

PIONEER

NATURAL RESOURCES

UNIVERSITY E2-34B 102H

FRAC FLEET / CREW #

Contractor

Rig #

PPS4

Job:

Report Date:

Report #:

AFE #:

Total AFE + Sup:

Cum Field Estimate:

Daily Field Estimate:

OCMS

11/17/2020

22

9007328

\$3,203,179.10

\$2,803,584.34

\$169,875.58

SSN

API/UWI

Property Sub

Field Name

Open Formation

Spud Date

TD (max) (ftKB)

ID00023161

42-383-40731-0000

SPRABERRY (TREND AREA)

WOLFCAMP B3 (WFMP B3)

11/11/2019

18,538.0

Job Category

Primary Job Type

Start Date

End Date

Job Status

Responsible Grp 2

ORIG COMPLETION

OCMS

10/23/2020

IN PROGRESS

STIM ENG - NATHAN DEALY

Job Dates

Date

Type

Subtype

Note

10/21/2020

MILESTONE

INITIAL WOPR

10/29/2020

MILESTONE

FINAL WOPR

11/3/2020

MILESTONE

READY TO START (RTS)

11/20/2020

PLAN

STIMULATION END

Safety Checks

Time

Type

Des

Tour

Com

Daily Contacts on Location

Contact Name

Title

Tour

Mobile

Alt Mobile #

Note

DEALY, NATHAN

ENGINEER

432-215-2340

ROUSE, WALTER

SUPERINTENDE NT

361-318-9076

DUCOTE, CHAD

SUPERINTENDE NT

DAY

817-964-4112

THOMAS, JAMIE

COMPLETION ENGINEER

DAY

432-556-3458

WOHLEB, CLEMENT JR

FOREMAN

NIGHT

254-495-1156

BURTS, AJ

ENGINEER

NIGHT

432-270-5820

Personnel Log

Company

Count

CACTUS WELLHEAD LLC

2

LOUISIANA CRANE & CONSTRUCTION LLC

2

PROPETRO SERVICES INC

25

PERFX WIRELINE SERVICES LLC

10

MANTICORE FUELS LLC

4

PIONEER NATURAL RESOURCES USA INC

4

PURESTREAM SERVICES INC

2

DOWNHOLE CHEMICAL SOLUTIONS LLC

2

UNITED SHUTDOWN SAFETY TEXAS INC

2

Daily Operations

Operations at Report Time

Daily Goal Description

Daily Goal - Last 24

STIM OPS

STAGES PER DAY

4.0

Operations Summary

FRAC STGS: 55,56,57,58

P/P STGS: 56,57,58,59

UTF: N/A

Operations Next Report Period

STIM OPS

Remarks

NO ACCIDENTS OR INCIDENTS

Time Log

Start Time

End Time

Dur (hr)

Phase

Activity

Operation

Com

Ops Category

Prob Ref #

Prob Hrs (hr)

Frac Stage

06:00

07:26

1.44

STIM, OPS

NONOPS

PAD

WAIT ON OFFSET WELLS

NORMAL

07:26

07:36

0.17

STIM, OPS

SWAPOVER

SWAP\_FRAC

SWAP TO FRAC

NORMAL

55

07:36

09:25

1.82

STIM, OPS

FRAC

STIM

FRAC STG 55

NORMAL

55

09:25

09:35

0.16

STIM, OPS

SWAPOVER

SWAP\_WL

SWAP TO WL

NORMAL

09:35

10:08

0.55

STIM, OPS

WIRELINE

WL\_RUNDN

RIH - P/P STG 56

NORMAL

10:08

10:27

0.32

STIM, OPS

WIRELINE

WL\_RUNUP

POOH - PLUG SET / ASF

NORMAL

10:27

12:56

2.48

STIM, OPS

NONOPS

PAD

WAIT ON OFFSET WELLS

NORMAL

12:56

13:10

0.24

STIM, OPS

SWAPOVER

SWAP\_FRAC

SWAP TO FRAC

NORMAL

56

13:10

15:01

1.85

STIM, OPS

FRAC

STIM

FRAC STG 56

NORMAL

56

15:01

15:09

0.12

STIM, OPS

SWAPOVER

SWAP\_WL

SWAP TO WL

NORMAL

15:09

15:52

0.72

STIM, OPS

WIRELINE

WL\_RUNDN

RIH - P/P STG 57

NORMAL

15:52

16:10

0.3

STIM, OPS

WIRELINE

WL\_RUNUP

POOH - PLUG SET / ASF

NORMAL

16:10

18:35

2.42

STIM, OPS

NONOPS

PAD

WAIT ON OFFSET WELLS

NORMAL

18:35

18:46

0.18

STIM, OPS

SWAPOVER

SWAP\_FRAC

SWAP TO FRAC

NORMAL

57

18:46

20:37

1.85

STIM, OPS

FRAC

STIM

FRAC STG 57

NORMAL

57

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OCMS

11/17/2020

22

9007328

\$3,203,179.10

\$2,803,584.34

\$169,875.58

Time Log

Start Time	End Time	Dur (hr)	Phase	Activity	Operation	Com	Ops Category	Prob Ref #	Prob Hrs (hr)	Frac Stage
20:37	20:46	0.15	STIM, OPS	SWAPOVER	SWAP_WL	SWAP TO WL	NORMAL			
20:46	21:16	0.5	STIM, OPS	WIRELINE	WL_RUNDN	RIH - P/P STG 58	NORMAL			
21:16	21:40	0.4	STIM, OPS	WIRELINE	WL_RUNUP	POOH - PLUG SET / ASF	NORMAL			
21:40	00:18	2.64	STIM, OPS	NONOPS	PAD	WAIT ON OFFSET WELLS	NORMAL			
00:18	00:30	0.19	STIM, OPS	SWAPOVER	SWAP_FRAC	SWAP TO FRAC	NORMAL			58
00:30	02:22	1.87	STIM, OPS	FRAC	STIM	FRAC STG 58	NORMAL			58
02:22	02:29	0.12	STIM, OPS	SWAPOVER	SWAP_WL	SWAP TO WL	NORMAL			
02:29	02:57	0.46	STIM, OPS	WIRELINE	WL_RUNDN	RIH - P/P STG 59	NORMAL			
02:57	03:20	0.39	STIM, OPS	WIRELINE	WL_RUNUP	POOH - PLUG SET / ASF	NORMAL			
03:20	05:48	2.47	STIM, OPS	NONOPS	PAD	WAIT ON OFFSET WELLS	NORMAL			
05:48	06:00	0.19	STIM, OPS	SWAPOVER	SWAP_FRAC	SWAP TO FRAC @ RT.	NORMAL			59

Fluid Summary

Fluid	Cum to Well (bbl)	To well (bbl)	Cum from Well (bbl)	From well (bbl)	Left to recover (bbl)
DISPOSED			224.0	77.0	-224.0
WELL FLUID	612,794.0	41,083.0			612,794.0

Interval Problems

<Problem Type?>, <Problem Subtype?>, <Problem Description?>, <Start Date?>

Ref #	End Date	Dur (Net) (hr)	Excl...	Accountable Party	Est Cost OR (C...	Comment
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Rigs

Contractor	Rig #	Start Date	RR Date	Rig Type
DYNASTY WIRE LINE	PRESTIM	10/26/2020 06:00	10/30/2020 10:00	WIRELINE
PPS	PRESTIM	10/26/2020 06:00	10/30/2020 10:00	PUMPDOWN
PPS	4	11/1/2020 06:00		FRAC FLEET
PERFX	STIM	11/1/2020 23:00		WIRELINE
PPS	STIM	11/2/2020 06:00		PUMPDOWN

DIESEL, SURFACE RENTALS

Total Received	Total Consumed	Total Returned
1,602.0	1,602.0	0.0

DIESEL, FRAC EQUIPMENT

Total Received	Total Consumed	Total Returned
114,154.0	114,154.0	0.0

Job Supply Amounts

Date	Supply Item Des	Type	Received	Consumed	Returned	Cum Received	Cum Consumed	Cum Returned
11/16/2020 07:00	DIESEL	FRAC EQUIPMENT				114,154.0	114,154.0	0.0

Perforations

Int #	Prop?	Type	Top (ftKB)	Btm (ftKB)	Btm - Top (ft)	Shot Dens (shots/ft)	Entered Shot Total	String Perforated	Com	Cluster #
59	No	CONVENTIONAL PERF	9,654.0	9,655.0	1.0	3.0	6	PRODUCTION, 18,523.0ftKB		5
59	No	CONVENTIONAL PERF	9,684.0	9,685.0	1.0	3.0	6	PRODUCTION, 18,523.0ftKB		4
59	No	CONVENTIONAL PERF	9,714.0	9,715.0	1.0	3.0	8	PRODUCTION, 18,523.0ftKB		3
59	No	CONVENTIONAL PERF	9,744.0	9,745.0	1.0	3.0	10	PRODUCTION, 18,523.0ftKB		2
59	No	CONVENTIONAL PERF	9,774.0	9,775.0	1.0	3.0	10	PRODUCTION, 18,523.0ftKB		1
58	No	CONVENTIONAL PERF	9,804.0	9,805.0	1.0	3.0	6	PRODUCTION, 18,523.0ftKB		5
58	No	CONVENTIONAL PERF	9,834.0	9,835.0	1.0	3.0	6	PRODUCTION, 18,523.0ftKB		4
58	No	CONVENTIONAL PERF	9,864.0	9,865.0	1.0	3.0	8	PRODUCTION, 18,523.0ftKB		3
58	No	CONVENTIONAL PERF	9,894.0	9,895.0	1.0	3.0	10	PRODUCTION, 18,523.0ftKB		2
58	No	CONVENTIONAL PERF	9,924.0	9,925.0	1.0	3.0	10	PRODUCTION, 18,523.0ftKB		1
57	No	CONVENTIONAL PERF	9,954.0	9,955.0	1.0	3.0	6	PRODUCTION, 18,523.0ftKB		5
57	No	CONVENTIONAL PERF	9,984.0	9,985.0	1.0	3.0	6	PRODUCTION, 18,523.0ftKB		4
57	No	CONVENTIONAL PERF	10,014.0	10,015.0	1.0	3.0	8	PRODUCTION, 18,523.0ftKB		3
57	No	CONVENTIONAL PERF	10,044.0	10,045.0	1.0	3.0	10	PRODUCTION, 18,523.0ftKB		2

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Perforations

Int #	Prop?	Type	Top (ftKB)	Btm (ftKB)	Btm - Top (ft)	Shot Dens (shots/ft)	Entered Shot Total	String Perforated	Com	Cluster #
57	No	CONVENTIONAL PERF	10,074.0	10,075.0	1.0	3.0	10	PRODUCTION, 18,523.0ftKB		1
56	No	CONVENTIONAL PERF	10,104.0	10,105.0	1.0	3.0	6	PRODUCTION, 18,523.0ftKB		5
56	No	CONVENTIONAL PERF	10,134.0	10,135.0	1.0	3.0	6	PRODUCTION, 18,523.0ftKB		4
56	No	CONVENTIONAL PERF	10,164.0	10,165.0	1.0	3.0	8	PRODUCTION, 18,523.0ftKB		3
56	No	CONVENTIONAL PERF	10,194.0	10,195.0	1.0	3.0	10	PRODUCTION, 18,523.0ftKB		2
56	No	CONVENTIONAL PERF	10,224.0	10,225.0	1.0	3.0	10	PRODUCTION, 18,523.0ftKB		1

Stimulations Summary

Stim/Treat Company PROPETRO		Diversion Company CACTUS WELLHEAD LLC		Diversion Method COMPOSITE PLUG		Start Date 11/3/2020 06:34		End Date		Job OCMS, 10/23/2020 06:00	
Number of Treatment Intervals 58		Design Number of Treatment Intervals 64		Volume Clean Total (bbl) 611,762.96				Proppant Total (lb) 21,791,515.0			

Stimulation Intervals

Frac Stage 55 on 11/16/2020 07:36

Proposed? No	Type HYDRAULIC FRACTURE	Date 11/16/2020		String (Deployment Method) PRODUCTION, 18,523.0ftKB			Top Depth (ftKB) 10,254.0		Bottom Depth (ftKB) 10,375.0			
Post Job Frac Gradient (...)		Pump Power Max (hp) 0.95		Proppant Designed (lb) 375,495.0		Proppant In Formation (lb) 375,495.0		Proppant In Wellbore (lb) 375,495.0		Clean Volume Design (bbl) 10,333.00	Total Clean Volume (bbl) 10,333.00	
Open Wellhead (psi) 3,090.0		Final ISIP (psi) 4,521.0		Close Wellhead (psi) 3,715.0		Breakdown Pressure (psi) 6,033.0		Max Treating Pressure (...) 9,170.0		Avg Treating Pressure (...) 8,734.0	Max Slurry Rate (bbl/min) 106	Avg Slurry Rate (bbl/min) 104
Comment Stage#55 PTD												

Pumping Summary

Stage Type	Start Date	End Date	Total Clean Volume (bbl)	Cum Total Clean Vol (bbl)	Link to Proppant	Surf Proppant Conc End (lb/gal)	Proppant Mass (lb)	Cum Proppant Mass (lb)
PAD	11/16/2020 07:36	11/16/2020 07:43	193.00	193.00				
SLURRY	11/16/2020 07:43	11/16/2020 07:53	1,098.00	1,291.00	BROWN, 100 MESH		11,529.0	11,529.0
SLURRY	11/16/2020 07:53	11/16/2020 08:06	1,308.00	2,599.00	BROWN, 100 MESH		13,734.0	25,263.0
SLURRY	11/16/2020 08:06	11/16/2020 08:18	1,262.00	3,861.00	BROWN, 100 MESH		26,502.0	51,765.0
SLURRY	11/16/2020 08:18	11/16/2020 08:31	1,265.00	5,126.00	BROWN, 100 MESH		39,847.0	91,612.0
SLURRY	11/16/2020 08:31	11/16/2020 08:44	1,263.00	6,389.00	BROWN, 100 MESH		53,046.0	144,658.0
SLURRY	11/16/2020 08:44	11/16/2020 08:57	1,261.00	7,650.00	BROWN, 100 MESH		79,443.0	224,101.0
SLURRY	11/16/2020 08:57	11/16/2020 09:09	1,101.00	8,751.00	BROWN, 100 MESH		76,040.0	300,141.0
SLURRY	11/16/2020 09:09	11/16/2020 09:16	668.00	9,419.00	BROWN, 40/70		49,098.0	349,239.0
SLURRY	11/16/2020 09:16	11/16/2020 09:20	445.00	9,864.00	BROWN, 40/70		26,256.0	375,495.0
FLUSH	11/16/2020 09:20	11/16/2020 09:25	307.00	10,171.00				375,495.0
PUMP DOWN	11/16/2020 09:35	11/16/2020 10:08	162.00	10,333.00				375,495.0

Proppants

Type	Des	Sand Size
BROWN	100 MESH BROWN	100 MESH
BROWN	40/70 BROWN	40/70

Frac Stage 56 on 11/16/2020 13:10

Proposed? No	Type HYDRAULIC FRACTURE	Date 11/16/2020		String (Deployment Method) PRODUCTION, 18,523.0ftKB			Top Depth (ftKB) 10,104.0		Bottom Depth (ftKB) 10,225.0			
Post Job Frac Gradient (...)		Pump Power Max (hp) 0.92		Proppant Designed (lb) 374,611.0		Proppant In Formation (lb) 374,611.0		Proppant In Wellbore (lb) 374,611.0		Clean Volume Design (bbl) 10,323.00	Total Clean Volume (bbl) 10,323.00	
Open Wellhead (psi) 3,080.0		Final ISIP (psi) 4,284.0		Close Wellhead (psi) 3,675.0		Breakdown Pressure (psi) 4,899.0		Max Treating Pressure (...) 9,255.0		Avg Treating Pressure (...) 8,865.0	Max Slurry Rate (bbl/min) 102	Avg Slurry Rate (bbl/min) 99
Comment Stage 56 -- PTD												

Pumping Summary

Stage Type	Start Date	End Date	Total Clean Volume (bbl)	Cum Total Clean Vol (bbl)	Link to Proppant	Surf Proppant Conc End (lb/gal)	Proppant Mass (lb)	Cum Proppant Mass (lb)
PAD	11/16/2020 13:10	11/16/2020 13:17	135.00	135.00				
SLURRY	11/16/2020 13:17	11/16/2020 13:27	1,158.00	1,293.00	BROWN, 100 MESH		12,159.0	12,159.0
SLURRY	11/16/2020 13:27	11/16/2020 13:40	1,308.00	2,601.00	BROWN, 100 MESH		13,734.0	25,893.0
SLURRY	11/16/2020 13:40	11/16/2020 13:53	1,260.00	3,861.00	BROWN, 100 MESH		26,460.0	52,353.0
SLURRY	11/16/2020 13:53	11/16/2020 14:06	1,262.00	5,123.00	BROWN, 100 MESH		39,753.0	92,106.0
SLURRY	11/16/2020 14:06	11/16/2020 14:19	1,261.00	6,384.00	BROWN, 100 MESH		52,962.0	145,068.0
SLURRY	11/16/2020 14:19	11/16/2020 14:33	1,263.00	7,647.00	BROWN, 100 MESH		79,569.0	224,637.0
SLURRY	11/16/2020 14:33	11/16/2020 14:45	1,137.00	8,784.00	BROWN, 100 MESH		75,877.0	300,514.0
SLURRY	11/16/2020 14:45	11/16/2020 14:53	668.00	9,452.00	BROWN, 40/70		49,098.0	349,612.0
SLURRY	11/16/2020 14:53	11/16/2020 14:57	400.00	9,852.00	BROWN, 40/70		24,999.0	374,611.0
FLUSH	11/16/2020 14:57	11/16/2020 15:01	305.00	10,157.00				374,611.0
PUMP DOWN	11/16/2020 15:47	11/16/2020 15:52	166.00	10,323.00				374,611.0

Proppants

Type	Des	Sand Size
BROWN	40/70 BROWN	40/70
BROWN	100 MESH BROWN	100 MESH

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OCMS  
11/17/2020  
22  
9007328  
\$3,203,179.10  
\$2,803,584.34  
\$169,875.58

Stimulation Intervals

Frac Stage 57 on 11/16/2020 18:46

Proposed? No	Type HYDRAULIC FRACTURE	Date 11/16/2020		String (Deployment Method) PRODUCTION, 18,523.0ftKB			Top Depth (ftKB) 9,954.0	Bottom Depth (ftKB) 10,075.0	
Post Job Frac Gradient (...) 0.87		Pump Power Max (hp)		Proppant Designed (lb)	Proppant In Formation (lb)	Proppant In Wellbore (lb)	Proppant Total (lb)	Clean Volume Design (bbl)	Total Clean Volume (bbl)
				374,974.0			374,974.0		10,165.00
Open Wellhead (psi) 3,054.0		Final ISIP (psi) 3,767.0		Close Wellhead (psi) 3,545.0	Breakdown Pressure (psi) 5,666.0	Max Treating Pressure (...) 9,203.0	Avg Treating Pressure (...) 8,839.0	Max Slurry Rate (bbl/min) 106	Avg Slurry Rate (bbl/min) 99
Comment Stage#57 PTD									

Pumping Summary

Stage Type	Start Date	End Date	Total Clean Volume (bbl)	Cum Total Clean Vol (bbl)	Link to Proppant	Surf Proppant Conc End (lb/gal)	Proppant Mass (lb)	Cum Proppant Mass (lb)
PAD	11/16/2020 18:46	11/16/2020 18:51	227.00	227.00				
SLURRY	11/16/2020 18:51	11/16/2020 19:03	1,068.00	1,295.00	BROWN, 100 MESH		11,214.0	11,214.0
SLURRY	11/16/2020 19:03	11/16/2020 19:16	1,309.00	2,604.00	BROWN, 100 MESH		13,744.5	24,958.5
SLURRY	11/16/2020 19:16	11/16/2020 19:29	1,262.00	3,866.00	BROWN, 100 MESH		26,502.0	51,460.5
SLURRY	11/16/2020 19:29	11/16/2020 19:43	1,267.00	5,133.00	BROWN, 100 MESH		39,910.5	91,371.0
SLURRY	11/16/2020 19:43	11/16/2020 19:56	1,262.00	6,395.00	BROWN, 100 MESH		53,004.0	144,375.0
SLURRY	11/16/2020 19:56	11/16/2020 20:10	1,265.00	7,660.00	BROWN, 100 MESH		79,695.0	224,070.0
SLURRY	11/16/2020 20:10	11/16/2020 20:23	1,088.00	8,748.00	BROWN, 100 MESH		75,566.0	299,636.0
SLURRY	11/16/2020 20:23	11/16/2020 20:30	668.00	9,416.00	BROWN, 40/70		49,098.0	348,734.0
SLURRY	11/16/2020 20:30	11/16/2020 20:33	296.00	9,712.00	BROWN, 40/70		26,240.0	374,974.0
FLUSH	11/16/2020 20:33	11/16/2020 20:37	299.00	10,011.00				374,974.0
PUMP DOWN	11/16/2020 21:12	11/16/2020 21:16	154.00	10,165.00				374,974.0

Proppants

Type		Des	Sand Size
BROWN		40/70 BROWN	40/70
BROWN		100 MESH BROWN	100 MESH

Frac Stage 58 on 11/17/2020 00:30

Proposed? No	Type HYDRAULIC FRACTURE	Date 11/17/2020	String (Deployment Method) PRODUCTION, 18,523.0ftKB				Top Depth (ftKB) 9,804.0	Bottom Depth (ftKB) 9,925.0
Post Job Frac Gradient (...) 0.90		Pump Power Max (hp) 3,103.0	Proppant Designed (lb) 3,859.0	Proppant In Formation (lb) 374,996.0	Proppant In Wellbore (lb) 374,996.0	Proppant Total (lb) 374,996.0	Clean Volume Design (bbl) 105	Total Clean Volume (bbl) 10,262.00
Open Wellhead (psi) 3,103.0		Final ISIP (psi) 4,034.0	Close Wellhead (psi) 3,859.0	Breakdown Pressure (psi) 6,141.0	Max Treating Pressure (...) 9,185.0	Avg Treating Pressure (...) 8,788.0	Max Slurry Rate (bbl/min) 99	Avg Slurry Rate (bbl/min) 99
Comment Stage# 58 PTD								

Pumping Summary

Stage Type	Start Date	End Date	Total Clean Volume (bbl)	Cum Total Clean Vol (bbl)	Link to Proppant	Surf Proppant Conc End (lb/gal)	Proppant Mass (lb)	Cum Proppant Mass (lb)
PAD	11/17/2020 00:30	11/17/2020 00:36	290.00	290.00				
SLURRY	11/17/2020 00:36	11/17/2020 00:48	1,010.00	1,300.00	BROWN, 100 MESH		10,605.5	10,605.5
SLURRY	11/17/2020 00:48	11/17/2020 01:00	1,308.00	2,608.00	BROWN, 100 MESH		13,734.0	24,339.5
SLURRY	11/17/2020 01:00	11/17/2020 01:12	1,264.00	3,872.00	BROWN, 100 MESH		26,544.0	50,883.5
SLURRY	11/17/2020 01:12	11/17/2020 01:26	1,261.00	5,133.00	BROWN, 100 MESH		39,721.5	90,605.0
SLURRY	11/17/2020 01:26	11/17/2020 01:39	1,265.00	6,398.00	BROWN, 100 MESH		53,130.0	143,735.0
SLURRY	11/17/2020 01:39	11/17/2020 01:53	1,262.00	7,660.00	BROWN, 100 MESH		79,506.0	223,241.0
SLURRY	11/17/2020 01:53	11/17/2020 02:05	1,103.00	8,763.00	BROWN, 100 MESH		76,867.0	300,108.0
SLURRY	11/17/2020 02:05	11/17/2020 02:13	665.00	9,428.00	BROWN, 40/70		48,877.5	348,985.5
SLURRY	11/17/2020 02:13	11/17/2020 02:17	391.00	9,819.00	BROWN, 40/70		26,010.5	374,996.0
FLUSH	11/17/2020 02:17	11/17/2020 02:22	295.00	10,114.00				374,996.0
PUMP DOWN	11/17/2020 02:54	11/17/2020 02:57	148.00	10,262.00				374,996.0

Proppants

Type		Des	Sand Size
BROWN		40/70 BROWN	40/70
BROWN		100 MESH BROWN	100 MESH

Other In Hole

Prop Run?	Prop Pull?	Des	Run Date	OD (in)	Top (ftKB)	Btm (ftKB)	Pull Date	Plug Drill Out Duration (min)	Com
No	Yes	FRAC PLUG	11/16/2020 10:08	4.37	10,238.0	10,240.0			STG 56
No	Yes	FRAC PLUG	11/16/2020 15:52	4.37	10,088.0	10,090.0			STG 57
No	Yes	FRAC PLUG	11/16/2020 21:16	4.37	9,938.0	9,940.0			STG 58
No	Yes	FRAC PLUG	11/17/2020 02:58	4.37	9,788.0	9,790.0			STG 59

PIONEER

NATURAL RESOURCES

UNIVERSITY E2-34B 102H

FRAC FLEET / CREW #

Contractor

Rig #

PPS

Job:

Report Date:

Report #:

AFE #:

Total AFE + Sup:

Cum Field Estimate:

Daily Field Estimate:

OCMS

11/18/2020

23

9007328

\$3,203,179.10

\$3,036,426.92

\$219,920.47

SSN

API/UWI

Property Sub

Field Name

Open Formation

Spud Date

TD (max) (ftKB)

ID00023161

42-383-40731-0000

SPRABERRY (TREND AREA)

WOLFCAMP B3 (WFMP B3)

11/11/2019

18,538.0

Job Category

Primary Job Type

Start Date

End Date

Job Status

Responsible Grp 2

ORIG COMPLETION

OCMS

10/23/2020

IN PROGRESS

STIM ENG - NATHAN DEALY

Job Dates

Date

Type

Subtype

Note

10/21/2020

MILESTONE

INITIAL WOPR

10/29/2020

MILESTONE

FINAL WOPR

11/3/2020

MILESTONE

READY TO START (RTS)

11/20/2020

PLAN

STIMULATION END

Safety Checks

Time

Type

Des

Tour

Com

Daily Contacts on Location

Contact Name

Title

Tour

Mobile

Alt Mobile #

Note

DEALY, NATHAN

ENGINEER

432-215-2340

ROUSE, WALTER

SUPERINTENDE NT

361-318-9076

DUCOTE, CHAD

SUPERINTENDE NT

DAY

817-964-4112

THOMAS, JAMIE

COMPLETION ENGINEER

DAY

432-556-3458

WOHLEB, CLEMENT JR

FOREMAN

NIGHT

254-495-1156

BURTS, AJ

ENGINEER

NIGHT

432-270-5820

Personnel Log

Company

Count

CACTUS WELLHEAD LLC

2

LOUISIANA CRANE & CONSTRUCTION LLC

2

PROPETRO SERVICES INC

25

PERFX WIRELINE SERVICES LLC

10

MANTICORE FUELS LLC

4

PIONEER NATURAL RESOURCES USA INC

4

PURESTREAM SERVICES INC

2

DOWNHOLE CHEMICAL SOLUTIONS LLC

2

UNITED SHUTDOWN SAFETY TEXAS INC

2

Daily Operations

Operations at Report Time

Daily Goal Description

Daily Goal - Last 24

STIM OPS

STAGES PER DAY

4.0

Operations Summary

FRAC STGS: 59,60,61,62,63

P/P STGS: 60,61,62,63,64

UTF: N/A

Operations Next Report Period

STIM OPS

Remarks

NO ACCIDENTS OR INCIDENTS

Time Log

Start Time

End Time

Dur (hr)

Phase

Activity

Operation

Com

Ops Category

Prob Ref #

Prob Hrs (hr)

Frac Stage

06:00

07:46

1.77

STIM, OPS

FRAC

STIM

FRAC STG 59

NORMAL

59

07:46

07:53

0.12

STIM, OPS

SWAPOVER

SWAP\_WL

SWAP TO WL

NORMAL

07:53

08:27

0.56

STIM, OPS

WIRELINE

WL\_RUNDN

RIH - P/P STG 60

NORMAL

08:27

08:45

0.3

STIM, OPS

WIRELINE

WL\_RUNUP

POOH - PLUG SET / ASF

NORMAL

08:45

11:07

2.37

STIM, OPS

NONOPS

PAD

WAIT ON OFFSET WELLS

NORMAL

11:07

11:22

0.25

STIM, OPS

SWAPOVER

SWAP\_FRAC

SWAP TO FRAC

NORMAL

60

11:22

13:10

1.8

STIM, OPS

FRAC

STIM

FRAC STG 60

NORMAL

60

13:10

13:20

0.17

STIM, OPS

SWAPOVER

SWAP\_WL

SWAP TO WL

NORMAL

13:20

13:48

0.46

STIM, OPS

WIRELINE

WL\_RUNDN

RIH - P/P STG 61

NORMAL

13:48

14:07

0.32

STIM, OPS

WIRELINE

WL\_RUNUP

POOH - PLUG SET / ASF

NORMAL

14:07

16:33

2.43

STIM, OPS

NONOPS

PAD

WAIT ON OFFSET WELLS

NORMAL

16:33

16:38

0.09

STIM, OPS

SWAPOVER

SWAP\_FRAC

SWAP TO FRAC

NORMAL

61

16:38

18:25

1.78

STIM, OPS

FRAC

STIM

FRAC STG 61

NORMAL

61

18:25

18:33

0.13

STIM, OPS

SWAPOVER

SWAP\_WL

SWAP TO WL

NORMAL

18:33

19:04

0.52

STIM, OPS

WIRELINE

WL\_RUNDN

RIH - P/P STG 62

NORMAL

PIONEER

NATURAL RESOURCES

UNIVERSITY E2-34B 102H

Job:  
Report Date:  
Report #:  
AFE #:  
Total AFE + Sup:  
Cum Field Estimate:  
Daily Field Estimate:

OCMS  
11/18/2020  
23  
9007328  
\$3,203,179.10  
\$3,036,426.92  
\$219,920.47

Time Log

Start Time	End Time	Dur (hr)	Phase	Activity	Operation	Com	Ops Category	Prob Ref #	Prob Hrs (hr)	Frac Stage
19:04	19:25	0.36	STIM, OPS	WIRELINE	WL_RUNUP	POOH - PLUG SET / ASF	NORMAL			
19:25	21:53	2.46	STIM, OPS	NONOPS	PAD	WAIT ON OFFSET WELLS	NORMAL			
21:53	22:00	0.11	STIM, OPS	SWAPOVER	SWAP_FRAC	SWAP TO FRAC	NORMAL			62
22:00	23:51	1.85	STIM, OPS	FRAC	STIM	FRAC STG 62	NORMAL			62
23:51	00:00	0.15	STIM, OPS	SWAPOVER	SWAP_WL	SWAP TO WL	NORMAL			
00:00	00:25	0.42	STIM, OPS	WIRELINE	WL_RUNDN	RIH - P/P STG 63	NORMAL			
00:25	00:49	0.4	STIM, OPS	WIRELINE	WL_RUNUP	POOH - PLUG SET / ASF	NORMAL			
00:49	03:20	2.52	STIM, OPS	NONOPS	PAD	WAIT ON OFFSET WELLS	NORMAL			
03:20	03:31	0.19	STIM, OPS	SWAPOVER	SWAP_FRAC	SWAP TO FRAC	NORMAL			63
03:31	05:23	1.86	STIM, OPS	FRAC	STIM	FRAC STG 63	NORMAL			63
05:23	05:34	0.19	STIM, OPS	SWAPOVER	SWAP_WL	SWAP TO WL	NORMAL			
05:34	06:00	0.42	STIM, OPS	WIRELINE	WL_RUNDN	RIH - P/P STG 64	NORMAL			

Fluid Summary

Fluid	Cum to Well (bbl)	To well (bbl)	Cum from Well (bbl)	From well (bbl)	Left to recover (bbl)
DISPOSED			224.0		-224.0
WELL FLUID	663,896.0	51,102.0			663,896.0

Interval Problems

<Problem Type?>, <Problem Subtype?>, <Problem Description?>, <Start Date?>

Ref #	End Date	Dur (Net) (hr)	Excl...	Accountable Party	Est Cost OR (C...	Comment
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Rigs

Contractor	Rig #	Start Date	RR Date	Rig Type
DYNASTY WIRE LINE	PRESTIM	10/26/2020 06:00	10/30/2020 10:00	WIRELINE
PPS	PRESTIM	10/26/2020 06:00	10/30/2020 10:00	PUMPDOWN
PPS	4	11/1/2020 06:00		FRAC FLEET
PERFX	STIM	11/1/2020 23:00		WIRELINE
PPS	STIM	11/2/2020 06:00		PUMPDOWN

DIESEL, SURFACE RENTALS

Total Received	Total Consumed	Total Returned
1,828.0	1,828.0	0.0

Job Supply Amounts

Date	Supply Item Des	Type	Received	Consumed	Returned	Cum Received	Cum Consumed	Cum Returned
11/17/2020 16:15	DIESEL	SURFACE RENTALS	226	226		1,828.0	1,828.0	0.0

DIESEL, FRAC EQUIPMENT

Total Received	Total Consumed	Total Returned
156,762.7	156,762.7	0.0

Job Supply Amounts

Date	Supply Item Des	Type	Received	Consumed	Returned	Cum Received	Cum Consumed	Cum Returned
11/17/2020 10:36	DIESEL	FRAC EQUIPMENT	9,922	9,922		156,762.7	156,762.7	0.0

Perforations

Int #	Prop?	Type	Top (ftKB)	Btm (ftKB)	Btm - Top (ft)	Shot Dens (shots/ft)	Entered Shot Total	String Perforated	Com	Cluster #
63	No	CONVENTIONAL PERF	9,054.0	9,055.0	1.0	3.0	6	PRODUCTION, 18,523.0ftKB		5
63	No	CONVENTIONAL PERF	9,084.0	9,085.0	1.0	3.0	6	PRODUCTION, 18,523.0ftKB		4
63	No	CONVENTIONAL PERF	9,114.0	9,115.0	1.0	3.0	8	PRODUCTION, 18,523.0ftKB		3
63	No	CONVENTIONAL PERF	9,144.0	9,145.0	1.0	3.0	10	PRODUCTION, 18,523.0ftKB		2
63	No	CONVENTIONAL PERF	9,174.0	9,175.0	1.0	3.0	10	PRODUCTION, 18,523.0ftKB		1
62	No	CONVENTIONAL PERF	9,204.0	9,205.0	1.0	3.0	6	PRODUCTION, 18,523.0ftKB		5
62	No	CONVENTIONAL PERF	9,234.0	9,235.0	1.0	3.0	6	PRODUCTION, 18,523.0ftKB		4
62	No	CONVENTIONAL PERF	9,264.0	9,265.0	1.0	3.0	8	PRODUCTION, 18,523.0ftKB		3
62	No	CONVENTIONAL PERF	9,294.0	9,295.0	1.0	3.0	10	PRODUCTION, 18,523.0ftKB		2
62	No	CONVENTIONAL PERF	9,324.0	9,325.0	1.0	3.0	10	PRODUCTION, 18,523.0ftKB		1
61	No	CONVENTIONAL PERF	9,354.0	9,355.0	1.0	3.0	6	PRODUCTION, 18,523.0ftKB		5



PIONEER  
NATURAL RESOURCES

UNIVERSITY E2-34B 102H

Job: OCMS  
Report Date: 11/18/2020  
Report #: 23  
AFE #: 9007328  
Total AFE + Sup: \$3,203,179.10  
Cum Field Estimate: \$3,036,426.92  
Daily Field Estimate: \$219,920.47

Proppants		
Type	Des	Sand Size
BROWN	100 MESH BROWN	100 MESH
BROWN	40/70 BROWN	40/70

Frac Stage 62 on 11/17/2020 22:00

Proposed? No	Type HYDRAULIC FRACTURE	Date 11/17/2020		String (Deployment Method) PRODUCTION, 18,523.0ftKB			Top Depth (ftKB) 9,204.0	Bottom Depth (ftKB) 9,325.0
Post Job Frac Gradient (...) 0.89	Pump Power Max (hp)	Proppant Designed (lb)	Proppant In Formation (lb)	Proppant In Wellbore (lb)	Proppant Total (lb) 376,610.0	Clean Volume Design (bbl)	Total Clean Volume (bbl) 10,163.00	
Open Wellhead (psi) 3,076.0	Final ISIP (psi) 3,991.0	Close Wellhead (psi) 3,778.0	Breakdown Pressure (psi) 5,822.0	Max Treating Pressure (...) 9,186.0	Avg Treating Pressure (...) 8,718.0	Max Slurry Rate (bbl/min) 107	Avg Slurry Rate (bbl/min) 99	

Comment  
Stage#62 PTD

Pumping Summary

Stage Type	Start Date	End Date	Total Clean Volume (bbl)	Cum Total Clean Vol (bbl)	Link to Proppant	Surf Proppant Conc End (lb/gal)	Proppant Mass (lb)	Cum Proppant Mass (lb)
PAD	11/17/2020 22:00	11/17/2020 22:06	237.00	237.00				
SLURRY	11/17/2020 22:06	11/17/2020 22:17	1,069.00	1,306.00	BROWN, 100 MESH		11,224.5	11,224.5
SLURRY	11/17/2020 22:17	11/17/2020 22:30	1,309.00	2,615.00	BROWN, 100 MESH		13,744.5	24,969.0
SLURRY	11/17/2020 22:30	11/17/2020 22:43	1,270.00	3,885.00	BROWN, 100 MESH		26,670.0	51,639.0
SLURRY	11/17/2020 22:43	11/17/2020 22:56	1,262.00	5,147.00	BROWN, 100 MESH		39,753.0	91,392.0
SLURRY	11/17/2020 22:56	11/17/2020 23:09	1,265.00	6,412.00	BROWN, 100 MESH		53,130.0	144,522.0
SLURRY	11/17/2020 23:09	11/17/2020 23:24	1,264.00	7,676.00	BROWN, 100 MESH		79,632.0	224,154.0
SLURRY	11/17/2020 23:24	11/17/2020 23:36	1,069.00	8,745.00	BROWN, 100 MESH		77,106.0	301,260.0
SLURRY	11/17/2020 23:36	11/17/2020 23:43	667.00	9,412.00	BROWN, 40/70		49,024.5	350,284.5
SLURRY	11/17/2020 23:43	11/17/2020 23:47	351.00	9,763.00	BROWN, 40/70		26,325.5	376,610.0
FLUSH	11/17/2020 23:47	11/17/2020 23:51	282.00	10,045.00				376,610.0
PUMP DOWN	11/18/2020 00:21	11/18/2020 00:23	118.00	10,163.00				376,610.0

Proppants		
Type	Des	Sand Size
BROWN	100 MESH BROWN	100 MESH
BROWN	40/70 BROWN	40/70

Frac Stage 63 on 11/18/2020 03:31

Proposed? No	Type HYDRAULIC FRACTURE	Date 11/18/2020		String (Deployment Method) PRODUCTION, 18,523.0ftKB			Top Depth (ftKB) 9,054.0	Bottom Depth (ftKB) 9,175.0
Post Job Frac Gradient (...) 0.92	Pump Power Max (hp)	Proppant Designed (lb)	Proppant In Formation (lb)	Proppant In Wellbore (lb)	Proppant Total (lb) 375,856.5	Clean Volume Design (bbl)	Total Clean Volume (bbl) 10,224.00	
Open Wellhead (psi) 3,032.0	Final ISIP (psi) 4,259.0	Close Wellhead (psi) 3,712.0	Breakdown Pressure (psi) 5,433.0	Max Treating Pressure (...) 9,344.0	Avg Treating Pressure (...) 8,785.0	Max Slurry Rate (bbl/min) 106	Avg Slurry Rate (bbl/min) 99	

Comment  
Stage# 63  
PTD

Pumping Summary

Stage Type	Start Date	End Date	Total Clean Volume (bbl)	Cum Total Clean Vol (bbl)	Link to Proppant	Surf Proppant Conc End (lb/gal)	Proppant Mass (lb)	Cum Proppant Mass (lb)
PAD	11/18/2020 03:31	11/18/2020 03:36	227.00	227.00				
SLURRY	11/18/2020 03:36	11/18/2020 03:49	1,088.00	1,315.00	BROWN, 100 MESH		11,424.0	11,424.0
SLURRY	11/18/2020 03:49	11/18/2020 04:02	1,310.00	2,625.00	BROWN, 100 MESH		13,755.0	25,179.0
SLURRY	11/18/2020 04:02	11/18/2020 04:15	1,263.00	3,888.00	BROWN, 100 MESH		26,523.0	51,702.0
SLURRY	11/18/2020 04:15	11/18/2020 04:28	1,266.00	5,154.00	BROWN, 100 MESH		39,879.0	91,581.0
SLURRY	11/18/2020 04:28	11/18/2020 04:43	1,261.00	6,415.00	BROWN, 100 MESH		52,962.0	144,543.0
SLURRY	11/18/2020 04:43	11/18/2020 04:56	1,263.00	7,678.00	BROWN, 100 MESH		79,569.0	224,112.0
SLURRY	11/18/2020 04:56	11/18/2020 05:08	1,199.00	8,877.00	BROWN, 100 MESH		75,617.0	299,729.0
SLURRY	11/18/2020 05:08	11/18/2020 05:15	667.00	9,544.00	BROWN, 40/70		49,024.5	348,753.5
SLURRY	11/18/2020 05:15	11/18/2020 05:19	400.00	9,944.00	BROWN, 40/70		27,103.0	375,856.5
FLUSH	11/18/2020 05:19	11/18/2020 05:23	280.00	10,224.00				375,856.5

Proppants		
Type	Des	Sand Size
BROWN	40/70 BROWN	40/70
BROWN	100 MESH BROWN	100 MESH

Other In Hole

Prop Run?	Prop Pull?	Des	Run Date	OD (in)	Top (ftKB)	Btm (ftKB)	Pull Date	Plug Drill Out Duration (min)	Com
No	Yes	FRAC PLUG	11/17/2020 08:27	4.37	9,638.0	9,640.0			STG 60
No	Yes	FRAC PLUG	11/17/2020 13:48	4.37	9,488.0	9,490.0			STG 61
No	Yes	FRAC PLUG	11/17/2020 19:05	4.37	9,338.0	9,340.0			STG 62
No	Yes	FRAC PLUG	11/18/2020 00:25	4.37	9,188.0	9,190.0			STG 63

PIONEER

NATURAL RESOURCES

UNIVERSITY E2-34B 102H

FRAC FLEET / CREW #

Contractor

Rig #

PPS4

Job:

Report Date:

Report #:

AFE #:

Total AFE + Sup:

Cum Field Estimate:

Daily Field Estimate:

OCMS

11/19/2020

24

9007328

\$3,203,179.10

\$3,100,736.82

\$63,606.73

SSN

API/UWI

Property Sub

Field Name

Open Formation

Spud Date

TD (max) (ftKB)

ID00023161

42-383-40731-0000

SPRABERRY (TREND AREA)

WOLFCAMP B3 (WFMP B3)

11/11/2019

18,538.0

Job Category

Primary Job Type

Start Date

End Date

Job Status

Responsible Grp 2

ORIG COMPLETION

OCMS

10/23/2020

IN PROGRESS

STIM ENG - NATHAN DEALY

Job Dates

Date

Type

Subtype

Note

10/21/2020

MILESTONE

INITIAL WOPR

10/29/2020

MILESTONE

FINAL WOPR

11/3/2020

MILESTONE

READY TO START (RTS)

11/18/2020

PLAN

STIMULATION END

Safety Checks

Time

Type

Des

Tour

Com

06:01

MEETING

JSA

DAY

VENDOR JSA REVIEW

06:05

MEETING

PRE-TOUR

DAY

PJSM WITH ALL PERSONNEL

06:10

PROACTIVE MEASURES

WEEKLY TRENDS REVIEWED

DAY

\*\*DISCUSS HAND PLACEMENT SAFETY & GOOD COMMUNICATION PRACTICES\*\*

17:30

MEETING

JSA

NIGHT

VENDOR JSA REVIEW

17:35

MEETING

PRE-TOUR

NIGHT

PJSM WITH ALL PERSONNEL

17:40

PROACTIVE MEASURES

WEEKLY TRENDS REVIEWED

NIGHT

\*\*DISCUSS HAND PLACEMENT SAFETY & GOOD COMMUNICATION PRACTICES\*\*

Daily Contacts on Location

Contact Name

Title

Tour

Mobile

Alt Mobile #

Note

DEALY, NATHAN

ENGINEER

432-215-2340

ROUSE, WALTER

SUPERINTENDENT

361-318-9076

ROLLO, GLEN

FOREMAN

DAY

719-859-3079

ROBERTS, JOE

FOREMAN

DAY

580-736-4046

DUCOTE, CHAD

SUPERINTENDENT

NIGHT

817-964-4112

THOMAS, JAMIE

COMPLETION ENGINEER

NIGHT

432-556-3458

Personnel Log

Company

Count

CACTUS WELLHEAD LLC

2

LOUISIANA CRANE & CONSTRUCTION LLC

2

PROPETRO SERVICES INC

25

PERFX WIRELINE SERVICES LLC

10

MANTICORE FUELS LLC

4

PIONEER NATURAL RESOURCES USA INC

4

PURESTREAM SERVICES INC

2

DOWNHOLE CHEMICAL SOLUTIONS LLC

2

UNITED SHUTDOWN SAFETY TEXAS INC

2

Daily Operations

Operations at Report Time

Daily Goal Description

Daily Goal - Last 24

STIM OPS

STAGES PER DAY

1.0

Operations Summary

FRAC STGS: 64

UTF: 0.87 hrs. - Repair pinhole in missile

SET 2 KILL PLUGS

Operations Next Report Period

STIM OPS

Remarks

NO ACCIDENTS OR INCIDENTS

Time Log

Start Time

End Time

Dur (hr)

Phase

Activity

Operation

Com

Ops Category

Prob Ref #

Prob Hrs (hr)

Frac Stage

06:00

06:18

0.3

STIM, OPS

WIRELINE

WL\_RUNUP

POOH - PLUG SET / ASF

NORMAL

06:18

12:14

5.94

STIM, OPS

NONOPS

PAD

WAIT ON OFFSET WELLS

NORMAL

12:14

13:26

1.2

STIM, OPS

SWAPOVER

SWAP\_FRAC

SWAP TO FRAC

NORMAL

6

0.87

64

13:26

14:54

1.47

STIM, OPS

FRAC

STIM

FRAC STG 64

NORMAL

64

14:54

15:01

0.11

STIM, OPS

SWAPOVER

SWAP\_WL

SWAP TO WL

NORMAL

15:01

15:37

0.6

STIM, OPS

WIRELINE

WL\_RUNDN

RIH - SET KP1 @ 8,884'  
PERFORM POS. & NEG PSI TEST / TEST GOOD

NORMAL

15:37

15:50

0.22

STIM, OPS

WIRELINE

WL\_RUNUP

POOH - PLUG SET

NORMAL

15:50

16:03

0.21

STIM, OPS

SWAPOVER

SWAP\_WL

SWAP TO WL

NORMAL

16:03

16:27

0.4

STIM, POST OPS

WIRELINE

WL\_RUNDN

RIH - SET KP2 @ 8,834'

NORMAL

16:27

16:40

0.22

STIM, POST OPS

WIRELINE

WL\_RUNUP

POOH - PLUG SET

NORMAL

16:40

17:45

1.08

STIM, POST OPS

NONOPS

PAD

WAIT ON OFFSET WELLS

NORMAL

PIONEER

NATURAL RESOURCES

UNIVERSITY E2-34B 102H

Job:

Report Date:

Report #:

AFE #:

Total AFE + Sup:

Cum Field Estimate:

Daily Field Estimate:

OCMS

11/19/2020

24

9007328

\$3,203,179.10

\$3,100,736.82

\$63,606.73

Time Log

Start Time	End Time	Dur (hr)	Phase	Activity	Operation	Com	Ops Category	Prob Ref #	Prob Hrs (hr)	Frac Stage
17:45	06:00	12.25	STIM, POST OPS	SETUP	RURD	RDMO TO NEXT 3 WELLS PAD SET	NORMAL			

Fluid Summary

Fluid	Cum to Well (bbl)	To well (bbl)	Cum from Well (bbl)	From well (bbl)	Left to recover (bbl)
DISPOSED			224.0		-224.0
WELL FLUID	672,364.0	8,233.0	8,233.0	8,233.0	664,131.0

Interval Problems

UNABLE TO FRAC, FRAC/STIMULATION EQUIPMENT, MISSILE, 11/18/2020 12:34

Ref #	End Date	Dur (Net) (hr)	Excl...	Accountable Party	Est Cost OR (C...	Comment
6	11/18/2020 13:26	0.87	No	PROPETRO SERVICES INC		Patch hole in missile

Rigs

Contractor	Rig #	Start Date	RR Date	Rig Type
DYNASTY WIRE LINE	PRESTIM	10/26/2020 06:00	10/30/2020 10:00	WIRELINE
PPS	PRESTIM	10/26/2020 06:00	10/30/2020 10:00	PUMPDOWN
PPS	4	11/1/2020 06:00	11/18/2020 18:00	FRAC FLEET
PERFX	STIM	11/1/2020 23:00	11/18/2020 18:00	WIRELINE
PPS	STIM	11/2/2020 06:00	11/18/2020 18:00	PUMPDOWN

DIESEL, SURFACE RENTALS

Total Received	Total Consumed	Total Returned
1,828.0	1,828.0	0.0

Job Supply Amounts

Date	Supply Item Des	Type	Received	Consumed	Returned	Cum Received	Cum Consumed	Cum Returned
11/18/2020 07:00	DIESEL	SURFACE RENTALS	226	226		1,828.0	1,828.0	0.0

DIESEL, FRAC EQUIPMENT

Total Received	Total Consumed	Total Returned
161,761.7	161,761.7	0.0

Job Supply Amounts

Date	Supply Item Des	Type	Received	Consumed	Returned	Cum Received	Cum Consumed	Cum Returned
11/18/2020 18:56	DIESEL	FRAC EQUIPMENT	4,999	4,999		161,761.7	161,761.7	0.0

Perforations

Int #	Prop?	Type	Top (ftKB)	Btm (ftKB)	Btm - Top (ft)	Shot Dens (shots/ft)	Entered Shot Total	String Perforated	Com	Cluster #
64	No	CONVENTIONAL PERF	8,934.0	8,935.0	1.0	3.0	6	PRODUCTION, 18,523.0ftKB		4

Stimulations Summary

Stim/Treat Company	Diversion Company	Diversion Method	Start Date	End Date	Job
PROPETRO	CACTUS WELLHEAD LLC	COMPOSITE PLUG	11/3/2020 06:34		OCMS, 10/23/2020 06:00

Number of Treatment Intervals	Design Number of Treatment Intervals	Volume Clean Total (bbl)	Proppant Total (lb)
64	64	671,332.96	23,975,444.5

Stimulation Intervals

Frac Stage 64 on 11/18/2020 13:26

Proposed?	Type	Date	String (Deployment Method)	Top Depth (ftKB)	Bottom Depth (ftKB)
No	HYDRAULIC FRACTURE	11/18/2020	PRODUCTION, 18,523.0ftKB	8,904.0	9,025.0

Post Job Frac Gradient (...)	Pump Power Max (hp)	Proppant Designed (lb)	Proppant In Formation (lb)	Proppant In Wellbore (lb)	Proppant Total (lb)	Clean Volume Design (bbl)	Total Clean Volume (bbl)
0.91			300,707.0		300,707.0		8,233.00

Open Wellhead (psi)	Final ISIP (psi)	Close Wellhead (psi)	Breakdown Pressure (psi)	Max Treating Pressure (...)	Avg Treating Pressure (...)	Max Slurry Rate (bbl/min)	Avg Slurry Rate (bbl/min)
2,888.0	4,160.0	3,641.0	4,940.0	9,202.0	8,734.0	106	102

Comment

Stage#64 PTD

Pumping Summary

Stage Type	Start Date	End Date	Total Clean Volume (bbl)	Cum Total Clean Vol (bbl)	Link to Proppant	Surf Proppant Conc End (lb/gal)	Proppant Mass (lb)	Cum Proppant Mass (lb)
PAD	11/18/2020 13:26	11/18/2020 13:30	159.00	159.00				
SLURRY	11/18/2020 13:30	11/18/2020 13:40	861.00	1,020.00	BROWN, 100 MESH		9,040.5	9,040.5
SLURRY	11/18/2020 13:40	11/18/2020 13:50	1,048.00	2,068.00	BROWN, 100 MESH		11,004.0	20,044.5
SLURRY	11/18/2020 13:50	11/18/2020 14:00	1,010.00	3,078.00	BROWN, 100 MESH		21,210.0	41,254.5
SLURRY	11/18/2020 14:00	11/18/2020 14:10	1,010.00	4,088.00	BROWN, 100 MESH		31,815.0	73,069.5
SLURRY	11/18/2020 14:10	11/18/2020 14:20	1,010.00	5,098.00	BROWN, 100 MESH		42,420.0	115,489.5
SLURRY	11/18/2020 14:20	11/18/2020 14:31	1,010.00	6,108.00	BROWN, 100 MESH		63,630.0	179,119.5
SLURRY	11/18/2020 14:31	11/18/2020 14:42	968.00	7,076.00	BROWN, 100 MESH		61,300.0	240,419.5
SLURRY	11/18/2020 14:42	11/18/2020 14:47	533.00	7,609.00	BROWN, 40/70		39,175.5	279,595.0
SLURRY	11/18/2020 14:47	11/18/2020 14:51	375.00	7,984.00	BROWN, 40/70		21,112.0	300,707.0
FLUSH	11/18/2020 14:51	11/18/2020 14:54	249.00	8,233.00				300,707.0
PUMP DOWN	11/18/2020 14:55	11/18/2020 14:56	0.00	8,233.00				300,707.0

Proppants

Type	Des	Sand Size
BROWN	40/70 BROWN	40/70
BROWN	100 MESH BROWN	100 MESH

Other In Hole

Prop Run?	Prop Pull?	Des	Run Date	OD (in)	Top (ftKB)	Btm (ftKB)	Pull Date	Plug Drill Out Duration (min)	Com
No	Yes	BRIDGE PLUG	11/18/2020 15:37	4.37	8,882.0	8,884.0			KILL PLUG #1
No	Yes	BRIDGE PLUG	11/18/2020 16:27	4.37	8,832.0	8,834.0			KILL PLUG #2