

BEFORE THE PUBLIC UTILITIES COMMISSION
OF THE STATE OF SOUTH DAKOTA

IN THE MATTER OF THE APPLICATION
BY SCS CARBON TRANSPORT LLC FOR
A PERMIT TO CONSTRUCT A CARBON
DIOXIDE TRANSMISSION PIPELINE

HP22-001

**SURREBUTTAL TESTIMONY OF
RANDALL L. HARRIS
ON BEHALF OF
THE GREAT PLAINS LABORERS' DISTRICT COUNCIL**

August 31, 2023

1 **Q. Please state your name, affiliation, and address.**

2 A. My name is Randy Harris, my address is 1 North Old State Capitol Plaza, Suite 525,
3 Springfield, Illinois, 62701. I am the Director of the Laborers-Employer Cooperation and
4 Education Trust (“LECET”) for the Laborers’ International Union of North America’s
5 (“LIUNA” or the “Laborers”) Midwest Region. The Great Plains’ Laborers’ District Council
6 (“GPLDC”), which is the LIUNA affiliate in this case, covers Illinois, South Dakota, Iowa, and
7 Nebraska. LIUNA represents thousands of construction workers in the Midwest, and has local
8 offices in Sioux Falls, South Dakota. I am testifying on behalf of GPLDC.

9 **Q. Are you the same Randy Harris who previously filed testimony in this case?**

10 A. Yes.

11 **Q. What is the purpose of your surrebuttal testimony?**

12 A. I am presenting testimony in response to the rebuttal testimony of James Powell on behalf
13 of SCS Carbon Transport, LLC (“Summit” or the “Applicant”) as it relates to workforce
14 development, contractor selection, local economic benefits, and other issues he raised in
15 response to my direct testimony.

16 **Q. Please summarize Mr. Powell’s rebuttal.**

17 A. First, Mr. Powell claims a unionized workforce is not more qualified than a non-union
18 workforce in installing pipeline facilities. Second, Mr. Powell states that its chosen contractor,
19 Texas-based Pumpco, Inc., is qualified to build its Project in South Dakota, despite having
20 limited experience working in the Upper Midwest. Third, Mr. Powell testifies that South Dakota
21 lacks the labor pool to construct the Project. Fourth, Mr. Powell asserts that the economic
22 contributions arising from its capital investment in the Project is similar regardless of whether
23 the construction workforce building the Project are local and state residents, or out-of-state
24 travelers. Lastly, it appears that Mr. Powell believes GPLDC has asked the Public Utilities
25 Commission (“PUC” or “Commission”) to mandate the use of union labor on this Project. He
26 concludes his rebuttal by arguing that the PUC should not mandate the use of union labor –
27 which is a request we have not made in this case.

28 **Q. What evidence did Mr. Powell provide in support of his assertion that union**
29 **pipeline construction workers are not more qualified than non-union workers?**

30 **A.** Mr. Powell’s main evidence seems to be two-fold. First, he states that “top tier non-union
31 contractors employ a core group of craftsmen who, in many cases, are retained for years and
32 comprise the core group for all pipeline construction projects.” He states that “these individuals
33 hone their skills just as an individual in formal training or apprenticeship program.” Second, he
34 testifies that because non-union contractors allegedly perform the majority of pipeline
35 construction work in the U.S., non-union personnel theoretically have more opportunity to hone
36 their craft.

37 **Q. What evidence has GPLDC presented to document the qualifications of union**
38 **pipeline personnel?**

39 **A.** Regarding Mr. Powell’s statement that non-union contractors employ a core group of
40 craftsmen, it should be noted that this employment model is inclusive of most major pipeline
41 contractors, not just non-union contractors. All of the union pipeline contractors who are
42 signatory to the National Pipeline Agreement use this model as well. In fact, the agreement
43 explicitly permits pipeline contractors to use key personnel on projects. The key distinction is
44 that in addition to key personnel, union contractors *also* have ready access to skilled local labor
45 who have experience building pipelines or other major infrastructure projects. And, because
46 union laborers have experience working for multiple pipeline contractors, performing various
47 scopes of work in all regions of the country, they arguably have more opportunity to hone their
48 craft as compared to a non-union laborer employed by a single contractor. In addition, Mr.
49 Powell disputes our claim that union contractors have performed half of pipeline construction
50 projects in the U.S., in part because union contractors have less of a presence in Texas, where
51 many pipeline projects have been built. However, Mr. Powell does not provide any additional
52 evidence in support of this claim.

53 **Q. How did GPLDC calculate union market share in the pipeline industry?**

54 **A.** As stated in my direct testimony, we estimate we have built approximately half of all
55 major pipeline projects. To determine an approximate union market share, GPLDC reviewed
56 actual project data available on Industrial Info, a leading commercial project database that tracks

57 heavy civil projects such as pipelines. Industrial Info’s Global Market Intelligence Database
58 Platform tracks projects from announcement to operation, with key data including: estimated
59 cost of the project, project industry codes, project descriptions, key dates for procurement
60 opportunities and construction milestones, key contacts at the operator and vendor level, names
61 of companies that bid for a particular project, and names of general contractors and
62 subcontractors awarded the project, if available. At present, Industrial Info’s database is tracking
63 276,000 plant locations with 213,000 active projects worth \$19.72 trillion. The Industrial Info
64 database covers the Oil & Gas Pipeline industry, which provides project details on major capital
65 and maintenance of crude oil, refined products, natural gas, NGL, hydrogen and carbon dioxide
66 pipelines and ancillary station projects. Industrial Info’s Oil & Gas Pipeline industry coverage is
67 currently tracking 6,712 active pipeline capital and maintenance projects totaling \$434 billion,
68 and including 5,165 contractor awards.¹ Industrial Info categorizes projects by scopes of work.
69 For example, if a pipeline project is awarded in segments, each segment is considered a separate
70 project. If a pipeline project includes compressor stations, each station is considered a separate
71 project.

72 To my knowledge, there is not one master source for all pipeline projects in the U.S., much
73 less a source that has identified the contractors awarded to build each project. But, Industrial Info
74 has the most comprehensive and up-to-date project database. In order to determine union market
75 share in the pipeline industry, we analyzed major pipeline project awards, tracked by Industrial
76 Info, since 2011, and found nearly 500 pipeline projects where a pipeline contractor was
77 identified. We excluded stations from the analysis. In 49% of the projects, a union contractor was
78 identified. In 1% of the projects, a union contractor and a non-union contractor were awarded the
79 project. LIUNA also tracks major interstate natural gas transmission projects regulated by the
80 Federal Energy Regulatory Commission (“FERC”). When reviewing FERC-regulated projects,
81 union market share is even higher. To do this, we identified major projects listed on FERC’s
82 website. Then, we identified the contractor for the project by either using the Industrial Info
83 database, other pipeline industry sources, news searches, or information contained in the docket
84 on the FERC website. In cases where a contractor could be identified, 63% of those projects
85 were built by union contractors. Of all major FERC projects, a union contractor built 54% of

¹ See, <https://www.industrialinfo.com/database/pipelines/>.

86 those projects. These data correspond with our own experience, which is that the more complex,
87 regulated, higher pressure and larger diameter the transmission pipeline, the more likely it will be
88 built by union contractors. Historically, prior to the increase in onshore oil and gas production
89 tied to fracking, union contractors dominated in building major interstate pipeline projects. Since
90 onshore oil and gas production require extensive gathering and smaller diameter pipelines to
91 transport oil and natural gas from the production site to a transportation network, smaller, non-
92 union pipeline contractors grew to meet that demand. In any event, the question is not whether
93 union or non-union contractors have built the most pipeline miles across the U.S., but rather,
94 which contractors have more experience building major, larger-diameter, interstate pipeline
95 facilities in conditions similar to Summit’s proposed 2,000-mile pipeline network. And the most
96 similar pipeline projects to Summit’s are the Dakota Access Pipeline, the Keystone Pipeline, and
97 Enbridge’s Line 3. Those three projects located in the Upper Midwest were built by union
98 contractors, and union laborers.

99 **Q. Did Mr. Powell provide any additional information regarding training available to**
100 **the pipeline workforce employed to build the proposed pipeline in South Dakota?**

101 **A.** No. Mr. Powell’s rebuttal did not contain any additional information as to the training,
102 certification, or operation qualification of construction labor employed on the Project. In
103 response to a data request, Summit states, “the training and certifications necessary to conduct
104 the work will be commensurate with other pipeline projects constructed in South Dakota.”² And
105 other than a general comment likening a worker’s own individual experience honing their skills
106 to formal training and apprenticeship, he did not provide evidence to support how the two are
107 equivalent. Regardless, union pipeline laborers also have individual experiences honing their
108 skills. The difference is that union pipeline laborers are also supported by significant training and
109 apprenticeship infrastructure. And, because union laborers are compensated fairly and receive
110 portable quality health insurance and pension benefits, they are more likely than a low-wage
111 construction worker to actually make construction a career that can sustain themselves and their
112 families over the long-term.

² South Dakota Public Utilities Commission, Docket No. HP22-001, SCS Carbon Solutions, LLC’s Responses to First Set of Interrogatories of the Great Plains Laborers District Council, Oct. 5, 2022.

113 In my direct testimony, I describe the extensive training union members receive. This
114 training is *in addition* to any operator or project specific training a construction laborer would
115 receive at the jobsite. The training is administered and funded by joint labor-management
116 training funds, and updated regularly to reflect industry trends. LIUNA has been training
117 pipeline laborers for nearly 30 years, our trainers are third-party certified. Moreover, the training
118 is a hybrid of classroom and on-the-job instruction to support the needs of adult learners. In
119 addition to pipeline training, our Construction Craft Laborer registered apprenticeship program
120 requires 288 hours of classroom training, and 4,000 work hours. LIUNA views our training
121 apparatus as another tool to advocate for the pipeline industry, because we have a vested interest
122 in ensuring safe construction practices not only for our members, and the communities where
123 they reside, but because our members rely on the success and preservation of the industry. We
124 believe a commitment to the highest standards of workforce development is central to success,
125 especially as it relates to new technologies such as carbon capture.

126 **Q. What evidence did Mr. Powell provide to support Summit’s claim that its pipeline**
127 **contractor, Pumpco, has the requisite experience to install pipelines in South**
128 **Dakota?**

129 **A.** Mr. Powell’s primary argument is that Pumpco has installed more pipeline miles than any
130 other contractor. He did not, however, provide a reference source for this claim. When GPLDC
131 requested a list of Pumpco’s pipeline projects, Summit objected to the request. What Mr. Powell
132 did not rebut is the fact that, by Summit’s own admission, the vast majority of Pumpco’s pipeline
133 projects have been located in its home state of Texas. Only 1.5% of Pumpco’s total installed
134 mileage has occurred in states that are similar in climate and terrain to South Dakota.³
135 Considering the fact that Pumpco will be building the largest diameter, highest pressure
136 transmission segment of the South Dakota pipeline network, and lack of training and Pumpco
137 project disclosures by the Applicant, GPLDC stands by our concern regarding its ability to safely
138 construct pipelines in the state. Moreover, Mr. Powell did not rebut the evidence I presented of
139 documented instances of construction issues on past projects where Pumpco was the contractor.

³ According to Summit, Pumpco has installed a total of 7,500 pipeline miles in the U.S., and 115 miles of pipeline in North Dakota and Wyoming. South Dakota Public Utilities Commission, Docket No. HP22-001, SCS Carbon Solutions, LLC’s Responses to Second Set of Interrogatories of the Great Plains Laborers District Council, March 31, 2023.

140 **Q. Has Mr. Powell provided testimony regarding the experience of Precision Pipeline?**

141 **A.** Yes. In the North Dakota proceedings, at the Gwinner public hearing on March 14th, Mr.
142 Powell extolled the experience of Precision Pipeline in building pipeline facilities across the
143 Upper Midwest. He stated:

144 *When it comes to construction, especially in Sargent and Dickey Counties and along this*
145 *lateral, we're gonna employ a contractor that's a very, what I would consider a top tier*
146 *contractor in the pipeline industry. They're based out of Wisconsin. They have*
147 *constructed extensive miles – a lot of miles of pipeline in the Midwest in this part of the*
148 *country where it's cold and the conditions are not similar to other parts of the country*
149 *where a lot of pipeline activity is going on. So that contractor is very qualified,*
150 *experienced in the area.⁴*

151
152 Indeed, Precision Pipeline built segments of the Dakota Access Pipeline, and has significant
153 experience installing pipelines in the Midwest. If Sargent and Dickey Counties in North Dakota
154 are good enough for this level of top tier contractor, why can't the same pedigree of contractor
155 install the larger and higher-consequence mainline pipeline in South Dakota? As I state in my
156 direct testimony, our members generated 2.4 million work hours building the Dakota Access
157 Pipeline. Our decades of experience mean there are thousands of union members who have
158 experience installing pipelines in similar terrain and under similar conditions to the Summit
159 Project.

160 **Q. Did Mr. Powell provide any new information regarding the pipeline contractors**
161 **Summit has hired to build the Project in South Dakota?**

162 **A.** Yes. Mr. Powell disclosed that Holloman Corporation has also been selected to build
163 portions of the Project in the state.

164 **Q. Did Mr. Powell provide any evidence regarding Holloman's experience building**
165 **pipelines in the Upper Midwest?**

166 **A.** No. Mr. Powell simply identified Holloman Corporation as the third contractor selected
167 to build portions of the Project in the state.

⁴ Cross examination of James Powell for Summit Carbon Solutions, North Dakota Public Service Commission, PU-22-391.212, Electronic recording of 14 March 2023 Formal Hearing - part 1 and part 2, <https://apps.psc.nd.gov/webapps/cases/psdoCKETdetail?getId=22&getId2=391&getId3=78#>.

168 **Q. What is Holloman’s experience building pipelines in the Upper Midwest?**

169 **A.** As far as I can tell, Holloman, which is a Texas-based contractor, also has limited
170 experience building pipelines in conditions that are similar to the Summit Project. For instance,
171 we researched past pipeline projects by Holloman on Industrial Info, and found that nearly all of
172 the pipeline projects Holloman has built were in Texas. Indeed, Industrial Info only identified
173 one Holloman pipeline project outside of the southern region of the U.S. It built an 8.2-mile, 20-
174 inch gathering pipeline in Wyoming. Like Pumpco, Holloman is primarily a Texas-based
175 contractor. I have attached the project list of Holloman Oil & Gas pipeline projects that are
176 tracked by Industrial Info as Attachment 1.

177 **Q. Why is contractor selection and qualifications a relevant factor for Commission**
178 **consideration?**

179 **A.** Proper installation and construction practices are a risk mitigation measure. From trench
180 construction, pipe handling and storage, welding and coating, to backfilling, all these activities
181 affect pipeline integrity and safe operations. Summit’s own pipeline safety expert has testified to
182 this fact.⁵

183 **Q. Do other stakeholders share GPLDC’s concern regarding the employment of**
184 **pipeline contractors with limited experience building in the Upper Midwest?**

185 **A.** Yes. During the May 9th hearing in Linton, North Dakota that was conducted as part of
186 North Dakota proceeding, Curtis Jundt, a former director for WBI Gas Services with pipeline
187 construction responsibilities, and 40-year construction veteran, testified on behalf of Intervenor,
188 the John H. Warford, Jr. Revocable Trust. At the hearing, Mr. Jundt testified that risk mitigation
189 measures include selecting a contractor who has experience building pipelines under similar
190 conditions as the Summit Project. In response to questioning regarding what kind of contractor
191 should be selected to build the Project, Mr. Jundt stated:

192 *Well that’s a pretty easy question, because it was the position I always took, do you have*
193 *any experience building a pipeline, excavating and building a pipeline in the state? I had*
194 *to deal with Montana, Wyoming, and South Dakota. So my input was always I want folks*

⁵ Cross examination of John Godfrey, DNV, for Summit Carbon Solutions, North Dakota Public Service Commission, PU-22-391.212, Electronic recording of 09 May 2023 Formal Hearing - part 1 and part <https://apps.psc.nd.gov/webapps/cases/psdocketdetail?getId=22&getId2=391&getId3=212#>.

195 *who are familiar with construction practices, the soil, the weather challenges are*
196 *significant in this state. Nobody from Texas can imagine what it's like, like I can, to be in*
197 *southeast Montana in a raging snow storm clearing four feet of snow so we can lay a*
198 *gathering line at 20 below zero weather. So if we're talking about bringing contractors*
199 *up from Texas I don't think they even own any wooly underwear, but they're gonna need*
200 *more than just that. So we want folks who are experienced. In my opinion, dealing with*
201 *the challenges of construction, soils, weather, etc. in North Dakota.*⁶

202 **Q. Mr. Powell asserts that South Dakota lacks the local labor pool to build the Project.**
203 **What is your response?**

204 **A.** Mr. Powell is correct that union contractors typically source half of their workforce from
205 the local community. And although it is true that the Summit Project is larger than the Dakota
206 Access Pipeline in terms of mileage, he has not provided any specific evidence regarding the
207 lack of local labor. For instance, as I state in my direct testimony, Summit disclosed in a data
208 response that the forecasted demand for construction workers in 2024 and 2025 will exceed
209 South Dakota resources, and it has completed a labor study to identify potential deficiencies.
210 Summit, however, has objected to GPLDC data requests of that study. Importantly, S.D. Admin.
211 R. 20:10:22:2 requires the Applicant to assess the adequacy of local manpower to meet
212 construction labor requirements, and the estimated percentage of labor that will remain within
213 the state after construction is complete.

214 In any event, it is our experience that with sufficient planning, and by working in coalition
215 with labor stakeholders, it is possible to grow a local base of skilled labor. GPLDC, for example,
216 has significant experience recruiting, training, and dispatching local workers for major
217 infrastructure projects across the Upper Midwest.

218 **Q. What evidence did Mr. Powell present as it relates to the cumulative economic**
219 **impacts of the Project being comparable regardless of whether local or state**
220 **residents build the Project versus out-of-state workers?**

221 **A.** Mr. Powell did not provide any evidence to support the claim. He just asserts that
222 “regardless of whether a contractor is union or non-union, the demand for local services (food,
223 lodging, supplies, fuel, etc.) will be similar.” This is simply wrong. First, he conflates local

⁶ Cross examination of Curtis Jundt for the John H. Warford, Jr. Revocable Trust, North Dakota Public Service Commission, PU-22-391.212, Electronic recording of 09 May 2023 Formal Hearing - part 1 and part <https://apps.psc.nd.gov/webapps/cases/psdoCKETdetail?getId=22&getId2=391&getId3=212#>.

224 workers with union workers to muddy the issue. We have not argued that being a local union
225 member in and of itself creates greater economic benefits than employing a local non-union
226 worker. Rather, the issue is whether a local worker contributes more to the local and state
227 economy than a non-resident. The evidence I provided in my direct testimony illustrates that
228 employment of local workers generates economic benefits that are four- to five-times greater
229 than the benefits generated through employment of out-of-state travelers. Indeed, a report by
230 North Star Policy Action appended to my direct testimony, provides a detailed account of the
231 difference between the economic contributions of local and non-local workers. The analysis is
232 supported by academic research which found local workers spend 95% of their earnings in their
233 home communities, while out-of-state travelers typically limit their local spending to their daily
234 per diem rate which covers food and lodging. Specifically, North Star Policy Action found that if
235 half of all construction jobs in South Dakota are filled by local workers, the total economic
236 impact of the project would be \$180 million. In comparison, if only 10% of workers are local,
237 the economic impact decreases by half to \$94 million.⁷ Mr. Powell has not, in fact, rebutted the
238 findings of this report. Summit’s Ernst & Young economic impact report, by contrast, relies on
239 the wildly unrealistic assumption that 96% of the workforce will be South Dakota residents, and
240 94% are from the counties traversed by the proposed Project.

241 **Q. Mr. Powell asks if the PUC should require Summit to use union contractors. What**
242 **is your response to this?**

243 **A.** GPLDC has not asked the PUC to mandate Summit utilize union contractors. The
244 recommendations in my direct testimony relate to transparency and reporting of construction
245 workforce metrics and training disclosures for the construction workforce. Labor metrics relate
246 specifically to Summit’s claim that the Project will contribute significant economic and tax
247 impacts across the project footprint. Indeed, its Ernst & Young report alleges Summit’s capital
248 investment will create \$1.3 billion of economic output in South Dakota. As I stated above, and
249 which Summit did not rebut, the Ernst & Young analysis relies on the unrealistic assumption that
250 nearly all the workforce will come from host counties, and the state. Now, Summit is saying the
251 state doesn’t have the labor pool required to build the project, which is why it is relying on a

⁷ Jake Schwitzer and Lucas Franco, North Star Policy Action, “Capturing the Moment: A Roadmap to High-Road Carbon Capture Development,” <https://media.websitecdn.net/sites/949/2022/12/Capturing-the-Moment.pdf>.

252 traveling workforce to build the transmission segment of the pipeline network. Summit cannot
253 have it both ways. It cannot, on the one hand, claim enormous economic benefits associated with
254 utilizing local and state labor, and, on the other hand, claim there is insufficient local and state
255 labor to build the project. I reiterate our recommendations, which are as follows:

256 GPLDC recommends the Commission require Summit to provide information regarding
257 the hiring of South Dakota residents employed to build the Project. These disclosures will
258 enable a complete record in this case, and provide the Commission and stakeholders vital
259 data to evaluate community impacts. Specifically, Summit should include in its regular
260 reports to the Commission: 1) the number of and percent of total construction workers
261 who are South Dakota residents, and how this rate compares to other Project states, and
262 2) the number of and percent of total registered apprentices who are South Dakota
263 residents, and how this rate compares to other Project states. In addition to these metrics,
264 in order to ascertain potential uncompensated care impacts to local health facilities,
265 GPLDC recommends the Commission require Summit to provide before construction
266 begins, the percentage of construction workers in South Dakota who are covered by
267 employer-sponsored health insurance. Finally, in relation to training, GPLDC
268 recommends the Commission require Summit provide more detailed training disclosures
269 prior to the start of construction, including the minimum hours of training required for
270 pipeline contractor personnel, and the specific tasks in which personnel will be trained
271 on. GPLDC also recommends Summit certify in its regular reports to the Commission,
272 the number of and percent of workers who have undergone required training. We believe
273 training disclosures are needed to ensure all workers on the Project have the training and
274 certifications needed to build the pipeline facilities safely and efficiently, and because
275 Summit's pipeline contractor, Pumpco, has limited experience building pipelines in the
276 Upper Midwest.

277 **Q. Does this conclude your testimony?**

278 **A.** Yes, it does.

279

280 Dated this 31st day of August, 2023.

281

282 /s/ Randy Harris

283 Randy Harris

ATTACHMENT 1: LIST OF HOLLOMAN CORPORATION'S OIL AND GAS PIPELINE
PROJECTS, INDUSTRIAL INFO



Project Name EVANSTON PHASE II GRASSROOT SAGEBRUSH PIPELINE NORTH
Umbrella Project Name SPIRE CLEAR CREEK EXPANSION PROJECT PHASE II

[PEC Activity Diagram](#)

Umbrella Project Count 3

Umbrella Project Summary As Phase II of the Clear Creek Expansion Project, it consists of the following in Uinta County, Wyoming: (2) compressor units at the Clear Creek Plant; 7 new injection/withdrawal wells, 1.2 mile 20" well gathering pipeline, 7-miles of 20" diameter pipeline.

Industry Code 03 Oil & Gas Pipelines

Project Type Grassroot

TIV (USD) 7,000,000

SIC Code 4922 Natural Gas Transmission

Sector Natural Gas Pipelines

SIC Product 4922*0004 Natural Gas Pipelines

Status Active

Last Update 08-Jun-2023

Initial Release 15-Jan-2021

Environmental Air (A) Land (L)

Construction Labor Preference Unconfirmed

Operations Labor Preference Union, Non-Union

Project Capacity

Planned 500 MMSCF of Natural Gas Storage, Gaseous



Pipeline Installation Details

Installation Type	Pipeline Length	Unit of Measure	Pipeline Diameter	Unit of Measure
Greenfield	7	Miles (mi)	20	Inches (in)

Plant Owner Spire Storage West LLC

Plant Parent Spire Inc

Plant Name Clear Creek NG Metering Station

Unit Name

Plant ID 3443600

Location Carter Creek Road,9.8 mi NE of Evanston;NW/4 SW/4 Sec 9 T16N R119W

Phone +1 314 342 0500

City/State Evanston, Wyoming 82930 U.S.A.

Zone/County WY*05, Uinta

Project Responsibility Project Company

Project Contact

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700 Market Street
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PEC® Timing C1

PEC® Activity Construction - Merit Shop

Project Probability High (81-99%)

Scope Spire Incorporated awards AECOM (Environmental Consultants) and Holloman Corporation (EPC) and continues with Construction for a Grassroot Natural Gas Pipeline. DETAILS: As part of Phase III of the Clear Creek Expansion Project, Construct a 7-mile, 20" diameter natural gas pipeline known as the Sagebrush Pipeline North to transport 500MMSCFD of natural gas between the Canyon Creek Compressor Station (3180096) and the Clear Creek Gas Plant (3333625). REQUIRES: Trenching, Excavating, 20" Diameter Transmission Pipe, Cathodic Protection, Automatic Control Systems, Pig Launching & Receiving, Custody Transfers, Coatings, Block/Control Valves, Metering, MCC Mods, Tap Valves, Electrical Utilities plus Controls. ENVIRONMENTAL: (A) Leak Detection, Flares; (L) Leak Containment, Liners.

Schedule Spire with AECOM and Holloman continues with Construction Activities and releases remaining Equipment RFQ's and Bid Documents plus review and select Subcontractors as needed 2Q23 (Jun) through 3Q23 (Jul). Construction Commenced 2Q23 (Jun). Scheduled Project Completion 4Q23 (Dec).

Project Milestones

Long-Lead	AFE 202301	Sub Bid Doc 202307	Completion 15-Dec-2023	Precision QUARTER
202105	Equip RFQ 202306	Kick-Off 202306	Kickoff Slippage 20 Months	Duration 7 Months

Engineering

Contracting

Project Key Needs

Civil/Site	Electrical	Environmental	Instrumentation	Mechanical
Instrumentation	Electrical	Mechanical	NDE	
Piping/Fittings	Insulation/Coatings	Environmental Utilities	Valves	Pumps
Communications				Transportation

Matter Phase Gas

Energy

Buy Electricity

Sell

Historical Reports

Project Name	Report Date	TIV	Phase
SPIRE CLEAR CREEK NATURAL GAS GRASSROOT TRANSMISSION PIPELINE	15-Jan-2021	12,000,000 USD	Permitting (P2 - 18)

SPIRE CLEAR CREEK NATURAL GAS GRASSROOT TRANSMISSION PIPELINE	13-Aug-2021	12,000,000 USD	Permitting (P2 - 18)
SPIRE CLEAR CREEK NATURAL GAS GRASSROOT TRANSMISSION PIPELINE	04-Oct-2021	12,000,000 USD	Permitting (P2 - 18)
SPIRE CLEAR CREEK NATURAL GAS GRASSROOT TRANSMISSION PIPELINE	07-Apr-2022	12,000,000 USD	Permitting (P2 - 18)
SPIRE CLEAR CREEK NATURAL GAS GRASSROOT TRANSMISSION PIPELINE	11-Apr-2022	12,000,000 USD	Permitting (P2 - 18)
EVANSTON PHASE II GRASSROOT SAGEBRUSH PIPELINE NORTH	27-Jun-2022	7,000,000 USD	Permitting (P2 - 18)
EVANSTON PHASE II GRASSROOT SAGEBRUSH PIPELINE NORTH	27-Jan-2023	7,000,000 USD	Planning and Scheduling (E2 - 25)
EVANSTON PHASE II GRASSROOT SAGEBRUSH PIPELINE NORTH	06-Jun-2023	7,000,000 USD	Planning and Scheduling (E2 - 25)
EVANSTON PHASE II GRASSROOT SAGEBRUSH PIPELINE NORTH	08-Jun-2023	7,000,000 USD	Construction - Merit Shop (C1 - 36)

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Project Name ARNAUDVILLE NATURAL GAS COMPRESSOR STATION MODIFICATIONS

[PEC Activity Diagram](#)

Industry Code 03 Oil & Gas Pipelines

Project Type Upgrade

TIV (USD) 8,000,000

SIC Code 4922 Natural Gas Transmission

Sector Natural Gas Pipelines

SIC Product 4922*0006 Natural Gas Compressor Stations

Status Complete / Done

Last Update 15-Sep-2022

Initial Release 26-May-2021

Environmental Air (A) Land (L)

Construction Labor Preference Unconfirmed

Operations Labor Preference Non-Union



Project Capacity Planned 75 MMSCFD of Natural Gas, Gaseous (Methane)

Plant Owner Gulf South Pipeline Company LP

Plant Parent Boardwalk Pipeline Partners LP

Plant Name Arnaudville Natural Gas Compressor Station

Unit Name

Plant ID 1039577

Location 304 Par Road 3-60

Phone +1 337 988 6898

City/State Arnaudville, Louisiana 70512 U.S.A.

Zone/County LA*01, Saint Landry

Project Responsibility Project Company

Project Contact

Project Manager Gulf South Pipeline Company LLC
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U.S.A.

Keith Freeman
Facilities Engineer
[Tel.] +1 713 479 8139
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Project Manager Gulf South Pipeline Company LLC
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333 North Sam Houston Parkway East Suite 600
Houston, Texas 77060
U.S.A.

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[Tel.] +1 281 878 2600
[E-Mail] justinschwausch@hollomancorp.com (!)

PEC® Timing C1

PEC® Activity Completion/Start-Up

Project Probability Completed (100%)

Scope Gulf South Pipeline (Subsidiary of Boardwalk Pipeline) awards Holloman Corporation (G/C) and proceeds with Construction on Arnaudville Natural Gas Compressor Station Modifications. DETAILS: Modify station piping and aux equipment (Pig Launcher & Receiver facilities), add impellers, re-stage centrifugal compressors and install new valve assemblies to permit bi-directional flow of natural gas southbound on Gulf South existing 12" mainline pipeline system in LA. REQUIRES: Foundations, MCC Modifications, Headers, Station Piping, Control Valves, SCADA, Manifolds, Condensers, Coatings, Electrical Utilities plus Controls. ENVIRONMENTAL: (A) Leak Detection; (L) Containment.

Schedule Gulf South in Conjunction with Holloman continues with Construction Activities and releases remaining Equipment RFQ's and Bid Documents plus review and select Subcontractors 1Q22 (Mar) through 2Q22 (Apr). Construction Commenced 1Q22 (Mar). Scheduled Project Completion 3Q22 (Sep).

Project Milestones	AFE 202201	Sub Bid Doc 202204	Completion 01-Sep-2022	Precision QUARTER
Long-Lead 202104	Equip RFQ 202203	Kick-Off 202203	Kickoff Slippage 2 Months	Duration 7 Months
Engineering Contracting	Electrical	Environmental	Instrumentation	Mechanical
Project Key Needs	Civil/Site	Control Room		
	Instrumentation	Electrical	Mechanical	NDE
	Piping/Fittings	Insulation/Coatings	Environmental Utilities	Valves
	Communications			Pumps

Matter Phase Gas

Energy

Buy Electricity

Sell

Project Fuel Type Natural Gas

Plant Standard Contacts

Functional/Actual Title	Contact Name/E-mail	Telephone/On-site	QC Date/LinkedIn ID
Plant Manager	Brian Johnson	[Phn.] +1 337 224 1832 / [Alt.] +1 337 988 7105	Aug-2023
Area Manager	brian.johnson@bwpipelines.com	No	
Maintenance Manager	Brian Johnson	[Phn.] +1 337 224 1832 / [Alt.] +1 337 988 7105	Aug-2023
Area Manager	brian.johnson@bwpipelines.com	No	
Purchasing Manager	Rhonda Matthews	[Phn.] +1 713 479 8000	Aug-2023

	rhonda.matthews@bwpmlp.com	No	rhonda-matthews-1972158
Engineering Manager	Erek Rhinewalt	[Phn.] +1 713 479 8000	Aug-2023
Project Manager		No	
Environmental Manager	Daniel O'Chery	[Phn.] +1 337 988 7106	Aug-2023
Supervisor, Environmental Compliance	Daniel.OChery@bwpipelines.com	No	daniel-o-b0898582
Safety Manager	Garry Dick	[Phn.] +1 713 479 8108	Aug-2023
Regional Safety Leader	garry.dick@bwpipelines.com	No	garry-dick-csho-2296b320
Utilities Manager	Brian Johnson	[Phn.] +1 337 224 1832 / [Alt.] +1 337 988 7105	Aug-2023
Area Manager	brian.johnson@bwpipelines.com	No	
Human Resource Manager	Tom Reggi	[Phn.] +1 713 479 8000	Aug-2023
	tom.reggi@bwpmlp.com	No	tom-reggi-5b0a46b

Historical Reports

Project Name	Report Date	TIV	Phase
ARNAUDVILLE NATURAL GAS COMPRESSOR STATION MODIFICATIONS	26-May-2021	8,000,000 USD	Permitting (P2 - 18)
ARNAUDVILLE NATURAL GAS COMPRESSOR STATION MODIFICATIONS	26-Oct-2021	8,000,000 USD	Planning and Scheduling (E2 - 25)
ARNAUDVILLE NATURAL GAS COMPRESSOR STATION MODIFICATIONS	15-Mar-2022	8,000,000 USD	Construction - Merit Shop (C1 - 36)
ARNAUDVILLE NATURAL GAS COMPRESSOR STATION MODIFICATIONS	15-Sep-2022	8,000,000 USD	Completion/Start-Up (C1 - 41)



Project Name CENTERVILLE NATURAL GAS COMPRESSOR STATION MODIFICATIONS [PEC Activity Diagram](#)
Industry Code 03 Oil & Gas Pipelines **Project Type** Upgrade
TIV (USD) 8,000,000
SIC Code 4922 Natural Gas Transmission **Sector** Natural Gas Pipelines
SIC Product 4922*0006 Natural Gas Compressor Stations
Status Complete / Done **Last Update** 08-Aug-2022 **Initial Release** 26-May-2021
Environmental Air (A) Land (L) **Construction Labor Preference** Unconfirmed
Operations Labor Preference Non-Union



Project Capacity **Planned** 75 MMSCFD of Natural Gas, Gaseous (Methane)

Plant Owner Gulf South Pipeline Company LLC **Plant Parent** Boardwalk Pipeline Partners LP
Plant Name Bayou Sale Natural Gas Compressor Station **Unit Name**
Plant ID 1039554
Location Highway 90 East Service Road **Phone** +1 225 869 3367
City/State Centerville, Louisiana 70522 **Zone/County** LA*01, Saint Mary U.S.A.

Project Responsibility Project Company

Project Manager	Project Contact
Gulf South Pipeline Company LLC 9 Greenway Plaza Suite 2800 Houston, Texas 77046 U.S.A.	Keith Freeman Facilities Engineer [Tel.] +1 713 479 8139 [E-Mail] keith.freeman@bwpipelines.com ; [LinkedIn] keith-freeman-44924582
Gulf South Pipeline Company LLC 20 East Greenway Plaza Suite 900 Houston, Texas 77046 U.S.A.	Cale LeBlanc Environmental Project Manager [Tel.] +1 225 282 0389 [E-Mail] cale.leblanc@bwpipelines.com
Gulf South Pipeline Company LLC 9 Greenway Plaza Suite 2800 Houston, Texas 77046 U.S.A.	Juan Eligio Permit Engineer [Tel.] +1 713 479 3480 [E-Mail] juan.eligio@bwpmlp.com
G/C Holloman Corporation 333 North Sam Houston Parkway East Suite 600 Houston, Texas 77060 U.S.A.	Justin Schwausch Project Estimator [Tel.] +1 281 878 2600 [E-Mail] justinschwausch@hollomancorp.com (!)

PEC® Timing C1

PEC® Activity Completion/Start-Up

Project Probability Completed (100%)

Scope Gulf South Pipeline (Subsidiary of Boardwalk Pipeline) awards Holloman Corporation (G/C) and proceed with Construction on Centerville Natural Gas Compressor Station Modifications. DETAILS: Modify station piping and aux equipment (Pig Launcher & Receiver facilities), add impellers, re-stage centrifugal compressors and install new valve assemblies to permit bi-directional flow of natural gas southbound on Gulf South existing 12" mainline pipeline system in LA. REQUIRES: Foundations, MCC Modifications, Headers, Station Piping, Control Valves, SCADA, Manifolds, Condensers, Coatings, Electrical Utilities plus Controls. ENVIRONMENTAL: (A) Leak Detection; (L) Containment.

Schedule Gulf South in Conjunction with Holloman continues with Construction Activities and releases remaining Equipment RFQ's and Bid Documents plus review and select Subcontractors 1Q22 (Mar) through 2Q22 (Apr). Construction Commenced 1Q22 (Mar). Scheduled Project Completion 3Q22 (Aug).

Project Milestones **AFE** 202110 **Sub Bid Doc** 202204 **Completion** 01-Aug-2022 **Precision** QUARTER
Long-Lead 202104 **Equip RFQ** 202203 **Kick-Off** 202203 **Kickoff Slippage** 2 Months **Duration** 6 Months

Engineering Contracting Electrical Environmental Instrumentation Mechanical
Project Key Needs Control Room
 Instrumentation Electrical Mechanical NDE
 Piping/Fittings Insulation/Coatings Environmental Utilities Valves Pumps
 Communications

Matter Phase Gas

Energy

Buy Electricity

Sell

Project Fuel Type Natural Gas

Plant Standard Contacts

Functional/Actual Title	Contact Name/E-mail	Telephone/On-site	QC Date/LinkedIn ID
Plant Manager	Robert 'Bobby' Wade	[Phn.] +1 225 869 3367 No	Oct-2022 robert-wade-b092b83b
Maintenance Manager	Robert 'Bobby' Wade	[Phn.] +1 225 869 3367	Oct-2022
Area Manager - Baton Rouge, LA		No	robert-wade-b092b83b

Purchasing Manager	Darren Gray darren.gray@bwpmlp.com	[Phn.] +1 318 878 5279 / [Alt.] +1 318 376 2092 No	Oct-2022
Engineering Manager	Bobby Wade	[Phn.] +1 337 585 6045 x1001 Yes	Oct-2022
Environmental Manager	Rodney Lee rodney.lee@bwpipelines.com	[Phn.] +1 713 479 3400 No	Oct-2022
Safety Manager	Garry Dick garry.dick@bwpipelines.com	[Phn.] +1 713 479 3400 No	Oct-2022 garry-dick-csho-2296b320
Utilities Manager	Robert 'Bobby' Wade	[Phn.] +1 225 869 3367	Oct-2022
Area Manager - Baton Rouge, LA		No	robert-wade-b092b83b
Human Resource Manager	Bridget Harris	[Phn.] +1 713 479 3400 No	Oct-2022

Historical Reports

Project Name	Report Date	TIV	Phase
CENTERVILLE NATURAL GAS COMPRESSOR STATION MODIFICATIONS	26-May-2021	8,000,000 USD	Permitting (P2 - 18)
CENTERVILLE NATURAL GAS COMPRESSOR STATION MODIFICATIONS	26-Oct-2021	8,000,000 USD	Planning and Scheduling (E2 - 25)
CENTERVILLE NATURAL GAS COMPRESSOR STATION MODIFICATIONS	31-Mar-2022	8,000,000 USD	Construction - Merit Shop (C1 - 36)
CENTERVILLE NATURAL GAS COMPRESSOR STATION MODIFICATIONS	08-Aug-2022	8,000,000 USD	Completion/Start-Up (C1 - 41)



Project Name DELHI NATURAL GAS COMPRESSOR STATION MODIFICATIONS
Industry Code 03 Oil & Gas Pipelines
TIV (USD) 8,000,000
SIC Code 4922 Natural Gas Transmission
SIC Product 4922*0006 Natural Gas Compressor Stations
Status Complete / Done
Environmental Air (A) Land (L)
Project Capacity Planned 75 MMSCFD of Natural Gas, Gaseous (Methane)

Project Type Plant Expansion
Sector Natural Gas Pipelines
Last Update 15-Jul-2022
Initial Release 26-May-2021
Construction Labor Preference Unconfirmed
Operations Labor Preference Non-Union

[PEC Activity Diagram](#)



Plant Owner Gulf South Pipeline Company LLC
Plant Name Delhi Natural Gas Compressor Station
Plant ID 1071174
Location 7285 Highway 17
City/State Delhi, Louisiana 71232 U.S.A.
Plant Parent Boardwalk Pipeline Partners LP
Unit Name
Phone +1 318 878 5674
Zone/County LA*04, Richland

Project Responsibility Project Company

Project Manager Gulf South Pipeline Company LLC
 9 Greenway Plaza Suite 2800
 Houston, Texas 77046
 U.S.A.

Project Contact

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 Facilities Engineer
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 [LinkedIn] keith-freeman-44924582

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PEC® Timing C1

PEC® Activity Completion/Start-Up

Project Probability Completed (100%)

Scope Gulf South Pipeline (Subsidiary of Boardwalk Pipeline) awards Holloman Corporation (G/C) and proceeds with Construction on Delhi Natural Gas Compressor Station Modifications. DETAILS: Modify station piping and aux equipment (Pig Launcher & Receiver facilities), add impellers, restage centrifugal compressors and install new valve assemblies to permit bi-directional flow of natural gas southbound on Gulf South existing 12" mainline pipeline system in LA. REQUIRES: Foundations, MCC Modifications, Headers, Station Piping, Control Valves, SCADA, Manifolds, Condensers, Coatings, Electrical Utilities plus Controls. ENVIRONMENTAL: (A) Leak Detection; (L) Containment.

Schedule Gulf South in Conjunction with Holloman continues with Construction Activities and releases remaining Equipment RFQ's and Bid Documents plus review and select Subcontractors 1Q22 (Feb) through 1Q22 (Mar). Construction Commenced 1Q22 (Feb). Scheduled Project Completion 3Q22 (Jul).

Project Milestones	AFE 202110	Sub Bid Doc 202203	Completion 01-Jul-2022	Precision QUARTER
Long-Lead 202104	Equip RFQ 202202	Kick-Off 202202	Kickoff Slippage 1 Months	Duration 6 Months
Engineering			Instrumentation	
Contracting Civil	Electrical	Environmental	Instrumentation Mechanical	
Project Key Needs		Control Room		
	Instrumentation	Electrical	Mechanical	NDE
	Piping/Fittings	Insulation/Coatings	Environmental Utilities	Valves
	Communications			Pumps

Matter Phase Gas

Energy

Buy Electricity

Sell

Project Fuel Type Natural Gas

Plant Standard Contacts

Functional/Actual Title	Contact Name/E-mail	Telephone/On-site	QC Date/LinkedIn ID
Plant Manager	Darren Gray	[Phn.] +1 318 878 5279 / [Alt.] +1 318 376 2092	Nov-2022
	darren.gray@bwpmlp.com	No	
Maintenance Manager	Darren Gray	[Phn.] +1 318 878 5279 / [Alt.] +1 318 376 2092	Nov-2022
	darren.gray@bwpmlp.com	No	
Purchasing Manager	Darren Gray	[Phn.] +1 318 878 5279 / [Alt.] +1 318 376 2092	Nov-2022

	darren.gray@bwpmlp.com	No	
Engineering Manager	Sidney Varnell	[Phn.] +1 318 253 7108 / [Alt.] +1 270 688 6276	Nov-2022
	sidney.varnell@bwpmlp.com	No	
Environmental Manager	Kerry Bruce	[Phn.] +1 713 479 8076	Nov-2022
	carrie.bruce@bwpmlp.com	No	kerry-bruce-99860693
Safety Manager	Garry Dick	[Phn.] +1 713 479 8000	Nov-2022
	garry.dick@bwpipelines.com	No	garry-dick-csho-2296b320
Utilities Manager	Darren Gray	[Phn.] +1 318 878 5279 / [Alt.] +1 318 376 2092	Nov-2022
Utility Manager	darren.gray@bwpmlp.com	No	
Human Resource Manager	Suzanne Gilbert	[Phn.] +1 713 479 8000	Nov-2022
	suzanne.gilbert@bwpmlp.com	No	suzannegilbert

Historical Reports

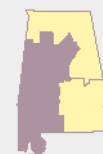
Project Name	Report Date	TIV	Phase
DELHI NATURAL GAS COMPRESSOR STATION MODIFICATIONS	26-May-2021	8,000,000 USD	Permitting (P2 - 18)
DELHI NATURAL GAS COMPRESSOR STATION MODIFICATIONS	26-Oct-2021	8,000,000 USD	Planning and Scheduling (E2 - 25)
DELHI NATURAL GAS COMPRESSOR STATION MODIFICATIONS	09-Feb-2022	8,000,000 USD	Construction - Merit Shop (C1 - 36)
DELHI NATURAL GAS COMPRESSOR STATION MODIFICATIONS	15-Jul-2022	8,000,000 USD	Completion/Start-Up (C1 - 41)

*Any data highlighted in red below is data that has been added or updated in the last release of the project



Project Name MOBIL NATURAL GAS COMPRESSOR STATION MODIFICATIONS
Industry Code 03 Oil & Gas Pipelines **Project Type** Upgrade
TIV (USD) 8,000,000
SIC Code 4922 Natural Gas Transmission **Sector** Natural Gas Pipelines
SIC Product 4922*0006 Natural Gas Compressor Stations
Status Complete / Done **Last Update** 12-Jul-2022 **Initial Release** 27-May-2021
Environmental Air (A) Land (L) **Construction Labor Preference** Unconfirmed
Operations Labor Preference Non-Union

[PEC Activity Diagram](#)



Project Capacity **Installed** 75 MMSCFD of Natural Gas, Gaseous (Methane)

Plant Owner Gulf South Pipeline Company LLC **Plant Parent** Boardwalk Pipeline Partners LP
Plant Name Airport Junction Natural Gas Compressor Station **Unit Name**
Plant ID 1074805
Location 13451 Airport Boulevard **Phone** +1 713 479 8000
City/State Mobile, Alabama 36602 U.S.A. **Zone/County** AL*01, Mobile

Project Responsibility Project Company

Project Manager Gulf South Pipeline Company LLC
 9 Greenway Plaza Suite 2800
 Houston, Texas 77046
 U.S.A.

Project Contact

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 [LinkedIn] keith-freeman-44924582

Project Manager Gulf South Pipeline Company LLC
 20 East Greenway Plaza Suite 900
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 [E-Mail] juan.eligio@bwpmlp.com

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PEC® Timing C1

PEC® Activity Completion/Start-Up

Project Probability Completed (100%)

Scope Gulf South Pipeline (Subsidiary of Boardwalk Pipeline) awards Holloman Corporation (G/C) and proceeds with Construction on Mobil Natural Gas Compressor Station Modifications. DETAILS: Modify station piping and aux equipment (Pig Launcher & Receiver facilities), install multiple piping upgrades, replace control valve equipment, add extension to suction headers and valves assemblies and modify valves and yard piping to permit bi-directional flow of natural gas southbound on Gulf South existing 12" mainline pipeline system in LA. REQUIRES: Foundations, MCC Modifications, Headers, Station Piping, Control Valves, SCADA, Manifolds, Condensers, Coatings, Electrical Utilities plus Controls. ENVIRONMENTAL: (A) Leak Detection; (L) Containment.

Schedule Gulf South in Conjunction with Holloman continues with Construction Activities and releases remaining Equipment RFQ's and Bid Documents plus review and select Subcontractors 1Q22 (Jan) through 1Q22 (Feb). Construction Commenced 1Q22 (Jan). Scheduled Project Completion 3Q22 (Jul).

Project Milestones **AFE** 202108 **Sub Bid Doc** 202102 **Completion** 07-Jul-2022 **Precision** QUARTER
Long-Lead 202104 **Equip RFQ** 202201 **Kick-Off** 202201 **Kickoff Slippage** 0 Months **Duration** 7 Months

Engineering Contracting Electrical Environmental Instrumentation Mechanical
Project Key Needs Civil/Site Control Room
 Instrumentation Electrical Mechanical NDE
 Piping/Fittings Insulation/Coatings Environmental Utilities Valves Pumps
 Communications

Matter Phase Gas

Energy

Buy Electricity

Sell

Project Fuel Type Natural Gas

Plant Standard Contacts

Functional/Actual Title	Contact Name/E-mail	Telephone/On-site	QC Date/LinkedIn ID
Plant Manager	Mitch Whitehead	[Phn.] +1 713 479 8000	Oct-2022
Gas Control	mitch.whitehead@bwpmlp.com	No	mitch-whitehead-71283015
Maintenance Manager	Kimberly Tarr	[Phn.] +1 713 479 8069	Oct-2022
Engineering Manager	kimberly.tarr@bwpipelines.com	No	kimberly-tarr-97492818

Purchasing Manager	Mitch Whitehead	[Phn.] +1 270 688 6840	Oct-2022
Gas Control	mitch.whitehead@bwpmlp.com	No	mitch-whitehead-71283015
Engineering Manager	Julie Mondelli	[Phn.] +1 713 479 8000	Oct-2022
VP, BLM Operations & Engineering	julie_mondelli@bwpmlp.com	No	julie-mondelli-17b98a4
Environmental Manager	Rodney Lee	[Phn.] +1 713 479 8114	Oct-2022
	rodney.lee@bwpipelines.com	No	
Safety Manager	Gary Dick	[Phn.] +1 713 479 8108	Oct-2022
	garry.dick@bwpmlp.com	No	
Utilities Manager	Kimberly Tarr	[Phn.] +1 713 479 8069	Oct-2022
Engineering Manager	kimberly.tarr@bwpipelines.com	No	kimberly-tarr-97492818
Human Resource Manager	Suzanne Gilbert	[Phn.] +1 713 479 8000	Oct-2022
	suzanne.gilbert@bwpipelines.com	No	suzannegilbert

Historical Reports

Project Name	Report Date	TIV	Phase
MOBIL NATURAL GAS COMPRESSOR STATION MODIFICATIONS	27-May-2021	8,000,000 USD	Permitting (P2 - 18)
MOBIL NATURAL GAS COMPRESSOR STATION MODIFICATIONS	15-Jul-2021	8,000,000 USD	Permitting (P2 - 18)
MOBIL NATURAL GAS COMPRESSOR STATION MODIFICATIONS	10-Aug-2021	8,000,000 USD	Preliminary Engineering (E2 - 22)
MOBIL NATURAL GAS COMPRESSOR STATION MODIFICATIONS	14-Feb-2022	8,000,000 USD	Construction - Merit Shop (C1 - 36)
MOBIL NATURAL GAS COMPRESSOR STATION MODIFICATIONS	12-Jul-2022	8,000,000 USD	Completion/Start-Up (C1 - 41)

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Sell

Project Fuel Type Natural Gas

Plant Standard Contacts			
Functional/Actual Title	Contact Name/E-mail	Telephone/On-site	QC Date/LinkedIn ID
Plant Manager	John Scarborough	[Phn.] +1 601 684 5592	Jan-2023
		No	
Maintenance Manager	John Scarborough	[Phn.] +1 601 684 5592	Jan-2023
Plant Manager		No	
Purchasing Manager	John Scarborough	[Phn.] +1 601 684 5592	Jan-2023
Plant Manager		No	
Engineering Manager	John Scarborough	[Phn.] +1 601 684 5592	Jan-2023
Plant Manager		No	
Environmental Manager	Cale LeBlanc	[Phn.] +1 225 282 0389 / [Alt.] +1 985 791 8395	Jan-2023
Environmental Project Manager	cale.leblanc@bwpipelines.com	No	
Safety Manager	John Scarborough	[Phn.] +1 601 684 5592	Jan-2023
Plant Manager		No	
Utilities Manager	John Scarborough	[Phn.] +1 601 684 5592	Jan-2023
Plant Manager		No	
Human Resource Manager	Tom Reggi	[Phn.] +1 713 479 8000	Jan-2023
Human Resource Director	tom.reggi@bwpmlp.com	No	tom-reggi-5b0a46b

Historical Reports

Project Name	Report Date	TIV	Phase
HATTIESBURG LAMAR COUNTY GRASSROOT NATURAL GAS COMPRESSOR STATION	17-Jan-2020	30,000,000 USD	Permitting (P2 - 18)
HATTIESBURG LAMAR COUNTY GRASSROOT NATURAL GAS COMPRESSOR STATION	27-May-2020	30,000,000 USD	Permitting (P2 - 18)
HATTIESBURG LAMAR COUNTY GRASSROOT NATURAL GAS COMPRESSOR STATION	15-Sep-2020	30,000,000 USD	Permitting (P2 - 18)
HATTIESBURG LAMAR COUNTY GRASSROOT NATURAL GAS COMPRESSOR STATION	17-Sep-2020	30,000,000 USD	Planning and Scheduling (E2 - 25)
HATTIESBURG LAMAR COUNTY GRASSROOT NATURAL GAS COMPRESSOR STATION	05-Jan-2021	30,000,000 USD	Planning and Scheduling (E2 - 25)
HATTIESBURG LAMAR COUNTY GRASSROOT NATURAL GAS COMPRESSOR STATION	21-Jan-2021	30,000,000 USD	Construction - Merit Shop (C1 - 36)
HATTIESBURG LAMAR COUNTY GRASSROOT NATURAL GAS COMPRESSOR STATION	07-Jun-2021	30,000,000 USD	Construction - Merit Shop (C1 - 36)
HATTIESBURG LAMAR COUNTY GRASSROOT NATURAL GAS COMPRESSOR STATION	30-Nov-2021	30,000,000 USD	Construction - Merit Shop (C1 - 36)
HATTIESBURG LAMAR COUNTY GRASSROOT NATURAL GAS COMPRESSOR STATION	15-Dec-2021	30,000,000 USD	Construction - Merit Shop (C1 - 36)
HATTIESBURG LAMAR COUNTY GRASSROOT NATURAL GAS COMPRESSOR STATION	14-Jan-2022	30,000,000 USD	Completion/Start-Up (C1 - 41)



Project Name PINEVILLE M100 MARKSVILLE COMPRESSOR STATION UNIT ADDITION

[PEC Activity Diagram](#)

Industry Code 03 Oil & Gas Pipelines

Project Type Unit Addition

TIV (USD) 35,000,000

SIC Code 4922 Natural Gas Transmission

Sector Natural Gas Pipelines

SIC Product 4922*0006 Natural Gas Compressor Stations

Status Complete / Done

Last Update 15-Dec-2021

Initial Release 29-Apr-2021

Environmental Air (A) Land (L)

Construction Labor Preference Unconfirmed

Operations Labor Preference Non-Union



Project Capacity Installed 150 MMSCFD of Natural Gas, Gaseous (Methane)

Plant Owner Gulf South Pipeline Company LLC

Plant Parent Loews Pipeline Holding Corporation

Plant Name Marksville Natural Gas Compressor Station

Unit Name Marksville 01 CT

Plant ID 1039083

Location 195 United Gas Lane

Phone +1 318 253 7108

City/State Pineville, Louisiana 71360-1109 U.S.A.

Zone/County LA*01, Avoyelles

Project Responsibility Project Company

Project Contact

Project Manager Gulf South Pipeline Company LLC
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PEC® Timing C1

PEC® Activity Completion/Start-Up

Project Probability Completed (100%)

Scope Gulf South Pipeline (subsidiary of Boardwalk Pipelines) awards Holloman Corporation (G/C) and proceeds with Construction on Marksville Compressor Station Unit Addition. DETAILS: M100 Project, replace four reciprocating compressor units totaling 13,200 HP with (1) 13,058 HP Solar Mars 90 turbine-driven compressor gas package with auxiliary equipment to transport up to 150MMSCFD of natural gas at Marksville Compressor Station in Avoyelles Parish, LA. REQUIRES: Steel-Frame Building, Turbine-Driven Compressor Gas Package, Coatings, MCC Mods, Flanges, Piping, Block/Control Valves, Mainline Taps, Utilities and Controls. ENVIRONMENTAL: (A) Leak Detection, (L) Containment.

Schedule Gulf South in conjunction with Holloman continues with Construction Activities and releases remaining Equipment RFQs and Bid Documents plus review and select Subcontractors 2Q21 (Apr) through 2Q21 (Jun). Construction Commenced 2Q21 (Apr). Scheduled Project Competition 4Q21 (Dec).

Project Milestones	Long-Lead	Equip RFQ	AFE	Sub Bid Doc	Completion	Precision
	202008	202104	202102	202106	02-Nov-2021	QUARTER
				Kick-Off	Kickoff Slippage	Duration
				202104	0 Months	8 Months
Engineering						
Contracting		Electrical	Environmental		Mechanical	
Project Key Needs	Civil/Site	Structural				
	Instrumentation	Electrical	Mechanical		NDE	
	Piping/Fittings	Insulation/Coatings	Environmental	Utilities	Valves	Pumps
	Communications					
Matter Phase	Gas					
Energy				Turbine		
Buy	Electricity					
Sell						
Project Fuel Type	Natural Gas					

Plant Standard Contacts

Functional/Actual Title	Contact Name/E-mail	Telephone/On-site	QC Date/LinkedIn ID
Plant Manager	Frank Wilhite frank.wilhite@bwpmlp.com	[Phn.] +1 318 495 3272 Yes	Nov-2022
Maintenance Manager	Larry Estis larry.estis@bwpmlp.com	[Phn.] +1 318 495 3272 Yes	Nov-2022
Purchasing Manager	Frank Wilhite frank.wilhite@bwpmlp.com	[Phn.] +1 318 495 3272 Yes	Nov-2022
Engineering Manager	Frank Wilhite frank.wilhite@bwpmlp.com	[Phn.] +1 318 495 3272 Yes	Nov-2022

Environmental Manager	Rodney Lee	[Phn.] +1 713 479 8114	Nov-2022
	rodney.lee@bwpipelines.com	No	
Safety Manager	Garry Dick	[Phn.] +1 713 479 8000	Nov-2022
	garry.dick@bwpipelines.com	No	garry-dick-csho-2296b320
Utilities Manager	Larry Estis	[Phn.] +1 318 495 3272	Nov-2022
	larry.estis@bwpmlp.com	Yes	
Human Resource Manager	Suzanne Gilbert	[Phn.] +1 713 479 8000	Nov-2022
	suzanne.gilbert@bwpipelines.com	No	suzannegilbert

Historical Reports

Project Name	Report Date	TIV	Phase
PINEVILLE M100 MARKSVILLE COMPRESSOR STATION UNIT ADDITION	29-Apr-2021	35,000,000 USD	Construction - Merit Shop (C1 - 36)
PINEVILLE M100 MARKSVILLE COMPRESSOR STATION UNIT ADDITION	15-Dec-2021	35,000,000 USD	Completion/Start-Up (C1 - 41)

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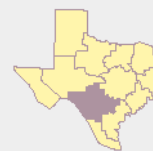
Project Name MCCAMEY CACTUS PIPELINE GRASSROOT CRUDE OIL PIPELINE
Umbrella Project Name CACTUS PIPELINE PROJECT

[PEC Activity Diagram](#)

Umbrella Project Count 3

Umbrella Project Summary

Industry Code 03 Oil & Gas Pipelines **Project Type** Grassroot
TIV (USD) 300,000,000
SIC Code 4612 Crude Petroleum Pipelines **Sector** Crude Pipelines
SIC Product 4612*0001 Crude Oil Pipelines
Status Complete / Done **Last Update** 09-Dec-2020 **Initial Release** 25-Apr-2013
Environmental Air (A) Land (L) **Construction Labor Preference** Unconfirmed
Operations Labor Preference Non-Union



Pipeline Installation Details

Installation Type	Pipeline Length	Unit of Measure	Pipeline Diameter	Unit of Measure
Greenfield	310 Miles (mi)		20 Inches (in)	

Plant Owner Plains All American Pipeline LP **Plant Parent** Plains All American Pipeline LP
Plant Name Rock Springs Crude Oil Pump Station **Unit Name**
Plant ID 3088763
Location Southwest of Rock Springs,Just west of 277 and East of 163 **Phone** +1 713 646 4100
City/State Del Rio, Texas 78880 U.S.A. **Zone/County** TX*09, Val Verde

Project Responsibility Project Company

Project Contact

Project Manager Plains All American Pipeline LP 333 Clay Road Suite 1600 Houston, Texas 77002 U.S.A.	William Crochet Project Manager [Tel.] +1 713 646 4100 [LinkedIn] william-crochet-50a25b146
Project Manager Plains All American Pipeline LP 333 Clay Road Suite 1600 Houston, Texas 77002 U.S.A.	Mark Sides Project Manager [Tel.] +1 713 646 4100 [E-Mail] mgsides@paalp.com
Eng Willbros Engineering 400 Inverness Suite 400 Englewood, Colorado 80112 U.S.A.	Jennifer Banks Project Manager [Tel.] +1 303 790 1200
Eng Willbros Engineering 400 Inverness Suite 400 Englewood, Colorado 80112 U.S.A.	Steve Beier Project Manager [Tel.] +1 303 790 1200 [E-Mail]
G/C Holloman Corporation 333 North Sam Houston Parkway East Suite 600 Houston, Texas 77060 U.S.A.	Shannon Driver Project Manager [Tel.] +1 281 878 2600

PEC® Timing C1

PEC® Activity Completion/Start-Up

Project Probability Completed (100%)

Scope Plains All American awards Willbros Engineering (Engineering) and Holloman Corporation (Pipe G/C) and continues with Construction on a Grassroot Crude Oil Pipeline. DETAILS: As part of the \$350 Million Cactus Pipeline Project, construct 310 miles of 20" diameter transmission pipeline to transport up to 200,000 BBL/d of sweet and sour Permian Basin crude oil from McCamey to Gardendale, La Salle County, TX. REQUIRES: Trenching, 20" Diameter Transmission Pipe, SCADA, Cathodic Protection, Coatings, Custody Transfers, Pig Launching, Metering, Road/Rail Crossings, Control/Block Valves, Utilities and Controls. ENVIRONMENTAL: (A) Leak Detection; (L) Containment, EIS.

Schedule Plains All American with Willbros and Holloman continue Construction through 1Q15 (Mar). Plains with Willbros and Holloman releases remaining Equipment RFQ's and Subcontractor Bid Documents through 3Q14 (Jul). Construction Commenced 2Q14 (Apr). Expected Project Completion 1Q15 (Mar).

Project Milestones

AFE 201403 **Sub Bid Doc** 201407 **Completion** 15-Mar-2015 **Precision** MONTH
Equip RFQ 201407 **Kick-Off** 201404 **Kickoff Slippage** 0 Months **Duration** 12 Months

Engineering

Contracting

Project Key Needs

Civil/Site	Electrical	Environmental	Instrumentation	Mechanical
Instrumentation	Structural	Mechanical	Storage	NDE
Piping/Fittings	Electrical	Environmental	Valves	Pumps
Communications	Insulation/Coatings	Utilities		Transportation

Matter Phase

Liquid

Energy

Buy Electricity

Sell

Plant Standard Contacts

Functional/Actual Title	Contact Name/E-mail	Telephone/On-site	QC Date/LinkedIn ID
Plant Manager	Bill Gilliland	[Phn.] +1 432 687 6900	Feb-2023
Operations Manager		No	bill-gilliland-6ab4a3113
Maintenance Manager	Bill Gilliland	[Phn.] +1 432 687 6900	Feb-2023
Operations Manager		No	bill-gilliland-6ab4a3113
Purchasing Manager	Bill Gilliland	[Phn.] +1 432 687 6900	Feb-2023
Operations Manager		No	bill-gilliland-6ab4a3113
Engineering Manager	William Crochet	[Phn.] +1 713 646 4100	Feb-2023
Senior Director of Engineering, Capital Projects	william.crochet@epicmid.com	No	william-crochet-50a25b146
Environmental Manager	Dean Gore	[Phn.] +1 713 646 4100	Feb-2023
Vice President Environmental & Regulatory Compliance	dgore@paalp.com (!)	No	dean-gore-76972a16
Safety Manager	Jerry Green	[Phn.] +1 432 638 3172	Feb-2023
		No	
Utilities Manager	Bill Gilliland	[Phn.] +1 432 687 6900	Feb-2023
Operations Manager		No	bill-gilliland-6ab4a3113
Human Resource Manager	Kenneth 'Ken' Martin	[Phn.] +1 713 646 4100	Feb-2023
HR Manager		No	ken-martin-0747193

Historical Reports

Project Name	Report Date	TIV	Phase
MCCAMEY CACTUS PIPELINE GRASSROOT CRUDE OIL PIPELINE	25-Apr-2013	300,000,000 USD	Detailed Design (P1 - 09)
MCCAMEY CACTUS PIPELINE GRASSROOT CRUDE OIL PIPELINE	14-Nov-2013	300,000,000 USD	Project Justification (P1 - 16)
MCCAMEY CACTUS PIPELINE GRASSROOT CRUDE OIL PIPELINE	18-Feb-2014	300,000,000 USD	Permitting (P2 - 18)
MCCAMEY CACTUS PIPELINE GRASSROOT CRUDE OIL PIPELINE	29-Apr-2014	300,000,000 USD	Construction - Merit Shop (C1 - 36)
MCCAMEY CACTUS PIPELINE GRASSROOT CRUDE OIL PIPELINE	31-Jul-2014	300,000,000 USD	Construction - Merit Shop (C1 - 36)
MCCAMEY CACTUS PIPELINE GRASSROOT CRUDE OIL PIPELINE	14-Jan-2015	300,000,000 USD	Construction - Merit Shop (C1 - 36)
MCCAMEY CACTUS PIPELINE GRASSROOT CRUDE OIL PIPELINE	25-Mar-2015	300,000,000 USD	Completion/Start-Up (C1 - 41)
MCCAMEY CACTUS PIPELINE GRASSROOT CRUDE OIL PIPELINE	09-Dec-2020	300,000,000 USD	Completion/Start-Up (C1 - 41)



Project Name WINK LONE STAR EXPRESS (LSX2) NATURAL GAS LIQUIDS PIPELINE EXPAI
Umbrella Project Name LONE STAR EXPRESS EXPANSION (LSX2)

[PEC Activity Diagram](#)

Umbrella Project Count 6

Umbrella Project Summary Lone Star is expanding its Lone Star Express Pipeline system by adding a new 352-mile 24" pipeline extending from Lone Stars existing pipeline system near Wink, Tx to its existing 30" line south of Fort Worth, Tx. This new pipeline will provide capacity for transportation commitments Lone Star has secured from the Delaware and Permian Basins. Completion date is slated for 4Q20.

Industry Code 03 Oil & Gas Pipelines

Project Type Grassroot

TIV (USD) 550,000,000

SIC Code 4922 Natural Gas Transmission

Sector Natural Gas Liquids Pipelines



SIC Product 4922*0010 Natural Gas Liquids Pipeline

Status Complete / Done

Last Update 02-Sep-2020

Initial Release 12-Dec-2018

Environmental Air (A) Land (L) Water (W)

Construction Labor Preference Unconfirmed

Operations Labor Preference Non-Union

Project Capacity

Planned 400,000 BBL/d of Natural Gas Liquids (NGL)

Pipeline Installation Details

Installation Type	Pipeline Length	Unit of Measure	Pipeline Diameter	Unit of Measure
Market Extension	352 Miles (mi)		24 Inches (in)	

Plant Owner Energy Transfer Partners LP
Plant Name Wink WT2 NGL Pump Station
Plant ID 3348108
Location East of Wink
City/State Wink, Texas 79789 U.S.A.

Plant Parent Energy Transfer LP
Unit Name
Phone +1 210 403 7300
Zone/County TX*06, Winkler

Project Responsibility Project Company

Project Contact

Project Executive Energy Transfer Operating LP
 8111 Westchester Drive
 Dallas, Texas 75225
 U.S.A.

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Project Manager Energy Transfer Operating LP
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Project Manager Energy Transfer Operating LP
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Jonathan Minton
 Environmental Project Manager
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 U.S.A.

Derek Kieschnick
 Project Estimator
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G/C Troy Construction LLC
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 U.S.A.

Tim Johnson
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 [E-Mail] tjohnson@troyconstruction.com

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 U.S.A.

Ryan Kelly
 Project Manager
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 [E-Mail]

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 Eau Claire, Wisconsin 54701
 U.S.A.

Jake Breunig
 Project Manager
 [Tel.] +1 715 874 4510
 [E-Mail] jbreunig@precisionpipelinellc.com

PEC® Timing C1

PEC® Activity Completion/Start-Up

Project Probability Completed (100%)

Scope Lone Star NGL Pipeline LLC (subsidiary of Energy Transfer LP) awards Pumpco Incorporated (Spread 1), Troy Construction (Spread 2), Hollomon Corporation (Spread 3) and Precision Pipeline (Spread 4) and proceed with Construction on LSX2 NGL Pipeline Expansion. DETAILS: As part of Lone Star Express pipeline Expansion from the Permian Basin, install 352 miles of 24" diameter transmission pipeline to transport 400,000 BBL/d of NGL's from Wink, TX to connect to Lone Star existing 30" pipeline at Morgan Junction in Bosque County, TX. REQUIRES: Trenching, Excavating, 24" Diameter Transmission Pipe, Cathodic Protection, Road/River Crossings, Coatings, Custody Transfers, Metering, Block/Control Valves, Pig Launching, Piping and Controls. ENVIRONMENTAL: (A) Leak Detection; (L) Containment; (W) River Crossings.

Schedule Lone Star in Conjunction with G/C's continues with Construction Activities (Clearing and Grading) and releases remaining Equipment RFQ's and Bid Documents plus review and select Subcontractors 4Q19 (Dec) through 2Q20 (May). Construction Commenced 4Q19 (Dec). Scheduled Project Completion 3Q20 (Sep).

Details Apr-2020 No current impact.

Project Milestones	AFE 201908	Sub Bid Doc 202005	Completion 01-Sep-2020	Precision QUARTER
Long-Lead 201901	Equip RFQ 201912	Kick-Off 201912	Kickoff Slippage 3 Months	Duration 10 Months
Engineering Contracting	Electrical	Environmental	Instrumentation Mechanical	
Project Key Needs	Instrumentation	Electrical	Mechanical	NDE
	Piping/Fittings	Insulation/Coatings	Environmental Utilities	Pumps
	Communications	Material Handling	Control Room	Transportation
Matter Phase	Gas	Liquid		
Energy				
Buy	Electricity			
Sell				
Project Fuel Type	Natural Gas			

Plant Standard Contacts			
Functional/Actual Title	Contact Name/E-mail	Telephone/On-site	QC Date/LinkedIn ID
Plant Manager	Michael 'Mike' McCracken	[Phn.] +1 817 302 9806 / [Alt.] +1 505 217 5034	Aug-2023
Senior Director of Operations	michael.mccracken@energytransfer.com	No	mike-mccracken-485b9741
Maintenance Manager	Michael 'Mike' McCracken	[Phn.] +1 214 981 0700 / [Alt.] +1 505 217 5034	Aug-2023
Senior Director of Operations	michael.mccracken@energytransfer.com	No	mike-mccracken-485b9741
Purchasing Manager	Michael 'Mike' McCracken	[Phn.] +1 817 302 9806 / [Alt.] +1 505 217 5034	Aug-2023
Senior Director of Operations	michael.mccracken@energytransfer.com	No	mike-mccracken-485b9741
Engineering Manager	Mark Vedral	[Phn.] +1 210 489 4300	Aug-2023
	mark.vedral@energytransfer.com	No	
Environmental Manager	Christopher Hansen	[Phn.] +1 214 840 5650 / [Alt.] +1 972 658 8157	Aug-2023
	christopher.hansen@energytransfer.com	No	chris-hansen-a2273166
Safety Manager	Keith Morris	[Phn.] +1 214 981 0700	Aug-2023
Senior Safety Manager	keith.morris@energytransfer.com	No	keith-morris-csp-3a5b9919
Utilities Manager	Michael 'Mike' McCracken	[Phn.] +1 817 302 9806 / [Alt.] +1 505 217 5034	Aug-2023
Senior Director of Operations	michael.mccracken@energytransfer.com	No	mike-mccracken-485b9741
Human Resource Manager	Erica Brandt	[Phn.] +1 210 403 7300	Aug-2023
Human Resource Director	erica.brandt@energytransfer.com	No	erica-brandt-1ba85937

Historical Reports			
Project Name	Report Date	TIV	Phase
WINK NATURAL GAS LIQUIDS PIPELINE EXPANSION	12-Dec-2018	550,000,000 USD	Permitting (P2 - 18)
WINK NATURAL GAS LIQUIDS PIPELINE EXPANSION	28-Aug-2019	550,000,000 USD	Permitting (P2 - 18)
WINK LONE STAR EXPRESS (LSX2) NATURAL GAS LIQUIDS PIPELINE EXPANSION	04-Oct-2019	550,000,000 USD	Planning and Scheduling (E2 - 25)
WINK LONE STAR EXPRESS (LSX2) NATURAL GAS LIQUIDS PIPELINE EXPANSION	20-Dec-2019	550,000,000 USD	Construction - Merit Shop (C1 - 36)
WINK LONE STAR EXPRESS (LSX2) NATURAL GAS LIQUIDS PIPELINE EXPANSION	08-Apr-2020	550,000,000 USD	Construction - Merit Shop (C1 - 36)
WINK LONE STAR EXPRESS (LSX2) NATURAL GAS LIQUIDS PIPELINE EXPANSION	02-Sep-2020	550,000,000 USD	Completion/Start-Up (C1 - 41)



Project Name EPIC MIDSTREAM CRANE TO ROBSTOWN NGL PIPELINE CONVERSION TO I

[PEC Activity Diagram](#)

Industry Code 03 Oil & Gas Pipelines

Project Type Conversion

TIV (USD) 600,000,000

SIC Code 4612 Crude Petroleum Pipelines

Sector Crude Pipelines

SIC Product 4612*0001 Crude Oil Pipelines

Status Complete / Done

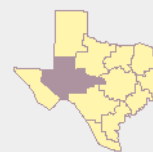
Last Update 28-May-2020

Initial Release 31-Jan-2019

Environmental Air (A) Land (L)

Construction Labor Preference Unconfirmed

Operations Labor Preference Union, Non-Union



Project Capacity **Planned** 400,000 BBL/d of Crude Oil

Pipeline Installation Details

Installation Type	Pipeline Length	Unit of Measure	Pipeline Diameter	Unit of Measure
Conversion	400 Miles (mi)		16 Inches (in)	

Plant Owner EPIC Midstream Holdings, LP

Plant Parent EPIC Midstream Holdings, LP

Plant Name Crane NGL Pump Station

Unit Name

Plant ID 3278544

Location Old Girvin Road

Phone +1 210 920 2255

City/State Crane, Texas 79743 U.S.A.

Zone/County TX*06, Crane

Project Responsibility Project Company

Project Contact

Project Manager EPIC Midstream Holdings, LP
18615 Tuscany Stone, Suite 275
San Antonio, Texas 78258
U.S.A.

Grant Terry
Project Engineer - Pipeline
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Project Director EPIC Midstream Holdings, LP
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San Antonio, Texas 78258
U.S.A.

Justin Gordon
Vice President Engineering & Operations
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[E-Mail] justin.gordon@epicmid.com ; [LinkedIn] justin-gordon-2a213241

Project Executive Southcross Energy Partners LP
18615 Tuscany Stone Suite 300
San Antonio, Texas 78258
U.S.A.

Phillip Mezey
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Bruce Ainsworth
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[E-Mail] bainsworth@mpg-plc.com

G/C Holloman Corporation
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Houston, Texas 75050
U.S.A.

Jared Harris
Project Manager-Ops Mgmt
[Tel.] +1 281 878 2600
[E-Mail] coyharris@hollomancorp.com

PEC® Timing C1

PEC® Activity Completion/Start-Up

Project Probability Completed (100%)

Scope Epic NGL Pipeline (indirect subsidiary of Texstar Midstream) with MPG Pipeline (Pipeline Construction G/C) and Holloman Corporation (G/C) continues Construction on an NGL Pipeline being temporarily converted to carry Crude Oil. DETAILS: As part of the EPIC NGL pipeline, Convert @ 400 miles of 16"-diameter transmission pipe to carry 400,000 BBL/d Crude Oil from Crane NGL Pump Station (Plant ID: 3278544) to Robstown NGL Pump Station (Plant ID: 3278596). REQUIRES: Trenching, Cathodic Protection, Coatings, MCC, Pig Launching/Receiving, Utilities, Metering, Block Valves, Control Valves plus Controls. ENVIRONMENTAL: (A) Leak Detection; (L) Containment.

Schedule Epic NGL Pipeline (indirect subsidiary of Texstar Midstream) with MPG Pipeline (Pipeline Construction) and Holloman Corporation (G/C) continues Construction through 1Q19 (Mar). Construction Commenced 2Q18 (Jun). Scheduled Project Completion 4Q19 (Dec).

Project Milestones	AFE 201709	Sub Bid Doc 201806	Completion 02-Dec-2019	Precision MONTH
Engineering	Equip RFQ 201806	Kick-Off 201806	Kickoff Slippage 0 Months	Duration 19 Months
Contracting	Electrical	Environmental	Instrumentation	
Project Key Needs	Civil/Site	Structural		NDE
	Instrumentation	Electrical		
	Piping/Fittings	Insulation/Coatings	Environmental Utilities	Valves
	Communications			Transportation
Matter Phase	Liquid			
Energy				
Buy				
Sell				

Plant Standard Contacts

Functional/Actual Title	Contact Name/E-mail	Telephone/On-site	QC Date/LinkedIn ID
Plant Manager	Jeremy Vest	[Phn.] +1 210 920 2255	Dec-2022

Maintenance Manager	jeremy.vest@epicmid.com	No	jeremy-vest-105883163
Maintenance Manager	Jeremy Vest	[Phn.] +1 210 920 2255	Dec-2022
	jeremy.vest@epicmid.com	No	jeremy-vest-105883163
Purchasing Manager	Jeremy Vest	[Phn.] +1 210 920 2255	Dec-2022
Maintenance Manager	jeremy.vest@epicmid.com	No	jeremy-vest-105883163
Engineering Manager	Jeremy Vest	[Phn.] +1 210 920 2255	Dec-2022
Maintenance Manager	jeremy.vest@epicmid.com	No	jeremy-vest-105883163
Environmental Manager	Juan Tascon	[Phn.] +1 210 920 2255	Dec-2022
	juan.tascon@epicmid.com	No	juan-ramon-tascon-36886a27
Safety Manager	Juan Tascon	[Phn.] +1 210 920 2255	Dec-2022
Environmental Manager	juan.tascon@epicmid.com	No	juan-ramon-tascon-36886a27
Utilities Manager	Jeremy Vest	[Phn.] +1 210 920 2255	Dec-2022
Maintenance Manager	jeremy.vest@epicmid.com	No	jeremy-vest-105883163
Human Resource Manager	Amy Dufault	[Phn.] +1 210 920 2255	Dec-2022
Administrative Assistant	amy.dufault@epicmid.com	No	amy-dufault

Historical Reports

Project Name	Report Date	TIV	Phase
EPIC MIDSTREAM CRANE TO ROBSTOWN NGL PIPELINE CONVERSION TO CRUDE OIL	31-Jan-2019	600,000,000 USD	Construction - Merit Shop (C1 - 36)
EPIC MIDSTREAM CRANE TO ROBSTOWN NGL PIPELINE CONVERSION TO CRUDE OIL	13-Mar-2019	600,000,000 USD	Construction - Merit Shop (C1 - 36)
EPIC MIDSTREAM CRANE TO ROBSTOWN NGL PIPELINE CONVERSION TO CRUDE OIL	24-Apr-2019	600,000,000 USD	Construction - Merit Shop (C1 - 36)
EPIC MIDSTREAM CRANE TO ROBSTOWN NGL PIPELINE CONVERSION TO CRUDE OIL	28-Jun-2019	600,000,000 USD	Construction - Merit Shop (C1 - 36)
EPIC MIDSTREAM CRANE TO ROBSTOWN NGL PIPELINE CONVERSION TO CRUDE OIL	28-Aug-2019	600,000,000 USD	Construction - Merit Shop (C1 - 36)
EPIC MIDSTREAM CRANE TO ROBSTOWN NGL PIPELINE CONVERSION TO CRUDE OIL	27-Sep-2019	600,000,000 USD	Construction - Merit Shop (C1 - 36)
EPIC MIDSTREAM CRANE TO ROBSTOWN NGL PIPELINE CONVERSION TO CRUDE OIL	15-Oct-2019	600,000,000 USD	Construction - Merit Shop (C1 - 36)
EPIC MIDSTREAM CRANE TO ROBSTOWN NGL PIPELINE CONVERSION TO CRUDE OIL	13-Dec-2019	600,000,000 USD	Construction - Merit Shop (C1 - 36)
EPIC MIDSTREAM CRANE TO ROBSTOWN NGL PIPELINE CONVERSION TO CRUDE OIL	15-Jan-2020	600,000,000 USD	Completion/Start-Up (C1 - 41)
EPIC MIDSTREAM CRANE TO ROBSTOWN NGL PIPELINE CONVERSION TO CRUDE OIL	28-May-2020	600,000,000 USD	Completion/Start-Up (C1 - 41)



Project Name ORLA GRASSROOT GRAY OAK CRUDE OIL PIPELINE
Umbrella Project Name GRAY OAK CRUDE OIL PIPELINE

[PEC Activity Diagram](#)

Umbrella Project Count 14

Umbrella Project Summary 800,000 BBL/d Crude Oil Pipeline from multiple origin points in the Permian to the Gulf Coast via the Eagle Ford.

Industry Code 03 Oil & Gas Pipelines

Project Type Grassroot

TIV (USD) 1,500,000,000

SIC Code 4612 Crude Petroleum Pipelines

Sector Crude Pipelines

SIC Product 4612*0001 Crude Oil Pipelines

Status Complete / Done

Last Update 14-May-2020

Initial Release 21-Dec-2017

Environmental Air (A) Land (L)

Construction Labor Preference Unconfirmed

Operations Labor Preference Non-Union



Project Capacity **Planned** 900,000 BBL/d of Crude Oil

Pipeline Installation Details

Installation Type	Pipeline Length	Unit of Measure	Pipeline Diameter	Unit of Measure
Greenfield	850	Miles (mi)	42	Inches (in)

Plant Owner Phillips 66

Plant Parent Phillips 66

Plant Name Orla Crude Oil Pump Station

Unit Name

Plant ID 3292948

Location 10.38 Miles Northwest of Orla

Phone +1 281 293 6600

City/State Mentone, Texas 79770 U.S.A.

Zone/County TX*06, Loving

Project Responsibility Project Company

Project Contact

Project Executive Phillips 66
 PO Box 4428
 Houston, Texas 77210
 U.S.A.

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 [E-Mail] bainsworth@mpg-plc.com

PEC® Timing C1

PEC® Activity Completion/Start-Up

Project Probability Completed (100%)

Scope Gray Oak Pipeline LLC (subsidiary of Phillips 66 - 75% Owner) and Marathon Petroleum Company (formerly Andeavor - 25% Owner) awards Holloman Corporation (Spread 1), Pumpco (Spread 2) and MPG Contractors (Spread 3) and continues with Construction for a Grassroot Crude Oil Pipeline. DETAILS: As part of the 850 Mile Gray Oak Pipeline Project, Dig trenches and lay approximately 850 miles of 36" and 42" diameter transmission pipeline to transport up to 900,000 BBL/d (expandable to 1MM BBL/d) of crude oil from origination points in the Permian Basin near Orla, Wink, and Crane, TX to the Eagle Ford Shale area near Corpus Christi, Sweeny, and Freeport, TX. REQUIRES: Trenching, Excavation, 36" and 42" Diameter Transmission Pipe, SCADA, Coatings, Custody Transfers, Pig Launching & Receiving, Block/Control Valves, Piping, MCC, HDD, Road/River Crossings, Metering, Utilities and Controls. ENVIRONMENTAL: (A) Leak Detection; (L) Containment.

Schedule Gray Oak Pipeline in Conjunction with Holloman, Pumpco and MPG continues with Construction Activities and continues to release remaining Equipment RFQ's and Sub Contractor Bid Documents through 3Q19 (Aug). Construction Commenced 4Q18 (Oct). Expected Project Completion 2Q20 (May).

Project Milestones	AFE 201808		Sub Bid Doc 201809		Completion 27-Apr-2020	Precision MONTH
	Long-Lead 201807	Equip RFQ 201809	Kick-Off 201810	Kickoff Slippage 3 Months	Duration 19 Months	
Engineering Contracting	Electrical	Environmental		Instrumentation Mechanical	Structural	
Project Key Needs	Civil/Site					
	Instrumentation	Electrical	Mechanical		NDE	
	Piping/Fittings	Insulation/Coatings	Environmental Utilities	Valves		

Matter Phase

Liquid

Energy

Buy Electricity

Sell

Plant Standard Contacts

Functional/Actual Title	Contact Name/E-mail	Telephone/On-site	QC Date/LinkedIn ID
Plant Manager	Scott Gilmore	[Phn.] +1 806 318 9268	Apr-2023
Operations Superintendent	scott.gilmore@p66.com	No	
Maintenance Manager	Scott Gilmore	[Phn.] +1 806 318 9268	Apr-2023
Operations Superintendent	scott.gilmore@p66.com	No	
Purchasing Manager	Scott Gilmore	[Phn.] +1 806 318 9268	Apr-2023
Operations Superintendent	scott.gilmore@p66.com	No	
Engineering Manager	Manny Cortez	[Phn.] +1 832 765 1711	Apr-2023
Manager Pipelines	manny.m.cortez@p66.com	No	manny-cortez-304b9218
Environmental Manager	David 'Clint' Gill	[Phn.] +1 281 293 6600	Apr-2023
EHS Manager		No	Duplicate ID
Safety Manager	David 'Clint' Gill	[Phn.] +1 281 293 6600	Apr-2023
EHS Manager		No	Duplicate ID
Utilities Manager	Scott Gilmore	[Phn.] +1 806 318 9268	Apr-2023
Operations Superintendent	scott.gilmore@p66.com	No	
Human Resource Manager	Sonya Reed	[Phn.] +1 281 293 6600	Apr-2023
SVP Human Resources		No	sonya-reed-b051144

Historical Reports

Project Name	Report Date	TIV	Phase
ORLA GRASSROOT GRAY OAK CRUDE OIL PIPELINE	21-Dec-2017	700,000,000 USD	Owner Review of Issue (P2 - 19)
ORLA GRASSROOT GRAY OAK CRUDE OIL PIPELINE	27-Apr-2018	700,000,000 USD	Owner Review of Issue (P2 - 19)
ORLA GRASSROOT GRAY OAK CRUDE OIL PIPELINE	11-Jul-2018	700,000,000 USD	Purchasing (E2 - 21)
ORLA GRASSROOT GRAY OAK CRUDE OIL PIPELINE	31-Jul-2018	700,000,000 USD	Purchasing (E2 - 21)
ORLA GRASSROOT GRAY OAK CRUDE OIL PIPELINE	15-Nov-2018	700,000,000 USD	Purchasing (E2 - 21)
ORLA GRASSROOT GRAY OAK CRUDE OIL PIPELINE	06-Dec-2018	700,000,000 USD	Planning and Scheduling (E2 - 25)
ORLA GRASSROOT GRAY OAK CRUDE OIL PIPELINE	14-Dec-2018	700,000,000 USD	Construction - Merit Shop (C1 - 36)
ORLA GRASSROOT GRAY OAK CRUDE OIL PIPELINE	28-Feb-2019	1,500,000,000 USD	Construction - Merit Shop (C1 - 36)
ORLA GRASSROOT GRAY OAK CRUDE OIL PIPELINE	19-Sep-2019	1,500,000,000 USD	Construction - Merit Shop (C1 - 36)
ORLA GRASSROOT GRAY OAK CRUDE OIL PIPELINE	15-Nov-2019	1,500,000,000 USD	Construction - Merit Shop (C1 - 36)
ORLA GRASSROOT GRAY OAK CRUDE OIL PIPELINE	13-Dec-2019	1,500,000,000 USD	Construction - Merit Shop (C1 - 36)
ORLA GRASSROOT GRAY OAK CRUDE OIL PIPELINE	27-Feb-2020	1,500,000,000 USD	Construction - Merit Shop (C1 - 36)
ORLA GRASSROOT GRAY OAK CRUDE OIL PIPELINE	16-Apr-2020	1,500,000,000 USD	Construction - Merit Shop (C1 - 36)
ORLA GRASSROOT GRAY OAK CRUDE OIL PIPELINE	14-May-2020	1,500,000,000 USD	Completion/Start-Up (C1 - 41)



Project Name CRANE GRASSROOT EPIC CRUDE OIL PIPELINE (SPREAD 2)
Umbrella Project Name EPIC CRUDE OIL PIPELINE

[PEC Activity Diagram](#)

Umbrella Project Count 21

Umbrella Project Summary

Industry Code 03 Oil & Gas Pipelines **Project Type** Grassroot
TIV (USD) 375,000,000
SIC Code 4612 Crude Petroleum Pipelines **Sector** Crude Pipelines
SIC Product 4612*0001 Crude Oil Pipelines
Status Complete / Done **Last Update** 23-Apr-2020 **Initial Release** 15-Mar-2018
Environmental Air (A) Land (L) **Construction Labor Preference** Union, Non-Union
Operations Labor Preference Union, Non-Union



Project Capacity **Planned** 590,000 BBL/d of Crude Oil

Pipeline Installation Details

Installation Type	Pipeline Length	Unit of Measure	Pipeline Diameter	Unit of Measure
Greenfield	215 Miles (mi)		16 Inches (in)	

Plant Owner EPIC Midstream Holdings, LP **Plant Parent** EPIC Midstream Holdings, LP
Plant Name Crane Meter Station **Unit Name**
Plant ID 3308872
Location West of Crane **Phone** +1 210 569 6696
City/State Crane, Texas 79731 U.S.A. **Zone/County** TX*06, Crane

Project Responsibility Project Company

Project Contact

Project Director EPIC Midstream Holdings, LP
 18615 Tuscany Stone, Suite 275
 San Antonio, Texas 78258
 U.S.A.
Project Contact Grant Terry
 Project Engineer - Pipeline
 [Tel.] +1 210 569 6696
 [E-Mail] ; [LinkedIn] grant-terry-35974311a

Project Executive EPIC Midstream Holdings, LP
 18615 Tuscany Stone, Suite 275
 San Antonio, Texas 78258
 U.S.A.
Project Contact Justin Gordon
 Vice President Engineering & Operations
 [Tel.] +1 210 569 6696
 [E-Mail] justin.gordon@texstarlogistics.com ;
 [LinkedIn] justin-gordon-2a213241

Project Executive EPIC Midstream Holdings, LP
 18615 Tuscany Stone, Suite 275
 San Antonio, Texas 78258
 U.S.A.
Project Contact Phillip Mezey
 Chief Executive Officer
 [Tel.] +1 210 569 6696
 [E-Mail] phil.mezey@epicmid.com

G/C Holloman Corporation
 333 North Sam Houston Parkway East Suite 600
 Houston, Texas 77060
 U.S.A.
Project Contact Mick Maidens
 Project Manager
 [Tel.] +1 281 878 2600
 [E-Mail]

PEC® Timing C1

PEC® Activity Completion/Start-Up

Project Probability Completed (100%)

Scope EPIC Midstream awards Holloman Corporation (G/C) and proceeds with Construction for a Grassroot Crude Oil Pipeline. DETAILS: Construct 215 miles of 30"-diameter crude oil transmission pipe (Spread 2) to transport 600,000 BBL/d (expandable to 900,000 BBL/d) Permian Basin and Eagle Ford Shale crude oil from origin points in Orla, Saragosa, and Crane, TX to Midland, TX in the Permian Basin. REQUIRES: Excavation, Trenching, Transmission Pipe, SCADA, Block & Control Valves, Cathodic Protection, Coatings, Pig Launching, Piping, Metering, Utilities, and Controls. ENVIRONMENTAL: (A) Leak Detection; (L) Containment.

Schedule EPIC Midstream in Conjunction with Holloman continues with Construction Activities (Clearing and Grading) and releases remaining Equipment RFQ's and Subcontractor Bid Packages 4Q18 (Oct) through 2Q19 (Apr). Construction Commenced 4Q18 (Oct). Scheduled Project Completion 1Q20 (Feb).

Project Milestones	AFE 201809	Sub Bid Doc 201904	Completion 28-Feb-2020	Precision QUARTER
Long-Lead 201711	Equip RFQ 201810	Kick-Off 201810	Kickoff Slippage -2 Months	Duration 17 Months

Engineering Contracting	Electrical	Environmental	Mechanical	Structural
Project Key Needs	Instrumentation	Electrical	Mechanical	
	Piping/Fittings	Insulation/Coatings	Environmental Utilities	Valves
	Communications			Pumps
				Transportation

Material Handling

Matter Phase Liquid

Energy

Buy Electricity

Sell

Historical Reports

Project Name	Report Date	TIV	Phase
CRANE GRASSROOT EPIC CRUDE OIL PIPELINE (SPREAD 2)	15-Mar-2018	375,000,000 USD	Construction - Merit Shop (C1 - 36)

CRANE GRASSROOT EPIC CRUDE OIL PIPELINE (SPREAD 2)	27-Jun-2018	375,000,000 USD	Permitting (P2 - 18)
CRANE GRASSROOT EPIC CRUDE OIL PIPELINE (SPREAD 2)	26-Oct-2018	375,000,000 USD	Construction - Merit Shop (C1 - 36)
CRANE GRASSROOT EPIC CRUDE OIL PIPELINE (SPREAD 2)	10-Dec-2018	375,000,000 USD	Construction - Merit Shop (C1 - 36)
CRANE GRASSROOT EPIC CRUDE OIL PIPELINE (SPREAD 2)	12-Dec-2019	375,000,000 USD	Construction - Merit Shop (C1 - 36)
CRANE GRASSROOT EPIC CRUDE OIL PIPELINE (SPREAD 2)	15-Jan-2020	375,000,000 USD	Construction - Merit Shop (C1 - 36)
CRANE GRASSROOT EPIC CRUDE OIL PIPELINE (SPREAD 2)	13-Feb-2020	375,000,000 USD	Construction - Merit Shop (C1 - 36)
CRANE GRASSROOT EPIC CRUDE OIL PIPELINE (SPREAD 2)	04-Mar-2020	375,000,000 USD	Final Commissioning (C1 - 40)
CRANE GRASSROOT EPIC CRUDE OIL PIPELINE (SPREAD 2)	07-Apr-2020	375,000,000 USD	Final Commissioning (C1 - 40)
CRANE GRASSROOT EPIC CRUDE OIL PIPELINE (SPREAD 2)	13-Apr-2020	375,000,000 USD	Final Commissioning (C1 - 40)
CRANE GRASSROOT EPIC CRUDE OIL PIPELINE (SPREAD 2)	23-Apr-2020	375,000,000 USD	Completion/Start-Up (C1 - 41)

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Project Name MIDKIFF GRASSROOT SAND HILLS NATURAL GAS LIQUIDS (NGL) PIPELINE
Umbrella Project Name SAND HILLS EXPANSION 2018

[PEC Activity Diagram](#)

Umbrella Project Count 6

Umbrella Project Summary

Industry Code 03 Oil & Gas Pipelines **Project Type** Grassroot
TIV (USD) 60,000,000
SIC Code 4922 Natural Gas Transmission **Sector** Natural Gas Liquids Pipelines
SIC Product 4922*0010 Natural Gas Liquids Pipeline
Status Complete / Done **Last Update** 15-May-2019 **Initial Release** 15-Nov-2017
Environmental Air (A) Land (L) Water (W) **Construction Labor Preference** Union, Non-Union
Operations Labor Preference Union, Non-Union
Project Capacity **Planned** 85,000 BBL/d of Natural Gas Liquids (NGL)



Pipeline Installation Details

Installation Type	Pipeline Length	Unit of Measure	Pipeline Diameter	Unit of Measure
Greenfield	25	Miles (mi)	20	Inches (in)

Plant Owner DCP Midstream LP **Plant Parent** Enbridge Incorporated
Plant Name Midkiff NGL Metering Station **Unit Name**
Plant ID 3280319
Location 0.51 Miles North of FM 1555 **Phone** +1 713 735 3600
City/State Midkiff, Texas 79755 U.S.A. **Zone/County** TX*06, Upton

Project Responsibility Project Company

Project Contact

Project Manager DCP Midstream LP 370 17th Street Suite 2500 Denver, Colorado 80202 U.S.A.	Leslie Kelton Project Engineer [Tel.] +1 303 595 3331 [E-Mail] ; [LinkedIn] leslie-k-897797189
Project Manager DCP Midstream LP 370 17th Street Suite 2500 Denver, Colorado 80202 U.S.A.	David Byrnes Engineering Manager [Tel.] +1 303 595 3331 [E-Mail] dbyrnes@dcpmidstream.com ; [LinkedIn] david-byrnes-p-e-75ba6a1
Project Manager DCP Midstream LP 370 17th Street Suite 2500 Denver, Colorado 80202 U.S.A.	Steve Nelson Engineering Manager [Tel.] +1 303 595 3331 [E-Mail]
Inspection/Validation/Startup DCP Midstream LP 370 17th Street Denver, Colorado 80802 U.S.A.	Tony Beck Pipeline Area Manager [Tel.] +1 303 595 3331 [E-Mail] ; [LinkedIn] tony-beck-01064a2a
G/C Holloman Corporation 333 North Sam Houston Parkway East Suite 600 Houston, Texas 77060 U.S.A.	Mick Maidens Project Manager [Tel.] +1 281 878 2600 [E-Mail]

PEC® Timing C1

PEC® Activity Completion/Start-Up

Project Probability Completed (100%)

Scope DCP Midstream with Holloman Corporation (G/C) continues with Construction for Grassroot Natural Gas Liquids Pipeline Loops. DETAILS: As part of the Sand Hills Pipeline Expansion 2018, dig trenches and lay (6) 20"-diameter pipeline loops between 10 and 25 miles long to facilitate an expansion of the Sand Hills pipeline up to 450,000 BBL/d of natural gas liquids. REQUIRES: Trenching, Site Preparation, Transmission Pipe, Cathodic Protection, Pig Launching/Receiving, Coatings, Custody Transfers, Metering, Control/Block Valves plus Controls. ENVIRONMENTAL: (A) Leak Detection; (L) Containment; (W) River Crossings.

Schedule DCP Midstream with Holloman continues Construction and releases remaining Equipment RFQ's and Subcontractor Bid Documents 4Q18 (Nov). Scheduled Construction Kick-Off 4Q18 (Nov). Scheduled Completion Date 1Q19 (Feb).

Project Milestones	Long-Lead	Equip RFQ	Sub Bid Doc	Completion	Precision
	201711	201812	201901	01-May-2019	MONTH
Engineering				Kickoff Slippage 10 Months	Duration 6 Months
Contracting	Electrical	Environmental	Instrumentation		
Project Key Needs Civil/Site					
Instrumentation	Electrical	Mechanical	NDE		
Piping/Fittings	Insulation/Coatings	Environmental	Utilities	Valves	
Communications				Transportation	
Matter Phase	Liquid				
Energy					
Buy					
Sell					

Project Name	Report Date	TIV	Phase
MIDKIFF GRASSROOT SAND HILLS NATURAL GAS LIQUIDS (NGL) PIPELINE LOOPS	15-Nov-2017	60,000,000 USD	Purchasing (E2 - 21)
MIDKIFF GRASSROOT SAND HILLS NATURAL GAS LIQUIDS (NGL) PIPELINE LOOPS	10-Apr-2018	60,000,000 USD	Preliminary Engineering (E2 - 22)
MIDKIFF GRASSROOT SAND HILLS NATURAL GAS LIQUIDS (NGL) PIPELINE LOOPS	11-Jul-2018	60,000,000 USD	Planning and Scheduling (E2 - 25)
MIDKIFF GRASSROOT SAND HILLS NATURAL GAS LIQUIDS (NGL) PIPELINE LOOPS	04-Oct-2018	60,000,000 USD	Planning and Scheduling (E2 - 25)
MIDKIFF GRASSROOT SAND HILLS NATURAL GAS LIQUIDS (NGL) PIPELINE LOOPS	07-Feb-2019	60,000,000 USD	Construction - Merit Shop (C1 - 36)
MIDKIFF GRASSROOT SAND HILLS NATURAL GAS LIQUIDS (NGL) PIPELINE LOOPS	15-May-2019	60,000,000 USD	Completion/Start-Up (C1 - 41)

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Project Name MIDLAND GRASSROOT MIDLAND - COLORADO CITY SUNRISE CRUDE OIL P
Umbrella Project Name SUNRISE PERMIAN - CUSHING CRUDE OIL PIPELINE

[PEC Activity Diagram](#)

Umbrella Project Count 4

Umbrella Project Summary

Industry Code 03 Oil & Gas Pipelines **Project Type** Grassroot
TIV (USD) 80,000,000
SIC Code 4612 Crude Petroleum Pipelines **Sector** Crude Pipelines
SIC Product 4612*0001 Crude Oil Pipelines
Status Complete / Done **Last Update** 11-Dec-2018 **Initial Release** 10-May-2017
Environmental Air (A) Land (L) **Construction Labor Preference** Unconfirmed
Operations Labor Preference Union, Non-Union



Project Capacity **Planned** 350,000 BBL/d of Crude Oil

Pipeline Installation Details

Installation Type	Pipeline Length	Unit of Measure	Pipeline Diameter	Unit of Measure
Greenfield	80	Miles (mi)	24	Inches (in)

Plant Owner Plains All American Pipeline LP **Plant Parent** Plains All American Pipeline LP
Plant Name Midland Crude Oil Pump Station **Unit Name**
Plant ID 3119866
Location 1301 S County Road 1150 **Phone** +1 432 687 6900
City/State Midland, Texas 79706 U.S.A. **Zone/County** TX*06, Midland

Project Responsibility Project Company

Project Contact

Project Manager	Plains All American Pipeline LP 333 Clay Street Suite 1600 Houston, Texas 77002 U.S.A.	Nimish Modha Project Manager [Tel.] +1 713 646 4100 [E-Mail]
Project Director	Plains All American Pipeline LP 333 Clay Street Suite 1600 Houston, Texas 77002 U.S.A.	Bill Keener Director Pipeline Business Development [Tel.] +1 713 646 4100 [E-Mail] wkeener@paalp.com (!)
Contracts Administrator	Plains All American Pipeline LP 333 Clay Street Suite 1600 Houston, Texas 77002 U.S.A.	Christopher Etter Contracts Manager [Tel.] +1 713 646 4100 [E-Mail] cnetter@paalp.com (!)
Procurement - Purchasing	Plains All American Pipeline LP 333 Clay Street Suite 1600 Houston, Texas 77002 U.S.A.	Kevin Howard Purchasing Manager [Tel.] +1 713 646 4100 [LinkedIn] kevin-howard-c-p-m-b801b133
G/C	Holloman Corporation 333 North Sam Houston Parkway East Suite 600 Houston, Texas 77060 U.S.A.	Shannon Driver Project Manager [Tel.] +1 281 878 2600 [E-Mail]

PEC® Timing C1

PEC® Activity Completion/Start-Up

Project Probability Completed (100%)

Scope Plains All American awards Holloman (Pipeline Construction) and continues Construction for a Grassroot Permian - Cushing Crude Oil Pipeline. DETAILS: Dig trenches and lay approx. 440 miles of 24" crude oil transmission pipe in (3) loops (Midland to Colorado City - 80 miles., Colorado City to Wichita Falls - 180 miles, and Wichita Falls to Cushing - 180 miles) along the existing Midland-to-Cushing Basin Pipeline (Pipeline ID 3505521) to carry 350,000 BBL/d of Permian Basin crude oil from Midland and Colorado City, TX to Plains' Cushing Terminal (Plant ID: 1009085). REQUIRES: Trenching, 24"-Transmission Pipe, Coatings, Custody Transfers, Pig Launching & Receiving, Block/Control Valves, Piping, MCC, Metering Utilities and Controls. ENVIRONMENTAL: (A) Leak Detection; (L) Containment.

Schedule Plains All American with Holloman continues Construction through 4Q19 (Dec). Scheduled Construction Commenced 2Q18 (Apr). Expected Project Completion 4Q18 (Dec).

Project Milestones	AFE 201801	Sub Bid Doc 201802	Completion 12-Nov-2018	Precision QUARTER
Long-Lead 201712	Equip RFQ 201802	Kick-Off 201804	Kickoff Slippage 0 Months	Duration 8 Months
Engineering Contracting	Environmental	Instrumentation		
Project Key Needs	Civil/Site	Instrumentation	NDE	
	Electrical	Mechanical	Pumps	
	Piping/Fittings	Insulation/Coatings	Valves	
	Communications	Environmental Utilities	Transportation	
Matter Phase	Liquid			
Energy				
Buy	Electricity			
Sell				

Plant Standard Contacts

Functional/Actual Title	Contact Name/E-mail	Telephone/On-site	QC Date/LinkedIn ID
-------------------------	---------------------	-------------------	---------------------

Plant Manager	Danny Kea	[Phn.] +1 432 558 3601 / [Alt.] +1 432 215 9001	Dec-2022
		No	
Maintenance Manager	Ross Hataway	[Phn.] +1 432 687 6900 x78931 / [Alt.] +1 432 940 5009	Dec-2022
Operations Supervisor	rhataway@paalp.com (!)	No	
Purchasing Manager	James 'Jimmy' Ferrel	[Phn.] +1 713 646 4100	Dec-2022
Vice President Supply Chain Management	jiferrell@paalp.com	(No	james-jimmy-ferrell-cpsm-cpim-53a88a2
Engineering Manager	Dwayne Koehn	[Phn.] +1 432 687 6900 x34293	Dec-2022
Vice President Operations - North Region		No	dwayne-koehn-9bab14105
Environmental Manager	Wayne Roberts	[Phn.] +1 432 687 6900 x27926	Dec-2022
Director Environmental and Regulatory Compliance		No	wayne-roberts-51303732
Safety Manager	Paul Paget	[Phn.] +1 432 687 6900 x78906	Dec-2022
Senior Division Safety Manager		No	
Utilities Manager	Ross Hataway	[Phn.] +1 432 687 6900 x78931 / [Alt.] +1 432 940 5009	Dec-2022
Operations Supervisor	rhataway@paalp.com (!)	No	
Human Resource Manager	Linda Wallace	[Phn.] +1 432 687 6900 x34541	Dec-2022
		No	

Historical Reports

Project Name	Report Date	TIV	Phase
MIDLAND GRASSROOT PERMIAN - CUSHING CRUDE OIL PIPELINE	10-May-2017	400,000,000 USD	Project Scope (P1 - 03)
MIDLAND GRASSROOT PERMIAN - CUSHING SUNRISE CRUDE OIL PIPELINE	25-Jul-2017	400,000,000 USD	Project Scope (P1 - 03)
MIDLAND GRASSROOT PERMIAN - CUSHING SUNRISE CRUDE OIL PIPELINE LOOPS	15-Aug-2017	400,000,000 USD	Permitting (P2 - 18)
MIDLAND GRASSROOT MIDLAND - COLORADO CITY SUNRISE CRUDE OIL PIPELINE LOOP	15-Sep-2017	80,000,000 USD	Permitting (P2 - 18)
MIDLAND GRASSROOT MIDLAND - COLORADO CITY SUNRISE CRUDE OIL PIPELINE LOOP	20-Nov-2017	80,000,000 USD	Permitting (P2 - 18)
MIDLAND GRASSROOT MIDLAND - COLORADO CITY SUNRISE CRUDE OIL PIPELINE LOOP	21-Dec-2017	80,000,000 USD	Permitting (P2 - 18)
MIDLAND GRASSROOT MIDLAND - COLORADO CITY SUNRISE CRUDE OIL PIPELINE LOOP	26-Feb-2018	80,000,000 USD	Planning and Scheduling (E2 - 25)
MIDLAND GRASSROOT MIDLAND - COLORADO CITY SUNRISE CRUDE OIL PIPELINE LOOP	24-Apr-2018	80,000,000 USD	Construction - Merit Shop (C1 - 3)
MIDLAND GRASSROOT MIDLAND - COLORADO CITY SUNRISE CRUDE OIL PIPELINE LOOP	06-Sep-2018	80,000,000 USD	Construction - Merit Shop (C1 - 3)
MIDLAND GRASSROOT MIDLAND - COLORADO CITY SUNRISE CRUDE OIL PIPELINE LOOP	21-Sep-2018	80,000,000 USD	Construction - Merit Shop (C1 - 3)
MIDLAND GRASSROOT MIDLAND - COLORADO CITY SUNRISE CRUDE OIL PIPELINE LOOP	15-Oct-2018	80,000,000 USD	Construction - Merit Shop (C1 - 3)
MIDLAND GRASSROOT MIDLAND - COLORADO CITY SUNRISE CRUDE OIL PIPELINE LOOP	11-Dec-2018	80,000,000 USD	Completion/Start-Up (C1 - 41)



Project Name ORLA GRASSROOT EPIC NGL PIPELINE PHASE I TX PORTION
Umbrella Project Name EPIC Y-GRADE NGL PIPELINE

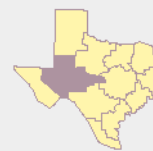
[PEC Activity Diagram](#)

Umbrella Project Count 19

Umbrella Project Summary The Y-Grade Pipeline project will connect 170,000 barrels per day of fractionation capacity at the terminus of the pipeline in Robstown, Texas.

Industry Code 03 Oil & Gas Pipelines
TIV (USD) 30,000,000
SIC Code 4922 Natural Gas Transmission

Project Type Grassroot
Sector Natural Gas Liquids Pipelines



SIC Product 4922*0010 Natural Gas Liquids Pipeline

Status Complete / Done

Last Update 10-Dec-2018

Initial Release 12-Oct-2017

Environmental Air (A) Land (L)

Construction Labor Preference Unconfirmed

Operations Labor Preference Non-Union

Pipeline Installation Details

Installation Type	Pipeline Length	Unit of Measure	Pipeline Diameter	Unit of Measure
Greenfield	27	Miles (mi)	12	Inches (in)

Plant Owner DCP Midstream LP
Plant Name Ramsey Junction
Plant ID 3240172
Location 231 County Road 452
City/State Orla, Texas 79770 U.S.A.

Plant Parent Enbridge Incorporated
Unit Name
Phone +1 432 248 3702
Zone/Country TX*06, Reeves

Project Responsibility Project Company

Project Contact

Project Manager EPIC Midstream Holdings, LP
 18615 Tuscany Stone, Suite 275
 San Antonio, Texas 78258
 U.S.A.

Grant Terry
 Project Engineer - Pipeline
 [Tel.] +1 210 569 6696
 [E-Mail] ; [LinkedIn] grant-terry-35974311a

Project Director EPIC Midstream Holdings, LP
 18615 Tuscany Stone, Suite 275
 San Antonio, Texas 78258
 U.S.A.

Justin Gordon
 Vice President Engineering & Operations
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Project Executive EPIC Midstream Holdings, LP
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 U.S.A.

Phillip Mezey
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G/C Holloman Corporation
 333 North Sam Houston Pkwy
 Houston, Texas 75050
 U.S.A.

Jared Harris
 Project Manager-Ops Mgmt
 [Tel.] +1 281 878 2600
 [E-Mail] coyharris@hollomancorp.com

PEC® Timing C1

PEC® Activity Completion/Start-Up

Project Probability Completed (100%)

Scope Epic NGL Pipeline (indirect subsidiary of Texstar Midstream) with Holloman Corporation (Pipeline Construction) continues Construction for a Grassroot NGL Pipeline. DETAILS: As part of the EPIC NGL pipeline, construct 650 miles of 12"- and 16"-diameter transmission pipe (27 miles of 12" in TX as Phase I between DLK's Black River Gas Plant (Plant ID 3218569) to Delaware Basin Midstream's Ramsay Plant (Plant ID 3046063) near Orla, TX) to transport 350,000 BBL/d of Permian Basin and Eagle Ford natural gas liquids from DLK's Black River Processing Plant near Malaga, NM to Corpus Christi, TX. REQUIRES: Trenching, Transmission Pipe, Cathodic Protection, Coatings, MCC, Pig Launching/Receiving, Utilities, Metering, Block Valves, Control Valves plus Controls. ENVIRONMENTAL: (A) Leak Detection; (L) Containment.

Schedule Epic NGL with Holloman continues Construction through 2Q18 (May). Construction Commenced 4Q17 (Oct). Scheduled Completion 2Q18 (Apr).

Project Milestones	AFE 201709	Sub Bid Doc 201709	Completion 30-Apr-2018	Precision MONTH
	Equip RFQ 201709	Kick-Off 201710	Kickoff Slippage 0 Months	Duration 7 Months

Engineering
 Contracting

Project Key Needs Civil/Site

Instrumentation	Electrical	Mechanical	NDE
Piping/Fittings	Insulation/Coatings	Environmental Utilities	Valves
Communications			Transportation

Matter Phase Liquid

Energy

Buy Electricity

Sell

Historical Reports

Project Name	Report Date	TIV	Phase
PECOS GRASSROOT EPIC NGL PIPELINE PHASE I	12-Oct-2017	30,000,000 USD	Construction - Merit Shop (C1 - 36)

PECOS GRASSROOT EPIC NGL PIPELINE PHASE I	12-Apr-2018	30,000,000 USD	Construction - Merit Shop (C1 - 36)
PECOS GRASSROOT EPIC NGL PIPELINE PHASE I	31-May-2018	30,000,000 USD	Construction - Merit Shop (C1 - 36)
ORLA GRASSROOT EPIC NGL PIPELINE PHASE I TX PORTION	25-Jun-2018	30,000,000 USD	Completion/Start-Up (C1 - 41)
ORLA GRASSROOT EPIC NGL PIPELINE PHASE I TX PORTION	10-Dec-2018	30,000,000 USD	Completion/Start-Up (C1 - 41)

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Project Name CAMERON #2 NATURAL GAS GATHERING COMPRESSOR STATION
Umbrella Project Name WILLIAMS APPALACHIAN GATHERING COMPRESSOR STATIONS

[PEC Activity Diagram](#)

Umbrella Project Count 4

Umbrella Project Summary

Industry Code 03 Oil & Gas Pipelines **Project Type** Grassroot
TIV (USD) 10,000,000
SIC Code 4922 Natural Gas Transmission **Sector** Natural Gas Pipelines
SIC Product 4922*0006 Natural Gas Compressor Stations
Status Complete / Done **Last Update** 27-Sep-2018 **Initial Release** 15-Nov-2017
Environmental Air (A) Land (L) **Construction Labor Preference** Unconfirmed
Operations Labor Preference Union



Plant Owner Appalachia Midstream Services LLC **Plant Parent** Williams Companies Incorporated
Plant Name Blake Ridge Natural Gas Gathering Compressor Station **Unit Name** IC 01
Plant ID 3286171
Location 546 Blake Ridge County Road 1/14 **Phone** +1 304 517 1416
City/State New Martinsville, West Virginia 26155 U.S.A. **Zone/County** WV*03, Wetzel

Project Responsibility Project Company

Project Manager Williams Ohio Valley Midstream LLC
 RD4 Box 397
 Cameron, West Virginia 26033
 U.S.A.

Project Contact

Clem Collins
 Project Manager
 [Tel.] +1 570 222 2340
 [E-Mail] clem.collins@williams.com ; [LinkedIn] clem-collins-1129737

Project Manager Williams Ohio Valley Midstream LLC
 RD4 Box 397
 Cameron, West Virginia 26033
 U.S.A.

Nathan Salsi
 Project Manager
 [Tel.] +1 304 845 5050 x5034

G/C Holloman Corporation
 1000 Cliff Mine Road, Suite 400
 Pittsburgh, Pennsylvania 15317
 U.S.A.

Waylon Bowery
 Project Manager
 [Tel.] +1 724 514 5900
 [E-Mail]

PEC® Timing C1

PEC® Activity Completion/Start-Up

Project Probability Completed (100%)

Scope Williams Partners with Holloman Corporation (G/C) proceeds with Construction on a Grassroot Natural Gas Compressor Station for a Gathering System. DETAILS: Construct buildings and install Caterpillar/Ariel Engine-Driven compressor packages, to maintain field pressure of natural gas sourced from Marcellus and Upper Devonian. REQUIRES: Buildings, Compressors (Gas & Air), Headers, Manifolds, Flanges, NG/H2O/Air Piping, Pipe Racks, Pipe Yard, Control Valves, Metering, Separator, Emergency Generator, MCC, Fire Protection, Transformers, Switchgear, Breakers, Electrical Distribution, Coatings plus Controls. ENVIRONMENTAL: (A) Flare, CEMS, Leak Detection; (L) Containment.

Schedule Williams Partners with Holloman Corporation proceeds with Construction through 3Q18 (Aug). Williams Partners releases remaining Equipment RFQ's and Holloman Corporation releases remaining Bid Document plus reviews and Selects Subcontractors as needed 1Q18 (Mar)-2Q18. Construction Commenced 1Q18 (Mar). Expected Project Completion 3Q18 (Sep).

Project Milestones **AFE 201801** **Sub Bid Doc 201803** **Completion 21-Sep-2018** **Precision QUARTER**
Equip RFQ 201803 **Kick-Off 201802** **Kickoff Slippage -1 Months** **Duration 8 Months**

Engineering
Contracting Electrical Environmental Mechanical
Project Key Needs Civil/Site Structural Control Room
 Instrumentation Electrical Mechanical HVAC
 Piping/Fittings Insulation/Coatings Environmental Utilities Valves Pumps
 Communications Transportation

Matter Phase Gas
Energy
Buy
Sell

Project Fuel Type Natural Gas

Plant Standard Contacts

Functional/Actual Title	Contact Name/E-mail	Telephone/On-site	QC Date/LinkedIn ID
Plant Manager	Josh Archer	[Phn.] +1 304 843 3100	Aug-2023
	josh.archer@williams.com	No	josh-archer-51251a17
Maintenance Manager	Josh Archer	[Phn.] +1 304 843 3100	Aug-2023
Maintenance Coordinator	josh.archer@williams.com	No	josh-archer-51251a17
Purchasing Manager	Josh Archer	[Phn.] +1 304 843 3100	Aug-2023

Utilities Manager	josh.archer@williams.com	No	josh-archer-51251a17
Engineering Manager	Austin Day	[Phn.] +1 412 787 3132	Aug-2023
	austin.day@williams.com	No	austin-day-102b2655
Environmental Manager Supervisor EH&S	Josh Muth	[Phn.] +1 304 517 1416	Aug-2023
		Yes	josh-muth-ms-44b45649
Safety Manager Supervisor EH&S	Josh Muth	[Phn.] +1 304 517 1416	Aug-2023
		Yes	josh-muth-ms-44b45649
Utilities Manager	Josh Archer	[Phn.] +1 304 843 3100	Aug-2023
	josh.archer@williams.com	No	josh-archer-51251a17
Human Resource Manager Manager of Talent Acquisition	Rachel Savage	[Phn.] +1 800 945 5426	Aug-2023
		No	

Historical Reports

Project Name	Report Date	TIV	Phase
CAMERON #2 NATURAL GAS GATHERING COMPRESSOR STATION	15-Nov-2017	10,000,000 USD	Permitting (P2 - 18)
CAMERON #2 NATURAL GAS GATHERING COMPRESSOR STATION	20-Nov-2017	10,000,000 USD	Permitting (P2 - 18)
CAMERON #2 NATURAL GAS GATHERING COMPRESSOR STATION	15-Mar-2018	10,000,000 USD	Construction - Union (C1 - 35)
CAMERON #2 NATURAL GAS GATHERING COMPRESSOR STATION	26-Jul-2018	10,000,000 USD	Construction - Union (C1 - 35)
CAMERON #2 NATURAL GAS GATHERING COMPRESSOR STATION	14-Sep-2018	10,000,000 USD	Construction - Union (C1 - 35)
CAMERON #2 NATURAL GAS GATHERING COMPRESSOR STATION	27-Sep-2018	10,000,000 USD	Completion/Start-Up (C1 - 41)

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Project Name MIDLAND GRASSROOT MIDLAND TO RANCHO SEALY CRUDE OIL PIPELINE
Umbrella Project Name MIDLAND TO RANCHO SEALY PROJECT

[PEC Activity Diagram](#)

Umbrella Project Count 5

Umbrella Project Summary

Industry Code 03 Oil & Gas Pipelines **Project Type** Grassroot
TIV (USD) 575,000,000
SIC Code 4612 Crude Petroleum Pipelines **Sector** Crude Pipelines
SIC Product 4612*0001 Crude Oil Pipelines
Status Complete / Done **Last Update** 19-Apr-2018 **Initial Release** 20-Mar-2014
Environmental Air (A) Land (L) **Construction Labor Preference** Unconfirmed
Operations Labor Preference Non-Union



Project Capacity **Planned** 540,000 BBL/d of Crude Oil

Pipeline Installation Details

Installation Type	Pipeline Length	Unit of Measure	Pipeline Diameter	Unit of Measure
Greenfield	416 Miles (mi)		24 Inches (in)	

Plant Owner Enterprise Products Partners LP **Plant Parent** Enterprise Products Partners LP
Plant Name Midland Crude Oil Pump Station **Unit Name**
Plant ID 3116074
Location 4500 East Highway 80 **Phone** +1 432 221 7700
City/State Midland, Texas 79706 U.S.A. **Zone/County** TX*06, Midland

Project Responsibility Project Company

Project Contact

Project Manager	Enterprise Products Partners LP P O Box 4324 Houston, Texas 77210-4324 U.S.A.	Randy Wiggins Project Manager [Tel.] +1 713 381 6500
Project Director	Enterprise Products Partners LP P O Box 4324 Houston, Texas 77210-4324 U.S.A.	John Macon Project Director [Tel.] +1 713 381 6500 [E-Mail] jtmacon@eprod.com
Project Executive	Enterprise Products Partners LP 1100 Louisiana Street, Suite 1000 Houston, Texas 77002 U.S.A.	Leonard Mallett Engineering VP [Tel.] +1 713 381 6500 [E-Mail] lmallett@eprod.com
G/C	Primoris Services Corporation 2100 McKinney Avenue Suite 1500 Dallas, Texas 75201 U.S.A.	Roger Thurman Regional Manager [Tel.] +1 214 740 5600 [E-Mail] rthurman@prim-es.com
G/C	Holloman Corporation 333 North Sam Houston Parkway East Suite 600 Houston, Texas 77060 U.S.A.	Eddie Pernell Construction Superintendent [Tel.] +1 281 878 2600 [E-Mail] eddiepernell@hollomancorp.com
G/C	Holloman Corporation 333 North Sam Houston Parkway East Suite 600 Houston, Texas 77060 U.S.A.	Shannon Driver Project Manager [Tel.] +1 281 878 2600
G/C	Pumpco Incorporated P O Box 742 Giddings, Texas 78942 U.S.A.	Shawn Pruet Project Manager [Tel.] +1 979 542 9054

PEC® Timing C1

PEC® Activity Completion/Start-Up

Project Probability Completed (100%)

Scope Enterprise Products awards Primoris Energy Services, Holloman Corporation, and Pumpco (Pipeline G/C's) and continues Construction for a Grassroot Crude Oil Pipeline. DETAILS: As part of the \$760 Million Midland to Rancho Sealy Project, construct 416 miles of 24" pipe with (10) integrity meters to transport 450,000 BBL/d of Permian Basin crude oil (West Texas Sour, West Texas Intermediate, Light West Texas Intermediate) and condensate from Midland, TX to Enterprise's Sealy Station (Plant ID: 3014032). REQUIRES: Site Preparation, Trenching, 24" Transmission Pipe, Road Crossings, Automated Control System, Cathodic Protection, Receiving, Coatings, Block/Control Valves, MCC Mods, Condensers, Metering and Controls. ENVIRONMENTAL: (A) Leak Detection; (L) Containment.

Schedule Enterprise Products with Primoris, Holloman, and Pumpco continues Final Commissioning and Ramp Up through 2Q18 (Jun). Enterprise with Primoris Holloman, and Pumpco releases remaining Equipment RFQ's and Subcontractor Bid Documents through 2Q17 (May). Construction Commenced 2Q17 (Apr). Scheduled Full-Service Operation and Project Completion 2Q18 (Jun).

Project Milestones	AFE 201704	Sub Bid Doc 201705	Completion 16-Apr-2018	Precision QUARTER
Long-Lead 201704	Equip RFQ 201705	Kick-Off 201704	Kickoff Slippage 8 Months	Duration 13 Months
Engineering	Electrical	Environmental	Instrumentation	
Contracting				
Project Key Needs	Civil/Site			

Instrumentation Electrical Mechanical NDE
Piping/Fittings Insulation/Coatings Environmental Utilities Valves
Communications Transportation

Matter Phase Liquid
Energy
Buy Electricity
Sell

Plant Standard Contacts

Functional/Actual Title	Contact Name/E-mail	Telephone/On-site	QC Date/LinkedIn ID
Plant Manager	Ralph Morris	[Phn.] +1 432 250 1173	Feb-2023
	ramorris@eprod.com	No	
Maintenance Manager	Rex Morsey	[Phn.] +1 432 681 2600 x3	Feb-2023
Pipeline Operation Supervisor	rhmorsey@eprod.com	No	rex-morsey-04566756
Purchasing Manager	Rex Morsey	[Phn.] +1 432 681 2600 x3	Feb-2023
Pipeline Operation Supervisor	rhmorsey@eprod.com	No	rex-morsey-04566756
Engineering Manager	Rex Morsey	[Phn.] +1 432 681 2600 x3	Feb-2023
Pipeline Operation Supervisor	rhmorsey@eprod.com	No	rex-morsey-04566756
Environmental Manager	Christopher Spore	[Phn.] +1 432 221 7746	Feb-2023
Lead Field Environmental Scientist	cspore@eprod.com	No	christopher-spore-p-g-61320b22
Safety Manager	Christopher Spore	[Phn.] +1 432 221 7746	Feb-2023
Lead Field Environmental Scientist	cspore@eprod.com	No	christopher-spore-p-g-61320b22
Utilities Manager	Rex Morsey	[Phn.] +1 432 681 2600 x3	Feb-2023
Pipeline Operation Supervisor	rhmorsey@eprod.com	No	rex-morsey-04566756
Human Resource Manager	Marilyn Hartman	[Phn.] +1 713 381 6500	Feb-2023
	mhartman@eprod.com	No	marilyn-hartman-349ab645

Historical Reports

Project Name	Report Date	TIV	Phase
MIDLAND GRASSROOT MIDLAND TO RANCHO SEALY CRUDE OIL PIPELINE	20-Mar-2014	572,000,000 USD	Economic Evaluation (P1 - 04)
MIDLAND GRASSROOT MIDLAND TO RANCHO SEALY CRUDE OIL PIPELINE	22-Sep-2014	572,000,000 USD	Economic Evaluation (P1 - 04)
MIDLAND GRASSROOT MIDLAND TO RANCHO SEALY CRUDE OIL PIPELINE	21-Jan-2015	572,000,000 USD	Economic Evaluation (P1 - 04)
MIDLAND GRASSROOT MIDLAND TO RANCHO SEALY CRUDE OIL PIPELINE	15-May-2015	575,000,000 USD	Preliminary Design (P1 - 07)
MIDLAND GRASSROOT MIDLAND TO RANCHO SEALY CRUDE OIL PIPELINE	27-Jul-2015	575,000,000 USD	Preliminary Design (P1 - 07)
MIDLAND GRASSROOT MIDLAND TO RANCHO SEALY CRUDE OIL PIPELINE	12-Jan-2016	575,000,000 USD	Permitting (P2 - 18)
MIDLAND GRASSROOT MIDLAND TO RANCHO SEALY CRUDE OIL PIPELINE	06-Apr-2016	575,000,000 USD	Permitting (P2 - 18)
MIDLAND GRASSROOT MIDLAND TO RANCHO SEALY CRUDE OIL PIPELINE	25-May-2016	575,000,000 USD	Permitting (P2 - 18)
MIDLAND GRASSROOT MIDLAND TO RANCHO SEALY CRUDE OIL PIPELINE	13-Oct-2016	575,000,000 USD	Owner Review of Issue (P2 - 19)
MIDLAND GRASSROOT MIDLAND TO RANCHO SEALY CRUDE OIL PIPELINE	10-May-2017	575,000,000 USD	Construction - Merit Shop (C1 - 36)
MIDLAND GRASSROOT MIDLAND TO RANCHO SEALY CRUDE OIL PIPELINE	23-Jan-2018	575,000,000 USD	Final Commissioning (C1 - 40)
MIDLAND GRASSROOT MIDLAND TO RANCHO SEALY CRUDE OIL PIPELINE	19-Apr-2018	575,000,000 USD	Completion/Start-Up (C1 - 41)



Project Name PLAQUEMINE GRASSROOT AEGIS BAYOU SORREL NGL PUMP STATION
Umbrella Project Name AEGIS PIPELINE

[PEC Activity Diagram](#)

Umbrella Project Count 10

Umbrella Project Summary

Industry Code 03 Oil & Gas Pipelines
TIV (USD) 30,000,000
SIC Code 4922 Natural Gas Transmission
SIC Product 4922*0009 Natural Gas Liquids Pump Station
Status Complete / Done
Environmental Air (A) Land (L)
Project Type Grassroot
Sector Natural Gas Liquids Pipelines
Last Update 31-Dec-2015
Initial Release 25-Feb-2015
Construction Labor Preference Unconfirmed
Operations Labor Preference Non-Union



Plant Owner Enterprise Products Partners LP
Plant Name Bayou Sorrel NGL Pump Station
Plant ID 3146219
Location 0.5 miles North of Bayou Sorrel on Route 75
City/State Plaquemine, Louisiana 70764 U.S.A.
Plant Parent Enterprise Products Partners LP
Unit Name Bayou Sorrel 01 EM Bayou Sorrel 02 Spare EM
Phone +1 713 381 6500
Zone/County LA*02, Iberville

Project Responsibility Project Company

Project Contact

<p>Project Executive Enterprise Products Partners LP 1100 Louisiana Street, Suite 1000 Houston, Texas 77002 U.S.A.</p>	<p>Kevin Ramsey Senior Project Director [Tel.] +1 713 381 6500 [E-Mail] keramsey@eprod.com ; [LinkedIn] kevin-ramsey-61491013</p>
<p>Project Director Enterprise Products Partners LP 1100 Louisiana Street, Suite 1000 Houston, Texas 77002 U.S.A.</p>	<p>Alicia Copenhaver Project Director [Tel.] +1 713 381 6500 [E-Mail] acopenhaver@eprod.com</p>
<p>Project Manager Enterprise Products Partners LP 1100 Louisiana Street, Suite 1000 Houston, Texas 77002 U.S.A.</p>	<p>Tafrieda Moorehead Project Manager [Tel.] +1 713 381 6500 [E-Mail] ttmoorehead@eprod.com ; [LinkedIn] tafreda-moorehead-40b483116</p>
<p>Consultant Atkins Global 1250 Wood Branch Park Drive Suite 300 Houston, Texas 77079 U.S.A.</p>	<p>Michael Dyke Project Manager [Tel.] +1 281 493 5100</p>
<p>Eng NorthStar Energy Services 920 Memorial City Way Houston, Texas 77024 U.S.A.</p>	<p>Daniel Alcorn Vice President Engineering [Tel.] +1 281 452 2355</p>
<p>G/C Holloman Corporation 333 North Sam Houston Parkway East Suite 600 Houston, Texas 77060 U.S.A.</p>	<p>Shannon Driver Project Manager [Tel.] +1 281 878 2600</p>

PEC® Timing C1

PEC® Activity Completion/Start-Up

Project Probability Completed (100%)

Scope Enterprise Products awards Atkins Global (Environmental Consultant), Northstar Energy Services (Detailed Engineering), and Holloman Corporation (G/C) and continues Construction on a Grassroot NGL Pump Station. DETAILS: As part of the Aegis Pipeline Project, construct buildings and install (1) 1,750 hp mainline and (1) 900 hp spare Westinghouse electric motor-driven horizontal multi-stage pump packages to support the planned Aegis Pipeline Phases I & II Projects (Project ID's: 300153181, 300153189). REQUIRES: Foundations, Buildings, Electric-Motor Pump Packages (PURCHASED), Gear Boxes, Headers, Station Piping, Manifolds, Control Valves, Pipeyard, Pipeline Interconnections, Coatings, Switchgear, Transformers, Electrical Utilities plus Controls. ENVIRONMENTAL: (A) Flare, Leak Detection; (L) Containment, Liners.

Schedule Enterprise Products with Atkins Global (Environmental Consultant) and Holloman Corporation (G/C) continues Construction through 3Q15 (Jul). Holloman will release remaining Subcontractor Bid Documents through 2Q15 (Apr). Construction Commenced 2Q15 (May). Expected Project Completion 4Q15 (Dec).

Project Milestones	AFE 201504	Sub Bid Doc 201504	Completion 30-Dec-2015	Precision MONTH
	Equip RFQ 201504	Kick-Off 201505	Kickoff Slippage 1 Months	Duration 8 Months

Engineering

Contracting Electrical Environmental Instrumentation

Project Key Needs Civil/Site Structural Control Room

Instrumentation	Electrical	Mechanical		NDE
Piping/Fittings	Insulation/Coatings	Environmental Utilities	Valves	Pumps
Communications				Transportation

Matter Phase Liquid

Energy

Buy Electricity
Sell

Plant Standard Contacts

Functional/Actual Title	Contact Name/E-mail	Telephone/On-site	QC Date/LinkedIn ID
Plant Manager	Scott Slack	[Phn.] +1 318 752 4362	Mar-2023
Operations Supervisor	sdslack@eprod.com	No	scott-slack-2055ba126
Maintenance Manager	Scott Slack	[Phn.] +1 318 752 4362	Mar-2023
Operations Supervisor	sdslack@eprod.com	No	scott-slack-2055ba126
Purchasing Manager	Scott Slack	[Phn.] +1 318 752 4362 x110	Mar-2023
Operations Supervisor	sdslack@eprod.com	No	scott-slack-2055ba126
Engineering Manager	Scott Slack	[Phn.] +1 318 752 4362 x110	Mar-2023
Operations Supervisor	sdslack@eprod.com	No	scott-slack-2055ba126
Environmental Manager	Rodney Sartor	[Phn.] +1 713 381 6500	Mar-2023
Senior Director Environmental	rsartor@eprod.com	No	rodney-m-sartor-35231158
Safety Manager	Jeff Hoffstadt	[Phn.] +1 210 528 3252 / [Alt.] +1 956 642 6025 (Mobile)	Mar-2023
Regional Safety Manager		No	jeff-hoffstadt-27496b32
Utilities Manager	Scott Slack	[Phn.] +1 318 752 4362 x110	Mar-2023
Operations Manager	sdslack@eprod.com	No	scott-slack-2055ba126
Human Resource Manager	Esmeralda Galvan	[Phn.] +1 713 381 6500	Mar-2023
Director Human Resource	egalvan@eprod.com	No	esmeralda-galvan-a7b92a4

Historical Reports

Project Name	Report Date	TIV	Phase
PLAQUEMINE GRASSROOT AEGIS BAYOU SORREL NGL PUMP STATION	25-Feb-2015	30,000,000 USD	Permitting (P2 - 18)
PLAQUEMINE GRASSROOT AEGIS BAYOU SORREL NGL PUMP STATION	30-Mar-2015	30,000,000 USD	Permitting (P2 - 18)
PLAQUEMINE GRASSROOT AEGIS BAYOU SORREL NGL PUMP STATION	08-Jun-2015	30,000,000 USD	Construction - Merit Shop (C1 - 36)
PLAQUEMINE GRASSROOT AEGIS BAYOU SORREL NGL PUMP STATION	31-Jul-2015	30,000,000 USD	Construction - Merit Shop (C1 - 36)
PLAQUEMINE GRASSROOT AEGIS BAYOU SORREL NGL PUMP STATION	13-Oct-2015	30,000,000 USD	Construction - Merit Shop (C1 - 36)
PLAQUEMINE GRASSROOT AEGIS BAYOU SORREL NGL PUMP STATION	31-Dec-2015	30,000,000 USD	Completion/Start-Up (C1 - 41)



Project Name SORRENTO GRASSROOT AEGIS NGL PUMP STATION
Umbrella Project Name AEGIS PIPELINE

[PEC Activity Diagram](#)

Umbrella Project Count 10

Umbrella Project Summary

Industry Code 03 Oil & Gas Pipelines
TIV (USD) 30,000,000
SIC Code 4922 Natural Gas Transmission
SIC Product 4922*0009 Natural Gas Liquids Pump Station
Status Complete / Done
Environmental Air (A) Land (L)
Project Type Grassroot
Sector Natural Gas Liquids Pipelines
Last Update 31-Dec-2015
Initial Release 29-Sep-2014
Construction Labor Preference Unconfirmed
Operations Labor Preference Non-Union



Plant Owner Enterprise Products Partners LP
Plant Name Sorrento NGL Pump Station
Plant ID 3132800
Location 47433 Texaco Road
City/State Sorrento, Louisiana 70778 U.S.A.
Plant Parent Enterprise Products Partners LP
Unit Name Sorrento 01 EM Sorrento 02 EM
Phone +1 225 675 5378
Zone/Country LA*02, Ascension

Project Responsibility Project Company

Project Manager Enterprise Products Partners LP
 1100 Louisiana Street, Suite 1000
 Houston, Texas 77002
 U.S.A.

Project Contact

Tafrieda Moorehead
 Project Manager
 [Tel.] +1 713 381 6500
 [E-Mail] tmoorehead@eprod.com ; [LinkedIn] tafreda-moorehead-40b483116

Project Director Enterprise Products Partners LP
 1100 Louisiana Street, Suite 1000
 Houston, Texas 77002
 U.S.A.

Alicia Copenhaver
 Project Director
 [Tel.] +1 713 381 6500
 [E-Mail] acopenhaver@eprod.com

Consultant Atkins Global
 1250 Wood Branch Park Drive Suite 300
 Houston, Texas 77079
 U.S.A.

Michael Dyke
 Project Manager
 [Tel.] +1 281 493 5100

G/C Holloman Corporation
 333 North Sam Houston Parkway East Suite 600
 Houston, Texas 77060
 U.S.A.

Shannon Driver
 Project Manager
 [Tel.] +1 281 878 2600

PEC® Timing C1

PEC® Activity Completion/Start-Up

Project Probability Completed (100%)

Scope Enterprise Products with Atkins Global (Environmental Consultant) and Holloman Corporation (G/C) begins Construction on a Grassroot NGL Pump Station. DETAILS: As part of the Aegis Pipeline Project Spread 3, Construct buildings and install (2) 500 hp TECO-Westinghouse electric motor-driven Best Pump pump packages to support the planned 425,000 BBL/d Aegis NGL Pipeline Spread 3 (Project ID 300153189). REQUIRES: Foundations, Buildings, Electric Motor-Driven Pump Packages, Gear Boxes, Headers, Station Piping, Manifolds, Control Valves, Pipeyard, Pipeline Interconnections, Coatings, Switchgear, Transformers, Electrical Utilities plus Controls. ENVIRONMENTAL: (A) Flare, Leak Detection; (L) Containment, Liners.

Schedule Enterprise Products with Atkins Global (Environmental Consultant) and Holloman Corporation (G/C) continues Construction through 3Q15 (Jul). Holloman will release remaining Subcontractor Bid Documents through 2Q15 (Apr). Construction Commenced 1Q15 (Mar). Expected Project Completion 4Q15 (Dec).

Project Milestones	AFE 201502	Sub Bid Doc 201504	Completion 30-Dec-2015	Precision MONTH
Long-Lead 201503	Equip RFQ 201504	Kick-Off 201503	Kickoff Slippage 1 Months	Duration 10 Months
Engineering				
Contracting	Electrical	Environmental	Instrumentation	
Project Key Needs	Civil/Site	Structural	Control Room	
	Instrumentation	Electrical	Mechanical	NDE
	Piping/Fittings	Insulation/Coatings	Environmental Utilities	Pumps
	Communications			Transportation
Matter Phase	Liquid			
Energy				
Buy	Electricity			
Sell				

Plant Standard Contacts

Functional/Actual Title	Contact Name/E-mail	Telephone/On-site	QC Date/LinkedIn ID
Plant Manager	Jason Dickens j.dickens@eprod.com	[Phn.] +1 225 675 2515 No	Oct-2022
Maintenance Manager	Jason Dickens	[Phn.] +1 225 675 2515	Oct-2022
Plant Manager	j.dickens@eprod.com	No	

Purchasing Manager	Jason Dickens	[Phn.] +1 225 675 2515	Oct-2022
Plant Manager	j.dickens@eprod.com	No	
Engineering Manager	Jason Dickens	[Phn.] +1 225 675 2515	Oct-2022
Plant Manager	j.dickens@eprod.com	No	
Environmental Manager	Rodney Sartor	[Phn.] +1 713 381 6500	Oct-2022
Senior Director Environmental	rsartor@eprod.com	No	rodney-m-sartor-35231158
Safety Manager	Bruce Wheatley	[Phn.] +1 713 381 6500	Oct-2022
	bwheatley@eprod.com	No	bruce-wheatley-300a1871
Utilities Manager	Jason Dickens	[Phn.] +1 225 675 2515	Oct-2022
Plant Manager	j.dickens@eprod.com	No	
Human Resource Manager	Esmeralda Galvan	[Phn.] +1 713 381 6500	Oct-2022
Director Human Resource	egalvan@eprod.com	No	esmeralda-galvan-a7b92a4

Historical Reports

Project Name	Report Date	TIV	Phase
SORRENTO GRASSROOT AEGIS NGL PUMP STATION	29-Sep-2014	30,000,000 USD	Permitting (P2 - 18)
SORRENTO GRASSROOT AEGIS NGL PUMP STATION	13-Jan-2015	30,000,000 USD	Permitting (P2 - 18)
SORRENTO GRASSROOT AEGIS NGL PUMP STATION	24-Feb-2015	30,000,000 USD	Permitting (P2 - 18)
SORRENTO GRASSROOT AEGIS NGL PUMP STATION	30-Mar-2015	30,000,000 USD	Construction - Merit Shop (C1 - 36)
SORRENTO GRASSROOT AEGIS NGL PUMP STATION	31-Jul-2015	30,000,000 USD	Construction - Merit Shop (C1 - 36)
SORRENTO GRASSROOT AEGIS NGL PUMP STATION	13-Oct-2015	30,000,000 USD	Construction - Merit Shop (C1 - 36)
SORRENTO GRASSROOT AEGIS NGL PUMP STATION	31-Dec-2015	30,000,000 USD	Completion/Start-Up (C1 - 41)



Project Name BELLE ROSE GRASSROOT GRAND JUNCTION BAYOU AEGIS NGL PUMP ST,
Umbrella Project Name AEGIS PIPELINE

[PEC Activity Diagram](#)

Umbrella Project Count 10

Umbrella Project Summary

Industry Code 03 Oil & Gas Pipelines **Project Type** Grassroot
TIV (USD) 30,000,000
SIC Code 4922 Natural Gas Transmission **Sector** Natural Gas Liquids Pipelines
SIC Product 4922*0009 Natural Gas Liquids Pump Station
Status Complete / Done **Last Update** 31-Dec-2015 **Initial Release** 29-Sep-2014
Environmental Air (A) Land (L) **Construction Labor Preference** Unconfirmed
Operations Labor Preference Non-Union



Plant Owner Enterprise Products Partners LP **Plant Parent** Enterprise Products Partners LP
Plant Name Belle Rose Grand Junction Bayou NGL Pump Station **Unit Name** Grand Junction Bayou 01 & 02 EM
Plant ID 3132797
Location Off Route 70, West of Magnolia, stocks stupid **Phone** +1 713 381 6500
City/State Belle Rose, Louisiana 70341 U.S.A. **Zone/County** LA*02, Assumption

Project Responsibility Project Company

Project Contact

Project Manager	Enterprise Products Partners LP 1100 Louisiana Street, Suite 1000 Houston, Texas 77002 U.S.A.	Tafrieda Moorehead Project Manager [Tel.] +1 713 381 6500 [E-Mail] ttmoorehead@eprod.com ; [LinkedIn] tafreda-moorehead-40b483116
Project Director	Enterprise Products Partners LP 1100 Louisiana Street, Suite 1000 Houston, Texas 77002 U.S.A.	Alicia Copenhaver Project Director [Tel.] +1 713 381 6500 [E-Mail] acopenhaver@eprod.com
Consultant	Atkins Global 1250 Wood Branch Park Drive Suite 300 Houston, Texas 77079 U.S.A.	Michael Dyke Project Manager [Tel.] +1 281 493 5100
G/C	Holloman Corporation 333 North Sam Houston Parkway East Suite 600 Houston, Texas 77060 U.S.A.	Shannon Driver Project Manager [Tel.] +1 281 878 2600

PEC® Timing C1

PEC® Activity Completion/Start-Up

Project Probability Completed (100%)

Scope Enterprise Products with Atkins Global (Environmental Consultant) and Holloman Corporation (G/C) begins Construction on a Grassroot NGL Pump Station. DETAILS: As part of the Aegis Pipeline Project Spread 3, Construct buildings and install (2) 500 hp TECO-Westinghouse electric motor-driven Best Pump pump packages to support the planned 425,000 BBL/d Aegis NGL Pipeline Spread 3 (Project ID 300153189). REQUIRES: Foundations, Buildings, Electric Motor-Driven Pump Packages, Gear Boxes, Headers, Station Piping, Manifolds, Control Valves, Pipeyard, Pipeline Interconnections, Coatings, Switchgear, Transformers, Electrical Utilities plus Controls. ENVIRONMENTAL: (A) Flare, Leak Detection; (L) Containment, Liners.

Schedule Enterprise Products with Atkins Global (Environmental Consultant) and Holloman Corporation (G/C) continues Construction through 3Q15 (Jul). Holloman will release remaining Subcontractor Bid Documents through 2Q15 (Apr). Construction Commenced 1Q15 (Mar). Expected Project Completion 4Q15 (Dec).

Project Milestones	AFE 201502	Sub Bid Doc 201504	Completion 30-Dec-2015	Precision MONTH
Long-Lead 201503	Equip RFQ 201504	Kick-Off 201503	Kickoff Slippage 0 Months	Duration 10 Months
Engineering	Electrical	Environmental	Instrumentation	Mechanical
Contracting	Civil/Site	Structural	Control Room	
Project Key Needs	Instrumentation	Electrical	Mechanical	NDE
	Piping/Fittings	Insulation/Coatings	Environmental Utilities	Pumps
	Communications			Transportation
Matter Phase	Liquid			
Energy				
Buy	Electricity			
Sell				

Plant Standard Contacts

Functional/Actual Title	Contact Name/E-mail	Telephone/On-site	QC Date/LinkedIn ID
Plant Manager	Terrell Hodges	[Phn.] +1 318 401 0093	Sep-2022
Area Manager	thodges@eprod.com	No	
Maintenance Manager	Terrell Hodges	[Phn.] +1 318 401 0093	Sep-2022

Area Manager	thodges@eprod.com	No	
Purchasing Manager	Terrell Hodges	[Phn.] +1 318 401 0093	Sep-2022
Area Manager	thodges@eprod.com	No	
Engineering Manager	Kevin Ramsey	[Phn.] +1 713 381 4850	Sep-2022
	keramsey@eprod.com	No	kevin-ramsey-61491013
Environmental Manager	Damien Watt	[Phn.] +1 225 379 6900 / [Alt.] +1 832 776 2172	Sep-2022
	dtwatt@eprod.com	No	damienwatt
Safety Manager	Damien Watt	[Phn.] +1 225 379 6900 / [Alt.] +1 832 776 2172	Sep-2022
Environmental Manager	dtwatt@eprod.com	No	damienwatt
Utilities Manager	Terrell Hodges	[Phn.] +1 318 401 0093	Sep-2022
Area Manager	thodges@eprod.com	No	
Human Resource Manager	Esmeralda Galvan	[Phn.] +1 713 381 6500	Sep-2022
Director of Human Resources	egalvan@eprod.com	No	esmeralda-galvan-a7b92a4

Historical Reports

Project Name	Report Date	TIV	Phase
BELLE ROSE GRASSROOT GRAND JUNCTION BAYOU AEGIS NGL PUMP STATION	29-Sep-2014	30,000,000 USD	Permitting (P2 - 18)
BELLE ROSE GRASSROOT GRAND JUNCTION BAYOU AEGIS NGL PUMP STATION	13-Jan-2015	30,000,000 USD	Permitting (P2 - 18)
BELLE ROSE GRASSROOT GRAND JUNCTION BAYOU AEGIS NGL PUMP STATION	24-Feb-2015	30,000,000 USD	Permitting (P2 - 18)
BELLE ROSE GRASSROOT GRAND JUNCTION BAYOU AEGIS NGL PUMP STATION	30-Mar-2015	30,000,000 USD	Construction - Merit Shop (C1 - 36)
BELLE ROSE GRASSROOT GRAND JUNCTION BAYOU AEGIS NGL PUMP STATION	31-Jul-2015	30,000,000 USD	Construction - Merit Shop (C1 - 36)
BELLE ROSE GRASSROOT GRAND JUNCTION BAYOU AEGIS NGL PUMP STATION	13-Oct-2015	30,000,000 USD	Construction - Merit Shop (C1 - 36)
BELLE ROSE GRASSROOT GRAND JUNCTION BAYOU AEGIS NGL PUMP STATION	31-Dec-2015	30,000,000 USD	Completion/Start-Up (C1 - 41)

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Project Name GEISMAR GRASSROOT AEGIS TEBONE NGL PUMP STATION
Umbrella Project Name AEGIS PIPELINE

[PEC Activity Diagram](#)

Umbrella Project Count 10

Umbrella Project Summary

Industry Code 03 Oil & Gas Pipelines
TIV (USD) 30,000,000
SIC Code 4922 Natural Gas Transmission
SIC Product 4922*0009 Natural Gas Liquids Pump Station
Status Complete / Done
Environmental Air (A) Land (L)
Project Type Grassroot
Sector Natural Gas Liquids Pipelines
Last Update 31-Dec-2015
Initial Release 29-Sep-2014
Construction Labor Preference Unconfirmed
Operations Labor Preference Union, Non-Unio



Plant Owner Enterprise Products Partners LP
Plant Name Geismar NGL Pump Station
Plant ID 3132790
Location 10324 Highway 75
City/State Geismar, Louisiana 70734-3405 U.S.A.
Plant Parent Enterprise Products Partners LP
Unit Name Tebone 01 EM Tebone 02 EM
Phone +1 225 677 1100
Zone/County LA*02, Ascension

Project Responsibility Project Company

Project Manager Enterprise Products Partners LP
 1100 Louisiana Street, Suite 1000
 Houston, Texas 77002
 U.S.A.

Project Contact

Tafrieda Moorehead
 Project Manager - Facilities
 [Tel.] +1 713 381 6500
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Project Director Enterprise Products Partners LP
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Alicia Copenhaver
 Project Director
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Consultant Atkins Global
 1250 Wood Branch Park Drive Suite 300
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 U.S.A.

Michael Dyke
 Project Manager
 [Tel.] +1 281 493 5100

G/C Holloman Corporation
 333 North Sam Houston Parkway East Suite 600
 Houston, Texas 77060
 U.S.A.

Shannon Driver
 Project Manager
 [Tel.] +1 281 878 2600

PEC® Timing C1

PEC® Activity Completion/Start-Up

Project Probability Completed (100%)

Scope Enterprise Products with Atkins Global (Environmental Consultant) and Holloman Corporation (G/C) begins Construction on a Grassroot NGL Pump Station. DETAILS: As part of the Aegis Pipeline Project Spread 3, Construct buildings and install (2) 500 hp TECO-Westinghouse electric motor-driven Best Pump pump packages to support the planned 425,000 BBL/d Aegis NGL Pipeline Spread 3 (Project ID 300153189). REQUIRES: Foundations, Buildings, Electric Motor-Driven Pump Packages, Gear Boxes, Headers, Station Piping, Manifolds, Control Valves, Pipeyard, Pipeline Interconnections, Coatings, Switchgear, Transformers, Electrical Utilities plus Controls. ENVIRONMENTAL: (A) Flare, Leak Detection; (L) Containment, Liners.

Schedule Enterprise Products with Atkins Global (Environmental Consultant) and Holloman Corporation (G/C) continues Construction through 3Q15 (Jul). Holloman will release remaining Subcontractor Bid Documents through 2Q15 (Apr). Construction Commenced 1Q15 (Mar). Expected Project Completion 4Q15 (Dec).

Project Milestones	AFE 201502	Sub Bid Doc 201504	Completion 30-Dec-2015	Precision MONTH
Long-Lead 201503	Equip RFQ 201504	Kick-Off 201503	Kickoff Slippage 0 Months	Duration 10 Months
Engineering				
Contracting	Electrical	Environmental	Instrumentation	Mechanical
Project Key Needs	Civil/Site	Structural	Control Room	
	Instrumentation	Electrical	Mechanical	NDE
	Piping/Fittings	Insulation/Coatings	Environmental Utilities	Valves
	Communications			Pumps
				Transportation
Matter Phase	Liquid			
Energy				
Buy	Electricity			
Sell				

Plant Standard Contacts

Functional/Actual Title	Contact Name/E-mail	Telephone/On-site	QC Date/LinkedIn ID
Plant Manager	Jason Dickens j.dickens@eprod.com	[Phn.] +1 225 675 2515 No	Sep-2022
Maintenance Manager	Jason Dickens j.dickens@eprod.com	[Phn.] +1 225 675 2515 No	Sep-2022

Purchasing Manager	Jason Dickens j.dickens@eprod.com	[Phn.] +1 225 675 2515 No	Sep-2022
Engineering Manager	Kevin Ramsey keramsey@eprod.com	[Phn.] +1 713 381 4850 No	Sep-2022 kevin-ramsey-61491013
Environmental Manager	Rodney Sartor rsartor@eprod.com	[Phn.] +1 713 381 6500 No	Sep-2022 rodney-m-sartor-35231158
Senior Director Environmental			
Safety Manager	Bruce Wheatley bwheatley@eprod.com	[Phn.] +1 713 381 6500 No	Sep-2022 bruce-wheatley-300a1871
Utilities Manager	Jason Dickens j.dickens@eprod.com	[Phn.] +1 225 675 2515 No	Sep-2022
Human Resource Manager	Esmeralda Galvan egalvan@eprod.com	[Phn.] +1 713 381 6500 No	Sep-2022 esmeralda-galvan-a7b92a4
Director of Human Resources			

Historical Reports

Project Name	Report Date	TIV	Phase
GEISMAR GRASSROOT AEGIS TEBONE NGL PUMP STATION	29-Sep-2014	30,000,000 USD	Permitting (P2 - 18)
GEISMAR GRASSROOT AEGIS TEBONE NGL PUMP STATION	13-Jan-2015	30,000,000 USD	Permitting (P2 - 18)
GEISMAR GRASSROOT AEGIS TEBONE NGL PUMP STATION	24-Feb-2015	30,000,000 USD	Permitting (P2 - 18)
GEISMAR GRASSROOT AEGIS TEBONE NGL PUMP STATION	30-Mar-2015	30,000,000 USD	Construction - Merit Shop (C1 - 36)
GEISMAR GRASSROOT AEGIS TEBONE NGL PUMP STATION	31-Jul-2015	30,000,000 USD	Construction - Merit Shop (C1 - 36)
GEISMAR GRASSROOT AEGIS TEBONE NGL PUMP STATION	13-Oct-2015	30,000,000 USD	Construction - Merit Shop (C1 - 36)
GEISMAR GRASSROOT AEGIS TEBONE NGL PUMP STATION	31-Dec-2015	30,000,000 USD	Completion/Start-Up (C1 - 41)



Project Name BELLE ROSE GRASSROOT AEGIS NGL PUMP STATION
Umbrella Project Name AEGIS PIPELINE

[PEC Activity Diagram](#)

Umbrella Project Count 10

Umbrella Project Summary

Industry Code 03 Oil & Gas Pipelines
TIV (USD) 30,000,000
SIC Code 4922 Natural Gas Transmission
SIC Product 4922*0009 Natural Gas Liquids Pump Station
Status Complete / Done
Environmental Air (A) Land (L)
Project Type Grassroot
Sector Natural Gas Liquids Pipelines
Last Update 31-Dec-2015
Initial Release 12-Feb-2014
Construction Labor Preference Unconfirmed
Operations Labor Preference Union, Non-Unio



Plant Owner Enterprise Products Partners LP
Plant Name Belle Rose NGL Pump Station
Plant ID 3114846
Location 6225 Highway 996
City/State Belle Rose, Louisiana 70341-5338 U.S.A.
Plant Parent Enterprise Products Partners LP
Unit Name Belle Rose 01 EM, 02 EM Spare
Phone +1 985 369 5000
Zone/County LA*02, Assumption

Project Responsibility Project Company

Project Contact

Project Executive	Enterprise Products Partners LP 1100 Louisiana Street, Suite 1000 Houston, Texas 77002 U.S.A.	Kevin Ramsey Project Director [Tel.] +1 713 381 6500 [E-Mail] keramsey@eprod.com ; [LinkedIn] kevin-ramsey-61491013
Project Director	Enterprise Products Partners LP 1100 Louisiana Street, Suite 1000 Houston, Texas 77002 U.S.A.	Alicia Copenhaver Project Director [Tel.] +1 713 381 6500 [E-Mail] acopenhaver@eprod.com
Project Manager	Enterprise Products Partners LP 1100 Louisiana Street, Suite 1000 Houston, Texas 77002 U.S.A.	Tafrieda Moorehead Project Manager [Tel.] +1 713 381 6500 [E-Mail] tmoorehead@eprod.com ; [LinkedIn] tafreda-moorehead-40b483116
Consultant	Atkins Global 1250 Wood Branch Park Drive Suite 300 Houston, Texas 77079 U.S.A.	Michael Dyke Project Manager [Tel.] +1 281 493 5100
Eng	NorthStar Energy Services 920 Memorial City Way Houston, Texas 77024 U.S.A.	Daniel Alcorn Vice President Engineering [Tel.] +1 281 452 2355
G/C	Holloman Corporation 333 North Sam Houston Parkway East Suite 600 Houston, Texas 77060 U.S.A.	Shannon Driver Project Manager [Tel.] +1 281 878 2600

PEC® Timing C1

PEC® Activity Completion/Start-Up

Project Probability Completed (100%)

Scope Enterprise Products awards Atkins Global (Environmental Consultant), Northstar Energy Services (Detailed Engineering), and Holloman Corporation (G/C) and continues Construction on a Grassroot NGL Pump Station. DETAILS: As part of the Aegis Pipeline Project, construct buildings and install (1) 1,750 hp mainline and (1) 900 hp spare Westinghouse electric motor-driven horizontal multi-stage pump packages to support the planned Aegis Pipeline Phases I & II Projects (Project ID's: 300153181, 300153189). REQUIRES: Foundations, Buildings, Electric-Motor Pump Packages (PURCHASED), Gear Boxes, Headers, Station Piping, Manifolds, Control Valves, Pipeyard, Pipeline Interconnections, Coatings, Switchgear, Transformers, Electrical Utilities plus Controls. ENVIRONMENTAL: (A) Flare, Leak Detection; (L) Containment, Liners.

Schedule Enterprise Products with Atkins Global (Environmental Consultant), Northstar (Detailed Engineering) and Holloman Corporation (G/C) continues Construction through 3Q15 (Jul). Holloman will release remaining Subcontractor Bid Documents through 2Q15 (Apr). Construction Commenced 1Q15 (Mar). Expected Project Completion 4Q15 (Dec).

Project Milestones	AFE 201502	Sub Bid Doc 201503	Completion 30-Dec-2015	Precision MONTH
	Equip RFQ 201503	Kick-Off 201503	Kickoff Slippage 5 Months	Duration 10 Months
Engineering Contracting	Electrical	Environmental	Instrumentation	
Project Key Needs	Civil/Site	Control Room		
	Instrumentation	Electrical	Mechanical	NDE
	Piping/Fittings	Insulation/Coatings	Environmental Utilities	Valves
	Communications			Pumps
Matter Phase	Liquid			Transportation
Energy				

Buy Electricity
Sell

Plant Standard Contacts

Functional/Actual Title	Contact Name/E-mail	Telephone/On-site	QC Date/LinkedIn ID
Plant Manager	Terrell Hodges	[Phn.] +1 318 401 0093	Oct-2022
Area Manager	thodges@eprod.com	No	
Maintenance Manager	Terrell Hodges	[Phn.] +1 318 401 0093	Oct-2022
Area Manager	thodges@eprod.com	No	
Purchasing Manager	Terrell Hodges	[Phn.] +1 318 401 0093	Oct-2022
Area Manager	thodges@eprod.com	No	
Engineering Manager	Kevin Ramsey	[Phn.] +1 713 381 4850	Oct-2022
Director of Project Management	keramsey@eprod.com	No	kevin-ramsey-61491013
Environmental Manager	Rodney Sartor	[Phn.] +1 713 381 6500	Oct-2022
Senior Director Environmental	rsartor@eprod.com	No	rodney-m-sartor-35231158
Safety Manager	Bruce Wheatley	[Phn.] +1 713 381 6500	Oct-2022
Senior Safety / PSM Coordinator	bwheatley@eprod.com	No	bruce-wheatley-300a1871
Utilities Manager	Terrell Hodges	[Phn.] +1 318 401 0093	Oct-2022
Area Manager	thodges@eprod.com	No	
Human Resource Manager	John Cooksey	[Phn.] +1 713 381 6500	Oct-2022
Senior Human Resources Director	jcooksey@eprod.com	No	john-p-cooksey-463192111

Historical Reports

Project Name	Report Date	TIV	Phase
NAPOLEONVILLE GRASSROOT AEGIS NGL PUMP STATION	12-Feb-2014	30,000,000 USD	Permitting (P2 - 18)
NAPOLEONVILLE GRASSROOT AEGIS NGL PUMP STATION	24-Apr-2014	30,000,000 USD	Permitting (P2 - 18)
NAPOLEONVILLE GRASSROOT AEGIS NGL PUMP STATION	25-Jun-2014	30,000,000 USD	Permitting (P2 - 18)
BELLE ROSE GRASSROOT AEGIS NGL PUMP STATION	14-Aug-2014	30,000,000 USD	Permitting (P2 - 18)
BELLE ROSE GRASSROOT AEGIS NGL PUMP STATION	26-Sep-2014	30,000,000 USD	Permitting (P2 - 18)
BELLE ROSE GRASSROOT AEGIS NGL PUMP STATION	09-Jan-2015	30,000,000 USD	Permitting (P2 - 18)
BELLE ROSE GRASSROOT AEGIS NGL PUMP STATION	24-Feb-2015	30,000,000 USD	Permitting (P2 - 18)
BELLE ROSE GRASSROOT AEGIS NGL PUMP STATION	30-Mar-2015	30,000,000 USD	Construction - Merit Shop (C1 - 36)
BELLE ROSE GRASSROOT AEGIS NGL PUMP STATION	31-Jul-2015	30,000,000 USD	Construction - Merit Shop (C1 - 36)
BELLE ROSE GRASSROOT AEGIS NGL PUMP STATION	13-Oct-2015	30,000,000 USD	Construction - Merit Shop (C1 - 36)
BELLE ROSE GRASSROOT AEGIS NGL PUMP STATION	31-Dec-2015	30,000,000 USD	Completion/Start-Up (C1 - 41)



Project Name BREAUX BRIDGE GRASSROOT AEGIS PROMIX NGL PUMP STATION
Umbrella Project Name AEGIS PIPELINE

[PEC Activity Diagram](#)

Umbrella Project Count 10

Umbrella Project Summary

Industry Code 03 Oil & Gas Pipelines
TIV (USD) 30,000,000
SIC Code 4922 Natural Gas Transmission
SIC Product 4922*0009 Natural Gas Liquids Pump Station
Status Complete / Done
Environmental Air (A) Land (L)
Project Type Grassroot
Sector Natural Gas Liquids Pipelines
Last Update 31-Dec-2015
Initial Release 12-Feb-2014
Construction Labor Preference Unconfirmed
Operations Labor Preference Non-Union



Plant Owner Enterprise Products Partners LP
Plant Name Breaux Bridge NGL Pump Station
Plant ID 3114829
Location Sawmill Highway
City/State Breaux Bridge, Louisiana 70582 U.S.A.
Plant Parent Enterprise Products Partners LP
Unit Name Breaux Bridge 01 EM, 02 EM Spare
Phone +1 713 381 6500
Zone/County LA*01, Saint Martin

Project Responsibility Project Company

Project Executive Enterprise Products Partners LP
 1100 Louisiana Street, Suite 1000
 Houston, Texas 77002
 U.S.A.

Project Contact

Kevin Ramsey
 Project Director
 [Tel.] +1 713 381 6500
 [E-Mail] keramsey@eprod.com ; [LinkedIn] kevin-ramsey-61491013

Project Director Enterprise Products Partners LP
 1100 Louisiana Street, Suite 1000
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 Houston, Texas 77002
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Eng NorthStar Energy Services
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G/C Holloman Corporation
 333 North Sam Houston Parkway East Suite 600
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 U.S.A.

Shannon Driver
 Project Manager
 [Tel.] +1 281 878 2600

PEC® Timing C1

PEC® Activity Completion/Start-Up

Project Probability Completed (100%)

Scope Enterprise Products awards Atkins Global (Environmental Consultant), Northstar Energy Services (Detailed Engineering), and Holloman Corporation (G/C) and continues Construction on a Grassroot NGL Pump Station. DETAILS: As part of the Aegis Pipeline Project, construct buildings and install (1) 1,750 hp mainline and (1) 900 hp spare Westinghouse electric motor-driven pump packages to support the planned Aegis Pipeline Phases I & II Projects (Project ID's: 300153181, 300153189). REQUIRES: Foundations, Buildings, Electric-Motor Pump Packages (PURCHASED), Gear Boxes, Headers, Station Piping, Manifolds, Control Valves, Pipeyard, Pipeline Interconnections, Coatings, Switchgear, Transformers, Electrical Utilities plus Controls. ENVIRONMENTAL: (A) Flare, Leak Detection; (L) Containment, Liners.

Schedule Enterprise Products with Atkins Global (Environmental Consultant) and Holloman Corporation (G/C) continues Construction through 3Q15 (Jul). Holloman will release remaining Subcontractor Bid Documents through 2Q15 (Apr). Construction Commenced 1Q15 (Mar). Expected Project Completion 4Q15 (Dec).

Project Milestones

AFE 201502 **Sub Bid Doc** 201504 **Completion** 30-Dec-2015 **Precision** MONTH
Equip RFQ 201504 **Kick-Off** 201503 **Kickoff Slippage** 5 Months **Duration** 10 Months

Engineering

Contracting Electrical Environmental Instrumentation

Project Key Needs Civil/Site Structural Architectural Control Room

Instrumentation Electrical Mechanical Storage NDE

Piping/Fittings Insulation/Coatings Environmental Utilities Valves Pumps

Communications Transportation

Matter Phase

Liquid

Energy

Buy Electricity
Sell

Plant Standard Contacts

Functional/Actual Title	Contact Name/E-mail	Telephone/On-site	QC Date/LinkedIn ID
Plant Manager	Jonathan Bodin	[Phn.] +1 337 332 8600	Nov-2022
	jbodin@eprod.com	No	jonathan-bodin-meng-pmp-40296043
Maintenance Manager	Jonathan Bodin	[Phn.] +1 337 332 8600	Nov-2022
	jbodin@eprod.com	No	jonathan-bodin-meng-pmp-40296043
Purchasing Manager	Jonathan Bodin	[Phn.] +1 337 332 8600	Nov-2022
	jbodin@eprod.com	No	jonathan-bodin-meng-pmp-40296043
Engineering Manager	Jonathan Bodin	[Phn.] +1 337 332 8600	Nov-2022
	jbodin@eprod.com	No	jonathan-bodin-meng-pmp-40296043
Environmental Manager	Damien Watt	[Phn.] +1 713 381 6500 / [Alt.] +1 832 776 2172	Nov-2022
	dtwatt@eprod.com	No	damienwatt
Safety Manager	Damien Watt	[Phn.] +1 713 381 4747 / [Alt.] +1 832 776 2172	Nov-2022
Environmental Manager	dtwatt@eprod.com	No	damienwatt
Utilities Manager	Jonathan Bodin	[Phn.] +1 337 332 4123	Nov-2022
	jbodin@eprod.com	No	jonathan-bodin-meng-pmp-40296043
Human Resource Manager	Esmeralda Galvan	[Phn.] +1 713 381 6500	Nov-2022
Director Human Resource	egalvan@eprod.com	No	esmeralda-galvan-a7b92a4

Historical Reports

Project Name	Report Date	TIV	Phase
SECTION 28 GRASSROOT AEGIS NGL PUMP STATION	12-Feb-2014	30,000,000 USD	Permitting (P2 - 18)
SECTION 28 GRASSROOT AEGIS NGL PUMP STATION	24-Apr-2014	30,000,000 USD	Permitting (P2 - 18)
SECTION 28 GRASSROOT AEGIS NGL PUMP STATION	25-Jun-2014	30,000,000 USD	Permitting (P2 - 18)
SECTION 28 GRASSROOT AEGIS NGL PUMP STATION	14-Aug-2014	30,000,000 USD	Permitting (P2 - 18)
BREAUX BRIDGE GRASSROOT AEGIS NGL PUMP STATION	26-Sep-2014	30,000,000 USD	Permitting (P2 - 18)
BREAUX BRIDGE GRASSROOT AEGIS NGL PUMP STATION	09-Jan-2015	30,000,000 USD	Permitting (P2 - 18)
BREAUX BRIDGE GRASSROOT AEGIS NGL PUMP STATION	24-Feb-2015	30,000,000 USD	Permitting (P2 - 18)
BREAUX BRIDGE GRASSROOT AEGIS PROMIX NGL PUMP STATION	30-Mar-2015	30,000,000 USD	Construction - Merit Shop (C1 - 36)
BREAUX BRIDGE GRASSROOT AEGIS PROMIX NGL PUMP STATION	31-Jul-2015	30,000,000 USD	Construction - Merit Shop (C1 - 36)
BREAUX BRIDGE GRASSROOT AEGIS PROMIX NGL PUMP STATION	13-Oct-2015	30,000,000 USD	Construction - Merit Shop (C1 - 36)
BREAUX BRIDGE GRASSROOT AEGIS PROMIX NGL PUMP STATION	31-Dec-2015	30,000,000 USD	Completion/Start-Up (C1 - 41)