



# Partner Completion and Workover

Report # 14.0, Report Date: 10/15/2017

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) 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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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
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
06:00		Tail Gate	HIGH PRESSURE LINES, JOB FOCUS PPE, EXPLOSIVES ON LOCATION, TRIP HAZARDS, EYES ON TASK, LINE OF FIRE, HOUSEKEEPING, HOT WORK WELDING.

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

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



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## 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 FUEL	Unit Label	Total Received 85,490.0	Total Consumed 85,490.0	Inventory On Location 0.0
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# Partner Completion and Workover

Report # 15.0, Report Date: 10/16/2017

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) 168,875	Cum Field Est To Date (Cost) 2,946,126
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**Daily Readings**

Weather	Temperature (°F)	Road Condition	Rig Time (hr)
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Short Report  
STAGE 34: Fraced with 4,000 gallons 15% HCL acid, 29,749 pounds 100 mesh sand, 147,425 pounds 40/70 mesh sand, and 113,156 pounds 30/50 mesh sand. Average rate 81 (BPM) @ 5,784 (PSI) pump pressure. Load to recover 7,784 barrels.

STAGE 35: Set plug @ 12,572' and perforate five 2' clusters from 12,401'-12,557'. Fraced with 4,000 gallons 15% HCL acid, 30,389 pounds 100 mesh sand, 147,762 pounds 40/70 mesh sand, and 81,097 pounds 30/50 mesh sand. Average rate 82 (BPM) @ 5,978 (PSI) pump pressure. Load to recover 7,294 barrels.

STAGE 36: Set plug @ 12,382' and perforate five 2' clusters from 12,216'-12,365'.

Standby to frac at time of report.

Current Status/OART STDBY TO FRAC STG 36	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	14:00	8.00	39STIM, Stim & Treat	TR	a	O	REPAIRING FRAC EQUIPMENT, WELDING MANIFOLD ON BLENDER.
14:00	15:00	1.00	39STIM, Stim & Treat	DT	d	O	SHUT DOWN FOR WEATHER
15:00	19:00	4.00	39STIM, Stim & Treat	DT	e	O	WAITING TO COMPLETE OPERATIONS ON ADJACENT WELL.
19:00	21:00	2.00	39STIM, Stim & Treat	ST	b	O	FRAC STAGE 34: WITH 4,000 GALS 15% HCL, 29,749 LBS 100 MESH SAND, 147,425 LBS 40/70 MESH SAND, 113,156 LBS 30/50 MESH. AVG RATE 81 BPM @ 5,784 PSI PUMP PRESS. FINAL 3,468 PSI, FRAC GRADIENT .845 LTR, 7,784 BBLS.
21:00	23:00	2.00	39STIM, Stim & Treat	PF	c	O	STAGE 35 PERFS: RAN IN HOLE WITH 3-1/8" OD GUNS ON WIRELINE. PUMP DOWN GUNS AT 16 BPM, 4,300 PSI PUMP PRESSURE, 197 TBBLs PUMPED. SET PLUG @ 12,572' MD, PERFS 12,555'-57', 12,515'-17', 12,477'-79', 12,439'-41' AND 12,401'-03'. POOH, VERIFIED GUNS FIRED.
23:00	00:30	1.50	39STIM, Stim & Treat	DT	e	O	WAIT TO COMPLETE OPERATIONS ON ADJACENT WELL.



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Time Log							Operation Summary
Start Time	End Time	Dur (hr)	Phase	Ops Code	Sub Code	Time Code	
00:30	02:30	2.00	39STIM, Stim & Treat	ST	b	O	FRAC STAGE 35: WITH 4,000 GALS 15% HCL, 30,389 LBS 100 MESH SAND, 147,762 LBS 40/70 MESH SAND, 81,097 LBS 30/50 MESH. AVG RATE 82 BPM @ 5,978 PSI PUMP PRESS. FINAL 3,306 PSI, FRAC GRADIENT .826 LTR, 7,294 BBLS.
02:30	04:30	2.00	39STIM, Stim & Treat	PF	c	O	STAGE 36 PERFS: RAN IN HOLE WITH 3-1/8" OD GUNS ON WIRELINE. PUMP DOWN GUNS AT 16 BPM, 4,600 PSI PUMP PRESSURE, 192 TBLS PUMPED. SET PLUG @ 12,382' MD, PERFS 12,363'-65', 12,328'-30', 12,287'-89', 12,249'-51' AND 12,216'-18'. 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
04:15	12,216.0	12,365.0		
22:15	12,401.0	12,557.0		
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12:00	16,771.0	16,925.0		
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16:00	18,481.0	18,635.0		
09:00	18,671.0	18,825.0		
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## 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 FUEL	Unit Label	Total Received 85,490.0	Total Consumed 85,490.0	Inventory On Location 0.0
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