



# Partner Completion and Workover

Report # 18.0, Report Date: 10/19/2017

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) 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 @ 10,862' and perforate five 2' clusters from 10,691'-10,845'. 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 @ 10,862' MD, PERFS 10,843'-45', 10,801'-03', 10,767'-69', 10,729'-31' AND 10,691'-93'. 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
06:00		Tail Gate	COMM BETWEEN COMPANIES/PPE/LOGISTICS/UTILIZING DOWNTIME/HOUSEKEEPING

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

Perforations				
Time	Top (ftKB)	Btm (ftKB)	Current Status	Linked Zone
00:30	9,551.0	9,700.0		
17:30	9,741.0	9,895.0		
10:15	9,931.0	10,087.0		
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	10,691.0	10,845.0		
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		



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**Perforations**

Time	Top (ftKB)	Btm (ftKB)	Current Status	Linked Zone
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
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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		115,347.0	115,347.0	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) 308,714	Cum Field Est To Date (Cost) 4,133,284
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## Daily Readings

Weather	Temperature (°F)	Road Condition	Rig Time (hr)
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Short Report  
STAGE 47: Fraced with 4,000 gallons 15% HCL acid, 29,612 pounds 100 mesh sand, 147,225 pounds 40/70 mesh sand, and 115,812 pounds 30/50 mesh sand. Average rate 81 (BPM) @ 5,771 (PSI) pump pressure. Load to recover 8,048 barrels.  
STAGE 48: Set plug @ 10,102' and perforate five 2' clusters from 9,931'-10,087'. Fraced with 4,000 gallons 15% HCL acid, 28,591 pounds 100 mesh sand, 149,426 pounds 40/70 mesh sand, and 118,631 pounds 30/50 mesh sand. Average rate 81 (BPM) @ 5,856 (PSI) pump pressure. Load to recover 7,943 barrels.  
STAGE 49: Set plug @ 9,912' and perforate five 2' clusters from 9,741'-9,895'. Fraced with 4,000 gallons 15% HCL acid, 30,082 pounds 100 mesh sand, 143,606 pounds 40/70 mesh sand, and 114,292 pounds 30/50 mesh sand. Average rate 83 (BPM) @ 5,590 (PSI) pump pressure. Load to recover 7,785 barrels.  
STAGE 50: Set plug @ 9,715' and perforate five 2' clusters from 9,551'-9,700'. Fraced with 4,000 gallons 15% HCL acid, 31,896 pounds 100 mesh sand, 148,152 pounds 40/70 mesh sand, and 115,352 pounds 30/50 mesh sand. Average rate 82 (BPM) @ 5,515 (PSI) pump pressure. Load to recover 7,175 barrels.  
Wireline stage 51 at time of report.

Current Status/OART WRLN STG 51	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	07:30	1.50	39STIM, Stim & Treat	DT	e	O	WAIT ON SAND DELIVERY
07:30	09:30	2.00	39STIM, Stim & Treat	ST	b	O	FRAC STAGE 47: WITH 4,000 GALS 15% HCL, 29,612 LBS 100 MESH SAND, 147,225 LBS 40/70 MESH SAND, 115,812 LBS 30/50 MESH. AVG RATE 81 BPM @ 5,771 PSI PUMP PRESS. FINAL 3,757 PSI, FRAC GRADIENT .879 LTR, 8,048 BBLS.
09:30	11:30	2.00	39STIM, Stim & Treat	PF	c	O	STAGE 48 PERFS: RAN IN HOLE WITH 3-1/8" OD GUNS ON WIRELINE. PUMP DOWN GUNS AT 16 BPM, 4,100 PSI PUMP PRESSURE, 78 TBBLs PUMPED. SET PLUG @ 10,102' MD, PERFS 10,085'-87', 10,045'-47', 10,007'-09', 9,969'-71' AND 9,931'-33'. 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 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							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 48: WITH 4,000 GALS 15% HCL, 28,591 LBS 100 MESH SAND, 149,426 LBS 40/70 MESH SAND, 118,631 LBS 30/50 MESH. AVG RATE 81 BPM @ 5,856 PSI PUMP PRESS. FINAL 3,585 PSI, FRAC GRADIENT .859 LTR, 7,943 BBLS.
16:30	18:30	2.00	39STIM, Stim & Treat	PF	c	O	STAGE 49 PERFS: RAN IN HOLE WITH 3-1/8" OD GUNS ON WIRELINE. PUMP DOWN GUNS AT 16 BPM, 4,000 PSI PUMP PRESSURE, 72 TBBS PUMPED. SET PLUG @ 9,912' MD, PERFS 9,893'-95', 9,849'-51', 9,817'-19', 9,779'-81' AND 9,741'-43'. POOH, VERIFIED GUNS FIRED.
18:30	22:30	4.00	39STIM, Stim & Treat	DT	e	O	WAIT TO COMPLETE OPERATIONS ON ADJACENT WELL.
22:30	00:30	2.00	39STIM, Stim & Treat	ST	b	O	FRAC STAGE 49: WITH 4,000 GALS 15% HCL, 30,082 LBS 100 MESH SAND, 143,606 LBS 40/70 MESH SAND, 114,292 LBS 30/50 MESH. AVG RATE 83 BPM @ 5,590 PSI PUMP PRESS. FINAL 3,645 PSI, FRAC GRADIENT .87 LTR, 7,785 BBLS.
00:30	02:00	1.50	39STIM, Stim & Treat	PF	c	O	STAGE 50 PERFS: RAN IN HOLE WITH 3-1/8" OD GUNS ON WIRELINE. PUMP DOWN GUNS AT 16 BPM, 3,900 PSI PUMP PRESSURE, 60 TBBS PUMPED. SET PLUG @ 9,715' MD, PERFS 9,698'-700', 9,665'-67', 9,627'-29', 9,593'-95' AND 9,551'-53'. 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 50: WITH 4,000 GALS 15% HCL, 31,896 LBS 100 MESH SAND, 148,152 LBS 40/70 MESH SAND, 115,352 LBS 30/50 MESH. AVG RATE 82 BPM @ 5,515 PSI PUMP PRESS. FINAL 3,543 PSI, FRAC GRADIENT .85 LTR, 7,175 BBLS.
05:30	06:00	0.50	39STIM, Stim & Treat	PF	c	O	WIRELINE STG 51 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
00:30	9,551.0	9,700.0		
17:30	9,741.0	9,895.0		
10:15	9,931.0	10,087.0		
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	10,691.0	10,845.0		
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		



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**Perforations**

Time	Top (ftKB)	Btm (ftKB)	Current Status	Linked Zone
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
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**Stimulation Intervals**

Interval Number	Type	Top (ftKB)	Btm (ftKB)
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**Tubing Run**

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

Pull Time	Tubing Description	Set Depth (ftKB)	String Max Nominal OD (in)	Weight/Length (lb/ft)	String Grade
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**Other in Hole Run (Bridge Plugs, etc)**

Run Time	Des	OD (in)	Top (ftKB)	Btm (ftKB)
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**Other in Hole Pulled (Bridge Plugs, etc)**

Pull Time	Des	Top (ftKB)	Btm (ftKB)	OD (in)
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**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		115,347.0	115,347.0	0.0