



# Partner Completion and Workover

Report # 17.0, Report Date: 10/18/2017

Well Name: UNIVERSITY 3-35 #104HB

API/UWI No. 42461405810000	Surface Legal Location A-U47; SEC. 11; BLK 4; UL SURVEY	Field Name SPRABERRY (TREND AREA)	Well License/Perm... 824982	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 7/19/2017 23:00	Large Rig Spud Date	Rig Release Date 8/7/2017 16:00	PBTD (All) (ftKB)	TD All (TVD) (ftKB)

Primary Job Type 08-Completion	Secondary Job Type Original Completion
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Objective  
COMPLETE WITH 53 STAGES

Contractor	Rig Number
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AFE Number DD.17.30781.CAP.CMP	Total AFE + Supp Amount (Cost) 5,445,000.00	Daily Field Est Total (Cost) 316,200	Cum Field Est To Date (Cost) 3,572,646
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## Daily Readings

Weather	Temperature (°F)	Road Condition	Rig Time (hr)
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Short Report

STAGE 40: Set plug @ 11,626' and perforate five 2' clusters from 11,451'-11,605'. Fraced with 4,000 gallons 15% HCL acid, 86,381 pounds 100 mesh sand, 102,652 pounds 40/70 mesh sand, and 100,983 pounds 30/50 mesh sand. Average rate 81 (BPM) @ 5,895 (PSI) pump pressure. Load to recover 7,565 barrels.

STAGE 41: Set plug @ 11,432' and perforate five 2' clusters from 11,263'-11,415'. Fraced with 4,000 gallons 15% HCL acid, 83,036 pounds 100 mesh sand, 102,021 pounds 40/70 mesh sand, and 101,155 pounds 30/50 mesh sand. Average rate 83 (BPM) @ 6,107 (PSI) pump pressure. Load to recover 7,528 barrels.

STAGE 42: Set plug @ 11,242' and perforate five 2' clusters from 11,069'-11,225'. Fraced with 4,000 gallons 15% HCL acid, 87,460 pounds 100 mesh sand, 92,168 pounds 40/70 mesh sand, and 102,970 pounds 30/50 mesh sand. Average rate 81 (BPM) @ 5,664 (PSI) pump pressure. Load to recover 7,281 barrels.

STAGE 43: Set plug @ 11,052' and perforate five 2' clusters from 10,881'-11,038'. Fraced with 4,000 gallons 15% HCL acid, 88,163 pounds 100 mesh sand, 104,308 pounds 40/70 mesh sand, and 102,378 pounds 30/50 mesh sand. Average rate 82 (BPM) @ 5,981 (PSI) pump pressure. Load to recover 7,556 barrels.

Running in hole with stage 44 plug and gun assembly at time of report.

Current Status/OART RIH STG 44	24 Hour Forecast 24 HR FRAC OPS
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## Daily Contacts

Job Contact DAVID FRANCIS, Foreman	Title Foreman	Phone Mobile
Job Contact CODY MOONEY, Consultant	Title Consultant	Phone Mobile
Job Contact DANIEL MOSHER, 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/C. MOONEY		
1	Operator	HUNT OIL COMPANY	DAVID FRANCIS		
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	PF	c	O	STAGE 40 PERFS: RAN IN HOLE WITH 3-1/8" OD GUNS ON WIRELINE. PUMP DOWN GUNS AT 16 BPM, 4,200 PSI PUMP PRESSURE, 140 TBBLS PUMPED. SET PLUG @ 11,626' MD, PERFS 11,603'-05', 11,565'-67', 11,527'-29', 11,490'-92' AND 11,451'-53'. POOH, VERIFIED GUNS FIRED.
06:30	09:00	2.50	39STIM, Stim & Treat	DT	e	O	WAIT TO COMPLETE OPERATIONS ON ADJACENT WELL.
09:00	12:00	3.00	39STIM, Stim & Treat	ST	b	O	FRAC STAGE 40: WITH 4,000 GALS 15% HCL, 86,381 LBS 100 MESH SAND, 102,652 LBS 40/70 MESH SAND, 100,983 LBS 30/50 MESH. AVG RATE 81 BPM @ 5,895 PSI PUMP PRESS. FINAL 3,850 PSI, FRAC GRADIENT .89 LTR, 7,565 BBLs.



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Original KB Elevation (ft) 2,731.60	KB-Tubing Head Distance (ft)	Original Spud/Spud Rig Date 7/19/2017 23:00	Large Rig Spud Date	Rig Release Date 8/7/2017 16:00	PBTD (All) (ftKB)	TD All (TVD) (ftKB)

Time Log							
Start Time	End Time	Dur (hr)	Phase	Ops Code	Sub Code	Time Code	Operation Summary
12:00	13:30	1.50	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, 4,300 PSI PUMP PRESSURE, 143 TBBLs PUMPED. SET PLUG @ 11,432' MD, PERFS 11,413'-15', 11,375'-77', 11,337'-39', 11,299'-301' AND 11,263'-65'. 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	18:00	2.50	39STIM, Stim & Treat	ST	b	O	FRAC STAGE 41: WITH 4,000 GALS 15% HCL, 83,036 LBS 100 MESH SAND, 102,021 LBS 40/70 MESH SAND, 101,155 LBS 30/50 MESH. AVG RATE 83 BPM @ 6,107 PSI PUMP PRESS. FINAL 4,082 PSI, FRAC GRADIENT .917 LTR, 7,528 BBLS.  NOTE: TRACER STAGE
18:00	20:00	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, 151 TBBLs PUMPED. SET PLUG @ 11,242' MD, PERFS 11,223'-25', 11,185'-87', 11,147'-49', 11,109'-11' AND 11,069'-71'. POOH, VERIFIED GUNS FIRED.
20:00	22:00	2.00	39STIM, Stim & Treat	DT	e	O	WAIT TO COMPLETE OPERATIONS ON ADJACENT WELL.
22:00	00:00	2.00	39STIM, Stim & Treat	ST	b	O	FRAC STAGE 42: WITH 4,000 GALS 15% HCL, 87,460 LBS 100 MESH SAND, 92,168 LBS 40/70 MESH SAND, 102,970 LBS 30/50 MESH. AVG RATE 81 BPM @ 5,664 PSI PUMP PRESS. FINAL 3,574 PSI, FRAC GRADIENT .857 LTR, 7,281 BBLS.
00:00	02:00	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, 4,000 PSI PUMP PRESSURE, 115 TBBLs PUMPED. SET PLUG @ 11,052' MD, PERFS 11,036'-38', 10,995'-97', 10,957'-59', 10,919'-21' AND 10,881'-83'. POOH, VERIFIED GUNS FIRED.
02:00	03:30	1.50	39STIM, Stim & Treat	DT	e	O	WAIT TO COMPLETE OPERATIONS ON ADJACENT WELL.
03:30	05:30	2.00	39STIM, Stim & Treat	ST	b	O	FRAC STAGE 43: WITH 4,000 GALS 15% HCL, 88,163 LBS 100 MESH SAND, 104,308 LBS 40/70 MESH SAND, 102,378 LBS 30/50 MESH. AVG RATE 82 BPM @ 5,981 PSI PUMP PRESS. FINAL 3,983 PSI, FRAC GRADIENT .906 LTR, 7,556 BBLS.
05:30	06:00	0.50	39STIM, Stim & Treat	PF	c	O	RIH W/ STG 44 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	PPE/OVERHEAD LOADS/PERF SAFETY/JOB FOCUS/COMM

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

Perforations				
Time	Top (ftKB)	Btm (ftKB)	Current Status	Linked Zone
02:00	10,121.0	10,275.0		
19:30	10,315.0	10,465.0		
14:45	10,501.0	10,655.0		
06:15	10,688.0	10,829.0		
01:00	10,881.0	11,038.0		
18:45	11,069.0	11,225.0		
12:00	11,263.0	11,415.0		
06:30	11,451.0	11,605.0		
23:15	11,641.0	11,795.0		
16:00	11,831.0	11,981.0		
09:00	12,021.0	12,175.0		
04:15	12,216.0	12,365.0		
22:15	12,401.0	12,557.0		
16:00	12,588.0	12,745.0		
10:30	12,781.0	12,935.0		



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Perforations					
Time	Top (ftKB)	Btm (ftKB)	Current Status	Linked Zone	
05:15	12,971.0	13,117.0			
22:30	13,161.0	13,315.0			
16:00	13,352.0	13,500.0			
10:30	13,541.0	13,692.0			
23:00	13,731.0	13,885.0			
16:00	13,921.0	14,072.0			
10:00	14,111.0	14,265.0			
05:00	14,301.0	14,450.0			
22:15	14,495.0	14,645.0			
14:00	14,681.0	14,830.0			
09:00	14,871.0	15,025.0			
02:00	15,061.0	15,215.0			
20:30	15,257.0	15,405.0			
13:00	15,441.0	15,595.0			
04:45	15,630.0	15,785.0			
22:45	15,821.0	15,975.0			
17:30	16,011.0	16,165.0			
10:15	16,203.0	16,355.0			
03:30	16,398.0	16,545.0			
19:00	16,581.0	16,735.0			
12:00	16,771.0	16,925.0			
06:00	16,961.0	17,112.0			
01:15	17,151.0	17,305.0			
10:30	17,346.0	17,495.0			
03:00	17,531.0	17,682.0			
21:15	17,721.0	17,875.0			
15:30	17,911.0	18,065.0			
10:15	18,101.0	18,255.0			
02:30	18,289.0	18,445.0			
16:00	18,481.0	18,635.0			
09:00	18,671.0	18,825.0			
00:30	18,861.0	19,015.0			

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
05:00	Primary Single Stage	Casing	Surface Casing, 1,461.0ftKB	DOWELL SCHLUMBERGER
08:05	Top Out	Casing	Surface Casing, 1,461.0ftKB	DOWELL SCHLUMBERGER
06:30	Primary Single Stage	Casing	Intermediate Casing, 5,058.0ftKB	DOWELL SCHLUMBERGER
19:02	Primary Single Stage	Casing	Production Casing, 19,219.0ftKB	DOWELL SCHLUMBERGER



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## Job Supplies

Supply Item Description FUEL	Unit Label	Total Received 107,823.0	Total Consumed 107,823.0	Inventory On Location 0.0
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Primary Job Type 08-Completion	Secondary Job Type Original Completion
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Objective  
COMPLETE WITH 53 STAGES

Contractor	Rig Number
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AFE Number DD.17.30781.CAP.CMP	Total AFE + Supp Amount (Cost) 5,445,000.00	Daily Field Est Total (Cost) 251,924	Cum Field Est To Date (Cost) 3,824,570
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## Daily Readings

Weather	Temperature (°F)	Road Condition	Rig Time (hr)
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Short Report

STAGE 44: Set plug @ 10,834' and perforate five 2' clusters from 10,688'-10,829'. Fraced with 4,000 gallons 15% HCL acid, 87,948 pounds 100 mesh sand, 102,447 pounds 40/70 mesh sand, and 104,720 pounds 30/50 mesh sand. Average rate 81 (BPM) @ 5,866 (PSI) pump pressure. Load to recover 7,488 barrels.

STAGE 45: Set plug @ 10,674' and perforate five 2' clusters from 10,501'-10,655'. Fraced with 4,000 gallons 15% HCL acid, 29,887 pounds 100 mesh sand, 146,556 pounds 40/70 mesh sand, and 641 pounds 30/50 mesh sand. Average rate 81 (BPM) @ 6,144 (PSI) pump pressure. Load to recover 6,361 barrels.

STAGE 46: Set plug @ 10,482' and perforate five 2' clusters from 10,315'-10,465'. Fraced with 4,000 gallons 15% HCL acid, 26,296 pounds 100 mesh sand, 143,960 pounds 40/70 mesh sand, and 115,185 pounds 30/50 mesh sand. Average rate 82 (BPM) @ 5,725 (PSI) pump pressure. Load to recover 7,504 barrels.

STAGE 47: Set plug @ 10,292' and perforate five 2' clusters from 10,121'-10,275'.

Fracing stage 47 at time of report.

Current Status/OART FRACING STG 47	24 Hour Forecast 24 HR FRAC OPS
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## Daily Contacts

Job Contact DANIEL MOSHER, Consultant	Title Consultant	Phone Mobile
Job Contact MARTY HAM, Foreman	Title Foreman	Phone Mobile
Job Contact JON WILLIAMSON, 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		
1	Contractor	SIERRA ENGINEERING	JON WILLIAMSON		
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		
1	Contractor	MOTIVATED CONSULTING, INC	DANIEL MOSHER		

## Time Log

Start Time	End Time	Dur (hr)	Phase	Ops Code	Sub Code	Time Code	Operation Summary
06:00	08:00	2.00	39STIM, Stim & Treat	PF	c	O	STAGE 44 PERFS: RAN IN HOLE WITH 3-1/8" OD GUNS ON WIRELINE. PUMP DOWN GUNS AT 16 BPM, 4,300 PSI PUMP PRESSURE, 106 TBBLs PUMPED. SET PLUG @ 10,934' MD, PERFS 10,827'-29', 10,788'-90', 10,758'-60', 10,723'-25' AND 10,688'-70'. POOH, VERIFIED GUNS FIRED.
08:00	11:30	3.50	39STIM, Stim & Treat	DT	e	O	WAIT TO COMPLETE OPERATIONS ON ADJACENT WELL.
11:30	13:30	2.00	39STIM, Stim & Treat	ST	b	O	FRAC STAGE 44: WITH 4,000 GALS 15% HCL, 87,948 LBS 100 MESH SAND, 102,447 LBS 40/70 MESH SAND, 104,720 LBS 30/50 MESH. AVG RATE 81 BPM @ 5,866 PSI PUMP PRESS. FINAL 3,693 PSI, FRAC GRADIENT .871 LTR, 7,488 BBLs.



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Original KB Elevation (ft) 2,731.60	KB-Tubing Head Distance (ft)	Original Spud/Spud Rig Date 7/19/2017 23:00	Large Rig Spud Date	Rig Release Date 8/7/2017 16:00	PBTD (All) (ftKB)	TD All (TVD) (ftKB)

Time Log							
Start Time	End Time	Dur (hr)	Phase	Ops Code	Sub Code	Time Code	Operation Summary
13:30	15:30	2.00	39STIM, Stim & Treat	PF	c	O	STAGE 45 PERFS: RAN IN HOLE WITH 3-1/8" OD GUNS ON WIRELINE. PUMP DOWN GUNS AT 16 BPM, 4,000 PSI PUMP PRESSURE, 107 TBBLs PUMPED. SET PLUG @ 10,674' MD, PERFS 10,653'-55', 10,615'-17', 10,575'-77', 10,539'-41' AND 10,501'-03'. POOH, VERIFIED GUNS FIRED.
15:30	17:30	2.00	39STIM, Stim & Treat	DT	e	O	WAIT TO COMPLETE OPERATIONS ON ADJACENT WELL.
17:30	19:30	2.00	39STIM, Stim & Treat	ST	b	O	FRAC STAGE 45: WITH 4,000 GALS 15% HCL, 29,887 LBS 100 MESH SAND, 146,556 LBS 40/70 MESH SAND, 641 LBS 30/50 MESH. AVG RATE 81 BPM @ 6,144 PSI PUMP PRESS. FINAL 3,444 PSI, FRAC GRADIENT .84 LTR, 6,361 BBLs.
19:30	21:30	2.00	39STIM, Stim & Treat	PF	c	O	STAGE 46 PERFS: RAN IN HOLE WITH 3-1/8" OD GUNS ON WIRELINE. PUMP DOWN GUNS AT 16 BPM, 3,900 PSI PUMP PRESSURE, 95 TBBLs PUMPED. SET PLUG @ 10,482' MD, PERFS 10,463'-65', 10,425'-27', 10,387'-89', 10,345'-47' AND 10,315'-17'. POOH, VERIFIED GUNS FIRED.
21:30	00:00	2.50	39STIM, Stim & Treat	DT	e	O	WAIT TO COMPLETE OPERATIONS ON ADJACENT WELL.
00:00	02:00	2.00	39STIM, Stim & Treat	ST	b	O	FRAC STAGE 46: WITH 4,000 GALS 15% HCL, 26,296 LBS 100 MESH SAND, 143,960 LBS 40/70 MESH SAND, 115,185 LBS 30/50 MESH. AVG RATE 82 BPM @ 5,725 PSI PUMP PRESS. FINAL 3,409 PSI, FRAC GRADIENT .84 LTR, 7,504 BBLs.
02:00	04:00	2.00	39STIM, Stim & Treat	PF	c	O	STAGE 47 PERFS: RAN IN HOLE WITH 3-1/8" OD GUNS ON WIRELINE. PUMP DOWN GUNS AT 16 BPM, 3,800 PSI PUMP PRESSURE, 85 TBBLs PUMPED. SET PLUG @ 10,292' MD, PERFS 10,273'-75', 10,235'-37', 10,197'-99', 10,159'-61' AND 10,121'-23'. POOH, VERIFIED GUNS FIRED.
04:00	05:30	1.50	39STIM, Stim & Treat	DT	e	O	WAIT TO COMPLETE OPERATIONS ON ADJACENT WELL.
05:30	06:00	0.50	39STIM, Stim & Treat	ST	b	O	FRACING STG 47 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

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

Perforations				
Time	Top (ftKB)	Btm (ftKB)	Current Status	Linked Zone
02:00	10,121.0	10,275.0		
19:30	10,315.0	10,465.0		
14:45	10,501.0	10,655.0		
06:15	10,688.0	10,829.0		
01:00	10,881.0	11,038.0		
18:45	11,069.0	11,225.0		
12:00	11,263.0	11,415.0		
06:30	11,451.0	11,605.0		
23:15	11,641.0	11,795.0		
16:00	11,831.0	11,981.0		
09:00	12,021.0	12,175.0		
04:15	12,216.0	12,365.0		
22:15	12,401.0	12,557.0		
16:00	12,588.0	12,745.0		
10:30	12,781.0	12,935.0		
05:15	12,971.0	13,117.0		
22:30	13,161.0	13,315.0		
16:00	13,352.0	13,500.0		
10:30	13,541.0	13,692.0		
23:00	13,731.0	13,885.0		
16:00	13,921.0	14,072.0		



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**Perforations**

Time	Top (ftKB)	Btm (ftKB)	Current Status	Linked Zone
10:00	14,111.0	14,265.0		
05:00	14,301.0	14,450.0		
22:15	14,495.0	14,645.0		
14:00	14,681.0	14,830.0		
09:00	14,871.0	15,025.0		
02:00	15,061.0	15,215.0		
20:30	15,257.0	15,405.0		
13:00	15,441.0	15,595.0		
04:45	15,630.0	15,785.0		
22:45	15,821.0	15,975.0		
17:30	16,011.0	16,165.0		
10:15	16,203.0	16,355.0		
03:30	16,398.0	16,545.0		
19:00	16,581.0	16,735.0		
12:00	16,771.0	16,925.0		
06:00	16,961.0	17,112.0		
01:15	17,151.0	17,305.0		
10:30	17,346.0	17,495.0		
03:00	17,531.0	17,682.0		
21:15	17,721.0	17,875.0		
15:30	17,911.0	18,065.0		
10:15	18,101.0	18,255.0		
02:30	18,289.0	18,445.0		
16:00	18,481.0	18,635.0		
09:00	18,671.0	18,825.0		
00:30	18,861.0	19,015.0		

**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
05:00	Primary Single Stage	Casing	Surface Casing, 1,461.0ftKB	DOWELL SCHLUMBERGER
08:05	Top Out	Casing	Surface Casing, 1,461.0ftKB	DOWELL SCHLUMBERGER
06:30	Primary Single Stage	Casing	Intermediate Casing, 5,058.0ftKB	DOWELL SCHLUMBERGER
19:02	Primary Single Stage	Casing	Production Casing, 19,219.0ftKB	DOWELL SCHLUMBERGER

**Job Supplies**

Supply Item Description	Unit Label	Total Received	Total Consumed	Inventory On Location
FUEL		107,823.0	107,823.0	0.0