

546' FSL
1,716' FWL
Section 36
T-24-S, R-32-E

Python 36 State Com #703H
Lea County, New Mexico

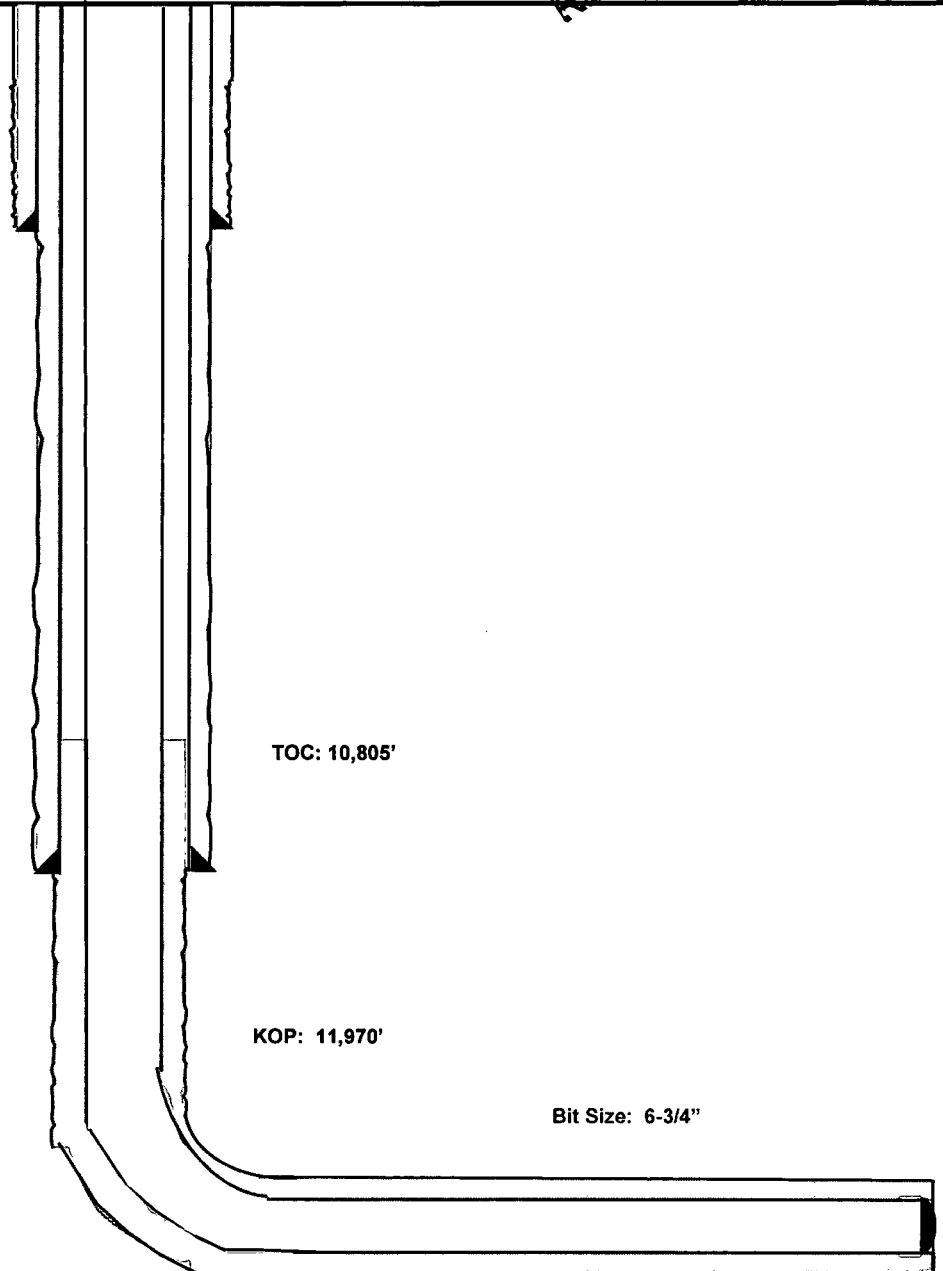
KB: 3,584'
GL: 3,559'

Proposed Wellbore
Design A

API: 30-025-*****

HOBBS OCD
MAR 07 2019
RECEIVED

Bit Size: 12-1/4"
9-5/8", 40#, J-55, LTC 0' - 1,125'
Bit Size: 8-3/4"
7-5/8", 29.7#, HCP-110, FXL @ 0' - 11,305'
Bit Size: 6-3/4"
5-1/2", 17#, HCP-110, LTC @ 0' - 17,373'



Lateral: 17,373' MD, 12,412' TVD
BH Location: 100' FNL & 1,100' FWL
Section 36
T-24-S, R-32-E

546' FSL
1,716' FWL
Section 36
T-24-S, R-32-E

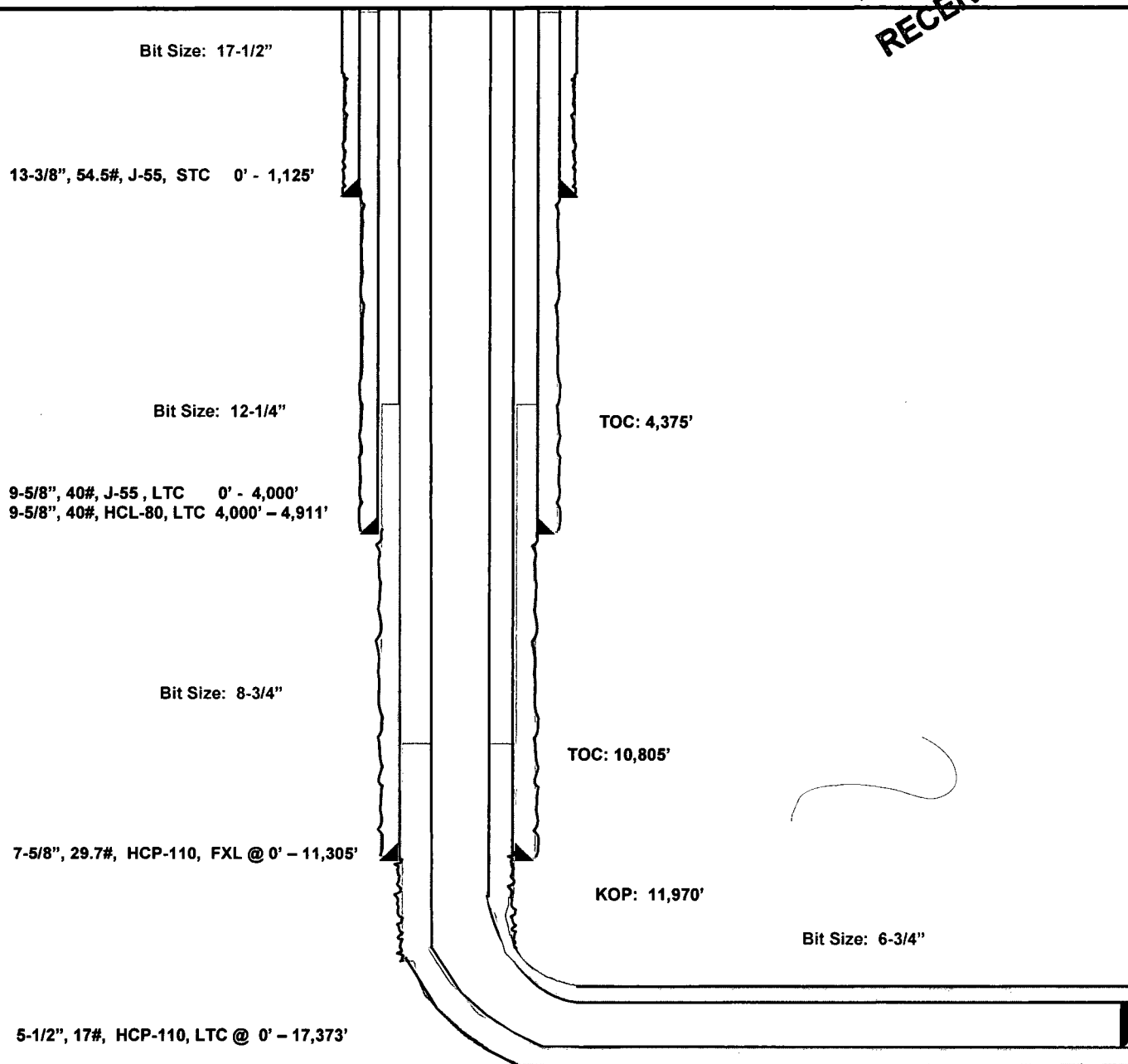
EOG RESOURCES, INC.
PYTHON 36 STATE COM #703H

KB: 3,584'
GL: 3,559'

Proposed Wellbore
Design B

API: 30-025-*****

HOBBS OCD
MAR 08 2019
RECEIVED



Lateral: 17,373' MD, 12,412' TVD
BH Location: 100' FNL & 1,100' FWL
Section 36
T-24-S, R-32-E

EOG RESOURCES, INC.
PYTHON 36 STATE COM #703H

Permit Information:

Well Name: Python 36 State Com #703H

Location:

SHL: 546' FSL & 1,716' FWL, Section 36, T-24-S, R-32-E, Lea Co., N.M.

BHL: 100' FNL & 1,100' FWL, Section 36, T-24-S, R-32-E, Lea Co., N.M.

Design A

Casing Program:

Hole Size	Interval	Csg OD	Weight	Grade	Conn	DF _{min} Collapse	DF _{min} Burst	DF _{min} Tension
12.25"	0 – 1,125'	9.625"	40#	J-55	LTC	1.125	1.25	1.60
8.75"	0' – 11,305'	7.625"	29.7#	HCP-110	FXL	1.125	1.25	1.60
6.75"	0'-17,373'	5.5"	17#	HCP-110	LTC	1.125	1.25	1.60

Cement Program:

Depth	No. Sacks	Wt. ppg	Yld Ft ³ /sk	Slurry Description
1,125'	1,000	13.5	1.73	Class C + 4.0% Bentonite + 0.6% CD-32 + 0.5% CaCl ₂ + 0.25 lb/sk Cello-Flake (TOC @ Surface)
	100	14.8	1.34	Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate
11,305'	600	14.2	1.11	1 st Stage (Tail): Class C + 5% Salt + (TOC @ 7,250')
	1,000	12.7	2.30	2 nd Stage (Bradenhead squeeze): Class C + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (TOC @ surface)
17,373'	600	14.2	1.31	Class H + 0.1% C-20 + 0.05% CSA-1000 + 0.20% C-49 + 0.40% C-17 (TOC @ 10,805')

Mud Program:

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 – 1,125'	Fresh - Gel	8.6-8.8	28-34	N/c
1,125' – 11,305'	Brine	8.8-10.0	28-34	N/c
11,305' – 11,970'	Oil Base	10.0-11.5	58-68	3 - 6
11,970' – 17,373' Lateral	Oil Base	10.0-11.5	58-68	3 - 6

EOG RESOURCES, INC.
PYTHON 36 STATE COM #703H

Design B

Casing Program:

Hole Size	Interval	Csg OD	Weight	Grade	Conn	DF _{min} Collapse	DF _{min} Burst	DF _{min} Tension
17.5"	0 – 1,125'	13.375"	54.5#	J-55	STC	1.125	1.25	1.60
12.25"	0-4,000'	9.625"	40#	J-55	LTC	1.125	1.25	1.60
12.25"	4,000' – 4,911'	9.625"	40#	HCL-80	LTC	1.125	1.25	1.60
8.75"	0 – 11,305'	7.625"	29.7#	HCP-110	FXL	1.125	1.25	1.60
6.75"	0'-17,373'	5.5"	17#	HCP-110	LTC	1.125	1.25	1.60

Cement Program:

Depth	No. Sacks	Wt. lb/gal	Yld Ft ³ /sk	Slurry Description
1,125'	700	13.5	1.74	Lead: Class 'C' + 4.00% Bentonite + 2.00% CaCl ₂ (TOC @ Surface)
	200	14.8	1.35	Tail: Class 'C' + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate + 2.0% KCl (1.06 lb/sk)
4,911'	900	12.7	2.22	Lead: Class C + 0.15% C-20 + 11.63 pps Salt + 0.1% C-51 + 0.75% C-41P (TOC @ Surface)
	350	14.8	1.32	Tail: Class C + 0.13% C-20
11,305'	275	10.8	3.67	Lead: Class C + 0.40% D013 + 0.20% D046 + 0.10% D065 + 0.20% D167 (TOC @ 4,375')
	100	14.8	2.38	Tail: Class H + 94.0 pps D909 + 0.25% D065 + 0.30% D167 + 0.02% D208 + 0.15% D800
17,373'	600	14.8	1.31	Class H + 0.1% C-20 + 0.05% CSA-1000 + 0.20% C-49 + 0.40% C-17 (TOC @ 10,805')

As a contingency, EOG requests to pump a two stage cement job on the 7-5/8" intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Brushy Canyon (7,316') and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to surface. If necessary, a top out consisting of 1,000 sacks of Class C cement + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (2.30 yld, 12.91 ppg) will be executed.

Mud Program:

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 – 1,125'	Fresh - Gel	8.6-8.8	28-34	N/c
1,125' – 4,911'	Brine	10.0-10.2	28-34	N/c
4,911' – 11,305'	Oil Base	8.7-9.4	58-68	N/c - 6
11,305' – 17,373' Lateral	Oil Base	10.0-11.5	58-68	3 - 6