



Partner Completion and Workover

Report # 18.0, Report Date: 9/29/2017

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	PBD (All) (ftKB)	TD All (TVD) (ftKB)

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) 305,664	Cum Field Est To Date (Cost) 3,291,119
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Daily Readings

Weather	Temperature (°F)	Road Condition	Rig Time (hr)
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Short Report
STAGE 36: Fraced with 3,990 gallons 15% HCL acid, 85,864 pounds 100 mesh sand, 102,764 pounds 40/70 mesh sand, and 102,762 pounds 30/50 mesh sand. Average rate 79 (BPM) @ 6,001 (PSI) pump pressure. Load to recover 6,514 barrels.

STAGE 37: Set plug @ 12,190' and perforate five 2' clusters from 12,015'-12,173'. Fraced with 3,990 gallons 15% HCL acid, 83,519 pounds 100 mesh sand, 103,288 pounds 40/70 mesh sand, and 164,311 pounds 30/50 mesh sand. Average rate 81 (BPM) @ 6,056 (PSI) pump pressure. Load to recover 7,281 barrels.

STAGE 38: Set plug @ 12,000' and perforate five 2' clusters from 11,829'-11,983'. Fraced with 3,990 gallons 15% HCL acid, 100,349 pounds 100 mesh sand, 101,502 pounds 40/70 mesh sand, and 101,991 pounds 30/50 mesh sand. Average rate 80 (BPM) @ 6,031 (PSI) pump pressure. Load to recover 8,022 barrels.

STAGE 39: Set plug @ 11,810' and perforate five 2' clusters from 11,639'-11,793'. Fraced with 3,990 gallons 15% HCL acid, 84,241 pounds 100 mesh sand, 102,361 pounds 40/70 mesh sand, and 102,116 pounds 30/50 mesh sand. Average rate 81 (BPM) @ 6,126 (PSI) pump pressure. Load to recover 7,123 barrels.

STAGE 40: Set plug @ 11,623' and perforate five 2' clusters from 11,449'-11,603'.

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

Current Status/OART STDBY TO FRAC STG 40	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	06:30	0.50	39STIM, Stim & Treat	DT	e	O	WAIT TO COMPLETE OPERATIONS ON ADJACENT WELL.
06:30	08:30	2.00	39STIM, Stim & Treat	ST	b	O	FRAC STAGE 36: WITH 3,990 GALS 15% HCL, 85,864 LBS 100 MESH SAND, 102,764 LBS 40/70 MESH SAND, 102,762 LBS 30/50 MESH. AVG RATE 79 BPM @ 6,001 PSI PUMP PRESS. FINAL 3,705 PSI, FRAC GRADIENT .87 LTR, 6,514 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	
08:30	10:30	2.00	39STIM, Stim & Treat	PF	c	O	STAGE 37 PERFS: RAN IN HOLE WITH 3-1/8" OD GUNS ON WIRELINE. PUMP DOWN GUNS AT 16 BPM, 4,300 PSI PUMP PRESSURE, 181 TBBLs PUMPED. SET PLUG @ 12,190' MD, PERFS 12,171'-73', 12,136'-38', 12,095'-97', 12,057'-59' AND 12,015'-17'. POOH, VERIFIED GUNS FIRED.
10:30	13:00	2.50	39STIM, Stim & Treat	DT	e	O	WAIT TO COMPLETE OPERATIONS ON ADJACENT WELL.
13:00	15:00	2.00	39STIM, Stim & Treat	ST	b	O	FRAC STAGE 37: WITH 3,990 GALS 15% HCL, 83,519 LBS 100 MESH SAND, 103,288 LBS 40/70 MESH SAND, 164,311 LBS 30/50 MESH. AVG RATE 81 BPM @ 6,056 PSI PUMP PRESS. FINAL 3,854 PSI, FRAC GRADIENT .89 LTR, 7,281 BBLs.
15:00	17:00	2.00	39STIM, Stim & Treat	PF	c	O	STAGE 38 PERFS: RAN IN HOLE WITH 3-1/8" OD GUNS ON WIRELINE. PUMP DOWN GUNS AT 16 BPM, 5,300 PSI PUMP PRESSURE, 179 TBBLs PUMPED. SET PLUG @ 12,000' MD, PERFS 11,981'-83', 11,943'-45', 11,905'-07', 11,867'-69' AND 11,829'-31'. POOH, VERIFIED GUNS FIRED.
17:00	19:00	2.00	39STIM, Stim & Treat	DT	e	O	WAIT TO COMPLETE OPERATIONS ON ADJACENT WELL.
19:00	21:00	2.00	39STIM, Stim & Treat	ST	b	O	FRAC STAGE 38: WITH 3,990 GALS 15% HCL, 100,349 LBS 100 MESH SAND, 101,502 LBS 40/70 MESH SAND, 101,991 LBS 30/50 MESH. AVG RATE 80 BPM @ 6,031 PSI PUMP PRESS. FINAL 3,750 PSI, FRAC GRADIENT .881 LTR, 8,022 BBLs.
21:00	23:00	2.00	39STIM, Stim & Treat	PF	c	O	STAGE 39 PERFS: RAN IN HOLE WITH 3-1/8" OD GUNS ON WIRELINE. PUMP DOWN GUNS AT 16 BPM, 4,200 PSI PUMP PRESSURE, 172 TBBLs PUMPED. SET PLUG @ 11,810' MD, PERFS 11,791'-93', 11,755'-57', 11,715'-17', 11,677'-79' AND 11,639'-41'. POOH, VERIFIED GUNS FIRED.
23:00	01:00	2.00	39STIM, Stim & Treat	DT	e	O	WAIT TO COMPLETE OPERATIONS ON ADJACENT WELL.
01:00	03:00	2.00	39STIM, Stim & Treat	ST	b	O	FRAC STAGE 39: WITH 3,990 GALS 15% HCL, 84,241 LBS 100 MESH SAND, 102,361 LBS 40/70 MESH SAND, 102,116 LBS 30/50 MESH. AVG RATE 81 BPM @ 6,126 PSI PUMP PRESS. FINAL 3,660 PSI, FRAC GRADIENT .87 LTR, 7,123 BBLs.
03:00	05:00	2.00	39STIM, Stim & Treat	PF	c	O	STAGE 40 PERFS: RAN IN HOLE WITH 3-1/8" OD GUNS ON WIRELINE. PUMP DOWN GUNS AT 16 BPM, 4,400 PSI PUMP PRESSURE, 159 TBBLs PUMPED. SET PLUG @ 11,623 MD, PERFS 11,601'-03', 11,563'-65', 11,522'-24', 11,487'-89' AND 11,449'-51'. POOH, VERIFIED GUNS FIRED.
05:00	06:00	1.00	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
06:00		Tail Gate	EXPLOSIVES,CHEMICALS,PPE

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

Perforations				
Time	Top (ftKB)	Btm (ftKB)	Current Status	Linked Zone
01:30	10,879.0	11,032.0		
17:00	11,069.0	11,223.0		
09:15	11,265.0	11,413.0		
04:00	11,449.0	11,603.0		
21:30	11,639.0	11,793.0		
16:00	11,829.0	11,983.0		
10:00	12,015.0	12,173.0		
03:00	12,209.0	12,363.0		
21:00	12,395.0	12,553.0		
14:45	12,589.0	12,743.0		
08:15	12,779.0	12,933.0		
04:00	12,969.0	13,117.0		
21:30	13,155.0	13,313.0		
17:15	13,353.0	13,499.0		



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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	
10:00	13,539.0	13,693.0			
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			
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

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	99,949.0	99,949.0	0.0



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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	PBDT (All) (ftKB)	TD All (TVD) (ftKB)

Primary Job Type 08-Completion	Secondary Job Type Original Completion
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) 237,204	Cum Field Est To Date (Cost) 3,528,323
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Daily Readings

Weather	Temperature (°F)	Road Condition	Rig Time (hr)
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Short Report
 STAGE 40: Fraced with 3,990 gallons 15% HCL acid, 83,925 pounds 100 mesh sand, 103,386 pounds 40/70 mesh sand, and 99,583 pounds 30/50 mesh sand. Average rate 80 (BPM) @ 5,917 (PSI) pump pressure. Load to recover 6,642 barrels.

STAGE 41: Set plug @ 11,430' and perforate five 2' clusters from 11,265'-11,413'. Fraced with 3,990 gallons 15% HCL acid, 85,588 pounds 100 mesh sand, 103,224 pounds 40/70 mesh sand, and 106,488 pounds 30/50 mesh sand. Average rate 80 (BPM) @ 5,982 (PSI) pump pressure. Load to recover 6,751 barrels.

STAGE 42: Set plug @ 11,240' and perforate five 2' clusters from 11,069'-11,223'. Fraced with 3,990 gallons 15% HCL acid, 91,700 pounds 100 mesh sand, 107,558 pounds 40/70 mesh sand, and 104,538 pounds 30/50 mesh sand. Average rate 79 (BPM) @ 6,108 (PSI) pump pressure. Load to recover 7,049 barrels.

STAGE 43: Set plug @ 11,050' and perforate five 2' clusters from 10,879'-11,032'.

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

Current Status/OART STDBY TO FRAC STG 43	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	07:30	1.50	39STIM, Stim & Treat	DT	e	O	WAIT TO COMPLETE OPERATIONS ON ADJACENT WELL.
07:30	09:30	2.00	39STIM, Stim & Treat	ST	b	O	FRAC STAGE 40: WITH 3,990 GALS 15% HCL, 83,925 LBS 100 MESH SAND, 103,386 LBS 40/70 MESH SAND, 99,583 LBS 30/50 MESH. AVG RATE 80 BPM @ 5,917 PSI PUMP PRESS. FINAL 3,686 PSI, FRAC GRADIENT .87 LTR, 6,642 BBLs.
09:30	11:30	2.00	39STIM, Stim & Treat	PF	c	O	STAGE 41 PERFS: RAN IN HOLE WITH 3-1/8" OD GUNS ON WIRELINE. PUMP DOWN GUNS AT 16 BPM, 4,400 PSI PUMP PRESSURE, 142 TBBLs PUMPED. SET PLUG @ 11,430' MD, PERFS 11,411'-13', 11,373'-75', 11,335'-37', 11,297'-99' AND 11,265'-67'. POOH, VERIFIED GUNS FIRED.
11:30	14:30	3.00	39STIM, Stim & Treat	DT	e	O	WAIT TO COMPLETE OPERATIONS ON ADJACENT WELL.



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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	PBDT (All) (ftKB)	TD All (TVD) (ftKB)

Time Log							Operation Summary
Start Time	End Time	Dur (hr)	Phase	Ops Code	Sub Code	Time Code	
14:30	16:30	2.00	39STIM, Stim & Treat	ST	b	O	FRAC STAGE 41: WITH 3,990 GALS 15% HCL, 85,588 LBS 100 MESH SAND, 103,224 LBS 40/70 MESH SAND, 106,488 LBS 30/50 MESH. AVG RATE 80 BPM @ 5,982 PSI PUMP PRESS. FINAL 3,776 PSI, FRAC GRADIENT .88 LTR, 6,751 BBLS.
16:30	18:30	2.00	39STIM, Stim & Treat	PF	c	O	STAGE 42 PERFS: RAN IN HOLE WITH 3-1/8" OD GUNS ON WIRELINE. PUMP DOWN GUNS AT 16 BPM, 4,500 PSI PUMP PRESSURE, 141 TBLS PUMPED. SET PLUG @ 11,240' MD, PERFS 11,221'-23', 11,183'-85', 11,145'-77', 11,107'-09' AND 11,069'-71'. POOH, VERIFIED GUNS FIRED.
18:30	20:30	2.00	39STIM, Stim & Treat	DT	e	O	WAIT TO COMPLETE OPERATIONS ON ADJACENT WELL.
20:30	23:30	3.00	39STIM, Stim & Treat	TR	t	O	2 SAND TRUCKS SLID OFF THE ROAD UNDER MUDDY CONDITONS. 1 TRUCK HAS WATER TRANSFER LINE PINCHED OFF. GETTING TRUCKS MOVED AND INSPECT TRANSFER LINE BEFORE STARTING FRAC.
23:30	01:30	2.00	39STIM, Stim & Treat	ST	b	O	FRAC STAGE 42: WITH 3,990 GALS 15% HCL, 91,700 LBS 100 MESH SAND, 107,558 LBS 40/70 MESH SAND, 104,538 LBS 30/50 MESH. AVG RATE 79 BPM @ 6,108 PSI PUMP PRESS. FINAL 3,966 PSI, FRAC GRADIENT .907 LTR, 7,049 BBLS.
01:30	03:30	2.00	39STIM, Stim & Treat	PF	c	O	STAGE 43 PERFS: RAN IN HOLE WITH 3-1/8" OD GUNS ON WIRELINE. PUMP DOWN GUNS AT 16 BPM, 4,100 PSI PUMP PRESSURE, 142 TBLS PUMPED. SET PLUG @ 11,050' MD, PERFS 11,030'-32', 10,993'-95', 10,955'-57', 10,917'-19' AND 10,879'-81'. POOH, VERIFIED GUNS FIRED.
03:30	06:00	2.50	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
01:30	10,879.0	11,032.0		
17:00	11,069.0	11,223.0		
09:15	11,265.0	11,413.0		
04:00	11,449.0	11,603.0		
21:30	11,639.0	11,793.0		
16:00	11,829.0	11,983.0		
10:00	12,015.0	12,173.0		
03:00	12,209.0	12,363.0		
21:00	12,395.0	12,553.0		
14:45	12,589.0	12,743.0		
08:15	12,779.0	12,933.0		
04:00	12,969.0	13,117.0		
21:30	13,155.0	13,313.0		
17:15	13,353.0	13,499.0		
10:00	13,539.0	13,693.0		
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		



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Perforations					
Time	Top (ftKB)	Btm (ftKB)	Current Status	Linked Zone	
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			
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

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	99,949.0	99,949.0	0.0