



# Partner Completion and Workover

Report # 13.0, Report Date: 10/14/2017

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) 251,675	Cum Field Est To Date (Cost) 2,604,876
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## Daily Readings

Weather	Temperature (°F)	Road Condition	Rig Time (hr)
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Short Report  
STAGE 29: Set plug @ 13,712' and perforate five 2' clusters from 13,541'-13,692'. Fraced with 4,000 gallons 15% HCL acid, 29,220 pounds 100 mesh sand, 148,287 pounds 40/70 mesh sand, and 118,268 pounds 30/50 mesh sand. Average rate 82 (BPM) @ 6,067 (PSI) pump pressure. Load to recover 10,037 barrels.

STAGE 30: Set plug @ 13,515' and perforate five 2' clusters from 13,352'-13,500'. Fraced with 4,000 gallons 15% HCL acid, 29,949 pounds 100 mesh sand, 145,751 pounds 40/70 mesh sand, and 87,947 pounds 30/50 mesh sand. Average rate 82 (BPM) @ 6,401 (PSI) pump pressure. Load to recover 7,481 barrels.

STAGE 31: Set plug @ 13,332' and perforate five 2' clusters from 13,161'-13,315'. Fraced with 4,000 gallons 15% HCL acid, 33,183 pounds 100 mesh sand, 148,261 pounds 40/70 mesh sand, and 117,420 pounds 30/50 mesh sand. Average rate 82 (BPM) @ 6,035 (PSI) pump pressure. Load to recover 7,714 barrels.

STAGE 32: Set plug @ 13,142' and perforate five 2' clusters from 12,971'-13,117'.

Pulling plug and gun assembly out of hole at time of report.

Current Status/OART POOH STG 32	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	10:30	4.50	39STIM, Stim & Treat	TR	p	O	FOLLOWING THE SCREENOUT ON FLUSH WE FLOWED THE WELL BACK 2 CSG VOL. 615 BBLS GOT THE BALL BACK. BROUGHT PUMPS ONLINE AT 2 BPM AND FOLLOWED HUNT SCREEN OUT PROCEDURE UNTIL WELL WAS FULLY FLUSHED AT 50 BPM @ 4,850 PSI. RESUMING NORMAL FRAC OPS.
10:30	12:30	2.00	39STIM, Stim & Treat	PF	c	O	STAGE 29 PERFS: RAN IN HOLE WITH 3-1/8" OD GUNS ON WIRELINE. PUMP DOWN GUNS AT 16 BPM, 4,300 PSI PUMP PRESSURE, 255 TBBLs PUMPED. SET PLUG @ 13,712' MD, PERFS 13,690'-92', 13,655'-57', 13,617'-19', 13,579'-81' AND 13,541'-43'. POOH, VERIFIED GUNS FIRED.
12:30	13:30	1.00	39STIM, Stim & Treat	DT	e	O	WAITING 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	
13:30	15:30	2.00	39STIM, Stim & Treat	ST	b	O	FRAC STAGE 29: WITH 4,000 GALS 15% HCL, 29,220 LBS 100 MESH SAND, 148,287 LBS 40/70 MESH SAND, 118,268 LBS 30/50 MESH. AVG RATE 82 BPM @ 6,067 PSI PUMP PRESS. FINAL 3,802 PSI, FRAC GRADIENT .884 LTR, 10,037 BBLs.
15:30	17:30	2.00	39STIM, Stim & Treat	PF	c	O	STAGE 30 PERFS: RAN IN HOLE WITH 3-1/8" OD GUNS ON WIRELINE. PUMP DOWN GUNS AT 16 BPM, 4,300 PSI PUMP PRESSURE, 250 TBBLs PUMPED. SET PLUG @ 13,515' MD, PERFS 13,498'-500', 13,465'-67', 13,427'-29', 13,387'-89' AND 13,352'-54'. POOH, VERIFIED GUNS FIRED.
17:30	19:00	1.50	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 30: WITH 4,000 GALS 15% HCL, 29,949 LBS 100 MESH SAND, 145,751 LBS 40/70 MESH SAND, 87,947 LBS 30/50 MESH. AVG RATE 82 BPM @ 6,401 PSI PUMP PRESS. FINAL 3,772 PSI, FRAC GRADIENT .881 LTR, 7,481 BBLs.  NOTE: TRACER STAGE
21:00	23:30	2.50	39STIM, Stim & Treat	PF	c	O	STAGE 31 PERFS: RAN IN HOLE WITH 3-1/8" OD GUNS ON WIRELINE. PUMP DOWN GUNS AT 16 BPM, 4,800 PSI PUMP PRESSURE, 218 TBBLs PUMPED. SET PLUG @ 13,332' MD, PERFS 13,313'-15', 13,275'-77', 13,237'-39', 13,199'-201' AND 13,161'-63'. POOH, VERIFIED GUNS FIRED.
23:30	02:30	3.00	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 31: WITH 4,000 GALS 15% HCL, 33,183 LBS 100 MESH SAND, 148,261 LBS 40/70 MESH SAND, 117,420 LBS 30/50 MESH. AVG RATE 82 BPM @ 6,035 PSI PUMP PRESS. FINAL 3,667 PSI, FRAC GRADIENT .867 LTR, 7,714 BBLs.
04:30	06:00	1.50	39STIM, Stim & Treat	PF	c	O	STAGE 32 PERFS: RAN IN HOLE WITH 3-1/8" OD GUNS ON WIRELINE. PUMP DOWN GUNS AT 16 BPM, 4,300 PSI PUMP PRESSURE, 214 TBBLs PUMPED. SET PLUG @ 13,142' MD, PERFS 13,115'-17', 13,085'-87', 13,047'-49', 13,009'-11' AND 12,971'-73'. POOH, VERIFIED GUNS FIRED.

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	HIGH PRESSURE LINES, JOB FOCUS PPE, EXPLOSIVES ON LOCATION, TRIP HAZARDS, EYES ON TASK, LINE OF FIRE, HOUSEKEEPING

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

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



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**Perforations**

Time	Top (ftKB)	Btm (ftKB)	Current Status	Linked Zone
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		
15:00	19,073.0			

**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		81,465.0	81,465.0	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) 172,375	Cum Field Est To Date (Cost) 2,777,251
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## Daily Readings

Weather	Temperature (°F)	Road Condition	Rig Time (hr)
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Short Report  
STAGE 32: Fraced with 4,000 gallons 15% HCL acid, 29,360 pounds 100 mesh sand, 146,606 pounds 40/70 mesh sand, and 117,505 pounds 30/50 mesh sand. Average rate 81 (BPM) @ 6,205 (PSI) pump pressure. Load to recover 8,456 barrels.

STAGE 33: Set plug @ 12,955' and perforate five 2' clusters from 12,781'-12,935'. Fraced with 4,000 gallons 15% HCL acid, 27,672 pounds 100 mesh sand, 147,853 pounds 40/70 mesh sand, and 118,689 pounds 30/50 mesh sand. Average rate 82 (BPM) @ 5,757 (PSI) pump pressure. Load to recover 7,209 barrels.

STAGE 34: Set plug @ 12,762' and perforate five 2' clusters from 12,588'-12745'.

Secured well and standby for blender repairs to resume job at time of report.

Current Status/OART WAIT ON BLENDER REPAIRS	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	QUICK 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	08:00	2.00	39STIM, Stim & Treat	DT	e	O	WAITING TO COMPLETE OPERATIONS ON ADJACENT WELL
08:00	10:00	2.00	39STIM, Stim & Treat	ST	b	O	FRAC STAGE 32: WITH 4,000 GALS 15% HCL, 29,360 LBS 100 MESH SAND, 146,606 LBS 40/70 MESH SAND, 117,505 LBS 30/50 MESH. AVG RATE 81 BPM @ 6,205 PSI PUMP PRESS. FINAL 3,672 PSI, FRAC GRADIENT .869 LTR, 8,456 BBLS.
10:00	12:00	2.00	39STIM, Stim & Treat	PF	c	O	STAGE 33 PERFS: RAN IN HOLE WITH 3-1/8" OD GUNS ON WIRELINE. PUMP DOWN GUNS AT 16 BPM, 4,500 PSI PUMP PRESSURE, 215 TBBLs PUMPED. SET PLUG @ 12,955' MD, PERFS 12,933'-35', 12,895'-97', 12,857'-59', 12,815'-17' AND 12,781'-83'. POOH, VERIFIED GUNS FIRED.
12:00	14:00	2.00	39STIM, Stim & Treat	DT	e	O	WAIT TO COMPLETE OPERATIONS ON ADJACENT WELL.
14:00	16:00	2.00	39STIM, Stim & Treat	ST	b	O	FRAC STAGE 33: WITH 4,000 GALS 15% HCL, 27,672 LBS 100 MESH SAND, 147,853 LBS 40/70 MESH SAND, 118,689 LBS 30/50 MESH. AVG RATE 82 BPM @ 5,757 PSI PUMP PRESS. FINAL 3,619 PSI, FRAC GRADIENT .863 LTR, 7,209 BBLS.



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Time Log							
Start Time	End Time	Dur (hr)	Phase	Ops Code	Sub Code	Time Code	Operation Summary
16:00	18:00	2.00	39STIM, Stim & Treat	PF	c	O	STAGE 34 PERFS: RAN IN HOLE WITH 3-1/8" OD GUNS ON WIRELINE. PUMP DOWN GUNS AT 16 BPM, 4,100 PSI PUMP PRESSURE, 208 TBBLs PUMPED. SET PLUG @ 12,762' MD, PERFS 12,743'-45', 12,705'-07', 12,667'-69', 12,629'-31' AND 12,588'-90'. POOH, VERIFIED GUNS FIRED.
18:00	06:00	12.00	39STIM, Stim & Treat	TR	a	O	STANDBY FOR BLENDER REPAIRS AND COMPLETE STAGE ON ADJACENT WELL 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
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		
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		
15:00	19,073.0			

Stimulations Summary		
Type	Subtype	Stim/Treat Company

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 FUEL	Unit Label	Total Received 81,465.0	Total Consumed 81,465.0	Inventory On Location 0.0
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