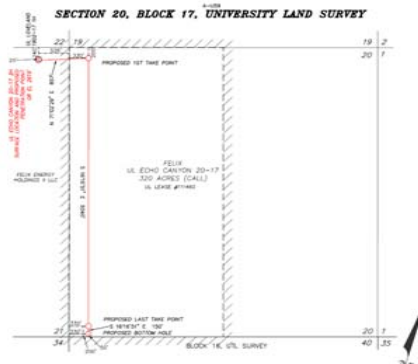


Surf Csg (13-3/8") @ 1181'

Circ to Surf



Est TOC (5-1/2") @ 3301'

Intermediate Csg (10-3/4") @ 5045'  
Est TOC (10-3/4") @ 0'

DV Tool @ 4691'

Pkr @ TBD'  
SSMSN @ TBD'

EOT @ 0

Intermediate Csg (7-5/8") @ 10443'  
Est TOC (7-5/8") @ 0'

KOP @ 10,926' Lateral @ 11,709'

Production Csg (5-1/2") @ 16544'

PBTD 16360'  
TD @ 16544'  
TVD 11318'

TCP Perfs



WELL NAME: UL Echo Canyon 20-17 2H

FIELD: Phantom (Wolfcamp)

Well #: 4247500047 Permit #: 819007

STATE: Texas

COUNTY: Ward

SRF LOC: Sec 21, Blk 17 Surv UL; 240' FNL & 526' FEL

API NO: 42-475-37142

SPUD DATE: 3/23/2017

BHL: Sec 20, Blk 17 Surv UL

PBTD: 16,360'

PBTD = BURST SUB

TD DATE: 4/13/2017

FORMATION: Lower Wolfcamp A

TD: 16,544'

TVD: 11,318'

CMPL DATE:

ELEVATION: 2619'; RKB 25'

PIPE RECORD								HOLE DATA		CEMENT DATA			
	OD	GRADE	THD	WEIGHT (ppf)	TOP	BTM	# JTS	BIT SIZE	DEPTH	SX	YIELD (cu ft/sk)	TOC	Method
Surf Csg	13-3/8"	J-55	STC	54.50#	0'	1181'	27	17.500"	1200'	1415	1.96 & 1.33	0'	Circ to Surf
Intermediate Csg	10-3/4"	J-55	BTC	45.50#	0'	5045'	120	12.250"	5060'	850	2.81 & 1.33	0'	Circ to Surf
Intermediate Csg	7-5/8"	HCP110	BTC	29.70#	0'	10443'	250	9.875"	10456'	1125	2.4 & 2.52	0'	2 stg; Circ DV
Production Csg	5-1/2"	P110	GeoConn	23.00#	0'	16544'	370	6.750"	16544'	2390	2.81 & 1.4	3301'	Est

Tbg	Perfs/Top of Sleeve Depth:	See Below	LOGS:
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HISTORY:

Perforations:

Formation	Top Perf	Bottom Perf	Net Feet	JSPF	Holes
L Wolfcamp A	16343	11583			

TUBING/BHA Detail as of: 4/18/2017	ID (in)	OD (in)	Jts	Length (ft)	Depth (ft)	PUMP/ROD Detail as of: 4/18/2017	Rods	Length (ft)
KB Correction					0.00	KB Correction		
Tubing Hanger					0.00			
1 joint 2-7/8" tubing					0.00			
Tubing Sub					0.00			
Tubing Sub					0.00			
2-7/8" Production tubing					0.00			
X-Nipple					0.00			
1 joint 2-7/8" tubing					0.00			
On/Off Tool					0.00			
AS1-X Production Packer					0.00			
Tubing Sub					0.00			
XN-Nipple					0.00			
Tubing Sub					0.00			
Disc Sub/Muleshoe					0.00			
EOT (KB)					0.00	Note:	TOTAL	0

Updated by: hdahlgren  
4/18/2017

SHOE TRACT

	Length	ID (in)	Top Depth (ft)	Btm Depth (ft)
Reaming Shoe	2.90	N/A	16541.10	16544.00
Joint 1	42.50	4.670	16498.60	16541.10
Joint 2	44.79	4.670	16453.81	16498.60
Float Collar	2.20	N/A	16451.61	16453.81
Joint 3	44.48	4.670	16407.13	16451.61
Marker Joint 1	22.27	4.670	16384.86	16407.13
Burst Sub 1	1.10	4.625	16383.76	16384.86
Marker Joint 2	22.10	4.670	16361.66	16383.76
Burst Sub 2	1.20	4.625	16360.46	16361.66