

PATTERSON 565

Well: UL McNasser 0201-17 8H
Prospect: Wolfcamp A Upper
County: Ward, TX
Surface: 206' FSL 2508' FEL SEC 3
PBHL: 75' FSL 1968' FWL SEC 1
GL: 2,646'

Drilling Engineer: D.Wayne Johnson
Drilling Manager: Bryan Knopp
Completions Manager: Jay Brenner
Geosteerer: Daniel Nolansnyder
AFE: 200861
API: 42-475-38150



Well Profile: 4 String

Directions:

~1.85 Mile NW of Pyote, TX. From intersection of Pyote Street and 3rd Street, go West on Pyote street 3.1 miles, turn right. Go 0.1 miles turn right, go 0.58 miles turn right and follow for 0.58 miles. Pad on left.

Wellhead Equipment

Tubing Head	13-5/8" 10M x 7-1/6" 15M
Wellhead	13-5/8" 5M MBU-4T-CFL

Tubular Detail

String	Size	Wt	Grade	Conn	From	To
Surface	13 3/8"	54.5#	J-55	BTC	0'	1,378'
Intermediate 1	10-3/4"	46#	J-55	BTC	0'	5,033'
Intermediate 2	7-5/8"	30#	HCL-80	BTC	0'	10,675'
Production	5-1/2"	20#	P-110	Geo-Conn SC	10,425'	21,806'

Directional Program

MD	INC	AZI	TVD	+N/-S	+E/-W	DLEG	TFACE	VSECT
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1500.00	0.00	0.00	1500.00	0.00	0.00	0.00	0.00	0.00
1920.49	8.41	247.95	1918.99	-11.57	-28.55	2.00	247.95	3.10
7017.33	8.41	247.95	6961.01	-291.43	-719.45	0.00	0.00	78.20
7437.82	0.00	0.00	7380.00	-303.00	-748.00	2.00	180.00	81.30
10775.36	0.00	0.00	10717.54	-303.00	-748.00	0.00	0.00	81.30
11525.36	90.00	163.73	11195.00	-761.34	-614.23	12.00	163.73	558.77
21746.19	90.00	163.73	11195.00	-10572.84	2249.32	0.00	0.00	10779.60
21806.19	90.00	163.73	11195.00	-10630.44	2266.13	0.00	0.00	10839.60

All Geo Tops (TVD)

4,993'	Bell Canyon (Base of Salt)
6,101'	Cherry Canyon
7,070'	Brushy Canyon
8,075'	Bone Spring
8,087'	Avalon Upper
8,711'	Avalon Lower
9,228'	1st Bone Spring Sand
9,490'	2nd Bone Spring Lime
9,917'	2nd Bone Spring Sand
10,100'	3rd Bone Spring Lime
10,651'	Phantom WC Field Top
10,862'	3rd Bone Spring Sand
11,041'	Wolfcamp Top
11,066'	Wolfcamp X
11,079'	Wolfcamp X Base
11,127'	Wolfcamp Y
11,143'	Wolfcamp A
11,175'	Top Target
11,188'	Wolfcamp A2
11,195'	Landing Point

Loveland offsets did not get cmt to surf. Our WPX McNassers have. Mud up 40-45 vis.

17-1/2"
MW = 8.4 PPG 40-45 vis
TOC = Surface

Offsets fought getting 10-3/4" pipe down, even after wiper trips and reamer runs. Apparent smectite/clay zone ~1700'. Spot high vis/water loss pill on bottom.

12-1/4"
MW = 10.2 PPG
TOC = Surface

H2S concern in the area. 249 took a kick. Offset SWD in the area. Watch gain/loss closely. Likely need MW around 9.8ppg. Mudloggers INT2 forward.

9-7/8" Vertical Section & Curve

MW = 9.7 - 10

TOL ~10625' MD = ~150' above shoe

TOC = Surface

6-3/4" Lateral

MW = 12.6 - 13.2

TOL ~10425' MD = ~250' above 7-5/8" Shoe

1,378' TVD

13 3/8" 54.5# J-55 BTC

4,993' TVD

Bell Canyon (Base of Salt)

5,033' TVD

10-3/4" 46# J-55 BTC

7,070' TVD

Brushy Canyon

8,087' TVD

Avalon Upper

9,228' TVD

1st Bone Spring Sand

10,100' TVD

3rd Bone Spring Lime

KOP ~10717' TVD

7-5/8" 30# HCL-80 BTC @ ~10775' MD, 100' above KOP

11,175' TVD

Top Target

11,195' TVD Landing Point

TMD 21,806' MD

TVD: 11,195' TVD

11,205' TVD Base Target

5-1/2" 20# P-110 Geo-Conn SC @ 21806' MD

Engineer	Date	Superintendents	Cementing	Mud Loggers	Mud Company	Directional
D.Wayne Johnson	9/10/2020	Ian Ensell 719-761-2440 Keith Jordan 318-757-5500	BJ 432-248-3200	Field Geo Services 970-424-5162	Stellar Drilling Fluids 432-288-8983	SDI 405-306-0118
Safety		Foreman	Solids Control	Wellhead	Casing	Regulatory
Aaron Vaughn 575-552-3951		Mark Kittrel 601-410-9114	Kayden	Cactus	B&L Pipeco or Premier Pipe	TRRC
Brandon Keifer 575-200-0769		Brady Lee 225-223-3953	720-955-8140	405-445-2222		432-684-5581