES.

RRC REMARKS	
<b>PUBLIC COMMENTS:</b> [RRC Staff 2023-05-12 10:45:58.379] EDL=7497 feet, max acres=704, PHANTOM (WOLFCAMP) oil or gas well	
<b>CASING RECORD :</b>	
<b>TUBING RECORD:</b>	
<b>PRODUCING/INJECTION/DISPOSAL INTERVAL :</b>	
<b>ACID, FRACTURE, CEMENT SQUEEZE, CAST IRON BRIDGE PLUG, RETAINER, ETC. :</b>	
<b>POTENTIAL TEST DATA:</b>	

OPERATOR'S CERTIFICATION			
Printed	Kayla McConnell	Title:	Regulatory Coordinator
Telephone	(432) 818-2313	Date	05/10/2023



CERTIFICATE OF COMPLIANCE  
AND TRANSPORTATION AUTHORITY  
REFER TO INSTRUCTIONSForm P-4  
06/21

1. Field name exactly as shown on proration schedule Phantom (Wolfcamp)		2. Lease name as shown on proration schedule UL 20 Spinner A					
3. Current operator name exactly as shown on P-5 Organization Report PDEH LLC		4. Operator P-5 no. 646827	5. Oil Lse/Gas ID no. 57946	6. County Winkler	7. RRC District 08		
8. Operator address including city, state, and zip code 600 W. Illinois Midland, TX 79701		9. Well no(s) (see instruction E) 1503H					
		10. Classification <input checked="" type="checkbox"/> Oil <input type="checkbox"/> Gas <input type="checkbox"/> Other (see instruction A)		11. Effective Date 08/01/22			
12. Purpose of Filing. (See instructions B and G)							
a. Change of: <input type="checkbox"/> operator <input type="checkbox"/> oil or condensate gatherer <input type="checkbox"/> gas gatherer <input type="checkbox"/> gas purchaser <input type="checkbox"/> gas purchaser system code <input type="checkbox"/> field name from: _____ Docket #: _____ <input checked="" type="checkbox"/> lease name from: UNIVERSITY 20 PW UNIT 1503H							
b. New RRC Number for: <input checked="" type="checkbox"/> oil lease <input type="checkbox"/> gas well <input type="checkbox"/> other well (specify) _____ Due to: <input type="checkbox"/> new completion or recompletion <input type="checkbox"/> reclass oil to gas <input type="checkbox"/> reclass gas to oil <input type="checkbox"/> consolidation <input type="checkbox"/> unitization <input checked="" type="checkbox"/> subdivision (oil lease only) <input type="checkbox"/> field transfer							
13. Authorized GAS WELL GAS or CASINGHEAD GAS Gatherer(s) and/or Purchaser(s). (See instruction G).							
Gatherer	Purchaser	Name of GAS WELL GAS or CASINGHEAD GAS Gatherer(s) or Purchaser(s) As Indicated in Columns to the Left (Attach an additional sheet in same format if more space is needed)			Purchaser's RRC Assigned System Code	Percent of Take	Full-well Stream
X	X	Brazos Midstream Operating (089903)			0001	100	
14. Authorized OIL or CONDENSATE Gatherer(s). (See instruction G).				RRC USE ONLY			
Name of OIL or CONDENSATE Gatherer(s) - List Highest Volume Gatherer First (Attach an additional sheet in same format if more space is needed)			Percent of Take	Reviewer's initials: 			
Plains Marketing L.P. (667883)			100	Approval date: 			
15. PREVIOUS OPERATOR CERTIFICATION FOR CHANGE OF OPERATOR P-4 FILING. Being the PREVIOUS OPERATOR, I certify that operating responsibility for the well(s) designated in this filing, located on the subject lease has been transferred in its entirety to the above named Current Operator. I understand, as Previous Operator, that designation of the above named operator as Current Operator is not effective until this certificate is approved by the Commission.							
Name of Previous Operator			Signature				
Name (print)			<input type="checkbox"/> Authorized Employee of previous operator <input type="checkbox"/> Authorized agent of previous operator (see instruction G)				
Title			Date		Phone with area code		
16. CURRENT OPERATOR CERTIFICATION. By signing this certificate as the Current Operator, I certify that all statements on this form are true and correct and I acknowledge responsibility for the regulatory compliance of the subject lease including plugging of well(s) pursuant to Rule 14. I further acknowledge that I assume responsibility for the physical operation, control, and proper plugging of each well designated in this filing. I also acknowledge that I will remain designated as the Current Operator until a new certificate designating a new Current Operator is approved by the Commission.							
Chasity Jackson			Chasity Jackson				
Name (print)			Signature				
Sr. Regulatory Coordinator			<input checked="" type="checkbox"/> Authorized Employee of current operator <input type="checkbox"/> Authorized agent of current operator (see instruction G)				
Title			Date		Phone with area code		
Chasity.Jackson@conocophillips.com			7/20/2022		432-686-3087		
E-mail Address (optional)			Date		Phone with area code		



# REQUEST FOR PERMISSION TO SUBDIVIDE OR CONSOLIDATE OIL LEASE(S)

READ INSTRUCTIONS ON BACK

**P-6**  
5/02  
WWW-1

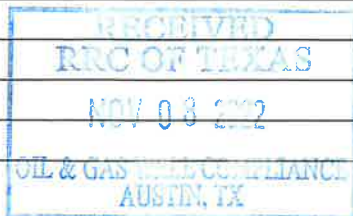
1. Receiving Operator name, exactly as shown on P-5 Organization Report	2. Operator P-5 no.	3. RRC district no.	5. Purpose of Filing:																											
		4. County	<input type="checkbox"/> Consolidation <input type="checkbox"/> Subdivision																											
6. Operator address including city, state, and zip code		7. Field name exactly as shown on proration schedule																												
8. Are any of the leases being subdivided or consolidated currently overproduced or in violation of statewide rules? (check one) <input type="checkbox"/> No <input type="checkbox"/> Yes																														
<b>9. Lease to be subdivided or leases to be consolidated. List lease names and well numbers exactly as listed on current Commission Oil Proration Schedule.</b> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:35%;">LEASE NAME</th> <th style="width:15%;">LEASE NUMBER</th> <th style="width:15%;">LEASE ACRES</th> <th colspan="2" style="width:35%;">WELL NUMBERS (e.g.: 1, 2, 3-U, 3-L, 4, etc.)</th> </tr> </thead> <tbody> <tr><td>(1)</td><td></td><td></td><td colspan="2"></td></tr> <tr><td>(2)</td><td></td><td></td><td colspan="2"></td></tr> <tr><td>(3)</td><td></td><td></td><td colspan="2"></td></tr> </tbody> </table>					LEASE NAME	LEASE NUMBER	LEASE ACRES	WELL NUMBERS (e.g.: 1, 2, 3-U, 3-L, 4, etc.)		(1)					(2)					(3)										
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(1)																														
(2)																														
(3)																														
<b>10. Lease(s) resulting from subdivision or after consolidation (how the leases/wells are to be listed on the Commission Oil Proration Schedule). For well number changes, give both old and new number; if there is no well number change, show the number under "old".</b> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2" style="width:35%;">LEASE NAME</th> <th rowspan="2" style="width:15%;">LEASE NUMBER</th> <th rowspan="2" style="width:15%;">LEASE ACRES</th> <th colspan="2" style="width:20%;">WELL NUMBERS</th> <th rowspan="2" style="width:15%;">API NUMBER 42-</th> </tr> <tr> <th style="font-size: small;">Old</th> <th style="font-size: small;">New</th> </tr> </thead> <tbody> <tr><td>(1)</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>(2)</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>(3)</td><td></td><td></td><td></td><td></td><td></td></tr> </tbody> </table>					LEASE NAME	LEASE NUMBER	LEASE ACRES	WELL NUMBERS		API NUMBER 42-	Old	New	(1)						(2)						(3)					
LEASE NAME	LEASE NUMBER	LEASE ACRES	WELL NUMBERS					API NUMBER 42-																						
			Old	New																										
(1)																														
(2)																														
(3)																														
11. Is the ownership, working interest, and the royalty interest for all leases listed in Items 9 or 10 identical? (check one) <input type="checkbox"/> No <input type="checkbox"/> Yes (See instruction D )																														
12. Is the acreage listed for the resulting leases in Item 10 contiguous? (Check one) <input type="checkbox"/> No <input type="checkbox"/> Yes (See instruction F)				<b>RRC USE ONLY</b>  Reviewer's initials: _____  Approval date: _____																										
<b>OPERATOR CERTIFICATION:</b> I certify that I am authorized to make this request, that it was prepared by me or under my supervision and direction, and that the data and facts stated herein are true, correct, and complete to the best of my knowledge.																														
_____ Signature		_____ Date																												
_____ Name (print or type)		_____ Title																												
_____ Phone number (with area code)		_____ E-mail address (optional)																												

**REQUEST FOR PERMISSION TO SUBDIVIDE OR  
CONSOLIDATE OIL LEASE(S)**

**P-6**

5/02

10. Lease(s) resulting from subdivision or after consolidation (how the leases/wells are to be listed on the Commission Oil Proration Schedule). For well number changes, give both old and new number; if there is no well number change, show the number under "old".					
LEASE NAME	LEASE NUMBER	LEASE ACRES	WELL NUMBERS		API NUMBER 42-
			Old	New	
(1) * Indicates PSA well after P-6/W-2 approval..					
UL 20 N Twitch	57934	640.7	0403H		301-32740
UL 20 N Paddle Tail	57935	640.7	0503H		301-31794
UL 20 S Bucktail	57938	640.7	1001H		495-33544
*UL Popper A	57940	300	1002H		495-33891
*UL 20 Popper B	57941	300	1003H		495-33892
*UL 20 Bucktail A1	57942	80	1005H		495-33889
*UL 20 Bucktail A	57943	320	1007H		495-33890
*UL 20 Bucktail C	57944	320	1009H		495-34399
*UL 20 Bucktail D	57945	260.7	1010H		495-34404
*UL Spinner A	57946	200.875	1503H		495-33705
UL 20 SW Topwater	57947	320.35	1803H		301-32609
UL 20 N Gold Spoon	57949	640.7	2002H		301-31788
*UL 20 N Gold Spoon A	57950	640.7	2003ST	2003H	301-32937
*UL 20 N Gold Spoon B	57954	640.7	2004H		301-32938
*UL 20 S Chatter A	57955	319	2701H		495-34175
*UL 20 S Chatter C	57956	319	2703H		495-34174
*UL 20 N Chatter A	57957	309	2704H		495-34170
*UL 20 N Chatter C	57958	314.7	2706H		495-34169
*UL 20 Rat Tail B	57959	200.225	2708H		495-34454
*UL 20 Silver Spoon A	57960	160	3902H		495-34004
*UL 20 Silver Spoon B	57961	160	3903H		495-33993
*UL 20 Silver Spoon C	57962	160	3904H		495-34006
*UL 20 Silver Spoon D	57963	160	3905H		495-33994
*UL 20 Silver Spoon E	57964	160	3906H		495-34449
*UL 20 Silver Spoon G	57965	140	3908H		495-34448
*UL 20 Silver Spoon H	57966	80	3909H		495-34550
*UL 20 Silver Spoon J	57967	60	3910H		495-34551
*UL 20 Silver Spoon I	57968	161.4	3911H		495-34571



**Form P-16**

**Page 1**  
Rev. 06/2022

Date: 04/24/23 mo. day yr.



# RAILROAD COMMISSION OF TEXAS

**1701 N. Congress  
P.O. Box 12967  
Austin, Texas 78701-2967**

**Form P-16**

Page 2

Rev. 06/2022

## Acreage Designation

Filer is the owner or lessee of all or an undivided portion of the minerals under each tract listed below and has the legal right to drill on each tract traversed by the well that will have perforations or other take points open in the interval of the applied-for field(s). All tracts listed will actually be traversed by the wellbore or the filer has pooling authority or other contractual authority, such as a production sharing agreement, authorizing inclusion of the non-drill site tract in the acreage assigned to the well.

SECTION V. LISTING OF ALL TRACTS CONTRIBUTING ACREAGE TO AN RRC DESIGNATED DEVELOPMENTAL UNIT THAT IS NOT A SINGLE LEASE, POOLED UNIT, OR GROUP OF TRACTS UNITIZED BY CONTRACT FOR PURPOSES OF SECONDARY RECOVERY						
RRC ID No., Lease No. or Tract ID		Lease Name	Beginning Lease Acres	Ownership Interval (Upper)	Ownership Interval (Lower)	Operator Name and Operator No. (if different from filing operator)
A	Tract 40	Tract 40	640.700			
B	Tract 48	Tract 48	640.700			
C	Tract 64	Tract 64	160.175			
D						
E						
F						
G						
H						
Total Acreage =			1441.575			

Filer is the owner or lessee, or has been authorized by the owner or lessee, of all or an undivided portion of the mineral estate under each tract for which filer is listed as operator below. For all leases operated by other entities, the number of assigned acres shown are reflected on current Commission records or the filer has been authorized by the current operator to change the assigned acreage of that operator as shown below.

[illegible]

\*A revised P-16 is required if increasing the proration acreage on an existing Allocation or PSA well utilizing acreage from a regulatory lease or undeveloped tract not listed in Section V. (refer to instructions)

OPERATOR: PDEH LLC

AS-DRILLED LOCATION

LEASE NAME & WELL NO.:

UL 20 SPINNER A 1503H

API #: 4249533705

PSA ACREAGE:

1,441.575 ACRES (CALLED)

NEAREST TOWN IN COUNTY:

±9.5 MILES SOUTHWEST OF WINK, TEXAS

DESCRIPTION:

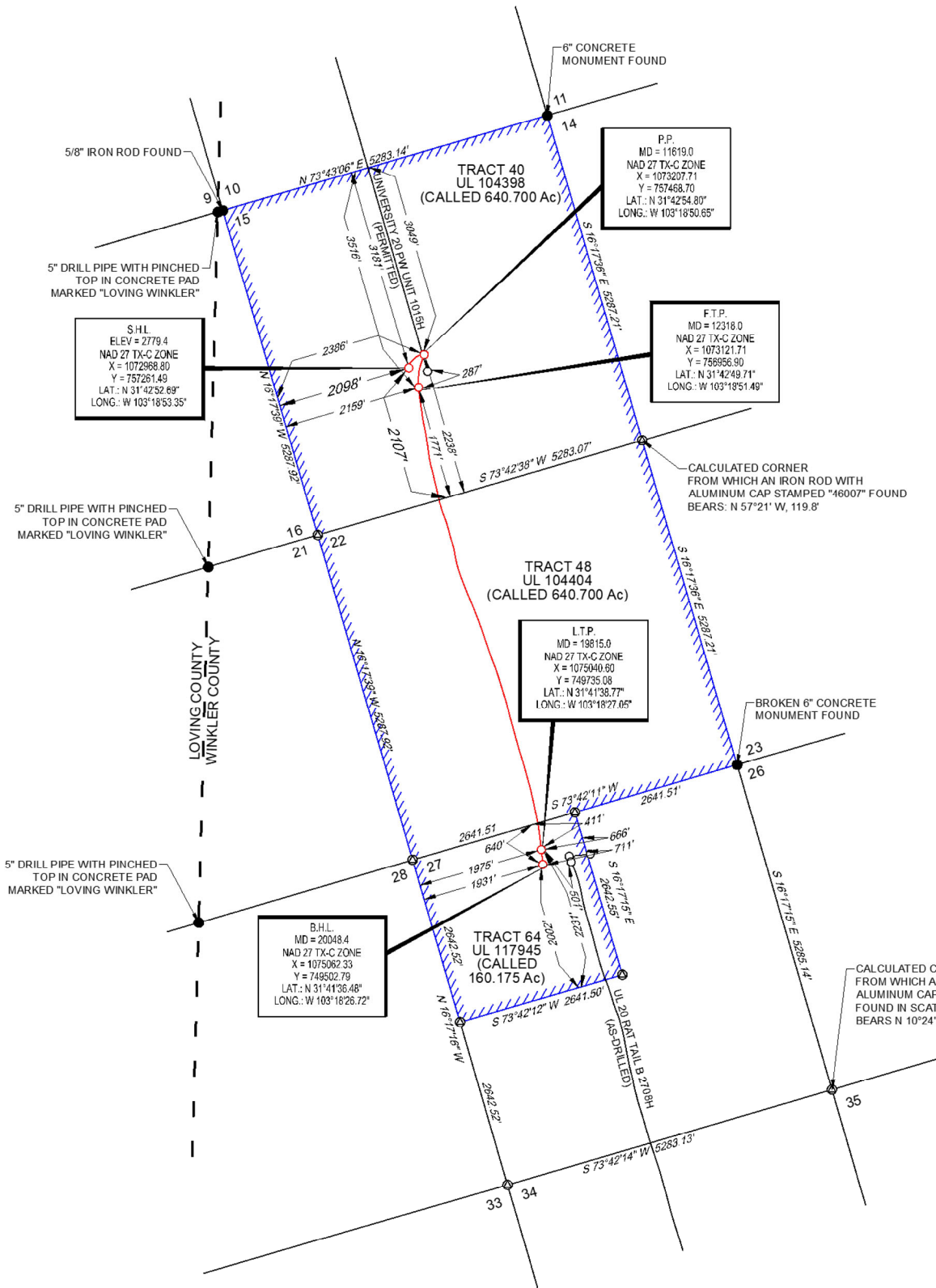
S.H.L./P.P./F.T.P.: SECTION 15, BLOCK 20, UNIVERSITY LAND SURVEY

L.T.P./B.H.L.: SECTION 27, BLOCK 20, UNIVERSITY LAND SURVEY

WINKLER COUNTY, TEXAS

SCALE: 1" = 2000'

0' 1000' 2000'



TIES TABLE

POINT	PSA	SURVEY/SECTION
S.H.L.	3181' FNWL	2098' FSWL & 2107' FSEL
	2098' FSWL	
P.P.	3049' FNWL	2386' FSWL & 2238' FSEL
	2386' FSWL	
F.T.P.	3516' FNWL	2159' FSWL & 1771' FSEL
	2159' FSWL	
L.T.P.	666' FNEL	411' FNWL & 1975' FSWL
	2231' FSEL	
B.H.L.	711' FNEL	640' FNWL & 1931' FSWL
	2002' FSEL	

PRODUCTIVE LATERAL

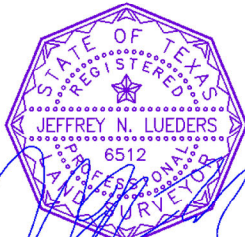
LENGTH (F.T.P. TO L.T.P.)	
1	1,783.29'
2	5,297.52'
2	416.19'
TOTAL	7,497.00'

LEGEND:

- PSA Boundary
- Approximate County Line
- Survey/Section Line
- As-Drilled Well Path
- Existing/Permitted Well Path
- Monument Found
- Calculated Corner
- Well Point



1400 EVERMAN PARKWAY, Ste. 146 FT. WORTH, TEXAS 76140  
TELEPHONE: (817) 744-7512 FAX: (817) 744-7554  
TEXAS FIRM REGISTRATION NO. 10042504  
WWW.TOPOGRAPHIC.COM



Jeffrey N. Lueders, R.P.L.S. No. 6512

UL 20 SPINNER A 1503H  
AS-DRILLED

DATE: 11/18/2016

FILE: AD\_UL\_20\_SPINNER A 1503H\_REV3\_PDEH

DRAWN BY: MML

SHEET: 1 OF 1

REVISION:	
A.C.L.	07/19/2022
O.M.	04/20/2023
O.M.	05/01/2023

NOTES:

1. ORIGINAL DOCUMENT SIZE: 11" X 17"
2. ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREIN ARE GRID BASED UPON THE TEXAS STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE, U.S. SURVEY FEET, NORTH AMERICAN DATUM 1927, UNLESS OTHERWISE NOTED.
3. THIS LOCATION AND/OR UNIT/LEASE BOUNDARY HAS BEEN CAREFULLY SURVEYED ON THE GROUND UNDER MY SUPERVISION AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE ACCORDING TO THE EVIDENCE, OFFICIAL SURVEY RECORDS, MAPS, AND OTHER DATA PROVIDED BY PERMIAN DELAWARE ENTERPRISES HOLDINGS, LLC. THIS PLAT WAS CREATED FOR THE SOLE PURPOSE OF FILING A PERMIT WITH THE RAILROAD COMMISSION OF TEXAS AND SHOULD NOT BE CONSTRUED AS A "BOUNDARY SURVEY" IN COMPLIANCE WITH T.B.P.L.S. MINIMUM STANDARDS OF PROCEDURES FOR BOUNDARY SURVEYS. 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.
4. ALL ELEVATION VALUES CONTAINED HEREON ARE ORTHOMETRIC ONLY, BASED UPON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88), U.S. SURVEY FEET.
5. ALL MINERAL OWNERSHIP DATA SHOWN HEREIN IS BASED ON INFORMATION PROVIDED BY PERMIAN DELAWARE ENTERPRISES HOLDINGS, LLC OR ITS SUBSIDIARIES & AFFILIATES.

NOTES CONT'D:

6. THE AS-DRILLED SURFACE LOCATION HAS BEEN CAREFULLY SURVEYED ON THE GROUND DURING THE DATE OF APRIL 2, 2016.
7. THE SUBSURFACE WELL PATH DATA SHOWN HEREIN IS BASED ON INFORMATION PROVIDED BY PERMIAN DELAWARE ENTERPRISES HOLDINGS, LLC OR ITS SUBSIDIARIES & AFFILIATES.
8. S.H.L. = SURFACE HOLE LOCATION
9. P.P. = POINT OF PENETRATION
10. F.T.P. = FIRST TAKE POINT
11. L.T.P. = LAST TAKE POINT
12. B.H.L. = BOTTOM HOLE LOCATION