

# Daily Drilling Report

PATTERSON - UTI #802	
Accept: 8/29/2017	Release:
Days Since LTI: 811.00	Days Since RI: 811.00

Job:	ODR
Report Date:	10/21/2017
Report #:	29
DFS:	27
AFE #:	043159
Total AFE + Sup:	\$3,484,559.52
Daily Field Est. (Cost):	\$194,251.48

## Daily Drilling Report

Time Log										
Start Time	Dur (hr)	End Time	Phase	Operation	Ops Category	Com	Start Depth (ftKB)	End Depth (ftKB)	Prob Hrs (hr)	Prob Ref #
06:00	2	08:00	PROD, CASE & CMT	CMT	NORMAL	Cemented 5 1/2" casing as follows:  ? Pump 580 bbls tail cement (1980 sacks, 1.64 ft³/sk yield, mixed @ 12.5 ppg)  Wash up lines to open top.  Drop 2nd Plug (1000 psi rupture pressure). Pump 5 bbl H2O w/1 gal/bbl D110 Retarder; Drop Top Plug (3000 psi rupture pressure) Displace w/15 bbl H2O w/1 gal/bbl D110 & continue displacement W/416 bbl H2O w/0.05 gal/bbl M300 biocide, Plug bumped @ 07:58 hrs 10/20/2017. FCP: 2,100 psi, Bump PSI: 1,600 psi, Held PSI: 3,700 psi. Bled back 5.5 bbls. Lift pressures in Cement Report. Dumped 76 bbls of contaminated OBM (Mud Push). Full returns throughout operations.  Confined Space Permit, PTW's and Fluid transfers in place.	19,705.0	19,705.0		
08:00	0.75	08:45	DEMOB, RIG DOWN	RD_CMT	NORMAL	PJSM & RD cementing head and iron.	19,705.0	19,705.0		
08:45	0.25	09:00	DEMOB, RIG DOWN	RD_CSG	NORMAL	Remove & L/D landing jt.	19,705.0	19,705.0		
09:00	0.25	09:15	DEMOB, RIG DOWN	SFTY	NORMAL	PJSM w/ Patt, Franks, & PNR over rigging down CRT.	19,705.0	19,705.0		
09:15	1.5	10:45	DEMOB, RIG DOWN	RD_CSG	NORMAL	Rig down CRT, Service Loop, & control panel per Franks Casing crew.	19,705.0	19,705.0		
10:45	0.25	11:00	DEMOB, RIG DOWN	RU MIRU	NORMAL	Install Bails and Elevators on Top Drive	19,705.0	19,705.0		
11:00	7.5	18:30	DEMOB, RIG DOWN	WELL_CTRL	NORMAL	Shut well in while monitoring casing pressure, Casing pressure started coming up while blinds were closed during R/D CRT ops, decision to shut in for 12 hours from pump time of tail slurry.  SICP 13:00 120 psi 14:00 346 psi 15:00 514 psi 16:00 651 psi 17:00 748 psi 18:00 780 psi 18:15 780 psi  Opened well through choke @ 18:15, pressure bled down, monitored on trip tanks, well was static.  ? While shut in, cleaning on pits, Clean and R/D misc. on rig floor, flush through both mud pumps and surface lines above blind rams, Remove catch pan and tarp from BOP.	19,705.0	19,705.0		
18:30	0.25	18:45	DEMOB, RIG DOWN	SFTY	NORMAL	PJSM w/Cactus, Patterson and PNR, on setting packoff.	19,705.0	19,705.0		
18:45	3.25	22:00	DEMOB, RIG DOWN	WH	NORMAL	M/U Wash tool, Flush through both mud pumps, choke manifold and mud gas separator, while washing wellhead for packoff installation. L/D Wash tool, drain stack,  Install pack off & test to 5,000 psi, Pull test 40k then test to 5,000 psi/15 mins., Pull setting tool, L/D setting tool & wash tool.  ? PNR Rep. witness operation. ? Confined Space Permit in place. ? Drill Pipe Inspection complete. ? Rig Runners rigging up crane to set out solids control equipment, Barite and Gel silos, etc.	19,705.0	19,705.0		
22:00	0.5	22:30	DEMOB, RIG DOWN	SFTY	NORMAL	Re-Focus meeting with all personnel on location, Meyers, Edge, Patterson, Rig Runners, Twisted K, & PNR.	19,705.0	19,705.0		
22:30	2.75	01:15	DEMOB, RIG DOWN	RD RDMO	NORMAL	Nipple down flowline, bolt hung in flange on orbit valve, unable to lift BOP, remove back stairs and set out flowline w/crane, while crane in position removed V-Door & flowline skid on tarp house.  ? Meyers cont. pit cleaning.	19,705.0	19,705.0		

Time Log										
Start Time	Dur (hr)	End Time	Phase	Operation	Ops Category	Com	Start Depth (ftKB)	End Depth (ftKB)	Prob Hrs (hr)	Prob Ref #
01:15	0.25	01:30	DEMOB, RIG DOWN	SFTY	NORMAL	PJSM W/Edge, Cactus, Patterson and PNR on N/D BOP & Spools.	19,705.0	19,705.0		
01:30	4.5	06:00	DEMOB, RIG DOWN	ND_BOPE	NORMAL	<p>N/D BOP's, Remove choke &amp; kill lines, remove accumulator lines, Lift stack and lay over on BOP Wrangler, N/D Spools, Remove quick connect from wellhead, Install and test abandonment cap to 500 psi/15 min.</p> <p>? Mud gas separator rigged down and laid over.</p> <p>? Meyers completed pit cleaning @ 04:00.</p> <p>? Setting out solids control equipment and misc. in backyard.</p> <p>? Ran 100% of previous 24 hours on 1 generator,</p>	19,705.0	19,705.0		

**DOWNHOLE CONDITIONS, 19,705.0ftKB, 10/20/2017 11:00**

Ref #	Dur (N...)	Ex...	Subtype	Problem Descript..	Est Cost (Cost)	Accountable Party	Comment
10	7.50	Yes	WELLBORE	TEMPERATURE		PIONEER NATURAL RESOURCES USA INC	<p>Shut well in while monitoring casing pressure, Casing pressure started coming up while blinds were closed during R/D CRT ops, decision to shut in for 12 hours from pump time of tail slurry.</p> <p>Excluded from problem time calcs due to being able to move forward in Demob process while monitoring.</p>

[illegible]

Time 01:00		Mud Company DWM CONSULTING LLC			Type OIL BASE		Depth (ftKB) 19,705.0		Density (lb/gal) 8.30		Funnel Viscosity (s/qt) 49		T Flowline (°F) 0.0				
PV (cP) 9.0		YP (lb/100ft²) 8.000		Vis 3rpm 5		Vis 6rpm 6		Filtrate (mL/30min)		HTHP Filtrate (mL/30min) 11.6		HTHP Temperature (°F) 250.0		HTHP Pressure (psi) 600.0			
Solids (%) 7.5				Low Gravity Solids (%) 6.8				Sand (%)		MBT (lb/bbl)		Pm (mL/mL)		Pf (mL/mL)			
Chlorides (ppm) 238,965.000			Calcium (ppm)			CaCl (ppm) 198,358		Oil Water Ratio 90.8/9.2		Electric Stab (V) 1,349.0			Lime (lb/bbl) 3.6		pH		
Gel 10 sec (lb/100ft²) 9.000						Gel 10 min (lb/100ft²) 14.000						Gel 30 min (lb/100ft²) 14.000					

Remarks: Finshed running casing and cemented same. Demob University 7-43 113H to move rig.

Drilling Fluid: No mud treatments last 24 hours.

Sensors on frac tanks checked and all are as installed by Rental Express.

Daily Diesel Usage: 0 bbls (0 gal)  
Cumulative Diesel Used: 1557 bbls (67390 gal)  
Daily Water Usage: 0 bbls  
Cumulative Water Used: 214 bbls  
OBM Lost Shakers: 0 bbls  
OBM Lost Centrifuge: 0 bbls  
OBM Lost Hole: 0 bbls  
OBM Total Lost: 852 bbls

Responsible Grp 2	Job Type	Start Date	End Date	Job Status
DRL ENG - AUSTIN JACKSON	ODR	8/29/2017 20:45		IN PROGRESS

Date	Test Type	Item Tested	Next Test Date	Com
10/6/2017	BOP	BOP'S, 9/3/2017 02:00, <class>	10/27/2017	Full BOP test

Test Type	Depth (ftKB)	Dens Fluid (lb/gal)
FORMATION INTEGRITY	1,880.0	12.62
FORMATION INTEGRITY	7,006.0	10.00

Test Type	Test Subtype	Date	Item Tested	Failed?	Time (min)	P (psi)
CASING	STANDARD	9/3/2017	SURFACE, 1,852.3ftKB	No	30.00	1,000.0
CASING	STANDARD	10/6/2017	INTERMEDIATE, 7,005.9ftKB	No	30.00	2,500.0

Date	Type	Top Depth (ftKB)
10/8/2017 22:15	KICK OFF	8,986.0
10/9/2017 18:15	HEEL	9,900.0
10/16/2017 22:45	TOE	19,705.0

Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
CONDUCTOR	109.0	109.0	20	H40	78.67		
SURFACE	1,852.3	1,852.2	13 3/8	J55	54.50	BTC	1,232.6
INTERMEDIATE	7,005.9	6,962.5	9 5/8	L80-IC	40.00	BTC	3,617.2
PRODUCTION	19,690.2	9,446.0	5 1/2	P110-IC	20.00	TXPBTC	

Daily Drilling Report

UNIVERSITY 7-43 113H

PATTERSON - UTI #802  
Accept: 8/29/2017      Release:  
Days Since LTI: 811.00      Days Since RI: 811.00

PERMIAN ASSET TEAM

Job: ODR  
Report Date: 10/21/2017  
Report #: 29  
DFS: 27  
AFE #: 043159  
Total AFE + Sup: \$3,484,559.52  
Daily Field Est. (Cost): \$194,251.48

Cement													
PRODUCTION CASING CEMENT, Casing, 10/20/2017 03:30													
Cementing End Date 10/20/2017 08:00	Wellbore ORIGINAL	Technical Result SUCCESS	Comment Cemented 5 1/2" casing as follows:  Pump 20 bbl Fresh Water, Flush lines to pit. Test lines to 3,500 psi  Mix and Pump: ? Pump 50 bbl spacer (9.5 ppg Mud Push) ? Drop bottom plug (1st plug w/ 1000 psi rupture psi). ? Pump 217 bbls lead cement (541 sacks, 2.25 ft³/sk yield, mixed @ 11.5 ppg) ? Pump 580 bbls tail cement (1980 sacks, 1.64 ft³/sk yield, mixed @ 12.5 ppg)  Wash up lines to open top. Drop 2nd Plug (1000 psi rupture pressure). Pump 5 bbl H2O w/1 gal/bbl D110 Retarder; Drop Top Plug (3000 psi rupture pressure)  Displace w/15 bbl H2O w/1 gal/bbl D110 & continue displacement W/416 bbl H2O w/0.05 gal/bbl M300 biocide, Plug bumped @ 07:58 hrs 10/20/2017. FCP: 2,100 psi, Bump 1,600 psi, Held 3,700 psi. Bled back 5.5 bbls. Floats held. Full returns throughout operations, dumped 76 bbl contaminated mud (mud push)  ? Did see middle plug rupture W/~1,100 psi 5 bbls prior to bumping top plug.  Est calc. TOC 4119' (w/20% OH excess)  Lift Pressures: 50 bbl - 320 psi @ 7.9 bpm 100 bbl - 560 psi @ 6.5 bpm 150 bbl - 1020 psi @ 6.4 bpm 200 bbl - 1600 psi @ 6.4 bpm 250 bbl - 1820 psi @ 6.4 bpm 300 bbl - 2030 psi @ 6.4 bpm 350 bbl - 2260 psi @ 6.4 bpm 400 bbl - 2460 psi @ 6.4 bpm 430 bbl - 2100 psi @ 2.0 bpm 436 bbl - 3700 psi @ Plug Bump										
Cement Stages													
Description PRODUCTION CASING CEMENT	Final Top De...	Btm (ftKB)	Top Pl...	Btm Pl...	Q Pump Init (...)	Q Pump Fina...	Q Pump Avg...	P Pump Final...	P Plug Bump...	Float...	Recip?	Rotated?	
	4,119.0	19,690.0	Yes	Yes	4	2	7	2,100.0	1,600.0	No	No	No	
Cement Fluids													
Fluid Type MUDPUSH	Estimated Top (ftKB) 3,078.0				Est Btm (ftKB) 4,155.0		Class MUDPUSH		Yield (ft³/sack) 9.50		Density (lb/gal) 11.50		
Fluid Type LEAD CMT	Estimated Top (ftKB) 4,155.0				Est Btm (ftKB) 8,562.0		Class CLASS H		Yield (ft³/sack) 2.25		Density (lb/gal) 12.50		
Fluid Type TAIL CMT	Estimated Top (ftKB) 8,562.0				Est Btm (ftKB) 19,689.0		Class CLASS H		Yield (ft³/sack) 1.64		Density (lb/gal) 8.33		
Fluid Type DSPLMT	Estimated Top (ftKB) 0.0				Est Btm (ftKB) 19,684.0		Class DISPLACEMENT		Yield (ft³/sack)		Density (lb/gal)		
Job Supply Amounts													
Supply Item Des	Type	Unit Label	Received		Consumed		Cum On Loc		Cum Consumed				
DIESEL	FUEL	GAL			446		1,282		36,537.0				
DIESEL	MUD	GAL			1,311		0		70,136.0				
Mud Additive Amounts													
Des	Type	Units	Rec		Consumed		On Loc		Cum Cons				
BULK TANK BLOWER		1 EA			2		0.0		54				
ENGINEERING - 24 HOUR		1 EA			2		0.0		57				
FORKLIFT		1 EA			2		0.0		5				
PER DIEM		1 EACH			2		0.0		53				
SCALE CHARGE		1 EA			2		0.0		2				
TECH SERVICE SUPPORT		1 EACH			1		0.0		15				
TRANSPORTATION		1 EA			4		0.0		8				
Pump Operations													
Pump #	Make	Model	Liner Size (in)		Stroke (in)		Vol/Stk (bbl/stk)		P Max (psi)				
1	BAOJI PETROLEUM MACH	TRIPLEX 1600 HP	6		12.00		0.105		4,500.0				
2	BAOJI PETROLEUM MACH	TRIPLEX 1600 HP	6		12.00		0.105		4,500.0				
Pump Checks													
Pump #	Depth (ftKB)	Time	P (psi)	Strokes (spm)		Q Flow (gpm)		Eff (%)					
Deviation Surveys													
Date 8/30/2017	Description AS DRILL SURVEY							Job ODR, 8/29/2017 20:45					
Formations													
Formation Name		Prog Top (TVD SS) Override (ft(elv))		Prog Top MD (ftKB)		Prog Top (TVD) (ftKB)		Final Top MD (ftKB)		Final Top (TVD) (ftKB)			
TARGET 1 =		-6,558.0				9,557.0							
T2		-6,554.0				9,553.0							
PBHL/TD =		-6,464.0				9,463.0							
Daily Contacts													
Job Contact		Title		Office		Mobile		Email					
GOODWIN, JODY, SUPERINTENDENT		SUPERINTENDENT		325-884-9044		972-261-4094		JODY.GOODWIN@PXD.COM					
JACKSON, AUSTIN, ENGINEER		ENGINEER		972-969-5954		469-503-1379		AUSTIN.JACKSON@PXD.COM					
PERRY, GREG, SUPERINTENDENT		SUPERINTENDENT				325-647-7362		GREG.PERRY@PXD.COM					
WIATREK, DUSTIN, FOREMAN		FOREMAN		830-534-6651		210-740-7062		DUSTIN.WIATREK@PXD.COM					
Daily Drilling Report													

# Daily Drilling Report

**PATTERSON - UTI #802**

**Release:**

**Days Since RI: 811.00**

<b>Daily Field Est. (Cost):</b>	<b>\$194,251.48</b>
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## Personnel Log

Company

PIONEER NATURAL RESOURCES USA INC	3
PATTERSON-UTI DRILLING COMPANY LLC	18
LEAM DRILLING SYSTEMS INC	0
NOV FLUIDS SERVICES	2
MILLER & ASSOCIATES DFC INC	2
TRICORPS SECURITY	2
RED RIVER OILFIELD SERVICES LLC	5
WEATHERFORD US LP	1
SCHLUMBERGER TECHNOLOGY CORP	5
MEYER ENERGY SERVICES LLC	12
TWISTED K SERVICES INC	5
RIG RUNNERS INC	4

PIONEER

NATURAL RESOURCES

UNIVERSITY 7-43 113H

FRAC FLEET / CREW #

Contractor

Rig #

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

OCM  
10/26/2017  
1  
043124  
\$5,296,678.00  
\$30,735.46  
\$30,735.46

SSN  
ID00003144

API/UWI  
42-003-47567-0000

Property Sub  
927638-113

Field Name  
SPRABERRY (TREND AREA)

Open Formation  
LOWER SPRABERRY SHALE  
(SPBY L C1)

Spud Date  
8/30/2017

TD (max) (ftKB)  
19,705.0

Job Category  
ORIG COMPLETION

Primary Job Type  
OCM

Start Date

End Date

Job Status  
AFE APPROVED

Responsible Grp 2

Job Dates

Date

Type  
PLAN

Subtype  
STIMULATION END

Note

Date

Type  
MILESTONE

Subtype  
TURN OVER TO PRODUCTION

Note

Date

Type  
MILESTONE

Subtype  
READY TO START (RTS)

Note

Safety Checks

Time

Type

Des

Tour

Com

06:00

MEETING

PRE-TOUR

DAY

Go over JSA's and safety meeting with wellhead & wireline crew.

18:00

MEETING

PRE-TOUR

NIGHT

Go over JSA's and safety meeting with wellhead & wireline crew.

Daily Contacts on Location

Contact Name

Title

Tour

Mobile

Alt Mobile #

Note

TRAYLOR, KENDALL

FOREMAN

DAY

806-440-2670

MILLS, ASHLEY

ENGINEER

DAY

432-214-6782

GREENE, MITCH

ENGINEER

DAY

432-894-7612

CHAIDEZ, OSCAR

FOREMAN

NIGHT

432-413-0513

Personnel Log

Company

Count

RUSH WELLSITE SERVICE LLC

4

CACTUS WELLHEAD

1

FMC TECHNOLOGIES INC

5

SUPREME PRODUCTION SERVICES INC

3

Daily Operations

Operations at Report Time  
Testing lines/Frac stack/Flow back

Daily Goal Description

Daily Goal - Last 24

Operations Summary  
NU and test B-section, RIH GR 4.625",JB, RIH CBL & CCL

Operations Next Report Period  
Toe prep

Remarks

Time Log

Start Time

End Time

Dur (hr)

Phase

Activity

Operation

Com

Ops Category

Prob Ref #

Prob Hrs (hr)

Frac Stage

06:00

09:00

3

PRESTIM, PRE OPS

NONOPS

SHUT\_IN

WSI

NORMAL

09:00

12:00

3

PRESTIM, PRE OPS

SETUP

WH/CELLAR

NU B-section & test flanges

NORMAL

12:00

14:00

2

PRESTIM, PRE OPS

WIRELINE

WL\_GR/JB

RIH GRJB to 9650'

NORMAL

14:00

19:05

5.085

PRESTIM, PRE OPS

WIRELINE

WL\_CBL

RIH CBL/Log TOC

NORMAL

19:05

00:50

5.75

PRESTIM, PRE OPS

SETUP

FRAC\_STAC

N/U Frac stack and test flanges

NORMAL

00:50

05:45

4.92

PRESTIM, PRE OPS

SETUP

RURD

Pump down/Flow back rigging up

NORMAL

05:45

06:00

0.25

PRESTIM, PRE OPS

TEST

TEST\_PRIME

Load lines/Test pump down lines/Flow back/Frac stack

NORMAL

Fluid Summary

Fluid

Cum to Well (bbl)

To well (bbl)

Cum from Well (bbl)

From well (bbl)

Left to recover (bbl)

Interval Problems

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

Ref #

End Date

Dur (Net) (hr)

Excl...

Accountable Party

Est Cost (Cost)

Comment

Rigs

Contractor

Rig #

Start Date

RR Date

Rig Type

<Supply Item Description?>, <Type?>

Total Received

Total Consumed

Total Returned

Stimulations Summary

Stim/Treat Company

Diversion Company

Diversion Method

Start Date

End Date

Job

Number of Treatment Intervals

Design Number of Treatment Intervals

Volume Clean Total (bbl)

Proppant Total (lb)



PIONEER

NATURAL RESOURCES

UNIVERSITY 7-43 113H

Job:

Report Date:

Report #:

AFE #:

Total AFE + Sup:

Cum Field Estimate:

Daily Field Estimate:

OCM

10/27/2017

2

043124

\$5,296,678.00

\$329,772.05

\$160,651.59

SSN

ID00003144

API/UWI

42-003-47567-0000

Property Sub

927638-113

Field Name

SPRABERRY (TREND AREA)

Open Formation

LOWER SPRABERRY SHALE (SPBY L C1)

Spud Date

8/30/2017

TD (max) (ftKB)

19,705.0

Job Category

ORIG COMPLETION

Primary Job Type

OCM

Start Date

10/28/2017

End Date

Job Status

AFE APPROVED

Responsible Grp 2

STIM ENG - JOSH MEASLES

Job Dates

Date

Type

PLAN

Subtype

STIMULATION END

Note

Date

Type

MILESTONE

Subtype

TURN OVER TO PRODUCTION

Note

Date

Type

MILESTONE

Subtype

READY TO START (RTS)

Note

Safety Checks

Time

Type

Des

Tour

Com

06:01

MEETING

PRE-TOUR

DAY

Go over JSA's and safety meeting with wellhead & wireline crew.

18:00

MEETING

PRE-TOUR

NIGHT

Go over JSA's and safety meeting with wellhead & wireline crew.

Daily Contacts on Location

Contact Name

Title

Tour

Mobile

Alt Mobile #

Note

TRAYLOR, KENDALL

FOREMAN

DAY

806-440-2670

MILLS, ASHLEY

ENGINEER

DAY

432-214-6782

GREENE, MITCH

ENGINEER

DAY

432-894-7612

CHAIDEZ, OSCAR

FOREMAN

NIGHT

432-413-0513

VILLANUEVA, FELIX

FOREMAN

NIGHT

432-413-9779

BROWN, PERRY

FOREMAN

DAY

832-690-7101

STEPHENS, BOBBY

FOREMAN

DAY

940-521-6335

Personnel Log

Company

Count

NINE ENERGY SERVICE INC

4

PNR PUMPING SERVICES LLC

12

LIFT CRANE SERVICE LLC

2

NEW WAVE WATER TRANSFER

4

PNR PUMPING SERVICES LLC

4

TETRA TECHNOLOGIES INC

2

Daily Operations

Operations at Report Time

Daily Goal Description

Daily Goal - Last 24

WSI/MIRU Frac Spread

Operations Summary

Activated burst disk, Pump chemical sweeps, RIH to perforate for stage 1.

Operations Next Report Period

Stim 1-42

Remarks

Time Log

Start Time

End Time

Dur (hr)

Phase

Activity

Operation

Com

Ops Category

Prob Ref #

Prob Hrs (hr)

Frac Stage

06:00

08:57

2.96

PRESTIM, OPS

NONOPS

SHUT\_IN

WSI

NORMAL

08:57

09:27

0.5

PRESTIM, OPS

PUMP DOWN

PD\_SLEEVE

Brought pressure up to 2500 psi for 10 minutes good test. Walked up pressure to 4500 psi, Increased pressure to 5400 Sleeve opened at 5370 psi. Brought up rate to12 bpm and pumped 150 bbls then slowed down rate to 2 bpm to start toe prep chemicals.

NORMAL

09:27

11:39

2.2

PRESTIM, OPS

PUMP DOWN

PD\_CHEM

Pumped chemical sweep with 2000 gallons of 15% acid & 750 gallons of limonene. Pumped casing volume plus 50 bbl @ 5 bpm. Achieved injection rate of 20 bpm @ 6600 PSI.

NORMAL

11:39

15:00

3.35

PRESTIM, OPS

NONOPS

SHUT\_IN

WSI

NORMAL

15:00

20:25

5.417

PRESTIM, OPS

SETUP

RURD

RU Nine WL/Installing weights on Crane.

NORMAL

1

1.17

20:25

21:30

1.083

PRESTIM, OPS

WIRELINE

WL\_RUNDN

RIH P/P Stage 1/Test casing to 9,544 psi. Good test

NORMAL

21:30

00:55

3.417

PRESTIM, OPS

WIRELINE

WL\_RUNUP

POOH Logging

NORMAL

2, 3

1.00

00:55

06:00

5.08

PRESTIM, OPS

NONOPS

PAD

WSI, No Activity

NORMAL

Fluid Summary

Fluid

Cum to Well (bbl)

To well (bbl)

Cum from Well (bbl)

From well (bbl)

Left to recover (bbl)

WELL FLUID

1,259.0

1,259.0

1,259.0

Interval Problems

WIRELINE, CRANE, OTHER, 10/26/2017 16:45

Ref #

End Date

Dur (Net) (hr)

Excl...

Accountable Party

Est Cost (Cost)

Comment

1

10/26/2017 17:55

1.17

No

LIFT CRANE SERVICE LLC

Crane would not scope out/in. had to lay lubricator down.

WIRELINE, LUBRICATOR, OTHER, 10/26/2017 22:40

Ref #

End Date

Dur (Net) (hr)

Excl...

Accountable Party

Est Cost (Cost)

Comment

2

10/26/2017 23:05

0.42

No

NINE ENERGY SERVICE INC

Leak on bleed off valve on lubricator

MISC. SERVICES, PUMP DOWN PUMP, OTHER, 10/26/2017 21:55

Ref #

End Date

Dur (Net) (hr)

Excl...

Accountable Party

Est Cost (Cost)

Comment

3

10/26/2017 22:30

0.58

No

PNR PUMPING SERVICES LLC

Swapped out leaking 1X1 valve

PIONEER  
NATURAL RESOURCES

UNIVERSITY 7-43 113H

Job: OCM

Report Date: 10/27/2017

Report #: 2

AFE #: 043124

Total AFE + Sup: \$5,296,678.00

Cum Field Estimate: \$329,772.05

Daily Field Estimate: \$160,651.59

FRAC FLEET / CREW #

Contractor	Rig #
PIONEER PUMPING SERVICES	4

Rigs

Contractor	Rig #	Start Date	RR Date	Rig Type
CDK PERFORATING (NINE ENERGY)		10/26/2017 06:01		WIRELINE
PIONEER PUMPING SERVICES	BULLPEN	10/26/2017 06:01		FRAC FLEET
PIONEER PUMPING SERVICES	4	10/26/2017 06:01		FRAC FLEET

<Supply Item Description?>, <Type?>

Total Received	Total Consumed	Total Returned
----------------	----------------	----------------

Perforations

Int #	Prop?	Type	Top (ftKB)	Btm (ftKB)	Btm - Top (ft)	Shot Dens (shots/ft)	Entered Shot Total	String Perforated	Com	Cluster #
1	No	CONVENTIONAL PERF	19,454.0	19,456.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		6
1	No	CONVENTIONAL PERF	19,494.0	19,496.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		5
1	No	CONVENTIONAL PERF	19,534.0	19,536.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		4
1	No	CONVENTIONAL PERF	19,574.0	19,576.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		3
1	No	CONVENTIONAL PERF	19,614.0	19,616.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		2
1	No	CONVENTIONAL PERF	19,654.0	19,656.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		1

Stimulations Summary

Stim/Treat Company	Diversion Company	Diversion Method	Start Date	End Date	Job
PIONEER PUMPING SERVICES		COMPOSITE PLUG			OCM, 10/28/2017 06:00
Number of Treatment Intervals	Design Number of Treatment Intervals	Volume Clean Total (bbl)	Proppant Total (lb)		
0	42	0.00	0.0		

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	No	FRAC PLUG	10/26/2017 21:30	4.38	19,671.0	19,673.0			



PIONEER

NATURAL RESOURCES

UNIVERSITY 7-43 113H

Job:

Report Date:

Report #:

AFE #:

Total AFE + Sup:

Cum Field Estimate:

Daily Field Estimate:

OCM

10/28/2017

3

043124

\$5,296,678.00

\$465,802.10

\$135,428.89

SSN

API/UWI

Property Sub

Field Name

Open Formation

Spud Date

TD (max) (ftKB)

ID00003144

42-003-47567-0000

927638-113

SPRABERRY (TREND AREA)

LOWER SPRABERRY SHALE  
(SPBY L C1)

8/30/2017

19,705.0

Job Category

Primary Job Type

Start Date

End Date

Job Status

Responsible Grp 2

ORIG COMPLETION

OCM

10/25/2017

AFE APPROVED

STIM ENG - JOSH MEASLES

Job Dates

Date

Type

Subtype

Note

10/28/2017

MILESTONE

TURN OVER TO PRODUCTION

11/8/2017

MILESTONE

READY TO START (RTS)

11/8/2017

PLAN

STIMULATION END

Safety Checks

Time

Type

Des

Tour

Com

06:01

MEETING

PRE-TOUR

Day

Go over JSA's and safety meeting with wellhead & wireline crew.

18:00

MEETING

PRE-TOUR

NIGHT

Go over JSA's and safety meeting with wellhead & wireline crew.

Daily Contacts on Location

Contact Name

Title

Tour

Mobile

Alt Mobile #

Note

NECAISE, KEVIN

SUPERINTENDE  
NT

MEASLES, JOSH

ENGINEER

432-214-3508

TRAYLOR, KENDALL

FOREMAN

DAY

806-440-2670

MILLS, ASHLEY

ENGINEER

DAY

432-214-6782

GREENE, MITCH

ENGINEER

DAY

432-894-7612

CHAIDEZ, OSCAR

FOREMAN

NIGHT

432-413-0513

VILLANUEVA, FELIX

FOREMAN

NIGHT

432-413-9779

BROWN, PERRY

FOREMAN

DAY

832-690-7101

STEPHENS, BOBBY

FOREMAN

DAY

940-521-6335

Personnel Log

Company

Count

NINE ENERGY SERVICE INC

8

PNR PUMPING SERVICES LLC

24

LIFT CRANE SERVICE LLC

4

NEW WAVE WATER TRANSFER

8

PNR PUMPING SERVICES LLC

7

TETRA TECHNOLOGIES INC

4

Daily Operations

Operations at Report Time

Daily Goal Description

Daily Goal - Last 24

WL RIH

STAGES PER DAY

Operations Summary

MIRU Frac and Support Equipment

Frac Stage(s) 1

P/P Stage(s)

Opened up 3.5 hrs early.

Operations Next Report Period

STIM OPS

Remarks

NO ACCIDENTES 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

02:32

20.54

STIM, OPS

NONOPS

SHUT\_IN

WSI

NORMAL

02:32

05:05

2.55

STIM, OPS

FRAC

STIM

Frac Stage 1

NORMAL

1

05:05

05:20

0.25

STIM, OPS

SWAPOVER

SWAP\_WL

Swap/Test lube to 9,000 psi

NORMAL

05:20

06:00

0.67

STIM, OPS

WIRELINE

WL\_RUNDN

RIH

NORMAL

Fluid Summary

Fluid

Cum to Well (bbl)

To well (bbl)

Cum from Well (bbl)

From well (bbl)

Left to recover (bbl)

WELL FLUID

11,612.0

10,353.0

11,612.0

Interval Problems

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

Ref #

End Date

Dur (Net) (hr)

Excl...

Accountable Party

Est Cost (Cost)

Comment

Rigs

Contractor

Rig #

Start Date

RR Date

Rig Type

CDK PERFORATING (NINE ENERGY)

10/26/2017 06:01

WIRELINE

PIONEER PUMPING SERVICES

BULLPEN

10/26/2017 06:01

FRAC FLEET

PIONEER PUMPING SERVICES

4

10/26/2017 06:01

FRAC FLEET

<Supply Item Description?>, <Type?>

Total Received

Total Consumed

Total Returned

Stimulations Summary

Stim/Treat Company

Diversion Company

Diversion Method

Start Date

End Date

Job

PIONEER PUMPING SERVICES

COMPOSITE PLUG

10/28/2017 02:30

OCM, 10/25/2017 06:00

Number of Treatment Intervals

Design Number of Treatment Intervals

Volume Clean Total (bbl)

Proppant Total (lb)

1

42

10,353.00

603,774.0

PIONEER  
NATURAL RESOURCES

UNIVERSITY 7-43 113H

Job: OCM

Report Date: 10/28/2017

Report #: 3

AFE #: 043124

Total AFE + Sup: \$5,296,678.00

Cum Field Estimate: \$465,802.10

Daily Field Estimate: \$135,428.89

FRAC FLEET / CREW #	
Contractor	Rig #
PIONEER PUMPING SERVICES	4

Stimulation Intervals

Frac Stage 1 on 10/28/2017 02:32

Proposed? No	Type HYDRAULIC FRACTURE	Date 10/28/2017	String (Deployment Method) PRODUCTION, 19,690.0ftKB				Top Depth (ftKB) 19,454.0	Bottom Depth (ftKB) 19,656.0
Post Job Frac Gradient (...) 0.76		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)
				603,774.0		603,774.0		10,353.00
Open Wellhead (psi)	End of Job ISIP (psi)	Close Wellhead (psi)	Breakdown Pressure (psi)	Max Treating Pressure (...)	Avg Treating Pressure (...)	Max Slurry Rate (bbl/min)	Avg Slurry Rate (bbl/min)	
1,965.0	3,092.0	2,877.0	7,291.0	8,472.0	6,931.0	82.4	81	

Comment  
Name = STAGE 1, Stage Count = 7

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)
OPEN WELLHEAD	10/28/2017 02:32	10/28/2017 02:36						
ACID SPEARHEAD	10/28/2017 02:36	10/28/2017 02:47	24.00	24.00				
PAD	10/28/2017 02:47	10/28/2017 03:10	1,452.00	1,476.00				
SLURRY	10/28/2017 03:10	10/28/2017 03:15	476.00	1,952.00	BROWN SAND, 100 Mesh	0.50	8,584.0	8,584.0
SLURRY	10/28/2017 03:15	10/28/2017 03:21	524.00	2,476.00	BROWN SAND, 100 Mesh	0.75	16,627.0	25,211.0
SLURRY	10/28/2017 03:21	10/28/2017 03:28	595.00	3,071.00	BROWN SAND, 100 Mesh	1.00	26,279.0	51,490.0
SLURRY	10/28/2017 03:28	10/28/2017 03:36	631.00	3,702.00	BROWN SAND, 100 Mesh	1.25	34,252.0	85,742.0
SLURRY	10/28/2017 03:36	10/28/2017 03:42	619.00	4,321.00	BROWN, 40/70	0.75	20,244.0	105,986.0
SLURRY	10/28/2017 03:42	10/28/2017 03:55	714.00	5,035.00	BROWN, 40/70	1.00	31,261.0	137,247.0
SLURRY	10/28/2017 03:55	10/28/2017 04:03	857.00	5,892.00	BROWN, 40/70	1.50	48,328.0	185,575.0
SLURRY	10/28/2017 04:03	10/28/2017 04:16	926.00	6,818.00	BROWN, 40/70	2.00	77,580.0	263,155.0
SLURRY	10/28/2017 04:16	10/28/2017 04:25	738.00	7,556.00	BROWN, 30/50	2.00	65,018.0	328,173.0
SLURRY	10/28/2017 04:25	10/28/2017 04:37	810.00	8,366.00	BROWN, 30/50	2.50	84,599.0	412,772.0
SLURRY	10/28/2017 04:37	10/28/2017 04:49	881.00	9,247.00	BROWN, 30/50	3.00	111,229.0	524,001.0
SLURRY	10/28/2017 04:49	10/28/2017 04:57	569.00	9,816.00	BROWN, 30/50	3.50	79,773.0	603,774.0
FLUSH	10/28/2017 04:57	10/28/2017 05:07	537.00	10,353.00				603,774.0
CLOSE WELLHEAD	10/28/2017 05:07	10/28/2017 05:07		10,353.00				603,774.0

Proppants		
Type	Des	Sand Size
BROWN	BULK SAND	40/70
BROWN	BULK SAND	30/50
BROWN SAND	BULK SAND	100 Mesh

PIONEER

NATURAL RESOURCES

UNIVERSITY 7-43 113H

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

OCM  
10/29/2017  
4  
043124  
\$5,296,678.00  
\$685,808.38  
\$220,006.28

SSN  
ID00003144

API/UWI  
42-003-47567-0000

Property Sub  
927638-113

Field Name  
SPRABERRY (TREND AREA)

Open Formation  
LOWER SPRABERRY SHALE  
(SPBY L C1)

Spud Date  
8/30/2017

TD (max) (ftKB)  
19,705.0

Job Category  
ORIG COMPLETION

Primary Job Type  
OCM

Start Date  
10/25/2017

End Date

Job Status  
AFE APPROVED

Responsible Grp 2  
STIM ENG - JOSH MEASLES

Job Dates

Date

Type  
MILESTONE

Subtype  
TURN OVER TO PRODUCTION

Note

Date  
10/28/2017

Type  
MILESTONE

Subtype  
READY TO START (RTS)

Note

Date  
11/8/2017

Type  
PLAN

Subtype  
STIMULATION END

Note

Safety Checks

Time

Type

Des

Tour

Com

06:01

MEETING

PRE-TOUR

DAY

Go over JSA's and safety meeting with wellhead & wireline crew.

18:00

MEETING

PRE-TOUR

NIGHT

Held safety meeting with PPS-4 and all third party vendors. Discussed safety awareness and job duties.

Daily Contacts on Location

Contact Name

Title

Tour

Mobile

Alt Mobile #

Note

NECAISE, KEVIN

SUPERINTENDE  
NT

MEASLES, JOSH

ENGINEER

432-214-3508

TRAYLOR, KENDALL

FOREMAN

DAY

806-440-2670

MILLS, ASHLEY

ENGINEER

DAY

432-214-6782

GREENE, MITCH

ENGINEER

DAY

432-894-7612

CHAIDEZ, OSCAR

FOREMAN

NIGHT

432-413-0513

VILLANUEVA, FELIX

FOREMAN

NIGHT

432-413-9779

BROWN, PERRY

FOREMAN

DAY

832-690-7101

STEPHENS, BOBBY

FOREMAN

DAY

940-521-6335

Personnel Log

Company

Count

NINE ENERGY SERVICE INC

8

PNR PUMPING SERVICES LLC

24

LIFT CRANE SERVICE LLC

4

NEW WAVE WATER TRANSFER

8

PNR PUMPING SERVICES LLC

7

TETRA TECHNOLOGIES INC

4

Daily Operations

Operations at Report Time  
WL RIH

Daily Goal Description  
STAGES PER DAY

Daily Goal - Last 24  
3.0

Operations Summary  
Below Grade Wellhead  
Frac Stage(s) 1,2,3  
P/P Stage(s) 2,3,4  
NPT = 1.2 hrs. Pop off could not read pressure, Valves and seats, Re=prime pumps.

Operations Next Report Period  
STIM OPS

Remarks  
NO ACCIDENTES 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

06:34

0.58

STIM, OPS

WIRELINE

WL\_RUNDN

Set Plug @ 19,436

NORMAL

06:34

08:30

1.92

STIM, OPS

WIRELINE

WL\_RUNUP

POOH w/WL

NORMAL

08:30

15:28

6.97

STIM, OPS

NONOPS

PAD

WO offset wells

NORMAL

15:28

17:05

1.62

STIM, OPS

SWAPOVER

SWAP\_FRAC

Swap frac

NORMAL

4, 5, 6

1.30

17:05

19:49

2.73

STIM, OPS

FRAC

STIM

Frac Stage 2

NORMAL

7

0.22

2

19:49

20:17

0.47

STIM, OPS

SWAPOVER

SWAP\_WL

Swap/Test lube to 9,000 psi

NORMAL

20:17

21:10

0.88

STIM, OPS

WIRELINE

WL\_RUNDN

RIH

NORMAL

21:10

22:00

0.83

STIM, OPS

WIRELINE

WL\_RUNUP

POOH

NORMAL

22:00

00:20

2.34

STIM, OPS

WIRELINE

WL\_NONOPS

WL @ 200'

NORMAL

00:20

00:56

0.6

STIM, OPS

WIRELINE

WL\_MAINT

WL Re-head

NORMAL

00:56

01:48

0.87

STIM, OPS

SWAPOVER

SWAP\_FRAC

Swap

NORMAL

8

0.47

01:48

04:09

2.35

STIM, OPS

FRAC

STIM

Frac Stage 3

NORMAL

3

04:09

04:36

0.45

STIM, OPS

SWAPOVER

SWAP\_WL

Test lube to 9,000 psi

NORMAL

04:36

05:25

0.82

STIM, OPS

WIRELINE

WL\_RUNDN

RIH

NORMAL

05:25

06:00

0.58

STIM, OPS

WIRELINE

WL\_RUNUP

POOH

NORMAL

PIONEER

NATURAL RESOURCES

UNIVERSITY 7-43 113H

FRAC FLEET / CREW #

Contractor

PIONEER PUMPING SERVICES

Rig #

4

Job:

Report Date:

Report #:

AFE #:

Total AFE + Sup:

Cum Field Estimate:

Daily Field Estimate:

OCM

10/29/2017

4

043124

\$5,296,678.00

\$685,808.38

\$220,006.28

Fluid Summary

Fluid	Cum to Well (bbl)	To well (bbl)	Cum from Well (bbl)	From well (bbl)	Left to recover (bbl)
WELL FLUID	34,508.0	22,896.0			34,508.0

Interval Problems

MISC. SERVICES, WATER TRANSFER, OTHER, 10/28/2017 15:45

Ref #	End Date	Dur (Net) (hr)	Excl...	Accountable Party	Est Cost (Cost)	Comment
4	10/28/2017 16:10	0.42	No	NEW WAVE WATER TRANSFER		Water transfer refilling reserve pit

FRAC/STIMULATION EQUIPMENT, TREATING IRON, POP-OFF, 10/28/2017 16:11

Ref #	End Date	Dur (Net) (hr)	Excl...	Accountable Party	Est Cost (Cost)	Comment
5	10/28/2017 16:50	0.65	No	PNR PUMPING SERVICES LLC		Pop off system cannot read pressure, system will not seal.

FRAC/STIMULATION EQUIPMENT, PUMPS, O-RINGS/SIDECAPS, 10/28/2017 16:51

Ref #	End Date	Dur (Net) (hr)	Excl...	Accountable Party	Est Cost (Cost)	Comment
6	10/28/2017 17:05	0.23	No	PNR PUMPING SERVICES LLC		Pressure cap leaking on pump 11109

FRAC/STIMULATION EQUIPMENT, BLENDER, CENTRIFUGAL PUMP, 10/28/2017 17:24

Ref #	End Date	Dur (Net) (hr)	Excl...	Accountable Party	Est Cost (Cost)	Comment
7	10/28/2017 17:37	0.22	No	PNR PUMPING SERVICES LLC		Blender caught air causing all frac pumps to lose prime. Shut down to re prime frac pumps.

FRAC/STIMULATION EQUIPMENT, PUMPS, VALVES/SEATS, 10/29/2017 00:57

Ref #	End Date	Dur (Net) (hr)	Excl...	Accountable Party	Est Cost (Cost)	Comment
8	10/29/2017 01:25	0.47	No	PNR PUMPING SERVICES LLC		Changed out valves and seats on pump #11140. Changed out d-ring on same pump.

Rigs

Contractor	Rig #	Start Date	RR Date	Rig Type
CDK PERFORATING (NINE ENERGY)		10/26/2017 06:01		WIRELINE
PIONEER PUMPING SERVICES	BULLPEN	10/26/2017 06:01		FRAC FLEET
PIONEER PUMPING SERVICES	4	10/26/2017 06:01		FRAC FLEET

<Supply Item Description?>, <Type?>

Total Received	Total Consumed	Total Returned

Perforations

Int #	Prop?	Type	Top (ftKB)	Btm (ftKB)	Btm - Top (ft)	Shot Dens (shots/ft)	Entered Shot Total	String Perforated	Com	Cluster #
3	No	CONVENTIONAL PERF	18,974.0	18,976.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		6
3	No	CONVENTIONAL PERF	19,014.0	19,016.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		5
3	No	CONVENTIONAL PERF	19,054.0	19,056.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		4
3	No	CONVENTIONAL PERF	19,094.0	19,096.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		3
3	No	CONVENTIONAL PERF	19,134.0	19,136.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		2
3	No	CONVENTIONAL PERF	19,174.0	19,176.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		1
2	No	CONVENTIONAL PERF	19,214.0	19,216.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		6
2	No	CONVENTIONAL PERF	19,254.0	19,256.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		5
2	No	CONVENTIONAL PERF	19,294.0	19,296.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		4
2	No	CONVENTIONAL PERF	19,334.0	19,336.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		3
2	No	CONVENTIONAL PERF	19,374.0	19,376.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		2
2	No	CONVENTIONAL PERF	19,414.0	19,416.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		1

Stimulations Summary

Stim/Treat Company	Diversion Company	Diversion Method	Start Date	End Date	Job
PIONEER PUMPING SERVICES		COMPOSITE PLUG	10/28/2017 02:30		OCM, 10/25/2017 06:00
Number of Treatment Intervals	Design Number of Treatment Intervals	Volume Clean Total (bbl)	Proppant Total (lb)		
3	42	32,748.00	1,806,697.0		

Stimulation Intervals

Frac Stage 2 on 10/28/2017 17:02

Proposed? No	Type HYDRAULIC FRACTURE	Date 10/28/2017	String (Deployment Method) PRODUCTION, 19,690.0ftKB	Top Depth (ftKB) 19,214.0	Bottom Depth (ftKB) 19,416.0
Post Job Frac Gradient (...) Pump Power Max (hp) 0.77	Proppant Designed (lb) 602,489.0	Proppant In Formation (lb) 602,489.0	Proppant In Wellbore (lb) 602,489.0	Clean Volume Design (bbl) 12,082.00	Total Clean Volume (bbl) 12,082.00
Open Wellhead (psi) 1,254.0	End of Job ISIP (psi) 3,254.0	Close Wellhead (psi) 2,672.0	Breakdown Pressure (psi) 4,225.0	Max Treating Pressure (...) 8,292.0	Avg Treating Pressure (...) 8,292.0
				Max Slurry Rate (bbl/min) 87.6	Avg Slurry Rate (bbl/min) 87

Comment

Name = STAGE 2, Stage Count = 6

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)
OPEN WELLHEAD	10/28/2017 17:02	10/28/2017 17:03						
ACID SPEARHEAD	10/28/2017 17:03	10/28/2017 17:12	24.00	24.00				
PAD	10/28/2017 17:12	10/28/2017 17:29	534.00	558.00				

PIONEER

NATURAL RESOURCES

UNIVERSITY 7-43 113H

Job: OCM

Report Date: 10/29/2017

Report #: 4

AFE #: 043124

Total AFE + Sup: \$5,296,678.00

Cum Field Estimate: \$685,808.38

Daily Field Estimate: \$220,006.28

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)
CLOSE WELLHEAD	10/28/2017 17:29	10/28/2017 17:38		558.00				
OPEN WELLHEAD	10/28/2017 17:38	10/28/2017 17:39		558.00				
PAD	10/28/2017 17:39	10/28/2017 17:59	1,859.00	2,417.00				
SLURRY	10/28/2017 17:59	10/28/2017 18:05	476.00	2,893.00	OTHER, 100 Mesh	0.50	9,572.0	9,572.0
SLURRY	10/28/2017 18:05	10/28/2017 18:11	524.00	3,417.00	OTHER, 100 Mesh	0.75	16,296.0	25,868.0
SLURRY	10/28/2017 18:11	10/28/2017 18:17	595.00	4,012.00	OTHER, 100 Mesh	1.00	24,488.0	50,356.0
SLURRY	10/28/2017 18:17	10/28/2017 18:25	603.00	4,615.00	OTHER, 100 Mesh	1.25	31,036.0	81,392.0
SLURRY	10/28/2017 18:25	10/28/2017 18:32	619.00	5,234.00	BROWN, 40/70	0.75	19,521.0	100,913.0
SLURRY	10/28/2017 18:32	10/28/2017 18:40	714.00	5,948.00	BROWN, 40/70	1.00	30,511.0	131,424.0
SLURRY	10/28/2017 18:40	10/28/2017 18:50	857.00	6,805.00	BROWN, 40/70	1.50	53,148.0	184,572.0
SLURRY	10/28/2017 18:50	10/28/2017 19:01	962.00	7,767.00	BROWN, 40/70	2.00	81,056.0	265,628.0
SLURRY	10/28/2017 19:01	10/28/2017 19:11	738.00	8,505.00	BROWN, 30/50	2.00	61,316.0	326,944.0
SLURRY	10/28/2017 19:11	10/28/2017 19:21	810.00	9,315.00	BROWN, 30/50	2.50	79,558.0	406,502.0
SLURRY	10/28/2017 19:21	10/28/2017 19:33	944.00	10,259.00	BROWN, 30/50	3.00	98,307.0	504,809.0
SLURRY	10/28/2017 19:33	10/28/2017 19:42	736.00	10,995.00	BROWN, 30/50	3.50	97,680.0	602,489.0
FLUSH	10/28/2017 19:42	10/28/2017 19:51	531.00	11,526.00				602,489.0
CLOSE WELLHEAD	10/28/2017 19:51	10/28/2017 19:51		11,526.00				602,489.0
PUMP DOWN	10/28/2017 20:55	10/28/2017 21:10	556.00	12,082.00				602,489.0

Proppants

Type	Des	Sand Size
BROWN	BULK SAND	40/70
BROWN	BULK SAND	30/50
OTHER	BULK SAND	100 Mesh

Frac Stage 3 on 10/29/2017 01:46

Proposed? No	Type HYDRAULIC FRACTURE	Date 10/29/2017	String (Deployment Method) PRODUCTION, 19,690.0ftKB			Top Depth (ftKB) 18,974.0	Bottom Depth (ftKB) 19,176.0
Post Job Frac Gradient (...) Pump Power Max (hp) 0.78		Proppant Designed (lb)	Proppant In Formation (lb) 600,434.0	Proppant In Wellbore (lb)	Proppant Total (lb) 600,434.0	Clean Volume Design (bbl)	Total Clean Volume (bbl) 10,313.00
Open Wellhead (psi) 1,818.0	End of Job ISIP (psi) 3,268.0	Close Wellhead (psi) 2,929.0	Breakdown Pressure (psi) 4,653.0	Max Treating Pressure (...) 8,884.0	Avg Treating Pressure (...) 7,738.0	Max Slurry Rate (bbl/min) 91.5	Avg Slurry Rate (bbl/min) 83

Comment  
Name = STAGE 3, Stage Count = 5

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)
OPEN WELLHEAD	10/29/2017 01:46	10/29/2017 01:48						
ACID SPEARHEAD	10/29/2017 01:48	10/29/2017 01:53	24.00	24.00				
PAD	10/29/2017 01:53	10/29/2017 02:16	1,452.00	1,476.00				
SLURRY	10/29/2017 02:16	10/29/2017 02:21	476.00	1,952.00	OTHER, 100 Mesh	0.50	10,425.0	10,425.0
SLURRY	10/29/2017 02:21	10/29/2017 02:27	524.00	2,476.00	OTHER, 100 Mesh	0.75	16,945.0	27,370.0
SLURRY	10/29/2017 02:27	10/29/2017 02:34	595.00	3,071.00	OTHER, 100 Mesh	1.00	25,623.0	52,993.0
SLURRY	10/29/2017 02:34	10/29/2017 02:40	524.00	3,595.00	OTHER, 100 Mesh	1.25	27,145.0	80,138.0
SLURRY	10/29/2017 02:40	10/29/2017 02:48	619.00	4,214.00	BROWN, 40/70	0.75	20,147.0	100,285.0
SLURRY	10/29/2017 02:48	10/29/2017 02:56	714.00	4,928.00	BROWN, 40/70	1.00	31,998.0	132,283.0
SLURRY	10/29/2017 02:56	10/29/2017 03:06	857.00	5,785.00	BROWN, 40/70	1.50	53,106.0	185,389.0
SLURRY	10/29/2017 03:06	10/29/2017 03:18	971.00	6,756.00	BROWN, 40/70	2.00	77,384.0	262,773.0
SLURRY	10/29/2017 03:18	10/29/2017 03:27	738.00	7,494.00	BROWN, 30/50	2.00	62,166.0	324,939.0
SLURRY	10/29/2017 03:27	10/29/2017 03:39	810.00	8,304.00	BROWN, 30/50	2.50	85,275.0	410,214.0
SLURRY	10/29/2017 03:39	10/29/2017 03:52	881.00	9,185.00	BROWN, 30/50	3.00	110,018.0	520,232.0
SLURRY	10/29/2017 03:52	10/29/2017 04:00	602.00	9,787.00	BROWN, 30/50	3.50	80,202.0	600,434.0
FLUSH	10/29/2017 04:00	10/29/2017 04:09	526.00	10,313.00				600,434.0
CLOSE WELLHEAD	10/29/2017 04:09	10/29/2017 04:09		10,313.00				600,434.0

Proppants

Type	Des	Sand Size
BROWN	BULK SAND	40/70
BROWN	BULK SAND	30/50
OTHER	BULK SAND	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	10/28/2017 06:34	4.38	19,436.0	19,438.0			
No	Yes	FRAC PLUG	10/28/2017 21:10	4.38	19,196.0	19,198.0			



PIONEER

NATURAL RESOURCES

UNIVERSITY 7-43 113H

FRAC FLEET / CREW #

Contractor

PIONEER PUMPING SERVICES

Rig #

BULL PEN

Job:

Report Date:

Report #:

AFE #:

Total AFE + Sup:

Cum Field Estimate:

Daily Field Estimate:

OCM

10/30/2017

5

043124

\$5,296,678.00

\$1,004,754.81

\$318,325.18

SSN

ID00003144

API/UWI

42-003-47567-0000

Property Sub

927638-113

Field Name

SPRABERRY (TREND AREA)

Open Formation

LOWER SPRABERRY SHALE (SPBY L C1)

Spud Date

8/30/2017

TD (max) (ftKB)

19,705.0

Job Category

ORIG COMPLETION

Primary Job Type

OCM

Start Date

10/25/2017

End Date

Job Status

AFE APPROVED

Responsible Grp 2

STIM ENG - JOSH MEASLES

Job Dates

Date

Type

MILESTONE

Subtype

TURN OVER TO PRODUCTION

Note

Date

10/28/2017

Type

MILESTONE

Subtype

READY TO START (RTS)

Note

Date

11/8/2017

Type

PLAN

Subtype

STIMULATION END

Note

Safety Checks

Time

Type

Des

Tour

Com

06:01

MEETING

PRE-TOUR

DAY

Held safety meeting with PPS-4 and all third party vendors. Discussed safety awareness and job duties.

18:00

MEETING

PRE-TOUR

NIGHT

Held safety meeting with PPS-4 and all third party vendors. Discussed safety awareness and job duties.

Daily Contacts on Location

Contact Name

Title

Tour

Mobile

Alt Mobile #

Note

NECAISE, KEVIN

SUPERINTENDE NT

MEASLES, JOSH

ENGINEER

432-214-3508

TRAYLOR, KENDALL

FOREMAN

DAY

806-440-2670

MILLS, ASHLEY

ENGINEER

DAY

432-214-6782

GREENE, MITCH

ENGINEER

DAY

432-894-7612

CHAIDEZ, OSCAR

FOREMAN

NIGHT

432-413-0513

VILLANUEVA, FELIX

FOREMAN

NIGHT

432-413-9779

BROWN, PERRY

FOREMAN

DAY

832-690-7101

STEPHENS, BOBBY

FOREMAN

DAY

940-521-6335

Personnel Log

Company

Count

NINE ENERGY SERVICE INC

8

PNR PUMPING SERVICES LLC

24

LIFT CRANE SERVICE LLC

4

NEW WAVE WATER TRANSFER

8

PNR PUMPING SERVICES LLC

7

TETRA TECHNOLOGIES INC

4

Daily Operations

Operations at Report Time

WL stage 8

Daily Goal Description

STAGES PER DAY

Daily Goal - Last 24

3.0

Operations Summary

Below Grade Cellars

Frac Stage(s) 4,5,6,7

P/P Stage(s) 4,5,6,7

Operations Next Report Period

STIM OPS

Remarks

NO ACCIDENTES OR INCIDENTS

Time Log

Start Time

06:00

End Time

06:46

Dur (hr)

0.77

Phase

STIM, OPS

Activity

WIRELINE

Operation

WL\_RUNUP

Com

Set Plug @ 18,956'

Ops Category

NORMAL

Prob Ref #

Prob Hrs (hr)

Frac Stage

06:46

07:10

0.4

STIM, OPS

NONOPS

PAD

WO offset wells

NORMAL

07:10

07:50

0.67

STIM, OPS

SWAPOVER

SWAP\_FRAC

Swap Frac

NORMAL

07:50

10:15

2.42

STIM, OPS

FRAC

STIM

Frac Stage 4 - Pumped as designed

NORMAL

4

10:15

10:30

0.25

STIM, OPS

SWAPOVER

SWAP\_WL

Swap WL

NORMAL

10:30

11:53

1.38

STIM, OPS

WIRELINE

WL\_RUNDN

RIH

NORMAL

11:53

13:10

1.28

STIM, OPS

WIRELINE

WL\_RUNUP

POOH - Set Plug @ 18,723'

NORMAL

13:10

13:45

0.58

STIM, OPS

WIRELINE

WL\_MAINT

WL rehead

NORMAL

13:45

13:52

0.13

STIM, OPS

SWAPOVER

SWAP\_FRAC

Swap Frac

NORMAL

13:52

16:12

2.32

STIM, OPS

FRAC

STIM

Frac stage 5 - Pumped as designed

NORMAL

5

16:12

16:30

0.3

STIM, OPS

SWAPOVER

SWAP\_WL

Swap WL

NORMAL

16:30

17:19

0.83

STIM, OPS

WIRELINE

WL\_RUNDN

RIH

NORMAL

17:19

18:06

0.78

STIM, OPS

WIRELINE

WL\_RUNUP

POOH

NORMAL

18:06

19:10

1.06

STIM, OPS

WIRELINE

WL\_NONOPS

WL @ 200'

NORMAL

19:10

20:43

1.55

STIM, OPS

SWAPOVER

SWAP\_FRAC

Swap/Load & Test

NORMAL

9

1.08

20:43

22:57

2.23

STIM, OPS

FRAC

STIM

Frac Stage 6

NORMAL

6



PIONEER

NATURAL RESOURCES

UNIVERSITY 7-43 113H

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

OCM  
10/30/2017  
5  
043124  
\$5,296,678.00  
\$1,004,754.81  
\$318,325.18

FRAC FLEET / CREW #

Contractor

PIONEER PUMPING SERVICES

Rig #

4

Time Log

Start Time	End Time	Dur (hr)	Phase	Activity	Operation	Com	Ops Category	Prob Ref #	Prob Hrs (hr)	Frac Stage
22:57	23:27	0.5	STIM, OPS	SWAPOVER	SWAP_WL	Swap/Test lube to 9,000 psi	NORMAL			
23:27	00:15	0.8	STIM, OPS	WIRELINE	WL_RUNDN	RIH	NORMAL			
00:15	01:00	0.75	STIM, OPS	WIRELINE	WL_RUNUP	POOH	NORMAL			
01:00	02:00	1	STIM, OPS	WIRELINE	WL_NONOPS	WL @ 200'	NORMAL			
02:00	02:19	0.33	STIM, OPS	SWAPOVER	SWAP_FRAC	Swap/Test & load	NORMAL			
02:19	03:15	0.92	STIM, OPS	WIRELINE	WL_MAINT	WL Re-head	NORMAL			
03:15	05:30	2.25	STIM, OPS	FRAC	STIM	Frac Stage 7	NORMAL			7
05:30	06:00	0.5	STIM, OPS	SWAPOVER	SWAP_WL	Swap/Test lube to 9,000 psi	NORMAL			

Fluid Summary

Fluid	Cum to Well (bbl)	To well (bbl)	Cum from Well (bbl)	From well (bbl)	Left to recover (bbl)
WELL FLUID	77,595.0	42,590.0			77,595.0

Interval Problems

FRAC/STIMULATION MATERIAL, PROPPANT, LOGISTICS, 10/29/2017 19:15

Ref #	End Date	Dur (Net) (hr)	Excl...	Accountable Party	Est Cost (Cost)	Comment
9	10/29/2017 20:20	1.08	No	PNR PUMPING SERVICES LLC		Short on sand to start stage. Waiting on 3 30/50 trucks to offload.

Rigs

Contractor	Rig #	Start Date	RR Date	Rig Type
CDK PERFORATING (NINE ENERGY)		10/26/2017 06:01		WIRELINE
PIONEER PUMPING SERVICES	BULLPEN	10/26/2017 06:01		FRAC FLEET
PIONEER PUMPING SERVICES	4	10/26/2017 06:01		FRAC FLEET

DIESEL, FUEL

Total Received	Total Consumed	Total Returned
12,951.0	12,951.0	0.0

Perforations

Int #	Prop?	Type	Top (ftKB)	Btm (ftKB)	Btm - Top (ft)	Shot Dens (shots/ft)	Entered Shot Total	String Perforated	Com	Cluster #
7	No	CONVENTIONAL PERF	18,014.0	18,016.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		6
7	No	CONVENTIONAL PERF	18,054.0	18,056.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		5
7	No	CONVENTIONAL PERF	18,094.0	18,096.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		4
7	No	CONVENTIONAL PERF	18,134.0	18,136.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		3
7	No	CONVENTIONAL PERF	18,174.0	18,176.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		2
7	No	CONVENTIONAL PERF	18,214.0	18,216.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		1
6	No	CONVENTIONAL PERF	18,254.0	18,256.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		6
6	No	CONVENTIONAL PERF	18,294.0	18,296.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		5
6	No	CONVENTIONAL PERF	18,334.0	18,336.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		4
6	No	CONVENTIONAL PERF	18,374.0	18,376.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		3
6	No	CONVENTIONAL PERF	18,414.0	18,416.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		2
6	No	CONVENTIONAL PERF	18,454.0	18,456.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		1
5	No	CONVENTIONAL PERF	18,494.0	18,496.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		6
5	No	CONVENTIONAL PERF	18,534.0	18,536.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		5
5	No	CONVENTIONAL PERF	18,574.0	18,576.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		4
5	No	CONVENTIONAL PERF	18,614.0	18,616.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		3
5	No	CONVENTIONAL PERF	18,654.0	18,656.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		2
5	No	CONVENTIONAL PERF	18,694.0	18,696.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		1

Stimulations Summary

Stim/Treat Company	Diversion Company	Diversion Method	Start Date	End Date	Job
PIONEER PUMPING SERVICES		COMPOSITE PLUG	10/28/2017 02:30		OCM, 10/25/2017 06:00

Number of Treatment Intervals	Design Number of Treatment Intervals	Volume Clean Total (bbl)	Proppant Total (lb)
7	42	75,755.00	4,206,835.0

PIONEER

NATURAL RESOURCES

UNIVERSITY 7-43 113H

Job:

Report Date:

Report #:

AFE #:

Total AFE + Sup:

Cum Field Estimate:

Daily Field Estimate:

OCM

10/30/2017

5

043124

\$5,296,678.00

\$1,004,754.81

\$318,325.18

Stimulation Intervals

Frac Stage 4 on 10/29/2017 07:49

Proposed? No	Type HYDRAULIC FRACTURE	Date 10/29/2017	String (Deployment Method) PRODUCTION, 19,690.0ftKB			Top Depth (ftKB) 18,734.0	Bottom Depth (ftKB) 18,936.0
Post Job Frac Gradient (...) Pump Power Max (hp) 0.63		Proppant Designed (lb)	Proppant In Formation (lb) 601,893.0	Proppant In Wellbore (lb)	Proppant Total (lb) 601,893.0	Clean Volume Design (bbl)	Total Clean Volume (bbl) 10,849.00
Open Wellhead (psi) 1,093.0	End of Job ISIP (psi) 1,897.0	Close Wellhead (psi) 2,820.0	Breakdown Pressure (psi) 5,346.0	Max Treating Pressure (...) 8,806.0	Avg Treating Pressure (...) 7,338.0	Max Slurry Rate (bbl/min) 91.2	Avg Slurry Rate (bbl/min) 90.3

Comment  
Name = STAGE 4, Stage Count = 4

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)
OPEN WELLHEAD		10/29/2017 07:51						
ACID SPEARHEAD	10/29/2017 07:51	10/29/2017 07:58	24.00	24.00				
PAD	10/29/2017 07:58	10/29/2017 08:20	1,452.00	1,476.00				
SLURRY	10/29/2017 08:20	10/29/2017 08:27	476.00	1,952.00	BROWN SAND, 100 Mesh	0.50	9,433.0	9,433.0
SLURRY	10/29/2017 08:27	10/29/2020 08:35	524.00	2,476.00	BROWN SAND, 100 Mesh	0.75	16,320.0	25,753.0
SLURRY	10/29/2017 08:35	10/29/2017 08:41	595.00	3,071.00	BROWN SAND, 100 Mesh	1.00	25,285.0	51,038.0
SLURRY	10/29/2017 08:41	10/29/2017 08:47	578.00	3,649.00	BROWN SAND, 100 Mesh	1.25	30,482.0	81,520.0
SLURRY	10/29/2017 08:47	10/29/2017 08:53	619.00	4,268.00	BROWN, 40/70	0.75	19,200.0	100,720.0
SLURRY	10/29/2017 08:53	10/29/2017 09:02	714.00	4,982.00	BROWN, 40/70	1.00	28,411.0	129,131.0
SLURRY	10/29/2017 09:02	10/29/2017 09:12	857.00	5,839.00	BROWN, 40/70	1.50	53,097.0	182,228.0
SLURRY	10/29/2017 09:12	10/29/2017 09:24	963.00	6,802.00	BROWN, 40/70	2.00	81,516.0	263,744.0
SLURRY	10/29/2017 09:24	10/29/2017 09:33	738.00	7,540.00	BROWN, 30/50	2.00	61,624.0	325,368.0
SLURRY	10/29/2017 09:33	10/29/2017 09:43	810.00	8,350.00	BROWN, 30/50	2.50	84,464.0	409,832.0
SLURRY	10/29/2017 09:43	10/29/2017 09:54	881.00	9,231.00	BROWN, 30/50	3.00	113,176.0	523,008.0
SLURRY	10/29/2017 09:54	10/29/2017 10:02	593.00	9,824.00	BROWN, 30/50	3.50	78,885.0	601,893.0
FLUSH	10/29/2017 10:02	10/29/2017 10:10	520.00	10,344.00				601,893.0
CLOSE WELLHEAD	10/29/2017 10:10	10/29/2017 10:10		10,344.00				601,893.0
PUMP DOWN	10/29/2017 10:57	10/29/2017 11:23	505.00	10,849.00				601,893.0

Proppants

Type	Des	Sand Size
BROWN	BULK SAND	40/70
BROWN	BULK SAND	30/50
BROWN SAND	BULK SAND	100 Mesh

Frac Stage 5 on 10/29/2017 13:50

Proposed? No	Type HYDRAULIC FRACTURE	Date 10/29/2017	String (Deployment Method) PRODUCTION, 19,690.0ftKB			Top Depth (ftKB) 18,494.0	Bottom Depth (ftKB) 18,696.0
Post Job Frac Gradient (...) Pump Power Max (hp) 0.72		Proppant Designed (lb)	Proppant In Formation (lb) 602,660.0	Proppant In Wellbore (lb)	Proppant Total (lb) 602,660.0	Clean Volume Design (bbl)	Total Clean Volume (bbl) 10,830.00
Open Wellhead (psi) 1,343.0	End of Job ISIP (psi) 2,788.0	Close Wellhead (psi) 2,709.0	Breakdown Pressure (psi) 5,257.0	Max Treating Pressure (...) 8,914.0	Avg Treating Pressure (...) 7,685.0	Max Slurry Rate (bbl/min) 90.7	Avg Slurry Rate (bbl/min) 90.1

Comment  
Name = STAGE 5, Stage Count = 4

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)
OPEN WELLHEAD	10/29/2017 13:50	10/29/2017 13:52						
ACID SPEARHEAD	10/29/2017 13:52	10/29/2017 13:57	24.00	24.00				
PAD	10/29/2017 13:57	10/29/2017 14:21	1,452.00	1,476.00				
SLURRY	10/29/2017 14:21	10/29/2017 14:26	476.00	1,952.00	BROWN SAND, 100 Mesh	0.50	9,460.0	9,460.0
SLURRY	10/29/2017 14:26	10/29/2017 14:33	524.00	2,476.00	BROWN SAND, 100 Mesh	0.75	16,350.0	25,810.0
SLURRY	10/29/2017 14:33	10/29/2017 14:39	595.00	3,071.00	BROWN SAND, 100 Mesh	1.00	24,880.0	50,690.0
SLURRY	10/29/2017 14:39	10/29/2017 14:46	577.00	3,648.00	BROWN SAND, 100 Mesh	1.25	30,212.0	80,902.0
SLURRY	10/29/2017 14:46	10/29/2017 14:53	619.00	4,267.00	BROWN, 40/70	0.75	20,032.0	100,934.0
SLURRY	10/29/2017 14:53	10/29/2017 15:02	714.00	4,981.00	BROWN, 40/70	1.00	29,727.0	130,661.0
SLURRY	10/29/2017 15:02	10/29/2017 15:12	857.00	5,838.00	BROWN, 40/70	1.50	51,288.0	181,949.0
SLURRY	10/29/2017 15:12	10/29/2017 15:24	976.00	6,814.00	BROWN, 40/70	2.00	81,506.0	263,455.0
SLURRY	10/29/2017 15:24	10/29/2017 15:33	738.00	7,552.00	BROWN, 30/50	2.00	62,134.0	325,589.0
SLURRY	10/29/2017 15:33	10/29/2017 15:43	810.00	8,362.00	BROWN, 30/50	2.50	84,748.0	410,337.0
SLURRY	10/29/2017 15:43	10/29/2017 15:54	881.00	9,243.00	BROWN, 30/50	3.00	113,084.0	523,421.0
SLURRY	10/29/2017 15:54	10/29/2017 16:01	607.00	9,850.00	BROWN, 30/50	3.50	79,239.0	602,660.0
FLUSH	10/29/2017 16:01	10/29/2017 16:10	515.00	10,365.00				602,660.0
CLOSE WELLHEAD	10/29/2017 16:10	10/29/2017 16:10		10,365.00				602,660.0
PUMP DOWN	10/29/2017 17:00	10/29/2017 17:20	465.00	10,830.00				602,660.0

Proppants

Type	Des	Sand Size
BROWN	BULK SAND	40/70
BROWN	BULK SAND	30/50
BROWN SAND	BULK SAND	100 Mesh

PIONEER

NATURAL RESOURCES

UNIVERSITY 7-43 113H

Job:

Report Date:

Report #:

AFE #:

Total AFE + Sup:

Cum Field Estimate:

Daily Field Estimate:

OCM

10/30/2017

5

043124

\$5,296,678.00

\$1,004,754.81

\$318,325.18

Stimulation Intervals

Frac Stage 6 on 10/29/2017 20:43

Proposed? No	Type HYDRAULIC FRACTURE	Date 10/29/2017	String (Deployment Method) PRODUCTION, 19,690.0ftKB			Top Depth (ftKB) 18,254.0	Bottom Depth (ftKB) 18,456.0
Post Job Frac Gradient (...) Pump Power Max (hp) 0.75		Proppant Designed (lb)	Proppant In Formation (lb) 602,446.6	Proppant In Wellbore (lb)	Proppant Total (lb) 599,097.0	Clean Volume Design (bbl)	Total Clean Volume (bbl) 10,639.00
Open Wellhead (psi) 949.0	End of Job ISIP (psi) 3,015.0	Close Wellhead (psi) 2,835.0	Breakdown Pressure (psi) 5,208.0	Max Treating Pressure (...) 8,841.0	Avg Treating Pressure (...) 7,359.0	Max Slurry Rate (bbl/min) 90.9	Avg Slurry Rate (bbl/min) 90.4

Comment  
Name = STAGE 6, Stage Count = 5

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)
OPEN WELLHEAD	10/29/2017 20:43	10/29/2017 20:44						
ACID SPEARHEAD	10/29/2017 20:44	10/29/2017 20:47	24.00	24.00				
PAD	10/29/2017 20:47	10/29/2017 21:11	1,452.00	1,476.00				
SLURRY	10/29/2017 21:11	10/29/2017 21:17	476.00	1,952.00	OTHER, 100 Mesh	0.50	10,766.0	10,766.0
SLURRY	10/29/2017 21:17	10/29/2017 21:23	524.00	2,476.00	OTHER, 100 Mesh	0.75	15,771.0	26,537.0
SLURRY	10/29/2017 21:23	10/29/2017 21:30	595.00	3,071.00	OTHER, 100 Mesh	1.00	27,227.0	53,764.0
SLURRY	10/29/2017 21:30	10/29/2017 21:36	518.00	3,589.00	OTHER, 100 Mesh	1.25	27,653.0	81,417.0
SLURRY	10/29/2017 21:36	10/29/2017 21:43	619.00	4,208.00	BROWN, 40/70	0.75	20,608.0	102,025.0
SLURRY	10/29/2017 21:43	10/29/2017 21:52	714.00	4,922.00	BROWN, 40/70	1.00	31,518.0	133,543.0
SLURRY	10/29/2017 21:52	10/29/2017 22:01	857.00	5,779.00	BROWN, 40/70	1.50	53,754.0	187,297.0
SLURRY	10/29/2017 22:01	10/29/2017 22:13	928.00	6,707.00	BROWN, 40/70	2.00	76,956.0	264,253.0
SLURRY	10/29/2017 22:13	10/29/2017 22:22	738.00	7,445.00	BROWN, 30/50	2.00	62,853.0	327,106.0
SLURRY	10/29/2017 22:22	10/29/2017 22:32	810.00	8,255.00	BROWN, 30/50	2.50	85,294.0	412,400.0
SLURRY	10/29/2017 22:32	10/29/2017 22:43	881.00	9,136.00	BROWN, 30/50	3.00	109,610.0	522,010.0
SLURRY	10/29/2017 22:43	10/29/2017 22:50	553.00	9,689.00	BROWN, 30/50	3.50	77,087.0	599,097.0
FLUSH	10/29/2017 22:50	10/29/2017 22:57	510.00	10,199.00				599,097.0
CLOSE WELLHEAD	10/29/2017 22:57	10/29/2017 22:57		10,199.00				599,097.0
PUMP DOWN	10/29/2017 23:55	10/30/2017 00:15	440.00	10,639.00				599,097.0

Proppants

Type	Des	Sand Size
BROWN	BULK SAND	40/70
BROWN	BULK SAND	30/50
OTHER	BULK SAND	100 Mesh

Frac Stage 7 on 10/30/2017 03:13

Proposed? No	Type HYDRAULIC FRACTURE	Date 10/30/2017	String (Deployment Method)			Top Depth (ftKB) 18,014.0	Bottom Depth (ftKB) 18,216.0
Post Job Frac Gradient (...) Pump Power Max (hp) 0.76		Proppant Designed (lb)	Proppant In Formation (lb) 596,488.0	Proppant In Wellbore (lb)	Proppant Total (lb) 596,488.0	Clean Volume Design (bbl)	Total Clean Volume (bbl) 10,192.00
Open Wellhead (psi) 897.0	End of Job ISIP (psi) 3,109.0	Close Wellhead (psi) 2,810.0	Breakdown Pressure (psi) 4,024.0	Max Treating Pressure (...) 8,426.0	Avg Treating Pressure (...) 7,080.0	Max Slurry Rate (bbl/min) 91	Avg Slurry Rate (bbl/min) 90.2

Comment  
Name = STAGE 7, Stage Count = 4

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)
OPEN WELLHEAD	10/30/2017 03:13	10/30/2017 03:16						
ACID SPEARHEAD	10/30/2017 03:16	10/30/2017 03:19	24.00	24.00				
PAD	10/30/2017 03:19	10/30/2017 03:42	1,452.00	1,476.00				
SLURRY	10/30/2017 03:42	10/30/2017 03:47	476.00	1,952.00	BROWN SAND, 100 Mesh	0.50	11,156.0	11,156.0
SLURRY	10/30/2017 03:47	10/30/2017 03:53	524.00	2,476.00	BROWN SAND, 100 Mesh	0.75	15,827.0	26,983.0
SLURRY	10/30/2017 03:53	10/30/2017 04:00	595.00	3,071.00	BROWN SAND, 100 Mesh	1.00	25,791.0	52,774.0
SLURRY	10/30/2017 04:00	10/30/2017 04:06	524.00	3,595.00	BROWN SAND, 100 Mesh	1.25	29,135.0	81,909.0
SLURRY	10/30/2017 04:06	10/30/2017 04:14	619.00	4,214.00	BROWN, 40/70	0.75	20,834.0	102,743.0
SLURRY	10/30/2017 04:14	10/30/2017 04:22	714.00	4,928.00	BROWN, 40/70	1.00	30,746.0	133,489.0
SLURRY	10/30/2017 04:22	10/30/2017 04:33	857.00	5,785.00	BROWN, 40/70	1.50	52,864.0	186,353.0
SLURRY	10/30/2017 04:33	10/30/2017 04:43	914.00	6,699.00	BROWN, 40/70	2.00	79,042.0	265,395.0
SLURRY	10/30/2017 04:43	10/30/2017 04:52	738.00	7,437.00	BROWN, 30/50	2.00	65,672.0	331,067.0
SLURRY	10/30/2017 04:52	10/30/2017 05:03	810.00	8,247.00	BROWN, 30/50	2.50	84,858.0	415,925.0
SLURRY	10/30/2017 05:03	10/30/2017 05:14	881.00	9,128.00	BROWN, 30/50	3.00	112,817.0	528,742.0
SLURRY	10/30/2017 05:14	10/30/2017 05:21	559.00	9,687.00	BROWN, 30/50	3.50	67,746.0	596,488.0
FLUSH	10/30/2017 05:21	10/30/2017 05:28	505.00	10,192.00				596,488.0
CLOSE WELLHEAD	10/30/2017 05:28	10/30/2017 05:28		10,192.00				596,488.0

Proppants

Type	Des	Sand Size
BROWN	BULK SAND	40/70
BROWN	BULK SAND	30/50
BROWN SAND	BULK SAND	100 Mesh

PIONEER  
NATURAL RESOURCES

UNIVERSITY 7-43 113H

Job: OCM

Report Date: 10/30/2017

Report #: 5

AFE #: 043124

Total AFE + Sup: \$5,296,678.00

Cum Field Estimate: \$1,004,754.81

Daily Field Estimate: \$318,325.18

Other In Hole

Prop Run?	Prop Pull?	Des	Run Date	OD (in)	Top (ftKB)	Btm (ftKB)	Pull Date	Plug Drill Out Duration (min)	Com
Yes	Yes	FRAC PLUG	10/29/2017 11:22	4.38	18,723.0	18,725.0			
No	Yes	FRAC PLUG	10/29/2017 17:20	4.38	18,476.0	18,478.0			
No	Yes	FRAC PLUG	10/30/2017 00:15	4.38	18,230.0	18,232.0			

PIONEER

NATURAL RESOURCES

UNIVERSITY 7-43 113H

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

OCM  
10/31/2017  
6  
043124  
\$5,296,678.00  
\$1,395,235.98  
\$307,417.00

SSN  
ID00003144

API/UWI  
42-003-47567-0000

Property Sub  
927638-113

Field Name  
SPRABERRY (TREND AREA)

Open Formation  
LOWER SPRABERRY SHALE  
(SPBY L C1)

Spud Date  
8/30/2017

TD (max) (ftKB)  
19,705.0

Job Category  
ORIG COMPLETION

Primary Job Type  
OCM

Start Date  
10/25/2017

End Date

Job Status  
AFE APPROVED

Responsible Grp 2  
STIM ENG - JOSH MEASLES

Job Dates

Date

Type  
MILESTONE

Subtype  
TURN OVER TO PRODUCTION

Note

Date  
10/28/2017

Type  
MILESTONE

Subtype  
READY TO START (RTS)

Note

Date  
11/8/2017

Type  
PLAN

Subtype  
STIMULATION END

Note

Safety Checks

Time

Type

Des

Tour

Com

06:01

MEETING

PRE-TOUR

DAY

Held safety meeting with PPS-4 and all third party vendors. Discussed safety awareness and job duties.

18:00

MEETING

PRE-TOUR

NIGHT

Held safety meeting with PPS-4 and all third party vendors. Discussed safety awareness and job duties.

Daily Contacts on Location

Contact Name

Title

Tour

Mobile

Alt Mobile #

Note

NECAISE, KEVIN

SUPERINTENDE  
NT

MEASLES, JOSH

ENGINEER

432-214-3508

TRAYLOR, KENDALL

FOREMAN

DAY

806-440-2670

MILLS, ASHLEY

ENGINEER

DAY

432-214-6782

GREENE, MITCH

ENGINEER

DAY

432-894-7612

CHAIDEZ, OSCAR

FOREMAN

NIGHT

432-413-0513

VILLANUEVA, FELIX

FOREMAN

NIGHT

432-413-9779

BROWN, PERRY

FOREMAN

DAY

832-690-7101

STEPHENS, BOBBY

FOREMAN

DAY

940-521-6335

Personnel Log

Company

Count

NINE ENERGY SERVICE INC

8

PNR PUMPING SERVICES LLC

24

LIFT CRANE SERVICE LLC

4

NEW WAVE WATER TRANSFER

8

PNR PUMPING SERVICES LLC

7

TETRA TECHNOLOGIES INC

4

Daily Operations

Operations at Report Time  
Swap/RTF Stg 11

Daily Goal Description  
STAGES PER DAY

Daily Goal - Last 24  
3.0

Operations Summary  
Below Grade Cellars  
Frac Stage(s) 8,9,10  
P/P Stage(s) 8,9,10,11

Operations Next Report Period  
STIM OPS

Remarks  
NO ACCIDENTES 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

07:04

1.08

STIM, OPS

WIRELINE

WL\_RUNDN

RIH

NORMAL

07:04

07:58

0.9

STIM, OPS

WIRELINE

WL\_RUNUP

POOH, Set Plug @17,996

NORMAL

07:58

08:51

0.87

STIM, OPS

WIRELINE

WL\_NONOPS

WL 200'

NORMAL

08:51

09:51

1

STIM, OPS

SWAPOVER

SWAP\_FRAC

Swap Frac

NORMAL

10

0.47

09:51

12:16

2.42

STIM, OPS

FRAC

STIM

Frac Stage 8 - Pumped as designed

NORMAL

8

12:16

12:31

0.25

STIM, OPS

SWAPOVER

SWAP\_WL

Swap WL

NORMAL

12:31

13:22

0.85

STIM, OPS

WIRELINE

WL\_RUNDN

WL down - WL Misfire, Perforating guns 5,6 did not fire. Instructed to go ahead and frac stage 9.

NORMAL

13:22

14:31

1.15

STIM, OPS

WIRELINE

WL\_RUNUP

WL up

NORMAL

14:31

15:46

1.25

STIM, OPS

NONOPS

PAD

WO offset wells

NORMAL

15:46

16:31

0.75

STIM, OPS

SWAPOVER

SWAP\_FRAC

Swap Frac

NORMAL

16:31

20:47

4.27

STIM, OPS

FRAC

STIM

Frac Stage 9

NORMAL

11

1.37

9

20:47

21:00

0.22

STIM, OPS

SWAPOVER

SWAP\_WL

Swap/Test lube to 9,000 psi

NORMAL

21:00

21:47

0.78

STIM, OPS

WIRELINE

WL\_RUNDN

RIH

NORMAL

21:47

22:30

0.72

STIM, OPS

WIRELINE

WL\_RUNUP

POOH

NORMAL

22:30

00:00

1.5

STIM, OPS

WIRELINE

WL\_NONOPS

WL @ 200'

NORMAL

00:00

00:34

0.57

STIM, OPS

SWAPOVER

SWAP\_FRAC

Swap/Test & load

NORMAL







PIONEER

NATURAL RESOURCES

UNIVERSITY 7-43 113H

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

OCM  
10/31/2017  
6  
043124  
\$5,296,678.00  
\$1,395,235.98  
\$307,417.00

Perforations

Int #	Prop?	Type	Top (ftKB)	Btm (ftKB)	Btm - Top (ft)	Shot Dens (shots/ft)	Entered Shot Total	String Perforated	Com	Cluster #
9	No	CONVENTIONAL PERF	17,734.0	17,736.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		1
8	No	CONVENTIONAL PERF	17,774.0	17,776.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		6
8	No	CONVENTIONAL PERF	17,814.0	17,816.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		5
8	No	CONVENTIONAL PERF	17,854.0	17,856.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		4
8	No	CONVENTIONAL PERF	17,894.0	17,896.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		3
8	No	CONVENTIONAL PERF	17,934.0	17,936.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		2
8	No	CONVENTIONAL PERF	17,974.0	17,976.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		1

Stimulations Summary

Stim/Treat Company PIONEER PUMPING SERVICES		Diversion Company		Diversion Method COMPOSITE PLUG		Start Date 10/28/2017 02:30		End Date		Job OCM, 10/25/2017 06:00	
Number of Treatment Intervals 10		Design Number of Treatment Intervals 42		Volume Clean Total (bbl) 108,559.00				Proppant Total (lb) 6,013,815.0			

Stimulation Intervals

Frac Stage 8 on 10/30/2017 09:51

Proposed? No	Type HYDRAULIC FRACTURE	Date 10/30/2017		String (Deployment Method) PRODUCTION, 19,690.0ftKB			Top Depth (ftKB) 17,774.0		Bottom Depth (ftKB) 17,976.0			
Post Job Frac Gradient (...) 0.72		Pump Power Max (hp)		Proppant Designed (lb)		Proppant In Formation (lb) 602,476.0		Proppant In Wellbore (lb)		Proppant Total (lb) 602,476.0	Clean Volume Design (bbl)	Total Clean Volume (bbl) 10,551.00
Open Wellhead (psi) 1,123.0		End of Job ISIP (psi) 2,760.0		Close Wellhead (psi) 2,648.0		Breakdown Pressure (psi) 4,385.0		Max Treating Pressure (...) 8,626.0		Avg Treating Pressure (...) 7,051.0	Max Slurry Rate (bbl/min) 90.8	Avg Slurry Rate (bbl/min) 89.7

Comment  
Name = STAGE 8, Stage Count = 4

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)
OPEN WELLHEAD	10/30/2017 09:51	10/30/2017 09:53						
ACID SPEARHEAD	10/30/2017 09:53	10/30/2017 09:59	24.00	24.00				
PAD	10/30/2017 09:59	10/30/2017 10:21	1,452.00	1,476.00				
SLURRY	10/30/2017 10:21	10/30/2017 10:27	476.00	1,952.00	BROWN SAND, 100 Mesh	0.50	8,373.0	8,373.0
SLURRY	10/30/2017 10:27	10/30/2017 10:33	524.00	2,476.00	BROWN SAND, 100 Mesh	0.75	16,419.0	24,792.0
SLURRY	10/30/2017 10:33	10/30/2017 10:39	595.00	3,071.00	BROWN SAND, 100 Mesh	1.00	24,758.0	49,550.0
SLURRY	10/30/2017 10:39	10/30/2017 10:45	616.00	3,687.00	BROWN SAND, 100 Mesh	1.25	31,916.0	81,466.0
SLURRY	10/30/2017 10:45	10/30/2017 10:54	619.00	4,306.00	BROWN, 40/70	0.75	20,517.0	101,983.0
SLURRY	10/30/2017 10:54	10/30/2017 11:02	714.00	5,020.00	BROWN, 40/70	1.00	32,032.0	134,015.0
SLURRY	10/30/2017 11:02	10/30/2017 11:12	857.00	5,877.00	BROWN, 40/70	1.50	48,419.0	182,434.0
SLURRY	10/30/2017 11:12	10/30/2017 11:26	1,155.00	7,032.00	BROWN, 40/70	2.00	82,689.0	265,123.0
SLURRY	10/30/2017 11:26	10/30/2017 11:35	738.00	7,770.00	BROWN, 30/50	2.00	63,317.0	328,440.0
SLURRY	10/30/2017 11:35	10/30/2017 11:46	810.00	8,580.00	BROWN, 30/50	2.50	84,312.0	412,752.0
SLURRY	10/30/2017 11:46	10/30/2017 11:57	881.00	9,461.00	BROWN, 30/50	3.00	111,568.0	524,320.0
SLURRY	10/30/2017 11:57	10/30/2017 12:04	589.00	10,050.00	BROWN, 30/50	3.50	78,156.0	602,476.0
FLUSH	10/30/2017 12:04	10/30/2017 12:12	501.00	10,551.00				602,476.0
CLOSE WELLHEAD	10/30/2017 12:12	10/30/2017 12:12		10,551.00				602,476.0

Proppants

Type	Des	Sand Size
BROWN	BULK SAND	40/70
BROWN	BULK SAND	30/50
BROWN SAND	BULK SAND	100 Mesh

Frac Stage 9 on 10/30/2017 16:29

Proposed? No	Type HYDRAULIC FRACTURE	Date 10/30/2017		String (Deployment Method) PRODUCTION, 19,690.0ftKB			Top Depth (ftKB) 17,534.0		Bottom Depth (ftKB) 17,736.0			
Post Job Frac Gradient (...) 0.75		Pump Power Max (hp)		Proppant Designed (lb)		Proppant In Formation (lb) 603,928.2		Proppant In Wellbore (lb)		Proppant Total (lb) 600,796.0	Clean Volume Design (bbl)	Total Clean Volume (bbl) 10,936.00
Open Wellhead (psi) 923.0		End of Job ISIP (psi) 3,027.0		Close Wellhead (psi) 2,747.0		Breakdown Pressure (psi) 6,416.0		Max Treating Pressure (...) 8,873.0		Avg Treating Pressure (...) 6,132.0	Max Slurry Rate (bbl/min) 90.8	Avg Slurry Rate (bbl/min) 86

Comment  
Name = STAGE 9, Stage Count = 5

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)
OPEN WELLHEAD	10/30/2017 16:29	10/30/2017 16:31						
ACID SPEARHEAD	10/30/2017 16:31	10/30/2017 16:37	24.00	24.00				
PAD	10/30/2017 16:37	10/30/2017 17:44	447.00	471.00				
CLOSE WELLHEAD	10/30/2017 17:44	10/30/2017 18:36		471.00				

PIONEER  
NATURAL RESOURCES

UNIVERSITY 7-43 113H

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

OCM  
10/31/2017  
6  
043124  
\$5,296,678.00  
\$1,395,235.98  
\$307,417.00

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)
OPEN WELLHEAD	10/30/2017 18:36	10/30/2017 18:37		471.00				
PAD	10/30/2017 18:37	10/30/2017 18:56	1,005.00	1,476.00				
SLURRY	10/30/2017 18:56	10/30/2017 19:02	476.00	1,952.00	OTHER, 100 Mesh	0.50	8,935.0	8,935.0
SLURRY	10/30/2017 19:02	10/30/2017 19:08	524.00	2,476.00	OTHER, 100 Mesh	0.75	15,749.0	24,684.0
SLURRY	10/30/2017 19:08	10/30/2017 19:14	595.00	3,071.00	OTHER, 100 Mesh	1.00	25,216.0	49,900.0
SLURRY	10/30/2017 19:14	10/30/2017 19:21	607.00	3,678.00	OTHER, 100 Mesh	1.25	32,438.0	82,338.0
SLURRY	10/30/2017 19:21	10/30/2017 19:28	619.00	4,297.00	BROWN, 40/70	0.75	17,124.0	99,462.0
SLURRY	10/30/2017 19:28	10/30/2017 19:37	714.00	5,011.00	BROWN, 40/70	1.00	30,191.0	129,653.0
SLURRY	10/30/2017 19:37	10/30/2017 19:48	857.00	5,868.00	BROWN, 40/70	1.50	50,980.0	180,633.0
SLURRY	10/30/2017 19:48	10/30/2017 20:00	1,035.00	6,903.00	BROWN, 40/70	2.00	83,091.0	263,724.0
SLURRY	10/30/2017 20:00	10/30/2017 20:10	738.00	7,641.00	BROWN, 30/50	2.00	62,347.0	326,071.0
SLURRY	10/30/2017 20:10	10/30/2017 20:20	810.00	8,451.00	BROWN, 30/50	2.50	84,721.0	410,792.0
SLURRY	10/30/2017 20:20	10/30/2017 20:31	944.00	9,395.00	BROWN, 30/50	3.00	109,722.0	520,514.0
SLURRY	10/30/2017 20:31	10/30/2017 20:39	614.00	10,009.00	BROWN, 30/50	3.50	80,282.0	600,796.0
FLUSH	10/30/2017 20:39	10/30/2017 20:46	493.00	10,502.00				600,796.0
CLOSE WELLHEAD	10/30/2017 20:46	10/30/2017 20:46		10,502.00				600,796.0
PUMP DOWN	10/30/2017 21:32	10/30/2017 21:47	434.00	10,936.00				600,796.0

Proppants		
Type	Des	Sand Size
BROWN	BULK SAND	40/70
BROWN	BULK SAND	30/50
OTHER	BULK SAND	100 Mesh

Frac Stage 10 on 10/31/2017 00:34							
Proposed? No	Type HYDRAULIC FRACTURE	Date 10/31/2017		String (Deployment Method) PRODUCTION, 19,690.0ftKB		Top Depth (ftKB) 17,294.0	Bottom Depth (ftKB) 17,496.0
Post Job Frac Gradient (...) Pump Power Max (hp) 0.77		Proppant Designed (lb)	Proppant In Formation (lb)	Proppant In Wellbore (lb)	Proppant Total (lb) 603,708.0	Clean Volume Design (bbl)	Total Clean Volume (bbl) 10,841.00
Open Wellhead (psi) 1,583.0		End of Job ISIP (psi) 3,177.0	Close Wellhead (psi) 3,065.0	Breakdown Pressure (psi) 3,958.0	Max Treating Pressure (...) 8,242.0	Avg Treating Pressure (...) 6,563.0	Max Slurry Rate (bbl/min) 90.3
Avg Slurry Rate (bbl/min) 90							

Comment  
Name = STAGE 10, Stage Count = 4

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)
OPEN WELLHEAD	10/31/2017 00:34	10/31/2017 00:35						
ACID SPEARHEAD	10/31/2017 00:35	10/31/2017 00:38	24.00	24.00				
PAD	10/31/2017 00:38	10/31/2017 01:02	1,452.00	1,476.00				
SLURRY	10/31/2017 01:02	10/31/2017 01:08	476.00	1,952.00	OTHER, 100 Mesh	0.50	8,886.0	8,886.0
SLURRY	10/31/2017 01:08	10/31/2017 01:13	524.00	2,476.00	OTHER, 100 Mesh	0.75	16,674.0	25,560.0
SLURRY	10/31/2017 01:13	10/31/2017 01:20	595.00	3,071.00	OTHER, 100 Mesh	1.00	24,861.0	50,421.0
SLURRY	10/31/2017 01:20	10/31/2017 01:27	605.00	3,676.00	OTHER, 100 Mesh	1.25	31,937.0	82,358.0
SLURRY	10/31/2017 01:27	10/31/2017 01:34	619.00	4,295.00	BROWN, 40/70	0.75	17,994.0	100,352.0
SLURRY	10/31/2017 01:34	10/31/2017 01:44	714.00	5,009.00	BROWN, 40/70	1.00	29,109.0	129,461.0
SLURRY	10/31/2017 01:44	10/31/2017 01:53	857.00	5,866.00	BROWN, 40/70	1.50	50,376.0	179,837.0
SLURRY	10/31/2017 01:53	10/31/2017 02:05	1,017.00	6,883.00	BROWN, 40/70	2.00	85,421.0	265,258.0
SLURRY	10/31/2017 02:05	10/31/2017 02:15	738.00	7,621.00	BROWN, 30/50	2.00	60,760.0	326,018.0
SLURRY	10/31/2017 02:15	10/31/2017 02:25	810.00	8,431.00	BROWN, 30/50	2.50	85,260.0	411,278.0
SLURRY	10/31/2017 02:25	10/31/2017 02:36	881.00	9,312.00	BROWN, 30/50	3.00	108,600.0	519,878.0
SLURRY	10/31/2017 02:36	10/31/2017 02:44	615.00	9,927.00	BROWN, 30/50	3.50	83,830.0	603,708.0
FLUSH	10/31/2017 02:44	10/31/2017 02:50	488.00	10,415.00				603,708.0
CLOSE WELLHEAD	10/31/2017 02:50	10/31/2017 02:50		10,415.00				603,708.0
PUMP DOWN	10/31/2017 03:48	10/31/2017 04:04	426.00	10,841.00				603,708.0

Proppants		
Type	Des	Sand Size
BROWN	BULK SAND	40/70
BROWN	BULK SAND	30/50
OTHER	BULK SAND	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	10/30/2017 06:53	4.38	17,996.0	17,998.0			
No	Yes	FRAC PLUG	10/30/2017 13:21	4.38	17,756.0	17,758.0			
No	Yes	FRAC PLUG	10/30/2017 21:47	4.38	17,516.0	17,518.0			
No	Yes	FRAC PLUG	10/31/2017 04:04	4.38	17,276.0	17,278.0			

<div>PIONEER NATURAL RESOURCES</div>			<div>UNIVERSITY 7-43 113H</div>			<div>Job: OCM Report Date: 11/1/2017 Report #: 7 AFE #: 043124 Total AFE + Sup: \$5,296,678.00 Cum Field Estimate: \$1,785,256.23 Daily Field Estimate: \$390,020.25</div>							
<div>FRAC FLEET / CREW #</div>													
Contractor				Rig #									
PIONEER PUMPING SERVICES				BULL PEN									
SSN ID00003144		API/UWI 42-003-47567-0000		Property Sub 927638-113		Field Name SPRABERRY (TREND AREA)		Open Formation LOWER SPRABERRY SHALE (SPBY L C1)		Spud Date 8/30/2017		TD (max) (ftKB) 19,705.0	
Job Category ORIG COMPLETION			Primary Job Type OCM		Start Date 10/25/2017		End Date		Job Status AFE APPROVED		Responsible Grp 2 STIM ENG - JOSH MEASLES		
Job Dates													
Date		Type MILESTONE			Subtype TURN OVER TO PRODUCTION				Note				
Date 10/28/2017		Type MILESTONE			Subtype READY TO START (RTS)				Note				
Date 11/8/2017		Type PLAN			Subtype STIMULATION END				Note				
Safety Checks													
Time		Type		Des		Tour		Com					
06:01		MEETING		PRE-TOUR		DAY		Held safety meeting with PPS-4 and all third party vendors. Discussed safety awareness and job duties.					
18:00		MEETING		PRE-TOUR		NIGHT		Held safety meeting with PPS-4 and all third party vendors. Discussed safety awareness and job duties.					
Daily Contacts on Location													
Contact Name				Title		Tour		Mobile		Alt Mobile #		Note	
NECAISE, KEVIN				SUPERINTENDE NT									
MEASLES, JOSH				ENGINEER				432-214-3508					
TRAYLOR, KENDALL				FOREMAN		DAY		806-440-2670					
MILLS, ASHLEY				ENGINEER		DAY		432-214-6782					
GREENE, MITCH				ENGINEER		DAY		432-894-7612					
CHAIDEZ, OSCAR				FOREMAN		NIGHT		432-413-0513					
VILLANUEVA, FELIX				FOREMAN		NIGHT		432-413-9779					
BROWN, PERRY				FOREMAN		DAY		832-690-7101					
STEPHENS, BOBBY				FOREMAN		DAY		940-521-6335					
Personnel Log													
Company										Count			
NINE ENERGY SERVICE INC										8			
PNR PUMPING SERVICES LLC										24			
LIFT CRANE SERVICE LLC										4			
NEW WAVE WATER TRANSFER										8			
PNR PUMPING SERVICES LLC										7			
TETRA TECHNOLOGIES INC										4			
Daily Operations													
Operations at Report Time WL @ 200'								Daily Goal Description STAGES PER DAY			Daily Goal - Last 24 4.0		
Operations Summary Below Grade Cellars Frac Stage(s) 11,12,13,14 P/P Stage(s) 12,13,14,15 NPT = 1 hr. Change flow tubes													
Operations Next Report Period STIM OPS													
Remarks NO ACCIDENTES 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	06:15	0.25	STIM, OPS	SWAPOVER	SWAP_FRAC	Swapover frac		NORMAL					
06:15	08:34	2.33	STIM, OPS	FRAC	STIM	Stage 11 - Pumped as designed		NORMAL			11		
08:34	10:03	1.47	STIM, OPS	SWAPOVER	SWAP_WL	Swap WL		NORMAL	12	0.97			
10:03	11:00	0.95	STIM, OPS	WIRELINE	WL_RUNDN	WL down, Set Plug @ 17,036		NORMAL					
11:00	11:40	0.67	STIM, OPS	WIRELINE	WL_RUNUP	WL up		NORMAL					
11:40	12:35	0.92	STIM, OPS	WIRELINE	WL_NONOPS	WL 200'		NORMAL					
12:35	13:03	0.47	STIM, OPS	SWAPOVER	SWAP_FRAC	Swap Frac		NORMAL					
13:03	15:42	2.65	STIM, OPS	FRAC	STIM	Stage 12 - Pumped as designed		NORMAL			12		
15:42	15:58	0.27	STIM, OPS	SWAPOVER	SWAP_WL	Swap WL		NORMAL					
15:58	16:42	0.72	STIM, OPS	WIRELINE	WL_RUNDN	WL down		NORMAL					
16:42	17:22	0.68	STIM, OPS	WIRELINE	WL_RUNUP	POOH		NORMAL					
17:22	18:25	1.05	STIM, OPS	WIRELINE	WL_NONOPS	WL @ 200'		NORMAL					
18:25	18:54	0.48	STIM, OPS	SWAPOVER	SWAP_FRAC	Swap/Load/Test		NORMAL					
18:54	21:15	2.35	STIM, OPS	FRAC	STIM	Frac Stage 13		NORMAL			13		
21:15	21:30	0.25	STIM, OPS	SWAPOVER	SWAP_WL	Swap/Test lube to 9,000 psi		NORMAL					

PIONEER

NATURAL RESOURCES

UNIVERSITY 7-43 113H

FRAC FLEET / CREW #

Contractor

PIONEER PUMPING SERVICES

Rig #

4

Job:

Report Date:

Report #:

AFE #:

Total AFE + Sup:

Cum Field Estimate:

Daily Field Estimate:

OCM

11/1/2017

7

043124

\$5,296,678.00

\$1,785,256.23

\$390,020.25

Time Log

Start Time	End Time	Dur (hr)	Phase	Activity	Operation	Com	Ops Category	Prob Ref #	Prob Hrs (hr)	Frac Stage
21:30	22:00	0.5	STIM, OPS	WIRELINE	WL_MAINT	WL Re-head	NORMAL			
22:00	22:44	0.73	STIM, OPS	WIRELINE	WL_RUNDN	RIH	NORMAL			
22:44	23:23	0.65	STIM, OPS	WIRELINE	WL_RUNUP	POOH	NORMAL			
23:23	00:35	1.2	STIM, OPS	WIRELINE	WL_NONOPS	WL @ 200'	NORMAL			
00:35	00:57	0.37	STIM, OPS	SWAPOVER	SWAP_FRAC	Swap/Load & Test	NORMAL			
00:57	03:13	2.27	STIM, OPS	FRAC	STIM	Frac Stage 14	NORMAL			14
03:13	03:35	0.36	STIM, OPS	SWAPOVER	SWAP_WL	Swap/Test lube to 9,000 psi	NORMAL			
03:35	04:16	0.68	STIM, OPS	WIRELINE	WL_RUNDN	RIH	NORMAL			
04:16	04:55	0.65	STIM, OPS	WIRELINE	WL_RUNUP	POOH	NORMAL			
04:55	06:00	1.08	STIM, OPS	WIRELINE	WL_NONOPS	WL @ 200'	NORMAL			

Fluid Summary

Fluid	Cum to Well (bbl)	To well (bbl)	Cum from Well (bbl)	From well (bbl)	Left to recover (bbl)
WELL FLUID	153,897.0	43,080.0			153,897.0

Interval Problems

WIRELINE, LUBRICATOR, GREASE TUBES, 10/31/2017 09:05

Ref #	End Date	Dur (Net) (hr)	Excl...	Accountable Party	Est Cost (Cost)	Comment
12	10/31/2017 10:03	0.97	No	PEAK PRESSURE CONTROL LLC		Changing out flow tubes,

Rigs

Contractor	Rig #	Start Date	RR Date	Rig Type
CDK PERFORATING (NINE ENERGY)		10/26/2017 06:01		WIRELINE
PIONEER PUMPING SERVICES	BULLPEN	10/26/2017 06:01		FRAC FLEET
PIONEER PUMPING SERVICES	4	10/26/2017 06:01		FRAC FLEET

DIESEL, FUEL

Total Received	Total Consumed	Total Returned
27,659.0	27,659.0	0.0

Job Supply Amounts

Date	Supply Item Des	Type	Received	Consumed	Returned	Cum Received	Cum Consumed	Cum Returned
10/31/2017 23:20	DIESEL	FUEL	2,106	2,106	0	15,057.0	15,057.0	0.0
10/31/2017 23:20	DIESEL	FUEL	2,097	2,097	0	17,154.0	17,154.0	0.0
10/31/2017 23:20	DIESEL	FUEL	2,300	2,300	0	19,454.0	19,454.0	0.0
10/31/2017 23:20	DIESEL	FUEL	2,023	2,023	0	21,477.0	21,477.0	0.0
10/31/2017 23:20	DIESEL	FUEL	2,080	2,080	0	23,557.0	23,557.0	0.0
10/31/2017 23:20	DIESEL	FUEL	2,103	2,103	0	25,660.0	25,660.0	0.0
10/31/2017 23:20	DIESEL	FUEL	1,999	1,999	0	27,659.0	27,659.0	0.0

Perforations

Int #	Prop?	Type	Top (ftKB)	Btm (ftKB)	Btm - Top (ft)	Shot Dens (shots/ft)	Entered Shot Total	String Perforated	Com	Cluster #
15	No	CONVENTIONAL PERF	16,094.0	16,096.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		6
15	No	CONVENTIONAL PERF	16,134.0	16,136.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		5
15	No	CONVENTIONAL PERF	16,174.0	16,176.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		4
15	No	CONVENTIONAL PERF	16,214.0	16,216.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		3
15	No	CONVENTIONAL PERF	16,254.0	16,256.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		2
15	No	CONVENTIONAL PERF	16,294.0	16,296.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		1
14	No	CONVENTIONAL PERF	16,334.0	16,336.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		6
14	No	CONVENTIONAL PERF	16,374.0	16,376.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		5
14	No	CONVENTIONAL PERF	16,414.0	16,416.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		4
14	No	CONVENTIONAL PERF	16,454.0	16,456.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		3
14	No	CONVENTIONAL PERF	16,494.0	16,496.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		2
14	No	CONVENTIONAL PERF	16,534.0	16,536.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		1
13	No	CONVENTIONAL PERF	16,574.0	16,576.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		6
13	No	CONVENTIONAL PERF	16,614.0	16,616.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		5
13	No	CONVENTIONAL PERF	16,654.0	16,656.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		4



PIONEER

NATURAL RESOURCES

UNIVERSITY 7-43 113H

Job:

Report Date:

Report #:

AFE #:

Total AFE + Sup:

Cum Field Estimate:

Daily Field Estimate:

OCM

11/1/2017

7

043124

\$5,296,678.00

\$1,785,256.23

\$390,020.25

Perforations

Int #	Prop?	Type	Top (ftKB)	Btm (ftKB)	Btm - Top (ft)	Shot Dens (shots/ft)	Entered Shot Total	String Perforated	Com	Cluster #
13	No	CONVENTIONAL PERF	16,694.0	16,696.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		3
13	No	CONVENTIONAL PERF	16,734.0	16,736.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		2
13	No	CONVENTIONAL PERF	16,774.0	16,776.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		1
12	No	CONVENTIONAL PERF	16,814.0	16,816.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		6
12	No	CONVENTIONAL PERF	16,854.0	16,856.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		5
12	No	CONVENTIONAL PERF	16,894.0	16,896.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		4
12	No	CONVENTIONAL PERF	16,934.0	16,936.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		3
12	No	CONVENTIONAL PERF	16,974.0	16,976.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		2
12	No	CONVENTIONAL PERF	17,014.0	17,016.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		1

Stimulations Summary

Stim/Treat Company PIONEER PUMPING SERVICES		Diversion Company		Diversion Method COMPOSITE PLUG		Start Date 10/28/2017 02:30		End Date		Job OCM, 10/25/2017 06:00	
Number of Treatment Intervals 14		Design Number of Treatment Intervals 42		Volume Clean Total (bbl) 151,735.00				Proppant Total (lb) 8,423,737.0			

Stimulation Intervals

Frac Stage 11 on 10/31/2017 06:13

Proposed? No		Type HYDRAULIC FRACTURE		Date 10/31/2017		String (Deployment Method) PRODUCTION, 19,690.0ftKB				Top Depth (ftKB) 17,054.0		Bottom Depth (ftKB) 17,256.0			
Post Job Frac Gradient (...) Pump Power Max (hp) 0.68				Proppant Designed (lb)		Proppant In Formation (lb) 605,102.0		Proppant In Wellbore (lb)		Proppant Total (lb) 605,102.0		Clean Volume Design (bbl)		Total Clean Volume (bbl) 10,965.00	
Open Wellhead (psi) 1,048.0		Final ISIP (psi) 2,322.0		Close Wellhead (psi) 2,158.0		Breakdown Pressure (psi) 3,861.0		Max Treating Pressure (...) 8,211.0		Avg Treating Pressure (...) 6,786.0		Max Slurry Rate (bbl/min) 90.4		Avg Slurry Rate (bbl/min) 89.8	
Comment Name = STAGE 11, Stage Count = 7															

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)
OPEN WELLHEAD	10/31/2017 06:13	10/31/2017 06:15						
ACID SPEARHEAD	10/31/2017 06:15	10/31/2017 06:20	24.00	24.00				
PAD	10/31/2017 06:20	10/31/2017 06:43	1,452.00	1,476.00				
SLURRY	10/31/2017 06:43	10/31/2017 06:49	476.00	1,952.00	BROWN SAND, 100 Mesh	0.50	8,454.0	8,454.0
SLURRY	10/31/2017 06:49	10/31/2017 06:55	524.00	2,476.00	BROWN SAND, 100 Mesh	0.75	15,996.0	24,450.0
SLURRY	10/31/2017 06:55	10/31/2017 07:01	595.00	3,071.00	BROWN SAND, 100 Mesh	1.00	25,980.0	50,430.0
SLURRY	10/31/2017 07:01	10/31/2017 07:09	663.00	3,734.00	BROWN SAND, 100 Mesh	1.25	31,506.0	81,936.0
SLURRY	10/31/2017 07:09	10/31/2017 07:16	619.00	4,353.00	BROWN, 40/70	0.75	19,105.0	101,041.0
SLURRY	10/31/2017 07:16	10/31/2017 07:25	714.00	5,067.00	BROWN, 40/70	1.00	27,936.0	128,977.0
SLURRY	10/31/2017 07:25	10/31/2017 07:35	857.00	5,924.00	BROWN, 40/70	1.50	52,491.0	181,468.0
SLURRY	10/31/2017 07:35	10/31/2017 07:47	973.00	6,897.00	BROWN, 40/70	2.00	81,714.0	263,182.0
SLURRY	10/31/2017 07:47	10/31/2017 07:56	738.00	7,635.00	BROWN, 30/50	2.00	61,416.0	324,598.0
SLURRY	10/31/2017 07:56	10/31/2017 08:06	810.00	8,445.00	BROWN, 30/50	2.50	87,053.0	411,651.0
SLURRY	10/31/2017 08:06	10/31/2017 08:18	881.00	9,326.00	BROWN, 30/50	3.00	110,118.0	521,769.0
SLURRY	10/31/2017 08:18	10/31/2017 08:27	772.00	10,098.00	BROWN, 30/50	3.50	83,333.0	605,102.0
FLUSH	10/31/2017 08:27	10/31/2017 08:35	482.00	10,580.00				605,102.0
CLOSE WELLHEAD	10/31/2017 08:35	10/31/2017 08:35		10,580.00				605,102.0
PUMP DOWN	10/31/2017 10:21	10/31/2017 10:47	385.00	10,965.00				605,102.0

Proppants

Type	Des	Sand Size
BROWN	BULK SAND	40/70
BROWN	BULK SAND	30/50
BROWN SAND	BULK SAND	100 Mesh

Frac Stage 12 on 10/31/2017 13:02

Proposed? No		Type HYDRAULIC FRACTURE		Date 10/31/2017		String (Deployment Method) PRODUCTION, 19,690.0ftKB				Top Depth (ftKB) 16,814.0		Bottom Depth (ftKB) 17,016.0			
Post Job Frac Gradient (...) Pump Power Max (hp) 0.71				Proppant Designed (lb)		Proppant In Formation (lb) 600,159.0		Proppant In Wellbore (lb)		Proppant Total (lb) 600,159.0		Clean Volume Design (bbl)		Total Clean Volume (bbl) 10,809.00	
Open Wellhead (psi) 852.0		Final ISIP (psi) 2,638.0		Close Wellhead (psi) 2,365.0		Breakdown Pressure (psi) 4,802.0		Max Treating Pressure (...) 8,901.0		Avg Treating Pressure (...) 6,860.0		Max Slurry Rate (bbl/min) 90.8		Avg Slurry Rate (bbl/min) 89.9	
Comment Name = STAGE 12, Stage Count = 6															

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)
OPEN WELLHEAD	10/31/2017 13:02	10/31/2017 13:04						

PIONEER  
NATURAL RESOURCES

UNIVERSITY 7-43 113H

Job: OCM  
Report Date: 11/1/2017  
Report #: 7  
AFE #: 043124  
Total AFE + Sup: \$5,296,678.00  
Cum Field Estimate: \$1,785,256.23  
Daily Field Estimate: \$390,020.25

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)
ACID SPEARHEAD	10/31/2017 13:04	10/31/2017 13:10	24.00	24.00				
PAD	10/31/2017 13:10	10/31/2017 13:53	1,452.00	1,476.00				
SLURRY	10/31/2017 13:53	10/31/2017 13:58	476.00	1,952.00	BROWN SAND, 100 Mesh	0.50	10,164.0	10,164.0
SLURRY	10/31/2017 13:58	10/31/2017 14:04	524.00	2,476.00	BROWN SAND, 100 Mesh	0.75	15,119.0	25,283.0
SLURRY	10/31/2017 14:04	10/31/2017 14:11	595.00	3,071.00	BROWN SAND, 100 Mesh	1.00	27,459.0	52,742.0
SLURRY	10/31/2017 14:11	10/31/2017 14:18	590.00	3,661.00	BROWN SAND, 100 Mesh	1.25	28,537.0	81,279.0
SLURRY	10/31/2017 14:18	10/31/2017 14:25	619.00	4,280.00	BROWN, 40/70	0.75	19,308.0	100,587.0
SLURRY	10/31/2017 14:25	10/31/2017 14:34	714.00	4,994.00	BROWN, 40/70	1.00	30,605.0	131,192.0
SLURRY	10/31/2017 14:34	10/31/2017 14:44	857.00	5,851.00	BROWN, 40/70	1.50	47,644.0	178,836.0
SLURRY	10/31/2017 14:44	10/31/2017 14:56	995.00	6,846.00	BROWN, 40/70	2.00	84,215.0	263,051.0
SLURRY	10/31/2017 14:56	10/31/2017 15:05	738.00	7,584.00	BROWN, 30/50	2.00	63,588.0	326,639.0
SLURRY	10/31/2017 15:05	10/31/2017 15:17	924.00	8,508.00	BROWN, 30/50	2.50	84,625.0	411,264.0
SLURRY	10/31/2017 15:17	10/31/2017 15:28	881.00	9,389.00	BROWN, 30/50	3.00	111,431.0	522,695.0
SLURRY	10/31/2017 15:28	10/31/2017 15:35	590.00	9,979.00	BROWN, 30/50	3.50	77,464.0	600,159.0
FLUSH	10/31/2017 15:35	10/31/2017 15:43	479.00	10,458.00				600,159.0
CLOSE WELLHEAD	10/31/2017 15:43	10/31/2017 15:43		10,458.00				600,159.0
PUMP DOWN	10/31/2017 16:21	10/31/2017 16:21	351.00	10,809.00				600,159.0

Type	Des	Sand Size
BROWN	BULK SAND	40/70
BROWN	BULK SAND	30/50
BROWN SAND	BULK SAND	100 Mesh

Frac Stage 13 on 10/31/2017 18:54

Proposed? No	Type HYDRAULIC FRACTURE	Date 10/31/2017	String (Deployment Method) PRODUCTION, 19,690.0ftKB			Top Depth (ftKB) 16,574.0	Bottom Depth (ftKB) 16,776.0
Post Job Frac Gradient (...) Pump Power Max (hp) 0.73		Proppant Designed (lb) 603,031.0	Proppant In Formation (lb) 603,031.0	Proppant In Wellbore (lb) 603,031.0	Proppant Total (lb) 603,031.0	Clean Volume Design (bbl)	Total Clean Volume (bbl) 10,719.00
Open Wellhead (psi) 929.0	Final ISIP (psi) 2,842.0	Close Wellhead (psi) 2,699.0	Breakdown Pressure (psi) 3,715.0	Max Treating Pressure (...) 8,592.0	Avg Treating Pressure (...) 6,451.0	Max Slurry Rate (bbl/min) 91	Avg Slurry Rate (bbl/min) 90

Comment  
Name = STAGE 13, Stage Count = 4

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)
OPEN WELLHEAD	10/31/2017 18:54	10/31/2017 18:57						
ACID SPEARHEAD	10/31/2017 18:57	10/31/2017 19:04	24.00	24.00				
PAD	10/31/2017 19:04	10/31/2017 19:26	1,452.00	1,476.00				
SLURRY	10/31/2017 19:26	10/31/2017 19:33	476.00	1,952.00	OTHER, 100 Mesh	0.50	10,627.0	10,627.0
SLURRY	10/31/2017 19:33	10/31/2017 19:38	524.00	2,476.00	OTHER, 100 Mesh	0.75	15,213.0	25,840.0
SLURRY	10/31/2017 19:38	10/31/2017 19:45	595.00	3,071.00	OTHER, 100 Mesh	1.00	24,357.0	50,197.0
SLURRY	10/31/2017 19:45	10/31/2017 19:52	596.00	3,667.00	OTHER, 100 Mesh	1.25	31,050.0	81,247.0
SLURRY	10/31/2017 19:52	10/31/2017 19:59	619.00	4,286.00	BROWN, 40/70	0.75	19,034.0	100,281.0
SLURRY	10/31/2017 19:59	10/31/2017 20:08	714.00	5,000.00	BROWN, 40/70	1.00	27,413.0	127,694.0
SLURRY	10/31/2017 20:08	10/31/2017 20:18	857.00	5,857.00	BROWN, 40/70	1.50	53,314.0	181,008.0
SLURRY	10/31/2017 20:18	10/31/2017 20:30	1,000.00	6,857.00	BROWN, 40/70	2.00	83,949.0	264,957.0
SLURRY	10/31/2017 20:30	10/31/2017 20:40	738.00	7,595.00	BROWN, 30/50	2.00	60,663.0	325,620.0
SLURRY	10/31/2017 20:40	10/31/2017 20:52	810.00	8,405.00	BROWN, 30/50	2.50	84,345.0	409,965.0
SLURRY	10/31/2017 20:52	10/31/2017 21:01	881.00	9,286.00	BROWN, 30/50	3.00	111,449.0	521,414.0
SLURRY	10/31/2017 21:01	10/31/2017 21:09	617.00	9,903.00	BROWN, 30/50	3.50	81,617.0	603,031.0
FLUSH	10/31/2017 21:09	10/31/2017 21:15	473.00	10,376.00				603,031.0
CLOSE WELLHEAD	10/31/2017 21:15	10/31/2017 21:15		10,376.00				603,031.0
PUMP DOWN	10/31/2017 22:30	10/31/2017 22:44	343.00	10,719.00				603,031.0

Type	Des	Sand Size
BROWN	BULK SAND	40/70
BROWN	BULK SAND	30/50
OTHER	BULK SAND	100 Mesh

Frac Stage 14 on 11/1/2017 00:57

Proposed? No	Type HYDRAULIC FRACTURE	Date 11/1/2017	String (Deployment Method) PRODUCTION, 19,690.0ftKB			Top Depth (ftKB) 16,334.0	Bottom Depth (ftKB) 16,536.0
Post Job Frac Gradient (...) Pump Power Max (hp) 0.76		Proppant Designed (lb) 601,630.0	Proppant In Formation (lb) 601,630.0	Proppant In Wellbore (lb) 601,630.0	Proppant Total (lb) 601,630.0	Clean Volume Design (bbl)	Total Clean Volume (bbl) 10,683.00
Open Wellhead (psi) 927.0	Final ISIP (psi) 3,097.0	Close Wellhead (psi) 2,883.0	Breakdown Pressure (psi) 4,136.0	Max Treating Pressure (...) 8,342.0	Avg Treating Pressure (...) 6,362.0	Max Slurry Rate (bbl/min) 90	Avg Slurry Rate (bbl/min) 90

Comment  
Name = STAGE 14, Stage Count = 4

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)
OPEN WELLHEAD	11/1/2017 00:57	11/1/2017 00:59						



PIONEER  
NATURAL RESOURCES

UNIVERSITY 7-43 113H

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

OCM  
11/1/2017  
7  
043124  
\$5,296,678.00  
\$1,785,256.23  
\$390,020.25

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)
ACID SPEARHEAD	11/1/2017 00:59	11/1/2017 01:02	24.00	24.00				
PAD	11/1/2017 01:02	11/1/2017 01:24	1,452.00	1,476.00				
SLURRY	11/1/2017 01:24	11/1/2017 01:30	476.00	1,952.00	OTHER, 100 Mesh	0.50	10,435.0	10,435.0
SLURRY	11/1/2017 01:30	11/1/2017 01:36	524.00	2,476.00	OTHER, 100 Mesh	0.75	15,397.0	25,832.0
SLURRY	11/1/2017 01:36	11/1/2017 01:43	595.00	3,071.00	OTHER, 100 Mesh	1.00	26,176.0	52,008.0
SLURRY	11/1/2017 01:43	11/1/2017 01:50	571.00	3,642.00	OTHER, 100 Mesh	1.25	29,432.0	81,440.0
SLURRY	11/1/2017 01:50	11/1/2017 01:57	619.00	4,261.00	BROWN, 40/70	0.75	19,305.0	100,745.0
SLURRY	11/1/2017 01:57	11/1/2017 02:05	714.00	4,975.00	BROWN, 40/70	1.00	28,853.0	129,598.0
SLURRY	11/1/2017 02:05	11/1/2017 02:16	857.00	5,832.00	BROWN, 40/70	1.50	50,293.0	179,891.0
SLURRY	11/1/2017 02:16	11/1/2017 02:28	1,028.00	6,860.00	BROWN, 40/70	2.00	84,773.0	264,664.0
SLURRY	11/1/2017 02:28	11/1/2017 02:37	738.00	7,598.00	BROWN, 30/50	2.00	62,689.0	327,353.0
SLURRY	11/1/2017 02:37	11/1/2017 02:48	810.00	8,408.00	BROWN, 30/50	2.50	85,395.0	412,748.0
SLURRY	11/1/2017 02:48	11/1/2017 02:59	881.00	9,289.00	BROWN, 30/50	3.00	109,584.0	522,332.0
SLURRY	11/1/2017 02:59	11/1/2017 03:06	601.00	9,890.00	BROWN, 30/50	3.50	79,298.0	601,630.0
FLUSH	11/1/2017 03:06	11/1/2017 03:12	467.00	10,357.00				601,630.0
CLOSE WELLHEAD	11/1/2017 03:12	11/1/2017 03:12		10,357.00				601,630.0
PUMP DOWN	11/1/2017 04:05	11/1/2017 04:16	326.00	10,683.00				601,630.0

Proppants

Type		Des	Sand Size
BROWN		BULK SAND	40/70
BROWN		BULK SAND	30/50
OTHER		BULK SAND	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	10/31/2017 10:48	4.38	17,036.0	17,038.0			
No	Yes	FRAC PLUG	10/31/2017 16:41	4.38	16,796.0	16,798.0			
No	Yes	FRAC PLUG	10/31/2017 22:44	4.38	16,552.0	16,554.0			
No	Yes	FRAC PLUG	11/1/2017 04:16	4.38	16,316.0	16,318.0			

<div><div>PIONEER</div><div>NATURAL RESOURCES</div></div>			<div>UNIVERSITY 7-43 113H</div>			<div><div>Job:</div><div>Report Date:</div><div>Report #:</div><div>AFE #:</div><div>Total AFE + Sup:</div><div>Cum Field Estimate:</div><div>Daily Field Estimate:</div></div> <div><div>OCM</div><div>11/2/2017</div><div>8</div><div>043124</div><div>\$5,296,678.00</div><div>\$2,180,547.24</div><div>\$395,291.01</div></div>					
<div>FRAC FLEET / CREW #</div>											
Contractor					Rig #						
PIONEER PUMPING SERVICES					BULLPEN						

SSN ID00003144		API/UWI 42-003-47567-0000		Property Sub 927638-113		Field Name SPRABERRY (TREND AREA)		Open Formation LOWER SPRABERRY SHALE (SPBY L C1)		Spud Date 8/30/2017		TD (max) (ftKB) 19,705.0	
Job Category ORIG COMPLETION				Primary Job Type OCM		Start Date 10/25/2017		End Date		Job Status AFE APPROVED		Responsible Grp 2 STIM ENG - JOSH MEASLES	

Job Dates

Date	Type MILESTONE	Subtype TURN OVER TO PRODUCTION		Note
10/28/2017	MILESTONE	READY TO START (RTS)		
11/8/2017	PLAN	STIMULATION END		

Safety Checks

Time	Type	Des	Tour	Com
06:01	MEETING	PRE-TOUR	NIGHT	Held safety meeting with PPS-4 and all third party vendors. Discussed safety awareness and job duties.
06:01	MEETING	PRE-TOUR	DAY	Held safety meeting with PPS-4 and all third party vendors. Discussed safety awareness and job duties.
17:30	MEETING	PRE-TOUR	NIGHT	Held safety meeting with PPS-4 and all third party vendors. Discussed safety awareness and job duties.

Daily Contacts on Location

Contact Name	Title	Tour	Mobile	Alt Mobile #	Note
NECAISE, KEVIN	SUPERINTENDE NT				
MEASLES, JOSH	ENGINEER		432-214-3508		
MILLS, ASHLEY	ENGINEER	DAY	432-214-6782		
GREENE, MITCH	ENGINEER	DAY	432-894-7612		
TREJO, JEREMIAH	FOREMAN	DAY	682-229-0983		
HATHCOAT, ANDREW	SUPERVISOR	DAY	903-439-5529		
TRAYLOR, KENDALL	FOREMAN	NIGHT	806-440-2670		
BROWN, PERRY	FOREMAN	NIGHT	832-690-7101		
STEPHENS, BOBBY	FOREMAN	DAY	940-521-6335		

Personnel Log

Company	Count
NINE ENERGY SERVICE INC	8
PNR PUMPING SERVICES LLC	24
LIFT CRANE SERVICE LLC	4
NEW WAVE WATER TRANSFER	8
PNR PUMPING SERVICES LLC	7
TETRA TECHNOLOGIES INC	4

Daily Operations

Operations at Report Time WL stage 19	Daily Goal Description STAGES PER DAY	Daily Goal - Last 24 4.0
Operations Summary Below Grade Cellars Frac Stage(s) 15,16,17,18 P/P Stage(s) 16,17,18,19 NPT= 1 hr. Tee on popoff, Leak on pump		
Operations Next Report Period STIM OPS		
Remarks NO ACCIDENTES 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	06:15	0.25	STIM, OPS	WIRELINE	WL_NONOPS	WL @ 200'	NORMAL			
06:15	07:18	1.05	STIM, OPS	SWAPOVER	SWAP_FRAC	Swap/Load/Test	NORMAL	13	0.70	
07:18	09:39	2.35	STIM, OPS	FRAC	STIM	Frac Stage 15 / PTD	NORMAL			15
09:39	10:13	0.58	STIM, OPS	SWAPOVER	SWAP_WL	Swap/Test lube to 9,000 psi/Re-head	NORMAL			
10:13	11:04	0.85	STIM, OPS	WIRELINE	WL_RUNDN	RIH	NORMAL			
11:04	11:45	0.67	STIM, OPS	WIRELINE	WL_RUNUP	POOH	NORMAL			
11:45	13:12	1.45	STIM, OPS	WIRELINE	WL_NONOPS	WL @ 200'	NORMAL			
13:12	13:33	0.35	STIM, OPS	SWAPOVER	SWAP_FRAC	Swap/Load/Test	NORMAL			
13:33	16:01	2.48	STIM, OPS	FRAC	STIM	Frac Stage 13	NORMAL			16
16:01	16:18	0.27	STIM, OPS	SWAPOVER	SWAP_WL	Swap/Test lube to 9,000 psi	NORMAL			
16:18	17:06	0.8	STIM, OPS	WIRELINE	WL_RUNDN	RIH	NORMAL			
17:06	17:43	0.63	STIM, OPS	WIRELINE	WL_RUNUP	POOH	NORMAL			
17:43	18:54	1.18	STIM, OPS	WIRELINE	WL_NONOPS	WL @ 200'	NORMAL			
18:54	19:24	0.5	STIM, OPS	SWAPOVER	SWAP_FRAC	Swap Frac	NORMAL			

PIONEER

NATURAL RESOURCES

UNIVERSITY 7-43 113H

FRAC FLEET / CREW #

Contractor

PIONEER PUMPING SERVICES

Rig #

4

Job:

Report Date:

Report #:

AFE #:

Total AFE + Sup:

Cum Field Estimate:

Daily Field Estimate:

OCM

11/2/2017

8

043124

\$5,296,678.00

\$2,180,547.24

\$395,291.01

Time Log

Start Time	End Time	Dur (hr)	Phase	Activity	Operation	Com	Ops Category	Prob Ref #	Prob Hrs (hr)	Frac Stage
19:24	21:38	2.23	STIM, OPS	FRAC	STIM	Frac stage 17 - Pumped as designed	NORMAL			17
21:38	22:15	0.62	STIM, OPS	WIRELINE	WL_MAINT	WL rehead	NORMAL			
22:15	22:27	0.2	STIM, OPS	SWAPOVER	SWAP_WL	Swap WL	NORMAL			
22:27	23:08	0.68	STIM, OPS	WIRELINE	WL_RUNDN	RIH	NORMAL			
23:08	00:14	1.1	STIM, OPS	WIRELINE	WL_RUNUP	POOH	NORMAL			
00:14	01:14	1	STIM, OPS	WIRELINE	WL_NONOPS	WL 200'	NORMAL			
01:14	01:34	0.33	STIM, OPS	SWAPOVER	SWAP_FRAC	Swap Frac	NORMAL			
01:34	04:11	2.62	STIM, OPS	FRAC	STIM	Frac stage 18 - Shut down on .75 sand due to high pressure leak on pump 11475 - Stepped up sand, all sand pumped.	NORMAL	14	0.25	18
04:11	04:29	0.3	STIM, OPS	SWAPOVER	SWAP_WL	Swap WL	NORMAL			
04:29	06:00	1.51	STIM, OPS	WIRELINE	WL_RUNDN	RIH	NORMAL	15	1.00	

Fluid Summary

Fluid	Cum to Well (bbl)	To well (bbl)	Cum from Well (bbl)	From well (bbl)	Left to recover (bbl)
WELL FLUID	197,719.0	43,822.0			197,719.0

Interval Problems

FRAC/STIMULATION EQUIPMENT, TREATING IRON, TEE, 11/1/2017 06:35

Ref #	End Date	Dur (Net) (hr)	Excl...	Accountable Party	Est Cost (Cost)	Comment
13	11/1/2017 07:17	0.70	No	PNR PUMPING SERVICES LLC		Change Tee on the Pop off

FRAC/STIMULATION EQUIPMENT, PUMPS, OTHER, 11/2/2017 02:20

Ref #	End Date	Dur (Net) (hr)	Excl...	Accountable Party	Est Cost (Cost)	Comment
14	11/2/2017 02:35	0.25	No	PNR PUMPING SERVICES LLC		High Pressure leak on pump

WIRELINE, E-LINE, CASING COLLAR LOCATOR, 11/2/2017 05:00

Ref #	End Date	Dur (Net) (hr)	Excl...	Accountable Party	Est Cost (Cost)	Comment
15			No	NINE ENERGY SERVICE INC		CCL not readling collars

Rigs

Contractor	Rig #	Start Date	RR Date	Rig Type
CDK PERFORATING (NINE ENERGY)		10/26/2017 06:01		WIRELINE
PIONEER PUMPING SERVICES	BULLPEN	10/26/2017 06:01		FRAC FLEET
PIONEER PUMPING SERVICES	4	10/26/2017 06:01		FRAC FLEET

DIESEL, FUEL

Total Received	Total Consumed	Total Returned
38,341.0	38,341.0	0.0

Job Supply Amounts

Date	Supply Item Des	Type	Received	Consumed	Returned	Cum Received	Cum Consumed	Cum Returned
11/2/2017 04:45	DIESEL	FUEL	1,972	1,972	0	29,631.0	29,631.0	0.0
11/2/2017 04:45	DIESEL	FUEL	2,246	2,246	0	31,877.0	31,877.0	0.0
11/2/2017 04:45	DIESEL	FUEL	2,238	2,238	0	34,115.0	34,115.0	0.0
11/2/2017 04:45	DIESEL	FUEL	2,044	2,044	0	36,159.0	36,159.0	0.0
11/2/2017 04:45	DIESEL	FUEL	2,182	2,182	0	38,341.0	38,341.0	0.0
11/2/2017 04:46	DIESEL	FUEL				38,341.0	38,341.0	0.0

Perforations

Int #	Prop?	Type	Top (ftKB)	Btm (ftKB)	Btm - Top (ft)	Shot Dens (shots/ft)	Entered Shot Total	String Perforated	Com	Cluster #
17	No	CONVENTIONAL PERF	15,614.0	15,616.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		6
17	No	CONVENTIONAL PERF	15,654.0	15,656.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		5
17	No	CONVENTIONAL PERF	15,694.0	15,696.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		4
17	No	CONVENTIONAL PERF	15,734.0	15,736.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		3
17	No	CONVENTIONAL PERF	15,774.0	15,776.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		2
17	No	CONVENTIONAL PERF	15,814.0	15,816.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		1
16	No	CONVENTIONAL PERF	15,858.0	15,860.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB	Moved +4 DTC	6
16	No	CONVENTIONAL PERF	15,892.0	15,894.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB	Moved -2 DTC	5
16	No	CONVENTIONAL PERF	15,934.0	15,936.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		4
16	No	CONVENTIONAL PERF	15,974.0	15,976.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		3
16	No	CONVENTIONAL PERF	16,014.0	16,016.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		2
16	No	CONVENTIONAL PERF	16,054.0	16,056.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		1

PIONEER

NATURAL RESOURCES

UNIVERSITY 7-43 113H

Job:

Report Date:

Report #:

AFE #:

Total AFE + Sup:

Cum Field Estimate:

Daily Field Estimate:

OCM

11/2/2017

8

043124

\$5,296,678.00

\$2,180,547.24

\$395,291.01

Stimulations Summary

Stim/Treat Company

PIONEER PUMPING SERVICES

Diversion Company

Diversion Method

COMPOSITE PLUG

Start Date

10/28/2017 02:30

End Date

Job

OCM, 10/25/2017 06:00

Number of Treatment Intervals

18

Design Number of Treatment Intervals

42

Volume Clean Total (bbl)

195,629.00

Proppant Total (lb)

10,827,159.0

Stimulation Intervals

Frac Stage 15 on 11/1/2017 07:18

Proposed?

No

Type

HYDRAULIC FRACTURE

Date

11/1/2017

String (Deployment Method)

PRODUCTION, 19,690.0ftKB

Top Depth (ftKB)

16,094.0

Bottom Depth (ftKB)

16,296.0

Post Job Frac Gradient (...)

0.71

Pump Power Max (hp)

Proppant Designed (lb)

Proppant In Formation (lb)

604,558.6

Proppant In Wellbore (lb)

Proppant Total (lb)

601,278.0

Clean Volume Design (bbl)

Total Clean Volume (bbl)

10,917.00

Open Wellhead (psi)

910.0

End of Job ISIP (psi)

2,637.0

Close Wellhead (psi)

2,489.0

Breakdown Pressure (psi)

4,149.0

Max Treating Pressure (...)

8,872.0

Avg Treating Pressure (...)

7,230.0

Max Slurry Rate (bbl/min)

90.7

Avg Slurry Rate (bbl/min)

88.6

Comment

Name = STAGE 15, Stage Count = 4

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)
OPEN WELLHEAD	11/1/2017 07:18	11/1/2017 07:19						
ACID SPEARHEAD	11/1/2017 07:19	11/1/2017 07:25	24.00	24.00				
PAD	11/1/2017 07:25	11/1/2017 07:51	1,717.00	1,741.00				
SLURRY	11/1/2017 07:51	11/1/2017 07:57	476.00	2,217.00	OTHER, 100 Mesh	0.50	10,487.0	10,487.0
SLURRY	11/1/2017 07:57	11/1/2017 08:03	524.00	2,741.00	OTHER, 100 Mesh	0.75	15,340.0	25,827.0
SLURRY	11/1/2017 08:03	11/1/2017 08:10	595.00	3,336.00	OTHER, 100 Mesh	1.00	25,067.0	50,894.0
SLURRY	11/1/2017 08:10	11/1/2017 08:17	587.00	3,923.00	OTHER, 100 Mesh	1.25	30,285.0	81,179.0
SLURRY	11/1/2017 08:17	11/1/2017 08:24	619.00	4,542.00	BROWN, 40/70	0.75	19,088.0	100,267.0
SLURRY	11/1/2017 08:24	11/1/2017 08:33	714.00	5,256.00	BROWN, 40/70	1.00	29,552.0	129,819.0
SLURRY	11/1/2017 08:33	11/1/2017 08:43	857.00	6,113.00	BROWN, 40/70	1.50	52,104.0	181,923.0
SLURRY	11/1/2017 08:43	11/1/2017 08:54	979.00	7,092.00	BROWN, 40/70	2.00	81,413.0	263,336.0
SLURRY	11/1/2017 08:54	11/1/2017 09:04	738.00	7,830.00	BROWN, 30/50	2.00	62,327.0	325,663.0
SLURRY	11/1/2017 09:04	11/1/2017 09:14	810.00	8,640.00	BROWN, 30/50	2.50	85,433.0	411,096.0
SLURRY	11/1/2017 09:14	11/1/2017 09:25	881.00	9,521.00	BROWN, 30/50	3.00	110,374.0	521,470.0
SLURRY	11/1/2017 09:25	11/1/2017 09:33	610.00	10,131.00	BROWN, 30/50	3.50	79,808.0	601,278.0
FLUSH	11/1/2017 09:33	11/1/2017 09:39	462.00	10,593.00				601,278.0
CLOSE WELLHEAD	11/1/2017 09:39	11/1/2017 09:39		10,593.00				601,278.0
PUMP DOWN	11/1/2017 10:14	11/1/2017 11:10	324.00	10,917.00				601,278.0

Proppants

Type	Des	Sand Size
BROWN	BULK SAND	40/70
BROWN	BULK SAND	30/50
OTHER	BULK SAND	100 Mesh

Frac Stage 16 on 11/1/2017 13:33

Proposed?

No

Type

HYDRAULIC FRACTURE

Date

11/1/2017

String (Deployment Method)

PRODUCTION, 19,690.0ftKB

Top Depth (ftKB)

15,854.0

Bottom Depth (ftKB)

16,056.0

Post Job Frac Gradient (...)

0.68

Pump Power Max (hp)

Proppant Designed (lb)

Proppant In Formation (lb)

599,620.0

Proppant In Wellbore (lb)

Proppant Total (lb)

599,620.0

Clean Volume Design (bbl)

Total Clean Volume (bbl)

11,400.00

Open Wellhead (psi)

851.0

End of Job ISIP (psi)

2,377.0

Close Wellhead (psi)

2,228.0

Breakdown Pressure (psi)

3,955.0

Max Treating Pressure (...)

8,198.0

Avg Treating Pressure (...)

7,408.0

Max Slurry Rate (bbl/min)

90.7

Avg Slurry Rate (bbl/min)

89.8

Comment

Name = STAGE 16, Stage Count = 4

Washed out a Tee on the back of a pump. SD / Flushed and continued job

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)
OPEN WELLHEAD	11/1/2017 13:33	11/1/2017 13:35						
ACID SPEARHEAD	11/1/2017 13:35	11/1/2017 13:41	24.00	24.00				
PAD	11/1/2017 13:41	11/1/2017 14:02	1,452.00	1,476.00				
SLURRY	11/1/2017 14:02	11/1/2017 14:07	476.00	1,952.00	OTHER, 100 Mesh	0.50	9,482.0	9,482.0
SLURRY	11/1/2017 14:07	11/1/2017 14:14	524.00	2,476.00	OTHER, 100 Mesh	0.75	15,844.0	25,326.0
SLURRY	11/1/2017 14:14	11/1/2017 14:20	595.00	3,071.00	OTHER, 100 Mesh	1.00	24,466.0	49,792.0
SLURRY	11/1/2017 14:20	11/1/2017 14:28	609.00	3,680.00	OTHER, 100 Mesh	1.25	31,193.0	80,985.0
SLURRY	11/1/2017 14:28	11/1/2017 14:35	619.00	4,299.00	BROWN, 40/70	0.75	18,453.0	99,438.0
SLURRY	11/1/2017 14:35	11/1/2017 14:43	714.00	5,013.00	BROWN, 40/70	1.00	30,060.0	129,498.0
SLURRY	11/1/2017 14:43	11/1/2017 14:53	857.00	5,870.00	BROWN, 40/70	1.50	51,542.0	181,040.0
SLURRY	11/1/2017 14:53	11/1/2017 15:10	509.00	6,379.00	BROWN, 40/70	2.00	23,510.0	204,550.0
STAIR STEP	11/1/2017 15:10	11/1/2017 15:16	1,012.00	7,391.00	BROWN, 40/70	1.50	58,786.0	263,336.0
STAIR STEP	11/1/2017 15:16	11/1/2017 15:18	230.00	7,621.00	BROWN, 30/50	2.00	17,757.0	281,093.0
SLURRY	11/1/2017 15:18	11/1/2017 15:26	636.00	8,257.00	BROWN, 30/50	2.00	44,843.0	325,936.0
SLURRY	11/1/2017 15:26	11/1/2017 15:36	810.00	9,067.00	BROWN, 30/50	2.50	85,385.0	411,321.0
SLURRY	11/1/2017 15:36	11/1/2017 15:48	881.00	9,948.00	BROWN, 30/50	3.00	110,849.0	522,170.0
SLURRY	11/1/2017 15:48	11/1/2017 15:55	701.00	10,649.00	BROWN, 30/50	3.50	77,450.0	599,620.0
FLUSH	11/1/2017 15:55	11/1/2017 16:02	455.00	11,104.00				599,620.0
CLOSE WELLHEAD	11/1/2017 16:02	11/1/2017 16:02		11,104.00				599,620.0

PIONEER

NATURAL RESOURCES

UNIVERSITY 7-43 113H

Job:

Report Date:

Report #:

AFE #:

Total AFE + Sup:

Cum Field Estimate:

Daily Field Estimate:

OCM

11/2/2017

8

043124

\$5,296,678.00

\$2,180,547.24

\$395,291.01

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)
PUMP DOWN	11/1/2017 16:18	11/1/2017 17:05	296.00	11,400.00				599,620.0

Type	Des	Sand Size
BROWN	BULK SAND	40/70
BROWN	BULK SAND	30/50
OTHER	BULK SAND	100 Mesh

Frac Stage 17 on 11/1/2017 19:25

Proposed? No	Type HYDRAULIC FRACTURE	Date 11/1/2017	String (Deployment Method) PRODUCTION, 19,690.0ftKB			Top Depth (ftKB) 15,614.0	Bottom Depth (ftKB) 15,816.0
Post Job Frac Gradient ( ... ) 0.72	Pump Power Max (hp)	Proppant Designed (lb)	Proppant In Formation (lb) 604,349.0	Proppant In Wellbore (lb)	Proppant Total (lb) 604,349.0	Clean Volume Design (bbl)	Total Clean Volume (bbl) 10,610.00
Open Wellhead (psi) 799.0	End of Job ISIP (psi) 2,696.0	Close Wellhead (psi) 2,302.0	Breakdown Pressure (psi) 4,005.0	Max Treating Pressure ( ... ) 8,561.0	Avg Treating Pressure ( ... ) 6,573.0	Max Slurry Rate (bbl/min) 91	Avg Slurry Rate (bbl/min) 90

Comment  
Name = STAGE 17, Stage Count = 5

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)
OPEN WELLHEAD	11/1/2017 19:25	11/1/2017 19:27						
ACID SPEARHEAD	11/1/2017 19:27	11/1/2017 19:30	24.00	24.00				
PAD	11/1/2017 19:30	11/1/2017 19:52	1,452.00	1,476.00				
SLURRY	11/1/2017 19:52	11/1/2017 19:57	476.00	1,952.00	BROWN SAND, 100 Mesh	0.50	9,065.0	9,065.0
SLURRY	11/1/2017 19:57	11/1/2017 20:03	524.00	2,476.00	BROWN SAND, 100 Mesh	0.75	15,920.0	24,985.0
SLURRY	11/1/2017 20:03	11/1/2017 20:10	595.00	3,071.00	BROWN SAND, 100 Mesh	1.00	24,536.0	49,521.0
SLURRY	11/1/2017 20:10	11/1/2017 20:17	612.00	3,683.00	BROWN SAND, 100 Mesh	1.25	31,720.0	81,241.0
SLURRY	11/1/2017 20:17	11/1/2017 20:25	619.00	4,302.00	BROWN, 40/70	0.75	19,622.0	100,863.0
SLURRY	11/1/2017 20:25	11/1/2017 20:33	714.00	5,016.00	BROWN, 40/70	1.00	28,024.0	128,887.0
SLURRY	11/1/2017 20:33	11/1/2017 20:43	857.00	5,873.00	BROWN, 40/70	1.50	55,238.0	184,125.0
SLURRY	11/1/2017 20:43	11/1/2017 20:50	925.00	6,798.00	BROWN, 40/70	2.00	78,030.0	262,155.0
SLURRY	11/1/2017 20:50	11/1/2017 21:04	738.00	7,536.00	BROWN, 30/50	2.00	59,766.0	321,921.0
SLURRY	11/1/2017 21:04	11/1/2017 21:15	810.00	8,346.00	BROWN, 30/50	2.50	85,883.0	407,804.0
SLURRY	11/1/2017 21:15	11/1/2017 21:25	881.00	9,227.00	BROWN, 30/50	3.00	108,969.0	516,773.0
SLURRY	11/1/2017 21:25	11/1/2017 21:34	659.00	9,886.00	BROWN, 30/50	3.50	87,576.0	604,349.0
FLUSH	11/1/2017 21:34	11/1/2017 21:40	451.00	10,337.00				604,349.0
CLOSE WELLHEAD	11/1/2017 21:40	11/1/2017 21:40		10,337.00				604,349.0
PUMP DOWN	11/1/2017 22:44	11/1/2017 23:04	273.00	10,610.00				604,349.0

Type	Des	Sand Size
BROWN	BULK SAND	40/70
BROWN	BULK SAND	30/50
BROWN SAND	BULK SAND	100 Mesh

Frac Stage 18 on 11/2/2017 01:35

Proposed? No	Type HYDRAULIC FRACTURE	Date 11/2/2017	String (Deployment Method) PRODUCTION, 19,690.0ftKB			Top Depth (ftKB) 15,374.0	Bottom Depth (ftKB) 15,576.0
Post Job Frac Gradient ( ... ) 0.74	Pump Power Max (hp)	Proppant Designed (lb)	Proppant In Formation (lb) 598,175.0	Proppant In Wellbore (lb)	Proppant Total (lb) 598,175.0	Clean Volume Design (bbl)	Total Clean Volume (bbl) 10,967.00
Open Wellhead (psi) 793.0	End of Job ISIP (psi) 2,912.0	Close Wellhead (psi) 2,652.0	Breakdown Pressure (psi) 4,109.0	Max Treating Pressure ( ... ) 8,928.0	Avg Treating Pressure ( ... ) 6,542.0	Max Slurry Rate (bbl/min) 91	Avg Slurry Rate (bbl/min) 88.1

Comment  
Name = STAGE 18, Stage Count = 6

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)
OPEN WELLHEAD	11/2/2017 01:35	11/2/2017 01:37						
ACID SPEARHEAD	11/2/2017 01:37	11/2/2017 01:39	24.00	24.00				
PAD	11/2/2017 01:39	11/2/2017 02:03	1,452.00	1,476.00				
SLURRY	11/2/2017 02:03	11/2/2017 02:10	476.00	1,952.00	BROWN SAND, 100 Mesh	0.50	8,428.0	8,428.0
SLURRY	11/2/2017 02:10	11/2/2017 02:23	524.00	2,476.00	BROWN SAND, 100 Mesh	0.75	15,722.0	24,150.0
CLOSE WELLHEAD	11/2/2017 02:23	11/2/2017 02:33		2,476.00				24,150.0
OPEN WELLHEAD	11/2/2017 02:33	11/2/2017 02:34		2,476.00				24,150.0
SLURRY	11/2/2017 02:34	11/2/2017 02:38	786.00	3,262.00	BROWN SAND, 100 Mesh	0.50	11,563.0	35,713.0
SLURRY	11/2/2017 02:38	11/2/2017 02:46	595.00	3,857.00	BROWN SAND, 100 Mesh	1.00	15,762.0	51,475.0
SLURRY	11/2/2017 02:46	11/2/2017 02:52	582.00	4,439.00	BROWN SAND, 100 Mesh	1.25	30,611.0	82,086.0
SLURRY	11/2/2017 02:52	11/2/2017 02:59	619.00	5,058.00	BROWN, 40/70	0.75	19,953.0	102,039.0
SLURRY	11/2/2017 02:59	11/2/2017 03:08	714.00	5,772.00	BROWN, 40/70	1.00	28,826.0	130,865.0
SLURRY	11/2/2017 03:08	11/2/2017 03:18	857.00	6,629.00	BROWN, 40/70	1.50	55,530.0	186,395.0
SLURRY	11/2/2017 03:18	11/2/2017 03:29	910.00	7,539.00	BROWN, 40/70	2.00	79,788.0	266,183.0
SLURRY	11/2/2017 03:29	11/2/2017 03:39	738.00	8,277.00	BROWN, 30/50	2.00	64,776.0	330,959.0
SLURRY	11/2/2017 03:39	11/2/2017 03:49	810.00	9,087.00	BROWN, 30/50	2.50	84,096.0	415,055.0

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PIONEER

NATURAL RESOURCES

UNIVERSITY 7-43 113H

Job:

Report Date:

Report #:

AFE #:

Total AFE + Sup:

Cum Field Estimate:

Daily Field Estimate:

OCM

11/2/2017

8

043124

\$5,296,678.00

\$2,180,547.24

\$395,291.01

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)
SLURRY	11/2/2017 03:49	11/2/2017 04:00	881.00	9,968.00	BROWN, 30/50	3.00	112,378.0	527,433.0
SLURRY	11/2/2017 04:00	11/2/2017 04:07	554.00	10,522.00	BROWN, 30/50	3.50	70,742.0	598,175.0
FLUSH	11/2/2017 04:07	11/2/2017 04:13	445.00	10,967.00				598,175.0
CLOSE WELLHEAD	11/2/2017 04:13	11/2/2017 04:13		10,967.00				598,175.0

Proppants		
Type	Des	Sand Size
BROWN	BULK SAND	40/70
BROWN	BULK SAND	30/50
BROWN SAND	BULK SAND	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	11/1/2017 11:05	4.38	16,070.0	16,072.0			Moved -6 DTC
No	Yes	FRAC PLUG	11/1/2017 16:45	4.38	15,836.0	15,838.0			
No	Yes	FRAC PLUG	11/1/2017 23:04	4.38	15,596.0	15,598.0			



PIONEER

NATURAL RESOURCES

UNIVERSITY 7-43 113H

FRAC FLEET / CREW #

Contractor

PIONEER PUMPING SERVICES

Rig #

BULL PEN

Job:

Report Date:

Report #:

AFE #:

Total AFE + Sup:

Cum Field Estimate:

Daily Field Estimate:

OCM

11/3/2017

9

043124

\$5,296,678.00

\$2,386,131.30

\$207,874.06

SSN

ID00003144

API/UWI

42-003-47567-0000

Property Sub

927638-113

Field Name

SPRABERRY (TREND AREA)

Open Formation

LOWER SPRABERRY SHALE (SPBY L C1)

Spud Date

8/30/2017

TD (max) (ftKB)

19,705.0

Job Category

ORIG COMPLETION

Primary Job Type

OCM

Start Date

10/25/2017

End Date

Job Status

AFE APPROVED

Responsible Grp 2

STIM ENG - JOSH MEASLES

Job Dates

Date

Type

Subtype

Note

10/28/2017

MILESTONE

TURN OVER TO PRODUCTION

11/8/2017

MILESTONE

READY TO START (RTS)

11/8/2017

PLAN

STIMULATION END

Safety Checks

Time

Type

Des

Tour

Com

06:01

MEETING

PRE-TOUR

DAY

Held safety meeting with PPS-4 and all third party vendors. Discussed safety awareness and job duties.

17:30

MEETING

PRE-TOUR

NIGHT

Held safety meeting with PPS-4 and all third party vendors. Discussed safety awareness and job duties.

17:30

MEETING

PRE-TOUR

NIGHT

Held safety meeting with PPS-4 and all third party vendors. Discussed safety awareness and job duties.

Daily Contacts on Location

Contact Name

Title

Tour

Mobile

Alt Mobile #

Note

NECAISE, KEVIN

SUPERINTENDE NT

MEASLES, JOSH

ENGINEER

432-214-3508

MILLS, ASHLEY

ENGINEER

DAY

432-214-6782

GREENE, MITCH

ENGINEER

DAY

432-894-7612

TREJO, JEREMIAH

FOREMAN

DAY

682-229-0983

HATHCOAT, ANDREW

SUPERVISOR

DAY

903-439-5529

TRAYLOR, KENDALL

FOREMAN

NIGHT

806-440-2670

BROWN, PERRY

FOREMAN

NIGHT

832-690-7101

STEPHENS, BOBBY

FOREMAN

NIGHT

940-521-6335

Personnel Log

Company

Count

NINE ENERGY SERVICE INC

8

PNR PUMPING SERVICES LLC

24

LIFT CRANE SERVICE LLC

4

NEW WAVE WATER TRANSFER

8

PNR PUMPING SERVICES LLC

7

TETRA TECHNOLOGIES INC

4

Daily Operations

Operations at Report Time

Daily Goal Description

Daily Goal - Last 24

Pumping stage 21

STAGES PER DAY

3.0

Operations Summary

Below Grade Cellars

Frac Stage(s) 19,20

P/P Stage(s) 19,20,21

NPT = 4 hrs. 2- Mis-runs CCL Line kink, Swapped out cable heads and Switched to Baker 20 setting tools.

Operations Next Report Period

STIM OPS

Remarks

NO ACCIDENTES 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

08:20

2.34

STIM, OPS

WIRELINE

WL\_RUNDN

RIH

NORMAL

15

2.33

08:20

09:07

0.78

STIM, OPS

WIRELINE

WL\_RUNUP

POOH

NORMAL

09:07

09:43

0.6

STIM, OPS

SWAPOVER

SWAP\_FRAC

Swap/Load/Test

NORMAL

09:43

12:16

2.55

STIM, OPS

FRAC

STIM

Frac Stage 19 // Flush with PD

NORMAL

19

12:16

12:33

0.28

STIM, OPS

SWAPOVER

SWAP\_WL

Swap/Test lube to 9,000 psi

NORMAL

12:33

13:19

0.78

STIM, OPS

WIRELINE

WL\_RUNDN

RIH

NORMAL

13:19

14:09

0.82

STIM, OPS

WIRELINE

WL\_RUNUP

POOH

NORMAL

14:09

20:07

5.98

STIM, OPS

NONOPS

PAD

Wait on Pad Ops

NORMAL

16

3.57

20:07

20:33

0.43

STIM, OPS

SWAPOVER

SWAP\_FRAC

Swap Frac

NORMAL

20:33

22:54

2.35

STIM, OPS

FRAC

STIM

Frac Stage 20 - PPS lost both gel pumps on 2lb sand. staged down to 1.50 until gel pumps were repaired. Stage complete, all sand pumped.

NORMAL

20

22:54

23:09

0.25

STIM, OPS

SWAPOVER

SWAP\_WL

Swap WL

NORMAL

23:09

01:49

2.67

STIM, OPS

WIRELINE

WL\_RUNDN

RIH

NORMAL

17

1.67

01:49

02:45

0.92

STIM, OPS

WIRELINE

WL\_RUNUP

POOH

NORMAL

02:45

03:40

0.92

STIM, OPS

WIRELINE

WL\_NONOPS

WL 200'

NORMAL

PIONEER

NATURAL RESOURCES

UNIVERSITY 7-43 113H

Job:

Report Date:

Report #:

AFE #:

Total AFE + Sup:

Cum Field Estimate:

Daily Field Estimate:

OCM

11/3/2017

9

043124

\$5,296,678.00

\$2,386,131.30

\$207,874.06

FRAC FLEET / CREW #	
Contractor	Rig #
PIONEER PUMPING SERVICES	4

Start Time	End Time	Dur (hr)	Phase	Activity	Operation	Com	Ops Category	Prob Ref #	Prob Hrs (hr)	Frac Stage
03:40	04:00	0.33	STIM, OPS	SWAPOVER	SWAP_FRAC	Swap Frac	NORMAL			
04:00	06:00	2	STIM, OPS	FRAC	STIM	Frac stage 21 - Pumped as designed	NORMAL			21

Fluid Summary					
Fluid		Cum to Well (bbl)		To well (bbl)	
WELL FLUID		219,181.0		21,462.0	

Interval Problems					
WIREFLINE, E-LINE, CASING COLLAR LOCATOR, 11/2/2017 05:00					
Ref #	End Date	Dur (Net) (hr)	Excl...	Accountable Party	Est Cost (Cost)
15	11/2/2017 08:20	3.33	No	NINE ENERGY SERVICE INC	Comment
					CCL not reading collars

PAD DOWN, PAD, OFFSET WELL, 11/2/2017 14:10					
Ref #	End Date	Dur (Net) (hr)	Excl...	Accountable Party	Est Cost (Cost)
16	11/2/2017 17:44	3.57	No	FMC TECHNOLOGIES INC	Comment
					Washed out flange on mono-line

WIREFLINE, WIREFLINE UNIT, OTHER, 11/2/2017 23:35					
Ref #	End Date	Dur (Net) (hr)	Excl...	Accountable Party	Est Cost (Cost)
17	11/3/2017 01:15	1.67	No	NINE ENERGY SERVICE INC	Comment
					CCL not reading collars,POOH to change out CCL and rehead.

Rigs				
Contractor		Rig #	Start Date	RR Date
CDK PERFORATING (NINE ENERGY)			10/26/2017 06:01	
PIONEER PUMPING SERVICES		BULLPEN	10/26/2017 06:01	
PIONEER PUMPING SERVICES		4	10/26/2017 06:01	

DIESEL, FUEL		
Total Received	Total Consumed	Total Returned
38,341.0	38,341.0	0.0

Perforations										
Int #	Prop?	Type	Top (ftKB)	Btm (ftKB)	Btm - Top (ft)	Shot Dens (shots/ft)	Entered Shot Total	String Perforated	Com	Cluster #
21	No	CONVENTIONAL PERF	14,654.0	14,656.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		6
21	No	CONVENTIONAL PERF	14,694.0	14,696.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		5
21	No	CONVENTIONAL PERF	14,734.0	14,736.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		4
21	No	CONVENTIONAL PERF	14,774.0	14,776.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		3
21	No	CONVENTIONAL PERF	14,814.0	14,816.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		2
21	No	CONVENTIONAL PERF	14,854.0	14,856.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		1
20	No	CONVENTIONAL PERF	14,894.0	14,896.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		6
20	No	CONVENTIONAL PERF	14,934.0	14,936.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		5
20	No	CONVENTIONAL PERF	14,974.0	14,976.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		4
20	No	CONVENTIONAL PERF	15,014.0	15,016.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		3
20	No	CONVENTIONAL PERF	15,054.0	15,056.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		2
20	No	CONVENTIONAL PERF	15,094.0	15,096.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		1
19	No	CONVENTIONAL PERF	15,134.0	15,136.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		6
19	No	CONVENTIONAL PERF	15,174.0	15,176.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		5
19	No	CONVENTIONAL PERF	15,214.0	15,216.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		4
19	No	CONVENTIONAL PERF	15,254.0	15,256.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		3
19	No	CONVENTIONAL PERF	15,294.0	15,296.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		2
19	No	CONVENTIONAL PERF	15,334.0	15,336.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		1
18	No	CONVENTIONAL PERF	15,374.0	15,376.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		6
18	No	CONVENTIONAL PERF	15,414.0	15,416.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		5
18	No	CONVENTIONAL PERF	15,454.0	15,456.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		4
18	No	CONVENTIONAL PERF	15,494.0	15,496.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		3
18	No	CONVENTIONAL PERF	15,534.0	15,536.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		2
18	No	CONVENTIONAL PERF	15,574.0	15,576.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		1



PIONEER  
NATURAL RESOURCES

UNIVERSITY 7-43 113H

Job: OCM

Report Date: 11/3/2017

Report #: 9

AFE #: 043124

Total AFE + Sup: \$5,296,678.00

Cum Field Estimate: \$2,386,131.30

Daily Field Estimate: \$207,874.06

Proppants

Type	Des	Sand Size
BROWN	BULK SAND	40/70
BROWN	BULK SAND	30/50
BROWN SAND	BULK SAND	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	11/2/2017 08:20	4.38	15,356.0	15,358.0			
No	Yes	FRAC PLUG	11/2/2017 13:15	4.38	15,116.0	15,118.0			
No	Yes	FRAC PLUG	11/3/2017 01:40	4.38	14,876.0	14,878.0			

<div><div>PIONEER</div><div>NATURAL RESOURCES</div></div>			<div>UNIVERSITY 7-43 113H</div>			<div><div>Job:</div><div>Report Date:</div><div>Report #:</div><div>AFE #:</div><div>Total AFE + Sup:</div><div>Cum Field Estimate:</div><div>Daily Field Estimate:</div></div> <div><div>OCM</div><div>11/4/2017</div><div>10</div><div>043124</div><div>\$5,296,678.00</div><div>\$2,760,690.62</div><div>\$374,559.32</div></div>									
SSN ID00003144			API/UWI 42-003-47567-0000		Property Sub 927638-113		Field Name SPRABERRY (TREND AREA)		Open Formation LOWER SPRABERRY SHALE (SPBY L C1)		Spud Date 8/30/2017		TD (max) (ftKB) 19,705.0		
Job Category ORIG COMPLETION				Primary Job Type OCM		Start Date 10/25/2017		End Date		Job Status AFE APPROVED		Responsible Grp 2 STIM ENG - JOSH MEASLES			
Job Dates															
Date		Type MILESTONE				Subtype TURN OVER TO PRODUCTION				Note					
Date 10/28/2017		Type MILESTONE				Subtype READY TO START (RTS)				Note					
Date 11/8/2017		Type PLAN				Subtype STIMULATION END				Note					
Safety Checks															
Time		Type		Des		Tour		Com							
06:01		MEETING		PRE-TOUR		DAY		Held safety meeting with PPS-4 and all third party vendors. Discussed safety awareness and job duties.							
17:30		MEETING		PRE-TOUR		NIGHT		Held safety meeting with PPS-4 and all third party vendors. Discussed safety awareness and job duties.							
Daily Contacts on Location															
Contact Name				Title		Tour		Mobile		Alt Mobile #		Note			
NECAISE, KEVIN				SUPERINTENDE NT											
MEASLES, JOSH				ENGINEER				432-214-3508							
MILLS, ASHLEY				ENGINEER		DAY		432-214-6782							
GREENE, MITCH				ENGINEER		DAY		432-894-7612							
TREJO, JEREMIAH				FOREMAN		DAY		682-229-0983							
HATHCOAT, ANDREW				SUPERVISOR		DAY		903-439-5529							
TRAYLOR, KENDALL				FOREMAN		NIGHT		806-440-2670							
BROWN, PERRY				FOREMAN		NIGHT		832-690-7101							
STEPHENS, BOBBY				FOREMAN		NIGHT		940-521-6335							
Personnel Log															
Company												Count			
NINE ENERGY SERVICE INC												8			
PNR PUMPING SERVICES LLC												24			
LIFT CRANE SERVICE LLC												4			
NEW WAVE WATER TRANSFER												8			
PNR PUMPING SERVICES LLC												7			
TETRA TECHNOLOGIES INC												4			
Daily Operations															
Operations at Report Time RIH P/P Stg 25								Daily Goal Description STAGES PER DAY			Daily Goal - Last 24 4.0				
Operations Summary Below Grade Cellars Frac Stage(s) 21,22,23,24 P/P Stage(s) 22,23,24 NPT = 1.5hrs, Pump Maintenance															
Operations Next Report Period STIM OPS															
Remarks NO ACCIDENTES 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	06:19	0.33	STIM, OPS	FRAC	STIM	Frac Stage 21 // PTD		NORMAL			21				
06:19	06:33	0.22	STIM, OPS	SWAPOVER	SWAP_WL	Swap/Test lube to 9,000 psi		NORMAL							
06:33	07:20	0.79	STIM, OPS	WIRELINE	WL_RUNDN	RIH		NORMAL							
07:20	07:58	0.64	STIM, OPS	WIRELINE	WL_RUNUP	POOH		NORMAL							
07:58	09:07	1.15	STIM, OPS	NONOPS	PAD	Wait on Pad Ops		NORMAL							
09:07	09:42	0.57	STIM, OPS	SWAPOVER	SWAP_FRAC	Swap Frac		NORMAL							
09:42	12:00	2.3	STIM, OPS	FRAC	STIM	Frac Stage 22		NORMAL			22				
12:00	12:16	0.27	STIM, OPS	SWAPOVER	SWAP_WL	Swap WL		NORMAL							
12:16	13:01	0.75	STIM, OPS	WIRELINE	WL_RUNDN	RIH		NORMAL							
13:01	13:33	0.54	STIM, OPS	WIRELINE	WL_RUNUP	POOH		NORMAL							
13:33	15:03	1.5	STIM, OPS	WIRELINE	WL_NONOPS	WL 200'		NORMAL							
15:03	15:58	0.92	STIM, OPS	SWAPOVER	SWAP_FRAC	Swap Frac		NORMAL							
15:58	18:15	2.28	STIM, OPS	FRAC	STIM	Frac stage 23 / PTD		NORMAL			23				
18:15	19:45	1.5	STIM, OPS	NONOPS	PAD	WO offset wells		NORMAL	19	0.83					
19:45	20:00	0.25	STIM, OPS	SWAPOVER	SWAP_WL	Swap WL		NORMAL							





PIONEER

NATURAL RESOURCES

UNIVERSITY 7-43 113H

Job:

Report Date:

Report #:

AFE #:

Total AFE + Sup:

Cum Field Estimate:

Daily Field Estimate:

OCM

11/4/2017

10

043124

\$5,296,678.00

\$2,760,690.62

\$374,559.32

Perforations

Int #	Prop?	Type	Top (ftKB)	Btm (ftKB)	Btm - Top (ft)	Shot Dens (shots/ft)	Entered Shot Total	String Perforated	Com	Cluster #
22	No	CONVENTIONAL PERF	14,574.0	14,576.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		2
22	No	CONVENTIONAL PERF	14,614.0	14,616.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		1

Stimulations Summary

Stim/Treat Company	Diversion Company	Diversion Method	Start Date	End Date	Job
PIONEER PUMPING SERVICES		COMPOSITE PLUG	10/28/2017 02:30		OCM, 10/25/2017 06:00
Number of Treatment Intervals	Design Number of Treatment Intervals	Volume Clean Total (bbl)	Proppant Total (lb)		
24	42	259,272.00	14,460,811.0		

Stimulation Intervals

Frac Stage 22 on 11/3/2017 09:41

Proposed?	Type	Date	String (Deployment Method)			Top Depth (ftKB)	Bottom Depth (ftKB)
No	HYDRAULIC FRACTURE	11/3/2017	PRODUCTION, 19,690.0ftKB			14,414.0	14,616.0
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)
0.73			600,827.0		600,827.0		10,529.00
Open Wellhead (psi)	End of Job ISIP (psi)	Close Wellhead (psi)	Breakdown Pressure (psi)	Max Treating Pressure (...)	Avg Treating Pressure (...)	Max Slurry Rate (bbl/min)	Avg Slurry Rate (bbl/min)
917.0	2,834.0	2,733.0	4,103.0	8,525.0	6,635.0	92	89

Comment

Name = STAGE 22, Stage Count = 1

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)
OPEN WELLHEAD	11/3/2017 09:41	11/3/2017 09:42						
ACID SPEARHEAD	11/3/2017 09:42	11/3/2017 09:49	24.00	24.00				
PAD	11/3/2017 09:49	11/3/2017 10:11	1,452.00	1,476.00				
SLURRY	11/3/2017 10:11	11/3/2017 10:16	476.00	1,952.00	OTHER, 100 Mesh	0.50	8,970.0	8,970.0
SLURRY	11/3/2017 10:16	11/3/2017 10:23	524.00	2,476.00	OTHER, 100 Mesh	0.75	15,810.0	24,780.0
SLURRY	11/3/2017 10:23	11/3/2017 10:29	595.00	3,071.00	OTHER, 100 Mesh	1.00	23,842.0	48,622.0
SLURRY	11/3/2017 10:29	11/3/2017 10:35	625.00	3,696.00	OTHER, 100 Mesh	1.25	32,994.0	81,616.0
SLURRY	11/3/2017 10:35	11/3/2017 10:44	619.00	4,315.00	BROWN, 40/70	0.75	18,618.0	100,234.0
SLURRY	11/3/2017 10:44	11/3/2017 10:52	714.00	5,029.00	BROWN, 40/70	1.00	30,621.0	130,855.0
SLURRY	11/3/2017 10:52	11/3/2017 11:03	857.00	5,886.00	BROWN, 40/70	1.50	53,460.0	184,315.0
SLURRY	11/3/2017 11:03	11/3/2017 11:14	985.00	6,871.00	BROWN, 40/70	2.00	84,481.0	268,796.0
SLURRY	11/3/2017 11:14	11/3/2017 11:23	738.00	7,609.00	BROWN, 30/50	2.00	65,340.0	334,136.0
SLURRY	11/3/2017 11:23	11/3/2017 11:34	810.00	8,419.00	BROWN, 30/50	2.50	82,860.0	416,996.0
SLURRY	11/3/2017 11:34	11/3/2017 11:45	881.00	9,300.00	BROWN, 30/50	3.00	110,116.0	527,112.0
SLURRY	11/3/2017 11:45	11/3/2017 11:53	566.00	9,866.00	BROWN, 30/50	3.50	73,715.0	600,827.0
FLUSH	11/3/2017 11:53	11/3/2017 11:59	426.00	10,292.00				600,827.0
CLOSE WELLHEAD	11/3/2017 11:59	11/3/2017 11:59		10,292.00				600,827.0
PUMP DOWN	11/3/2017 12:15	11/3/2017 13:00	237.00	10,529.00				600,827.0

Proppants

Type	Des	Sand Size
BROWN	BULK SAND	40/70
BROWN	BULK SAND	30/50
OTHER	BULK SAND	100 Mesh

Frac Stage 23 on 11/3/2017 15:59

Proposed?	Type	Date	String (Deployment Method)			Top Depth (ftKB)	Bottom Depth (ftKB)
No	HYDRAULIC FRACTURE	11/3/2017	PRODUCTION, 19,690.0ftKB			14,174.0	14,376.0
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)
0.73			602,642.0		602,642.0		10,426.00
Open Wellhead (psi)	End of Job ISIP (psi)	Close Wellhead (psi)	Breakdown Pressure (psi)	Max Treating Pressure (...)	Avg Treating Pressure (...)	Max Slurry Rate (bbl/min)	Avg Slurry Rate (bbl/min)
959.0	2,856.0	2,696.0	4,118.0	8,380.0	6,568.0	91.3	90

Comment

Name = STAGE 23, Stage Count = 5

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)
OPEN WELLHEAD	11/3/2017 15:59	11/3/2017 15:59						
ACID SPEARHEAD	11/3/2017 15:59	11/3/2017 16:06	24.00	24.00				
PAD	11/3/2017 16:06	11/3/2017 16:28	1,452.00	1,476.00				
SLURRY	11/3/2017 16:28	11/3/2017 16:33	476.00	1,952.00	BROWN SAND, 100 Mesh	0.50	10,419.0	10,419.0
SLURRY	11/3/2017 16:33	11/3/2017 16:39	524.00	2,476.00	BROWN SAND, 100 Mesh	0.75	16,885.0	27,304.0
SLURRY	11/3/2017 16:39	11/3/2017 16:46	595.00	3,071.00	BROWN SAND, 100 Mesh	1.00	24,293.0	51,597.0
SLURRY	11/3/2017 16:46	11/3/2017 16:53	597.00	3,668.00	BROWN SAND, 100 Mesh	1.25	29,811.0	81,408.0
SLURRY	11/3/2017 16:53	11/3/2017 17:00	619.00	4,287.00	BROWN, 40/70	0.75	20,364.0	101,772.0
SLURRY	11/3/2017 17:00	11/3/2017 17:09	714.00	5,001.00	BROWN, 40/70	1.00	30,813.0	132,585.0
SLURRY	11/3/2017 17:09	11/3/2017 17:19	857.00	5,858.00	BROWN, 40/70	1.50	53,959.0	186,544.0
SLURRY	11/3/2017 17:19	11/3/2017 17:30	898.00	6,756.00	BROWN, 40/70	2.00	76,442.0	262,986.0
SLURRY	11/3/2017 17:30	11/3/2017 17:39	738.00	7,494.00	BROWN, 30/50	2.00	64,918.0	327,904.0
SLURRY	11/3/2017 17:39	11/3/2017 17:49	810.00	8,304.00	BROWN, 30/50	2.50	83,748.0	411,652.0
SLURRY	11/3/2017 17:49	11/3/2017 18:00	881.00	9,185.00	BROWN, 30/50	3.00	109,906.0	521,558.0
SLURRY	11/3/2017 18:00	11/3/2017 18:08	601.00	9,786.00	BROWN, 30/50	3.50	81,084.0	602,642.0

PIONEER  
NATURAL RESOURCES

UNIVERSITY 7-43 113H

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

OCM  
11/4/2017  
10  
043124  
\$5,296,678.00  
\$2,760,690.62  
\$374,559.32

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)
FLUSH	11/3/2017 18:08	11/3/2017 18:14	420.00	10,206.00				602,642.0
CLOSE WELLHEAD	11/3/2017 18:14	11/3/2017 18:14		10,206.00				602,642.0
PUMP DOWN	11/3/2017 20:20	11/3/2017 20:36	220.00	10,426.00				602,642.0

Proppants

Type	Des	Sand Size
BROWN	BULK SAND	40/70
BROWN	BULK SAND	30/50
BROWN SAND	BULK SAND	100 Mesh

Frac Stage 24 on 11/4/2017 03:13

Proposed? No	Type HYDRAULIC FRACTURE	Date 11/4/2017	String (Deployment Method) PRODUCTION, 19,690.0ftKB				Top Depth (ftKB) 13,934.0	Bottom Depth (ftKB) 14,136.0
Post Job Frac Gradient (...) 0.72		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)
				606,353.0		606,353.0		10,575.00
Open Wellhead (psi)	End of Job ISIP (psi)	Close Wellhead (psi)	Breakdown Pressure (psi)	Max Treating Pressure (...)	Avg Treating Pressure (...)	Max Slurry Rate (bbl/min)	Avg Slurry Rate (bbl/min)	
803.0	2,780.0	2,494.0	4,049.0	8,497.0	6,862.0	90	89	

Comment  
Name = STAGE 24, Stage Count = 0

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)
OPEN WELLHEAD	11/4/2017 03:13	11/4/2017 03:14						
ACID SPEARHEAD	11/4/2017 03:14	11/4/2017 03:18	24.00	24.00				
PAD	11/4/2017 03:18	11/4/2017 03:41	1,452.00	1,476.00				
SLURRY	11/4/2017 03:41	11/4/2017 03:46	476.00	1,952.00	OTHER, 100 Mesh	0.50	9,575.0	9,575.0
SLURRY	11/4/2017 03:46	11/4/2017 03:53	524.00	2,476.00	OTHER, 100 Mesh	0.75	16,183.0	25,758.0
SLURRY	11/4/2017 03:53	11/4/2017 03:59	595.00	3,071.00	OTHER, 100 Mesh	1.00	24,993.0	50,751.0
SLURRY	11/4/2017 03:59	11/4/2017 04:06	608.00	3,679.00	OTHER, 100 Mesh	1.25	30,117.0	80,868.0
SLURRY	11/4/2017 04:06	11/4/2017 04:13	619.00	4,298.00	BROWN, 40/70	0.75	21,237.0	102,105.0
SLURRY	11/4/2017 04:13	11/4/2017 04:22	714.00	5,012.00	BROWN, 40/70	1.00	31,699.0	133,804.0
SLURRY	11/4/2017 04:22	11/4/2017 04:32	857.00	5,869.00	BROWN, 40/70	1.50	54,170.0	187,974.0
SLURRY	11/4/2017 04:32	11/4/2017 04:43	873.00	6,742.00	BROWN, 40/70	2.00	75,119.0	263,093.0
SLURRY	11/4/2017 04:43	11/4/2017 04:52	738.00	7,480.00	BROWN, 30/50	2.00	62,959.0	326,052.0
SLURRY	11/4/2017 04:52	11/4/2017 05:02	810.00	8,290.00	BROWN, 30/50	2.50	84,016.0	410,068.0
SLURRY	11/4/2017 05:02	11/4/2017 05:13	881.00	9,171.00	BROWN, 30/50	3.00	113,224.0	523,292.0
SLURRY	11/4/2017 05:13	11/4/2017 05:25	990.00	10,161.00	BROWN, 30/50	3.50	83,061.0	606,353.0
FLUSH	11/4/2017 05:25	11/4/2017 05:32	414.00	10,575.00				606,353.0
CLOSE WELLHEAD	11/4/2017 05:32	11/4/2017 05:32		10,575.00				606,353.0

Proppants

Type	Des	Sand Size
BROWN	BULK SAND	40/70
BROWN	BULK SAND	30/50
OTHER	BULK SAND	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	11/3/2017 07:20	4.38	14,636.0	14,638.0			
No	Yes	FRAC PLUG	11/3/2017 12:55	4.38	14,396.0	14,398.0			
No	Yes	FRAC PLUG	11/3/2017 20:37	4.38	14,150.0	14,152.0			

PIONEER

NATURAL RESOURCES

UNIVERSITY 7-43 113H

FRAC FLEET / CREW #

Contractor

PIONEER PUMPING SERVICES

Rig #

BULL PEN

Job:

Report Date:

Report #:

AFE #:

Total AFE + Sup:

Cum Field Estimate:

Daily Field Estimate:

OCM

11/5/2017

11

043124

\$5,296,678.00

\$3,057,089.17

\$296,398.55

SSN

ID00003144

API/UWI

42-003-47567-0000

Property Sub

927638-113

Field Name

SPRABERRY (TREND AREA)

Open Formation

LOWER SPRABERRY SHALE (SPBY L C1)

Spud Date

8/30/2017

TD (max) (ftKB)

19,705.0

Job Category

ORIG COMPLETION

Primary Job Type

OCM

Start Date

10/25/2017

End Date

Job Status

AFE APPROVED

Responsible Grp 2

STIM ENG - JOSH MEASLES

Job Dates

Date

Type

Subtype

Note

10/28/2017

MILESTONE

TURN OVER TO PRODUCTION

11/8/2017

MILESTONE

READY TO START (RTS)

11/8/2017

PLAN

STIMULATION END

Safety Checks

Time

Type

Des

Tour

Com

06:01

MEETING

PRE-TOUR

DAY

Held safety meeting with PPS-4 and all third party vendors. Discussed safety awareness and job duties.

17:30

MEETING

PRE-TOUR

NIGHT

Held safety meeting with PPS-4 and all third party vendors. Discussed safety awareness and job duties.

Daily Contacts on Location

Contact Name

Title

Tour

Mobile

Alt Mobile #

Note

NECAISE, KEVIN

SUPERINTENDE NT

MEASLES, JOSH

ENGINEER

432-214-3508

MILLS, ASHLEY

ENGINEER

DAY

432-214-6782

GREENE, MITCH

ENGINEER

DAY

432-894-7612

TREJO, JEREMIAH

FOREMAN

DAY

682-229-0983

HATHCOAT, ANDREW

SUPERVISOR

DAY

903-439-5529

TRAYLOR, KENDALL

FOREMAN

NIGHT

806-440-2670

BROWN, PERRY

FOREMAN

NIGHT

832-690-7101

Personnel Log

Company

Count

NINE ENERGY SERVICE INC

8

PNR PUMPING SERVICES LLC

24

LIFT CRANE SERVICE LLC

4

NEW WAVE WATER TRANSFER

8

PNR PUMPING SERVICES LLC

7

TETRA TECHNOLOGIES INC

4

Daily Operations

Operations at Report Time

Pumping Stage 28

Daily Goal Description

STAGES PER DAY

Daily Goal - Last 24

4.0

Operations Summary

Below Grade Cellars

Frac Stage(s) 25,26,27

P/P Stage(s) 25,26,27,28

Operations Next Report Period

STIM OPS

Remarks

NO ACCIDENTES 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

06:25

0.42

STIM, OPS

WIRELINE

WL\_RUNDN

RIH

NORMAL

06:25

07:12

0.78

STIM, OPS

WIRELINE

WL\_RUNUP

POOH

NORMAL

07:12

09:33

2.35

STIM, OPS

WIRELINE

WL\_NONOPS

WL 200'

NORMAL

09:33

09:51

0.3

STIM, OPS

SWAPOVER

SWAP\_FRAC

Swap Frac

NORMAL

09:51

12:42

2.85

STIM, OPS

FRAC

STIM

Frac stage 25 / PTD

NORMAL

21

0.43

25

12:42

13:28

0.77

STIM, OPS

SWAPOVER

SWAP\_WL

Swap/Test lube to 9,000 psi/Rehead

NORMAL

13:28

14:05

0.62

STIM, OPS

WIRELINE

WL\_RUNDN

RIH

NORMAL

14:05

14:48

0.72

STIM, OPS

WIRELINE

WL\_RUNUP

POOH

NORMAL

14:48

15:50

1.03

STIM, OPS

WIRELINE

WL\_NONOPS

WL 200'

NORMAL

15:50

17:24

1.57

STIM, OPS

SWAPOVER

SWAP\_FRAC

Swap Frac

NORMAL

22

0.75

17:24

19:45

2.35

STIM, OPS

FRAC

STIM

Frac Stage 26 / PTD

NORMAL

26

19:45

20:03

0.3

STIM, OPS

SWAPOVER

SWAP\_WL

Swap WL

NORMAL

20:03

20:36

0.55

STIM, OPS

WIRELINE

WL\_RUNDN

RIH

NORMAL

20:36

21:20

0.73

STIM, OPS

WIRELINE

WL\_RUNUP

POOH

NORMAL

21:20

23:40

2.33

STIM, OPS

WIRELINE

WL\_NONOPS

WL 200'

NORMAL

23:40

00:27

0.78

STIM, OPS

SWAPOVER

SWAP\_FRAC

Swap Frac

NORMAL

23

0.27

PIONEER

NATURAL RESOURCES

UNIVERSITY 7-43 113H

FRAC FLEET / CREW #

Contractor

PIONEER PUMPING SERVICES

Rig #

4

Job:

Report Date:

Report #:

AFE #:

Total AFE + Sup:

Cum Field Estimate:

Daily Field Estimate:

OCM

11/5/2017

11

043124

\$5,296,678.00

\$3,057,089.17

\$296,398.55

Time Log

Start Time	End Time	Dur (hr)	Phase	Activity	Operation	Com	Ops Category	Prob Ref #	Prob Hrs (hr)	Frac Stage
00:27	02:45	2.3	STIM, OPS	FRAC	STIM	Frac stage 27 - Pumped as designed	NORMAL			27
02:45	01:45	-1	STIM, OPS	WIRELINE	WL_MAINT	Adjustment for daylight savings time	NORMAL			
01:45	02:15	0.5	STIM, OPS	WIRELINE	WL_MAINT	WL Rehead	NORMAL			
02:15	02:22	0.12	STIM, OPS	SWAPOVER	SWAP_WL	Swap WL	NORMAL			
02:22	02:54	0.53	STIM, OPS	WIRELINE	WL_RUNDN	RIH	NORMAL			
02:54	03:19	0.43	STIM, OPS	WIRELINE	WL_RUNUP	POOH	NORMAL			
03:19	05:19	2	STIM, OPS	WIRELINE	WL_NONOPS	WL 200'	NORMAL			
05:19	05:45	0.42	STIM, OPS	SWAPOVER	SWAP_FRAC	Swap frac	NORMAL			
05:45	06:00	0.25	STIM, OPS	FRAC	STIM	Frac stage 28	NORMAL			28

Fluid Summary

Fluid	Cum to Well (bbl)	To well (bbl)	Cum from Well (bbl)	From well (bbl)	Left to recover (bbl)
WELL FLUID	293,199.0	31,983.0			293,199.0

Interval Problems

WIRELINE, LUBRICATOR, OTHER, 11/4/2017 10:24

Ref #	End Date	Dur (Net) (hr)	Excl...	Accountable Party	Est Cost (Cost)	Comment
21	11/4/2017 10:50	0.43	No	PEAK PRESSURE CONTROL LLC		Needle valve leaking during pad. SD and fix issue.

FRAC/STIMULATION EQUIPMENT, PUMPS, OTHER, 11/4/2017 16:35

Ref #	End Date	Dur (Net) (hr)	Excl...	Accountable Party	Est Cost (Cost)	Comment
22	11/4/2017 17:20	0.75	No	PNR PUMPING SERVICES LLC		Pump maintenace not enough pumps to start stage.

FRAC/STIMULATION EQUIPMENT, PUMPS, OTHER, 11/5/2017 00:10

Ref #	End Date	Dur (Net) (hr)	Excl...	Accountable Party	Est Cost (Cost)	Comment
23	11/5/2017 00:26	0.27	No	PNR PUMPING SERVICES LLC		Replaced 3x3 T on pump 11158 Racked out 11805 Flushed manifold on pump 11146

Rigs

Contractor	Rig #	Start Date	RR Date	Rig Type
CDK PERFORATING (NINE ENERGY)		10/26/2017 06:01		WIRELINE
PIONEER PUMPING SERVICES	BULLPEN	10/26/2017 06:01		FRAC FLEET
PIONEER PUMPING SERVICES	4	10/26/2017 06:01		FRAC FLEET

DIESEL, FUEL

Total Received	Total Consumed	Total Returned
52,835.0	52,835.0	0.0

Job Supply Amounts

Date	Supply Item Des	Type	Received	Consumed	Returned	Cum Received	Cum Consumed	Cum Returned
11/4/2017 21:38	DIESEL	FUEL	2,186	2,186	0	48,621.0	48,621.0	0.0
11/4/2017 21:38	DIESEL	FUEL	2,113	2,113	0	50,734.0	50,734.0	0.0
11/4/2017 21:38	DIESEL	FUEL	2,101	2,101	0	52,835.0	52,835.0	0.0

Perforations

Int #	Prop?	Type	Top (ftKB)	Btm (ftKB)	Btm - Top (ft)	Shot Dens (shots/ft)	Entered Shot Total	String Perforated	Com	Cluster #
28	No	CONVENTIONAL PERF	12,974.0	12,976.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		6
28	No	CONVENTIONAL PERF	13,014.0	13,016.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		5
28	No	CONVENTIONAL PERF	13,054.0	13,056.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		4
28	No	CONVENTIONAL PERF	13,094.0	13,096.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		3
28	No	CONVENTIONAL PERF	13,134.0	13,136.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		2
28	No	CONVENTIONAL PERF	13,174.0	13,176.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		1
27	No	CONVENTIONAL PERF	13,214.0	13,216.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		6
27	No	CONVENTIONAL PERF	13,254.0	13,256.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		5
27	No	CONVENTIONAL PERF	13,294.0	13,296.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		4
27	No	CONVENTIONAL PERF	13,334.0	13,336.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		3
27	No	CONVENTIONAL PERF	13,374.0	13,376.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		2
27	No	CONVENTIONAL PERF	13,414.0	13,416.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		1
26	No	CONVENTIONAL PERF	13,454.0	13,456.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		6
26	No	CONVENTIONAL PERF	13,494.0	13,496.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		5



Comment  
Name = STAGE 26, Stage Count = 0

PIONEER

NATURAL RESOURCES

UNIVERSITY 7-43 113H

Job:

Report Date:

Report #:

AFE #:

Total AFE + Sup:

Cum Field Estimate:

Daily Field Estimate:

OCM

11/5/2017

11

043124

\$5,296,678.00

\$3,057,089.17

\$296,398.55

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)
OPEN WELLHEAD	11/4/2017 17:24	11/4/2017 17:26						
ACID SPEARHEAD	11/4/2017 17:26	11/4/2017 17:33	24.00	24.00				
PAD	11/4/2017 17:33	11/4/2017 17:55	1,452.00	1,476.00				
SLURRY	11/4/2017 17:55	11/4/2017 18:01	476.00	1,952.00	BROWN SAND, 100 Mesh	0.50	9,725.0	9,725.0
SLURRY	11/4/2017 18:01	11/4/2017 18:06	524.00	2,476.00	BROWN SAND, 100 Mesh	0.75	14,651.0	24,376.0
SLURRY	11/4/2017 18:06	11/4/2017 18:13	595.00	3,071.00	BROWN SAND, 100 Mesh	1.00	24,265.0	48,641.0
SLURRY	11/4/2017 18:13	11/4/2017 18:21	616.00	3,687.00	BROWN SAND, 100 Mesh	1.25	34,682.0	83,323.0
SLURRY	11/4/2017 18:21	11/4/2017 18:28	619.00	4,306.00	BROWN, 40/70	0.75	18,975.0	102,298.0
SLURRY	11/4/2017 18:28	11/4/2017 18:37	714.00	5,020.00	BROWN, 40/70	1.00	30,376.0	132,674.0
SLURRY	11/4/2017 18:37	11/4/2017 18:47	857.00	5,877.00	BROWN, 40/70	1.50	54,934.0	187,608.0
SLURRY	11/4/2017 18:47	11/4/2017 18:58	926.00	6,803.00	BROWN, 40/70	2.00	75,584.0	263,192.0
SLURRY	11/4/2017 18:58	11/4/2017 19:07	738.00	7,541.00	BROWN, 30/50	2.00	66,017.0	329,209.0
SLURRY	11/4/2017 19:07	11/4/2017 19:17	810.00	8,351.00	BROWN, 30/50	2.50	83,678.0	412,887.0
SLURRY	11/4/2017 19:17	11/4/2017 19:29	881.00	9,232.00	BROWN, 30/50	3.00	112,384.0	525,271.0
SLURRY	11/4/2017 19:29	11/4/2017 19:36	582.00	9,814.00	BROWN, 30/50	3.50	77,285.0	602,556.0
FLUSH	11/4/2017 19:36	11/4/2017 19:41	402.00	10,216.00				602,556.0
CLOSE WELLHEAD	11/4/2017 19:41	11/4/2017 19:41		10,216.00				602,556.0
PUMP DOWN	11/4/2017 20:21	11/4/2017 20:32	184.00	10,400.00				602,556.0

Proppants

Type	Des	Sand Size
BROWN	BULK SAND	40/70
BROWN	BULK SAND	30/50
BROWN SAND	BULK SAND	100 Mesh

Frac Stage 27 on 11/5/2017 00:28

Proposed? No	Type HYDRAULIC FRACTURE	Date 11/5/2017	String (Deployment Method) PRODUCTION, 19,690.0ftKB	Top Depth (ftKB) 13,214.0	Bottom Depth (ftKB) 13,416.0		
Post Job Frac Gradient (...) 0.72	Pump Power Max (hp)	Proppant Designed (lb)	Proppant In Formation (lb) 615,364.0	Proppant In Wellbore (lb)	Proppant Total (lb) 615,364.0	Clean Volume Design (bbl)	Total Clean Volume (bbl) 10,526.00
Open Wellhead (psi) 775.0	End of Job ISIP (psi) 2,761.0	Close Wellhead (psi) 2,642.0	Breakdown Pressure (psi) 4,387.0	Max Treating Pressure (...) 8,607.0	Avg Treating Pressure (...) 6,462.0	Max Slurry Rate (bbl/min) 90	Avg Slurry Rate (bbl/min) 89

Comment

Name = STAGE 27, Stage Count = 4

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)
OPEN WELLHEAD	11/5/2017 00:28	11/5/2017 00:30						
ACID SPEARHEAD	11/5/2017 00:30	11/5/2017 00:33	24.00	24.00				
PAD	11/5/2017 00:33	11/5/2017 00:55	1,452.00	1,476.00				
SLURRY	11/5/2017 00:55	11/5/2017 01:01	476.00	1,952.00	BROWN SAND, 100 Mesh	0.50	9,214.0	9,214.0
SLURRY	11/5/2017 01:01	11/5/2017 01:06	524.00	2,476.00	BROWN SAND, 100 Mesh	0.75	17,011.0	26,225.0
SLURRY	11/5/2017 01:06	11/5/2017 01:13	595.00	3,071.00	BROWN SAND, 100 Mesh	1.00	23,923.0	50,148.0
SLURRY	11/5/2017 01:13	11/5/2017 01:20	589.00	3,660.00	BROWN SAND, 100 Mesh	1.25	30,875.0	81,023.0
SLURRY	11/5/2017 01:20	11/5/2017 01:27	619.00	4,279.00	BROWN, 40/70	0.75	22,122.0	103,145.0
SLURRY	11/5/2017 01:27	11/5/2017 01:35	714.00	4,993.00	BROWN, 40/70	1.00	27,219.0	130,364.0
SLURRY	11/5/2017 01:35	11/5/2017 01:46	857.00	5,850.00	BROWN, 40/70	1.50	54,630.0	184,994.0
SLURRY	11/5/2017 01:46	11/5/2017 01:57	907.00	6,757.00	BROWN, 40/70	2.00	77,172.0	262,166.0
SLURRY	11/5/2017 01:57	11/5/2017 02:06	738.00	7,495.00	BROWN, 30/50	2.00	65,740.0	327,906.0
SLURRY	11/5/2017 02:06	11/5/2017 02:16	810.00	8,305.00	BROWN, 30/50	2.50	82,912.0	410,818.0
SLURRY	11/5/2017 02:16	11/5/2017 02:27	881.00	9,186.00	BROWN, 30/50	3.00	102,324.0	513,142.0
SLURRY	11/5/2017 02:27	11/5/2017 02:37	762.00	9,948.00	BROWN, 30/50	3.50	102,222.0	615,364.0
FLUSH	11/5/2017 02:37	11/5/2017 02:43	398.00	10,346.00				615,364.0
CLOSE WELLHEAD	11/5/2017 02:43	11/5/2017 02:43		10,346.00				615,364.0
PUMP DOWN	11/5/2017 02:50	11/5/2017 02:52	180.00	10,526.00				615,364.0

Proppants

Type	Des	Sand Size
BROWN	BULK SAND	40/70
BROWN	BULK SAND	30/50
BROWN SAND	BULK SAND	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	11/4/2017 06:25	4.38	13,916.0	13,918.0			
No	Yes	FRAC PLUG	11/4/2017 14:05	4.38	13,676.0	13,678.0			
No	Yes	FRAC PLUG	11/4/2017 20:32	4.38	13,436.0	13,438.0			
No	Yes	FRAC PLUG	11/5/2017 02:50	4.38	13,196.0	13,198.0			

PIONEER

NATURAL RESOURCES

UNIVERSITY 7-43 113H

FRAC FLEET / CREW #

Contractor

PIONEER PUMPING SERVICES

Rig #

BULL PEN

Job:

Report Date:

Report #:

AFE #:

Total AFE + Sup:

Cum Field Estimate:

Daily Field Estimate:

OCM

11/6/2017

12

043124

\$5,296,678.00

\$3,444,787.72

\$387,698.55

SSN

ID00003144

API/UWI

42-003-47567-0000

Property Sub

927638-113

Field Name

SPRABERRY (TREND AREA)

Open Formation

LOWER SPRABERRY SHALE (SPBY L C1)

Spud Date

8/30/2017

TD (max) (ftKB)

19,705.0

Job Category

ORIG COMPLETION

Primary Job Type

OCM

Start Date

10/25/2017

End Date

Job Status

AFE APPROVED

Responsible Grp 2

STIM ENG - JOSH MEASLES

Job Dates

Date

Type

Subtype

Note

10/28/2017

MILESTONE

TURN OVER TO PRODUCTION

11/8/2017

MILESTONE

READY TO START (RTS)

11/8/2017

PLAN

STIMULATION END

Safety Checks

Time

Type

Des

Tour

Com

06:01

MEETING

PRE-TOUR

DAY

Held safety meeting with PPS-4 and all third party vendors. Discussed safety awareness and job duties.

17:30

MEETING

PRE-TOUR

NIGHT

Held safety meeting with PPS-4 and all third party vendors. Discussed safety awareness and job duties.

Daily Contacts on Location

Contact Name

Title

Tour

Mobile

Alt Mobile #

Note

NECAISE, KEVIN

SUPERINTENDE NT

MEASLES, JOSH

ENGINEER

432-214-3508

MILLS, ASHLEY

ENGINEER

DAY

432-214-6782

GREENE, MITCH

ENGINEER

DAY

432-894-7612

TREJO, JEREMIAH

FOREMAN

DAY

682-229-0983

HATHCOAT, ANDREW

SUPERVISOR

DAY

903-439-5529

TRAYLOR, KENDALL

FOREMAN

NIGHT

806-440-2670

BROWN, PERRY

FOREMAN

NIGHT

832-690-7101

Personnel Log

Company

Count

NINE ENERGY SERVICE INC

8

PNR PUMPING SERVICES LLC

24

LIFT CRANE SERVICE LLC

4

NEW WAVE WATER TRANSFER

8

PNR PUMPING SERVICES LLC

7

TETRA TECHNOLOGIES INC

4

Daily Operations

Operations at Report Time

Pumping Stage 32

Daily Goal Description

STAGES PER DAY

Daily Goal - Last 24

4.0

Operations Summary

Below Grade Cellars

Frac Stage(s) 28,29,30,31

P/P Stage(s) 29,30,31,32

Operations Next Report Period

STIM OPS

Remarks

NO ACCIDENTES 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

08:18

2.3

STIM, OPS

FRAC

STIM

Frac stage 28 / PTD

NORMAL

28

08:18

08:36

0.3

STIM, OPS

SWAPOVER

SWAP\_WL

Swap/Test lube to 9,000 psi/Rehead

NORMAL

08:36

09:15

0.65

STIM, OPS

WIRELINE

WL\_RUNDN

RIH

NORMAL

09:15

09:40

0.43

STIM, OPS

WIRELINE

WL\_RUNUP

POOH

NORMAL

09:40

10:51

1.17

STIM, OPS

WIRELINE

WL\_NONOPS

WL 200'

NORMAL

10:51

11:22

0.52

STIM, OPS

SWAPOVER

SWAP\_FRAC

Swap Frac

NORMAL

11:22

13:35

2.22

STIM, OPS

FRAC

STIM

Frac Stage 29 / PTD

NORMAL

29

13:35

14:13

0.63

STIM, OPS

SWAPOVER

SWAP\_WL

Swap/Test lube to 9,000 psi/Rehead

NORMAL

14:13

14:45

0.53

STIM, OPS

WIRELINE

WL\_RUNDN

RIH

NORMAL

14:45

15:18

0.55

STIM, OPS

WIRELINE

WL\_RUNUP

POOH

NORMAL

15:18

16:49

1.53

STIM, OPS

WIRELINE

WL\_NONOPS

WL 200'

NORMAL

16:49

17:24

0.58

STIM, OPS

SWAPOVER

SWAP\_FRAC

Swap Frac

NORMAL

17:24

19:50

2.43

STIM, OPS

FRAC

STIM

Frac Stage 30 - Lost Blender hopper on multiple sand stages due to operator error.

NORMAL

30

19:50

20:03

0.22

STIM, OPS

SWAPOVER

SWAP\_WL

Swap WL

NORMAL

20:03

20:37

0.57

STIM, OPS

WIRELINE

WL\_RUNDN

WL down

NORMAL

20:37

21:07

0.5

STIM, OPS

WIRELINE

WL\_RUNUP

WL up

NORMAL

PIONEER

NATURAL RESOURCES

UNIVERSITY 7-43 113H

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

OCM  
11/6/2017  
12  
043124  
\$5,296,678.00  
\$3,444,787.72  
\$387,698.55

FRAC FLEET / CREW #

Contractor  
PIONEER PUMPING SERVICES

Rig #  
4

Time Log

Start Time	End Time	Dur (hr)	Phase	Activity	Operation	Com	Ops Category	Prob Ref #	Prob Hrs (hr)	Frac Stage
21:07	22:51	1.72	STIM, OPS	WIRELINE	WL_NONOPS	WL 200'	NORMAL			
22:51	23:25	0.57	STIM, OPS	SWAPOVER	SWAP_FRAC	Swap Frac	NORMAL			
23:25	01:40	2.25	STIM, OPS	FRAC	STIM	Frac Stage 31	NORMAL			31
01:40	02:01	0.35	STIM, OPS	WIRELINE	WL_MAINT	WL rehead	NORMAL			
02:01	02:13	0.2	STIM, OPS	SWAPOVER	SWAP_WL	Swap WL	NORMAL			
02:13	02:43	0.5	STIM, OPS	WIRELINE	WL_RUNDN	RIH	NORMAL			
02:43	03:30	0.78	STIM, OPS	WIRELINE	WL_RUNUP	POOH	NORMAL			
03:30	04:45	1.25	STIM, OPS	WIRELINE	WL_NONOPS	WL 200'	NORMAL			
04:45	05:15	0.5	STIM, OPS	SWAPOVER	SWAP_FRAC	Swap Frac	NORMAL			
05:15	06:00	0.75	STIM, OPS	FRAC	STIM	Frac Stage 32	NORMAL			32

Fluid Summary

Fluid	Cum to Well (bbl)	To well (bbl)	Cum from Well (bbl)	From well (bbl)	Left to recover (bbl)
WELL FLUID	336,166.0	42,967.0			336,166.0

Interval Problems

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

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

Contractor	Rig #	Start Date	RR Date	Rig Type
CDK PERFORATING (NINE ENERGY)		10/26/2017 06:01		WIRELINE
PIONEER PUMPING SERVICES	BULLPEN	10/26/2017 06:01		FRAC FLEET
PIONEER PUMPING SERVICES	4	10/26/2017 06:01		FRAC FLEET

DIESEL, FUEL

Total Received	Total Consumed	Total Returned
65,291.0	65,291.0	0.0

Job Supply Amounts

Date	Supply Item Des	Type	Received	Consumed	Returned	Cum Received	Cum Consumed	Cum Returned
11/6/2017 04:06	DIESEL	FUEL	2,074	2,074	0	54,909.0	54,909.0	0.0
11/6/2017 04:06	DIESEL	FUEL	2,080	2,080	0	56,989.0	56,989.0	0.0
11/6/2017 04:06	DIESEL	FUEL	1,805	1,805	0	58,794.0	58,794.0	0.0
11/6/2017 04:08	DIESEL	FUEL	2,145	2,145	0	60,939.0	60,939.0	0.0
11/6/2017 04:08	DIESEL	FUEL	2,308	2,308	0	63,247.0	63,247.0	0.0
11/6/2017 04:08	DIESEL	FUEL	2,044	2,044	0	65,291.0	65,291.0	0.0

Perforations

Int #	Prop?	Type	Top (ftKB)	Btm (ftKB)	Btm - Top (ft)	Shot Dens (shots/ft)	Entered Shot Total	String Perforated	Com	Cluster #
32	No	CONVENTIONAL PERF	12,014.0	12,016.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		6
32	No	CONVENTIONAL PERF	12,054.0	12,056.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		5
32	No	CONVENTIONAL PERF	12,094.0	12,096.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		4
32	No	CONVENTIONAL PERF	12,134.0	12,136.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		3
32	No	CONVENTIONAL PERF	12,174.0	12,176.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		2
32	No	CONVENTIONAL PERF	12,214.0	12,216.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		1
31	No	CONVENTIONAL PERF	12,258.0	12,260.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		6
31	No	CONVENTIONAL PERF	12,294.0	12,296.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		5
31	No	CONVENTIONAL PERF	12,334.0	12,336.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		4
31	No	CONVENTIONAL PERF	12,374.0	12,376.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		3
31	No	CONVENTIONAL PERF	12,414.0	12,416.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		2
31	No	CONVENTIONAL PERF	12,454.0	12,456.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		1
30	No	CONVENTIONAL PERF	12,494.0	12,496.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		6
30	No	CONVENTIONAL PERF	12,534.0	12,536.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		5
30	No	CONVENTIONAL PERF	12,574.0	12,576.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		4
30	No	CONVENTIONAL PERF	12,614.0	12,616.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		3



PIONEER

NATURAL RESOURCES

UNIVERSITY 7-43 113H

Job:

Report Date:

Report #:

AFE #:

Total AFE + Sup:

Cum Field Estimate:

Daily Field Estimate:

OCM

11/6/2017

12

043124

\$5,296,678.00

\$3,444,787.72

\$387,698.55

Perforations

Int #	Prop?	Type	Top (ftKB)	Btm (ftKB)	Btm - Top (ft)	Shot Dens (shots/ft)	Entered Shot Total	String Perforated	Com	Cluster #
30	No	CONVENTIONAL PERF	12,654.0	12,656.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		2
30	No	CONVENTIONAL PERF	12,694.0	12,696.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		1
29	No	CONVENTIONAL PERF	12,734.0	12,736.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		6
29	No	CONVENTIONAL PERF	12,774.0	12,776.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		5
29	No	CONVENTIONAL PERF	12,814.0	12,816.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		4
29	No	CONVENTIONAL PERF	12,854.0	12,856.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		3
29	No	CONVENTIONAL PERF	12,894.0	12,896.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		2
29	No	CONVENTIONAL PERF	12,934.0	12,936.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		1

Stimulations Summary

Stim/Treat Company		Diverson Company		Diverson Method		Start Date		End Date		Job	
PIONEER PUMPING SERVICES				COMPOSITE PLUG		10/28/2017 02:30				OCM, 10/25/2017 06:00	
Number of Treatment Intervals		Design Number of Treatment Intervals		Volume Clean Total (bbl)				Proppant Total (lb)			
32		42		334,390.00				18,692,820.0			

Stimulation Intervals

Frac Stage 29 on 11/5/2017 11:22

Proposed? No	Type HYDRAULIC FRACTURE	Date 11/5/2017		String (Deployment Method) PRODUCTION, 19,690.0ftKB			Top Depth (ftKB) 12,734.0		Bottom Depth (ftKB) 12,936.0			
Post Job Frac Gradient (...) 0.72		Pump Power Max (hp)		Proppant Designed (lb)		Proppant In Formation (lb) 603,388.0		Proppant In Wellbore (lb)		Proppant Total (lb) 603,388.0	Clean Volume Design (bbl)	Total Clean Volume (bbl) 10,321.00
Open Wellhead (psi) 959.0		End of Job ISIP (psi) 2,719.0		Close Wellhead (psi) 2,626.0		Breakdown Pressure (psi) 4,217.0		Max Treating Pressure (...) 8,837.0		Avg Treating Pressure (...) 6,623.0	Max Slurry Rate (bbl/min) 90.7	Avg Slurry Rate (bbl/min) 90.1

Comment

Name = STAGE 29, Stage Count = 5

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)
OPEN WELLHEAD	11/5/2017 11:22	11/5/2017 11:23						
ACID SPEARHEAD	11/5/2017 11:23	11/5/2017 11:29	24.00	24.00				
PAD	11/5/2017 11:29	11/5/2017 11:49	1,452.00	1,476.00				
SLURRY	11/5/2017 11:49	11/5/2017 11:55	476.00	1,952.00	OTHER, 100 Mesh	1.00	9,746.0	9,746.0
SLURRY	11/5/2017 11:55	11/5/2017 12:01	524.00	2,476.00	OTHER, 100 Mesh	0.75	16,023.0	25,769.0
SLURRY	11/5/2017 12:01	11/5/2017 12:07	595.00	3,071.00	OTHER, 100 Mesh	1.00	25,939.0	51,708.0
SLURRY	11/5/2017 12:07	11/5/2017 12:15	576.00	3,647.00	OTHER, 100 Mesh	1.25	30,284.0	81,992.0
SLURRY	11/5/2017 12:15	11/5/2017 12:22	619.00	4,266.00	BROWN, 40/70	0.75	19,919.0	101,911.0
SLURRY	11/5/2017 12:22	11/5/2017 12:30	714.00	4,980.00	BROWN, 40/70	1.00	31,496.0	133,407.0
SLURRY	11/5/2017 12:30	11/5/2017 12:40	857.00	5,837.00	BROWN, 40/70	1.50	54,116.0	187,523.0
SLURRY	11/5/2017 12:40	11/5/2017 12:52	890.00	6,727.00	BROWN, 40/70	2.00	76,138.0	263,661.0
SLURRY	11/5/2017 12:52	11/5/2017 13:00	738.00	7,465.00	BROWN, 30/50	2.00	62,463.0	326,124.0
SLURRY	11/5/2017 13:00	11/5/2017 13:10	810.00	8,275.00	BROWN, 30/50	2.50	81,159.0	407,283.0
SLURRY	11/5/2017 13:10	11/5/2017 13:21	881.00	9,156.00	BROWN, 30/50	3.00	107,911.0	515,194.0
SLURRY	11/5/2017 13:21	11/5/2017 13:29	635.00	9,791.00	BROWN, 30/50	3.50	88,194.0	603,388.0
FLUSH	11/5/2017 13:29	11/5/2017 13:35	387.00	10,178.00				603,388.0
CLOSE WELLHEAD	11/5/2017 13:35	11/5/2017 13:35		10,178.00				603,388.0
PUMP DOWN	11/5/2017 14:13	11/5/2017 14:45	143.00	10,321.00				603,388.0

Proppants

Type	Des	Sand Size
BROWN	BULK SAND	40/70
BROWN	BULK SAND	30/50
OTHER	BULK SAND	100 Mesh

Frac Stage 30 on 11/5/2017 17:24

Proposed? No	Type HYDRAULIC FRACTURE	Date 11/5/2017		String (Deployment Method) PRODUCTION, 19,690.0ftKB			Top Depth (ftKB) 12,494.0		Bottom Depth (ftKB) 12,696.0			
Post Job Frac Gradient (...) 0.74		Pump Power Max (hp)		Proppant Designed (lb)		Proppant In Formation (lb) 601,372.0		Proppant In Wellbore (lb)		Proppant Total (lb) 601,372.0	Clean Volume Design (bbl)	Total Clean Volume (bbl) 11,314.00
Open Wellhead (psi) 895.0		End of Job ISIP (psi) 2,959.0		Close Wellhead (psi) 2,618.0		Breakdown Pressure (psi) 3,907.0		Max Treating Pressure (...) 7,168.0		Avg Treating Pressure (...) 6,417.0	Max Slurry Rate (bbl/min) 90	Avg Slurry Rate (bbl/min) 89

Comment

Name = STAGE 30, Stage Count = 1

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)
OPEN WELLHEAD	11/5/2017 17:24	11/5/2017 17:25						
ACID SPEARHEAD	11/5/2017 17:25	11/5/2017 17:30	24.00	24.00				
PAD	11/5/2017 17:30	11/5/2017 17:52	1,452.00	1,476.00				
SLURRY	11/5/2017 17:52	11/5/2017 17:58	476.00	1,952.00	BROWN SAND, 100 Mesh	0.50	7,765.0	7,765.0



PIONEER  
NATURAL RESOURCES

UNIVERSITY 7-43 113H

Job: OCM  
Report Date: 11/6/2017  
Report #: 12  
AFE #: 043124  
Total AFE + Sup: \$5,296,678.00  
Cum Field Estimate: \$3,444,787.72  
Daily Field Estimate: \$387,698.55

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)
SLURRY	11/5/2017 17:58	11/5/2017 18:04	524.00	2,476.00	BROWN SAND, 100 Mesh	0.75	14,460.0	22,225.0
SLURRY	11/5/2017 18:04	11/5/2017 18:12	595.00	3,071.00	BROWN SAND, 100 Mesh	1.00	25,555.0	47,780.0
SLURRY	11/5/2017 18:12	11/5/2017 18:18	629.00	3,700.00	BROWN SAND, 100 Mesh	1.25	32,708.0	80,488.0
SLURRY	11/5/2017 18:18	11/5/2017 18:25	619.00	4,319.00	BROWN, 40/70	0.75	22,131.0	102,619.0
SLURRY	11/5/2017 18:25	11/5/2017 18:34	714.00	5,033.00	BROWN, 40/70	1.00	29,669.0	132,288.0
SLURRY	11/5/2017 18:34	11/5/2017 18:44	857.00	5,890.00	BROWN, 40/70	1.50	52,296.0	184,584.0
SLURRY	11/5/2017 18:44	11/5/2017 19:01	1,420.00	7,310.00	BROWN, 40/70	2.00	86,646.0	271,230.0
SLURRY	11/5/2017 19:01	11/5/2017 19:09	651.00	7,961.00	BROWN, 30/50	2.00	52,508.0	323,738.0
SLURRY	11/5/2017 19:09	11/5/2017 19:19	810.00	8,771.00	BROWN, 30/50	2.50	87,602.0	411,340.0
SLURRY	11/5/2017 19:19	11/5/2017 19:30	881.00	9,652.00	BROWN, 30/50	3.00	87,419.0	498,759.0
SLURRY	11/5/2017 19:30	11/5/2017 19:43	1,149.00	10,801.00	BROWN, 30/50	3.50	102,613.0	601,372.0
FLUSH	11/5/2017 19:43	11/5/2017 19:49	383.00	11,184.00				601,372.0
CLOSE WELLHEAD	11/5/2017 19:49	11/5/2017 19:49		11,184.00				601,372.0
PUMP DOWN	11/5/2017 20:25	11/5/2017 20:33	130.00	11,314.00				601,372.0

Proppants

Type	Des	Sand Size
BROWN	BULK SAND	40/70
BROWN	BULK SAND	30/50
BROWN SAND	BULK SAND	100 Mesh

Frac Stage 31 on 11/5/2017 23:26

Proposed? No	Type HYDRAULIC FRACTURE	Date 11/5/2017	String (Deployment Method) PRODUCTION, 19,690.0ftKB			Top Depth (ftKB) 12,254.0	Bottom Depth (ftKB) 12,456.0
Post Job Frac Gradient (...) 0.81	Pump Power Max (hp)	Proppant Designed (lb)	Proppant In Formation (lb) 604,980.0	Proppant In Wellbore (lb)	Proppant Total (lb) 604,980.0	Clean Volume Design (bbl)	Total Clean Volume (bbl) 10,321.00
Open Wellhead (psi) 879.0	End of Job ISIP (psi) 3,575.0	Close Wellhead (psi) 3,204.0	Breakdown Pressure (psi) 4,047.0	Max Treating Pressure (...) 7,328.0	Avg Treating Pressure (...) 6,579.0	Max Slurry Rate (bbl/min) 90	Avg Slurry Rate (bbl/min) 89

Comment  
Name = STAGE 31, Stage Count = 0

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)
OPEN WELLHEAD	11/5/2017 23:26	11/5/2017 23:28						
ACID SPEARHEAD	11/5/2017 23:28	11/5/2017 23:31	24.00	24.00				
PAD	11/5/2017 23:31	11/5/2017 23:52	1,452.00	1,476.00				
SLURRY	11/5/2017 23:52	11/5/2017 23:58	476.00	1,952.00	BROWN SAND, 100 Mesh	0.50	9,608.0	9,608.0
SLURRY	11/5/2017 23:58	11/6/2017 00:04	524.00	2,476.00	BROWN SAND, 100 Mesh	0.75	16,112.0	25,720.0
SLURRY	11/6/2017 00:04	11/6/2017 00:10	595.00	3,071.00	BROWN SAND, 100 Mesh	1.00	25,583.0	51,303.0
SLURRY	11/6/2017 00:10	11/6/2017 00:17	583.00	3,654.00	BROWN SAND, 100 Mesh	1.25	30,048.0	81,351.0
SLURRY	11/6/2017 00:17	11/6/2017 00:24	619.00	4,273.00	BROWN, 40/70	0.75	20,353.0	101,704.0
SLURRY	11/6/2017 00:24	11/6/2017 00:32	714.00	4,987.00	BROWN, 40/70	1.00	31,694.0	133,398.0
SLURRY	11/6/2017 00:32	11/6/2017 00:42	857.00	5,844.00	BROWN, 40/70	1.50	54,649.0	188,047.0
SLURRY	11/6/2017 00:42	11/6/2017 00:53	928.00	6,772.00	BROWN, 40/70	2.00	77,888.0	265,935.0
SLURRY	11/6/2017 00:53	11/6/2017 01:02	738.00	7,510.00	BROWN, 30/50	2.00	60,215.0	326,150.0
SLURRY	11/6/2017 01:02	11/6/2017 01:12	810.00	8,320.00	BROWN, 30/50	2.50	85,484.0	411,634.0
SLURRY	11/6/2017 01:12	11/6/2017 01:24	881.00	9,201.00	BROWN, 30/50	3.00	109,275.0	520,909.0
SLURRY	11/6/2017 01:24	11/6/2017 01:31	619.00	9,820.00	BROWN, 30/50	3.50	84,071.0	604,980.0
FLUSH	11/6/2017 01:31	11/6/2017 01:37	381.00	10,201.00				604,980.0
CLOSE WELLHEAD	11/6/2017 01:37	11/6/2017 01:37		10,201.00				604,980.0
PUMP DOWN	11/6/2017 02:31	11/6/2017 02:39	120.00	10,321.00				604,980.0

Proppants

Type	Des	Sand Size
BROWN	BULK SAND	40/70
BROWN	BULK SAND	30/50
BROWN SAND	BULK SAND	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	11/5/2017 09:10	4.38	12,956.0	12,958.0			
No	Yes	FRAC PLUG	11/5/2017 14:45	4.38	12,716.0	12,718.0			
No	Yes	FRAC PLUG	11/5/2017 20:33	4.38	12,478.0	12,480.0			
No	Yes	FRAC PLUG	11/6/2017 02:39	4.38	12,236.0	12,238.0			

<div>PIONEER NATURAL RESOURCES</div>			<div>UNIVERSITY 7-43 113H</div>			<div>Job: OCM Report Date: 11/7/2017 Report #: 13 AFE #: 043124 Total AFE + Sup: \$5,296,678.00 Cum Field Estimate: \$3,823,735.81 Daily Field Estimate: \$378,908.09</div>							
<div>FRAC FLEET / CREW #</div>													
Contractor				Rig #									
PIONEER PUMPING SERVICES				BULL PEN									
SSN ID00003144		API/UWI 42-003-47567-0000		Property Sub 927638-113		Field Name SPRABERRY (TREND AREA)		Open Formation LOWER SPRABERRY SHALE (SPBY L C1)		Spud Date 8/30/2017		TD (max) (ftKB) 19,705.0	
Job Category ORIG COMPLETION			Primary Job Type OCM		Start Date 10/25/2017		End Date		Job Status AFE APPROVED		Responsible Grp 2 STIM ENG - JOSH MEASLES		
Job Dates													
Date		Type MILESTONE				Subtype TURN OVER TO PRODUCTION				Note			
Date 10/28/2017		Type MILESTONE				Subtype READY TO START (RTS)				Note			
Date 11/8/2017		Type PLAN				Subtype STIMULATION END				Note			
Safety Checks													
Time		Type		Des		Tour		Com					
06:01		MEETING		PRE-TOUR		DAY		Held safety meeting with PPS-4 and all third party vendors. Discussed safety awareness and job duties.					
17:30		MEETING		PRE-TOUR		NIGHT		Held safety meeting with PPS-4 and all third party vendors. Discussed safety awareness and job duties.					
Daily Contacts on Location													
Contact Name			Title			Tour		Mobile		Alt Mobile #		Note	
NECAISE, KEVIN			SUPERINTENDE NT										
MEASLES, JOSH			ENGINEER					432-214-3508					
MILLS, ASHLEY			ENGINEER			DAY		432-214-6782					
GREENE, MITCH			ENGINEER			DAY		432-894-7612					
TREJO, JEREMIAH			FOREMAN			DAY		682-229-0983					
HATHCOAT, ANDREW			SUPERVISOR			DAY		903-439-5529					
TRAYLOR, KENDALL			FOREMAN			NIGHT		806-440-2670					
BROWN, PERRY			FOREMAN			NIGHT		832-690-7101					
Personnel Log													
Company										Count			
NINE ENERGY SERVICE INC										8			
PNR PUMPING SERVICES LLC										24			
LIFT CRANE SERVICE LLC										4			
NEW WAVE WATER TRANSFER										8			
PNR PUMPING SERVICES LLC										7			
TETRA TECHNOLOGIES INC										4			
Daily Operations													
Operations at Report Time Pumping Stage 36								Daily Goal Description STAGES PER DAY			Daily Goal - Last 24 4.0		
Operations Summary Below Grade Wellhead Frac Stage(s) 32,33,34,35 P/P Stage(s) 33,34,35,36													
Operations Next Report Period STIM OPS													
Remarks NO ACCIDENTES 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	07:31	1.52	STIM, OPS	FRAC	STIM	Frac stage 32 / PTD		NORMAL			32		
07:31	07:46	0.25	STIM, OPS	SWAPOVER	SWAP_WL	Swap/Test lube to 9,000 psi		NORMAL					
07:46	08:20	0.57	STIM, OPS	WIRELINE	WL_RUNDN	RIH		NORMAL					
08:20	08:49	0.48	STIM, OPS	WIRELINE	WL_RUNUP	POOH		NORMAL					
08:49	10:13	1.4	STIM, OPS	WIRELINE	WL_NONOPS	WL 200'		NORMAL					
10:13	10:43	0.5	STIM, OPS	SWAPOVER	SWAP_FRAC	Swap Frac		NORMAL					
10:43	13:00	2.28	STIM, OPS	FRAC	STIM	Frac stage 33 / PTD		NORMAL			33		
13:00	13:37	0.63	STIM, OPS	SWAPOVER	SWAP_WL	Swap/Test lube to 9,000 psi/Rehead		NORMAL					
13:37	14:09	0.53	STIM, OPS	WIRELINE	WL_RUNDN	RIH		NORMAL					
14:09	14:40	0.51	STIM, OPS	WIRELINE	WL_RUNUP	POOH		NORMAL					
14:40	16:03	1.38	STIM, OPS	WIRELINE	WL_NONOPS	WL 200'		NORMAL					
16:03	16:40	0.62	STIM, OPS	SWAPOVER	SWAP_FRAC	Swap Frac		NORMAL					
16:40	17:00	0.33	STIM, OPS	FRAC	STIM	Frac Stage 34 / PTD		NORMAL			34		
17:00	19:16	2.27	STIM, OPS	SWAPOVER	SWAP_WL	Swap/Test lube to 9,000 psi/Rehead		NORMAL					
19:16	19:30	0.23	STIM, OPS	WIRELINE	WL_RUNDN	RIH		NORMAL					
19:30	20:55	1.42	STIM, OPS	WIRELINE	WL_RUNUP	POOH		NORMAL	24	0.33			

PIONEER

NATURAL RESOURCES

UNIVERSITY 7-43 113H

FRAC FLEET / CREW #

Contractor

PIONEER PUMPING SERVICES

Rig #

4

Job:

Report Date:

Report #:

AFE #:

Total AFE + Sup:

Cum Field Estimate:

Daily Field Estimate:

OCM

11/7/2017

13

043124

\$5,296,678.00

\$3,823,735.81

\$378,908.09

Time Log

Start Time	End Time	Dur (hr)	Phase	Activity	Operation	Com	Ops Category	Prob Ref #	Prob Hrs (hr)	Frac Stage
20:55	22:38	1.72	STIM, OPS	WIRELINE	WL_NONOPS	WL 200'	NORMAL			
22:38	23:24	0.77	STIM, OPS	SWAPOVER	SWAP_FRAC	Swap Frac	NORMAL	25	0.25	
23:24	01:36	2.2	STIM, OPS	FRAC	STIM	Frac Stage 35 - PTD	NORMAL			35
01:36	01:55	0.32	STIM, OPS	WIRELINE	WL_MAINT	WL Rehead	NORMAL			
01:55	02:04	0.15	STIM, OPS	SWAPOVER	SWAP_WL	Swap WL	NORMAL			
02:04	02:45	0.67	STIM, OPS	WIRELINE	WL_RUNDN	RIH	NORMAL			
02:45	03:12	0.45	STIM, OPS	WIRELINE	WL_RUNUP	POOH	NORMAL			
03:12	04:46	1.57	STIM, OPS	WIRELINE	WL_NONOPS	WL 200'	NORMAL			
04:46	05:16	0.5	STIM, OPS	SWAPOVER	SWAP_FRAC	Swap Frac	NORMAL			
05:16	06:00	0.74	STIM, OPS	FRAC	STIM	Frac Stage 36 - PTD	NORMAL			36

Fluid Summary

Fluid	Cum to Well (bbl)	To well (bbl)	Cum from Well (bbl)	From well (bbl)	Left to recover (bbl)
WELL FLUID	377,265.0	41,099.0			377,265.0

Interval Problems

WIRELINE, E-LINE, OTHER, 11/6/2017 19:38

Ref #	End Date	Dur (Net) (hr)	Excl...	Accountable Party	Est Cost (Cost)	Comment
24	11/6/2017 19:58	0.33	No	NINE ENERGY SERVICE INC		Guns reading short on the negative side. Bad diode

FRAC/STIMULATION EQUIPMENT, PUMPS, OTHER, 11/6/2017 23:08

Ref #	End Date	Dur (Net) (hr)	Excl...	Accountable Party	Est Cost (Cost)	Comment
25	11/6/2017 23:23	0.25	No	PNR PUMPING SERVICES LLC		Replaced sanded off hose on pump 11025, Replaced transducer on pump 11144, Racked out pump 11181

Rigs

Contractor	Rig #	Start Date	RR Date	Rig Type
CDK PERFORATING (NINE ENERGY)		10/26/2017 06:01		WIRELINE
PIONEER PUMPING SERVICES	BULLPEN	10/26/2017 06:01		FRAC FLEET
PIONEER PUMPING SERVICES	4	10/26/2017 06:01		FRAC FLEET

DIESEL, FUEL

Total Received	Total Consumed	Total Returned
65,291.0	65,291.0	0.0

Perforations

Int #	Prop?	Type	Top (ftKB)	Btm (ftKB)	Btm - Top (ft)	Shot Dens (shots/ft)	Entered Shot Total	String Perforated	Com	Cluster #
36	No	CONVENTIONAL PERF	11,054.0	11,056.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		6
36	No	CONVENTIONAL PERF	11,094.0	11,096.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		5
36	No	CONVENTIONAL PERF	11,134.0	11,136.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		4
36	No	CONVENTIONAL PERF	11,174.0	11,176.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		3
36	No	CONVENTIONAL PERF	11,214.0	11,216.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		2
36	No	CONVENTIONAL PERF	11,254.0	11,256.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		1
35	No	CONVENTIONAL PERF	11,294.0	11,296.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		6
35	No	CONVENTIONAL PERF	11,334.0	11,336.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		5
35	No	CONVENTIONAL PERF	11,374.0	11,376.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		4
35	No	CONVENTIONAL PERF	11,410.0	11,412.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		3
35	No	CONVENTIONAL PERF	11,454.0	11,456.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		2
35	No	CONVENTIONAL PERF	11,494.0	11,496.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		1
34	No	CONVENTIONAL PERF	11,534.0	11,536.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		6
34	No	CONVENTIONAL PERF	11,574.0	11,576.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		5
34	No	CONVENTIONAL PERF	11,614.0	11,616.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		4
34	No	CONVENTIONAL PERF	11,654.0	11,656.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		3
34	No	CONVENTIONAL PERF	11,694.0	11,696.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		2
34	No	CONVENTIONAL PERF	11,734.0	11,736.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		1

PIONEER

NATURAL RESOURCES

UNIVERSITY 7-43 113H

Job:

Report Date:

Report #:

AFE #:

Total AFE + Sup:

Cum Field Estimate:

Daily Field Estimate:

OCM

11/7/2017

13

043124

\$5,296,678.00

\$3,823,735.81

\$378,908.09

Perforations

Int #	Prop?	Type	Top (ftKB)	Btm (ftKB)	Btm - Top (ft)	Shot Dens (shots/ft)	Entered Shot Total	String Perforated	Com	Cluster #
33	No	CONVENTIONAL PERF	11,774.0	11,776.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		6
33	No	CONVENTIONAL PERF	11,814.0	11,816.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		5
33	No	CONVENTIONAL PERF	11,854.0	11,856.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		4
33	No	CONVENTIONAL PERF	11,894.0	11,896.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		3
33	No	CONVENTIONAL PERF	11,934.0	11,936.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		2
33	No	CONVENTIONAL PERF	11,974.0	11,976.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		1

Stimulations Summary

Stim/Treat Company		Diverson Company		Diverson Method		Start Date		End Date		Job	
PIONEER PUMPING SERVICES				COMPOSITE PLUG		10/28/2017 02:30				OCM, 10/25/2017 06:00	
Number of Treatment Intervals		Design Number of Treatment Intervals		Volume Clean Total (bbl)				Proppant Total (lb)			
36		42		375,585.00				21,094,975.0			

Stimulation Intervals

Frac Stage 33 on 11/6/2017 10:43

Proposed?	Type	Date		String (Deployment Method)				Top Depth (ftKB)		Bottom Depth (ftKB)	
No	HYDRAULIC FRACTURE	11/6/2017		PRODUCTION, 19,690.0ftKB				11,774.0		11,976.0	
Post Job Frac Gradient (...)		Pump Power Max (hp)		Proppant Designed (lb)		Proppant In Formation (lb)		Proppant In Wellbore (lb)		Proppant Total (lb)	
0.72				599,099.0						599,099.0	
Open Wellhead (psi)		End of Job ISIP (psi)		Close Wellhead (psi)		Breakdown Pressure (psi)		Max Treating Pressure (...)		Avg Treating Pressure (...)	
857.0		2,776.0		2,618.0		4,308.0		8,676.0		6,081.0	
								Max Slurry Rate (bbl/min)		Avg Slurry Rate (bbl/min)	
								91.2		90.1	

Comment

Name = STAGE 33, Stage Count = 4

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)
OPEN WELLHEAD	11/6/2017 10:43	11/6/2017 10:45						
ACID SPEARHEAD	11/6/2017 10:45	11/6/2017 10:50	24.00	24.00				
PAD	11/6/2017 10:50	11/6/2017 11:12	1,452.00	1,476.00				
SLURRY	11/6/2017 11:12	11/6/2017 11:17	476.00	1,952.00	OTHER, 100 Mesh	0.50	9,367.0	9,367.0
SLURRY	11/6/2017 11:17	11/6/2017 11:23	524.00	2,476.00	OTHER, 100 Mesh	0.75	15,382.0	24,749.0
SLURRY	11/6/2017 11:23	11/6/2017 11:30	595.00	3,071.00	OTHER, 100 Mesh	1.00	25,209.0	49,958.0
SLURRY	11/6/2017 11:30	11/6/2017 11:37	594.00	3,665.00	OTHER, 100 Mesh	1.25	30,904.0	80,862.0
SLURRY	11/6/2017 11:37	11/6/2017 11:44	619.00	4,284.00	BROWN, 40/70	0.75	19,420.0	100,282.0
SLURRY	11/6/2017 11:44	11/6/2017 11:53	714.00	4,998.00	BROWN, 40/70	1.00	31,003.0	131,285.0
SLURRY	11/6/2017 11:53	11/6/2017 12:03	857.00	5,855.00	BROWN, 40/70	1.50	49,643.0	180,928.0
SLURRY	11/6/2017 12:03	11/6/2017 12:14	975.00	6,830.00	BROWN, 40/70	2.00	81,695.0	262,623.0
SLURRY	11/6/2017 12:14	11/6/2017 12:24	738.00	7,568.00	BROWN, 30/50	2.00	63,447.0	326,070.0
SLURRY	11/6/2017 12:24	11/6/2017 12:34	810.00	8,378.00	BROWN, 30/50	2.50	71,298.0	397,368.0
SLURRY	11/6/2017 12:34	11/6/2017 12:45	881.00	9,259.00	BROWN, 30/50	3.00	109,441.0	506,809.0
SLURRY	11/6/2017 12:45	11/6/2017 12:54	714.00	9,973.00	BROWN, 30/50	3.50	92,290.0	599,099.0
FLUSH	11/6/2017 12:54	11/6/2017 13:00	366.00	10,339.00				599,099.0
CLOSE WELLHEAD	11/6/2017 13:00	11/6/2017 13:00		10,339.00				599,099.0
PUMP DOWN	11/6/2017 13:38	11/6/2017 14:15	81.00	10,420.00				599,099.0

Proppants

Type	Des	Sand Size
BROWN	BULK SAND	40/70
BROWN	BULK SAND	30/50
OTHER	BULK SAND	100 Mesh

Frac Stage 34 on 11/6/2017 17:01

Proposed?	Type	Date		String (Deployment Method)				Top Depth (ftKB)		Bottom Depth (ftKB)	
No	HYDRAULIC FRACTURE	11/6/2017		PRODUCTION, 19,690.0ftKB				11,534.0		11,736.0	
Post Job Frac Gradient (...)		Pump Power Max (hp)		Proppant Designed (lb)		Proppant In Formation (lb)		Proppant In Wellbore (lb)		Proppant Total (lb)	
0.78				606,608.0						606,608.0	
Open Wellhead (psi)		End of Job ISIP (psi)		Close Wellhead (psi)		Breakdown Pressure (psi)		Max Treating Pressure (...)		Avg Treating Pressure (...)	
898.0		3,342.0		3,045.0		4,396.0		6,624.0		6,240.0	
								Max Slurry Rate (bbl/min)		Avg Slurry Rate (bbl/min)	
								90		89	

Comment

Name = STAGE 34, Stage Count = 5

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)
OPEN WELLHEAD	11/6/2017 16:59	11/6/2017 17:02						
ACID SPEARHEAD	11/6/2017 17:02	11/6/2017 17:07	24.00	24.00				
PAD	11/6/2017 17:07	11/6/2017 17:29	1,452.00	1,476.00				
SLURRY	11/6/2017 17:29	11/6/2017 17:35	656.00	2,132.00	BROWN SAND, 100 Mesh	0.50	10,514.0	10,514.0
SLURRY	11/6/2017 17:35	11/6/2017 17:42	524.00	2,656.00	BROWN SAND, 100 Mesh	0.75	18,023.0	28,537.0
SLURRY	11/6/2017 17:42	11/6/2017 17:48	595.00	3,251.00	BROWN SAND, 100 Mesh	1.00	24,808.0	53,345.0
SLURRY	11/6/2017 17:48	11/6/2017 17:55	539.00	3,790.00	BROWN SAND, 100 Mesh	1.25	28,690.0	82,035.0



PIONEER  
NATURAL RESOURCES

UNIVERSITY 7-43 113H

Job: OCM  
Report Date: 11/7/2017  
Report #: 13  
AFE #: 043124  
Total AFE + Sup: \$5,296,678.00  
Cum Field Estimate: \$3,823,735.81  
Daily Field Estimate: \$378,908.09

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)
SLURRY	11/6/2017 17:55	11/6/2017 18:02	619.00	4,409.00	BROWN, 40/70	0.75	21,811.0	103,846.0
SLURRY	11/6/2017 18:02	11/6/2017 18:11	714.00	5,123.00	BROWN, 40/70	1.00	30,179.0	134,025.0
SLURRY	11/6/2017 18:11	11/6/2017 18:21	857.00	5,980.00	BROWN, 40/70	1.50	55,320.0	189,345.0
SLURRY	11/6/2017 18:21	11/6/2017 18:31	876.00	6,856.00	BROWN, 40/70	2.00	78,096.0	267,441.0
SLURRY	11/6/2017 18:31	11/6/2017 18:40	738.00	7,594.00	BROWN, 30/50	2.00	62,719.0	330,160.0
SLURRY	11/6/2017 18:40	11/6/2017 18:50	810.00	8,404.00	BROWN, 30/50	2.50	82,636.0	412,796.0
SLURRY	11/6/2017 18:50	11/6/2017 19:02	881.00	9,285.00	BROWN, 30/50	3.00	108,334.0	521,130.0
SLURRY	11/6/2017 19:02	11/6/2017 19:09	617.00	9,902.00	BROWN, 30/50	3.50	85,478.0	606,608.0
FLUSH	11/6/2017 19:09	11/6/2017 19:15	364.00	10,266.00				606,608.0
CLOSE WELLHEAD	11/6/2017 19:15	11/6/2017 19:15		10,266.00				606,608.0
PUMP DOWN	11/6/2017 20:18	11/6/2017 20:23	79.00	10,345.00				606,608.0

Proppants

Type	Des	Sand Size
BROWN	BULK SAND	40/70
BROWN	BULK SAND	30/50
BROWN SAND	BULK SAND	100 Mesh

Frac Stage 35 on 11/6/2017 23:23

Proposed? No	Type HYDRAULIC FRACTURE	Date 11/6/2017	String (Deployment Method) PRODUCTION, 19,690.0ftKB				Top Depth (ftKB) 11,294.0	Bottom Depth (ftKB) 11,496.0
Post Job Frac Gradient (...) 0.76	Pump Power Max (hp)	Proppant Designed (lb)	Proppant In Formation (lb)	Proppant In Wellbore (lb)	Proppant Total (lb) 598,926.0	Clean Volume Design (bbl)	Total Clean Volume (bbl) 10,121.00	
Open Wellhead (psi) 1,011.0	End of Job ISIP (psi) 3,115.0	Close Wellhead (psi) 2,963.0	Breakdown Pressure (psi) 4,222.0	Max Treating Pressure (...) 7,892.0	Avg Treating Pressure (...) 6,197.0	Max Slurry Rate (bbl/min) 90	Avg Slurry Rate (bbl/min) 89	

Comment  
Name = STAGE 35, Stage Count = 0

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)
OPEN WELLHEAD	11/6/2017 23:23	11/6/2017 23:24						
ACID SPEARHEAD	11/6/2017 23:24	11/6/2017 23:30	24.00	24.00				
PAD	11/6/2017 23:30	11/6/2017 23:45	1,452.00	1,476.00				
SLURRY	11/6/2017 23:45	11/6/2017 23:55	476.00	1,952.00	BROWN SAND, 100 Mesh	0.50	9,820.0	9,820.0
SLURRY	11/6/2017 23:55	11/7/2017 00:02	524.00	2,476.00	BROWN SAND, 100 Mesh	0.75	17,756.0	27,576.0
SLURRY	11/7/2017 00:02	11/7/2017 00:10	595.00	3,071.00	BROWN SAND, 100 Mesh	1.00	26,885.0	54,461.0
SLURRY	11/7/2017 00:10	11/7/2017 00:15	521.00	3,592.00	BROWN SAND, 100 Mesh	1.25	28,356.0	82,817.0
SLURRY	11/7/2017 00:15	11/7/2017 00:22	619.00	4,211.00	BROWN, 40/70	0.75	20,477.0	103,294.0
SLURRY	11/7/2017 00:22	11/7/2017 00:31	714.00	4,925.00	BROWN, 40/70	1.00	34,210.0	137,504.0
SLURRY	11/7/2017 00:31	11/7/2017 00:41	857.00	5,782.00	BROWN, 40/70	1.50	52,447.0	189,951.0
SLURRY	11/7/2017 00:41	11/7/2017 00:51	846.00	6,628.00	BROWN, 40/70	2.00	73,420.0	263,371.0
SLURRY	11/7/2017 00:51	11/7/2017 01:00	738.00	7,366.00	BROWN, 30/50	2.00	61,766.0	325,137.0
SLURRY	11/7/2017 01:00	11/7/2017 01:10	828.00	8,194.00	BROWN, 30/50	2.50	86,404.0	411,541.0
SLURRY	11/7/2017 01:10	11/7/2017 01:22	881.00	9,075.00	BROWN, 30/50	3.00	110,593.0	522,134.0
SLURRY	11/7/2017 01:22	11/7/2017 01:29	620.00	9,695.00	BROWN, 30/50	3.50	76,792.0	598,926.0
FLUSH	11/7/2017 01:29	11/7/2017 01:35	356.00	10,051.00				598,926.0
CLOSE WELLHEAD	11/7/2017 01:35	11/7/2017 01:35		10,051.00				598,926.0
PUMP DOWN	11/7/2017 02:36	11/7/2017 02:42	70.00	10,121.00				598,926.0

Proppants

Type	Des	Sand Size
BROWN	BULK SAND	40/70
BROWN	BULK SAND	30/50
BROWN SAND	BULK SAND	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	11/6/2017 08:20	4.38	11,996.0	11,998.0			
No	Yes	FRAC PLUG	11/6/2017 14:10	4.38	11,756.0	11,758.0			
No	Yes	FRAC PLUG	11/6/2017 20:23	4.38	11,516.0	11,518.0			
No	Yes	FRAC PLUG	11/7/2017 02:42	4.38	12,274.0	12,276.0			



PIONEER

NATURAL RESOURCES

UNIVERSITY 7-43 113H

FRAC FLEET / CREW #

Contractor

PIONEER PUMPING SERVICES

Rig #

BULL PEN

Job:

Report Date:

Report #:

AFE #:

Total AFE + Sup:

Cum Field Estimate:

Daily Field Estimate:

OCM

11/8/2017

14

043124

\$5,296,678.00

\$4,189,578.19

\$365,157.38

SSN

ID00003144

API/UWI

42-003-47567-0000

Property Sub

927638-113

Field Name

SPRABERRY (TREND AREA)

Open Formation

LOWER SPRABERRY SHALE (SPBY L C1)

Spud Date

8/30/2017

TD (max) (ftKB)

19,705.0

Job Category

ORIG COMPLETION

Primary Job Type

OCM

Start Date

10/25/2017

End Date

Job Status

AFE APPROVED

Responsible Grp 2

STIM ENG - JOSH MEASLES

Job Dates

Date

Type

Subtype

Note

10/28/2017

MILESTONE

TURN OVER TO PRODUCTION

11/8/2017

MILESTONE

READY TO START (RTS)

11/8/2017

PLAN

STIMULATION END

Safety Checks

Time

Type

Des

Tour

Com

06:01

MEETING

PRE-TOUR

DAY

Held safety meeting with PPS-4 and all third party vendors. Discussed safety awareness and job duties.

17:30

MEETING

PRE-TOUR

NIGHT

Held safety meeting with PPS-4 and all third party vendors. Discussed safety awareness and job duties.

Daily Contacts on Location

Contact Name

Title

Tour

Mobile

Alt Mobile #

Note

NECAISE, KEVIN

SUPERINTENDE NT

MEASLES, JOSH

ENGINEER

432-214-3508

MILLS, ASHLEY

ENGINEER

DAY

432-214-6782

GREENE, MITCH

ENGINEER

DAY

432-894-7612

TREJO, JEREMIAH

FOREMAN

DAY

682-229-0983

HATHCOAT, ANDREW

SUPERVISOR

DAY

903-439-5529

TRAYLOR, KENDALL

FOREMAN

NIGHT

806-440-2670

BROWN, PERRY

FOREMAN

NIGHT

832-690-7101

Personnel Log

Company

Count

NINE ENERGY SERVICE INC

8

PNR PUMPING SERVICES LLC

24

LIFT CRANE SERVICE LLC

4

NEW WAVE WATER TRANSFER

8

PNR PUMPING SERVICES LLC

7

TETRA TECHNOLOGIES INC

4

Daily Operations

Operations at Report Time

Pumping Stage 40

Daily Goal Description

STAGES PER DAY

Daily Goal - Last 24

4.0

Operations Summary

Below Grade Cellars

Frac Stage(s) 36,37,38,39

P/P Stage(s) 37,38,39,40

Operations Next Report Period

STIM OPS

Remarks

NO ACCIDENTES 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

08:04

2.08

STIM, OPS

FRAC

STIM

Frac stage 36 / PTD

NORMAL

36

08:04

08:19

0.25

STIM, OPS

SWAPOVER

SWAP\_WL

Swap/Test lube to 9,000 psi

NORMAL

08:19

08:49

0.5

STIM, OPS

WIRELINE

WL\_RUNDN

RIH

NORMAL

08:49

09:18

0.47

STIM, OPS

WIRELINE

WL\_RUNUP

POOH

NORMAL

09:18

11:10

1.87

STIM, OPS

WIRELINE

WL\_NONOPS

WL 200'

NORMAL

11:10

11:49

0.65

STIM, OPS

SWAPOVER

SWAP\_FRAC

Swap Frac

NORMAL

11:49

14:02

2.22

STIM, OPS

FRAC

STIM

Frac stage 37 / PTD

NORMAL

37

14:02

14:44

0.7

STIM, OPS

SWAPOVER

SWAP\_WL

Swap/Test lube to 9,000 psi/Rehead

NORMAL

14:44

15:15

0.52

STIM, OPS

WIRELINE

WL\_RUNDN

RIH

NORMAL

15:15

15:39

0.4

STIM, OPS

WIRELINE

WL\_RUNUP

POOH

NORMAL

15:39

16:56

1.28

STIM, OPS

WIRELINE

WL\_NONOPS

WL 200'

NORMAL

16:56

17:31

0.58

STIM, OPS

SWAPOVER

SWAP\_FRAC

Swap Frac

NORMAL

17:31

19:43

2.2

STIM, OPS

FRAC

STIM

Frac Stage 38 / PTD

NORMAL

38

19:43

19:58

0.25

STIM, OPS

SWAPOVER

SWAP\_WL

Swap WL

NORMAL

19:58

20:25

0.45

STIM, OPS

WIRELINE

WL\_RUNDN

WL down

NORMAL

20:25

20:53

0.47

STIM, OPS

WIRELINE

WL\_RUNUP

POOH

NORMAL

PIONEER

NATURAL RESOURCES

UNIVERSITY 7-43 113H

FRAC FLEET / CREW #

Contractor

PIONEER PUMPING SERVICES

Rig #

4

Job:

Report Date:

Report #:

AFE #:

Total AFE + Sup:

Cum Field Estimate:

Daily Field Estimate:

OCM

11/8/2017

14

043124

\$5,296,678.00

\$4,189,578.19

\$365,157.38

Time Log

Start Time	End Time	Dur (hr)	Phase	Activity	Operation	Com	Ops Category	Prob Ref #	Prob Hrs (hr)	Frac Stage
20:53	22:38	1.75	STIM, OPS	WIRELINE	WL_NONOPS	WL 200'	NORMAL			
22:38	23:09	0.52	STIM, OPS	SWAPOVER	SWAP_FRAC	Swap Frac	NORMAL			
23:09	01:24	2.25	STIM, OPS	FRAC	STIM	Frac Stage 39/ PTD	NORMAL			39
01:24	01:54	0.5	STIM, OPS	WIRELINE	WL_NONOPS	WL Rehead	NORMAL			
01:54	02:04	0.17	STIM, OPS	SWAPOVER	SWAP_WL	Swap WL	NORMAL			
02:04	02:30	0.42	STIM, OPS	WIRELINE	WL_RUNDN	RIH	NORMAL			
02:30	02:54	0.4	STIM, OPS	WIRELINE	WL_RUNUP	POOH	NORMAL			
02:54	04:45	1.85	STIM, OPS	WIRELINE	WL_NONOPS	WL 200'	NORMAL			
04:45	05:15	0.5	STIM, OPS	SWAPOVER	SWAP_FRAC	Swap Frac	NORMAL			
05:15	06:00	0.75	STIM, OPS	FRAC	STIM	Frac Stage 40/ PTD	NORMAL			40

Fluid Summary

Fluid	Cum to Well (bbl)	To well (bbl)	Cum from Well (bbl)	From well (bbl)	Left to recover (bbl)
WELL FLUID	418,189.0	40,924.0			418,189.0

Interval Problems

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

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

Contractor	Rig #	Start Date	RR Date	Rig Type
CDK PERFORATING (NINE ENERGY)		10/26/2017 06:01		WIRELINE
PIONEER PUMPING SERVICES	BULLPEN	10/26/2017 06:01		FRAC FLEET
PIONEER PUMPING SERVICES	4	10/26/2017 06:01		FRAC FLEET

DIESEL, FUEL

Total Received	Total Consumed	Total Returned
80,878.0	80,978.0	0.0

Job Supply Amounts

Date	Supply Item Des	Type	Received	Consumed	Returned	Cum Received	Cum Consumed	Cum Returned
11/8/2017 03:13	DIESEL	FUEL	1,721	1,821	0	67,012.0	67,112.0	0.0
11/8/2017 03:13	DIESEL	FUEL	1,765	1,765	0	68,777.0	68,877.0	0.0
11/8/2017 03:13	DIESEL	FUEL	2,707	2,707	0	71,484.0	71,584.0	0.0
11/8/2017 03:13	DIESEL	FUEL	1,788	1,788	0	73,272.0	73,372.0	0.0
11/8/2017 03:13	DIESEL	FUEL	1,690	1,690	0	74,962.0	75,062.0	0.0
11/8/2017 03:13	DIESEL	FUEL	2,001	2,001	0	76,963.0	77,063.0	0.0
11/8/2017 03:14	DIESEL	FUEL	2,104	2,104	0	79,067.0	79,167.0	0.0
11/8/2017 03:14	DIESEL	FUEL	1,811	1,811	0	80,878.0	80,978.0	0.0

Perforations

Int #	Prop?	Type	Top (ftKB)	Btm (ftKB)	Btm - Top (ft)	Shot Dens (shots/ft)	Entered Shot Total	String Perforated	Com	Cluster #
40	No	CONVENTIONAL PERF	10,094.0	10,096.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		6
40	No	CONVENTIONAL PERF	10,130.0	10,132.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		5
40	No	CONVENTIONAL PERF	10,174.0	10,176.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		4
40	No	CONVENTIONAL PERF	10,214.0	10,216.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		3
40	No	CONVENTIONAL PERF	10,254.0	10,256.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		2
40	No	CONVENTIONAL PERF	10,294.0	10,296.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		1
39	No	CONVENTIONAL PERF	10,334.0	10,336.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		6
39	No	CONVENTIONAL PERF	10,374.0	10,376.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		5
39	No	CONVENTIONAL PERF	10,414.0	10,416.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		4
39	No	CONVENTIONAL PERF	10,454.0	10,456.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		3
39	No	CONVENTIONAL PERF	10,494.0	10,496.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		2
39	No	CONVENTIONAL PERF	10,534.0	10,536.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		1
38	No	CONVENTIONAL PERF	10,574.0	10,576.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		6
38	No	CONVENTIONAL PERF	10,614.0	10,616.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		5
38	No	CONVENTIONAL PERF	10,654.0	10,656.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		4

PIONEER

NATURAL RESOURCES

UNIVERSITY 7-43 113H

Job:

Report Date:

Report #:

AFE #:

Total AFE + Sup:

Cum Field Estimate:

Daily Field Estimate:

OCM

11/8/2017

14

043124

\$5,296,678.00

\$4,189,578.19

\$365,157.38

Perforations

Int #	Prop?	Type	Top (ftKB)	Btm (ftKB)	Btm - Top (ft)	Shot Dens (shots/ft)	Entered Shot Total	String Perforated	Com	Cluster #
38	No	CONVENTIONAL PERF	10,694.0	10,696.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		3
38	No	CONVENTIONAL PERF	10,734.0	10,736.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		2
38	No	CONVENTIONAL PERF	10,774.0	10,776.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		1
37	No	CONVENTIONAL PERF	10,814.0	10,816.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		6
37	No	CONVENTIONAL PERF	10,854.0	10,856.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		5
37	No	CONVENTIONAL PERF	10,894.0	10,896.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		4
37	No	CONVENTIONAL PERF	10,936.0	10,938.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		3
37	No	CONVENTIONAL PERF	10,970.0	10,972.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		2
37	No	CONVENTIONAL PERF	11,014.0	11,016.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		1

Stimulations Summary

Stim/Treat Company	Diversion Company	Diversion Method	Start Date	End Date	Job
PIONEER PUMPING SERVICES		COMPOSITE PLUG	10/28/2017 02:30		OCM, 10/25/2017 06:00
Number of Treatment Intervals	Design Number of Treatment Intervals	Volume Clean Total (bbl)	Proppant Total (lb)		
40	42	416,605.00	23,492,127.0		

Stimulation Intervals

Frac Stage 37 on 11/7/2017 11:49

Proposed? No	Type	Date	String (Deployment Method)	Top Depth (ftKB)	Bottom Depth (ftKB)		
	HYDRAULIC FRACTURE	11/7/2017	PRODUCTION, 19,690.0ftKB	10,814.0	11,016.0		
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)
0.76			602,474.0		602,474.0		10,122.00
Open Wellhead (psi)	End of Job ISIP (psi)	Close Wellhead (psi)	Breakdown Pressure (psi)	Max Treating Pressure (...)	Avg Treating Pressure (...)	Max Slurry Rate (bbl/min)	Avg Slurry Rate (bbl/min)
2,038.0	3,084.0	2,881.0	4,345.0	8,849.0	6,384.0	95.8	90
Comment							
Name = STAGE 37, Stage Count = 5							

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)
OPEN WELLHEAD	11/7/2017 11:49	11/7/2017 11:50						
ACID SPEARHEAD	11/7/2017 11:50	11/7/2017 11:56	24.00	24.00				
PAD	11/7/2017 11:56	11/7/2017 12:18	1,452.00	1,476.00				
SLURRY	11/7/2017 12:18	11/7/2017 12:23	476.00	1,952.00	OTHER, 100 Mesh	0.50	10,476.0	10,476.0
SLURRY	11/7/2017 12:23	11/7/2017 12:29	524.00	2,476.00	OTHER, 100 Mesh	0.75	15,690.0	26,166.0
SLURRY	11/7/2017 12:29	11/7/2017 12:36	595.00	3,071.00	OTHER, 100 Mesh	1.00	24,766.0	50,932.0
SLURRY	11/7/2017 12:36	11/7/2017 12:43	584.00	3,655.00	OTHER, 100 Mesh	1.25	30,717.0	81,649.0
SLURRY	11/7/2017 12:43	11/7/2017 12:50	619.00	4,274.00	BROWN, 40/70	0.75	19,478.0	101,127.0
SLURRY	11/7/2017 12:50	11/7/2017 12:59	714.00	4,988.00	BROWN, 40/70	1.00	30,215.0	131,342.0
SLURRY	11/7/2017 12:59	11/7/2017 13:09	857.00	5,845.00	BROWN, 40/70	1.50	56,601.0	187,943.0
SLURRY	11/7/2017 13:09	11/7/2017 13:20	895.00	6,740.00	BROWN, 40/70	2.00	75,440.0	263,383.0
SLURRY	11/7/2017 13:20	11/7/2017 13:28	738.00	7,478.00	BROWN, 30/50	2.00	65,201.0	328,584.0
SLURRY	11/7/2017 13:28	11/7/2017 13:39	810.00	8,288.00	BROWN, 30/50	2.50	84,326.0	412,910.0
SLURRY	11/7/2017 13:39	11/7/2017 13:50	881.00	9,169.00	BROWN, 30/50	3.00	112,659.0	525,569.0
SLURRY	11/7/2017 13:50	11/7/2017 13:57	559.00	9,728.00	BROWN, 30/50	3.50	76,905.0	602,474.0
FLUSH	11/7/2017 13:57	11/7/2017 14:03	344.00	10,072.00				602,474.0
CLOSE WELLHEAD	11/7/2017 14:03	11/7/2017 14:03		10,072.00				602,474.0
PUMP DOWN	11/7/2017 14:44	11/7/2017 15:20	50.00	10,122.00				602,474.0

Proppants

Type	Des	Sand Size
BROWN	BULK SAND	40/70
BROWN	BULK SAND	30/50
OTHER	BULK SAND	100 Mesh

Frac Stage 38 on 11/7/2017 17:17

Proposed? No	Type	Date	String (Deployment Method)	Top Depth (ftKB)	Bottom Depth (ftKB)		
	HYDRAULIC FRACTURE	11/7/2017	PRODUCTION, 19,690.0ftKB	10,574.0	10,776.0		
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)
0.75			595,246.0		595,246.0		10,346.00
Open Wellhead (psi)	End of Job ISIP (psi)	Close Wellhead (psi)	Breakdown Pressure (psi)	Max Treating Pressure (...)	Avg Treating Pressure (...)	Max Slurry Rate (bbl/min)	Avg Slurry Rate (bbl/min)
1,748.0	3,068.0	2,911.0	4,000.0	7,569.0	6,105.0	91	90
Comment							
Name = STAGE 38, Stage Count = 0							

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)
OPEN WELLHEAD	11/7/2017 17:17	11/7/2017 17:20						
ACID SPEARHEAD	11/7/2017 17:20	11/7/2017 17:25	24.00	24.00				

PIONEER  
NATURAL RESOURCES

UNIVERSITY 7-43 113H

Job: OCM

Report Date: 11/8/2017

Report #: 14

AFE #: 043124

Total AFE + Sup: \$5,296,678.00

Cum Field Estimate: \$4,189,578.19

Daily Field Estimate: \$365,157.38

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	11/7/2017 17:25	11/7/2017 17:47	1,452.00	1,476.00				
SLURRY	11/7/2017 17:47	11/7/2017 17:52	476.00	1,952.00	BROWN SAND, 100 Mesh	0.50	8,266.0	8,266.0
SLURRY	11/7/2017 17:52	11/7/2017 17:58	524.00	2,476.00	BROWN SAND, 100 Mesh	0.75	16,514.0	24,780.0
SLURRY	11/7/2017 17:58	11/7/2017 18:05	595.00	3,071.00	BROWN SAND, 100 Mesh	1.00	26,333.0	51,113.0
SLURRY	11/7/2017 18:05	11/7/2017 18:11	568.00	3,639.00	BROWN SAND, 100 Mesh	1.25	30,801.0	81,914.0
SLURRY	11/7/2017 18:11	11/7/2017 18:18	619.00	4,258.00	BROWN, 40/70	0.75	20,341.0	102,255.0
SLURRY	11/7/2017 18:18	11/7/2017 18:27	714.00	4,972.00	BROWN, 40/70	1.00	32,304.0	134,559.0
SLURRY	11/7/2017 18:27	11/7/2017 18:37	857.00	5,829.00	BROWN, 40/70	1.50	56,540.0	191,099.0
SLURRY	11/7/2017 18:37	11/7/2017 18:47	824.00	6,653.00	BROWN, 40/70	2.00	69,833.0	260,932.0
SLURRY	11/7/2017 18:47	11/7/2017 18:56	738.00	7,391.00	BROWN, 30/50	2.00	66,633.0	327,565.0
SLURRY	11/7/2017 18:56	11/7/2017 19:09	1,084.00	8,475.00	BROWN, 30/50	2.50	106,882.0	434,447.0
SLURRY	11/7/2017 19:09	11/7/2017 19:18	881.00	9,356.00	BROWN, 30/50	3.00	85,123.0	519,570.0
SLURRY	11/7/2017 19:18	11/7/2017 19:25	600.00	9,956.00	BROWN, 30/50	3.50	75,676.0	595,246.0
FLUSH	11/7/2017 19:25	11/7/2017 19:31	340.00	10,296.00				595,246.0
CLOSE WELLHEAD	11/7/2017 19:31	11/7/2017 19:31		10,296.00				595,246.0
PUMP DOWN	11/7/2017 20:00	11/7/2017 20:09	50.00	10,346.00				595,246.0

Proppants

Type	Des	Sand Size
BROWN	BULK SAND	40/70
BROWN	BULK SAND	30/50
BROWN SAND	BULK SAND	100 Mesh

Frac Stage 39 on 11/7/2017 23:12

Proposed? No	Type HYDRAULIC FRACTURE	Date 11/7/2017	String (Deployment Method) PRODUCTION, 19,690.0ftKB			Top Depth (ftKB) 10,334.0	Bottom Depth (ftKB) 10,536.0
Post Job Frac Gradient (...) 0.79	Pump Power Max (hp)	Proppant Designed (lb)	Proppant In Formation (lb) 601,679.0	Proppant In Wellbore (lb)	Proppant Total (lb) 601,679.0	Clean Volume Design (bbl)	Total Clean Volume (bbl) 10,417.00
Open Wellhead (psi) 1,730.0	End of Job ISIP (psi) 3,456.0	Close Wellhead (psi) 3,189.0	Breakdown Pressure (psi) 4,352.0	Max Treating Pressure (...) 7,632.0	Avg Treating Pressure (...) 6,027.0	Max Slurry Rate (bbl/min) 90	Avg Slurry Rate (bbl/min) 89

Comment  
Name = STAGE 39, Stage Count = 0

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)
OPEN WELLHEAD	11/7/2017 23:12	11/7/2017 23:13						
ACID SPEARHEAD	11/7/2017 23:13	11/7/2017 23:18	24.00	24.00				
PAD	11/7/2017 23:18	11/7/2017 23:39	1,452.00	1,476.00				
SLURRY	11/7/2017 23:39	11/7/2017 23:44	476.00	1,952.00	BROWN SAND, 100 Mesh	0.50	8,038.0	8,038.0
SLURRY	11/7/2017 23:44	11/7/2017 23:50	524.00	2,476.00	BROWN SAND, 100 Mesh	0.75	16,794.0	24,832.0
SLURRY	11/7/2017 23:50	11/7/2017 23:58	595.00	3,071.00	BROWN SAND, 100 Mesh	1.00	24,474.0	49,306.0
SLURRY	11/7/2017 23:58	11/8/2017 00:04	613.00	3,684.00	BROWN SAND, 100 Mesh	1.25	32,636.0	81,942.0
SLURRY	11/8/2017 00:04	11/8/2017 00:11	619.00	4,303.00	BROWN, 40/70	0.75	19,345.0	101,287.0
SLURRY	11/8/2017 00:11	11/8/2017 00:20	714.00	5,017.00	BROWN, 40/70	1.00	29,781.0	131,068.0
SLURRY	11/8/2017 00:20	11/8/2017 00:30	857.00	5,874.00	BROWN, 40/70	1.50	50,844.0	181,912.0
SLURRY	11/8/2017 00:30	11/8/2017 00:41	952.00	6,826.00	BROWN, 40/70	2.00	83,278.0	265,190.0
SLURRY	11/8/2017 00:41	11/8/2017 00:50	738.00	7,564.00	BROWN, 30/50	2.00	63,960.0	329,150.0
SLURRY	11/8/2017 00:50	11/8/2017 01:00	810.00	8,374.00	BROWN, 30/50	2.50	84,092.0	413,242.0
SLURRY	11/8/2017 01:00	11/8/2017 01:12	881.00	9,255.00	BROWN, 30/50	3.00	110,935.0	524,177.0
SLURRY	11/8/2017 01:12	11/8/2017 01:19	622.00	9,877.00	BROWN, 30/50	3.50	77,502.0	601,679.0
FLUSH	11/8/2017 01:19	11/8/2017 01:24	501.00	10,378.00				601,679.0
CLOSE WELLHEAD	11/8/2017 01:24	11/8/2017 01:24		10,378.00				601,679.0
PUMP DOWN	11/8/2017 02:23	11/8/2017 02:28	39.00	10,417.00				601,679.0

Proppants

Type	Des	Sand Size
BROWN	BULK SAND	40/70
BROWN	BULK SAND	30/50
BROWN SAND	BULK SAND	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	11/7/2017 08:50	4.38	11,036.0	11,038.0			
No	Yes	FRAC PLUG	11/7/2017 15:15	4.38	10,796.0	10,798.0			
No	Yes	FRAC PLUG	11/7/2017 20:09	4.38	10,556.0	10,558.0			
No	Yes	FRAC PLUG	11/8/2017 02:28	4.38	10,318.0	10,320.0			

PIONEER

NATURAL RESOURCES

UNIVERSITY 7-43 113H

FRAC FLEET / CREW #

Contractor

PIONEER PUMPING SERVICES

Rig #

BULL PEN

Job:

Report Date:

Report #:

AFE #:

Total AFE + Sup:

Cum Field Estimate:

Daily Field Estimate:

OCM

11/9/2017

15

043124

\$5,296,678.00

\$4,525,299.16

\$317,216.97

SSN

ID00003144

API/UWI

42-003-47567-0000

Property Sub

927638-113

Field Name

SPRABERRY (TREND AREA)

Open Formation

LOWER SPRABERRY SHALE (SPBY L C1)

Spud Date

8/30/2017

TD (max) (ftKB)

19,705.0

Job Category

ORIG COMPLETION

Primary Job Type

OCM

Start Date

10/25/2017

End Date

Job Status

AFE APPROVED

Responsible Grp 2

STIM ENG - JOSH MEASLES

Job Dates

Date

Type

Subtype

Note

10/28/2017

MILESTONE

TURN OVER TO PRODUCTION

11/9/2017

MILESTONE

READY TO START (RTS)

11/9/2017

PLAN

STIMULATION END

Safety Checks

Time

Type

Des

Tour

Com

06:01

MEETING

PRE-TOUR

DAY

Held safety meeting with PPS-4 and all third party vendors. Discussed safety awareness and job duties.

06:01

MEETING

PRE-TOUR

NIGHT

Held safety meeting with PPS-4 and all third party vendors. Discussed safety awareness and job duties.

Daily Contacts on Location

Contact Name

Title

Tour

Mobile

Alt Mobile #

Note

MORALES, JAMES

SUPERINTENDE NT

432-634-4135

MEASLES, JOSH

ENGINEER

432-214-3508

WINKLER, RYAN

FOREMAN

DAY

254-205-8247

ELLIS, BOBBY

FOREMAN

DAY

325-574-3651

TREJO, JEREMIAH

FOREMAN

NIGHT

682-229-0983

HATHCOAT, ANDREW

SUPERVISOR

NIGHT

903-439-5529

Personnel Log

Company

Count

NINE ENERGY SERVICE INC

8

PNR PUMPING SERVICES LLC

24

LIFT CRANE SERVICE LLC

4

NEW WAVE WATER TRANSFER

8

PNR PUMPING SERVICES LLC

7

TETRA TECHNOLOGIES INC

4

Daily Operations

Operations at Report Time

RDMO All Vendors

Daily Goal Description

STAGES PER DAY

Daily Goal - Last 24

3.0

Operations Summary

Below Grade Cellars

Frac Stage(s) 40,41,42

P/P Stage(s) 41,42

KP @ 9100' & 9050'

DT- 1.1 Sand silo issues// 1.9 Sand cab repairs

Operations Next Report Period

STIM OPS

Remarks

NO ACCIDENTES 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

08:31

2.52

STIM, OPS

FRAC

STIM

Frac Stage 40 / PTD

NORMAL

26

0.95

40

08:31

08:47

0.27

STIM, OPS

SWAPOVER

SWAP\_WL

Swap/Test lube to 9,000 psi

NORMAL

08:47

09:19

0.53

STIM, OPS

WIRELINE

WL\_RUNDN

RIH

NORMAL

09:19

09:53

0.57

STIM, OPS

WIRELINE

WL\_RUNUP

POOH

NORMAL

27

0.01

09:53

14:07

4.23

STIM, OPS

NONOPS

PAD

Wait on Pad Ops

NORMAL

27

1.91

14:07

14:39

0.53

STIM, OPS

SWAPOVER

SWAP\_FRAC

Swap Frac

NORMAL

14:39

16:55

2.28

STIM, OPS

FRAC

STIM

Frac Stage 41 / PTD

NORMAL

41

16:55

17:15

0.32

STIM, OPS

SWAPOVER

SWAP\_WL

Swap/Test lube to 9,000 psi

NORMAL

17:15

17:45

0.5

STIM, OPS

WIRELINE

WL\_RUNDN

RIH

NORMAL

17:45

18:16

0.53

STIM, OPS

WIRELINE

WL\_RUNUP

POOH

NORMAL

18:16

19:52

1.6

STIM, OPS

WIRELINE

WL\_NONOPS

WL 200'

NORMAL

19:52

20:49

0.95

STIM, OPS

SWAPOVER

SWAP\_FRAC

Swap Frac

NORMAL

20:49

22:57

2.13

STIM, OPS

FRAC

STIM

Frac stage 42 / Placed 90% due to sanded off belt

NORMAL

42

22:57

00:32

1.58

STIM, OPS

NONOPS

PAD

Wait on Pad Ops

NORMAL

00:32

00:54

0.37

STIM, OPS

SWAPOVER

SWAP\_WL

Swap/Test lube to 9,000 psi/Rehead

NORMAL

00:54

01:34

0.67

STIM, OPS

WIRELINE

WL\_RUNDN

RIH / Set Cap Plug @ 9100' Neg Test Not Good

NORMAL



PIONEER

NATURAL RESOURCES

UNIVERSITY 7-43 113H

Job:

Report Date:

Report #:

AFE #:

Total AFE + Sup:

Cum Field Estimate:

Daily Field Estimate:

OCM

11/9/2017

15

043124

\$5,296,678.00

\$4,525,299.16

\$317,216.97

FRAC FLEET / CREW #

Contractor

PIONEER PUMPING SERVICES

Rig #

4

Time Log

Start Time	End Time	Dur (hr)	Phase	Activity	Operation	Com	Ops Category	Prob Ref #	Prob Hrs (hr)	Frac Stage
01:34	02:03	0.48	STIM, OPS	WIRELINE	WL_RUNUP	POOH	NORMAL			
02:03	02:21	0.3	STIM, OPS	SWAPOVER	SWAP_WL	Swap/Test lube to 9,000 psi	NORMAL			
02:21	02:59	0.63	STIM, OPS	WIRELINE	WL_RUNDN	RIH / Set Cap Plug @	NORMAL			
02:59	03:24	0.42	STIM, OPS	WIRELINE	WL_RUNUP	POOH	NORMAL			
03:24	06:00	2.59	STIM, POST OPS	SETUP	RURD	RD Frac & Support Equipment	NORMAL			

Fluid Summary

Fluid	Cum to Well (bbl)	To well (bbl)	Cum from Well (bbl)	From well (bbl)	Left to recover (bbl)
WELL FLUID	448,950.0	30,761.0			448,950.0

Interval Problems

FRAC/STIMULATION EQUIPMENT, PROPPANT HANDLING, ELECTRICAL, 11/8/2017 05:50

Ref #	End Date	Dur (Net) (hr)	Excl...	Accountable Party	Est Cost (Cost)	Comment
26	11/8/2017 06:57	1.12	No	PNR PUMPING SERVICES LLC		SD on Stg 40 100M, Could not get Sand Silo to Open, Wait on E-Tech

PAD DOWN, PAD, OFFSET WELL, 11/8/2017 09:53

Ref #	End Date	Dur (Net) (hr)	Excl...	Accountable Party	Est Cost (Cost)	Comment
27	11/8/2017 11:48	1.92	No	PNR PUMPING SERVICES LLC		Wait on Sand CAB Repair, Can Not Get Gates to Open

Rigs

Contractor	Rig #	Start Date	RR Date	Rig Type
CDK PERFORATING (NINE ENERGY)	4	10/26/2017 06:01	11/9/2017 03:25	WIRELINE
PIONEER PUMPING SERVICES	BULLPEN	10/26/2017 06:01	11/9/2017 03:25	FRAC FLEET
PIONEER PUMPING SERVICES	4	10/26/2017 06:01	11/9/2017 03:25	FRAC FLEET

DIESEL, FUEL

Total Received	Total Consumed	Total Returned
86,316.0	86,416.0	0.0

Job Supply Amounts

Date	Supply Item Des	Type	Received	Consumed	Returned	Cum Received	Cum Consumed	Cum Returned
11/9/2017 03:37	DIESEL	FUEL	2,001	2,001		82,879.0	82,979.0	0.0
11/9/2017 03:37	DIESEL	FUEL	1,691	1,691		84,570.0	84,670.0	0.0
11/9/2017 03:37	DIESEL	FUEL	1,746	1,746		86,316.0	86,416.0	0.0

Perforations

Int #	Prop?	Type	Top (ftKB)	Btm (ftKB)	Btm - Top (ft)	Shot Dens (shots/ft)	Entered Shot Total	String Perforated	Com	Cluster #
42	No	CONVENTIONAL PERF	9,614.0	9,616.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		6
42	No	CONVENTIONAL PERF	9,654.0	9,656.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		5
42	No	CONVENTIONAL PERF	9,694.0	9,696.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		4
42	No	CONVENTIONAL PERF	9,734.0	9,736.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		3
42	No	CONVENTIONAL PERF	9,774.0	9,776.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		2
42	No	CONVENTIONAL PERF	9,814.0	9,816.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		1
41	No	CONVENTIONAL PERF	9,854.0	9,856.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		6
41	No	CONVENTIONAL PERF	9,894.0	9,896.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		5
41	No	CONVENTIONAL PERF	9,934.0	9,936.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		4
41	No	CONVENTIONAL PERF	9,974.0	9,976.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		3
41	No	CONVENTIONAL PERF	10,014.0	10,016.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		2
41	No	CONVENTIONAL PERF	10,054.0	10,056.0	2.0	4.0	6	PRODUCTION, 19,690.0ftKB		1

Stimulations Summary

Stim/Treat Company	Diversion Company	Diversion Method	Start Date	End Date	Job
PIONEER PUMPING SERVICES		COMPOSITE PLUG	10/28/2017 02:30	11/8/2017 23:00	OCM, 10/25/2017 06:00

Number of Treatment Intervals	Design Number of Treatment Intervals	Volume Clean Total (bbl)	Proppant Total (lb)
42	42	447,414.00	25,199,657.0

Stimulation Intervals

Frac Stage 41 on 11/8/2017 14:39

Proposed?	Type	Date	String (Deployment Method)	Top Depth (ftKB)	Bottom Depth (ftKB)
No	HYDRAULIC FRACTURE	11/8/2017	PRODUCTION, 19,690.0ftKB	9,854.0	10,056.0

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)
0.82			604,114.0		604,114.0		10,445.00

Open Wellhead (psi)	End of Job ISIP (psi)	Close Wellhead (psi)	Breakdown Pressure (psi)	Max Treating Pressure (...)	Avg Treating Pressure (...)	Max Slurry Rate (bbl/min)	Avg Slurry Rate (bbl/min)
1,485.0	3,702.0	3,197.0	4,981.0	8,590.0	6,278.0	91	89

Comment

Name = STAGE 41, Stage Count = 5

PIONEER  
NATURAL RESOURCES

UNIVERSITY 7-43 113H

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

OCM  
11/9/2017  
15  
043124  
\$5,296,678.00  
\$4,525,299.16  
\$317,216.97

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)
OPEN WELLHEAD	11/8/2017 14:39	11/8/2017 14:42						
ACID SPEARHEAD	11/8/2017 14:42	11/8/2017 14:45	24.00	24.00				
PAD	11/8/2017 14:45	11/8/2017 15:06	1,452.00	1,476.00				
SLURRY	11/8/2017 15:06	11/8/2017 15:12	476.00	1,952.00	OTHER, 100 Mesh	0.50	11,874.0	11,874.0
SLURRY	11/8/2017 15:12	11/8/2017 15:18	524.00	2,476.00	OTHER, 100 Mesh	0.75	16,766.0	28,640.0
SLURRY	11/8/2017 15:18	11/8/2017 15:24	595.00	3,071.00	OTHER, 100 Mesh	1.00	25,840.0	54,480.0
SLURRY	11/8/2017 15:24	11/8/2017 15:31	552.00	3,623.00	OTHER, 100 Mesh	1.25	27,661.0	82,141.0
SLURRY	11/8/2017 15:31	11/8/2017 15:38	619.00	4,242.00	BROWN, 40/70	0.75	20,133.0	102,274.0
SLURRY	11/8/2017 15:38	11/8/2017 15:46	714.00	4,956.00	BROWN, 40/70	1.00	30,332.0	132,606.0
SLURRY	11/8/2017 15:46	11/8/2017 15:56	857.00	5,813.00	BROWN, 40/70	1.50	55,431.0	188,037.0
SLURRY	11/8/2017 15:56	11/8/2017 16:09	1,091.00	6,904.00	BROWN, 40/70	2.00	75,830.0	263,867.0
SLURRY	11/8/2017 16:09	11/8/2017 16:19	738.00	7,642.00	BROWN, 30/50	2.00	61,932.0	325,799.0
SLURRY	11/8/2017 16:19	11/8/2017 16:31	1,020.00	8,662.00	BROWN, 30/50	2.50	84,528.0	410,327.0
SLURRY	11/8/2017 16:31	11/8/2017 16:43	881.00	9,543.00	BROWN, 30/50	3.00	114,249.0	524,576.0
SLURRY	11/8/2017 16:43	11/8/2017 16:51	583.00	10,126.00	BROWN, 30/50	3.50	79,538.0	604,114.0
FLUSH	11/8/2017 16:51	11/8/2017 16:57	298.00	10,424.00				604,114.0
CLOSE WELLHEAD	11/8/2017 16:57	11/8/2017 16:57		10,424.00				604,114.0
PUMP DOWN	11/8/2017 17:15	11/8/2017 17:50	21.00	10,445.00				604,114.0

Proppants

Type	Des	Sand Size
BROWN	BULK SAND	40/70
BROWN	BULK SAND	30/50
OTHER	BULK SAND	100 Mesh

Frac Stage 42 on 11/8/2017 20:50

Proposed? No	Type HYDRAULIC FRACTURE	Date 11/8/2017	String (Deployment Method) PRODUCTION, 19,690.0ftKB			Top Depth (ftKB) 9,614.0	Bottom Depth (ftKB) 9,816.0
Post Job Frac Gradient (...) Pump Power Max (hp) 0.77		Proppant Designed (lb)	Proppant In Formation (lb) 542,981.0	Proppant In Wellbore (lb)	Proppant Total (lb) 542,981.0	Clean Volume Design (bbl)	Total Clean Volume (bbl) 9,851.00
Open Wellhead (psi) 2,039.0		End of Job ISIP (psi) 3,263.0	Close Wellhead (psi) 3,080.0	Breakdown Pressure (psi) 5,380.0	Max Treating Pressure (...) 8,614.0	Avg Treating Pressure (...) 6,198.0	Max Slurry Rate (bbl/min) 90
Avg Slurry Rate (bbl/min) 89							

Comment  
Name = STAGE 42, Stage Count = 0

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)
OPEN WELLHEAD	11/8/2017 20:50	11/8/2017 20:51						
ACID SPEARHEAD	11/8/2017 20:51	11/8/2017 20:55	24.00	24.00				
PAD	11/8/2017 20:55	11/8/2017 21:17	1,452.00	1,476.00				
SLURRY	11/8/2017 21:17	11/8/2017 21:23	476.00	1,952.00	OTHER, 100 Mesh	0.50	9,961.0	9,961.0
SLURRY	11/8/2017 21:23	11/8/2017 21:29	524.00	2,476.00	OTHER, 100 Mesh	0.75	17,638.0	27,599.0
SLURRY	11/8/2017 21:29	11/8/2017 21:36	595.00	3,071.00	OTHER, 100 Mesh	1.00	27,029.0	54,628.0
SLURRY	11/8/2017 21:36	11/8/2017 21:42	528.00	3,599.00	OTHER, 100 Mesh	1.25	26,016.0	80,644.0
SLURRY	11/8/2017 21:42	11/8/2017 21:49	619.00	4,218.00	BROWN, 40/70	0.75	20,528.0	101,172.0
SLURRY	11/8/2017 21:49	11/8/2017 21:58	714.00	4,932.00	BROWN, 40/70	1.00	30,472.0	131,644.0
SLURRY	11/8/2017 21:58	11/8/2017 22:08	857.00	5,789.00	BROWN, 40/70	1.50	54,167.0	185,811.0
SLURRY	11/8/2017 22:08	11/8/2017 22:19	948.00	6,737.00	BROWN, 40/70	2.00	74,702.0	260,513.0
SLURRY	11/8/2017 22:19	11/8/2017 22:28	738.00	7,475.00	BROWN, 30/50	2.00	28,983.0	289,496.0
SLURRY	11/8/2017 22:28	11/8/2017 22:38	810.00	8,285.00	BROWN, 30/50	2.50	117,888.0	407,384.0
SLURRY	11/8/2017 22:38	11/8/2017 22:49	842.00	9,127.00	BROWN, 30/50	3.00	108,982.0	516,366.0
SLURRY	11/8/2017 22:49	11/8/2017 22:52	301.00	9,428.00	BROWN, 30/50	3.50	26,615.0	542,981.0
FLUSH	11/8/2017 22:52	11/8/2017 22:58	423.00	9,851.00				542,981.0
CLOSE WELLHEAD	11/8/2017 22:58	11/8/2017 22:58		9,851.00				542,981.0

Proppants

Type	Des	Sand Size
BROWN	BULK SAND	40/70
BROWN	BULK SAND	30/50
OTHER	BULK SAND	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	11/8/2017 09:19	4.38	10,076.0	10,078.0			
No	Yes	FRAC PLUG	11/8/2017 17:45	4.38	9,836.0	9,838.0			
No	Yes	FRAC PLUG	11/9/2017 01:35	4.37	9,100.0	9,102.0			
No	Yes	FRAC PLUG	11/9/2017 03:00	4.37	9,050.0	9,052.0			

PIONEER

NATURAL RESOURCES

UNIVERSITY 7-43 113H

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

OCM  
11/10/2017  
16  
043124  
\$5,296,678.00  
\$4,554,844.20  
\$29,545.04

FRAC FLEET / CREW #

Contractor

PIONEER PUMPING SERVICES

Rig #

BULLPEN

SSN  
ID00003144

API/UWI  
42-003-47567-0000

Property Sub  
927638-113

Field Name  
SPRABERRY (TREND AREA)

Open Formation  
LOWER SPRABERRY SHALE  
(SPBY L C1)

Spud Date  
8/30/2017

TD (max) (ftKB)  
19,705.0

Job Category  
ORIG COMPLETION

Primary Job Type  
OCM

Start Date  
10/25/2017

End Date

Job Status  
IN PROGRESS

Responsible Grp 2  
STIM ENG - JOSH MEASLES

Job Dates

Date

Type  
MILESTONE

Subtype  
TURN OVER TO PRODUCTION

Note

Date  
10/28/2017

Type  
MILESTONE

Subtype  
READY TO START (RTS)

Note

Date  
11/9/2017

Type  
PLAN

Subtype  
STIMULATION END

Note

Safety Checks

Time

Type

Des

Tour

Com

06:01

MEETING

PRE-TOUR

DAY

Held safety meeting with PPS-4 and all third party vendors. Discussed safety awareness and job duties.

Daily Contacts on Location

Contact Name

Title

Tour

Mobile

Alt Mobile #

Note

MORALES, JAMES

SUPERINTENDENT

432-634-4135

MEASLES, JOSH

ENGINEER

432-214-3508

WINKLER, RYAN

FOREMAN

DAY

254-205-8247

ELLIS, BOBBY

FOREMAN

DAY

325-574-3651

TREJO, JEREMIAH

FOREMAN

NIGHT

682-229-0983

HATHCOAT, ANDREW

SUPERVISOR

NIGHT

903-439-5529

Personnel Log

Company

Count

NINE ENERGY SERVICE INC

8

PNR PUMPING SERVICES LLC

24

LIFT CRANE SERVICE LLC

4

NEW WAVE WATER TRANSFER

8

PNR PUMPING SERVICES LLC

7

TETRA TECHNOLOGIES INC

4

Daily Operations

Operations at Report Time  
RDMO All Vendors

Daily Goal Description

Daily Goal - Last 24

Operations Summary  
Below Grade Cellars  
RDMO All Vendors

Operations Next Report Period  
STIM OPS

Remarks  
NO ACCIDENTES 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

00:00

18

STIM, POST OPS

SETUP

RURD

RDMO PPS and Third Parties

NORMAL

00:00

06:00

6

STIM, POST OPS

NONOPS

SHUT\_IN

No Activity

NORMAL

Fluid Summary

Fluid

Cum to Well (bbl)

To well (bbl)

Cum from Well (bbl)

From well (bbl)

Left to recover (bbl)

DISPOSED

435.0

435.0

-435.0

WELL FLUID

448,950.0

448,950.0

Interval Problems

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

Ref #

End Date

Dur (Net) (hr)

Excl...

Accountable Party

Est Cost (Cost)

Comment

Rigs

Contractor

Rig #

Start Date

RR Date

Rig Type

CDK PERFORATING (NINE ENERGY)

4

10/26/2017 06:01

11/9/2017 03:25

WIRELINE

PIONEER PUMPING SERVICES

BULLPEN

10/26/2017 06:01

11/9/2017 03:25

FRAC FLEET

PIONEER PUMPING SERVICES

4

10/26/2017 06:01

11/9/2017 03:25

FRAC FLEET

DIESEL, FUEL

Total Received  
86,316.0

Total Consumed  
86,416.0

Total Returned  
0.0

Stimulations Summary

Stim/Treat Company  
PIONEER PUMPING SERVICES

Diversion Company

Diversion Method  
COMPOSITE PLUG

Start Date  
10/28/2017 02:30

End Date  
11/8/2017 23:00

Job  
OCM, 10/25/2017 06:00

Number of Treatment Intervals  
42

Design Number of Treatment Intervals  
42

Volume Clean Total (bbl)  
447,414.00

Proppant Total (lb)  
25,199,657.0

PIONEER  
NATURAL RESOURCES

UNIVERSITY 7-43 113H

FRAC FLEET / CREW #	
Contractor	Rig #
PIONEER PUMPING SERVICES	4

Job:	OCM
Report Date:	11/10/2017
Report #:	16
AFE #:	043124
Total AFE + Sup:	\$5,296,678.00
Cum Field Estimate:	\$4,554,844.20
Daily Field Estimate:	\$29,545.04

PIONEER

NATURAL RESOURCES

UNIVERSITY 7-43 113H

FRAC FLEET / CREW #

Contractor

PIONEER PUMPING SERVICES

Rig #

BULL PEN

Job:

Report Date:

Report #:

AFE #:

Total AFE + Sup:

Cum Field Estimate:

Daily Field Estimate:

OCM

11/15/2017

21

043124

\$5,296,678.00

\$4,926,608.91

\$66,438.75

SSN

ID00003144

API/UWI

42-003-47567-0000

Property Sub

927638-113

Field Name

SPRABERRY (TREND AREA)

Open Formation

LOWER SPRABERRY SHALE (SPBY L C1)

Spud Date

8/30/2017

TD (max) (ftKB)

19,705.0

Job Category

ORIG COMPLETION

Primary Job Type

OCM

Start Date

10/25/2017

End Date

Job Status

IN PROGRESS

Responsible Grp 2

STIM ENG - JOSH MEASLES

Job Dates

Date

Type

MILESTONE

Subtype

TURN OVER TO PRODUCTION

Note

Date

10/28/2017

Type

MILESTONE

Subtype

READY TO START (RTS)

Note

Date

11/9/2017

Type

PLAN

Subtype

STIMULATION END

Note

Safety Checks

Time

Type

Des

Tour

Com

06:00

MEETING

JSA

DAY

Held JSA/Job parameter review meeting.

06:00

MEETING

PRE-TOUR

DAY

Went over safety procedures for testing and day operations on all equipment for salt DO OPS, good relief, good communication, slips/trips/falls, muster areas, emergency drivers, EAP, using spotters, and overhead loads.

17:30

MEETING

PRE-TOUR

NIGHT

Held safety meting w/ all crews. Discussed job scope, EAP and R2LB. Also discussed making connections, trapped pressure and proper lifting technique.

Daily Contacts on Location

Contact Name

Title

Tour

Mobile

Alt Mobile #

Note

MOYERS, BENNY

SUPERVISOR

940-389-3334

940-255-8579

MAXIE, BOBBY

SUPERINTENDE NT

432-631-3460

CRUSE, JUSTIN

ENGINEER

214-543-0608

KAUFFMAN, KURT

FOREMAN

DAY

713-203-1651

WOOD, JACK

FOREMAN

NIGHT

361-550-1844

HAWKINS, BRADY

FOREMAN

NIGHT

432-235-8008

Personnel Log

Company

Count

PIONEER WELL SERVICES LLC

10

LONG STAR TRUCKING & FIELD SVC

4

CLEMENTS FLUID INC

8

PIONEER NATURAL RESOURCES USA INC

2

KLX ENERGY SERVICES LLC

2

RIMROCK SERVICES LLC

2

Daily Operations

Operations at Report Time

DO OPS

Daily Goal Description

PLUGS DRILLED PER DAY

Daily Goal - Last 24

10.0

Operations Summary

Completed full circulation this AM and Drilled CFP's #23 through #22. PWS #33 went down due to thrown fan belts and overheating, circulated @ 14613' until rig repaired. Resume drillout and drilled CFPs #21 through #19, CBU, DO CFP's 18-16, CBU @ report time.

CFP's drilled this 24 hrs: 8

Present Operations: CBU

Present Depth: 16,132'.

NPT: 1.88 hrs.-replacing belts on Rig # 33.

Avg. Drill Time: 38 min.

Avg. Time Plug to Plug: 94 min.

Avg. Pump Rate: 2.5 bpm.

Avg. Pump Pressure: 1400 psi.

Avg. Return Rate: 2.45 bpm.

Avg. Return Pressure: 86 psi.

Avg. RPMs: 130 rpm.

Avg. Torque: 3650 ft./lbs.

Avg. Choke: Gut

Avg. Plug Parts: Small to Medium

Avg. Sand: Light/Medium

Avg. Flare: None

Total 24 hr. Salt System loss: 124 bbl.

Daily Goal last 24 hrs: 10 CFPs

Daily Goal next 24 hrs: 10 CFPs

Operations Next Report Period

Drillout Ops.

Remarks

Frac tanks in use: 356/314/607/274/400/523/482. Roll-Off Box # R-018.

Time Log

Start Time

06:00

End Time

09:27

Dur (hr)

3.45

Phase

POSTSTIM, DRL OUT

Activity

WORKOVER

Operation

WOV\_DOP

Com

Wash down and drillout CFP's #23 through #22. Wash down to 471 Jnt. @ 14613'.

Ops Category

NORMAL

Prob Ref #

Prob Hrs (hr)

Frac Stage

09:27

11:20

1.89

POSTSTIM, DRL OUT

WORKOVER

WOV\_CIRC

PWS #33 had the fan belts come off and started over heating. Stop washing down hole one to CFP #22 @ 14636'. EOT @ 14613', circulate hole while waiting on mechanic and parts to arrive and repair.

NORMAL

29

1.88

11:20

21:48

10.46

POSTSTIM, DRL OUT

WORKOVER

WOV\_DOP

Resume Drilloug Ops. Drill CFP's #22 through #19..

NORMAL

21:48

22:35

0.79

POSTSTIM, DRL OUT

WORKOVER

WOV\_RIH

RIH to 15,542' on jt. # 501.

NORMAL

22:35

00:25

1.834

POSTSTIM, DRL OUT

WORKOVER

WOV\_CIRC

Circulate well clean w/bit @ 15,542'.

NORMAL

00:25

04:45

4.34

POSTSTIM, DRL OUT

WORKOVER

WOV\_DOP

DO CFP's 18-16.

NORMAL



PIONEER  
NATURAL RESOURCES

UNIVERSITY 7-43 113H

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

OCM  
11/15/2017  
21  
043124  
\$5,296,678.00  
\$4,926,608.91  
\$66,438.75

FRAC FLEET / CREW #

Contractor	Rig #
PIONEER PUMPING SERVICES	4

Time Log

Start Time	End Time	Dur (hr)	Phase	Activity	Operation	Com	Ops Category	Prob Ref #	Prob Hrs (hr)	Frac Stage
04:45	06:00	1.25	POSTSTIM, DRL OUT	WORKOVER	WOV_CIRC	Circulate well clean with bit @ 16,132'.	NORMAL			

Fluid Summary

Fluid	Cum to Well (bbl)	To well (bbl)	Cum from Well (bbl)	From well (bbl)	Left to recover (bbl)
DISPOSED			435.0		-435.0
WELL FLUID	448,950.0				448,950.0

Interval Problems

WORKOVER, PULLING UNIT, ENGINE, 11/14/2017 09:27

Ref #	End Date	Dur (Net) (hr)	Excl... No	Accountable Party	Est Cost (Cost)	Comment
29	11/14/2017 11:20	1.88	No	PIONEER WELL SERVICES LLC		PWS #33 had the fan belts come off and started over heating. Stop washing down hole one to CFP #22 @ 14636'. EOT @ 14613', circulate hole while waiting on mechanic and parts to arrive and repair.

Rigs

Contractor	Rig #	Start Date	RR Date	Rig Type
CDK PERFORATING (NINE ENERGY)	4	10/26/2017 06:01	11/9/2017 03:25	WIRELINE
PIONEER PUMPING SERVICES	BULLPEN	10/26/2017 06:01	11/9/2017 03:25	FRAC FLEET
PIONEER PUMPING SERVICES	4	10/26/2017 06:01	11/9/2017 03:25	FRAC FLEET
PIONEER WELL SERVICE	33	11/10/2017 06:00		WORKOVER

Drill Strings

Drill String Name	Drill Bit	Date Pick Up	Date Out of Hole	Reason
DRILL OUT - WORKOVER	4 5/8in, SWD-PDC-463-REG2, 170961	11/11/2017		

Drill String Components

Item Des	Icon	OD (in)	Len (ft)
FLOAT SUB	Float Sub	3.37	2.06
R NIPPLE (OVER SHOT)	Profile nipple 2	3.43	0.92

DIESEL, FUEL

Total Received	Total Consumed	Total Returned
86,316.0	86,416.0	0.0

Stimulations Summary

Stim/Treat Company	Diversion Company	Diversion Method	Start Date	End Date	Job
PIONEER PUMPING SERVICES		COMPOSITE PLUG	10/28/2017 02:30	11/8/2017 23:00	OCM, 10/25/2017 06:00
Number of Treatment Intervals	Design Number of Treatment Intervals	Volume Clean Total (bbl)	Proppant Total (lb)		
42	42	447,414.00	25,199,657.0		

Other In Hole

Des	OD (in)	Top (ftKB)	Btm (ftKB)	Pull Date	Plug Drill Out Duration (min)
FRAC PLUG	4.38	16,070.0	16,072.0	11/15/2017	30.00
FRAC PLUG	4.38	15,836.0	15,838.0	11/15/2017	60.00
FRAC PLUG	4.38	15,596.0	15,598.0	11/15/2017	25.00
FRAC PLUG	4.38	15,356.0	15,358.0	11/14/2017	28.00
FRAC PLUG	4.38	15,116.0	15,118.0	11/14/2017	25.00
FRAC PLUG	4.38	14,876.0	14,878.0	11/14/2017	64.00
FRAC PLUG	4.38	14,636.0	14,638.0	11/14/2017	40.00
FRAC PLUG	4.38	14,396.0	14,398.0	11/14/2017	30.00

PIONEER

NATURAL RESOURCES

UNIVERSITY 7-43 113H

Job: OCM

Report Date: 11/18/2017

Report #: 24

AFE #: 043124

Total AFE + Sup: \$5,296,678.00

Cum Field Estimate: \$5,162,298.58

Daily Field Estimate: \$62,426.54

FRAC FLEET / CREW #

Contractor

PIONEER PUMPING SERVICES

Rig #

BULL PEN

SSN

ID00003144

API/UWI

42-003-47567-0000

Property Sub

927638-113

Field Name

SPRABERRY (TREND AREA)

Open Formation

LOWER SPRABERRY SHALE (SPBY L C1)

Spud Date

8/30/2017

TD (max) (ftKB)

19,705.0

Job Category

ORIG COMPLETION

Primary Job Type

OCM

Start Date

10/25/2017

End Date

Job Status

IN PROGRESS

Responsible Grp 2

STIM ENG - JOSH MEASLES

Job Dates

Date

Type

Subtype

Note

10/28/2017

MILESTONE

TURN OVER TO PRODUCTION

11/9/2017

MILESTONE

READY TO START (RTS)

11/9/2017

PLAN

STIMULATION END

Safety Checks

Time

Type

Des

Tour

Com

06:00

MEETING

PRE-TOUR

DAY

Went over safety procedures for testing and day operations on all equipment for salt DO OPS, good relief, good communication, slips/trips/falls, muster areas, emergency drivers, EAP, using spotters, and overhead loads.

06:00

MEETING

JSA

DAY

Held JSA/Job parameter review meeting.

18:00

MEETING

PRE-TOUR

NIGHT

Went over safety procedures for testing and day operations on all equipment for salt DO OPS, good relief, good communication, slips/trips/falls, muster areas, emergency drivers, EAP, using spotters, and overhead loads.

18:00

MEETING

JSA

NIGHT

Held JSA/Job parameter review meeting.

Daily Contacts on Location

Contact Name

Title

Tour

Mobile

Alt Mobile #

Note

MOYERS, BENNY

SUPERVISOR

940-389-3334

940-255-8579

MAXIE, BOBBY

SUPERINTENDE NT

432-631-3460

CRUSE, JUSTIN

ENGINEER

214-543-0608

KAUFFMAN, KURT

FOREMAN

DAY

713-203-1651

WOOD, JACK

FOREMAN

NIGHT

361-550-1844

HAWKINS, BRADY

FOREMAN

NIGHT

432-235-8008

Personnel Log

Company

Count

PIONEER WELL SERVICES LLC

10

LONG STAR TRUCKING & FIELD SVC

4

CLEMENTS FLUID INC

8

PIONEER NATURAL RESOURCES USA INC

2

KLX ENERGY SERVICES LLC

2

RIMROCK SERVICES LLC

2

Daily Operations

Operations at Report Time

Daily Goal Description

Daily Goal - Last 24

DO OPS

PLUGS DRILLED PER DAY

0.0

Operations Summary

Finish circulating bottoms up. Circulate 10 lb brine water around to clean out salt solution. Pumped 576 bbls of 10lb brine total. Recovered 377 bbls of salt solution. Pump F/W around to displace 10 lb brine water. Pump 625 bbls of F/W and got 525 BBLS of brine back. Pull out of hole laying down with swivel. Lay down 7 JTS with swivel. Started having trouble pulling. stalling swivel out and pulling up to 140,000. Spotting some pipe to help with friction.( Work over rig having trouble with drum line and air supply to clutch)

Repaired rig, contunue POOH with swivel while pumping from 627 Jnt. to 559 Jnt. Then LD swivel and POOH to 500 Jnt. at report time. EOT @ 15511' @ report time.

Daily goal last 24 Hrs.:POOH with workstring

Daily goal next 24 Hrs: Finish POOH with Work string and RIH with Production.

Operations Next Report Period

Drillout Ops. POOH

Remarks

Frac tanks in use: 356/314/607/274/400/523/482. Roll-Off Box # R-018.

Time Log

Start Time

End Time

Dur (hr)

Phase

Activity

Operation

Com

Ops Category

Prob Ref #

Prob Hrs (hr)

Frac Stage

06:00

07:00

1

POSTSTIM, DRL OUT

WORKOVER

WOV\_CIRC

Finish circulating bottoms up.

NORMAL

07:00

10:40

3.68

POSTSTIM, DRL OUT

WORKOVER

WOV\_CIRC

Circulate 10lb brine water around to clean out salt solution. Pumped 576 bbls of 10lb brine total. Recovered 377 bbls of salt solution.

NORMAL

10:40

14:00

3.33

POSTSTIM, DRL OUT

WORKOVER

WOV\_CIRC

Pump F/W around to displace 10 lb brine water. Pump 625 bbls of F/W and got 525 BBLS of brine back.

NORMAL

14:00

18:00

4

POSTSTIM, DRL OUT

WORKOVER

WOV\_POOH

Pull out of hole laying down with swivel. Lay down 7 JTS with swivel. Started having trouble pulling. stalling swivel out and pulling up to 140,000. Spotting some pipe to help with friction.( Work over rig having trouble with drum line and air supply to clutch). Work on air system and was able to get to building pressure.

NORMAL

30

3.00

18:00

20:30

2.5

POSTSTIM, DRL OUT

WORKOVER

WOV\_CIRC

Pump 5 bbl. slug of pipe on pipe followed by fresh water with a .25 per 10 concentration of pipe on pipe through the curve. Treat 240 bbl. 10# Brine water in tank 314 with pkr fluid chems.

NORMAL

PIONEER

NATURAL RESOURCES

UNIVERSITY 7-43 113H

Job:

Report Date:

Report #:

AFE #:

Total AFE + Sup:

Cum Field Estimate:

Daily Field Estimate:

OCM

11/18/2017

24

043124

\$5,296,678.00

\$5,162,298.58

\$62,426.54

FRAC FLEET / CREW #

Contractor

PIONEER PUMPING SERVICES

Rig #

4

Time Log

Start Time	End Time	Dur (hr)	Phase	Activity	Operation	Com	Ops Category	Prob Ref #	Prob Hrs (hr)	Frac Stage
20:30	06:00	9.49	POSTSTIM, DRL OUT	WORKOVER	WOV_POOH	Resume POOH from 19446' - 627 Jnts. in hole, having to swivel out and tubing is extremely difficult breaking connections. Rigged up Clements and flowback to continue pumping and recirculating the fresh water pumped while POOH. After laying down 68 Jnts with swivel, lay down swivel and start pulling from 559 Jnt. to 500 Jmts in hole at report time. EOT at report time 15511'.	NORMAL			

Fluid Summary

Fluid	Cum to Well (bbl)	To well (bbl)	Cum from Well (bbl)	From well (bbl)	Left to recover (bbl)
DISPOSED WELL FLUID	448,950.0		435.0		-435.0
					448,950.0

Interval Problems

WORKOVER, PULLING UNIT, OTHER, 11/17/2017 15:00

Ref #	End Date	Dur (Net) (hr)	Excl...	Accountable Party	Est Cost (Cost)	Comment
30	11/17/2017 18:00	3.00	No	PIONEER WELL SERVICES LLC		PWS #33 having trouble with drum line spooling up and air supply for clutch

Rigs

Contractor	Rig #	Start Date	RR Date	Rig Type
CDK PERFORATING (NINE ENERGY)	4	10/26/2017 06:01	11/9/2017 03:25	WIRELINE
PIONEER PUMPING SERVICES	BULLPEN	10/26/2017 06:01	11/9/2017 03:25	FRAC FLEET
PIONEER PUMPING SERVICES	4	10/26/2017 06:01	11/9/2017 03:25	FRAC FLEET
PIONEER WELL SERVICE	33	11/10/2017 06:00		WORKOVER

Drill Strings

Drill String Name	Drill Bit	Date Pick Up	Date Out of Hole	Reason
DRILL OUT - WORKOVER	4 5/8in, SWD-PDC-463-REG2, 170961	11/11/2017		

Drill String Components

Item Des	Icon	OD (in)	Len (ft)
FLOAT SUB	Float Sub	3.37	2.06
R NIPPLE (OVER SHOT)	Profile nipple 2	3.43	0.92

DIESEL, FUEL

Total Received	Total Consumed	Total Returned
86,316.0	86,416.0	0.0

DIESEL, DYED

Total Received	Total Consumed	Total Returned
525.0	525.0	0.0

DIESEL, DYED

Total Received	Total Consumed	Total Returned
175.0	175.0	0.0

DIESEL, DYED

Total Received	Total Consumed	Total Returned
526.0	526.0	0.0

Stimulations Summary

Stim/Treat Company	Diversion Company	Diversion Method	Start Date	End Date	Job
PIONEER PUMPING SERVICES		COMPOSITE PLUG	10/28/2017 02:30	11/8/2017 23:00	OCM, 10/25/2017 06:00

Number of Treatment Intervals	Design Number of Treatment Intervals	Volume Clean Total (bbl)	Proppant Total (lb)
42	42	447,414.00	25,199,657.0

PIONEER

NATURAL RESOURCES

UNIVERSITY 7-43 113H

FRAC FLEET / CREW #

Contractor

PIONEER PUMPING SERVICES

Rig #

BULLPEN

Job:

Report Date:

Report #:

AFE #:

Total AFE + Sup:

Cum Field Estimate:

Daily Field Estimate:

OCM

11/19/2017

25

043124

\$5,296,678.00

\$5,224,790.33

\$62,491.75

SSN

ID00003144

API/UWI

42-003-47567-0000

Property Sub

927638-113

Field Name

SPRABERRY (TREND AREA)

Open Formation

LOWER SPRABERRY SHALE (SPBY L C1)

Spud Date

8/30/2017

TD (max) (ftKB)

19,705.0

Job Category

ORIG COMPLETION

Primary Job Type

OCM

Start Date

10/25/2017

End Date

Job Status

IN PROGRESS

Responsible Grp 2

STIM ENG - JOSH MEASLES

Job Dates

Date

Type

Subtype

Note

10/28/2017

MILESTONE

TURN OVER TO PRODUCTION

11/9/2017

MILESTONE

READY TO START (RTS)

11/9/2017

PLAN

STIMULATION END

Safety Checks

Time

Type

Des

Tour

Com

06:00

MEETING

JSA

DAY

Held JSA/Job parameter review meeting.

06:00

MEETING

PRE-TOUR

DAY

Went over safety procedures for testing and day operations on all equipment for salt DO OPS, good relief, good communication, slips/trips/falls, muster areas, emergency drivers, EAP, using spotters, and overhead loads.

18:00

MEETING

JSA

NIGHT

Held JSA/Job parameter review meeting.

18:00

MEETING

PRE-TOUR

NIGHT

Went over safety procedures for testing and day operations on all equipment for salt DO OPS, good relief, good communication, slips/trips/falls, muster areas, emergency drivers, EAP, using spotters, and overhead loads.

Daily Contacts on Location

Contact Name

Title

Tour

Mobile

Alt Mobile #

Note

MOYERS, BENNY

SUPERVISOR

940-389-3334

940-255-8579

MAXIE, BOBBY

SUPERINTENDENT

432-631-3460

CRUSE, JUSTIN

ENGINEER

214-543-0608

KAUFFMAN, KURT

FOREMAN

DAY

713-203-1651

WOOD, JACK

FOREMAN

NIGHT

361-550-1844

HAWKINS, BRADY

FOREMAN

NIGHT

432-235-8008

Personnel Log

Company

Count

PIONEER WELL SERVICES LLC

10

LONG STAR TRUCKING & FIELD SVC

4

CLEMENTS FLUID INC

8

PIONEER NATURAL RESOURCES USA INC

2

KLX ENERGY SERVICES LLC

2

RIMROCK SERVICES LLC

2

SAGERIDER INC

2

TEAM OIL TOOLS LP

1

FLOWCO PRODUCTION SOLUTIONS

1

FLOW CONTROL PRODUCTS

1

Daily Operations

Operations at Report Time

Daily Goal Description

Daily Goal - Last 24

DO OPS

PLUGS DRILLED PER DAY

0.0

Operations Summary

523 JTS in the hole at S/C. Continue pulling out of hole. Lay down 177 JTS. Pickup swivel on JT 346 at 10,743. Circulate 414 BBLS of F/W around . Rig down swivel and continue laying down. Lay down 57 JTS. Pump 46 BBLS of 10 lb H/W mixed with packer fluid down tubing. Pump 173 BBLS of 10 LB H/W mixed with packer fluid down casing. Shut in pressure on casing was 80psi. Let well pressure stabilize 20 min. Bleed well down to 0 psi. Close in backside and resme POOH to surface. MIRU SageRider, FLOWco, Flowcap, Team. RIH with Production string design. Depth at report time 200', SageRider having to splice line at report time. .

Goal Last 24 hrs; POOH and RIH with production.

Goal Next 24 Hrs. Complete RIH and set production, RD and move bridge and rig to next well.

Operations Next Report Period

Drillout Ops. POOH

Remarks

Frac tanks in use: 356/314/607/274/400/523/482. Roll-Off Box # R-018.

Time Log

Start Time

End Time

Dur (hr)

Phase

Activity

Operation

Com

Ops Category

Prob Ref #

Prob Hrs (hr)

Frac Stage

06:00

10:40

4.68

POSTSTIM, DRL OUT

WORKOVER

WOV\_POOH

Continue laying down pipe. Lay down 177 jts.

NORMAL

10:40

13:10

2.5

POSTSTIM, DRL OUT

WORKOVER

WOV\_CIRC

Pickup swivel on JT 346 at 10,743. Circulate hole with 414 bbls of F/W. Rig down swivel.

NORMAL

13:10

15:15

2.08

POSTSTIM, DRL OUT

WORKOVER

WOV\_POOH

Pull out of hole laying down with 57 JTS.

NORMAL

15:15

18:00

2.75

POSTSTIM, DRL OUT

WORKOVER

WOV\_CIRC

Pump 46 BBLS of 10 lb H/W mixed with packer fluid down tubing. Pump 214 BBLS of 10 LB H/W mixed with packer fluid down casing. Shut well in and pressure was 80psi. Bleed well down to 0 psi.

NORMAL

18:00

22:15

4.25

POSTSTIM, POST DO

WORKOVER

WOV\_POOH

Continue POOH laying down work string.

NORMAL

22:15

03:40

5.41

POSTSTIM, SET PROD

SETUP

RURD

OOH, Set up to run production. Rack and tally production tbg. Remove BIW stripper, spot and MIRU SageRider, Flowco, Flowcap, Team Pkr.

NORMAL

03:40

06:00

2.33

POSTSTIM, SET PROD

WORKOVER

WOV\_TBG

RIH with Production string design. Depth at report time 200', SageRider having to make splice at report time.

NORMAL

Fluid Summary

Fluid

Cum to Well (bbl)

To well (bbl)

Cum from Well (bbl)

From well (bbl)

Left to recover (bbl)

DISPOSED WELL FLUID

448,950.0

435.0

-435.0

448,950.0

PIONEER

NATURAL RESOURCES

UNIVERSITY 7-43 113H

Job: OCM

Report Date: 11/19/2017

Report #: 25

AFE #: 043124

Total AFE + Sup: \$5,296,678.00

Cum Field Estimate: \$5,224,790.33

Daily Field Estimate: \$62,491.75

FRAC FLEET / CREW #

Contractor

Rig #

PIONEER PUMPING SERVICES

4

Interval Problems

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

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

Contractor	Rig #	Start Date	RR Date	Rig Type
CDK PERFORATING (NINE ENERGY)	4	10/26/2017 06:01	11/9/2017 03:25	WIRELINE
PIONEER PUMPING SERVICES	BULLPEN	10/26/2017 06:01	11/9/2017 03:25	FRAC FLEET
PIONEER PUMPING SERVICES	4	10/26/2017 06:01	11/9/2017 03:25	FRAC FLEET
PIONEER WELL SERVICE	33	11/10/2017 06:00		WORKOVER

Drill Strings

Drill String Name	Drill Bit	Date Pick Up	Date Out of Hole	Reason
DRILL OUT - WORKOVER	4 5/8in, SWD-PDC-463-REG2, 170961	11/11/2017	11/18/2017	PBTD

Drill String Components

Item Des	Icon	OD (in)	Len (ft)
FLOAT SUB	Float Sub	3.37	2.06
R NIPPLE (OVER SHOT)	Profile nipple 2	3.43	0.92

DIESEL, FUEL

Total Received	Total Consumed	Total Returned
86,316.0	86,416.0	0.0

DIESEL, DYED

Total Received	Total Consumed	Total Returned
525.0	525.0	0.0

DIESEL, DYED

Total Received	Total Consumed	Total Returned
175.0	175.0	0.0

DIESEL, DYED

Total Received	Total Consumed	Total Returned
526.0	526.0	0.0

Job Supply Amounts

Date	Supply Item Des	Type	Received	Consumed	Returned	Cum Received	Cum Consumed	Cum Returned
11/18/2017 15:46	DIESEL	DYED				526.0	526.0	0.0

DIESEL, DYED

Total Received	Total Consumed	Total Returned
240.0	240.0	0.0

Job Supply Amounts

Date	Supply Item Des	Type	Received	Consumed	Returned	Cum Received	Cum Consumed	Cum Returned
11/18/2017 15:46	DIESEL	DYED	240	240	0	240.0	240.0	0.0

Stimulations Summary

Stim/Treat Company	Diversion Company	Diversion Method	Start Date	End Date	Job
PIONEER PUMPING SERVICES		COMPOSITE PLUG	10/28/2017 02:30	11/8/2017 23:00	OCM, 10/25/2017 06:00
Number of Treatment Intervals	Design Number of Treatment Intervals	Volume Clean Total (bbl)	Proppant Total (lb)		
42	42	447,414.00	25,199,657.0		



PIONEER

NATURAL RESOURCES

UNIVERSITY 7-43 113H

Job:

Report Date:

Report #:

AFE #:

Total AFE + Sup:

Cum Field Estimate:

Daily Field Estimate:

OCM

11/20/2017

26

043124

\$5,296,678.00

\$5,384,546.30

\$157,985.97

SSN

ID00003144

API/UWI

42-003-47567-0000

Property Sub

927638-113

Field Name

SPRABERRY (TREND AREA)

Open Formation

LOWER SPRABERRY SHALE (SPBY L C1)

Spud Date

8/30/2017

TD (max) (ftKB)

19,705.0

Job Category

ORIG COMPLETION

Primary Job Type

OCM

Start Date

10/25/2017

End Date

Job Status

IN PROGRESS

Responsible Grp 2

STIM ENG - JOSH MEASLES

Job Dates

Date

Type

Subtype

Note

10/28/2017

MILESTONE

TURN OVER TO PRODUCTION

11/9/2017

MILESTONE

READY TO START (RTS)

11/9/2017

PLAN

STIMULATION END

Safety Checks

Time

Type

Des

Tour

Com

06:00

MEETING

PRE-TOUR

NIGHT

Went over safety procedures for testing and day operations on all equipment for salt DO OPS, good relief, good communication, slips/trips/falls, muster areas, emergency drivers, EAP, using spotters, and overhead loads.

06:00

MEETING

JSA

DAY

Held JSA/Job parameter review meeting.

Daily Contacts on Location

Contact Name

Title

Tour

Mobile

Alt Mobile #

Note

MOYERS, BENNY

SUPERVISOR

940-389-3334

940-255-8579

MAXIE, BOBBY

SUPERINTENDE NT

432-631-3460

CRUSE, JUSTIN

ENGINEER

214-543-0608

KAUFFMAN, KURT

FOREMAN

DAY

713-203-1651

WOOD, JACK

FOREMAN

NIGHT

361-550-1844

HAWKINS, BRADY

FOREMAN

NIGHT

432-235-8008

Personnel Log

Company

Count

PIONEER WELL SERVICES LLC

10

LONG STAR TRUCKING & FIELD SVC

4

CLEMENTS FLUID INC

8

PIONEER NATURAL RESOURCES USA INC

2

KLX ENERGY SERVICES LLC

2

RIMROCK SERVICES LLC

2

SAGERIDER INC

2

TEAM OIL TOOLS LP

1

FLOWCO PRODUCTION SOLUTIONS

1

FLOW CONTROL PRODUCTS

1

Daily Operations

Operations at Report Time

DO OPS

Daily Goal Description

PLUGS DRILLED PER DAY

Daily Goal - Last 24

0.0

Operations Summary

Continue in hole with production string design. Continue in hole with production string design. Set packer and land tubing on JT 280 at 9397.38. Rig down Flowcap and Sage Rider . Nipple down running plate, bird bath, mud cross, BOP, flow cross and bottom two master valve. Nipple up well head and production tree. Rig down PWS #33 adn release. Final Completions report. .

Operations Next Report Period

Drillout Ops. Rig down move off

Remarks

Frac tanks in use: 356/314/607/274/400/523/482. Roll-Off Box # R-018.

Time Log

Start Time

End Time

Dur (hr)

Phase

Activity

Operation

Com

Ops Category

Prob Ref #

Prob Hrs (hr)

Frac Stage

06:00

12:00

6

POSTSTIM, SET PROD

WORKOVER

WOV\_TBG

Continue in hole with production string design. Land tubing on JT 280. Set packer at 9397.38

NORMAL

12:00

18:00

6

POSTSTIM, POST OPS

MICROSEISMIC

MS\_RD

Rig down Flowcap and Sage Rider . Nipple down running plate, bird bath, mud cross, BOP, flow cross and bottom to master valves. Nipple up well head and rig down PWS #33 and release to RU on 114H. Final completions report.

NORMAL

Fluid Summary

Fluid

Cum to Well (bbl)

To well (bbl)

Cum from Well (bbl)

From well (bbl)

Left to recover (bbl)

DISPOSED WELL FLUID

448,950.0

435.0

-435.0

448,950.0

448,950.0

Interval Problems

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

Ref #

End Date

Dur (Net) (hr)

Excl...

Accountable Party

Est Cost (Cost)

Comment

Rigs

Contractor

Rig #

Start Date

RR Date

Rig Type

CDK PERFORATING (NINE ENERGY)

4

10/26/2017 06:01

11/9/2017 03:25

WIRELINE

PIONEER PUMPING SERVICES

BULLPEN

10/26/2017 06:01

11/9/2017 03:25

FRAC FLEET

PIONEER PUMPING SERVICES

4

10/26/2017 06:01

11/9/2017 03:25

FRAC FLEET

PIONEER WELL SERVICE

33

11/10/2017 06:00

11/19/2017 17:15

WORKOVER

DIESEL, FUEL

Total Received

86,316.0

Total Consumed

86,416.0

Total Returned

0.0

DIESEL, DYED

Total Received

845.0

Total Consumed

845.0

Total Returned

0.0

PIONEER  
NATURAL RESOURCES

UNIVERSITY 7-43 113H

Job: OCM

Report Date: 11/20/2017

Report #: 26

AFE #: 043124

Total AFE + Sup: \$5,296,678.00

Cum Field Estimate: \$5,384,546.30

Daily Field Estimate: \$157,985.97

FRAC FLEET / CREW #

Contractor

Rig #

PIONEER PUMPING SERVICES

4

Job Supply Amounts

Date	Supply Item Des	Type	Received	Consumed	Returned	Cum Received	Cum Consumed	Cum Returned
11/19/2017 10:34	DIESEL	DYED	320	320	0	845.0	845.0	0.0

DIESEL, DYED

Total Received 175.0	Total Consumed 175.0	Total Returned 0.0
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DIESEL, DYED

Total Received 526.0	Total Consumed 526.0	Total Returned 0.0
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DIESEL, DYED

Total Received 240.0	Total Consumed 240.0	Total Returned 0.0
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DIESEL, DYED

Total Received 0.0	Total Consumed 0.0	Total Returned 0.0
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Stimulations Summary

Stim/Treat Company PIONEER PUMPING SERVICES	Diversion Company	Diversion Method COMPOSITE PLUG	Start Date 10/28/2017 02:30	End Date 11/8/2017 23:00	Job OCM, 10/25/2017 06:00
Number of Treatment Intervals 42	Design Number of Treatment Intervals 42	Volume Clean Total (bbl) 447,414.00	Proppant Total (lb) 25,199,657.0		