



# Partner Completion and Workover

Report # 14.0, Report Date: 9/25/2017

## Well Name: UNIVERSITY 3-35 #102HB

API/UWI No. 42461405920000	Surface Legal Location A-U47, SEC. 11; BLK. 4 CCSD&RGNG R...	Field Name SPRABERRY (TREND AREA)	Well License/Perm... 826301	State/Province TEXAS	County UPTON	Well Config Horizontal
Original KB Elevation (ft) 2,731.60	KB-Tubing Head Distance (ft)	Original Spud/Spud Rig Date 6/3/2017 18:30	Large Rig Spud Date	Rig Release Date 6/28/2017 16:30	PBTD (All) (ftKB)	TD All (TVD) (ftKB)

Primary Job Type 08-Completion	Secondary Job Type Original Completion
Objective COMPLETE WITH 52 STAGES.	

Contractor			Rig Number	
AFE Number	Total AFE + Supp Amount (Cost)	Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)	
DD.17.30779.CAP.CMP	5,445,000.00	309,813	2,120,955	

Daily Readings			
Weather	Temperature (°F)	Road Condition	Rig Time (hr)

Short Report

STAGE 21: Set plug @ 15,230' and perforate five 2' clusters from 15,065'-15,213'. Fraced with 3,990 gallons 15% HCL acid, 85,617 pounds 100 mesh sand, 102,859 pounds 40/70 mesh sand, and 109,131 pounds 30/50 mesh sand. Average rate 82 (BPM) @ 6,613 (PSI) pump pressure. Load to recover 6,910 barrels.

STAGE 22: Set plug @ 15,040' and perforate five 2' clusters from 14,869'-15,023'. Fraced with 3,990 gallons 15% HCL acid, 84,975 pounds 100 mesh sand, 101,872 pounds 40/70 mesh sand, and 103,004 pounds 30/50 mesh sand. Average rate 82 (BPM) @ 6,318 (PSI) pump pressure. Load to recover 7,568 barrels.

STAGE 23: Set plug @ 14,850' and perforate five 2' clusters from 14,679'-14,833'. Fraced with 3,990 gallons 15% HCL acid, 85,564 pounds 100 mesh sand, 104,872 pounds 40/70 mesh sand, and 102,953 pounds 30/50 mesh sand. Average rate 82 (BPM) @ 6,402 (PSI) pump pressure. Load to recover 7,582 barrels.

STAGE 24: Set plug @ 14,655' and perforate five 2' clusters from 14,492'-14,638'. Fraced with 3,990 gallons 15% HCL acid, 84,777 pounds 100 mesh sand, 101,231 pounds 40/70 mesh sand, and 104,419 pounds 30/50 mesh sand. Average rate 82 (BPM) @ 6,309 (PSI) pump pressure. Load to recover 7,605 barrels.

Running in hole to perforate stage 25 at time of report.

Current Status/OART PERF STG 25	24 Hour Forecast 24HR FRAC OPS
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Daily Contacts		
Job Contact MARTY HAM, Foreman	Title Foreman	Phone Mobile
Job Contact CHASE ALDER, Consultant	Title Consultant	Phone Mobile
Job Contact BRANDON WILSON, Consultant	Title Consultant	Phone Mobile

Personnel Log					
Count 4	Type Service	Company NICHOLS	Note PUMPS	Pers Tot Hrs (hr)	Cum Pers Tot...
Count 2	Type Service	Company COMPLETION EQUIPMENT RENTALS, INC	Note BACKSIDE	Pers Tot Hrs (hr)	Cum Pers Tot...
Count 2	Type Contractor	Company BEDROCK CONSULTING	Note C. ALDER/B.WILSON	Pers Tot Hrs (hr)	Cum Pers Tot...
Count 1	Type Operator	Company HUNT OIL COMPANY	Note MARTY HAM	Pers Tot Hrs (hr)	Cum Pers Tot...
Count 8	Type Service	Company SCHLUMBERGER	Note ELINE	Pers Tot Hrs (hr)	Cum Pers Tot...
Count 2	Type Service	Company PREMIER FLOW CONTROL	Note FLOWBACK	Pers Tot Hrs (hr)	Cum Pers Tot...
Count 16	Type Service	Company SCHLUMBERGER	Note FRAC	Pers Tot Hrs (hr)	Cum Pers Tot...
Count 4	Type Service	Company QUIK PIPE WATER TRANSFER	Note WATER TRANSFER	Pers Tot Hrs (hr)	Cum Pers Tot...
Count 2	Type Contractor	Company ELY & ASSOCIATES	Note FRAC QA/QC	Pers Tot Hrs (hr)	Cum Pers Tot...
Count 4	Type Service	Company K D TIMMONS	Note FUEL	Pers Tot Hrs (hr)	Cum Pers Tot...

Time Log							
Start Time	End Time	Dur (hr)	Phase	Ops Code	Sub Code	Time Code	Operation Summary
06:00	07:00	1.00	39STIM, Stim & Treat	PF	c	O	STAGE 21 PERFS: RAN IN HOLE WITH 3-1/8" OD GUNS ON WIRELINE. PUMP DOWN GUNS AT 16 BPM, 4,100 PSI PUMP PRESSURE, 334 TBBLs PUMPED. SET PLUG @ 15,230' MD, PERFS 15,211'-13', 15,173'-75', 15,135'-37', 15,097'-99' AND 15,065'-67'. POOH, VERIFIED GUNS FIRED.
07:00	09:30	2.50	39STIM, Stim & Treat	DT	e	O	WAIT TO COMPLETE OPERATIONS ON ADJACENT WELL.



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API/UWI No. 42461405920000	Surface Legal Location A-U47, SEC. 11: BLK. 4 CCSD&RGNG R...	Field Name SPRABERRY (TREND AREA)	Well License/Perm... 826301	State/Province TEXAS	County UPTON	Well Config Horizontal
Original KB Elevation (ft) 2,731.60	KB-Tubing Head Distance (ft)	Original Spud/Spud Rig Date 6/3/2017 18:30	Large Rig Spud Date	Rig Release Date 6/28/2017 16:30	PBTD (All) (ftKB)	TD All (TVD) (ftKB)

## Time Log

Start Time	End Time	Dur (hr)	Phase	Ops Code	Sub Code	Time Code	Operation Summary
09:30	11:30	2.00	39STIM, Stim & Treat	ST	b	O	FRAC STAGE 21: WITH 3,990 GALS 15% HCL, 85,617 LBS 100 MESH SAND, 102,859 LBS 40/70 MESH SAND, 109,131 LBS 30/50 MESH. AVG RATE 82 BPM @ 6,613 PSI PUMP PRESS. FINAL 3,610 PSI, FRAC GRADIENT .86 LTR, 6,910 BBLS.
11:30	13:30	2.00	39STIM, Stim & Treat	PF	c	O	STAGE 22 PERFS: RAN IN HOLE WITH 3-1/8" OD GUNS ON WIRELINE. PUMP DOWN GUNS AT 16 BPM, 4,200 PSI PUMP PRESSURE, 229 TBLS PUMPED. SET PLUG @ 15,040' MD, PERFS 15,021'-23', 14,983'-85', 14,945'-97', 14,907'-09' AND 14,869'-71'. POOH, VERIFIED GUNS FIRED.
13:30	15:30	2.00	39STIM, Stim & Treat	DT	e	O	WAIT TO COMPLETE OPERATIONS ON ADJACENT WELL.
15:30	17:30	2.00	39STIM, Stim & Treat	ST	b	O	FRAC STAGE 22: WITH 3,990 GALS 15% HCL, 84,975 LBS 100 MESH SAND, 103,120 LBS 40/70 MESH SAND, 103,004 LBS 30/50 MESH. AVG RATE 82 BPM @ 6,318 PSI PUMP PRESS. FINAL 3,771 PSI, FRAC GRADIENT .88 LTR, 7,568 BBLS.
17:30	19:30	2.00	39STIM, Stim & Treat	PF	c	O	STAGE 23 PERFS: RAN IN HOLE WITH 3-1/8" OD GUNS ON WIRELINE. PUMP DOWN GUNS AT 16 BPM, 4,600 PSI PUMP PRESSURE, 329 TBLS PUMPED. SET PLUG @ 14,850' MD, PERFS 14,831'-33', 14,791'-93', 14,760'-62', 14,717'-19' AND 14,679'-81'. POOH, VERIFIED GUNS FIRED.
19:30	21:00	1.50	39STIM, Stim & Treat	DT	e	O	WAIT TO COMPLETE OPERATIONS ON ADJACENT WELL.
21:00	23:00	2.00	39STIM, Stim & Treat	ST	b	O	FRAC STAGE 23: WITH 3,990 GALS 15% HCL, 85,564 LBS 100 MESH SAND, 104,872 LBS 40/70 MESH SAND, 102,953 LBS 30/50 MESH. AVG RATE 82 BPM @ 6,402 PSI PUMP PRESS. FINAL 3,788 PSI, FRAC GRADIENT .88 LTR, 7,582 BBLS.
23:00	01:00	2.00	39STIM, Stim & Treat	PF	c	O	STAGE 24 PERFS: RAN IN HOLE WITH 3-1/8" OD GUNS ON WIRELINE. PUMP DOWN GUNS AT 16 BPM, 4,900 PSI PUMP PRESSURE, 319 TBLS PUMPED. SET PLUG @ 14,655' MD, PERFS 14,636'-38', 14,603'-05', 14,603'-05', 14,565'-67' AND 14,492'-94'. POOH, VERIFIED GUNS FIRED.
01:00	02:30	1.50	39STIM, Stim & Treat	DT	e	O	WAIT TO COMPLETE OPERATIONS ON ADJACENT WELL.
02:30	04:30	2.00	39STIM, Stim & Treat	ST	b	O	FRAC STAGE 24: WITH 3,990 GALS 15% HCL, 84,777 LBS 100 MESH SAND, 101,231 LBS 40/70 MESH SAND, 104,419 LBS 30/50 MESH. AVG RATE 82 BPM @ 6,309 PSI PUMP PRESS. FINAL 3,692 PSI, FRAC GRADIENT .87 LTR, 7,605 BBLS.
04:30	06:00	1.50	39STIM, Stim & Treat	PF	c	O	RIH TO PERF STG 25 AT TIME OF REPORT

## Report Fluids Summary

Fluid	To well (bbl)	From well (bbl)	To lease (bbl)	From lease (bbl)

## Safety Checks

Time	Safety Topic	Type	Com
06:00		Tail Gate	PINCH POINTS, HIGH PRESSURE DURING TEST

## Logs

Time	Type	Top (ftKB)	Btm (ftKB)	Cased?

## Perforations

Time	Top (ftKB)	Btm (ftKB)	Current Status	Linked Zone
04:00	13,729.0	13,880.0		
19:30	13,919.0	14,070.0		
17:45	14,109.0	14,263.0		
06:00	14,299.0	14,453.0		
01:00	14,492.0	14,638.0		
17:00	14,679.0	14,833.0		
11:30	14,869.0	15,023.0		
06:00	15,065.0	15,213.0		
00:15	15,249.0	15,403.0		
18:00	15,439.0	15,591.0		
07:30	15,629.0	15,783.0		
02:15	15,819.0	15,973.0		
22:45	16,009.0	16,163.0		
12:15	16,199.0	16,348.0		



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## Perforations

Time	Top (ftKB)	Btm (ftKB)	Current Status	Linked Zone
06:30	16,389.0	16,543.0		
00:30	16,583.0	16,732.0		
10:00	16,769.0	16,921.0		
05:15	16,959.0	17,113.0		
23:15	17,149.0	17,302.0		
14:30	17,339.0	17,493.0		
13:45	17,529.0	17,683.0		
05:00	17,719.0	17,869.0		
10:00	17,909.0	18,063.0		
04:00	18,099.0	18,253.0		
20:15	18,289.0	18,443.0		
06:00	18,479.0	18,633.0		
19:15	18,669.0	18,823.0		
19:12	18,852.0	19,013.0		
15:00	19,071.0	19,085.0		

## Stimulations Summary

Type	Subtype	Stim/Treat Company
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## Stimulation Intervals

Interval Number	Type	Top (ftKB)	Btm (ftKB)

## Tubing Run

Run Time	Tubing Description	Set Depth (ftKB)	String Max Nominal OD (in)	Weight/Length (lb/ft)	String Grade

## Tubing Pulled

Pull Time	Tubing Description	Set Depth (ftKB)	String Max Nominal OD (in)	Weight/Length (lb/ft)	String Grade

## Other in Hole Run (Bridge Plugs, etc)

Run Time	Des	OD (in)	Top (ftKB)	Btm (ftKB)

## Other in Hole Pulled (Bridge Plugs, etc)

Pull Time	Des	Top (ftKB)	Btm (ftKB)	OD (in)

## Cement

Start Time	Des	Type	String	Cement Comp
02:00	Primary Single Stage	Casing	Surface Casing, 684.0ftKB	DOWELL SCHLUMBERGER
08:00	Top Out	Casing	Surface Casing, 684.0ftKB	DOWELL SCHLUMBERGER
19:03	Primary Multiple Stage	Casing	Intermediate Casing, 7,787.0ftKB	DOWELL SCHLUMBERGER
16:00	Primary Single Stage	Casing	Production Casing, 19,215.0ftKB	DOWELL SCHLUMBERGER

## Job Supplies

Supply Item Description	Unit Label	Total Received	Total Consumed	Inventory On Location
FUEL	Gal	68,385.0	68,385.0	0.0



# Partner Completion and Workover

Report # 15.0, Report Date: 9/26/2017

Well Name: UNIVERSITY 3-35 #102HB

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Primary Job Type 08-Completion	Secondary Job Type Original Completion
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Objective  
COMPLETE WITH 52 STAGES.

Contractor	Rig Number
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AFE Number DD.17.30779.CAP.CMP	Total AFE + Supp Amount (Cost) 5,445,000.00	Daily Field Est Total (Cost) 245,545	Cum Field Est To Date (Cost) 2,366,500
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## Daily Readings

Weather	Temperature (°F)	Road Condition	Rig Time (hr)
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Short Report  
STAGE 25: Set plug @ 14,470' and perforate five 2' clusters from 14,299'-14,453'. Fraced with 3,990 gallons 15% HCL acid, 83,275 pounds 100 mesh sand, 99,337 pounds 40/70 mesh sand, and 102,330 pounds 30/50 mesh sand. Average rate 81 (BPM) @ 6,126 (PSI) pump pressure. Load to recover 7,466 barrels.

STAGE 26: Set plug @ 14,280' and perforate five 2' clusters from 14,109'-14,263'. Fraced with 3,990 gallons 15% HCL acid, 84,817 pounds 100 mesh sand, 101,984 pounds 40/70 mesh sand, and 102,200 pounds 30/50 mesh sand. Average rate 82 (BPM) @ 6,130 (PSI) pump pressure. Load to recover 7,613 barrels.

STAGE 27: Set plug @ 14,086' and perforate five 2' clusters from 13,919'-14,070'. Fraced with 3,990 gallons 15% HCL acid, 82,501 pounds 100 mesh sand, 103,686 pounds 40/70 mesh sand, and 103,725 pounds 30/50 mesh sand. Average rate 82 (BPM) @ 6,137 (PSI) pump pressure. Load to recover 7,737 barrels.

STAGE 28: Set plug @ 13,900' and perforate five 2' clusters from 13,729'-13,880'.

Waiting to complete operations on adjacent well at time of report.

Current Status/OART STBY TO FRAC STG 28	24 Hour Forecast 24HR FRAC OPS
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## Daily Contacts

Job Contact MARTY HAM, Foreman	Title Foreman	Phone Mobile
Job Contact CHASE ALDER, Consultant	Title Consultant	Phone Mobile
Job Contact BRANDON WILSON, Consultant	Title Consultant	Phone Mobile

## Personnel Log

Count	Type	Company	Note	Pers Tot Hrs (hr)	Cum Pers Tot...
4	Service	NICHOLS	PUMPS		
2	Service	COMPLETION EQUIPMENT RENTALS, INC	BACKSIDE		
2	Contractor	BEDROCK CONSULTING	C. ALDER/B.WILSON		
1	Operator	HUNT OIL COMPANY	MARTY HAM		
8	Service	SCHLUMBERGER	ELINE		
2	Service	PREMIER FLOW CONTROL	FLOWBACK		
16	Service	SCHLUMBERGER	FRAC		
4	Service	QUIK PIPE WATER TRANSFER	WATER TRANSFER		
2	Contractor	ELY & ASSOCIATES	FRAC QA/QC		
4	Service	K D TIMMONS	FUEL		

## Time Log

Start Time	End Time	Dur (hr)	Phase	Ops Code	Sub Code	Time Code	Operation Summary
06:00	07:00	1.00	39STIM, Stim & Treat	PF	c	O	STAGE 25 PERFS: RAN IN HOLE WITH 3-1/8" OD GUNS ON WIRELINE. PUMP DOWN GUNS AT 16 BPM, 4,600 PSI PUMP PRESSURE, 334 TBBLs PUMPED. SET PLUG @ 14,470' MD, PERFS 14,451'-53', 14,413'-15', 14,375'-77', 14,337'-39' AND 14,299'-301'. POOH, VERIFIED GUNS FIRED.
07:00	11:00	4.00	39STIM, Stim & Treat	DT	e	O	WAIT TO COMPLETE OPERATIONS ON ADJACENT WELL.
11:00	13:00	2.00	39STIM, Stim & Treat	ST	b	O	FRAC STAGE 25: WITH 3,990 GALS 15% HCL, 83,275 LBS 100 MESH SAND, 99,337 LBS 40/70 MESH SAND, 102,330 LBS 30/50 MESH. AVG RATE 81 BPM @ 6,126 PSI PUMP PRESS. FINAL 3,702 PSI, FRAC GRADIENT .87 LTR, 7,466 BBLs.



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Original KB Elevation (ft) 2,731.60	KB-Tubing Head Distance (ft)	Original Spud/Spud Rig Date 6/3/2017 18:30	Large Rig Spud Date	Rig Release Date 6/28/2017 16:30	PBTD (All) (ftKB)	TD All (TVD) (ftKB)

Time Log							Operation Summary
Start Time	End Time	Dur (hr)	Phase	Ops Code	Sub Code	Time Code	
13:00	15:00	2.00	39STIM, Stim & Treat	PF	c	O	STAGE 26 PERFS: RAN IN HOLE WITH 3-1/8" OD GUNS ON WIRELINE. PUMP DOWN GUNS AT 16 BPM, 4,300 PSI PUMP PRESSURE, 290 TBBLs PUMPED. SET PLUG @ 14,280' MD, PERFS 14,261'-63', 14,223'-25', 14,190'-92', 14,147'-49' AND 14,109'-11'. POOH, VERIFIED GUNS FIRED.
15:00	17:00	2.00	39STIM, Stim & Treat	DT	e	O	WAIT TO COMPLETE OPERATIONS ON ADJACENT WELL.
17:00	19:00	2.00	39STIM, Stim & Treat	TR	a	O	MAKING REPAIRS TO FR LAS PUMP
19:00	21:00	2.00	39STIM, Stim & Treat	ST	b	O	FRAC STAGE 26: WITH 3,990 GALS 15% HCL, 84,817 LBS 100 MESH SAND, 101,984 LBS 40/70 MESH SAND, 102,200 LBS 30/50 MESH. AVG RATE 82 BPM @ 6,130 PSI PUMP PRESS. FINAL 3,773 PSI, FRAC GRADIENT .88 LTR, 7,613 BBLs.
21:00	23:00	2.00	39STIM, Stim & Treat	PF	c	O	STAGE 27 PERFS: RAN IN HOLE WITH 3-1/8" OD GUNS ON WIRELINE. PUMP DOWN GUNS AT 16 BPM, 4,500 PSI PUMP PRESSURE, 292 TBBLs PUMPED. SET PLUG @ 14,086' MD, PERFS 14,068'-70', 14,033'-35', 13,995'-97', 13,957'-59' AND 13,919'-21'. POOH, VERIFIED GUNS FIRED.
23:00	00:30	1.50	39STIM, Stim & Treat	DT	e	O	WAIT TO COMPLETE OPERATIONS ON ADJACENT WELL.
00:30	02:30	2.00	39STIM, Stim & Treat	ST	b	O	FRAC STAGE 27: WITH 3,990 GALS 15% HCL, 82,501 LBS 100 MESH SAND, 103,686 LBS 40/70 MESH SAND, 103,725 LBS 30/50 MESH. AVG RATE 82 BPM @ 6,137 PSI PUMP PRESS. FINAL 3,617 PSI, FRAC GRADIENT .86 LTR, 7,737 BBLs.
02:30	04:30	2.00	39STIM, Stim & Treat	PF	c	O	STAGE 28 PERFS: RAN IN HOLE WITH 3-1/8" OD GUNS ON WIRELINE. PUMP DOWN GUNS AT 16 BPM, 4,300 PSI PUMP PRESSURE, 286 TBBLs PUMPED. SET PLUG @ 13,900' MD, PERFS 13,878'-80', 13,843'-45', 13,805'-07', 13,767'-69' AND 13,729'-31'. POOH, VERIFIED GUNS FIRED.
04:30	06:00	1.50	39STIM, Stim & Treat	DT	e	O	WAIT TO COMPLETE OPERATIONS ON ADJACENT WELL.

Report Fluids Summary				
Fluid	To well (bbl)	From well (bbl)	To lease (bbl)	From lease (bbl)

Safety Checks			
Time	Safety Topic	Type	Com

Logs				
Time	Type	Top (ftKB)	Btm (ftKB)	Cased?

Perforations				
Time	Top (ftKB)	Btm (ftKB)	Current Status	Linked Zone
04:00	13,729.0	13,880.0		
19:30	13,919.0	14,070.0		
17:45	14,109.0	14,263.0		
06:00	14,299.0	14,453.0		
01:00	14,492.0	14,638.0		
17:00	14,679.0	14,833.0		
11:30	14,869.0	15,023.0		
06:00	15,065.0	15,213.0		
00:15	15,249.0	15,403.0		
18:00	15,439.0	15,591.0		
07:30	15,629.0	15,783.0		
02:15	15,819.0	15,973.0		
22:45	16,009.0	16,163.0		
12:15	16,199.0	16,348.0		
06:30	16,389.0	16,543.0		
00:30	16,583.0	16,732.0		
10:00	16,769.0	16,921.0		
05:15	16,959.0	17,113.0		
23:15	17,149.0	17,302.0		
14:30	17,339.0	17,493.0		
13:45	17,529.0	17,683.0		



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Original KB Elevation (ft) 2,731.60	KB-Tubing Head Distance (ft)	Original Spud/Spud Rig Date 6/3/2017 18:30	Large Rig Spud Date	Rig Release Date 6/28/2017 16:30	PBTD (All) (ftKB)	TD All (TVD) (ftKB)

## Perforations

Time	Top (ftKB)	Btm (ftKB)	Current Status	Linked Zone
05:00	17,719.0	17,869.0		
10:00	17,909.0	18,063.0		
04:00	18,099.0	18,253.0		
20:15	18,289.0	18,443.0		
06:00	18,479.0	18,633.0		
19:15	18,669.0	18,823.0		
19:12	18,852.0	19,013.0		
15:00	19,071.0	19,085.0		

## Stimulations Summary

Type	Subtype	Stim/Treat Company
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## Stimulation Intervals

Interval Number	Type	Top (ftKB)	Btm (ftKB)

## Tubing Run

Run Time	Tubing Description	Set Depth (ftKB)	String Max Nominal OD (in)	Weight/Length (lb/ft)	String Grade

## Tubing Pulled

Pull Time	Tubing Description	Set Depth (ftKB)	String Max Nominal OD (in)	Weight/Length (lb/ft)	String Grade

## Other in Hole Run (Bridge Plugs, etc)

Run Time	Des	OD (in)	Top (ftKB)	Btm (ftKB)

## Other in Hole Pulled (Bridge Plugs, etc)

Pull Time	Des	Top (ftKB)	Btm (ftKB)	OD (in)

## Cement

Start Time	Des	Type	String	Cement Comp
02:00	Primary Single Stage	Casing	Surface Casing, 684.0ftKB	DOWELL SCHLUMBERGER
08:00	Top Out	Casing	Surface Casing, 684.0ftKB	DOWELL SCHLUMBERGER
19:03	Primary Multiple Stage	Casing	Intermediate Casing, 7,787.0ftKB	DOWELL SCHLUMBERGER
16:00	Primary Single Stage	Casing	Production Casing, 19,215.0ftKB	DOWELL SCHLUMBERGER

## Job Supplies

Supply Item Description	Unit Label	Total Received	Total Consumed	Inventory On Location
FUEL	Gal	68,385.0	68,385.0	0.0