



Well: UNIVERSITY 20 PW 2502H  
Project: WINKLER - TEXAS CENTRAL (NAD27)  
API #: 42495341820000  
Lat: 31° 41' 26.425 N  
Final north: 5,552.77ft  
Event code: DRO  
Event Start Date: 12/18/2018  
Water Depth: 2,772.10ft  
Rig Name: PRECISION 565  
H2S present: N

Wellbore: UNIVERSITY 20 PW 2502H  
Site: UL-20-36-P1  
License no.: 841765  
Long: 103° 15' 49.885 W  
Final east: -1,473.34ft  
Event Objective: Drill - Wolfcamp Alpha A2  
Event End date: 01/31/2019  
ReferencedDatum: DFE @ 2,798.10ft (PRECISION 565)  
Rig Released: 01/31/2019 09:00



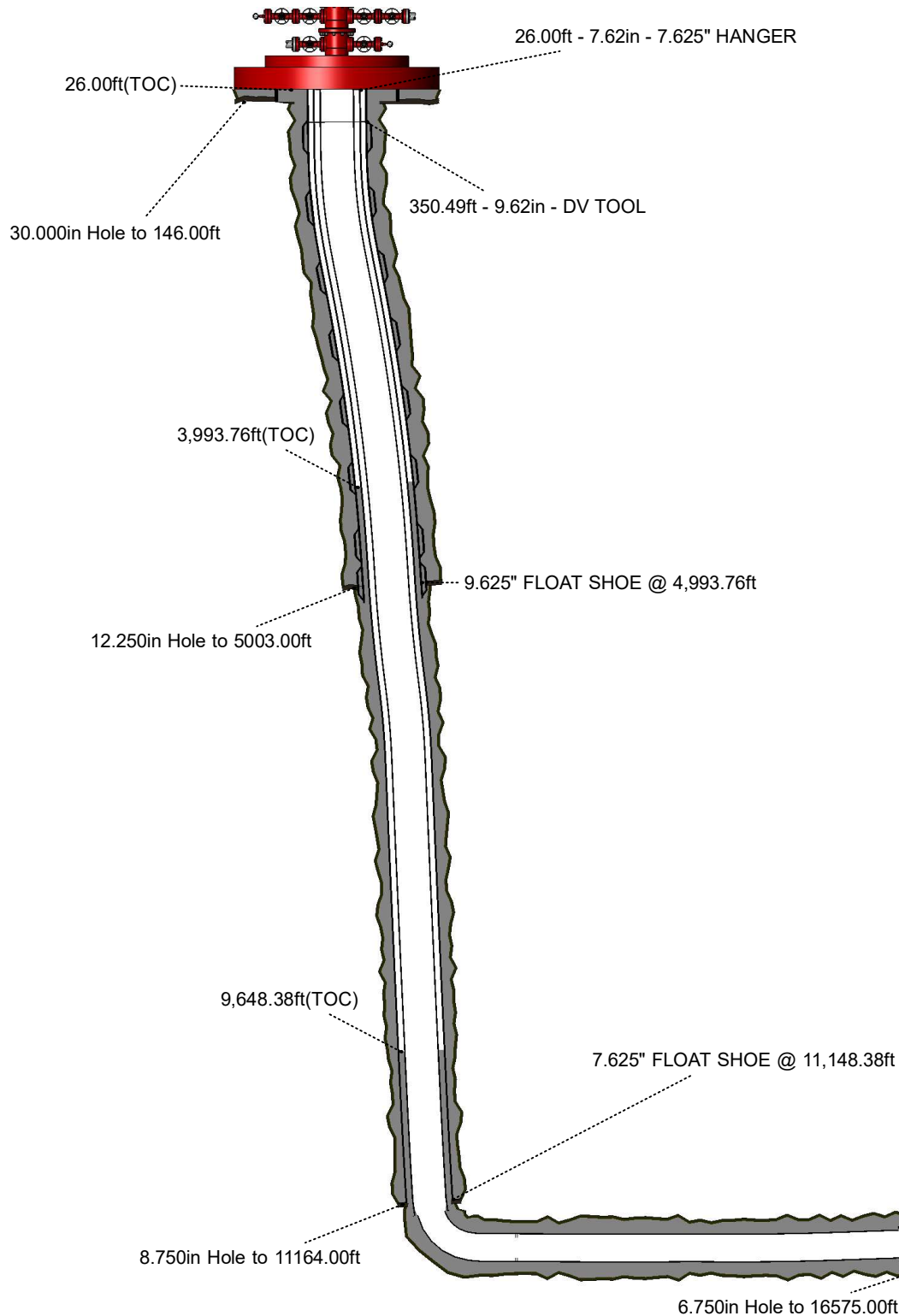
MD BH: 16,575.00ft  
TVD BH: 11,699.33ft  
PBDT: 0.00ft

Well Path Details  
Maximum DLS: 15.87°/100ft  
Max DLS Depth: 11,703.00ft  
KO MD: 0.00ft  
VSA: 343.71°  
FORMATION: WOLFCAMP SHALE B1  
MD BH: 16,575.00ft  
TVD BH: 11,699.33ft

Hole Section For:	Secured Date	Top MD(ft)	Base MD(ft)
30" CONDUCTOR	12/17/2018	26.00	146.00
12.25" SURFACE	12/20/2018	146.00	5,003.00
8.75" INTERMEDIATE	01/10/2019	5,003.00	11,164.00
6.75" PRODUCTION	01/31/2019	11,164.00	16,575.00

#### ALL WELLBORES

WB #	WB UWI	Name	KOP MD(ft)	Spud/KO date	Date TD	MD BH(ft)	TVD BH(ft)
01	42495341820000	UNIVERSITY 20 PW 2502H	0.00	12/18/2018	01/29/2019	16,575.00	11,699.33



String Type: Conductor - run 20.000in MD Top: 26.00ft MD Landed: 146.00ft								
Jt.	Item Description	MD Top(ft)	Length(ft)	OD(in)	ID(in)	Wt.(ppf)	Grade	Top Conn
4	20" 52.75# API 5L CASING	26.00	120.00	20.000	19.500	52.75	L360	UNK
String Type: Surface Casing Size: 9.625in MD Top: 26.00ft MD Landed: 4,993.76ft								
Jt.	Item Description	MD Top(ft)	Length(ft)	OD(in)	ID(in)	Wt.(ppf)	Grade	Top Conn
8	9.625" 40# J-55 LTC CASING JOINTS	26.00	324.49	9.625	8.835	40.00	J55,	LTC
1	DV TOOL	350.49	2.68	9.625	8.835	40.00	J55,	LTC
112	9.625" 40# J-55 LTC CASING JOINTS	353.17	4,557.08	9.625	8.835	40.00	J55,	LTC
1	9.625" FLOAT COLLAR	4,910.25	1.55	9.625	8.835	40.00	J55,	LTC
2	9.625" 40# J-55 LTC CASING JOINTS	4,911.80	80.38	9.625	8.835	40.00	J55,	LTC
1	9.625" FLOAT SHOE	4,992.18	1.58	9.625	8.835	40.00	J55,	LTC
String Type: Intermediate Casing Size: 7.625in MD Top: 26.00ft MD Landed: 11,148.38ft								
Jt.	Item Description	MD Top(ft)	Length(ft)	OD(in)	ID(in)	Wt.(ppf)	Grade	Top Conn
1	7.625" HANGER	26.00	4.50	7.625	6.875	29.70	L80-	BTC
243	7.625" 29.7# L-80 BTC CASING JOINTS	30.50	11,024.42	7.625	6.875	29.70	L80-	BTC
1	7.625" FLOAT COLLAR	11,054.92	1.95	7.625	6.875	29.70	L80-	BTC
2	7.625" 29.7# L-80 BTC CASING JOINTS	11,056.87	89.48	7.625	6.875	29.70	L80-	BTC
1	7.625" FLOAT SHOE	11,146.35	2.03	7.625	6.875	29.70	L80-	BTC
String Type: Tapered String Size: 4.500in MD Top: 26.00ft MD Landed: 16,556.10ft								
Jt.	Item Description	MD Top(ft)	Length(ft)	OD(in)	ID(in)	Wt.(ppf)	Grade	Top Conn
1	Casing Hanger	26.00	3.75	5.500	4.670	23.00	P110	Wedge 563
244	5.5" 23# Wedge 563 P110-ICY Csg Jt	29.75	11,077.96	5.500	4.670	23.00	P110	Wedge 563
1	5.5" 23# Wedge 563 P110-ICY Marker Joint	11,107.71	19.90	5.500	4.670	23.00	P110	Wedge 563
3	5.5" 23# Wedge 563 P110-ICY Csg Jt	11,127.61	136.99	5.500	4.670	23.00	P110	Wedge 563
1	Crossover (diameter change) up	11,264.60	2.96	5.500	4.670	23.00	P110	Wedge 563
22	4.5" 13.5# Wedge 563 P110-ICY Csg Jt	11,267.56	1,005.65	4.500	3.920	13.50	P110	Wedge 563
1	Crossover (thread change)	12,273.21	19.60	4.500	3.920	13.50	P110	Wedge 563
97	4.5" 13.5# TXP P110-ICY Csg Jt	12,292.81	3,861.92	4.500	3.920	13.50	P110	TXP
1	4.5" 13.5# TXP P110-ICY Marker Joint	16,154.73	19.84	4.500	3.920	13.50	P110	TXP
6	4.5" 13.5# TXP P110-ICY Csg Jt	16,174.57	240.54	4.500	3.920	13.50	P110	TXP
1	NOV BPS Port	16,415.11	2.13	4.500	3.920	13.50	P110	TXP
1	4.5" 13.5# TXP P110-ICY Csg Jt	16,417.24	46.34	4.500	3.920	13.50	P110	TXP
1	Float Collar	16,463.58	3.18	4.500	3.920	13.50	P110	TXP
2	4.5" 13.5# TXP P110-ICY Csg Jt	16,466.76	86.94	4.500	3.920	13.50	P110	TXP
1	Casing Float Shoe	16,553.70	2.40	4.500	3.920	13.50	P110	TXP

Cement CEMENT 20" CONDUCTOR CASING			
Top MD(ft)	Base MD(ft)	Type	Vol Returns(bbl)
26.00	146.00	Casing	
Cement CEMENT 9.625" SURFACE CASING			
Top MD(ft)	Base MD(ft)	Type	Vol Returns(bbl)
26.00	5,013.00	Casing	150.0
Cement CEMENT 7.625" INTERMEDIATE CASING			
Top MD(ft)	Base MD(ft)	Type	Vol Returns(bbl)
3,993.76	11,164.00	Casing	
Cement CEMENT 4.5" x 5.5" PRODUCTION CASING			
Top MD(ft)	Base MD(ft)	Type	Vol Returns(bbl)
9,648.38	16,575.00	Casing	

Wellhead: PERMIAN PRODUCTION TREE WITH 11.00 TSS CSG HEAD CURRENT Working Press: 10,000psi Vendor: CAMERON	
Components Description	Removal date
10K, 11 IN NOM 10K OEC BX-158 CSG HEAD W/ 1-13/16" 10K VLVs  11" 10K x 5-1/8" 15K w/ 1-13/16" 15K valves 5" 15K x 2-9/16 10K ADAPTER 2-9/16" Manual Gate Valve (Lower Master) 10M 2-9/16" Manual Gate Valve (Upper Master) 10M 2-9/16", 10M flow cross with 1-13/16" wing sections 2-9/16" Manual Gate Valve (Crown) 10M 1/2" NPT Analog Guage	

Prepared by: Permian RC Team  
QA/QC'd by: Robert Hahn

Prepared date: xx/xx/20xx  
QA/QC'd: 05/17/2019

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