



Company: ConocoPhillips
Lease/Well: UL 20 Gold Spoon/2901H
API: 42-301-36071
Rig Name: Open Hole
State/County: Texas/Loving
VS-Azi: 0.00 Degrees
Latitude: 31.67238, Longitude: -103.33835
Grid North = True North +1.55 degs (NAD 27)
Grid Correction Applied = +1.55 degs



Depth Reference = : Ground Level

DRILLOG HA GYRO SURVEY CALCULATIONS

Error Model: VESSI_GYROFLEX.IPM

Filename: UL 20 Gold Spoon 2901H.ut

Minimum Curvature Method

Report Date/Time: 11/7/2022 / 09:15

Vaughn Energy Services

Cisco Texas

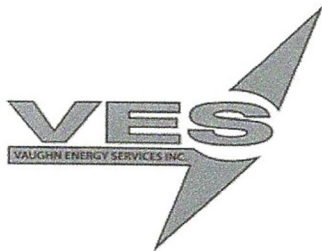
254-488-2642

Gregg Wilson

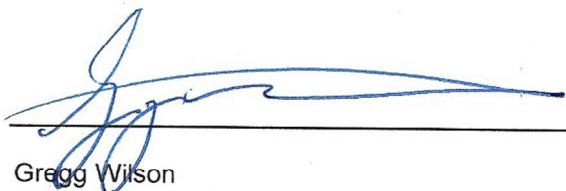
UL 20 Gold Spoon 2901H API # 42-301-36071

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	****
100.00	0.37	151.60	100.00	-0.28	0.15	-0.28	0.32	151.60	0.37
200.00	0.37	244.11	200.00	-0.70	0.01	-0.70	0.70	179.07	0.53
300.00	0.19	143.53	300.00	-0.98	-0.18	-0.98	0.99	190.58	0.45
400.00	0.42	283.79	400.00	-1.02	-0.44	-1.02	1.11	203.35	0.58
500.00	0.12	231.97	500.00	-1.00	-0.88	-1.00	1.33	221.40	0.36
600.00	0.43	339.13	599.99	-0.71	-1.10	-0.71	1.31	237.07	0.48
700.00	0.29	232.90	699.99	-0.51	-1.44	-0.51	1.52	250.41	0.58
800.00	0.56	339.29	799.99	-0.21	-1.81	-0.21	1.82	263.42	0.69
900.00	0.55	278.80	899.99	0.32	-2.46	0.32	2.48	277.41	0.56
1000.00	0.44	320.31	999.98	0.69	-3.18	0.69	3.25	282.27	0.37
1063.00	0.55	289.58	1062.98	0.98	-3.62	0.98	3.75	285.15	0.45

HORIZONTAL DISPLACEMENT IS
3.75 FEET AT 285.15 DEGREES



I Gregg Wilson certify that I am employed by Vaughn Energy Services Inc.
That I did on the day(s) of 11/5/2022 conduct or supervise the take of a
Rate Gyro survey from a depth of 0.00 feet to a depth of 1,063.00
feet; that the data is true, correct, complete and within the limitations of the tool as set forth by Vaughn Energy Services
Inc., that I am authorized and qualified to make this report; that this survey was conducted at the request of
ConocoPhillips for the UL 20 Gold Spoon Well # 2901H
API# 42-301-36071 in Loving County/ Parish Texas
; and I have reviewed this report and find that it conforms to the principles and procedures as set forth by Vaughn
Energy Services Inc.



Gregg Wilson
Service Technician
Vaughn Energy Services Inc.

OPERATOR: PDEH LLC
WELL LOCATION

(LEASE NAME & WELL NO.)
UL 20 GOLD SPOON 2901H

LEASE ADDRESS:
640.700 ACRES (CALLED)

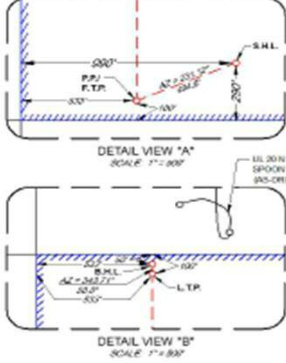
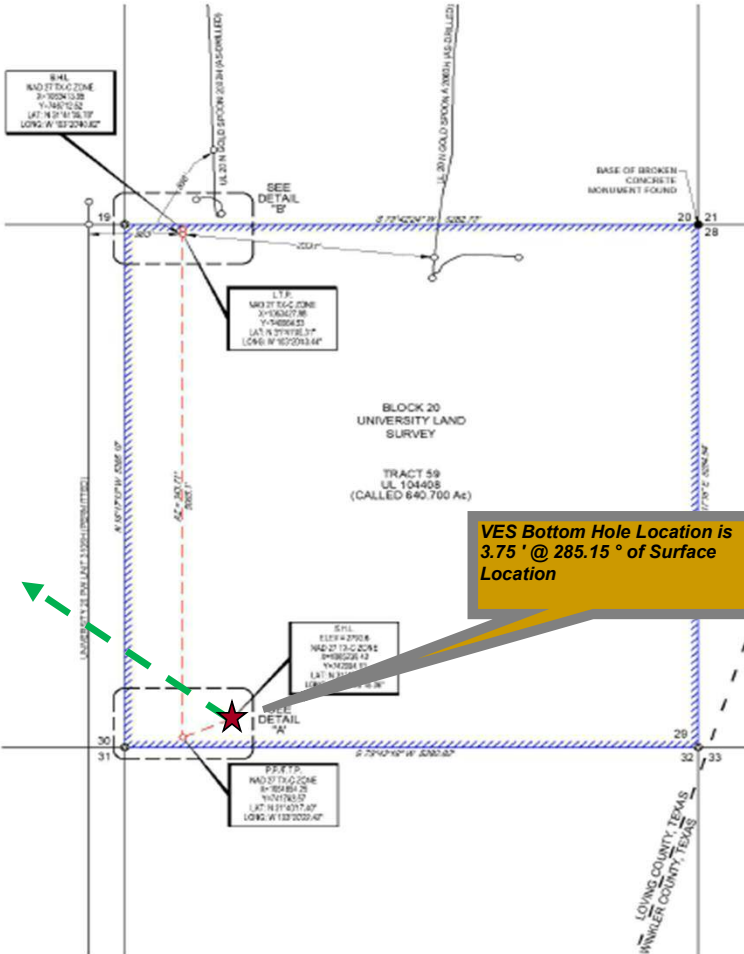
NEAREST TOWN & COUNTY:
BROOKFORD

±15.5 MILES SOUTHEAST OF MENTONE, TEXAS

S.H.L.P.P./F.T.P.: SECTION 29, BLOCK 20, UNIVERSITY LAND SURVEY
L.T.P.B.H.L.: SECTION 29, BLOCK 20, UNIVERSITY LAND SURVEY
LOVING COUNTY, TEXAS



SCALE: 1" = 1000'
0 500 1000'



PRODUCTIVE LATERAL

LENGTH (F.T. TO L.T.P.)
1
5.069
TOTAL

TIES TABLE

POINT	LEASE	SURVEY SECTION
S.H.L.	2901 F.S.W.	2901 F.S.W. & 2901 F.S.W.
P.P.	537 F.S.W.	537 F.S.W. & 537 F.S.W.
F.T.P.	537 F.S.W.	537 F.S.W. & 537 F.S.W.
L.T.P.	537 F.S.W.	537 F.S.W. & 537 F.S.W.
B.H.L.	537 F.S.W.	537 F.S.W. & 537 F.S.W.

LEGEND:

-----	Lease Boundary
-----	Approximate Location County Line
-----	Section Line
-----	Proposed Well Path
-----	Existing Permitted Well Path
●	Monument Found
○	Calculated Center
○	Well Point



John R. Anderson, R.P.L.S. No. 6442

UL-20-29-P3 UL 20 GOLD SPOON #2901H	REVISION:		NOTES:
	INT	DATE	
DATE: 07/11/2022			1. ORIGINAL DOCUMENT SIZE: 11" x 17"
FILE: UL-20-29-P3-2901H-0001-001			2. ALL BEARING, DISTANCES AND COORDINATE VALUES CONTAINED HEREON ARE GROUND SURVEY DATA.
DRAWN BY: A.C.L./J.M.			3. THIS LOCATION RECORD IS THE PROPERTY OF PDEH LLC AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF PDEH LLC.
SHEET: 1 OF 1			4. ALL ELEVATION VALUES CONTAINED HEREON ARE ORTHOMETRIC ONLY BASED UPON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 83) U.S. SURVEY FEET.
			5. ALL MEASUREMENTS, CALCULATIONS AND DATA ARE BASED ON INFORMATION PROVIDED BY PDEH LLC AND ARE NOT TO BE USED FOR ANY OTHER PURPOSES WITHOUT THE WRITTEN PERMISSION OF PDEH LLC.

VES Bottom Hole Location is		3.75' @ 285.15°		of Surface Location	
MD / FT	1063'			1062.98'	TVD / FT
North / FT	South / FT			East / FT	West / FT
0.98'					3.62'