

Daily Completion - Workover Report

Well Name:	University FV #2H - Greystone Oil & Gas	Date:	2/24/15
Field:	Emma - Devonian	Safety Mtg:	Yes
AFE No:	Dev 10-100	AFE Amount:	
Purpose:	Original Completion of Well		
Rig Contractor:	Basic Energy Services	Operator:	Julian
Present Operation:	RDMO - Final Report		
Comp Days:		Workover Days:	
Original PBTD:		New PBTD:	
Orig. Open Perfs:		Testing Days:	
New Perfs:		BOPD:	
		BWPD:	
		MCFPD:	
	5176' - 6544'		
Daily Costs:	\$ 4,900.00	Prior Cum Cost:	\$ 4,062,337.00

Cum Cost:	\$ 4,067,237.00
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Activity:

Crew AOL and standby on ESP start-up. Flowline complete and start pump at 1:30pm. Fluid to surface in 6 minutes. Blow a fuse in the disconnect, called electricians. RD, release all equipment. Move off location, job complete.

-----FINAL REPORT-----

Expense Breakdown:

Bits	
BOP/Rentals	\$ 500.00
Cementing	
Coil Unit	
Flowback/Tracers	
Forklift	
Hot Oilier	
Kill Truck	
PKR Service	
Pumping Unit	
Reverse unit	
Rig	\$ 2,900.00
Rods	
Roustabout	
Stimulation	
Supervision	\$ 1,500.00
Tbg Testing	
Tech. Super.	
Trucking	
Tubing	
Vacuum Trucks	
Well Equip.	
Wellhead	
Wireline Service	
WO Fluids/Water	
Sfc Equipment	
N2	
Mixing Plant	
Casing Crew	
Laydown Machine	
DAILY TOTAL	\$ 4,900.00

Total Load (bbls): _____

Load to Recover: _____

Rig Supervisor: Jody Linthicum

Swab (hrs): _____

Daily Recovery (bbls) _____

Total Recover (bbls): _____

BO: _____

Daily Completion - Workover Report

Well Name:	University FV #2H - Greystone Oil & Gas	Date:	2/23/15
Field:	Emma - Devonian	Safety Mtg:	Yes
AFE No:	Dev 10-100	AFE Amount:	
Purpose:	Original Completion of Well		
Rig Contractor:	Basic Energy Services	Operator:	Julian
Present Operation:	Bad Weather	Pusher:	Chad
Comp Days:		Workover Days:	
Original PBTD:		New PBTD:	
Orig. Open Perfs:		Testing Days:	
New Perfs:		BOPD:	
		BWPD:	
		MCFPD:	
	5176' - 6544'		
Daily Costs:	\$ 2,500.00	Prior Cum Cost:	\$ 4,059,837.00
		Cum Cost:	\$ 4,062,337.00

Activity:

SD Operations due to hazardous weather conditions

Expense Breakdown:

Bits	
BOP/Rentals	\$ 500.00
Cementing	
Coil Unit	
Flowback/Tracers	
Forklift	
Hot Oilier	
Kill Truck	
PKR Service	
Pumping Unit	
Reverse unit	
Rig	\$ 2,000.00
Rods	
Roustabout	
Stimulation	
Supervision	\$ -
Tbg Testing	
Tech. Super.	
Trucking	
Tubing	
Vacuum Trucks	
Well Equip.	
Wellhead	
Wireline Service	
WO Fluids/Water	
Sfc Equipment	
N2	
Mixing Plant	
Casing Crew	
Laydown Machine	
DAILY TOTAL	\$ 2,500.00

Total Load (bbls): _____
Load to Recover: _____
Rig Supervisor: Jody Linthicum

Swab (hrs): _____
Daily Recovery (bbls) _____
Total Recover (bbls): _____
BO: _____

Daily Completion - Workover Report

Well Name:	University FV #2H - Greystone Oil & Gas	Date:	2/21/15
Field:	Emma - Devonian	Safety Mtg:	Yes
AFE No:	Dev 10-100	AFE Amount:	
Purpose:	Original Completion of Well		
Rig Contractor:	Basic Energy Services	Operator:	Julian
Present Operation:	POOH	Pusher:	Chad
Comp Days:		Workover Days:	
Original PBTD:		New PBTD:	
Orig. Open Perfs:		Testing Days:	
New Perfs:		BOPD:	
		BWPD:	
		MCFPD:	
	5176' - 6544'		
Daily Costs:	\$ 5,750.00	Prior Cum Cost:	\$ 4,054,087.00

Cum Cost:	\$ 4,059,837.00
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Activity:
 7:00am, crews AOL. Resume RIH w/ ESP. TIH w/ ESP, ND BOP stack and tbg pulled heavy. PBR @ 9940', EOT @ 9894' and decision made to move up 1 jt. LD 1 jt, ND BOP, make-up hanger, wire in pig tail and land tbg.
 NOTE: Wellhead is 10 3/4" Larkin and hanger OD is 8 7/8". NU master valve, complete surface wiring. Checks good from panel to pump and ready flowline. SISDFTWE 1:00pm.

Expense Breakdown:	
Bits	
BOP/Rentals	\$ 500.00
Cementing	
Coil Unit	
Flowback/Tracers	
Forklift	
Hot Oilier	
Kill Truck	\$ 750.00
PKR Service	
Pumping Unit	
Reverse unit	
Rig	\$ 3,000.00
Rods	
Roustabout	
Stimulation	
Supervision	\$ 1,500.00
Tbg Testing	
Tech. Super.	
Trucking	
Tubing	
Vacuum Trucks	
Well Equip.	
Wellhead	
Wireline Service	
WO Fluids/Water	
Sfc Equipment	
N2	
Mixing Plant	
Casing Crew	
Laydown Machine	
DAILY TOTAL	\$ 5,750.00

Total Load (bbls):	Swab (hrs):
Load to Recover:	Daily Recovery (bbls)
Rig Supervisor: Jody Linthicum	Total Recover (bbls):
	BO:

Daily Completion - Workover Report

Well Name:	University FV #2H - Greystone Oil & Gas	Date:	2/20/15
Field:	Emma - Devonian	Safety Mtg:	Yes
AFE No:	Dev 10-100	AFE Amount:	
Purpose:	Original Completion of Well		
Rig Contractor:	Basic Energy Services	Operator:	Julian
Present Operation:	POOH	Pusher:	Chad
Comp Days:		Workover Days:	
Original PBTD:		New PBTD:	
Orig. Open Perfs:		Testing Days:	
New Perfs:		BOPD:	
		BWPD:	
		MCFPD:	
	5176' - 6544'		
Daily Costs:	\$ 7,400.00	Prior Cum Cost:	\$ 4,046,687.00

Cum Cost:	\$ 4,054,087.00
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Activity:
 7:00am, crews AOL. POOH w/ 10 stands and resume pump assembly. Pump complete, connect cable and RIH w/ 5 bands per joint. TIH to 5097', change out spool and make cable splice. RIH to 6149' and will resume in the AM. SISDFTD 6:30pm.

Expense Breakdown:	
Bits	
BOP/Rentals	\$ 500.00
Cementing	
Coil Unit	
Flowback/Tracers	
Forklift	
Hot Oilier	
Kill Truck	\$ 1,200.00
PKR Service	
Pumping Unit	
Reverse unit	
Rig	\$ 4,200.00
Rods	
Roustabout	
Stimulation	
Supervision	\$ 1,500.00
Tbg Testing	
Tech. Super.	
Trucking	
Tubing	
Vacuum Trucks	
Well Equip.	
Wellhead	
Wireline Service	
WO Fluids/Water	
Sfc Equipment	
N2	
Mixing Plant	
Casing Crew	
Laydown Machine	
DAILY TOTAL	\$ 7,400.00

Total Load (bbls):	Swab (hrs):
Load to Recover:	Daily Recovery (bbls)
Rig Supervisor: Jody Linthicum	Total Recover (bbls):
	BO:

Daily Completion - Workover Report

Well Name:	University FV #2H - Greystone Oil & Gas	Date:	2/19/15
Field:	Emma - Devonian	Safety Mtg:	Yes
AFE No:	Dev 10-100	AFE Amount:	
Purpose:	Original Completion of Well		
Rig Contractor:	Basic Energy Services	Operator:	Julian
Present Operation:	POOH	Pusher:	Chad
Comp Days:		Workover Days:	
Original PBTD:		New PBTD:	
Orig. Open Perfs:		Testing Days:	
New Perfs:		BOPD:	
		BWPD:	
		MCFPD:	
	5176' - 6544'		
Daily Costs:	\$ 7,900.00	Prior Cum Cost:	\$ 4,038,787.00

Cum Cost:	\$ 4,046,687.00
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Activity:

7:30am – Crew AOL. Baker delivered wellhead equipment. Forklift standing by to unload drive equipment and POOH w/ kill string. ND BOP, change out flanges for ESP, NU BOP and wait on Baker. 1:00pm – ESP/drive on location. Set drive equipment and Tech prepping ESP. During pump build, O-rings were torn and have no replacement rings on hand and ran out of daylight. PU top section of pump, RIH w/ 10 stands and will resume in the AM. Baker lining up parts as needed. SISDFTD 7:30pm.

Expense Breakdown:

Bits	
BOP/Rentals	\$ 500.00
Cementing	
Coil Unit	
Flowback/Tracers	
Forklift	\$ 1,350.00
Hot Oilier	
Kill Truck	
PKR Service	
Pumping Unit	
Reverse unit	
Rig	\$ 4,200.00
Rods	
Roustabout	
Stimulation	
Supervision	\$ 1,500.00
Tbg Testing	
Tech. Super.	
Trucking	\$ 350.00
Tubing	
Vacuum Trucks	
Well Equip.	
Wellhead	
Wireline Service	
WO Fluids/Water	
Sfc Equipment	
N2	
Mixing Plant	
Casing Crew	
Laydown Machine	
DAILY TOTAL	\$ 7,900.00

Total Load (bbls): _____
Load to Recover: _____
Rig Supervisor: Jody Linthicum

Swab (hrs): _____
Daily Recovery (bbls) _____
Total Recover (bbls): _____
BO: _____

Daily Completion - Workover Report

Well Name:	University FV #2H - Greystone Oil & Gas	Date:	2/18/15
Field:	Emma - Devonian	Safety Mtg:	Yes
AFE No:	Dev 10-100	AFE Amount:	
Purpose:	Original Completion of Well		
Rig Contractor:	Basic Energy Services	Operator:	Julian
Present Operation:	Standby	Pusher:	Chad
Comp Days:		Workover Days:	
Original PBTD:		New PBTD:	
Orig. Open Perfs:		Testing Days:	
New Perfs:		BOPD:	
		BWPD:	
		MCFPD:	
	5176' - 6544'		
Daily Costs:	\$ 4,000.00	Prior Cum Cost:	\$ 4,034,787.00

Cum Cost:	\$ 4,038,787.00
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Activity:

Standby, waiting on Baker. At 5:30pm, Baker representative confirmed ready for AM install.

Expense Breakdown:

Bits	
BOP/Rentals	\$ 500.00
Cementing	
Coil Unit	
Flowback/Tracers	
Forklift	
Hot Oilier	
Kill Truck	
PKR Service	
Pumping Unit	
Reverse unit	
Rig	\$ 2,000.00
Rods	
Roustabout	
Stimulation	
Supervision	\$ 1,500.00
Tbg Testing	
Tech. Super.	
Trucking	
Tubing	
Vacuum Trucks	
Well Equip.	
Wellhead	
Wireline Service	
WO Fluids/Water	
Sfc Equipment	
N2	
Mixing Plant	
Casing Crew	
Laydown Machine	
DAILY TOTAL	\$ 4,000.00

Total Load (bbls): _____

Load to Recover: _____

Rig Supervisor: Jody Linthicum

Swab (hrs): _____

Daily Recovery (bbls) _____

Total Recover (bbls): _____

BO: _____

Daily Completion - Workover Report

Well Name:	University FV #2H - Greystone Oil & Gas	Date:	2/17/15
Field:	Emma - Devonian	Safety Mtg:	Yes
AFE No:	Dev 10-100	AFE Amount:	
Purpose:	Original Completion of Well		
Rig Contractor:	Basic Energy Services	Operator:	Julian
Present Operation:	POOH	Pusher:	Chad
Comp Days:		Workover Days:	
Original PBTD:		New PBTD:	
Orig. Open Perfs:		Testing Days:	
New Perfs:		BOPD:	
		BWPD:	
		MCFPD:	
	5176' - 6544'		
Daily Costs:	\$ 4,800.00	Prior Cum Cost:	\$ 4,029,987.00

Cum Cost:	\$ 4,034,787.00
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Activity:

8:00am. Crew AOL. POOH to 2000', SDFN. Waiting on Baker.

Expense Breakdown:

Bits	
BOP/Rentals	\$ 500.00
Cementing	
Coil Unit	
Flowback/Tracers	
Forklift	
Hot Oilier	
Kill Truck	\$ 800.00
PKR Service	
Pumping Unit	
Reverse unit	
Rig	\$ 2,000.00
Rods	
Roustabout	
Stimulation	
Supervision	\$ 1,500.00
Tbg Testing	
Tech. Super.	
Trucking	
Tubing	
Vacuum Trucks	
Well Equip.	
Wellhead	
Wireline Service	
WO Fluids/Water	
Sfc Equipment	
N2	
Mixing Plant	
Casing Crew	
Laydown Machine	
DAILY TOTAL	\$ 4,800.00

Total Load (bbls): _____

Load to Recover: _____

Rig Supervisor: Jody Linthicum

Swab (hrs): _____

Daily Recovery (bbls) _____

Total Recover (bbls): _____

BO: _____

Daily Completion - Workover Report

Well Name:	University FV #2H - Greystone Oil & Gas	Date:	2/16/15
Field:	Emma - Devonian	Safety Mtg:	Yes
AFE No:	Dev 10-100	AFE Amount:	
Purpose:	Original Completion of Well		
Rig Contractor:	Basic Energy Services	Operator:	Julian
Present Operation:	PU Tubing	Pusher:	Chad
Comp Days:		Workover Days:	
Original PBTD:		New PBTD:	
Orig. Open Perfs:		Testing Days:	
New Perfs:		BOPD:	
		BWPD:	
		MCFPD:	
	5176' - 6544'		
Daily Costs:	\$ 9,250.00	Prior Cum Cost:	\$ 4,020,737.00

Cum Cost:	\$ 4,029,987.00
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Activity:
 7:30am. Crews AOL. Resume PU 3 ½" and load 4 ½" out to Deep Well. RIH w/ 290 jts; POOH, standing back w/ 80 jts and will resume in the AM. Have all non-essential surface rentals released. SISDFTD 5:00pm.

Expense Breakdown:	
Bits	
BOP/Rentals	\$ 1,000.00
Cementing	
Coil Unit	
Flowback/Tracers	
Forklift	\$ 850.00
Hot Oilier	
Kill Truck	\$ 1,200.00
PKR Service	
Pumping Unit	
Reverse unit	
Rig	\$ 4,200.00
Rods	
Roustabout	
Stimulation	
Supervision	
Tbg Testing	
Tech. Super.	
Trucking	\$ 2,000.00
Tubing	
Vacuum Trucks	
Well Equip.	
Wellhead	
Wireline Service	
WO Fluids/Water	
Sfc Equipment	
N2	
Mixing Plant	
Casing Crew	
Laydown Machine	
DAILY TOTAL	\$ 9,250.00

Total Load (bbls):	Swab (hrs):
Load to Recover:	Daily Recovery (bbls):
Rig Supervisor: Jody Linthicum	Total Recover (bbls):
	BO:

Daily Completion - Workover Report

Well Name:	University FV #2H - Greystone Oil & Gas	Date:	2/13/15
Field:	Emma - Devonian	Safety Mtg:	Yes
AFE No:	Dev 10-100	AFE Amount:	
Purpose:	Original Completion of Well		
Rig Contractor:	Basic Energy Services	Operator:	Julian
Present Operation:	LD Casing	Pusher:	Chad
Comp Days:		Workover Days:	
Original PBTD:		New PBTD:	
Orig. Open Perfs:		Testing Days:	
New Perfs:		BOPD:	
		BWPD:	
		MCFPD:	
	5176' - 6544'		
Daily Costs:	\$ 91,827.00	Prior Cum Cost:	\$ 3,928,910.00

Cum Cost:	\$ 4,020,737.00
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Activity:

7:30am Crews AOL. Well has light gas, blow down and resume LD casing. Move in/ground rack 306 jts 3 1/2" 9.3# L80 EUE. POOH w/ seal assembly, move 234 jts 4 1/2" off racks. Call KC Pipe to PU and move to Deep Well for inspection. Rack 3 1/2" and tally in w/ 2000' for kill string and shut in. SDFWE 6:00pm.

Expense Breakdown:

Bits	
BOP/Rentals	\$ 1,000.00
Cementing	
Coil Unit	
Flowback/Tracers	
Forklift	\$ 810.00
Hot Oilier	
Kill Truck	\$ 1,200.00
PKR Service	
Pumping Unit	
Reverse unit	
Rig/Crane	\$ 4,200.00
Rods	
Roustabout	
Stimulation	
Supervision	\$ 1,500.00
Tbg Testing	
Tech. Super.	
Trucking	\$ 4,200.00
Tubing	\$ 70,826.00
Vacuum Trucks	
Well Equip.	
Wellhead	
Wireline Service	
WO Fluids/Water	
Sfc Equipment	
N2	
Mixing Plant	
Casing Crew	\$ 6,291.00
Laydown Machine	\$ 1,800.00
DAILY TOTAL	\$ 91,827.00

Total Load (bbls): _____
Load to Recover: _____
Rig Supervisor: Jody Linthicum

Swab (hrs): _____
Daily Recovery (bbls) _____
Total Recover (bbls): _____
BO: _____

Daily Completion - Workover Report

Well Name:	University FV #2H - Greystone Oil & Gas	Date:	2/12/15
Field:	Emma - Devonian	Safety Mtg:	Yes
AFE No:	Dev 10-100	AFE Amount:	
Purpose:	Original Completion of Well		
Rig Contractor:	Basic Energy Services	Operator:	Julian
Present Operation:	Rig to pull casing		
Comp Days:		Workover Days:	
Original PBTD:		New PBTD:	
Orig. Open Perfs:		Testing Days:	
New Perfs:		BOPD:	
		BWPD:	
		MCFPD:	
	5176' - 6544'		
Daily Costs:	\$ 28,812.00	Prior Cum Cost:	\$ 3,900,098.00

Cum Cost:	\$ 3,928,910.00
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Activity:
 7:30am Crews AOL and RU casing crew and lay down equipment. Pull mandrel hanger, make-up collar, work csg to 180K and not pulling out of PBR. Call for wireline w/ tbg punchers. RU wireline, locate sub at top of seal assembly, shoot (4) holes and fluid equalized. POOH w/ wireline, PU on csg. At 140K, csg pulling free. RD wireline and POOH, laying down. POOH to 6100' and will resume in the AM. SDFD 6:00pm.

Expense Breakdown:	
Bits	
BOP/Rentals	\$ 1,000.00
Cementing	
Coil Unit	
Flowback/Tracers	
Forklift	
Hot Oilier	
Kill Truck	\$ 1,200.00
PKR Service	
Pumping Unit	
Reverse unit	
Rig/Crane	\$ 4,200.00
Rods	
Roustabout	
Stimulation	
Supervision	\$ 1,500.00
Tbg Testing	
Tech. Super.	
Trucking	
Tubing	
Vacuum Trucks	
Well Equip.	
Wellhead	\$ 5,500.00
Wireline Service	\$ 8,612.00
WO Fluids/Water	
Sfc Equipment	
N2	
Mixing Plant	
Casing Crew	\$ 5,000.00
Laydown Machine	\$ 1,800.00
DAILY TOTAL	\$ 28,812.00

Total Load (bbls):	Swab (hrs):
Load to Recover:	Daily Recovery (bbls)
Rig Supervisor: Jody Linthicum	Total Recover (bbls):
	BO:

Daily Completion - Workover Report

Well Name:	University FV #2H - Greystone Oil & Gas	Date:	2/11/15
Field:	Emma - Devonian	Safety Mtg:	Yes
AFE No:	Dev 10-100	AFE Amount:	
Purpose:	Original Completion of Well		
Rig Contractor:	Panther/Absolute	Operator:	Julian
Present Operation:		Pusher:	Chad
Comp Days:		Workover Days:	
Original PBTD:		New PBTD:	
Orig. Open Perfs:		Testing Days:	
New Perfs:		BOPD:	
		BWPD:	
		MCFPD:	
	5176' - 6544'		
Daily Costs:	\$ 6,700.00	Prior Cum Cost:	\$ 3,893,398.00

Cum Cost:	\$ 3,900,098.00
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Activity:

Decision made last night and move in 11" BOP equipment. Caliper all parts and find DSA still in 7" range. Decision is return to standard 7 1/16" equipment for ease of handling/safety due to fact ESP cannot be landed through BOP without ND first. ND remainder of stack, NU BOP and have annular delivered for ESP run because 3 1/2" x 4" flat rams unavailable. Will POOH w/ csg in the AM and push ESP install to 2/13/15.

Expense Breakdown:

Bits	
BOP/Rentals	\$ 1,000.00
Cementing	
Coil Unit	
Flowback/Tracers	
Forklift	
Hot Oilier	
Kill Truck	\$ 800.00
PKR Service	
Pumping Unit	
Reverse unit	
Rig/Crane	\$ 2,400.00
Rods	
Roustabout	
Stimulation	
Supervision	\$ 1,500.00
Tbg Testing	
Tech. Super.	
Trucking	\$ 1,000.00
Tubing	
Vacuum Trucks	
Well Equip.	
Wellhead	
Wireline Service	
WO Fluids/Water	
Sfc Equipment	
N2	
Mixing Plant	
Crane	
Motor/Tools	
DAILY TOTAL	\$ 6,700.00

Total Load (bbls): _____

Load to Recover: _____

Rig Supervisor: Jody Linthicum

Swab (hrs): _____

Daily Recovery (bbls) _____

Total Recover (bbls): _____

BO: _____

Daily Completion - Workover Report

Well Name:	University FV #2H - Greystone Oil & Gas	Date:	2/10/15
Field:	Emma - Devonian	Safety Mtg:	Yes
AFE No:	Dev 10-100	AFE Amount:	
Purpose:	Original Completion of Well		
Rig Contractor:	Panther/Absolute	Operator:	Julian
Present Operation:		Pusher:	Chad
Comp Days:		Workover Days:	
Original PBTD:		New PBTD:	
Orig. Open Perfs:		Testing Days:	
New Perfs:		BOPD:	
		BWPD:	
		MCFPD:	
	5176' - 6544'		
Daily Costs:	\$ 5,500.00	Prior Cum Cost:	\$ 3,887,898.00

Cum Cost:	\$ 3,893,398.00
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Activity:

Move in rig, mats, rack, BOP and RU. Have issue between BOP equipment (7") / ESP hanger (8 7/8") – will address in the AM.

Expense Breakdown:

Bits	
BOP/Rentals	\$ 1,500.00
Cementing	
Coil Unit	
Flowback/Tracers	
Forklift	
Hot Oilier	
Kill Truck	
PKR Service	
Pumping Unit	
Reverse unit	
Rig/Crane	\$ 1,500.00
Rods	
Roustabout	
Stimulation	
Supervision	\$ 1,500.00
Tbg Testing	
Tech. Super.	
Trucking	\$ 1,000.00
Tubing	
Vacuum Trucks	
Well Equip.	
Wellhead	
Wireline Service	
WO Fluids/Water	
Sfc Equipment	
N2	
Mixing Plant	
Crane	
Motor/Tools	
DAILY TOTAL	\$ 5,500.00

Total Load (bbls): _____

Load to Recover: _____

Rig Supervisor: Jody Linthicum

Swab (hrs): _____

Daily Recovery (bbls) _____

Total Recover (bbls): _____

BO: _____

Daily Completion - Workover Report

Well Name:	University FV #2H - Greystone Oil & Gas	Date:	2/6/15
Field:	Emma - Devonian	Safety Mtg:	Yes
AFE No:	Dev 10-100	AFE Amount:	
Purpose:	Original Completion of Well		
Rig Contractor:	Panther/Absolute	Operator:	Louis/Ron
Present Operation:		Pusher:	Carl/Clinton
Comp Days:		Workover Days:	
Original PBTD:		New PBTD:	
Orig. Open Perfs:		Testing Days:	
New Perfs:		BOPD:	
		BWPD:	
		MCFPD:	
	5176' - 6544'		
Daily Costs:	\$ 146,282.00	Prior Cum Cost:	\$ 3,741,616.00

Cum Cost:	\$ 3,887,898.00
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Activity:
 9:00am. RIH from short trip. Discussed w/ Mr. Bob Dimit and will make last attempt to move bit past stage #1, cluster 1 & 2. Tag @ 15,273', drill/push on debris – no hole made. Circulation dropping and POOH. RD and move off equipment. Completion work will resume 02/10/2015.

Expense Breakdown:	
Bits	
BOP/Rentals	\$ 750.00
Cementing	
Coil Unit	\$ 17,510.00
Flowback/Tracers	\$ 7,932.00
Forklift	
Hot Oilier	
Kill Truck	
PKR Service	
Pumping Unit	
Reverse unit	
Rig/Crane	
Rods	
Roustabout	
Stimulation	
Supervision	\$ 1,600.00
Tbg Testing	
Tech. Super.	
Trucking	
Tubing	
Vacuum Trucks	
Well Equip.	
Wellhead	
Wireline Service	
WO Fluids/Water	
Sfc Equipment	
N2	\$ 68,302.00
Mixing Plant	
Crane	\$ 6,500.00
Motor/Tools	\$ 43,688.00
DAILY TOTAL	\$ 146,282.00

Total Load (bbls):	Swab (hrs):
Load to Recover:	Daily Recovery (bbls)
Rig Supervisor: Jody Linthicum	Total Recover (bbls):
	BO:

Daily Completion - Workover Report

Well Name:	University FV #2H - Greystone Oil & Gas	Date:	2/5/15
Field:	Emma - Devonian	Safety Mtg:	Yes
AFE No:	Dev 10-100	AFE Amount:	
Purpose:	Original Completion of Well		
Rig Contractor:	Panther/Absolute	Operator:	Louis/Ron
Present Operation:		Pusher:	Carl/Clinton
Comp Days:		Workover Days:	
Original PBTD:		New PBTD:	
Orig. Open Perfs:		Testing Days:	
New Perfs:		BOPD:	
		BWPD:	
		MCFPD:	
Daily Costs:	\$ 108,050.00	Prior Cum Cost:	\$ 3,633,566.00

Cum Cost:	\$ 3,741,616.00
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Activity:

9:00am Waiting on circulation and decision is to load annular w/ N2. Pressure up to 2500 psi w/ N2, pump fluid down tbg @ ¼ bpm, dump csg pressure, work pipe and no movement. Tubing/Casing pressure indicates bridge is above perfs; re-load annular w/ N2 to 1500 psi, bring coil rate to 3.5 bpm, dump annular pressure, work pipe to 61K and POOH free. Make it out without incident; upon inspecting BHA, find bit and bit box stripped from motor and possibly laying somewhere between 14,116' to 15,455'. Discuss with Mr. Dimit, elect to RIH w/ motor and mill and push debris to PBTD, ensuring all perfs open. Change motor, PU mill, RIH and commingle N2 immediately. Tag @ 14,712', working pipe; lose returns and short trip. RIH to 14,712', start slowly pushing to TD. Tag @ 15,273', have lost returns twice here. Currently RIH from second short trip. 9:00am.

Expense Breakdown:

Bits	
BOP/Rentals	\$ 750.00
Cementing	
Coil Unit	\$ 40,000.00
Flowback/Tracers	\$ 2,800.00
Forklift	
Hot Oilier	
Kill Truck	
PKR Service	
Pumping Unit	
Reverse unit	
Rig/Crane	
Rods	
Roustabout	
Stimulation	
Supervision	\$ 1,500.00
Tbg Testing	
Tech. Super.	
Trucking	
Tubing	
Vacuum Trucks	
Well Equip.	
Wellhead	
Wireline Service	
WO Fluids/Water	
Sfc Equipment	
N2	\$ 35,000.00
Mixing Plant	\$ 8,500.00
Crane	\$ 6,500.00
Motor/Tools	\$ 13,000.00
DAILY TOTAL	\$ 108,050.00

Total Load (bbls): _____
Load to Recover: _____
Rig Supervisor: Jody Linthicum

Swab (hrs): _____
Daily Recovery (bbls) _____
Total Recover (bbls): _____
BO: _____

Daily Completion - Workover Report

Well Name:	University FV #2H - Greystone Oil & Gas	Date:	2/4/15
Field:	Emma - Devonian	Safety Mtg:	Yes
AFE No:	Dev 10-100	AFE Amount:	
Purpose:	Original Completion of Well		
Rig Contractor:	Panther/Absolute	Operator:	Louis/Ron
Present Operation:		Pusher:	Carl/Clinton
Comp Days:		Workover Days:	
Original PBTD:		New PBTD:	
Orig. Open Perfs:		Testing Days:	
New Perfs:		BOPD:	
		BWPD:	
		MCFPD:	
Daily Costs:	\$ 97,150.00	Prior Cum Cost:	\$ 3,536,416.00

Cum Cost:	\$ 3,633,566.00
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Activity:

8:00am POOH to 8000' and waiting on circulation. No returns after 2 ½ hours and POOH to 6000'. Circulation back after 7 hours in. RIH, drill plugs #15 and #16 and chasing stump to TD. Make it to 15,455', well went on vacuum. Pull back to 14,116' and hanging up; bit not stuck. Go offline w/ pumps, relax pressure, work pipe and no movement. Come back on w/ fluid/N2 and waiting in neutral for circulation to return @ 14,116'. Eight hours circulating, no returns; pump N2 down annular w/ fluid down tbg. Circulation pressure and annular equalized at 2400 psi. When SDFD, annular at 2400 psi and tbg at 0 psi (possible bridge). Put N2/fluid back on tbg. Holding 2400 psi on csg and continue to load formation. 9:00am.

Expense Breakdown:

Bits	
BOP/Rentals	\$ 750.00
Cementing	
Coil Unit	\$ 40,000.00
Flowback/Tracers	\$ 2,800.00
Forklift	
Hot Oilier	
Kill Truck	
PKR Service	
Pumping Unit	
Reverse unit	
Rig/Crane	
Rods	
Roustabout	
Stimulation	
Supervision	\$ 1,600.00
Tbg Testing	
Tech. Super.	
Trucking	
Tubing	
Vacuum Trucks	
Well Equip.	
Wellhead	
Wireline Service	
WO Fluids/Water	
Sfc Equipment	
N2	\$ 24,000.00
Mixing Plant	\$ 8,500.00
Crane	\$ 6,500.00
Motor/Tools	\$ 13,000.00
DAILY TOTAL	\$ 97,150.00

Total Load (bbls): _____

Load to Recover: _____

Rig Supervisor: Jody Linthicum

Swab (hrs): _____

Daily Recovery (bbls) _____

Total Recover (bbls): _____

BO: _____

Daily Completion - Workover Report

Well Name:	University FV #2H - Greystone Oil & Gas	Date:	2/3/15
Field:	Emma - Devonian	Safety Mtg:	Yes
AFE No:	Dev 10-100	AFE Amount:	
Purpose:	Original Completion of Well		
Rig Contractor:	Panther/Absolute	Operator:	Louis/Ron
Present Operation:		Pusher:	Carl/Clinton
Comp Days:		Workover Days:	
Original PBTD:		New PBTD:	
Orig. Open Perfs:		Testing Days:	
New Perfs:		BOPD:	
		BWPD:	
		MCFPD:	
Daily Costs:	\$ 105,150.00	Prior Cum Cost:	\$ 3,431,266.00
		Cum Cost:	\$ 3,536,416.00

Activity:

11:00am Drilling ahead from 14,371', make to 14,394'. Plug #13 turned loose and working through perfs. Was able to circulate without N2. Once plug #13 released we were losing returns; back on N2 and short trip. POOH TO 10,000', returns poor; pull to 8,000', circulation back, drop fluid rate, increase N2 and start RIH. Drill plug #14, chase to 14,827' and well on hard vacuum. POOH to 10,000' and wait on circulation. 8:00am.

Expense Breakdown:

Expense Breakdown:	
Bits	
BOP/Rentals	\$ 750.00
Cementing	
Coil Unit	\$ 40,000.00
Flowback/Tracers	\$ 2,800.00
Forklift	
Hot Oilier	
Kill Truck	
PKR Service	
Pumping Unit	
Reverse unit	
Rig/Crane	
Rods	
Roustabout	
Stimulation	
Supervision	\$ 1,600.00
Tbg Testing	
Tech. Super.	
Trucking	
Tubing	
Vacuum Trucks	\$ 10,000.00
Well Equip.	
Wellhead	
Wireline Service	
WO Fluids/Water	
Sfc Equipment	
N2	\$ 22,000.00
Mixing Plant	\$ 8,500.00
Crane	\$ 6,500.00
Motor/Tools	\$ 13,000.00
DAILY TOTAL	\$ 105,150.00

Total Load (bbls): _____
Load to Recover: _____
Rig Supervisor: Jody Linthicum

Swab (hrs): _____
Daily Recovery (bbls) _____
Total Recover (bbls): _____
BO: _____

Daily Completion - Workover Report

Well Name:	University FV #2H - Greystone Oil & Gas	Date:	2/2/15
Field:	Emma - Devonian	Safety Mtg:	Yes
AFE No:	Dev 10-100	AFE Amount:	
Purpose:	Original Completion of Well		
Rig Contractor:	Panther/Absolute	Operator:	Louis/Ron
Present Operation:		Pusher:	Carl/Clinton
Comp Days:		Workover Days:	
Original PBTD:		New PBTD:	
Orig. Open Perfs:		Testing Days:	
New Perfs:		BOPD:	
		BWPD:	
		MCFPD:	
Daily Costs:	\$ 94,350.00	Prior Cum Cost:	\$ 3,336,916.00

Cum Cost:	\$ 3,431,266.00
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Activity:

8:00am RIH, tag @ 14,342', continually stalling out. Make it to 14,351' and shoe action smoothing out. Make to 14,351', no hole being made and POOH. POOH w/ shoe, sand plug holding plug parts in shoe and VB had very little debris. PU 3.6" mill and RIH. Mill, tag 14,351', make to 14,354', snub in hard; 1800# differential and not stalling. Action indicates loose debris/sand bridge; psi also shows motor giving up and POOH. POOH w/ mill – cutting surface still good w/ slight leading edge wear. Change motor, PU mill tooth and RIH. Tag 14,355', make to 14,371' and drilling ahead slowly. 11:00am.

Expense Breakdown:

Bits	
BOP/Rentals	\$ 750.00
Cementing	
Coil Unit	\$ 40,000.00
Flowback/Tracers	
Forklift	
Hot Oilier	
Kill Truck	
PKR Service	
Pumping Unit	
Reverse unit	
Rig/Crane	
Rods	
Roustabout	
Stimulation	
Supervision	\$ 1,600.00
Tbg Testing	
Tech. Super.	
Trucking	
Tubing	
Vacuum Trucks	
Well Equip.	
Wellhead	
Wireline Service	
WO Fluids/Water	
Sfc Equipment	
N2	\$ 24,000.00
Mixing Plant	\$ 8,500.00
Crane	\$ 6,500.00
Motor/Tools	\$ 13,000.00
DAILY TOTAL	\$ 94,350.00

Total Load (bbls): _____
Load to Recover: _____
Rig Supervisor: Jody Linthicum

Swab (hrs): _____
Daily Recovery (bbls) _____
Total Recover (bbls): _____
BO: _____

Daily Completion - Workover Report

Well Name:	University FV #2H - Greystone Oil & Gas	Date:	2/1/15
Field:	Emma - Devonian	Safety Mtg:	Yes
AFE No:	Dev 10-100	AFE Amount:	
Purpose:	Original Completion of Well		
Rig Contractor:	<u>Panther/Absolute</u>	Operator:	<u>Louis/Ron</u>
Present Operation:	POOH		
Comp Days:		Workover Days:	
Original PBTD:		New PBTD:	
Orig. Open Perfs:		Testing Days:	
New Perfs:		BOPD:	
		BWPD:	
		MCFPD:	
Daily Costs:	\$ 105,150.00	Prior Cum Cost:	\$ 3,231,766.00
		Cum Cost:	\$ 3,336,916.00

Activity:

8:00am Washing to plug #13, again pushing remnants of plug #12, not passing 14,302'. Decision made to run Venturi basket/shoe for clean-up. Informed that water well was down, trucks en route; 3.8 hrs water on hand and POOH. Mill looks ok, PU VB/shoe and RIH; well on vacuum. Four trucks filling tanks, two trucks hauling from reserve to SWD and start N2 at surface. Trucks starting to catch up, took longer to get returns, and RIH from liner top. TIH w/ shoe, wash past 14,302', make to 14,342' and POOH. Venturi basket cavity 1/3 full, shoe full of plug parts/large rubber/sand and very little slips or aluminum. Decision is redress for another VB/shoe run, trucks keeping up w/ fresh water, reserve pit no room, add four trucks to those hauling out and no word on water well status yet. Pause at liner top, build well pressure, and continue RIH. 8:00am.

Expense Breakdown:

Expense Breakdown:	
Bits	
BOP/Rentals	\$ 750.00
Cementing	
Coil Unit	\$ 40,000.00
Flowback/Tracers	\$ 2,800.00
Forklift	
Hot Oilier	
Kill Truck	
PKR Service	
Pumping Unit	
Reverse unit	
Rig/Crane	
Rods	
Roustabout	
Stimulation	
Supervision	\$ 1,600.00
Tbg Testing	
Tech. Super.	
Trucking	
Tubing	
Vacuum Trucks	\$ 10,000.00
Well Equip.	
Wellhead	
Wireline Service	
WO Fluids/Water	
Sfc Equipment	
N2	\$ 22,000.00
Mixing Plant	\$ 8,500.00
Crane	\$ 6,500.00
Motor/Tools	\$ 13,000.00
DAILY TOTAL	\$ 105,150.00

Total Load (bbls):	Swab (hrs):
Load to Recover:	Daily Recovery (bbls)
Rig Supervisor: <u>Jody Linthicum</u>	Total Recover (bbls):
	BO:

Daily Completion - Workover Report

Well Name:	University FV #2H - Greystone Oil & Gas	Date:	1/31/15
Field:	Emma - Devonian	Safety Mtg:	Yes
AFE No:	Dev 10-100	AFE Amount:	
Purpose:	Original Completion of Well		
Rig Contractor:	Panther/Absolute	Operator:	Louis/Ron
Present Operation:	POOH		
Comp Days:		Workover Days:	
Original PBTD:		New PBTD:	
Orig. Open Perfs:		Testing Days:	
New Perfs:		BOPD:	
		BWPD:	
		MCFPD:	
Daily Costs:	\$ 95,150.00	Prior Cum Cost:	\$ 3,136,616.00
		Cum Cost:	\$ 3,231,766.00

Activity:

11:00am RIH, finish remnants of plug #7. Drill plugs #8 through #10 and tag #11, short trip. Wellhead psi is down, AV's low and circulate another bottoms up at liner top. RIH, drill plugs #11 & #12, washing through perfs to #13 and losing circulation. Wellhead @ 150 psi, send sweep and short trip. Back washing to #13. 8:00am.

Expense Breakdown:

Bits	
BOP/Rentals	\$ 750.00
Cementing	
Coil Unit	\$ 40,000.00
Flowback/Tracers	\$ 2,800.00
Forklift	
Hot Oilier	
Kill Truck	
PKR Service	
Pumping Unit	
Reverse unit	
Rig/Crane	
Rods	
Roustabout	
Stimulation	
Supervision	\$ 1,600.00
Tbg Testing	
Tech. Super.	
Trucking	
Tubing	
Vacuum Trucks	
Well Equip.	
Wellhead	
Wireline Service	
WO Fluids/Water	
Sfc Equipment	
N2	\$ 22,000.00
Mixing Plant	\$ 8,500.00
Crane	\$ 6,500.00
Motor/Tools	\$ 13,000.00
DAILY TOTAL	\$ 95,150.00

Total Load (bbls): _____
Load to Recover: _____
Rig Supervisor: Jody Linthicum

Swab (hrs): _____
Daily Recovery (bbls) _____
Total Recover (bbls): _____
BO: _____

Daily Completion - Workover Report

Well Name:	University FV #2H - Greystone Oil & Gas	Date:	1/30/15
Field:	Emma - Devonian	Safety Mtg:	Yes
AFE No:	Dev 10-100	AFE Amount:	
Purpose:	Original Completion of Well		
Rig Contractor:	Panther/Absolute	Operator:	Louis/Ron
Present Operation:	POOH		
Comp Days:		Workover Days:	
Original PBTD:		New PBTD:	
Orig. Open Perfs:		Testing Days:	
New Perfs:		BOPD:	
		BWPD:	
		MCFPD:	
Daily Costs:	\$ 92,650.00	Prior Cum Cost:	\$ 3,043,966.00

Cum Cost:	\$ 3,136,616.00
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Activity:

11:00am Circulation pressures good, back on N2. Wash over #6, tag #7 and POOH. POOH w/ shoe and CBP was in shoe but didn't make the trip out. Still picking up large amount of loose debris in Venturi basket. Have shoe en route w/wires and diamonds. Use downtime to PM equipment. RIH w/ shoe, tag #7, plug turned loose and push to 13,107'. Getting sticky and POOH in hopes of having core holding debris in shoe/Venturi basket. POOH w/ shoe and have what looks to be partial of CBP #6 core in shoe; VB full of sand/plug debris w/ ball from #6 and still see no material that would have torn up bits/mill/VB catch fingers and decision is run reverse clutch 5 blade junk mill. RIH 18', stack out, measure from 0- point and find mill is at casing hanger mandrel. Well on vacuum, open tbg head valves, watch mill slide past and after seeing connections, confirm mill at hanger. Thoughts are possibly CBP remnants at top of tie-back. Attempt to gently mill through. Motor continually stalls and pull up. Decision made to ND to master valve, lift off stack and open master valve to inspect. Master valve clear, hanger looks ok, and if debris was present it fell back. NU, test and RIH w/ no tags. 11:00am.

Expense Breakdown:

Bits	
BOP/Rentals	\$ 750.00
Cementing	
Coil Unit	\$ 40,000.00
Flowback/Tracers	\$ 2,800.00
Forklift	
Hot Oilier	
Kill Truck	
PKR Service	
Pumping Unit	
Reverse unit	
Rig/Crane	
Rods	
Roustabout	
Stimulation	
Supervision	\$ 1,600.00
Tbg Testing	
Tech. Super.	
Trucking	
Tubing	
Vacuum Trucks	
Well Equip.	
Wellhead	
Wireline Service	
WO Fluids/Water	
Sfc Equipment	
N2	\$ 19,500.00
Mixing Plant	\$ 8,500.00
Crane	\$ 6,500.00
Motor/Tools	\$ 13,000.00
DAILY TOTAL	\$ 92,650.00

Total Load (bbls): _____
Load to Recover: _____
Rig Supervisor: Jody Linthicum

Swab (hrs): _____
Daily Recovery (bbls) _____
Total Recover (bbls): _____
BO: _____

Daily Completion - Workover Report

Well Name:	University FV #2H - Greystone Oil & Gas	Date:	1/29/15
Field:	Emma - Devonian	Safety Mtg:	Yes
AFE No:	Dev 10-100	AFE Amount:	
Purpose:	Original Completion of Well		
Rig Contractor:	<u>Panther/Absolute</u>	Operator:	Louis/Ron
Present Operation:	POOH		
Comp Days:		Workover Days:	
Original PBTD:		New PBTD:	
Orig. Open Perfs:		Testing Days:	
New Perfs:		BOPD:	
		BWPD:	
		MCFPD:	
Daily Costs:	\$ 89,150.00	Prior Cum Cost:	\$ 2,954,816.00
		Cum Cost:	\$ 3,043,966.00

Activity:

8:00am POOH w/ mill and shows uniform wear all across surface w/ edges slightly rolled. Decision is to run Varel mill tooth. Tag @ 12,613', inching forward to 12,620'; decide to pull bit, send sweep and made to 12,632'. Made to 12,640', stopped making hole. Options discussed w/ Mr. Bob Dimit and decision is run full opening shoe w/ Venturi basket and POOH. POOH w/ bit and severe damage again to inner cutters on all three cones w/outer gauge row also damaged and sharpened. PU Venturi basket w/ 3 7/8" wash-over shoe and RIH. Tag @ 12,640' and circulating pressures running high – 6200 psi. Unable to stay on contact due to high stalls and POOH. POOH w/BHA, surface test. No agitator action, change agitator/motor and RIH w/ shoe. Tag 12,640', pressure issue still present. Consider issue is FR being used and change FR. Circulating pressure dropped from 6200 psi to 3200 psi and washing ahead. Decision made to run wash-over shoe to plug #6, burn over and POOH. 11:00am

Expense Breakdown:

Bits	
BOP/Rentals	\$ 750.00
Cementing	
Coil Unit	\$ 40,000.00
Flowback/Tracers	\$ 2,800.00
Forklift	
Hot Oilier	
Kill Truck	
PKR Service	
Pumping Unit	
Reverse unit	
Rig/Crane	
Rods	
Roustabout	
Stimulation	
Supervision	\$ 1,600.00
Tbg Testing	
Tech. Super.	
Trucking	
Tubing	
Vacuum Trucks	
Well Equip.	
Wellhead	
Wireline Service	
WO Fluids/Water	
Sfc Equipment	
N2	\$ 16,000.00
Mixing Plant	\$ 8,500.00
Crane	\$ 6,500.00
Motor/Tools	\$ 13,000.00
DAILY TOTAL	\$ 89,150.00

Total Load (bbls): _____
Load to Recover: _____
Rig Supervisor: Jody Linthicum

Swab (hrs): _____
Daily Recovery (bbls) _____
Total Recover (bbls): _____
BO: _____

Daily Completion - Workover Report

Well Name:	University FV #2H - Greystone Oil & Gas	Date:	1/28/15
Field:	Emma - Devonian	Safety Mtg:	Yes
AFE No:	Dev 10-100	AFE Amount:	
Purpose:	Original Completion of Well		
Rig Contractor:	Panther/Absolute	Operator:	Louis/Ron
Present Operation:	RIH w/ Venturi		
Comp Days:		Workover Days:	
Original PBTD:		New PBTD:	
Orig. Open Perfs:		Testing Days:	
New Perfs:		BOPD:	
		BWPD:	
		MCFPD:	
Daily Costs:	\$ 128,462.00	Prior Cum Cost:	\$ 2,826,354.00
		Cum Cost:	\$ 2,954,816.00

Activity:

8:00am RIH w/ Venturi basket. Able to circulate w/ out N2. Tag @ 12,600', make to 12,609' and POOH. POOH w/ Venturi basket – cavity full of plug parts, catch fingers broken; redress and RIH. Have to use N2 on second trip. Tag @ 12,609', work to 12,912', unable to pass 12,612' and POOH. POOH w/ Venturi basket – fingers again broken, cavity 1/3 full w/ slips-aluminum-sand. Decision is to pull Venturi basket, PU 5-blade mill and RIH. Tag @ 12,609', make to 12,619'; no hole being made and appears motor possibly getting weak. Also, have reached critical cycle point on coil. Will POOH to cut pipe, PU fresh BHA and inspect mill. 8:00am.

NOTE: Motor/Crane Prices reflect cost for 3 days.

Expense Breakdown:

Expense Breakdown:	
Bits	
BOP/Rentals	\$ 750.00
Cementing	
Coil Unit	\$ 40,000.00
Flowback/Tracers	\$ 2,800.00
Forklift	
Hot Oilier	
Kill Truck	
PKR Service	
Pumping Unit	
Reverse unit	
Rig/Crane	
Rods	
Roustabout	
Stimulation	
Supervision	\$ 1,600.00
Tbg Testing	
Tech. Super.	
Trucking	
Tubing	
Vacuum Trucks	
Well Equip.	
Wellhead	
Wireline Service	
WO Fluids/Water	
Sfc Equipment	
N2	\$ 16,000.00
Mixing Plant	\$ 8,500.00
Crane	\$ 19,500.00
Motor/Tools	\$ 39,312.00
DAILY TOTAL	\$ 128,462.00

Total Load (bbls): _____
Load to Recover: _____
Rig Supervisor: Jody Linthicum

Swab (hrs): _____
Daily Recovery (bbls) _____
Total Recover (bbls): _____
BO: _____

Daily Completion - Workover Report

Well Name:	University FV #2H - Greystone Oil & Gas	Date:	1/27/15
Field:	Emma - Devonian	Safety Mtg:	Yes
AFE No:	Dev 10-100	AFE Amount:	
Purpose:	Original Completion of Well		
Rig Contractor:	Panther/Absolute	Operator:	Louis/Ron
Present Operation:	Short Trip		
Comp Days:		Workover Days:	
Original PBTD:		New PBTD:	
Orig. Open Perfs:		Testing Days:	
New Perfs:		BOPD:	
		BWPD:	
		MCFPD:	
Daily Costs:	\$ 33,809.00	Prior Cum Cost:	\$ 2,792,545.00
		Cum Cost:	\$ 2,826,354.00

Activity:

8:00am Continue making short trip. Drill plug #5 in 17 minutes, slowly pushing stump to #6. Unable to make past perf @ 12,600' and decision is to POOH to PU Venturi basket. POOH w/ bit, have two cone failures and all of bit made it out. PU Venturi basket and have developed a leak on coil tubing unit swivel. Replacement parts will arrive 6:00am. Decision made to stop and SDFTN 8:30pm. CTU repaired, tested by 7:30am. NU stack and RIH w/ VB at 8:00am.

Expense Breakdown:

Bits	
BOP/Rentals	\$ 750.00
Cementing	
Coil Unit	\$ 9,559.00
Flowback/Tracers	\$ 2,800.00
Forklift	
Hot Oilier	
Kill Truck	
PKR Service	
Pumping Unit	
Reverse unit	
Rig/Crane	
Rods	
Roustabout	
Stimulation	
Supervision	\$ 1,600.00
Tbg Testing	
Tech. Super.	
Trucking	
Tubing	
Vacuum Trucks	
Well Equip.	
Wellhead	
Wireline Service	
WO Fluids/Water	
Sfc Equipment	
N2	\$ 13,131.00
Mixing Plant	\$ 5,969.00
DAILY TOTAL	\$ 33,809.00

Total Load (bbls):	Swab (hrs):
Load to Recover:	Daily Recovery (bbls)
Rig Supervisor: Jody Linthicum	Total Recover (bbls):
	BO:

Daily Completion - Workover Report

Well Name:	University FV #2H - Greystone Oil & Gas	Date:	1/26/15
Field:	Emma - Devonian	Safety Mtg:	Yes
AFE No:	Dev 10-100	AFE Amount:	
Purpose:	Original Completion of Well		
Rig Contractor:	Panther/Absolute	Operator:	Louis/Ron
Present Operation:	MIRU	Pusher:	Carl/Clinton
Comp Days:		Workover Days:	
Original PBTD:		New PBTD:	
Orig. Open Perfs:		Testing Days:	
New Perfs:		BOPD:	
		BWPD:	
		MCFPD:	
Daily Costs:	\$ 72,150.00	Prior Cum Cost:	\$ 2,720,395.00
		Cum Cost:	\$ 2,792,545.00

Activity:

01/25/15: Have frac stack removed down to flowcross.

01/26/15: 12:00pm. Move in coil tubing unit, N2, crane, mixing plant, motors, plug catcher/manifold and RU. PU motor BHA w/ 3 7/8" JZ bit. Test stack to 9500 psi, RIH; break circulation w/ 31 bbls and commingle 500 scf w/ 2.5 bpm fluid, holding 750 psi back pressure. Plug #1 gone in 10 minutes, wellhead dropped to 200 psi. Regain circulation and RIH. Plug #2 gone, working through perfs and tag plug #3 after 160 minutes w/ poor returns and short trip. Plugs #3 & #4 drilled out in 30 minutes each w/ 2.3 bpm and 600 scf. Returns are good, working on stump through perfs. Tag plug #5 and short tripping at 8:00am.

Expense Breakdown:

Bits	
BOP/Rentals	\$ 750.00
Cementing	
Coil Unit	\$ 40,000.00
Flowback/Tracers	\$ 2,800.00
Forklift	
Hot Oilier	
Kill Truck	
PKR Service	
Pumping Unit	
Reverse unit	
Rig/Crane	
Rods	
Roustabout	
Stimulation	
Supervision	\$ 1,600.00
Tbg Testing	
Tech. Super.	
Trucking	
Tubing	
Vacuum Trucks	
Well Equip.	
Wellhead	\$ 2,500.00
Wireline Service	
WO Fluids/Water	
Sfc Equipment	
N2	\$ 16,000.00
Mixing Plant	\$ 8,500.00
DAILY TOTAL	\$ 72,150.00

Total Load (bbls): _____

Load to Recover: _____

Rig Supervisor: Jody Linthicum

Swab (hrs): _____

Daily Recovery (bbls) _____

Total Recover (bbls): _____

BO: _____

Daily Completion - Workover Report

Well Name:	University FV #2H - Greystone Oil & Gas	Date:	1/24/15
Field:	Emma - Devonian	Safety Mtg:	Yes
AFE No:	Dev 10-100	AFE Amount:	
Purpose:	Original Completion of Well		
Rig Contractor:		Operator:	
Present Operation:	Pump Stages #16 & #17		
Comp Days:		Workover Days:	
Original PBTD:		New PBTD:	
Orig. Open Perfs:		Testing Days:	
New Perfs:	11,475', 11,395', 11,315'		
BOPD:		BWPD:	
MCFPD:			
Daily Costs:	\$ 290,198.00	Prior Cum Cost:	\$ 2,430,197.00
		Cum Cost:	\$ 2,720,395.00

Activity:

Pressure tested lines to 9800 psi. Drop frac plug ball ahead of acid.
Pumped Stage 16 with 3990 gallons of 15% HCl, 131,838 gallons cross-linked gel, 141,403 lbs 20/40 RC sand at 60 bpm. Set Damondback flow-thru frac plug @ 11,515'. Perforated Devonian @ 11,475', 11,395' and 11,315' with 19 shots.

Pressure tested lines to 9800 psi. Drop frac plug ball ahead of acid.
Pumped Stage 17 with 3990 gallons of 15% HCl, 129,738 gallons cross-linked gel, 142,283 lbs 20/40 RC sand at 60 bpm. JOB COMPLETE.
TOTALS: 67,170 gallons HCl, 62,242 bbls & 2,347,796 lbs 20/40 mesh.

Expense Breakdown:

Bits	
BOP/Rentals	
Cementing	
Coil Unit	
Flowback/Tracers	\$ 8,460.00
Forklift	
Hot Oilier	
Kill Truck	
PKR Service	
Pumping Unit	
Reverse unit	
Rig/Crane	\$ 13,430.00
Rods	
Roustabout	
Stimulation	\$ 241,200.00
Supervision	\$ 2,400.00
Tbg Testing	
Tech. Super.	
Trucking	
Tubing	
Vacuum Trucks	
Well Equip.	
Wellhead	\$ 3,000.00
Wireline Service	
WO Fluids/Water	\$ 4,050.00
Sfc Equipment	
Workstring	
LD Machine	
Perforating	\$ 10,353.00
Frac Plugs	\$ 3,105.00
Pressure Control	\$ 4,200.00
DAILY TOTAL	\$ 290,198.00

Total Load (bbls):	Swab (hrs):
Load to Recover:	Daily Recovery (bbls)
Rig Supervisor: Jody Linthicum	Total Recover (bbls):
	BO:

Daily Completion - Workover Report

Well Name:	University FV #2H - Greystone Oil & Gas	Date:	1/23/15
Field:	Emma - Devonian	Safety Mtg:	Yes
AFE No:	Dev 10-100	AFE Amount:	
Purpose:	Original Completion of Well		
Rig Contractor:		Operator:	
Present Operation:	Pump Stages #14 & #15		
Comp Days:		Workover Days:	
Original PBTD:		New PBTD:	
Orig. Open Perfs:			
New Perfs:	12,195', 12,115', 12,035' & 11,955', 11,875', 11,795'		
	11,720', 11,635', 11,555'		
Daily Costs:	\$ 295,996.00	Prior Cum Cost:	\$ 2,134,201.00

Cum Cost:	\$ 2,430,197.00
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Activity:

Set Damondback flow-thru frac plug @ 12,235'. Perforated Devonian @ 12,195', 12,115' and 12,035' with 19 shots.

Pressure tested lines to 9800 psi. Drop frac plug ball ahead of acid.
Pumped Stage 14 with 3990 gallons of 15% HCl, 135,198 gallons cross-linked gel, 144,869 lbs 20/40 RC sand at 60 bpm. Set Damondback flow-thru frac plug @ 11,995'. Perforated Devonian @ 11,955', 11,875' and 11,795' with 19 shots.

Pressure tested lines to 9800 psi. Drop frac plug ball ahead of acid.
Pumped Stage 15 with 3990 gallons of 15% HCl, 162,036 gallons cross-linked gel, 142,072 lbs 20/40 RC sand at 60 bpm. Set flow-thru frac plug @ 11,762'. Perforate Devonian @ 11,720', 11,635' and 11,555' with 19 shots. SDFN. **Delayed start due to frozen lines and equipment.
Temperature - 28°.

Expense Breakdown:

Bits	
BOP/Rentals	
Cementing	
Coil Unit	
Flowback/Tracers	\$ 8,460.00
Forklift	
Hot Oilier	
Kill Truck	
PKR Service	
Pumping Unit	
Reverse unit	
Rig/Crane	\$ 15,353.00
Rods	
Roustabout	
Stimulation	\$ 241,200.00
Supervision	\$ 2,400.00
Tbg Testing	
Tech. Super.	
Trucking	
Tubing	
Vacuum Trucks	
Well Equip.	
Wellhead	\$ 3,000.00
Wireline Service	
WO Fluids/Water	\$ 4,600.00
Sfc Equipment	
Workstring	
LD Machine	
Perforating	\$ 10,353.00
Frac Plugs	\$ 6,210.00
Pressure Control	\$ 4,420.00
DAILY TOTAL	\$ 295,996.00

Total Load (bbls): _____
Load to Recover: _____
Rig Supervisor: Jody Linthicum

Swab (hrs): _____
Daily Recovery (bbls) _____
Total Recover (bbls): _____
BO: _____

Daily Completion - Workover Report

Well Name:	University FV #2H - Greystone Oil & Gas	Date:	1/22/15
Field:	Emma - Devonian	Safety Mtg:	Yes
AFE No:	Dev 10-100	AFE Amount:	
Purpose:	Original Completion of Well		
Rig Contractor:		Operator:	
Present Operation:	Pump Stages #11 through #13		
Comp Days:		Workover Days:	
Original PBTD:		New PBTD:	
Orig. Open Perfs:		Testing Days:	
New Perfs:		BOPD:	
		BWPD:	
		MCFPD:	
Daily Costs:	\$ 429,370.00	Prior Cum Cost:	\$ 1,704,831.00

Cum Cost:	\$ 2,134,201.00
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Activity:

Pressure tested lines to 9800 psi. Drop frac plug ball ahead of acid. Pumped Stage 11 with 3990 gallons of 15% HCl, 184,044 gallons cross-linked gel, 146,810 lbs 20/40 resin coated sand at 60 bpm. NOTE: Lost gelling blender at the end of the spacer pad pump-down. SD 3 hours for repairs. Had to re-establish frac initiation, requiring 800 bbls additional cross-link gel. Set Damondback flow-thru frac plug @ 12,715'. Perforated Devonian @ 12,675', 12,595' and 12,515' with 19 shots.

Pressure tested lines to 9800 psi. Drop frac plug ball ahead of acid. Pumped Stage 12 with 3990 gallons of 15% HCl, 135,198 gallons cross-linked gel, 144,869 lbs 20/40 RC sand at 60 bpm. Set Damondback flow-thru frac plug @ 12,481'. Perforated Devonian @ 12,438', 12,355' and 12,275' with 19 shots.

Pressure tested lines to 9800 psi. Drop frac plug ball ahead of acid. Pumped Stage 13 with 3990 gallons of 15% HCl, 117,936 gallons cross-linked gel, 143,032 lbs 20/40 RC sand at 60 bpm. SDFN. Began snowing - 28°.

Expense Breakdown:

Bits	
BOP/Rentals	
Cementing	
Coil Unit	
Flowback/Tracers	\$ 12,700.00
Forklift	
Hot Oilier	
Kill Truck	
PKR Service	
Pumping Unit	
Reverse unit	
Rig/Crane	\$ 13,430.00
Rods	
Roustabout	
Stimulation	\$ 361,800.00
Supervision	\$ 2,400.00
Tbg Testing	
Tech. Super.	
Trucking	
Tubing	
Vacuum Trucks	
Well Equip.	
Wellhead	\$ 3,000.00
Wireline Service	
WO Fluids/Water	\$ 6,775.00
Sfc Equipment	
Workstring	
LD Machine	
Perforating	\$ 15,530.00
Frac Plugs	\$ 9,315.00
Pressure Control	\$ 4,420.00
DAILY TOTAL	\$ 429,370.00

Total Load (bbls): _____
Load to Recover: _____
Rig Supervisor: Jody Linthicum

Swab (hrs): _____
Daily Recovery (bbls) _____
Total Recover (bbls): _____
BO: _____

Daily Completion - Workover Report

Well Name:	University FV #2H - Greystone Oil & Gas	Date:	1/21/15
Field:	Emma - Devonian	Safety Mtg:	Yes
AFE No:	Dev 10-100	AFE Amount:	
Purpose:	Original Completion of Well		
Rig Contractor:		Operator:	
Present Operation:	Pump Stages #7 through #10		
Comp Days:		Workover Days:	
Original PBTD:		New PBTD:	
Orig. Open Perfs:			
New Perfs:	13,635', 13,555', 13,475' & 13,395', 13,315', 13,235'		
	13,160', 13,075', 12,995' & 12,915', 12,835', 12,755'		
Daily Costs:	\$ 567,080.00	Prior Cum Cost:	\$ 1,137,751.00

Cum Cost:	\$ 1,704,831.00
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Activity:

Pressure tested lines to 9450 psi. Drop frac plug ball ahead of acid. Pumped Stage 7 with 3990 gallons of 15% HCl, 140,910 gallons cross-linked gel, 141,175 lbs 20/40 resin coated sand at 60 bpm. Set Schlumberger Diamondback flow-thru frac plug @ 13,675'. Perforated Devonian @ 13,635', 13,555', and 13,475' with 19 shots.

Pressure tested lines to 9500 psi. Drop frac plug ball ahead of acid. Pumped Stage 8 with 3990 gallons of 15% HCl, 132,090 gallons cross-linked gel, 142,090 lbs of 20/40 RC sand at 60 bpm. Set flow-thru frac plug @ 13,435'. Perforated Devonian @ 13,395', 13,315' and 13,235' with 19 shots.

Pressure tested lines to 9500 psi. Drop frac ball ahead of acid. Pumped Stage 9 with 3990 gallons of 15% HCl, 137,088 gallons cross-linked gel, 140,358 lbs 20/40 RC sand at 60 bpm. Set flow-thru frac plug @ 13,202'. Perforated Devonian @ 13,160', 13,075' and 12,995' with 19 shots.

Pressure tested lines to 9500 psi. Drop frac ball ahead of acid. Pumped Stage 10 with 3990 gallons of 15% HCl, 148,008 gallons cross-linked gel, 123,039 lbs 20/40 RC sand @ 60 bpm. Set flow-thru frac plug @ 12,955'. Perforated Devonian @ 12,915', 12,835' and 12,755' with 19 shots. RDFN.

Expense Breakdown:

Bits	
BOP/Rentals	
Cementing	
Coil Unit	
Flowback/Tracers	\$ 16,920.00
Forklift	
Hot Oilier	
Kill Truck	
PKR Service	
Pumping Unit	
Reverse unit	
Rig/Crane	\$ 15,180.00
Rods	
Roustabout	
Stimulation	\$ 483,000.00
Supervision	\$ 2,400.00
Tbg Testing	
Tech. Super.	
Trucking	
Tubing	
Vacuum Trucks	
Well Equip.	
Wellhead	\$ 3,000.00
Wireline Service	
WO Fluids/Water	\$ 8,650.00
Sfc Equipment	
Workstring	
LD Machine	
Perforating	\$ 20,710.00
Frac Plugs	\$ 12,420.00
Pressure Control	\$ 4,800.00
DAILY TOTAL	\$ 567,080.00

Total Load (bbls): _____
Load to Recover: _____
Rig Supervisor: Jody Linthicum

Swab (hrs): _____
Daily Recovery (bbls) _____
Total Recover (bbls): _____
BO: _____

Daily Completion - Workover Report

Well Name:	University FV #2H - Greystone Oil & Gas	Date:	1/20/15
Field:	Emma - Devonian	Safety Mtg:	Yes
AFE No:	Dev 10-100	AFE Amount:	
Purpose:	Original Completion of Well		
Rig Contractor:		Operator:	
Present Operation:	Pump Stages #3 through #6		
Comp Days:		Workover Days:	
Original PBTD:		New PBTD:	
Orig. Open Perfs:			
New Perfs:	14,598', 14,515', 14,435' & 14,355', 14,275', 14,195'		
	14,115', 14,035', 13,962' & 13,878', 13,795', 13,715'		
Daily Costs:	\$ 567,080.00	Prior Cum Cost:	\$ 570,671.00

Cum Cost:	\$ 1,137,751.00
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Activity:

Pressure tested lines to 9500 psi. Drop frac plug ball ahead of acid. Pumped Stage 3 with 3994 gallons of 15% HCl, 150,486 gallons cross-linked gel, 142,698 lbs 20/40 resin coated sand at 60 bpm. Set Schlumberger Diamondback flow-thru frac plug @ 14,640'. Perforated Devonian @ 14,598', 14,515' and 14,435' with 19 shots.

Pressure tested lines to 9500 psi. Drop frac plug ball ahead of acid. Pumped Stage 4 with 3990 gallons of 15% HCl, 142,968 gallons cross-linked gel, 118,394 lbs of 20/40 RC sand at 55 bpm. Set flow-thru frac plug @ 14,395'. Perforated Devonian @ 14,355', 14,275' and 14,195' with 19 shots.

Pressure tested lines to 9500 psi. Drop frac ball ahead of acid. Pumped Stage 5 with 3990 gallons of 15% HCl, 143,598 gallons cross-linked gel, 140,720 lbs 20/40 RC sand at 60 bpm. Set flow-thru frac plug @ 14,155'. Perforated Devonian @ 14,115', 14,035' and 13,962' with 19 shots.

Pressure tested lines to 9500 psi. Drop frac ball ahead of acid. Pumped Stage 6 with 3990 gallons of 15% HCl, 144,438 gallons cross-linked gel, 141,255 lbs 20/40 RC sand @ 60 bpm. Set flow-thru frac plug @ 13,920'. Perforated Devonian @ 13,878', 13,795' and 13,715' with 19 shots. RDFN.

Expense Breakdown:

Bits	
BOP/Rentals	
Cementing	
Coil Unit	
Flowback/Tracers	\$ 16,920.00
Forklift	
Hot Oilier	
Kill Truck	
PKR Service	
Pumping Unit	
Reverse unit	
Rig/Crane	\$ 14,830.00
Rods	
Roustabout	
Stimulation	\$ 483,000.00
Supervision	\$ 2,400.00
Tbg Testing	
Tech. Super.	
Trucking	
Tubing	
Vacuum Trucks	
Well Equip.	
Wellhead	\$ 3,000.00
Wireline Service	
WO Fluids/Water	\$ 9,000.00
Sfc Equipment	
Workstring	
LD Machine	
Perforating	\$ 20,710.00
Frac Plugs	\$ 12,420.00
Pressure Control	\$ 4,800.00
DAILY TOTAL	\$ 567,080.00

Total Load (bbls): _____

Load to Recover: _____

Rig Supervisor: Jody Linthicum

Swab (hrs): _____

Daily Recovery (bbls) _____

Total Recover (bbls): _____

BO: _____

Daily Completion - Workover Report

Well Name:	University FV #2H - Greystone Oil & Gas	Date:	1/19/15
Field:	Emma - Devonian	Safety Mtg:	Yes
AFE No:	Dev 10-100	AFE Amount:	
Purpose:	Original Completion of Well		
Rig Contractor:		Operator:	
Present Operation:	Pump Stages #1 & #2		
Comp Days:		Workover Days:	
Original PBTD:		New PBTD:	
Orig. Open Perfs:		Testing Days:	
New Perfs:	15,075', 14,995', 14,915' & 14,835', 14,755', 14,682'		
BOPD:		BWPD:	
MCFPD:		MCFPD:	
Daily Costs:	\$ 285,165.00	Prior Cum Cost:	\$ 285,506.00
		Cum Cost:	\$ 570,671.00

Activity:

Pressure tested lines to 9586 psi. Pressured 4 ½" – 7" annulus to 2500 psi. Pumped Stage 1 with 4103 gallons 15% HCl, 194,215 gallons cross-linked gel, 140,469 lbs 20/40 RC sand at 61 bpm. Set Schlumberger Diamondback flow-thru plug @ 15,115'. Perforated Devonian @ 15,075', 14,995' and 14,915' w/ 19 shots (.35" holes). Pressure tested lines. Drop frac plug ball ahead of acid. Pumped Stage 2 with 3830 gallons 15% HCl, 161,379 gallons cross-linked gel, 142,579 lbs 20/40 RC sand at 60 bpm. Set frac plug at 14,875'. Perforated @ 14,835', 14,755' and 14,682'. RDFN.

Expense Breakdown:

Bits	
BOP/Rentals	
Cementing	
Coil Unit	
Flowback/Tracers	\$ 8,460.00
Forklift	
Hot Oilier	
Kill Truck	
PKR Service	
Pumping Unit	
Reverse unit	
Rig	
Rods	
Roustabout	
Stimulation	\$ 245,000.00
Supervision	\$ 2,400.00
Tbg Testing	
Tech. Super.	
Trucking	
Tubing	
Vacuum Trucks	
Well Equip.	
Wellhead	\$ 3,000.00
Wireline Service	
WO Fluids/Water	\$ 5,540.00
Sfc Equipment	
Workstring	
LD Machine	
Perforating	\$ 10,355.00
Frac Plugs	\$ 6,210.00
Pressure Control	\$ 4,200.00
DAILY TOTAL	\$ 285,165.00

Total Load (bbls): _____
Load to Recover: _____
Rig Supervisor: Jody Linthicum

Swab (hrs): _____
Daily Recovery (bbls) _____
Total Recover (bbls): _____
BO: _____

Daily Completion - Workover Report

Well Name:	University FV #2H - Greystone Oil & Gas	Date:	1/18/15
Field:	Emma - Devonian	Safety Mtg:	Yes
AFE No:	Dev 10-100	AFE Amount:	
Purpose:	Original Completion of Well		
Rig Contractor:		Operator:	
Present Operation:	MIRU Frac Equipment		
Comp Days:		Workover Days:	
Original PBTD:	15,528'	New PBTD:	
Orig. Open Perfs:			
New Perfs:	15,475', 15,315', 15,154'		
Daily Costs:	\$ 11,700.00	Prior Cum Cost:	\$ 273,806.00

Cum Cost:	\$ 285,506.00
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Activity:

MIRU Baker pump trucks and Supreme pressure control.

Expense Breakdown:

Bits	
BOP/Rentals	
Cementing	
Coil Unit	
Flowback	
Forklift	
Hot Oilier	
Kill Truck	
PKR Service	
Pumping Unit	
Reverse unit	
Rig	
Rods	
Roustabout	
Stimulation	
Supervision	\$ 1,200.00
Tbg Testing	
Tech. Super.	
Trucking	
Tubing	
Vacuum Trucks	
Well Equip.	
Wellhead	\$ 3,000.00
Wireline Service	
WO Fluids	
Sfc Equipment	
Workstring	
LD Machine	
MIRU	\$ 7,500.00
DAILY TOTAL	\$ 11,700.00

Total Load (bbls): _____

Load to Recover: _____

Rig Supervisor: Jody Linthicum

Swab (hrs): _____

Daily Recovery (bbls) _____

Total Recover (bbls): _____

BO: _____

Daily Completion - Workover Report

Well Name:	University FV #2H - Greystone Oil & Gas	Date:	12/30/15
Field:	Emma - Devonian	Safety Mtg:	Yes
AFE No:	Dev 10-100	AFE Amount:	
Purpose:	Original Completion of Well		
Rig Contractor:	Basic Energy Services	Operator:	Joe
Present Operation:	Standby		
Comp Days:		Workover Days:	
Original PBTD:	15,528'	New PBTD:	
Orig. Open Perfs:			
New Perfs:	15,475', 15,315', 15,154'		
Daily Costs:	\$ 1,500.00	Prior Cum Cost:	\$ 272,306.00
		Cum Cost:	\$ 273,806.00

Activity:

Received call from Mr. Bob Dimit that frac is scheduled for 01/05/2015. Order out frac stack, set up wireline/CBP's, pressure control/pump-down/crane, flowback and essential surface materials. Equipment set to move in 01/02/2015, ahead of frac crew. CTU drill-out equipment tentatively set for 01/12/2015.

Expense Breakdown:

Bits	
BOP/Rentals	
Cementing	
Coil Unit	
Flowback	
Forklift	
Hot Oilier	
Kill Truck	
PKR Service	
Pumping Unit	
Reverse unit	
Rig	
Rods	
Roustabout	
Stimulation	
Supervision	\$ 1,500.00
Tbg Testing	
Tech. Super.	
Trucking	
Tubing	
Vacuum Trucks	
Well Equip.	
Wellhead	
Wireline Service	
WO Fluids	
Sfc Equipment	
Workstring	
LD Machine	
Casing Crew	
DAILY TOTAL	\$ 1,500.00

Total Load (bbls):	Swab (hrs):
Load to Recover:	Daily Recovery (bbls)
Rig Supervisor: Kenneth Putty	Total Recover (bbls):
	BO:

Daily Completion - Workover Report

Well Name:	University FV #2H - Greystone Oil & Gas	Date:	12/18/14
Field:	Emma - Devonian	Safety Mtg:	Yes
AFE No:	Dev 10-100	AFE Amount:	
Purpose:	Original Completion of Well		
Rig Contractor:	Basic Energy Services	Operator:	Joe
Present Operation:	Standby		
Comp Days:		Workover Days:	
Original PBTD:		New PBTD:	
Orig. Open Perfs:			
New Perfs:	15,475', 15,315', 15,154'		
Daily Costs:	\$ 51,400.00	Prior Cum Cost:	\$ 220,906.00

Cum Cost:	\$ 272,306.00
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Activity:

Crew AOL, PJSM. Open and check well – 0 psi. Contractors and equipment on location. Start unloading and setting 4 ½" P110 casing onto pipe racks (234 joints total). RU casing crew, lay down machine, torque and chart equipment. Baker Oil Tools on location w/ seal assembly for PBR. Prep to PU casing; tally casing and BHA. Start RIH with casing and seal assembly. In hole with casing, sting into PBR; RU to pump truck to test, took 23 bbls to load. Test to 1500 psi – test OK. Mark pipe for spacing. Space well out and land hanger. RD casing crew and lay down machine. Load and test to 1500 psi – test OK. Wellhead Tech on location for wellhead equipment. Install wellhead and test. Install frac valve. RD well Tech, leave well shut in. SDFN.

4 ½" 11.6# P110 LTC w/ hanger	53.65'	53.65'	
3 – 4 ½" 11.6# P110 pup joints	18.18'	71.83'	
229 – 4 ½" P110	9857.04'	9928.87'	
5' x 4 ½" 11.6# P110 pup jt	5.70'	9934.57'	
6' x 4 ½" 11.6# P110 pup jt	6.07'	9940.64'	
4 ½" X-Over	1.38'	9942.02'	
Seal assembly w/ mule shoe guide	0.65'	9942.67'	
Landed w/ 75,000 psi compression			

Expense Breakdown:

Bits	
BOP/Rentals	\$ 500.00
Cementing	
Coil Unit	
Flowback	
Forklift	\$ 1,200.00
Hot Oilier	
Kill Truck	\$ 600.00
PKR Service	\$ 15,000.00
Pumping Unit	
Reverse unit	
Rig	\$ 5,400.00
Rods	
Roustabout	
Stimulation	
Supervision	\$ 1,500.00
Tbg Testing	
Tech. Super.	
Trucking	\$ 3,000.00
Tubing	
Vacuum Trucks	\$ 1,200.00
Well Equip.	
Wellhead	\$ 3,000.00
Wireline Service	
WO Fluids	
Sfc Equipment	
Workstring	
LD Machine	\$ 2,000.00
Casing Crew	\$ 18,000.00
DAILY TOTAL	\$ 51,400.00

Total Load (bbls): _____
Load to Recover: _____
Rig Supervisor: Kenneth Putty

Swab (hrs): _____
Daily Recovery (bbls) _____
Total Recover (bbls): _____
BO: _____

Daily Completion - Workover Report

Well Name:	University FV #2H - Greystone Oil & Gas	Date:	12/17/14
Field:	Emma - Devonian	Safety Mtg:	Yes
AFE No:	Dev 10-100	AFE Amount:	
Purpose:	Original Completion of Well		
Rig Contractor:	Basic Energy Services	Operator:	Joe
Present Operation:	Standby		
Comp Days:		Workover Days:	
Original PBTD:		New PBTD:	
Orig. Open Perfs:			
New Perfs:	15,475', 15,315', 15,154'		
Daily Costs:	\$ 6,000.00	Prior Cum Cost:	\$ 214,906.00
		Cum Cost:	\$ 220,906.00

Activity:
Standby for Casing

Expense Breakdown:	
Bits	
BOP/Rentals	\$ 500.00
Cementing	
Coil Unit	
Flowback	
Forklift	
Hot Oilier	
Kill Truck	
PKR Service	\$ 2,000.00
Pumping Unit	
Reverse unit	
Rig	\$ 2,500.00
Rods	
Roustabout	
Stimulation	
Supervision	
Tbg Testing	
Tech. Super.	
Trucking	
Tubing	
Vacuum Trucks	
Well Equip.	
Wellhead	
Wireline Service	
WO Fluids	
Sfc Equipment	
Workstring	
LD Machine	\$ 1,000.00
DAILY TOTAL	\$ 6,000.00

Total Load (bbls):	Swab (hrs):
Load to Recover:	Daily Recovery (bbls)
Rig Supervisor: Kenneth Putty	Total Recover (bbls):
	BO:

Daily Completion - Workover Report

Well Name:	University FV #2H - Greystone Oil & Gas	Date:	12/16/14
Field:	Emma - Devonian	Safety Mtg:	Yes
AFE No:	Dev 10-100	AFE Amount:	
Purpose:	Original Completion of Well		
Rig Contractor:	Basic Energy Services	Operator:	Joe
Present Operation:	Laying down tubing		
Comp Days:		Workover Days:	
Original PBTD:		New PBTD:	
Orig. Open Perfs:			
New Perfs:	15,475', 15,315', 15,154'		
Daily Costs:	\$ 13,600.00	Prior Cum Cost:	\$ 201,306.00

Cum Cost:	\$ 214,906.00
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Activity:

Crew AOL, PJSM. Open and check well pressures – 0 psi; well on vacuum. Continue to POOH w/ tubing and pressure data that was run in hole, laying down 2 3/8" workstring. Total joints LD = 291, total workstring = 341. BHA was plugged w/ iron sulfide and scale; string wet while POOH. Vacuum truck on location to keep fluid off ground. Change out tbg equipment and prep to PU 4 1/2" casing. Change out rams in BOP. Contractor on location to PU workstring and set in extra set of pipe racks for casing. Secure well and SDFN. Stand by for casing to AOL. Well equipment w/ hanger for casing delivered to location.

Expense Breakdown:

Bits	
BOP/Rentals	\$ 500.00
Cementing	
Coil Unit	
Flowback	
Forklift	\$ 1,000.00
Hot Oilier	
Kill Truck	
PKR Service	
Pumping Unit	
Reverse unit	
Rig	\$ 3,800.00
Rods	
Roustabout	
Stimulation	
Supervision	\$ 1,500.00
Tbg Testing	
Tech. Super.	
Trucking	\$ 800.00
Tubing	
Vacuum Trucks	\$ 500.00
Well Equip.	
Wellhead	\$ 3,000.00
Wireline Service	
WO Fluids	
Sfc Equipment	
Workstring	\$ 800.00
LD Machine	\$ 1,700.00
DAILY TOTAL	\$ 13,600.00

Total Load (bbls): _____
Load to Recover: _____
Rig Supervisor: Kenneth Putty

Swab (hrs): _____
Daily Recovery (bbls) _____
Total Recover (bbls): _____
BO: _____

Daily Completion - Workover Report

Well Name:	University FV #2H - Greystone Oil & Gas	Date:	12/15/14
Field:	Emma - Devonian	Safety Mtg:	Yes
AFE No:	Dev 10-100	AFE Amount:	
Purpose:	Original Completion of Well		
Rig Contractor:	Basic Energy Services	Operator:	Joe
Present Operation:	MIRU / Pull tbg	Pusher:	
Comp Days:		Workover Days:	
Original PBTD:		New PBTD:	
Orig. Open Perfs:		Testing Days:	
New Perfs:	15,475', 15,315', 15,154'	BOPD:	
		BWPD:	
		MCFPD:	
Daily Costs:	\$ 5,300.00	Prior Cum Cost:	\$ 196,006.00
		Cum Cost:	\$ 201,306.00

Activity:

Road rig in to location, PJSM. Spot rig and rig unit up. Check pressure on well – 0 psi. Casing on vacuum. ND BOP, ND frac valve to lower working conditions. NUBOP, prep to lay down tubing. Lay down machine on location, spot equipment. Install sub into tubing hanger and pull out of wellhead. Start pulling and laying down 2 3/8" tubing. LD total of 50 jts. Secure well and shut down for day. Will continue LD tbg in the AM.

Expense Breakdown:

Bits	
BOP/Rentals	\$ 500.00
Cementing	
Coil Unit	
Flowback	
Forklift	
Hot Oilier	
Kill Truck	
PKR Service	
Pumping Unit	
Reverse unit	
Rig	\$ 2,500.00
Rods	
Roustabout	
Stimulation	
Supervision	\$ 1,500.00
Tbg Testing	
Tech. Super.	
Trucking	
Tubing	
Vacuum Trucks	
Well Equip.	
Wellhead	
Wireline Service	
WO Fluids	
Sfc Equipment	
Workstring/Day	\$ 800.00
DAILY TOTAL	\$ 5,300.00

Total Load (bbls):	Swab (hrs):
Load to Recover:	Daily Recovery (bbls)
Rig Supervisor: Kenneth Putty	Total Recover (bbls):
	BO:

Daily Completion - Workover Report

Well Name:	University FV #2H - Greystone Oil & Gas	Date:	12/10/14
Field:	Emma - Devonian	Safety Mtg:	Yes
AFE No:	Dev 10-100	AFE Amount:	
Purpose:	Original Completion of Well		
Rig Contractor:	Basic Energy Services	Operator:	Santana
Present Operation:		Pusher:	Robert
Comp Days:		Workover Days:	
Original PBTD:	15,528'	New PBTD:	
Orig. Open Perfs:		Testing Days:	
New Perfs:	15,475', 15,315', 15,154'	BOPD:	
		BWPD:	
		MCFPD:	
Daily Costs:	\$ 33,703.00	Prior Cum Cost:	\$ 162,303.00
		Cum Cost:	\$ 196,006.00

Activity:

7:30 am – Crew on location and continue PU tbg. Land tbg w/ hanger @ 10,405.5'. Shut in master valve, NU surface recorder and RU pump for DFIT.

Pump 22 bbls to load, rate to 10 bpm @ 4200 psi / 31 bbls in 10 bpm @ 2230 psi / 71 bbls in 10 bpm @ 2220 psi / ISIP – 1000 psi, 5 minutes – 620 psi, 10 minutes – 350 psi, 15 minutes – 90 psi

Release pump, rig and leave BOP/racks on location to pull gauges on 12/15/2014.

Expense Breakdown:

Bits	
BOP/Rentals	\$ 500.00
Cementing	
Coil Unit	\$ 21,342.00
Flowback	
Forklift	
Hot Oilier	
Kill Truck	
PKR Service	
Pumping Unit	
Reverse unit	
Rig	\$ 2,400.00
Rods	
Roustabout	
Stimulation	
Supervision	\$ 1,500.00
Tbg Testing	
Tech. Super.	
Trucking	
Tubing	
Vacuum Trucks	
Well Equip.	
Wellhead	
Wireline Service	
WO Fluids	
Sfc Equipment	
Workstring	\$ 749.00
Pumps	\$ 7,212.00
DAILY TOTAL	\$ 33,703.00

Total Load (bbls): _____
Load to Recover: _____
Rig Supervisor: Jody Linthicum

Swab (hrs): _____
Daily Recovery (bbls) _____
Total Recover (bbls): _____
BO: _____

Daily Completion - Workover Report

Well Name:	University FV #2H - Greystone Oil & Gas	Date:	12/9/14
Field:	Emma - Devonian	Safety Mtg:	Yes
AFE No:	Dev 10-100	AFE Amount:	
Purpose:	Original Completion of Well		
Rig Contractor:	Basic Energy Services	Operator:	Santana
Present Operation:	Rig Up	Pusher:	Robert
Comp Days:		Workover Days:	
Original PBTD:	15,528'	New PBTD:	
Orig. Open Perfs:		Testing Days:	
New Perfs:	15,475', 15,315', 15,154'	BOPD:	
		BWPD:	
		MCFPD:	
Daily Costs:	\$ 16,044.00	Prior Cum Cost:	\$ 146,259.00
		Cum Cost:	\$ 162,303.00

Activity:

7:00am – Set racks, mats; rack 341 jts 2 3/8" workstring and RU. NU BOP, RU pick-up machine, pick-up gauges and tally in. TIH to 8045' and will resume in the AM. SISDFTD 5:00pm.

Expense Breakdown:

Bits	
BOP/Rentals	\$ 1,500.00
Cementing	
Coil Unit	
Flowback	
Forklift	\$ 750.00
Hot Oilier	
Kill Truck	
PKR Service	
Pumping Unit	
Reverse unit	
Rig	\$ 4,200.00
Rods	
Roustabout	
Stimulation	
Supervision	\$ 1,500.00
Tbg Testing	
Tech. Super.	
Trucking	\$ 1,500.00
Tubing	
Vacuum Trucks	
Well Equip.	
Wellhead	\$ 2,448.00
Wireline Service	
WO Fluids	
Sfc Equipment	
Workstring	\$ 749.00
PU Machine	\$ 1,800.00
Pressure Gauges	\$ 1,597.00
DAILY TOTAL	\$ 16,044.00

Total Load (bbls): _____
Load to Recover: _____
Rig Supervisor: Jody Linthicum

Swab (hrs): _____
Daily Recovery (bbls) _____
Total Recover (bbls): _____
BO: _____

Daily Completion - Workover Report

Well Name:	University FV #2H - Greystone Oil & Gas	Date:	12/8/14
Field:	Emma - Devonian	Safety Mtg:	Yes
AFE No:	Dev 10-100	AFE Amount:	
Purpose:	Original Completion of Well		
Rig Contractor:	Panther Well Services	Operator:	
Present Operation:			
Comp Days:		Workover Days:	
Original PBTD:	15,528'	New PBTD:	
Orig. Open Perfs:			
New Perfs:	15,475', 15,315', 15,154'		
Daily Costs:	\$ 130,959.00	Prior Cum Cost:	\$ 15,300.00

Cum Cost:	\$ 146,259.00
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Activity:

7:00am – Crews AOL and RIH w/ coil tubing unit. Stack out @ 14,805' and circulate out cut-oil based mud. Continue working pipe and sending sweeps; make it to 15,260' and stack out. Send sweeps w/ pipe on pipe. POOH to 14,200' and make another attempt to reach TD. Move in pulling unit, light towers and order all equipment needed for DFIT. Continue 1000' short trips, make to 15,405', 15,428' and 15,471' w/ KB correction @ 15,488'. This leaves bit 42' short of csg tally; PBTD @ 15,528'. Discuss w/ Mr. Dimit and elect to spot acid and move on to perforating. Send 10 bbls sweep, 20 bbls spacer and 71 bbls 15% acetic. Acid 15 bbls ahead and POOH, filling lateral w/ acetic. POOH w/ motor, ND/LD tools, PU TCP guns, RIH and tag PBTD @ 15,520'. Shoot 7 holes/ 6spf/ 60°/ 0.35EHD (entry hole diameter) @ 15,475'; 6 holes/ 6spf/ 60°/ 0.35EHD @ 15,315'; 6 holes/ 6spf/ 60°/ 0.35EHD @ 15,154'. Pressure dropped from 2900 psi to 2045 psi. Will POOH to 9500' to establish injection rate/psi. POOH to 9500', 0 psi. Bring rate to 5 bpm @ 4650 psi, pump 20 bbls, SD and POOH w/ coil. POOH w/coil, RD and move off 7:00am. Coil company left pump on location to use for start of DFIT.

Expense Breakdown:

Bits	\$ 2,800.00
BOP/Rentals	\$ 1,000.00
Cementing	
Coil Unit	\$ 65,000.00
Flowback	
Forklift	
Hot Oilier	
Kill Truck	
PKR Service	
Pumping Unit	
Reverse unit	
Rig	\$ 1,200.00
Rods	
Roustabout	
Stimulation	
Supervision - 24hrs	\$ 1,800.00
Tbg Testing	
Tech. Super.	
Trucking	
Tubing	
Vacuum Trucks	\$ 1,900.00
Well Equip.	
Wellhead	
Wireline Service	
WO Fluids	
Sfc Equipment	
Workstring/Day	
Acid	\$ 11,266.00
Motor	\$ 31,800.00
TCP	\$ 14,193.00
DAILY TOTAL	\$ 130,959.00

Total Load (bbls): _____
Load to Recover: _____
Rig Supervisor: Jody Linthicum

Swab (hrs): _____
Daily Recovery (bbls) _____
Total Recover (bbls): _____
BO: _____

Daily Completion - Workover Report

Well Name:	University FV #2H - Greystone Oil & Gas	Date:	12/7/14
Field:	Emma - Devonian	Safety Mtg:	Yes
AFE No:	Dev 10-100	AFE Amount:	
Purpose:	Original Completion of Well		
Rig Contractor:	Panther	Operator:	
Present Operation:	TOE PREP		
Comp Days:		Workover Days:	
Original PBTD:		New PBTD:	
Orig. Open Perfs:			
New Perfs:		5176' - 6544'	
Daily Costs:	\$ 15,300.00	Prior Cum Cost:	\$ -

Cum Cost:	\$ 15,300.00
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Activity:
 Move in coil tubing unit and man lift. Set safety anchors, NU master valve and RU. PU motor w/ 3 7/8" bit; NU stack, test and will RIH in the AM. Order 3000 gallons 15% acetic and TCP guns for the AM.

Expense Breakdown:	
Bits	
BOP/Rentals	\$ 500.00
Cementing	
Coil Unit	\$ 8,000.00
Flowback	
Forklift	
Hot Oilier	
Kill Truck	
PKR Service	
Pumping Unit	
Reverse unit	
Rig	
Rods	
Roustabout	
Stimulation	
Supervision	\$ 1,500.00
Tbg Testing	
Tech. Super.	
Trucking	\$ 1,000.00
Tubing	
Vacuum Trucks	
Well Equip.	
Wellhead	\$ 2,500.00
Wireline Service	
WO Fluids	
Workstring	
Rentals Surface	
Safety Anchors	\$ 1,800.00
DAILY TOTAL	\$ 15,300.00

Total Load (bbls):	Swab (hrs):
Load to Recover:	Daily Recovery (bbls):
Rig Supervisor: Jody Linthicum	Total Recover (bbls):
	BO:

Stage #	Formation Name	Perfs - Each Interval / Display in feet	Plug Set depth / Display depth in feet	Openin g WHP (psi)	Break Down (psi)	ISIP (psi)	15 Min. SIP (psi)	Max Press (psi)	Avg. Press (psi)	Max Rate (bpm)	Avg. Rate (bpm)	Break Rate (bpm)	FG psi/ft	Total Acid (bbls)	Total Acid (gallons - autocalc)	fluid type	fluid type	fluid type	fluid type	Total Proppant (lbs - autocalc)	Proppant Name	Proppant Name	Propp · Concn · Min (ppg)	Propp · Concn · Max (ppg)	TOTAL Load to Recover (bbls)
																10# Linear	10# Linear	20# Xlinked	20# Xlinked		20/40 Ottowa	20/40 Super LC			
																Show amount used in barrels	Gallons - Autocalculated	Show amount used in barrels	Gallons - Autocalculated		Show amount used in lbs	Show amount used in lbs			
1															0		0		0	-					676
2															0		0		0	-					608
3															0		0		0	-					582
4															0		0		0	-					523
5															0		0		0	-					320
6															0		0		0	-					
7															0		0		0	-					
8															0		0		0	-					
9															0		0		0	-					
10															0		0		0	-					
11															0		0		0	-					
12															0		0		0	-					
13															0		0		0	-					
14															0		0		0	-					

15															0		0		0	-					
16															0		0		0	-					
17															0		0		0	-					
18															0		0		0	-					
19															0		0		0	-					
20															0		0		0	-					
21															0		0		0	-					
22															0		0		0	-					
																					0	0	0		2,709

Well Service Report

Fail Date		AFE #:	Dev 10-100
Start Date	12/7/2014	AFE \$:	
End Date		Foreman:	Jody Linthicum
Service Co.	Panther		Kenneth Putty

Use Drop Down:

WS Reason	Orig Completion
Type of Failure	
Cause of Failure 1	
Cause of Failure 2	
Failed Item	
Failed Part	

Type In Data:

Size/Grade	
Brand	
Coating	
Area Failed	
Failure Depth	
Description	Original Completion of Well

Company Name: GREYSTONE O & G
Well Name: UNIVERSITY FV 2H
County: ANDREWS
State: TEXAS

Rig Company: BASIC

Single Tubing String and Non-tapered Casing

Select the Tubing and Casing from the list on the Tubing Data Sheet Average Joint Length

Tubing:

O.D. 3.5
I.D. 2.992
Grade: L80
lb/ft. 9.3

Total Number of Joints
(Enter the number of joints)

Total Length of Tubing
not including BHA

Casing:

O.D. 7
I.D. 6.184
Grade: P110
lb/ft. 29

Total Length of Tubing
and includes BHA and K.B.

Bottom-Hole Assembly - (All measurements are in feet.)

K.B.

Bit or Mill:
Nipple 1:
Bit Sub:

ESP
D-sander
Misc:

Misc:
Misc:
Misc:

You must enter four

End of Tubing

EOT - BHA/KB Ten Joint Total

Number	Length (ft.)	Tubing Capacity (bbls)	Tubing Capacity (cu.ft)	Annular Capacity (bbls)	Annular Capacity (cu.ft)	Total Hole Capacity (bbls)	Total Hole Capacity (cu.ft)	Total Length (ft.)	EOT - BHA/KB Ten Joint Total
1	32.91	0.286	1.607	0.831	4.665	1.117	6.272	32.91	-192.91
2	32.95	0.573	3.216	1.663	9.337	2.236	12.552	65.86	-225.86
3	33.00	0.860	4.827	2.496	14.015	3.356	18.842	98.86	-258.86
4	32.90	1.146	6.433	3.327	18.679	4.472	25.112	131.76	-291.76
5	32.95	1.432	8.042	4.159	23.350	5.591	31.392	164.71	-324.71
6	33.00	1.719	9.653	4.992	28.028	6.711	37.681	197.71	-357.71
7	32.97	2.006	11.263	5.824	32.702	7.830	43.965	230.68	-390.68
8	33.00	2.293	12.874	6.657	37.380	8.950	50.255	263.68	-423.68
9	32.93	2.579	14.482	7.489	42.049	10.068	56.531	296.61	-456.61
10	32.90	2.865	16.089	8.320	46.713	11.185	62.801	329.51	-489.51
11	33.00	3.152	17.700	9.153	51.391	12.305	69.091	362.51	-522.51
12	33.03	3.440	19.313	9.987	56.073	13.426	75.386	395.54	-555.54
13	32.95	3.726	20.921	10.819	60.744	14.545	81.666	428.49	-588.49
14	32.90	4.012	22.528	11.649	65.408	15.661	87.936	461.39	-621.39
15	32.87	4.298	24.133	12.479	70.068	16.777	94.201	494.26	-654.26
16	32.90	4.584	25.739	13.310	74.732	17.894	100.471	527.16	-687.16
17	32.90	4.870	27.345	14.140	79.396	19.011	106.742	560.06	-720.06
18	32.90	5.156	28.952	14.971	84.060	20.127	113.012	592.96	-752.96
19	32.90	5.442	30.558	15.802	88.724	21.244	119.282	625.86	-785.86
20	32.88	5.728	32.164	16.632	93.385	22.360	125.549	658.74	-818.74
21	32.97	6.015	33.773	17.464	98.059	23.479	131.833	691.71	-851.71
22	32.92	6.301	35.381	18.296	102.726	24.597	138.107	724.63	-884.63
23	32.95	6.588	36.990	19.127	107.397	25.715	144.387	757.58	-917.58
24	32.95	6.874	38.598	19.959	112.068	26.834	150.667	790.53	-950.53
25	32.97	7.161	40.208	20.792	116.742	27.953	156.951	823.50	-983.50
26	32.95	7.448	41.817	21.624	121.413	29.071	163.230	856.45	-1016.45
27	33.00	7.735	43.428	22.457	126.092	30.192	169.520	889.45	-1049.45
28	32.94	8.021	45.037	23.289	130.761	31.310	175.798	922.39	-1082.39
29	33.00	8.308	46.648	24.122	135.440	32.430	182.087	955.39	-1115.39
30	32.93	8.594	48.256	24.953	140.108	33.548	188.364	988.32	-1148.32
31	32.92	8.881	49.863	25.784	144.775	34.665	194.638	1021.24	-1181.24
32	32.82	9.166	51.465	26.613	149.427	35.779	200.893	1054.06	-1214.06
33	32.87	9.452	53.070	27.443	154.087	36.895	207.158	1086.93	-1246.93
34	32.90	9.738	54.677	28.274	158.751	38.012	213.428	1119.83	-1279.83
35	32.00	10.016	56.239	29.082	163.288	39.098	219.527	1151.83	-1311.83
36	32.95	10.303	57.848	29.913	167.959	40.216	225.807	1184.78	-1344.78
37	32.92	10.589	59.455	30.745	172.626	41.334	232.081	1217.70	-1377.70
38	32.85	10.875	61.059	31.574	177.283	42.449	238.342	1250.55	-1410.55
39	32.90	11.161	62.666	32.405	181.947	43.565	244.612	1283.45	-1443.45
40	32.93	11.447	64.274	33.236	186.615	44.683	250.888	1316.38	-1476.38
41	32.90	11.733	65.880	34.067	191.279	45.800	257.159	1349.28	-1509.28
42	32.92	12.019	67.487	34.898	195.946	46.917	263.433	1382.20	-1542.20
43	32.90	12.306	69.094	35.729	200.610	48.034	269.703	1415.10	-1575.10
44	32.90	12.592	70.700	36.559	205.274	49.151	275.974	1448.00	-1608.00
45	32.85	12.877	72.304	37.389	209.931	50.266	282.235	1480.85	-1640.85
46	32.95	13.164	73.913	38.221	214.602	51.384	288.515	1513.80	-1673.80
47	32.90	13.450	75.519	39.051	219.266	52.501	294.785	1546.70	-1706.70
48	32.95	13.736	77.128	39.883	223.937	53.620	301.065	1579.65	-1739.65
49	32.90	14.023	78.734	40.714	228.601	54.736	307.335	1612.55	-1772.55
50	32.87	14.308	80.339	41.544	233.261	55.852	313.600	1645.42	-1805.42
51	32.83	14.594	81.942	42.373	237.915	56.967	319.857	1678.25	-1838.25
52	32.92	14.880	83.550	43.204	242.582	58.084	326.131	1711.17	-1871.17
53	32.90	15.166	85.156	44.034	247.246	59.201	332.402	1744.07	-1904.07
54	32.95	15.453	86.765	44.866	251.917	60.319	338.682	1777.02	-1937.02
55	32.90	15.739	88.371	45.697	256.581	61.436	344.952	1809.92	-1969.92
56	32.87	16.025	89.976	46.527	261.241	62.552	351.217	1842.79	-2002.79
57	32.95	16.311	91.585	47.359	265.912	63.670	357.497	1875.74	-2035.74
58	32.95	16.598	93.194	48.191	270.583	64.789	363.776	1908.69	-2068.69
59	32.95	16.884	94.802	49.023	275.254	65.907	370.056	1941.64	-2101.64
60	32.97	17.171	96.412	49.855	279.928	67.026	376.340	1974.61	-2134.61
61	32.90	17.457	98.019	50.686	284.592	68.143	382.611	2007.51	-2167.51
62	32.95	17.744	99.627	51.518	289.263	69.261	388.890	2040.46	-2200.46
63	32.95	18.030	101.236	52.350	293.934	70.380	395.170	2073.41	-2233.41
64	32.95	18.317	102.845	53.182	298.605	71.498	401.450	2106.36	-2266.36
65	32.90	18.603	104.451	54.013	303.269	72.615	407.721	2139.26	-2299.26
66	32.95	18.889	106.060	54.844	307.940	73.734	414.001	2172.21	-2332.21
67	32.98	19.176	107.671	55.677	312.616	74.853	420.286	2205.19	-2365.19
68	32.87	19.462	109.275	56.507	317.276	75.969	426.551	2238.06	-2398.06
69	32.90	19.748	110.882	57.337	321.940	77.085	432.821	2270.96	-2430.96
70	32.85	20.034	112.486	58.167	326.597	78.201	439.082	2303.81	-2463.81

71	32.93	20.320	114.094	58.998	331.265	79.318	445.358	2336.74	3293	-2496.74	
72	32.87	20.606	115.698	59.828	335.925	80.434	451.623	2369.61	3287	-2529.61	
73	32.94	20.892	117.307	60.660	340.594	81.552	457.901	2402.55	3294	-2562.55	
74	32.90	21.178	118.913	61.491	345.258	82.669	464.171	2435.45	3290	-2595.45	
75	32.90	21.465	120.520	62.321	349.922	83.786	470.442	2468.35	3290	-2628.35	
76	32.90	21.751	122.126	63.152	354.586	84.902	476.712	2501.25	3290	-2661.25	
77	32.85	22.036	123.730	63.981	359.243	86.018	482.973	2534.10	3285	-2694.10	
78	32.94	22.323	125.338	64.813	363.913	87.136	489.251	2567.04	3294	-2727.04	
79	32.90	22.609	126.945	65.644	368.577	88.252	495.522	2599.94	3290	-2759.94	
80	32.93	22.895	128.552	66.475	373.245	89.370	501.798	2632.87	3293	-2792.87	329.06
81	32.93	23.182	130.160	67.306	377.914	90.488	508.074	2665.80	3293	-2825.80	
82	32.87	23.467	131.765	68.136	382.573	91.604	514.338	2698.67	3287	-2858.67	
83	32.90	23.753	133.372	68.967	387.237	92.720	520.609	2731.57	3290	-2891.57	
84	32.82	24.039	134.974	69.796	391.890	93.834	526.864	2764.39	3282	-2924.39	
85	32.90	24.325	136.580	70.626	396.554	94.951	533.134	2797.29	3290	-2957.29	
86	32.93	24.611	138.188	71.458	401.222	96.069	539.411	2830.22	3293	-2990.22	
87	32.92	24.898	139.796	72.289	405.889	97.186	545.685	2863.14	3292	-3023.14	
88	32.93	25.184	141.403	73.120	410.557	98.304	551.961	2896.07	3293	-3056.07	
89	32.87	25.470	143.008	73.950	415.217	99.420	558.226	2928.94	3287	-3088.94	
90	32.02	25.748	144.572	74.759	419.757	100.507	564.328	2960.96	3202	-3120.96	328.09
91	32.95	26.035	146.181	75.591	424.428	101.625	570.608	2993.91	3295	-3153.91	
92	32.97	26.321	147.790	76.423	429.102	102.744	576.892	3026.88	3297	-3186.88	
93	32.90	26.608	149.397	77.254	433.766	103.861	583.162	3059.78	3290	-3219.78	
94	32.95	26.894	151.006	78.086	438.437	104.980	589.442	3092.73	3295	-3252.73	
95	32.95	27.181	152.614	78.918	443.108	106.098	595.722	3125.68	3295	-3285.68	
96	32.93	27.467	154.222	79.749	447.776	107.216	601.998	3158.61	3293	-3318.61	
97	32.97	27.754	155.832	80.581	452.450	108.335	608.282	3191.58	3297	-3351.58	
98	32.94	28.040	157.440	81.413	457.120	109.453	614.560	3224.52	3294	-3384.52	
99	32.97	28.327	159.050	82.245	461.794	110.572	620.844	3257.49	3297	-3417.49	
100	33.00	28.614	160.661	83.079	466.472	111.692	627.133	3290.49	3300	-3450.49	329.53
101	32.97	28.900	162.271	83.911	471.146	112.812	633.417	3323.46	3297	-3483.46	
102	32.93	29.187	163.879	84.742	475.814	113.929	639.693	3356.39	3293	-3516.39	
103	32.95	29.473	165.488	85.574	480.485	115.048	645.973	3389.34	3295	-3549.34	
104	32.92	29.760	167.095	86.406	485.152	116.165	652.247	3422.26	3292	-3582.26	
105	32.97	30.046	168.705	87.238	489.826	117.284	658.531	3455.23	3297	-3615.23	
106	33.00	30.333	170.316	88.071	494.504	118.405	664.820	3488.23	3300	-3648.23	
107	33.00	30.620	171.927	88.904	499.182	119.525	671.110	3521.23	3300	-3681.23	
108	32.90	30.906	173.534	89.735	503.846	120.641	677.380	3554.13	3290	-3714.13	
109	32.93	31.193	175.142	90.566	508.515	121.759	683.656	3587.06	3293	-3747.06	
110	32.97	31.479	176.751	91.399	513.189	122.878	689.940	3620.03	3297	-3780.03	329.54
111	32.97	31.766	178.361	92.231	517.863	123.997	696.224	3653.00	3297	-3813.00	
112	33.03	32.053	179.974	93.065	522.545	125.119	702.519	3686.03	3303	-3846.03	
113	32.92	32.340	181.581	93.896	527.212	126.236	708.793	3718.95	3292	-3878.95	
114	32.92	32.626	183.189	94.728	531.879	127.354	715.067	3751.87	3292	-3911.87	
115	32.90	32.912	184.795	95.558	536.543	128.470	721.338	3784.77	3290	-3944.77	
116	32.90	33.198	186.401	96.389	541.207	129.587	727.608	3817.67	3290	-3977.67	
117	32.95	33.485	188.010	97.221	545.878	130.705	733.888	3850.62	3295	-4010.62	
118	33.00	33.772	189.621	98.054	550.556	131.826	740.178	3883.62	3300	-4043.62	
119	32.90	34.058	191.228	98.885	555.220	132.942	746.448	3916.52	3290	-4076.52	
120	32.90	34.344	192.834	99.715	559.884	134.059	752.718	3949.42	3290	-4109.42	329.39
121	33.00	34.631	194.445	100.549	564.562	135.179	759.008	3982.42	3300	-4142.42	
122	32.97	34.917	196.055	101.381	569.236	136.298	765.292	4015.39	3297	-4175.39	
123	32.93	35.204	197.663	102.212	573.905	137.416	771.568	4048.32	3293	-4208.32	
124	33.00	35.491	199.274	103.046	578.583	138.536	777.857	4081.32	3300	-4241.32	
125	32.93	35.777	200.882	103.877	583.251	139.654	784.133	4114.25	3293	-4274.25	
126	32.90	36.063	202.489	104.708	587.915	140.771	790.404	4147.15	3290	-4307.15	
127	32.97	36.350	204.098	105.540	592.589	141.890	796.687	4180.12	3297	-4340.12	
128	32.93	36.636	205.706	106.372	597.257	143.008	802.964	4213.05	3293	-4373.05	
129	32.98	36.923	207.316	107.204	601.933	144.127	809.249	4246.03	3298	-4406.03	
130	32.90	37.209	208.923	108.035	606.597	145.244	815.520	4278.93	3290	-4438.93	329.51
131	32.95	37.496	210.532	108.867	611.268	146.363	821.800	4311.88	3295	-4471.88	
132	33.00	37.783	212.143	109.700	615.946	147.483	828.089	4344.88	3300	-4504.88	
133	32.87	38.068	213.748	110.530	620.606	148.598	834.354	4377.75	3287	-4537.75	
134	32.95	38.355	215.357	111.362	625.277	149.717	840.634	4410.70	3295	-4570.70	
135	32.94	38.641	216.965	112.193	629.947	150.835	846.912	4443.64	3294	-4603.64	
136	32.90	38.928	218.571	113.024	634.611	151.952	853.182	4476.54	3290	-4636.54	
137	32.92	39.214	220.179	113.855	639.278	153.069	859.456	4509.46	3292	-4669.46	
138	32.97	39.501	221.789	114.688	643.951	154.188	865.740	4542.43	3297	-4702.43	
139	32.95	39.787	223.397	115.520	648.623	155.307	872.020	4575.38	3295	-4735.38	
140	33.00	40.074	225.009	116.353	653.301	156.427	878.309	4608.38	3300	-4768.38	329.45
141	32.95	40.361	226.617	117.185	657.972	157.545	884.589	4641.33	3295	-4801.33	
142	32.97	40.647	228.227	118.017	662.646	158.664	890.873	4674.30	3297	-4834.30	
143	32.95	40.934	229.836	118.849	667.317	159.783	897.153	4707.25	3295	-4867.25	
144	32.90	41.220	231.442	119.680	671.981	160.900	903.423	4740.15	3290	-4900.15	
145	33.00	41.507	233.054	120.513	676.659	162.020	909.713	4773.15	3300	-4933.15	
146	32.93	41.793	234.661	121.344	681.327	163.138	915.989	4806.08	3293	-4966.08	
147	32.95	42.080	236.270	122.176	685.999	164.256	922.269	4839.03	3295	-4999.03	
148	32.95	42.366	237.879	123.008	690.670	165.375	928.549	4871.98	3295	-5031.98	
149	32.90	42.652	239.485	123.839	695.334	166.491	934.819	4904.88	3290	-5064.88	
150	33.00	42.939	241.097	124.672	700.012	167.611	941.109	4937.88	3300	-5097.88	329.50
151	32.93	43.226	242.705	125.504	704.680	168.729	947.385	4970.81	3293	-5130.81	
152	33.00	43.513	244.316	126.337	709.358	169.849	953.674	5003.81	3300	-5163.81	
153	32.95	43.799	245.925	127.169	714.030	170.968	959.954	5036.76	3295	-5196.76	
154	33.02	44.086	247.537	128.002	718.711	172.089	966.247	5069.78	3302	-5229.78	
155	32.97	44.373	249.147	128.835	723.384	173.208	972.531	5102.75	3297	-5262.75	
156	32.96	44.660	250.756	129.667	728.057	174.327	978.813	5135.71	3296	-5295.71	
157	32.92	44.946	252.363	130.498	732.724	175.444	985.087	5168.63	3292	-5328.63	
158	32.93	45.232	253.971	131.330	737.392	176.562	991.363	5201.56	3293	-5361.56	
159	32.97	45.519	255.581	132.162	742.066	177.681	997.647	5234.53	3297	-5394.53	
160	32.98	45.806	257.191	132.995	746.741	178.800	1003.933	5267.51	3298	-5427.51	329.63
161	32.98	46.093	258.802	133.827	751.417	179.920	1010.218	5300.49	3298	-5460.49	
162	32.93	46.379	260.409	134.659	756.085	181.038	1016.494	5333.42	3293	-5493.42	
163	32.90	46.665	262.016	135.489	760.749	182.154	1022.765	5366.32	3290	-5526.32	
164	33.00	46.952	263.627	136.323	765.427	183.275	1029.054	5399.32	3300	-5559.32	
165	32.97	47.239	265.237	137.155	770.101	184					

171	32.97	48.958	274.892	142.148	798.134	191.106	1073.025	5630.03	3297	-5790.03	
172	32.95	49.245	276.500	142.980	802.805	192.224	1079.305	5662.98	3295	-5822.98	
173	32.90	49.531	278.107	143.810	807.469	193.341	1085.576	5695.88	3290	-5855.88	
174	32.97	49.818	279.717	144.643	812.143	194.460	1091.859	5728.85	3297	-5888.85	
175	33.00	50.104	281.328	145.476	816.821	195.580	1098.149	5761.85	3300	-5921.85	
176	32.90	50.391	282.934	146.306	821.485	196.697	1104.419	5794.75	3290	-5954.75	
177	32.97	50.677	284.544	147.139	826.159	197.816	1110.703	5827.72	3297	-5987.72	
178	30.40	50.942	286.028	147.906	830.469	198.848	1116.497	5858.12	3040	-6018.12	
179	32.95	51.228	287.637	148.738	835.140	199.967	1122.777	5891.07	3295	-6051.07	
180	32.97	51.515	289.247	149.571	839.814	201.086	1129.061	5924.04	3297	-6084.04	326.98
181	32.95	51.801	290.856	150.403	844.485	202.204	1135.340	5956.99	3295	-6116.99	
182	32.92	52.088	292.463	151.234	849.152	203.322	1141.615	5989.91	3292	-6149.91	
183	32.91	52.374	294.070	152.065	853.817	204.439	1147.887	6022.82	3291	-6182.82	
184	32.93	52.660	295.678	152.896	858.485	205.556	1154.163	6055.75	3293	-6215.75	
185	32.95	52.947	297.287	153.728	863.156	206.675	1160.443	6088.70	3295	-6248.70	
186	32.95	53.233	298.895	154.560	867.827	207.793	1166.723	6121.65	3295	-6281.65	
187	32.85	53.519	300.499	155.389	872.484	208.908	1172.984	6154.50	3285	-6314.50	
188	32.93	53.805	302.107	156.221	877.153	210.026	1179.260	6187.43	3293	-6347.43	
189	33.00	54.092	303.718	157.054	881.831	211.146	1185.549	6220.43	3300	-6380.43	
190	32.95	54.379	305.327	157.886	886.502	212.265	1191.829	6253.38	3295	-6413.38	329.34
191	32.96	54.665	306.937	158.718	891.175	213.384	1198.111	6286.34	3296	-6446.34	
192	32.94	54.952	308.545	159.550	895.844	214.502	1204.389	6319.28	3294	-6479.28	
193	32.97	55.239	310.155	160.382	900.518	215.621	1210.673	6352.25	3297	-6512.25	
194	30.40	55.503	311.639	161.150	904.828	216.653	1216.467	6382.65	3040	-6542.65	
195	32.97	55.790	313.249	161.982	909.502	217.772	1222.751	6415.62	3297	-6575.62	
196	32.91	56.076	314.856	162.813	914.167	218.889	1229.023	6448.53	3291	-6608.53	
197	32.90	56.362	316.462	163.644	918.831	220.006	1235.293	6481.43	3290	-6641.43	
198	32.95	56.648	318.071	164.476	923.502	221.124	1241.573	6514.38	3295	-6674.38	
199	32.91	56.935	319.678	165.307	928.168	222.241	1247.845	6547.29	3291	-6707.29	
200	32.91	57.221	321.285	166.138	932.833	223.358	1254.118	6580.20	3291	-6740.20	326.82
201	32.97	57.507	322.894	166.970	937.507	224.478	1260.402	6613.17	3297	-6773.17	
202	33.00	57.794	324.506	167.803	942.185	225.598	1266.691	6646.17	3300	-6806.17	
203	32.97	58.081	326.115	168.636	946.859	226.717	1272.975	6679.14	3297	-6839.14	
204	32.87	58.367	327.720	169.466	951.519	227.833	1279.239	6712.01	3287	-6872.01	
205	32.90	58.653	329.327	170.296	956.183	228.949	1285.510	6744.91	3290	-6904.91	
206	32.95	58.940	330.936	171.128	960.854	230.068	1291.790	6777.86	3295	-6937.86	
207	33.00	59.227	332.547	171.961	965.532	231.188	1298.079	6810.86	3300	-6970.86	
208	32.97	59.513	334.157	172.794	970.206	232.307	1304.363	6843.83	3297	-7003.83	
209	32.93	59.800	335.764	173.625	974.875	233.425	1310.639	6876.76	3293	-7036.76	
210	32.97	60.086	337.374	174.458	979.549	234.544	1316.923	6909.73	3297	-7069.73	329.53
211	33.00	60.373	338.985	175.291	984.227	235.664	1323.212	6942.73	3300	-7102.73	
212	33.02	60.660	340.598	176.124	988.908	236.785	1329.506	6975.75	3302	-7135.75	
213	32.91	60.947	342.205	176.955	993.573	237.902	1335.778	7008.66	3291	-7168.66	
214	33.00	61.234	343.816	177.789	998.251	239.022	1342.067	7041.66	3300	-7201.66	
215	32.90	61.520	345.422	178.619	1002.915	240.139	1348.338	7074.56	3290	-7234.56	
216	32.95	61.806	347.031	179.451	1007.587	241.257	1354.618	7107.51	3295	-7267.51	
217	32.94	62.093	348.639	180.283	1012.256	242.376	1360.896	7140.45	3294	-7300.45	
218	32.95	62.379	350.248	181.115	1016.927	243.494	1367.176	7173.40	3295	-7333.40	
219	32.97	62.666	351.858	181.947	1021.601	244.613	1373.459	7206.37	3297	-7366.37	
220	32.85	62.952	353.462	182.777	1026.258	245.728	1379.720	7239.22	3285	-7399.22	329.49
221	30.70	63.219	354.961	183.552	1030.610	246.770	1385.571	7269.92	3070	-7429.92	
222	32.97	63.505	356.571	184.384	1035.284	247.889	1391.855	7302.89	3297	-7462.89	
223	33.03	63.792	358.183	185.218	1039.967	249.011	1398.150	7335.92	3303	-7495.92	
224	32.95	64.079	359.792	186.050	1044.638	250.129	1404.430	7368.87	3295	-7528.87	
225	32.85	64.365	361.396	186.879	1049.295	251.244	1410.691	7401.72	3285	-7561.72	
226	32.95	64.651	363.005	187.711	1053.966	252.363	1416.971	7434.67	3295	-7594.67	
227	32.98	64.938	364.615	188.544	1058.641	253.482	1423.257	7467.65	3298	-7627.65	
228	32.95	65.224	366.224	189.376	1063.312	254.600	1429.536	7500.60	3295	-7660.60	
229	32.93	65.511	367.832	190.207	1067.981	255.718	1435.813	7533.53	3293	-7693.53	
230	32.92	65.797	369.439	191.039	1072.648	256.836	1442.087	7566.45	3292	-7726.45	327.23
231	33.06	66.085	371.053	191.873	1077.334	257.958	1448.388	7599.51	3306	-7759.51	
232	32.87	66.370	372.658	192.703	1081.994	259.074	1454.652	7632.38	3287	-7792.38	
233	32.95	66.657	374.267	193.535	1086.665	260.192	1460.932	7665.33	3295	-7825.33	
234	32.93	66.943	375.875	194.366	1091.333	261.310	1467.208	7698.26	3293	-7858.26	
235	32.93	67.230	377.483	195.198	1096.002	262.428	1473.485	7731.19	3293	-7891.19	
236	33.03	67.517	379.095	196.032	1100.684	263.549	1479.780	7764.22	3303	-7924.22	
237	32.95	67.803	380.704	196.864	1105.355	264.667	1486.060	7797.17	3295	-7957.17	
238	30.28	68.067	382.183	197.628	1109.648	265.695	1491.831	7827.45	3028	-7987.45	
239	33.00	68.354	383.794	198.461	1114.326	266.815	1498.120	7860.45	3300	-8020.45	
240	32.90	68.640	385.400	199.292	1118.990	267.932	1504.391	7893.35	3290	-8053.35	326.90
241	32.87	68.926	387.005	200.122	1123.650	269.048	1510.655	7926.22	3287	-8086.22	
242	32.97	69.212	388.615	200.954	1128.324	270.167	1516.939	7959.19	3297	-8119.19	
243	32.98	69.499	390.225	201.787	1132.999	271.286	1523.225	7992.17	3298	-8152.17	
244	32.95	69.786	391.834	202.619	1137.670	272.405	1529.505	8025.12	3295	-8185.12	
245	32.85	70.071	393.438	203.448	1142.327	273.520	1535.765	8057.97	3285	-8217.97	
246	32.95	70.358	395.047	204.280	1146.998	274.638	1542.045	8090.92	3295	-8250.92	
247	33.03	70.645	396.660	205.114	1151.681	275.759	1548.341	8123.95	3303	-8283.95	
248	32.96	70.932	398.269	205.947	1156.353	276.878	1554.622	8156.91	3296	-8316.91	
249	32.91	71.218	399.876	206.777	1161.019	277.995	1560.895	8189.82	3291	-8349.82	
250	32.92	71.504	401.483	207.609	1165.686	279.113	1567.169	8222.74	3292	-8382.74	329.39
251	30.40	71.769	402.967	208.376	1169.995	280.145	1572.963	8253.14	3040	-8413.14	
252	32.90	72.055	404.574	209.207	1174.659	281.261	1579.233	8286.04	3290	-8446.04	
253	32.80	72.340	406.175	210.035	1179.309	282.375	1585.485	8318.84	3280	-8478.84	
254	32.95	72.626	407.784	210.867	1183.980	283.493	1591.764	8351.79	3295	-8511.79	
255	32.92	72.913	409.392	211.698	1188.647	284.611	1598.039	8384.71	3292	-8544.71	
256	32.85	73.198	410.995	212.527	1193.304	285.726	1604.300	8417.56	3285	-8577.56	
257	33.00	73.485	412.607	213.361	1197.982	286.846	1610.589	8450.56	3300	-8610.56	
258	32.87	73.771	414.212	214.191	1202.642	287.962	1616.854	8483.43	3287	-8643.43	
259	32.95	74.058	415.820	215.022	1207.313	289.080	1623.134	8516.38	3295	-8676.38	
260	32.80	74.343	417.422	215.851	1211.963	290.193	1629.385	8549.18	3280	-8709.18	326.44
261	32.90	74.629	419.028	216.681	1216.627	291.310	1635.655	8582.08	3290	-8742.08	
262	32.90	74.915	420.635	217.512	1221.291	292.427	1641.926	8614.98	3290	-8774.98	
263	33.03	75.202	422.247	218.346	1225.974	293.548	1648.221	8648.0			

271	32.93	77.493	435.110	224.997	1263.320	302.490	1698.430	8911.45	3293	-9071.45	329.32
272	32.90	77.779	436.716	225.828	1267.984	303.607	1704.700	8944.35	3290	-9104.35	
273	32.90	78.065	438.323	226.659	1272.648	304.724	1710.971	8977.25	3290	-9137.25	
274	33.00	78.352	439.934	227.492	1277.326	305.844	1717.260	9010.25	3300	-9170.25	
275	32.92	78.639	441.541	228.323	1281.993	306.961	1723.534	9043.17	3292	-9203.17	
276	32.97	78.925	443.151	229.155	1286.667	308.081	1729.818	9076.14	3297	-9236.14	
277	33.00	79.212	444.763	229.989	1291.345	309.201	1736.107	9109.14	3300	-9269.14	
278	32.88	79.498	446.368	230.819	1296.006	310.317	1742.374	9142.02	3288	-9302.02	
279	32.90	79.784	447.974	231.649	1300.670	311.434	1748.644	9174.92	3290	-9334.92	
280	32.92	80.070	449.582	232.481	1305.337	312.551	1754.919	9207.84	3292	-9367.84	
281	32.93	80.357	451.189	233.312	1310.005	313.669	1761.195	9240.77	3293	-9400.77	329.38
282	32.93	80.643	452.797	234.143	1314.674	314.787	1767.471	9273.70	3293	-9433.70	
283	33.00	80.930	454.409	234.977	1319.352	315.907	1773.760	9306.70	3300	-9466.70	
284	32.90	81.216	456.015	235.807	1324.016	317.023	1780.031	9339.60	3290	-9499.60	
285	32.97	81.503	457.625	236.640	1328.690	318.143	1786.315	9372.57	3297	-9532.57	
286	32.90	81.789	459.231	237.470	1333.354	319.259	1792.585	9405.47	3290	-9565.47	
287	32.95	82.076	460.840	238.302	1338.025	320.378	1798.865	9438.42	3295	-9598.42	
288	32.88	82.362	462.445	239.132	1342.686	321.494	1805.131	9471.30	3288	-9631.30	
289	32.97	82.648	464.055	239.965	1347.360	322.613	1811.415	9504.27	3297	-9664.27	
290	32.95	82.935	465.664	240.797	1352.031	323.731	1817.695	9537.22	3295	-9697.22	
291	32.98	83.222	467.274	241.629	1356.707	324.851	1823.981	9570.20	3298	-9730.20	BULL PLUG
292	32.93	83.508	468.882	242.461	1361.375	325.969	1830.257	9603.13	3293	-9763.13	
293	32.93	83.794	470.490	243.292	1366.043	327.087	1836.533	9636.06	3293	-9796.06	
294	33.00	84.081	472.101	244.125	1370.721	328.207	1842.822	9669.06	3300	-9829.06	
295	32.87	84.367	473.706	244.955	1375.381	329.322	1849.087	9701.93	3287	-9861.93	
296	32.91	84.653	475.313	245.786	1380.047	330.440	1855.359	9734.84	3291	-9894.84	
297	32.90	84.939	476.919	246.617	1384.711	331.556	1861.630	9767.74	3290	-9927.74	
298	32.94	85.226	478.528	247.449	1389.380	332.674	1867.908	9800.68	3294	-9960.68	
299	32.88	85.512	480.133	248.279	1394.041	333.790	1874.174	9833.56	3288	-9993.56	
300	32.85	85.797	481.737	249.108	1398.698	334.906	1880.435	9866.41	3285	-10026.41	
301	32.91	86.084	483.344	249.939	1403.364	336.023	1886.708	9899.32	3291	-10059.32	329.19
302	32.80	86.369	484.945	250.767	1408.014	337.136	1892.959	9932.12	3280	-10092.12	
303	32.97	86.655	486.555	251.600	1412.688	338.255	1899.243	9965.09	3297	-10125.09	
304	32.90	86.942	488.161	252.430	1417.352	339.372	1905.513	9997.99	3290	-10157.99	
305	32.85	87.227	489.765	253.260	1422.009	340.487	1911.774	10030.84	3285	-10190.84	
306	32.94	87.514	491.374	254.091	1426.678	341.605	1918.052	10063.78	3294	-10223.78	
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