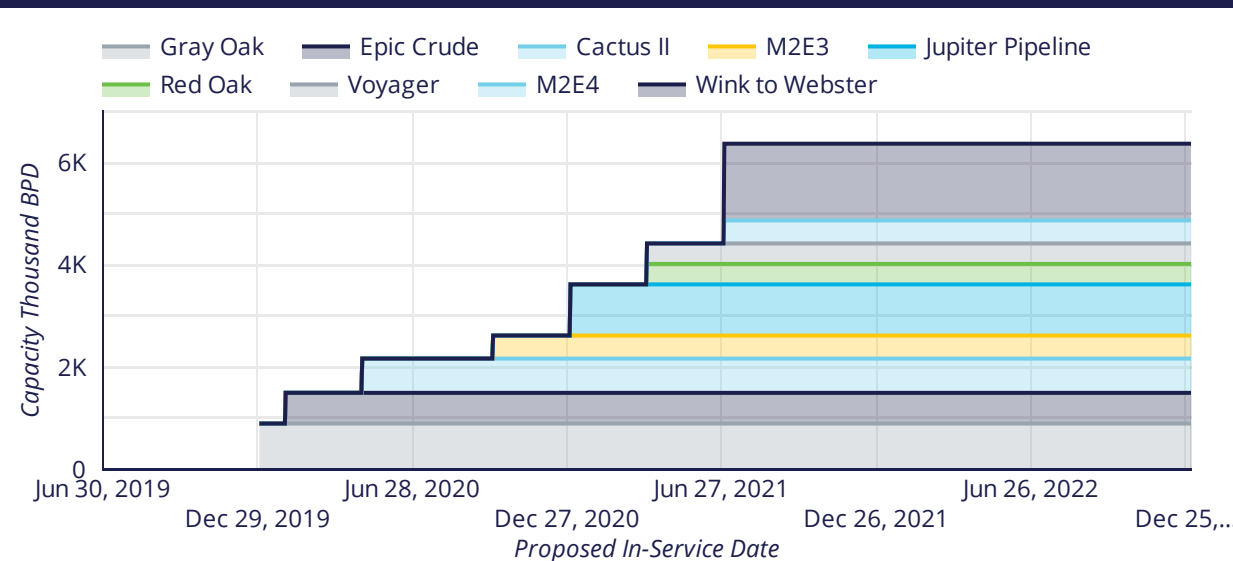


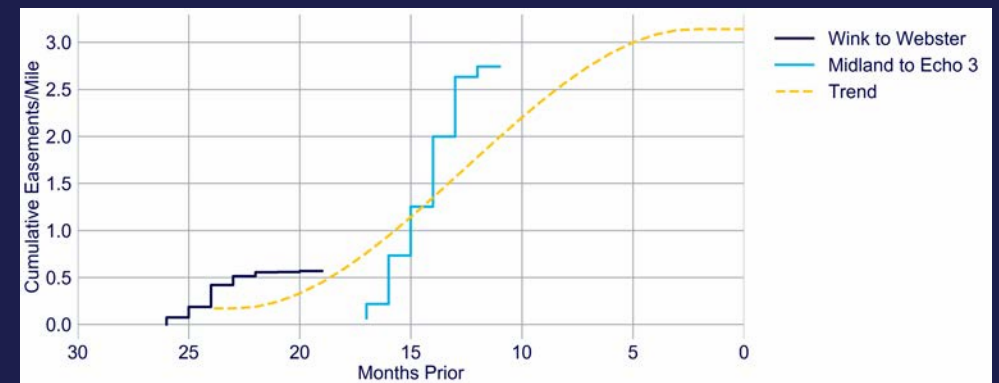
Project Name	Owners	Status	Announced Shippers	Project Commitment Score
Cactus II	Plains All American (65%), Western Gas Partner (15%), OXY, Trafigura	Entered service from Wink to Ingleside in August, full access to Corpus Christi is expected by first quarter 2020	Anadarko, Trafigura and Diamondback Energy	97
Epic Crude	EPIC Midstream Holdings (45%), Rattler Midstream (10%), Altus (15%) and Noble Midstream (30%)	Commenced Interim Service using Epic Y Grade line in August. Still expects full service in 1Q 2020	Apache, Noble and Diamondback	78
Gray Oak	Phillips 66 Partners (42.25%), Andeavor (25%), Diamondback Rattler's Midstream (10%), Enbridge (22.75%)	Began line fill in November	Gray Oak Pipeline, Diamondback Energy	75
M2E3	Enterprise Crude Pipeline LLC	Filed a New Construction Form with the TRRC on April 5, 2019 which authorized construction to begin on 9/15/19	Not Disclosed	59
Red Oak	Phillips 66 and Plains All American Pipeline (Plains)	Announced project and formation of partnership and that construction had been authorized	Not Disclosed	38
Wink to Webster	ExxonMobil, Plains All American Pipeline, MPLX, Delek, Lotus Midstream and Rattler Midstream	On January 30, 2019 formally announced formation of joint venture entity	ExxonMobil, Marathon and Diamondback Energy	36
M2E4	Enterprise Products Partners L.P.	Has Filed Construction Permit with TRRC for construction beginning on August 18, 2020.	Not Disclosed	29
Jupiter Pipeline	Jupiter MLP LLC	Announced in October 2018 that it had secured funding for project from Charon System Advisors	Not Disclosed	14
Voyager	Magellan Midstream Partners and NES Midstream, LLC	Indicated that they had not reached FID but were restructuring the project to make it more economically viable.	Not Disclosed	11

Capacity Coming Online



Progress on ROW Acquisition

Project Name	Easement Count	Easements Per Pipe Mile
M2E3	1,373	2.74
Wink to Webster	337	0.52



Cactus II

Project Commitment Score

97

Prior Project Commitment Score

97



Key Development

Went into service to Ingleside in August. No developments in November.

Diameter of Pipeline

20

Estimated Cost

\$1.15 Billion

Pipeline Miles

457.57

Key Receipt Points

McCamey, Gardendale, McMullen and Taft

Proposed In-Service Date

Apr 30, 2020

Key Delivery Points

Gardendale, McMullen, Taft, Ingleside and Corpus Christi

Phase 1 Progress

Announced Project

Yes

Held First Open Season

Yes

Held Second Open Season

Yes

Publicly Announced Shippers

Yes

Current:

1

Prior:

1

Phase 2 Progress

Initial Route Survey

Yes

Long Lead Items Ordered

Yes

Released Detailed Route

Yes

Final Investment Decision

Yes

Current:

1

Prior:

1

Phase 3 Progress

ROW Acquisition

Yes

Condemnation Actions

Yes

Submitted NC Request with TRRC

Yes

Submitted Permit Applications with TCEQ

Yes

Current:

1

Prior:

1

Phase 4 Progress

Construction

Partially

Filed Operator Permit with TRRC

Yes

Filed Tari. with TRRC

No

Filed Tariff with FERC

Yes

Current:

0.87

Prior:

0.87

Key Development

Filed tariff with FERC for interim service to the Epic Crude Terminal in Corpus Christi.

Diameter of Pipeline

30

Pipeline Miles

730

Proposed In-Service Date

Jan 31, 2020

Estimated Cost

\$2.1 Billion

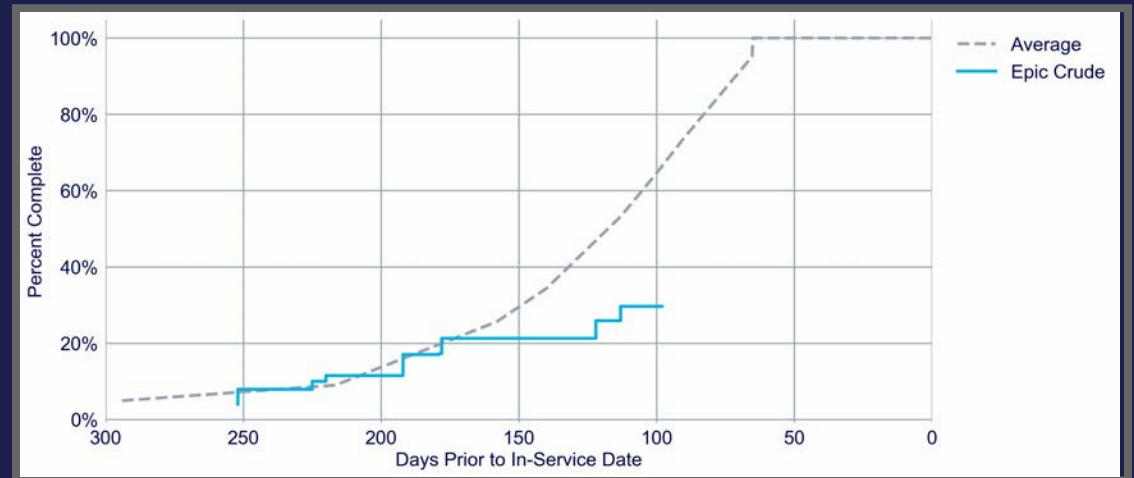
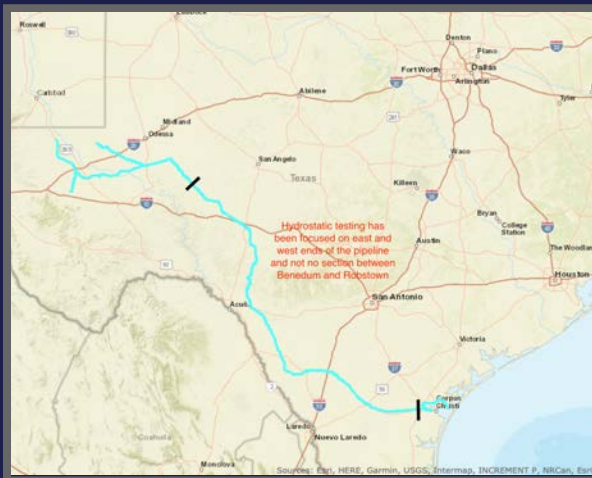
Key Receipt Points

Permian

Key Delivery Points

Corpus Christi

Hydrostatic Test Progress (EPIC Crude Line)



Phase 3 Progress

ROW Acquisition

Partially

Condemnation Actions

Yes

Submitted NC Request with TRRC

Partially

Submitted Permit Applications with TCEQ

Yes

Current:

Prior:

0.77
0.77

Phase 4 Progress

Construction

Partially

Filed Operator Permit with TRRC

Yes

Filed Tari. with TRRC

No

Filed Tariff with FERC

Partially

Current:

Prior:

0.48
0.48

Key Development

Filed tariff with TRRC effective December 1, 2019. Initial rate was 4.75 per barrel, but then filed a subsequent tariff reducing the rate to 3.90.

Diameter of Pipeline

30

Pipeline Miles

873.95

Proposed In-Service Date

Dec 31, 2019

Estimated Cost

2.7 Billion

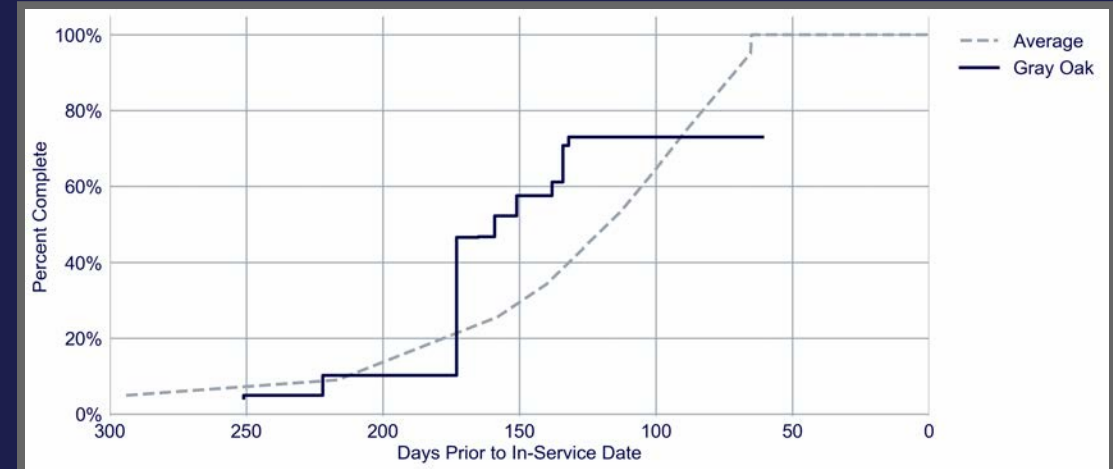
Key Receipt Points

Reeves, Loving, Winkler and Crane Counties

Key Delivery Points

Corpus Christi and Sweeney/Freeport

Hydrostatic Test Progress



Phase 3 Progress

ROW Acquisition

Yes

Condemnation Actions

Yes

Submitted NC Request with TRRC

No

Submitted Permit Applications with TCEQ

No

Current:

0.6

Prior:

0.6

Phase 4 Progress

Construction

Partially

Filed Operator Permit with TRRC

Yes

Filed Tari. with TRRC

N/A

Filed Tariff with FERC

No

Current:

0.76

Prior:

0.66

Key Development

Almost 1/3 of all easements are being obtained through use of eminent domain. May indicate local opposition to project.

Diameter of Pipeline

30

Pipeline Miles

502

Proposed In-Service Date

Oct 1, 2020

Estimated Cost

Not Disclosed

Key Receipt Points

Midland

Key Delivery Points

Echo

Phase 1 Progress

Announced Project	Held First Open Season	Held Second Open Season	Publicly Announced Shippers
Yes	No	No	No
Current:  0.1			
Prior:  0.1			

Yes No No No

Current:  0.1

Prior:  0.1

Phase 2 Progress

Initial Route Survey	Long Lead Items Ordered	Released Detailed Route	Final Investment Decision
Yes	Partially	Yes	Yes
Current:  0.73			
Prior:  0.73			

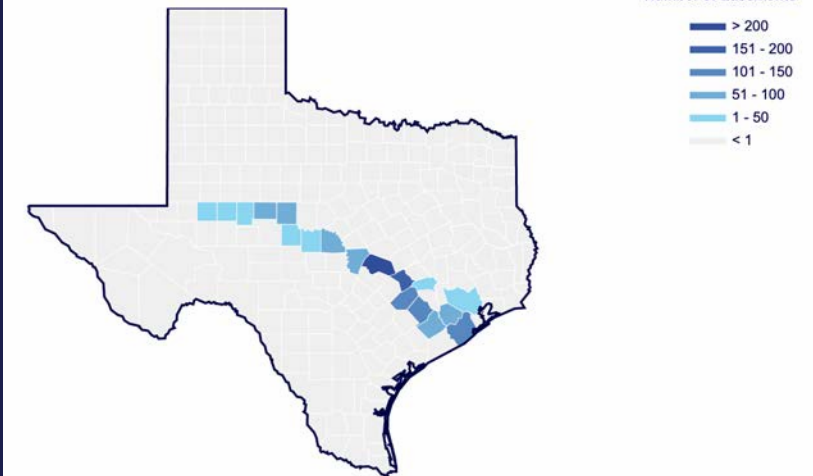
Yes Partially Yes Yes

Current:  0.73



Prior:  0.73

Easement Acquisition Progress

Midland to Echo 3



Phase 3 Progress



ROW Acquisition	Condemnation Actions	Submitted NC Request with TRRC	Submitted Permit Applications with TCEQ
Yes	Partially	Yes	No
Current:  0.83			
Prior:  0.83			

Yes Partially Yes No

Current:  0.83

Prior:  0.83

Phase 4 Progress

Construction	Filed Operator Permit with TRRC	Filed Tari. with TRRC	Filed Tariff with FERC
No	Yes	No	No
Current:  0.1			
Prior:  0.1			

No Yes No No

Current:  0.1

Prior:  0.1

Key Development

Acquisition of rights of way seems to have almost completely stopped. The project may be on pause given the slow progress.

Diameter of Pipeline

36

Pipeline Miles

650

Proposed In-Service Date

Jun 30, 2021

Estimated Cost

Not Disclosed

Key Receipt Points

Wink and Midland

Key Delivery Points

Webster, Baytown and Beaumont

Phase 1 Progress

Announced Project

Yes

Held First Open Season

Yes

Held Second Open Season

No

Publicly Announced Shippers

Partially

Current: 0.48

Prior: 0.45

Phase 2 Progress

Initial Route Survey

Yes

Long Lead Items Ordered

Partially

Released Detailed Route

Yes

Final Investment Decision

Yes

Current: 0.93

Prior: 0.93

Phase 3 Progress

ROW Acquisition

Partially

Condemnation Actions

Partially

Submitted NC Request with TRRC

No

Submitted Permit Applications with TCEQ

No

Current: 0.21

Prior: 0.21

Phase 4 Progress

Construction

No

Filed Operator Permit with TRRC

Yes

Filed Tari. with TRRC

No

Filed Tariff with FERC

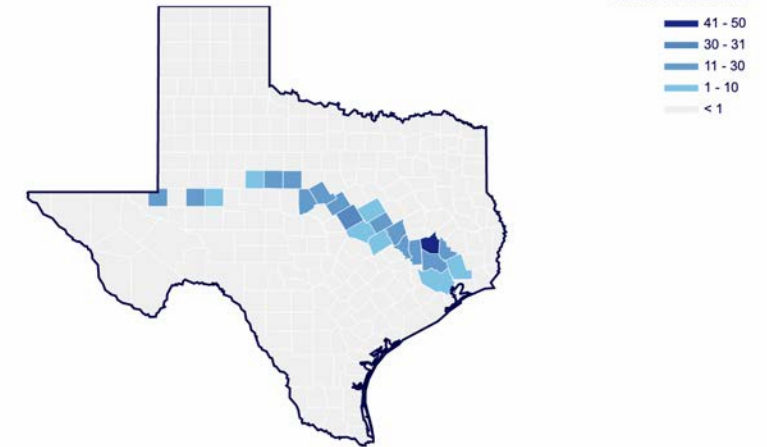
No

Current: 0.1

Prior: 0.1

Easement Acquisition Progress

Wink to Webster



Key Development

No major developments in November.

Diameter of Pipeline

30

Estimated Cost

Not Disclosed

Pipeline Miles

388

Key Receipt Points

Midland

Proposed In-Service Date

Jun 30, 2021

Key Delivery Points

Echo

Phase 1 Progress

Announced Project

Yes

Held First Open Season

No

Held Second Open Season

No

Publicly Announced Shippers

No



Phase 2 Progress

Initial Route Survey

Yes

Long Lead Items Ordered

Partially

Released Detailed Route

Yes

Final Investment Decision

No



Phase 3 Progress

ROW Acquisition

No

Condemnation Actions

No

Submitted NC Request with TRRC

Yes

Submitted Permit Applications with TCEQ

No



Phase 4 Progress

Construction

No

Filed Operator Permit with TRRC

Yes

Filed Tari. with TRRC

No

Filed Tariff with FERC

No



Key Development

Filed new construction form with TRRC that indicates the construction will not start until December 20, 2020. Expect revision to in-service date to end of 2021.

Diameter of Pipeline

30

Estimated Cost

\$2.5 Billion

Pipeline Miles

550

Key Receipt Points

Cushing and Midland

Proposed In-Service Date

Mar 31, 2021

Key Delivery Points

Corpus Christi, Ingleside, Houston and Beaumont, Texas.

Phase 1 Progress

Announced Project

Yes

Held First Open Season

Yes

Held Second Open Season

Yes

Publicly Announced Shippers

No



Current:

0.9

Prior:

0.9

Phase 2 Progress

Initial Route Survey

Yes

Long Lead Items Ordered

No

Released Detailed Route

Yes

Final Investment Decision

Yes

Current:

0.7

Prior:

0.7

Phase 3 Progress

ROW Acquisition

No

Condemnation Actions

No

Submitted NC Request with TRRC

Yes

Submitted Permit Applications with TCEQ

No

Current:

0.3

Prior:

0

Phase 4 Progress

Construction

No

Filed Operator Permit with TRRC

No

Filed Tari. with TRRC

No

Filed Tariff with FERC

No

Current:

0

Prior:

0

Jupiter Pipeline

Project Commitment Score

14

Prior Project Commitment Score

14



Key Development

No major developments in November.

Diameter of Pipeline

36

Estimated Cost

Not Disclosed

Pipeline Miles

650

Key Receipt Points

Orla, Pecos and Three Rivers

Proposed In-Service Date

Dec 31, 2020

Key Delivery Points

Pecos, Three Rivers and Brownsville

Phase 1 Progress

Announced Project

Yes

Held First Open Season

Yes

Held Second Open Season

No

Publicly Announced Shippers

No



Phase 2 Progress

Initial Route Survey

Yes

Long Lead Items Ordered

Partially

Released Detailed Route

Yes

Final Investment Decision

No



Phase 3 Progress

ROW Acquisition

No

Condemnation Actions

No

Submitted NC Request with TRRC

No

Submitted Permit Applications with TCEQ

No



Phase 4 Progress

Construction

No

Filed Operator Permit with TRRC

No

Filed Tari. with TRRC

No

Filed Tariff with FERC

No



Key Development

No developments in November

Diameter of Pipeline

No data

Estimated Cost

Not Disclosed

Pipeline Miles

1

Key Receipt Points

Cushing and Midland

Proposed In-Service Date

Mar 31, 2021

Key Delivery Points

Magellan's East Houston and Seabrook Terminals

Phase 1 Progress

Announced Project

Yes

Held First Open Season

Yes

Held Second Open Season

No

Publicly Announced Shippers

No



Phase 2 Progress

Initial Route Survey

No

Long Lead Items Ordered

No

Released Detailed Route

No

Final Investment Decision

No



Phase 3 Progress

ROW Acquisition

No

Condemnation Actions

No

Submitted NC Request with TRRC

No

Submitted Permit Applications with TCEQ

No



Phase 4 Progress

Construction

No

Filed Operator Permit with TRRC

No

Filed Tari. with TRRC

No

Filed Tariff with FERC

No



16 Metrics | 4 Phases

Because intrastate projects in Texas lack the level of historical data available for FERC interstate projects, our method for monitoring Permian projects cannot mirror our FERC projects methodology. Instead, we have developed and are monitoring a list of 16 different activities we believe are the best indicators of a developer's commitment to completing a project. The table below lists all 16 elements and the maximum value that is ascribed to each one. A score of 100 would be achieved once the project goes into service.

Phase 1 Progress

Activity	Announced Project	Held First Open Season	Held Second Open Season	Publicly Announced Shippers
Max Score	1	3	5	1

Phase 2 Progress

Activity	Initial Route Survey	Long Lead Items Ordered	Released Detailed Route	Final Investment Decision
Max Score	2	6	6	6

Phase 3 Progress

Activity	ROW Acquisition	Condemnation Actions	Submitted NC Request with TRRC	Submitted Permit Applications with TCEQ
Max Score	15	15	15	5

Phase 4 Progress

Activity	Construction	Filed Operator Permit with TRRC	Filed Tari. with TRRC	Filed Tariff with FERC
Max Score	14	2	2	2