



Partner Completion and Workover

Report # 14.0, Report Date: 11/12/2017

Well Name: UNIVERSITY 3-35 #107HB

API/UWI No. 42461406370000	Surface Legal Location A-U47; SEC. 11; BLK 4; UL SURVEY	Field Name SPRABERRY (TREND AREA)	Well License/Perm... 827593	State/Province TEXAS	County UPTON	Well Config Horizontal
Original KB Elevation (ft) 2,713.60	KB-Tubing Head Distance (ft)	Original Spud/Spud Rig Date 9/16/2017 12:15	Large Rig Spud Date	Rig Release Date 10/3/2017 22:00	PBTD (All) (ftKB)	TD All (TVD) (ftKB)

Primary Job Type 08-Completion	Secondary Job Type Original Completion
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Objective
COMPLETE WITH 42 STAGE FRAC OPERATION

Contractor HALLIBURTON	Rig Number RANGERS
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AFE Number DD.17.30832.CAP.CMP	Total AFE + Supp Amount (Cost) 5,445,000.00	Daily Field Est Total (Cost) 213,062	Cum Field Est To Date (Cost) 1,293,195
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Daily Readings

Weather	Temperature (°F)	Road Condition	Rig Time (hr)
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Short Report
 STAGE 13: Fraced with 4,000 gallons 15% HCL acid, 88,250 pounds 100 mesh sand, 125,200 pounds 40/70 mesh sand and 103,000 pounds 30/50 mesh sand. Average rate 83 (BPM) @ 6,497 (PSI) pump pressure. Load to recover 7,751 barrels. STAGE 14: Set plug @ 15,507' and perforate five 2' clusters from 15,273'-15,494'. Fraced with 4,000 gallons 15% HCL acid, 88,250 pounds 100 mesh sand, 103,000 pounds 40/70 mesh sand and 103,000 pounds 30/50 mesh sand. Average rate 85 (BPM) @ 7,013 (PSI) pump pressure. Load to recover 8,069 barrels. STAGE 15: Set plug @ 15,235' and perforate five 2' clusters from 15,033'-15,222'. Fraced with 4,000 gallons 15% HCL acid, 88,250 pounds 100 mesh sand, 103,000 pounds 40/70 mesh sand and 103,000 pounds 30/50 mesh sand. Average rate 85 (BPM) @ 6,858 (PSI) pump pressure. Load to recover 7,732 barrels. STAGE 16: Set plug @ 14,980' and perforate five 2' clusters from 14,785'-14,963'. Waiting to complete operations on adjacent wells.

Current Status/OART STBY TO FRAC STG 16	24 Hour Forecast 24 HR FRAC OPS
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Daily Contacts

Job Contact MARTY HAM, Foreman	Title Foreman	Phone Mobile
Job Contact CODY MOONEY, 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	B.WILSON/C. MOONEY		
1	Operator	HUNT OIL COMPANY	DAVID FRANCIS		
8	Service	KLX ENERGY SERVICES	ELINE		
2	Service	PREMIER FLOW CONTROL	FLOWBACK		
16	Service	HALLIBURTON	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	07:00	1.00	39STIM, Stim & Treat	ST	b	O	FRAC STAGE 13: WITH 4,000 GALS 15% HCL, 88,250 LBS 100 MESH SAND, 125,200 LBS 40/70 MESH SAND, 103,000 LBS 30/50 MESH. AVG RATE 83 BPM @ 6,497 PSI PUMP PRESS. FINAL 3,502 PSI, FRAC GRADIENT .85 LTR 7,751 BBLs.
07:00	09:00	2.00	39STIM, Stim & Treat	PF	c	O	STAGE 14 PERFS: RAN IN HOLE WITH 3-1/8" OD GUNS ON WIRELINE. PUMP DOWN GUNS AT 16 BPM, 4,300 PSI PUMP PRESSURE, 375 BBLs PUMPED. SET PLUG @ 15,507' MD, PERFS 15,492'-94', 15,436'-38', 15,387'-89', 15,319'-21' AND 15,273'-75'. POOH, VERIFIED GUNS FIRED.
09:00	15:30	6.50	39STIM, Stim & Treat	DT	e	O	WAITING TO COMPLETE OPERATIONS ON ADJACENT WELL.
15:30	17:30	2.00	39STIM, Stim & Treat	ST	b	O	FRAC STAGE 14: WITH 4,000 GALS 15% HCL, 88,250 LBS 100 MESH SAND, 125,200 LBS 40/70 MESH SAND, 103,000 LBS 30/50 MESH. AVG RATE 85 BPM @ 7,013 PSI PUMP PRESS. FINAL 3,801 PSI, FRAC GRADIENT .88 LTR 8,069 BBLs.
17:30	19:30	2.00	39STIM, Stim & Treat	PF	c	O	STAGE 15 PERFS: RAN IN HOLE WITH 3-1/8" OD GUNS ON WIRELINE. PUMP DOWN GUNS AT 16 BPM, 4,000 PSI PUMP PRESSURE, 342 BBLs PUMPED. SET PLUG @ 15,235' MD, PERFS 15,220'-22', 15,160'-62', 15,101'-03', 15,069'-71' AND 15,033'-35'. POOH, VERIFIED GUNS FIRED.



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Original KB Elevation (ft) 2,713.60	KB-Tubing Head Distance (ft)	Original Spud/Spud Rig Date 9/16/2017 12:15	Large Rig Spud Date	Rig Release Date 10/3/2017 22:00	PBTD (All) (ftKB)	TD All (TVD) (ftKB)

Time Log							Operation Summary
Start Time	End Time	Dur (hr)	Phase	Ops Code	Sub Code	Time Code	
19:30	01:00	5.50	39STIM, Stim & Treat	DT	e	O	WAITING TO COMPLETE OPERATIONS ON ADJACENT WELL.
01:00	03:00	2.00	39STIM, Stim & Treat	ST	b	O	FRAC STAGE 15: WITH 4,000 GALS 15% HCL, 88,250 LBS 100 MESH SAND, 125,200 LBS 40/70 MESH SAND, 103,000 LBS 30/50 MESH. AVG RATE 85 BPM @ 6,858 PSI PUMP PRESS. FINAL 3,774 PSI, FRAC GRADIENT .88 LTR 7,732 BBLs.
03:00	05:00	2.00	39STIM, Stim & Treat	PF	c	O	STAGE 16 PERFS: RAN IN HOLE WITH 3-1/8" OD GUNS ON WIRELINE. PUMP DOWN GUNS AT 16 BPM, 4,000 PSI PUMP PRESSURE, 342 BBLs PUMPED. SET PLUG @ 14,980' MD, PERFS 14,961'-62', 14,914'-16', 14,880'-82', 14,826'-28' AND 14,785'-87'. POOH, VERIFIED GUNS FIRED.
05:00	06:00	1.00	39STIM, Stim & Treat	DT	e	O	WAITING 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	PPE/PRESSUREIZED LINES/JOB FOCUS/OVERHEAD LIFTING/PINCH POINTS	Tail Gate	

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

Perforations				
Time	Top (ftKB)	Btm (ftKB)	Current Status	Linked Zone
13:30	14,485.0	14,723.0		
04:45	14,785.0	14,963.0		
18:45	15,033.0	15,222.0		
07:00	15,273.0	15,494.0		
20:30	15,553.0	15,782.0		
01:15	15,844.0	16,052.0		
09:00	16,114.0	16,354.0		
22:30	16,419.0	16,631.0		
08:30	16,677.0	16,886.0		
15:30	16,951.0	17,158.0		
04:00	17,222.0	17,430.0		
11:00	17,494.0	17,687.0		
10:30	17,756.0	17,960.0		
02:45	18,032.0	18,241.0		
18:30	18,314.0	18,543.0		
10:30	18,599.0	18,767.0		
04:49	18,818.0	19,006.0		
18:30	19,044.0	19,048.0		

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)



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Other in Hole Pulled (Bridge Plugs, etc)

Pull Time	Des	Top (ftKB)	Btm (ftKB)	OD (in)

Cement

Start Time	Des	Type	String	Cement Comp
12:42	Primary Single Stage	Casing	Surface Casing, 757.0ftKB	DOWELL SCHLUMBERGER
17:10	Top Out	Casing	Surface Casing, 757.0ftKB	DOWELL SCHLUMBERGER
01:30	Primary Single Stage	Casing - Remedial	Intermediate Casing, 5,133.0ftKB	DOWELL SCHLUMBERGER
00:15	Primary Single Stage	Casing	Production Casing, 19,183.0ftKB	DOWELL SCHLUMBERGER

Job Supplies

Supply Item Description	Unit Label	Total Received	Total Consumed	Inventory On Location
FUEL		49,258.0	49,258.0	0.0



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Report # 15.0, Report Date: 11/13/2017

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Original KB Elevation (ft) 2,713.60	KB-Tubing Head Distance (ft)	Original Spud/Spud Rig Date 9/16/2017 12:15	Large Rig Spud Date	Rig Release Date 10/3/2017 22:00	PBDT (All) (ftKB)	TD All (TVD) (ftKB)

Primary Job Type 08-Completion	Secondary Job Type Original Completion
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Objective
COMPLETE WITH 42 STAGE FRAC OPERATION

Contractor HALLIBURTON	Rig Number RANGERS
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AFE Number DD.17.30832.CAP.CMP	Total AFE + Supp Amount (Cost) 5,445,000.00	Daily Field Est Total (Cost) 147,445	Cum Field Est To Date (Cost) 1,440,640
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Daily Readings

Weather	Temperature (°F)	Road Condition	Rig Time (hr)
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Short Report
 STAGE 16: Fraced with 4,000 gallons 15% HCL acid, 88,250 pounds 100 mesh sand, 125,200 pounds 40/70 mesh sand and 103,000 pounds 30/50 mesh sand. Average rate 85 (BPM) @ 6,509 (PSI) pump pressure. Load to recover 7,473 barrels. STAGE 17: Set plug @ 14,736' and perforate five 2' clusters from 14,485'-14,723'. Fraced with 4,000 gallons 15% HCL acid, 88,250 pounds 100 mesh sand, 103,000 pounds 40/70 mesh sand and 103,000 pounds 30/50 mesh sand. Average rate 85 (BPM) @ 6,409 (PSI) pump pressure. Load to recover 10,190 barrels. Preparing to run wire line at time of report.

Current Status/OART PERF STG 18	24 Hour Forecast 24 HR FRAC OPS
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Daily Contacts

Job Contact MARTY HAM, Foreman	Title Foreman	Phone Mobile
Job Contact CODY MOONEY, 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	B.WILSON/C. MOONEY		
1	Operator	HUNT OIL COMPANY	DAVID FRANCIS		
8	Service	KLX ENERGY SERVICES	ELINE		
2	Service	PREMIER FLOW CONTROL	FLOWBACK		
16	Service	HALLIBURTON	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	11:00	5.00	39STIM, Stim & Treat	DT	e	O	WAITING TO COMPLETE OPERATIONS ON ADJACENT WELL.
11:00	13:30	2.50	39STIM, Stim & Treat	ST	b	O	FRAC STAGE 16: WITH 4,000 GALS 15% HCL, 88,250 LBS 100 MESH SAND, 125,200 LBS 40/70 MESH SAND, 103,000 LBS 30/50 MESH. AVG RATE 85 BPM @ 6,509 PSI PUMP PRESS. FINAL 3,625 PSI, FRAC GRADIENT .86 LTR 7,473 BBLS.
13:30	15:30	2.00	39STIM, Stim & Treat	PF	c	O	STAGE 17 PERFS: RAN IN HOLE WITH 3-1/8" OD GUNS ON WIRELINE. PUMP DOWN GUNS AT 16 BPM, 4,600 PSI PUMP PRESSURE, 389 BBLS PUMPED. SET PLUG @ 14,736' MD, PERFS 14,721'-23', 14,671'-73'. 14,604'-06', 14,533'-35' AND 14,485'-87'. POOH, VERIFIED GUNS FIRED.
15:30	00:00	8.50	39STIM, Stim & Treat	DT	e	O	WAITING TO COMPLETE OPERATIONS ON ADJACENT WELL.
00:00	01:30	1.50	39STIM, Stim & Treat	ST	b	O	FRAC STAGE 17: WITH 4,000 GALS 15% HCL, 88,250 LBS 100 MESH SAND, 125,200 LBS 40/70 MESH SAND, 103,000 LBS 30/50 MESH. AVG RATE 84 BPM @ 6,409 PSI PUMP PRESS. FINAL 3,586 PSI, FRAC GRADIENT .86 LTR 10,190 BBLS.
01:30	03:30	2.00	39STIM, Stim & Treat	TR	a	O	ESTOP WAS HIT ON THE BLENDER, COULD NOT GET BLENDER TO CRANK. MECH MADE SOME REPAIRS



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Time Log							Operation Summary
Start Time	End Time	Dur (hr)	Phase	Ops Code	Sub Code	Time Code	
03:30	04:00	0.50	39STIM, Stim & Treat	ST	b	O	FINISHED UP STAGE 17
04:00	05:30	1.50	39STIM, Stim & Treat	TR	n	O	RIH W/WL PLUG SAT DOWN @2,866'. UNABLE TO PULL FREE, SURGED WELL AND PULLED FREE. ONCE AT SURFACE INSPECTED PLUG, TOP SET OF SLIPS BROKEN. PLACE SETTING TOOL AND PLUG TO THE SIDE FOR BAKER TO INSPECT. PUMPED 100 LBS OF LINER GEL AND FULL WELL BORE VOLUME
05:30	06:00	0.50	39STIM, Stim & Treat	PF	c	O	PICKING UP WL 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
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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)



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Cement				
Start Time	Des	Type	String	Cement Comp
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17:10	Top Out	Casing	Surface Casing, 757.0ftKB	DOWELL SCHLUMBERGER
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00:15	Primary Single Stage	Casing	Production Casing, 19,183.0ftKB	DOWELL SCHLUMBERGER

Job Supplies				
Supply Item Description	Unit Label	Total Received	Total Consumed	Inventory On Location
FUEL		49,258.0	49,258.0	0.0