

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1240615
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- Confidentiality Requested
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____

1240615

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
 Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
 Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR: _____ Producing Method:
 Flowing Pumping Gas Lift Other *(Explain)* _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

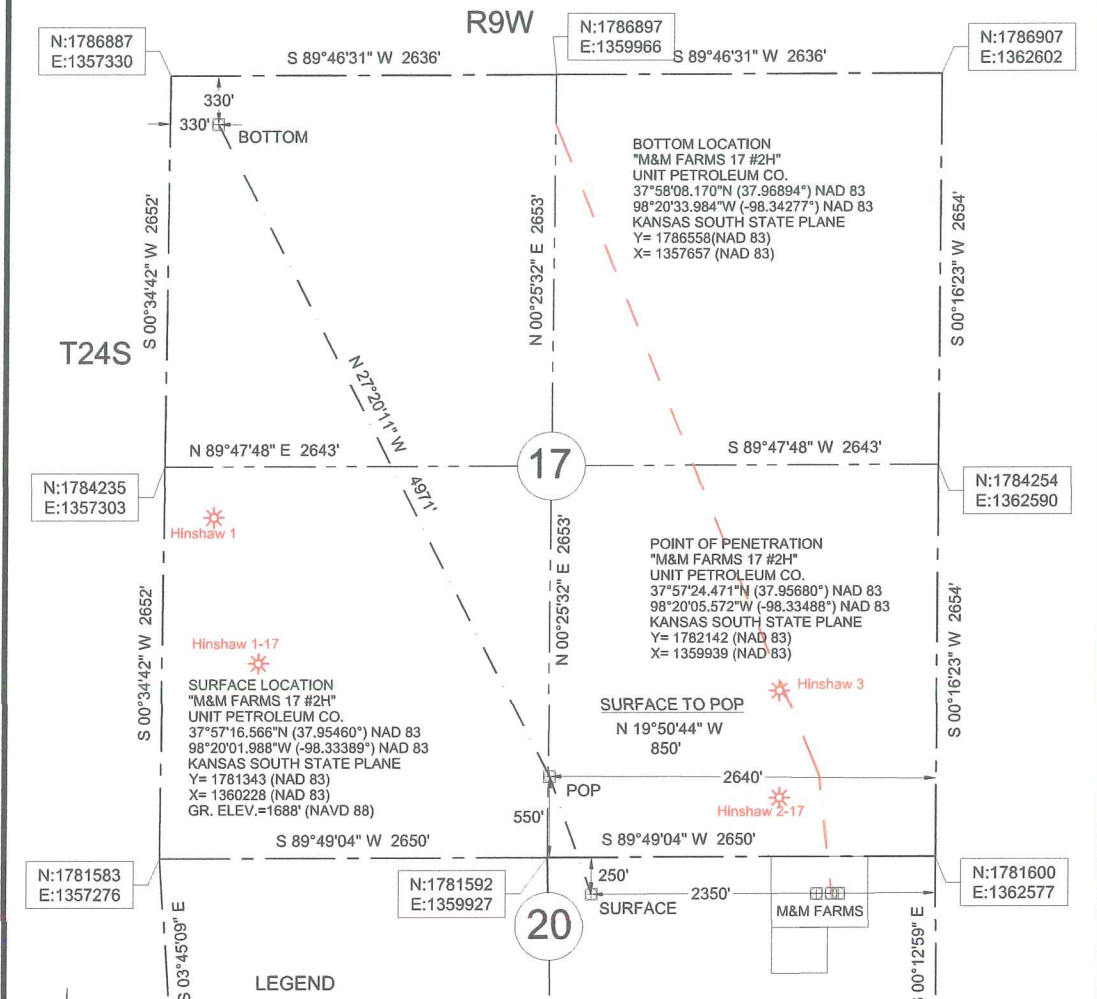
DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Unit Petroleum Company
Well Name	M&M Farms 17 #2H
Doc ID	1240615

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	28	16	40	164	H	160	2% CC
Intermediate	12.25	9.625	36	1504	A	325	2% CC & 1/4# celloflake
Intermediate	8.75	7	26	4234	AA-2	160	2% CC & 1/4# celloflake
Production	6.125	5.5	17	6361	50/50 POZ	250	2% CC & 1/4# celloflake
Production	6.125	4.5	11.6	6361	50/50 POZ	250	2% CC & 1/4# celloflake

Sections 17 and 20, T 24 S, R 9 W., Reno County, Kansas.



LEGEND

- SECTION LINE
- 1/4 SECTION LINE
- EXISTING WELL
- EXISTING LATERAL

0' 1000' 2000' 3000'

Datum: NAD 83
 Units: US Survey Feet
 North: Grid
 Coordinates: State Plane
 Zone: 1502
 State: Kansas
 Region: South

Description: Surface Hole Location Stake
 "M&M Farms 17 #2H" situated 250 feet from the north section line and 2350 feet from the east section line of Section 20, T 24 S, R 9 W., Reno County, Kansas.

Description: Point of Penetration
 "M&M Farms 17 #2H" situated 550 feet from the south section line and 2640 feet from the east section line of Section 17, T 24 S, R 9 W., Reno County, Kansas.

Description: Bottom Location
 "M&M Farms 17 #2H" situated 330 feet from the north section line and 330 feet from the west section line of Section 17, T 24 S, R 9 W., Reno County, Kansas.



Survey is valid only if print has original seal and signature of surveyor present

ONE CALL KANSAS
811
 Know what's below.
 Call before you dig.
 Buried utilities are not necessarily shown. It is the contractor's responsibility to locate and preserve all utility services.



JIVIDENS LAND SURVEY CO., INC.
 1210 19TH STREET / P.O. BOX 943
 WOODWARD, OKLAHOMA 73802
 Phone 580-256-7174 - Fax 580-256-3424
 roger@jividenslandsurvey.com mike@jividenslandsurvey.com

Survey For:
 Unit Petroleum Co.
 P.O. Box 2726
 Woodward, Oklahoma 73802
 Attn: Jason Rummery

JOB 519-14	DATE OF PLAT 09-08-2014	SCALE 1"=1000'	SHEET 1 OF 5
DRAWN BY C.M.G.		OKLA. CA #2064, EXP. 06/30/2015 KANSAS CA #143, EXP. 12/31/2014	



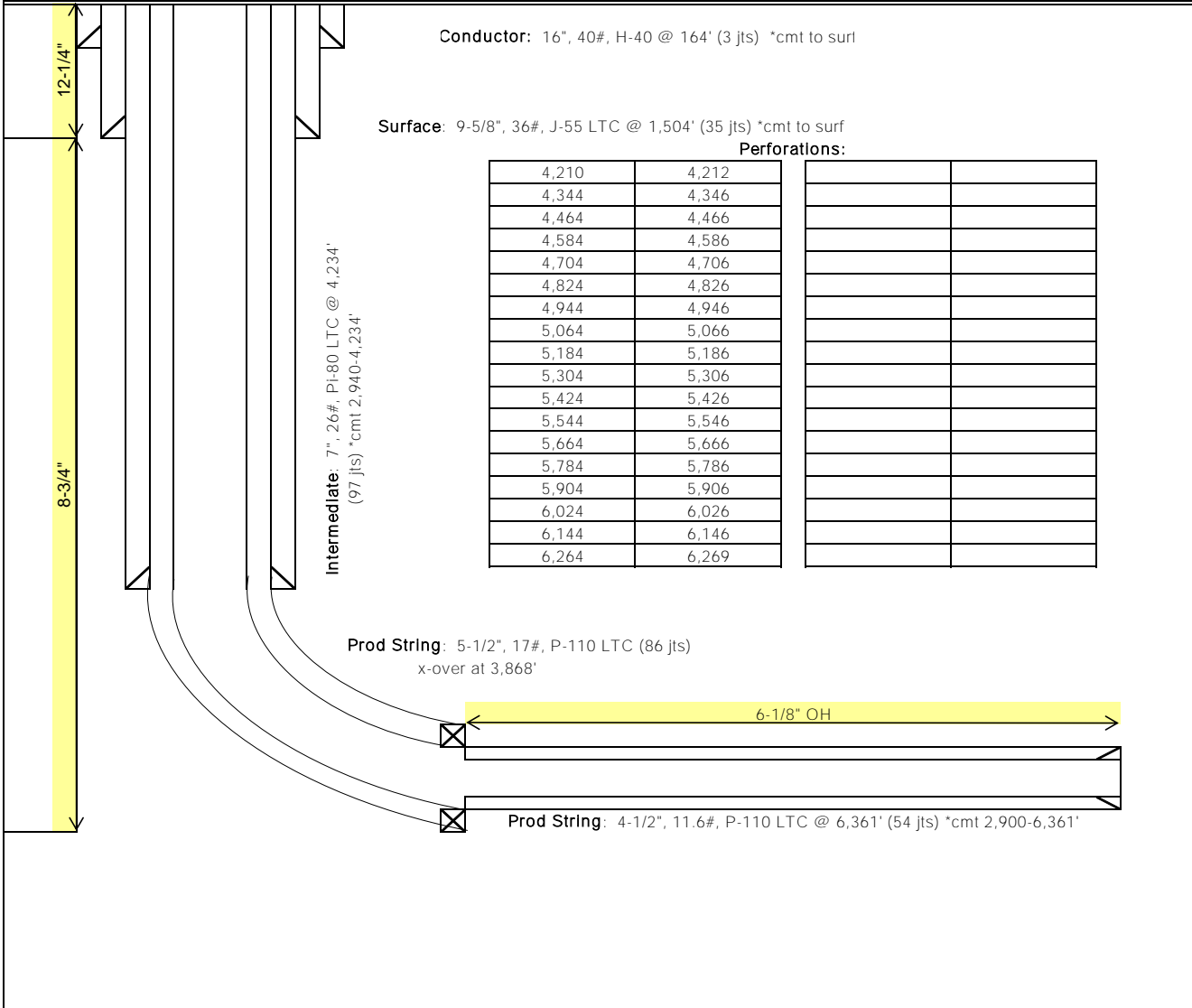
Unit Petroleum Company

Date of Last Revision:
9-Jan-15

Well: M&M Farms 17 #2H
Location: 20-24S-9W
County, State: Reno County, KS
Surface Location: 250' FNL & 2,350' FEL

API No.: 1515521711
Rig: Unit Drilling #331
Engineer: Tom Carrington (918) 477-4535
Geology: Rob Wilson (918) 477-5728

OH Size



Customer <i>UNIT Petroleum Co.</i>		Lease No.		Date	
Lease <i>MOM Farms 17</i>		Well # <i>2-H</i>		<i>11-2-14</i>	
Field Order # <i>11778</i>	Station <i>PRA TT KS</i>	Casing <i>9 5/8</i>	Depth <i>1305'</i>	County <i>RAWO</i>	State <i>KS</i>
Type Job <i>CNW 9 5/8 Surface</i>			Formation	Legal Description <i>20-24-9</i>	

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
<i>9 5/8</i>				Pre Pad	Max		5 Min.	
Depth <i>1305'</i>	Depth	From	To	Pad	Min		10 Min.	
Volume <i>116</i>	Volume	From	To	Frac	Avg		15 Min.	
Max Press <i>500</i>	Max Press	From	To		HHP Used		Annulus Pressure	
Well Connection <i>P.C.</i>	Annulus Vol.	From	To	Flush	Gas Volume		Total Load	
Plug Depth <i>1305'</i>	Packer Depth	From	To					

Customer Representative	Station Manager <i>DAVE SCOTT</i>	Treater <i>Robert J. ...</i>
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Service Units	<i>37900</i>	<i>77686</i>	<i>19905</i>	<i>19960</i>	<i>19860</i>	<i>19959</i>	<i>73708</i>			
Driver Names	<i>Sullivan</i>	<i>Epping</i>		<i>Bison</i>		<i>Beachy</i>				

Time	Casing Pressure	Tubing Pressure	Bbbs. Pumped	Rate	Service Log
<i>8:15</i>					<i>on loc</i>
					<i>Run 9 5/8 30' csp.</i>
<i>9:15</i>					<i>Casing on Bottom</i>
<i>9:30</i>					<i>Hook by circ eq.</i>
<i>10:30</i>			<i>3</i>		<i>SPACER</i>
	<i>200</i>		<i>142</i>	<i>5</i>	<i>mix A-con cmt 325sk mix @ 120ppg</i>
			<i>60</i>		<i>mix Comm cmt 280 sk @ 15.5 ppg</i>
					<i>cmt mixed shut down?</i>
					<i>Release Plug</i>
				<i>5.</i>	<i>St Dig</i>
<i>11:40</i>	<i>1,000</i>		<i>116</i>	<i>3</i>	<i>Plug down</i>
					<i>circ 55 BBL cmt Pit</i>
					<i>503 Complete</i>
					<i>Thank you</i>

BASIC

energy services, L.P.

TREATMENT REPORT

Customer <i>UNIT Petroleum</i>	Lease No.	Date <i>11-6-14</i>	
Lease <i>Mom Farms</i>	Well # <i>17-2H</i>		
Field Order # <i>11781</i>	Station <i>Pratt KS</i>	Casing <i>7"</i>	Depth <i>4239'</i>
Type Job <i>OPW 2" intermediate</i>	Formation	County <i>RENO</i>	State <i>KS</i>
		Legal Description <i>20-24-9</i>	

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid		RATE	PRESS	ISIP
<i>7"</i>				Pre Pad		Max		5 Min.
Depth <i>4239'</i>	Depth	From	To	Pad		Min		10 Min.
Volume <i>162</i>	Volume	From	To	Frac		Avg		15 Min.
Max Press <i>2500</i>	Max Press	From	To	HHP Used				Annulus Pressure
Well Connection <i>P.C.</i>	Annulus Vol.	From	To	Flush		Gas Volume		Total Load
Plug Depth <i>4239'</i>	Packer Depth	From	To					

Customer Representative	Station Manager <i>DAVE SCOTT</i>	Treater <i>Robert Jellison</i>
Service Units <i>37900 94931 19843 19959 73768</i>		
Driver Names <i>Sullivan Hanson Gibson</i>		

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
					<i>on loc</i>
<i>2:20</i>					<i>Casing on Bottom by circ. sep.</i>
<i>3:20</i>	<i>250</i>		<i>5</i>	<i>3.5</i>	<i>8t SPACER</i>
			<i>12</i>		<i>8t mud flush</i>
			<i>5</i>		<i>SPACER</i>
			<i>41</i>	<i>4.5</i>	<i>mix cont 160 sk AA-2 cont 15. ppf cont mix D shut down</i>
					<i>Release Plug</i>
				<i>5</i>	<i>8t Drill</i>
	<i>400</i>				<i>Lift Is.</i>
	<i>650</i>			<i>3.5</i>	<i>Slow Rate</i>
<i>4:15</i>	<i>1,500</i>		<i>162</i>		<i>Plug down</i>
					<i>Release Is. / Short Hold</i>
					<i>503 Complete</i>
					<i>Thank you</i>

BASIC

energy services, L.P.

TREATMENT REPORT

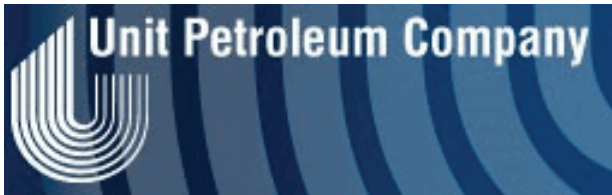
Customer <i>UNIT Petro</i>	Lease No.	Date <i>11/24/14</i>	
Lease <i>M-M-Jacobs 12-2H</i>	Well #		
Field Order # <i>11750</i>	Station <i>Pratt K</i>	Casing	Depth
Type Job <i>CNW 4 1/2" 5 1/2" log cc</i>	Formation	County <i>Revo</i>	State <i>KC</i>
		Legal Description <i>20-24-9</i>	

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
<i>4 1/2"</i>	<i>5 1/2"</i>							5 Min.
Depth <i>3444' 84"</i>	Depth <i>3873' 50"</i>	From	To	Pre Pad	Max			
Volume <i>37.8</i>	Volume <i>89.8</i>	From	To	Pad	Min			10 Min.
Max Press <i>12712</i>	Max Press	From	To	Frac	Avg			15 Min.
Well Connection	Annulus Vol.	From	To		HHP Used			Annulus Pressure
Plug Depth	Packer Depth	From	To	Flush	Gas Volume			Total Load

Customer Representative	Station Manager <i>Dave Scott</i>	Treater <i>Robert Miller</i>
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Service Units <i>Sullivan Edmund</i>	<i>Bandy</i>							
Driver Names <i>37900 84/98/1 1984/3 1990/3 210/0</i>								

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>3:00</i>					<i>on loc</i>
<i>3:30</i>					<i>casiny on Bottom circ</i>
<i>4:40</i>	<i>700</i>		<i>5</i>	<i>3.5</i>	<i>St spacer</i>
			<i>12</i>		<i>St mud flush</i>
			<i>5</i>		<i>St spacer</i>
	<i>500</i>		<i>63</i>	<i>9</i>	<i>mix cmt 250 sk 50/50 pot unit 1300</i>
			<i>1 1/2</i>		<i>cmt mixed</i>
					<i>pulling ONE HALF BBL (open 4" 20)</i>
					<i>shut down</i>
					<i>FD STALL play</i>
				<i>5.5</i>	<i>St Diss w/ Sugar 4" 20 / 40 BBL</i>
					<i>Lift</i>
	<i>1,000</i>			<i>3.5</i>	<i>Slow Rate</i>
<i>5:40</i>	<i>2,000</i>		<i>128</i>		<i>Play down</i>
					<i>Release PSI float hold</i>
					<i>JOB complete</i>
					<i>Thank you</i>



Unit Petroleum

Reno County, Kansas [NAD 83]

Section 20 T24S-R9W

M&M Farms 17 #2H

OH

Survey: MWD

Wellpath Report

08 January, 2015





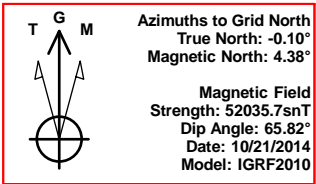
Unit Petroleum
 Project: Reno County, Kansas [NAD 83]
 Site: Section 20 T24S-R9W
 Well: M&M Farms 17 #2H
 Wellbore: OH
 Design: Design #5
 Lat: 37° 57' 16.570 N
 Long: 98° 20' 1.987 W
 Pad GL: 1684.00
 KB: 14' KB @ 1698.00usft (UDI 331)



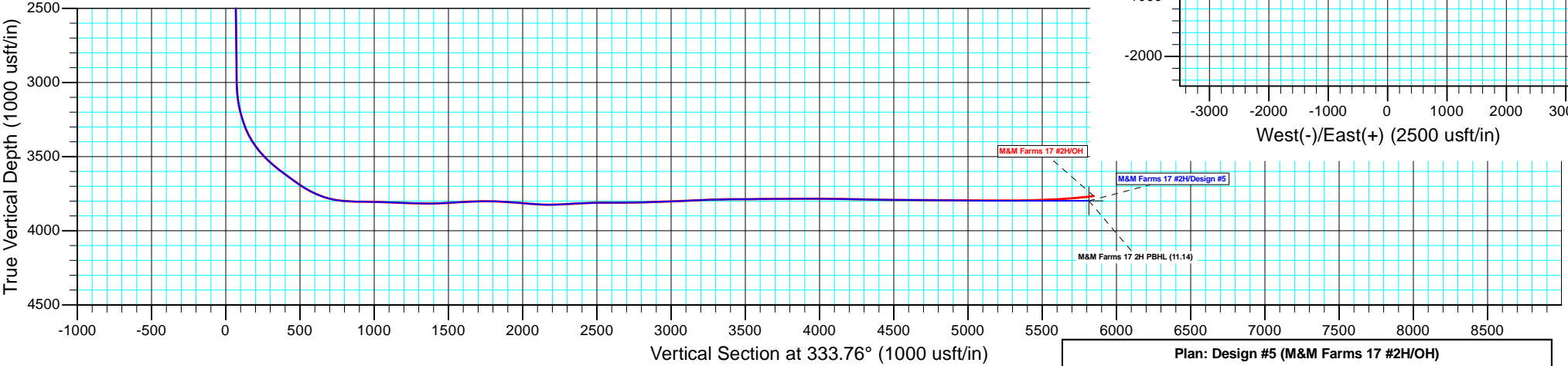
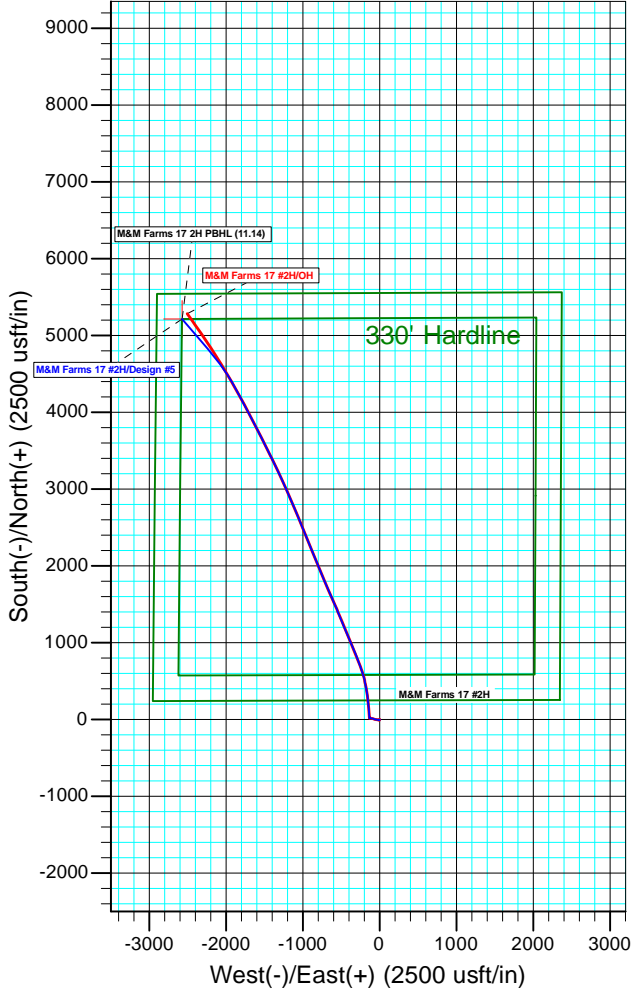
SECTION DETAILS								
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect
8139.00	89.10	330.80	3793.87	4340.81	-1891.81	0.00	0.00	4729.91
8664.71	90.00	319.48	3798.01	4771.46	-2191.79	2.16	-85.51	5248.82
9248.61	90.00	319.48	3798.00	5215.33	-2571.16	0.00	0.00	5814.69

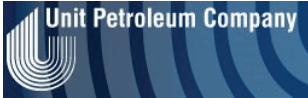
WELL DETAILS: M&M Farms 17 #2H							
+N/-S	+E/-W	Northing	Ground Level: Easting	1684.00	Latitude	Longitude	Slot
0.00	0.00	1781343.00	1360228.00	37° 57' 16.570 N	98° 20' 1.987 W		

PROJECT DETAILS: Reno County, Kansas [NAD 83]
 Geodetic System: US State Plane 1983
 Datum: North American Datum 1983
 Ellipsoid: GRS 1980
 Zone: Kansas Southern Zone
 System Datum: Mean Sea Level



NOTE: All Lease lines and Hard lines are estimates only and are subject to the customers' approval.





Company:	Unit Petroleum	Local Co-ordinate Reference:	Well M&M Farms 17 #2H
Project:	Reno County, Kansas [NAD 83]	TVD Reference:	14' KB @ 1698.00usft (UDI 331)
Site:	Section 20 T24S-R9W	MD Reference:	14' KB @ 1698.00usft (UDI 331)
Well:	M&M Farms 17 #2H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM ON IWSERVER

Project	Reno County, Kansas [NAD 83]		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Kansas Southern Zone		Using geodetic scale factor

Site	Section 20 T24S-R9W				
Site Position:		Northing:	1,781,343.00 usft	Latitude:	37° 57' 16.570 N
From:	Map	Easting:	1,360,228.00 usft	Longitude:	98° 20' 1.987 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.10 °

Well	M&M Farms 17 #2H					
Well Position	+N/-S	0.00 usft	Northing:	1,781,343.00 usft	Latitude:	37° 57' 16.570 N
	+E/-W	0.00 usft	Easting:	1,360,228.00 usft	Longitude:	98° 20' 1.987 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	1,684.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	10/21/2014	4.48	65.82	52,036

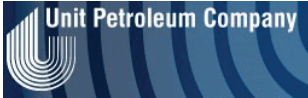
Design	OH				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	333.76	



Company:	Unit Petroleum	Local Co-ordinate Reference:	Well M&M Farms 17 #2H
Project:	Reno County, Kansas [NAD 83]	TVD Reference:	14' KB @ 1698.00usft (UDI 331)
Site:	Section 20 T24S-R9W	MD Reference:	14' KB @ 1698.00usft (UDI 331)
Well:	M&M Farms 17 #2H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM ON IWSERVER

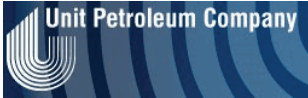
Survey Program		Date				
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description		
100.00	2,880.00	Gyro (OH)	CB-GYRO-MS	Camera based gyro multishot		
2,973.00	9,265.00	MWD (OH)	MWD	MWD - Standard		

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Northing (usft)	Easting (usft)	V. Sec (usft)	DLeg (°/100usft)
2,880.00	1.00	288.71	2,875.97	17.85	-127.72	1,781,360.85	1,360,100.29	72.48	0.00
2,973.00	1.00	284.80	2,968.95	18.31	-129.28	1,781,361.31	1,360,098.73	73.59	0.07
3,005.00	1.10	292.70	3,000.95	18.50	-129.83	1,781,361.50	1,360,098.18	74.01	0.55
3,036.00	2.20	333.90	3,031.94	19.15	-130.37	1,781,362.15	1,360,097.64	74.82	5.01
3,068.00	4.10	343.00	3,063.89	20.80	-130.97	1,781,363.80	1,360,097.04	76.57	6.12
3,100.00	6.60	348.50	3,095.75	23.70	-131.67	1,781,366.69	1,360,096.34	79.48	7.97
3,132.00	9.50	351.50	3,127.43	28.11	-132.43	1,781,371.11	1,360,095.58	83.77	9.15
3,163.00	12.30	354.80	3,157.86	33.93	-133.11	1,781,376.93	1,360,094.90	89.29	9.25
3,194.00	14.30	355.80	3,188.03	41.04	-133.69	1,781,384.03	1,360,094.32	95.92	6.49
3,226.00	16.50	356.80	3,218.88	49.52	-134.23	1,781,392.51	1,360,093.78	103.77	6.92
3,257.00	18.50	357.00	3,248.44	58.82	-134.73	1,781,401.82	1,360,093.28	112.34	6.45
3,287.00	20.70	356.90	3,276.70	68.87	-135.27	1,781,411.87	1,360,092.74	121.59	7.33
3,319.00	23.30	355.90	3,306.37	80.84	-136.03	1,781,423.83	1,360,091.98	132.65	8.21
3,351.00	26.30	354.50	3,335.42	94.21	-137.16	1,781,437.20	1,360,090.85	145.15	9.55
3,383.00	29.70	354.40	3,363.67	109.16	-138.61	1,781,452.15	1,360,089.40	159.20	10.63
3,414.00	33.10	354.80	3,390.12	125.24	-140.13	1,781,468.23	1,360,087.88	174.29	10.99
3,446.00	36.70	355.80	3,416.37	143.48	-141.62	1,781,486.47	1,360,086.39	191.31	11.39
3,478.00	39.60	355.80	3,441.53	163.19	-143.07	1,781,506.18	1,360,084.94	209.63	9.06
3,509.00	42.00	355.60	3,464.99	183.39	-144.59	1,781,526.38	1,360,083.42	228.42	7.75
3,541.00	44.20	355.10	3,488.36	205.18	-146.36	1,781,548.17	1,360,081.65	248.75	6.96
3,572.00	46.60	354.90	3,510.12	227.17	-148.29	1,781,570.15	1,360,079.72	269.32	7.76



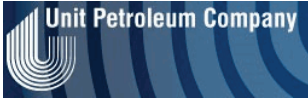
Company:	Unit Petroleum	Local Co-ordinate Reference:	Well M&M Farms 17 #2H
Project:	Reno County, Kansas [NAD 83]	TVD Reference:	14' KB @ 1698.00usft (UDI 331)
Site:	Section 20 T24S-R9W	MD Reference:	14' KB @ 1698.00usft (UDI 331)
Well:	M&M Farms 17 #2H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM ON IWSERVER

Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Northing (usft)	Easting (usft)	V. Sec (usft)	DLeg (°/100usft)	
3,604.00	48.80	354.20	3,531.66	250.73	-150.54	1,781,593.71	1,360,077.47	291.45	7.06	
3,636.00	50.50	353.00	3,552.37	274.96	-153.26	1,781,617.94	1,360,074.75	314.39	6.03	
3,668.00	52.00	351.70	3,572.40	299.69	-156.58	1,781,642.67	1,360,071.43	338.04	5.66	
3,700.00	53.60	350.60	3,591.75	324.88	-160.51	1,781,667.85	1,360,067.50	362.36	5.70	
3,732.00	54.90	350.40	3,610.45	350.49	-164.79	1,781,693.47	1,360,063.22	387.23	4.09	
3,764.00	55.20	350.40	3,628.78	376.35	-169.17	1,781,719.33	1,360,058.84	412.36	0.94	
3,796.00	55.40	350.50	3,647.00	402.29	-173.53	1,781,745.27	1,360,054.48	437.56	0.68	
3,828.00	55.40	349.70	3,665.17	428.24	-178.06	1,781,771.22	1,360,049.95	462.84	2.06	
3,859.00	55.70	349.70	3,682.70	453.39	-182.63	1,781,796.36	1,360,045.38	487.42	0.97	
3,890.00	57.20	348.30	3,699.84	478.75	-187.57	1,781,821.72	1,360,040.45	512.34	6.13	
3,922.00	59.70	347.40	3,716.58	505.41	-193.31	1,781,848.38	1,360,034.71	538.79	8.17	
3,954.00	62.80	346.10	3,731.97	532.71	-199.74	1,781,875.68	1,360,028.27	566.12	10.32	
3,985.00	65.40	345.20	3,745.51	559.72	-206.65	1,781,902.69	1,360,021.36	593.41	8.78	
4,017.00	67.60	343.10	3,758.27	587.95	-214.67	1,781,930.91	1,360,013.34	622.27	9.14	
4,048.00	70.70	341.90	3,769.30	615.57	-223.39	1,781,958.53	1,360,004.63	650.90	10.63	
4,080.00	74.10	341.30	3,778.98	644.51	-233.01	1,781,987.47	1,359,995.00	681.11	10.77	
4,112.00	77.40	340.20	3,786.85	673.79	-243.24	1,782,016.74	1,359,984.78	711.89	10.84	
4,144.00	80.10	339.60	3,793.09	703.26	-254.02	1,782,046.21	1,359,973.99	743.09	8.64	
4,177.00	83.90	339.50	3,797.69	733.87	-265.44	1,782,076.82	1,359,962.58	775.60	11.52	
4,234.00	86.75	338.04	3,802.33	786.82	-286.01	1,782,129.77	1,359,942.01	832.19	5.61	
7" Casing Point										
4,246.28	87.36	337.73	3,802.96	798.18	-290.63	1,782,141.13	1,359,937.39	844.42	5.61	
M&M Farms 17 2H POP										
4,279.00	89.00	336.90	3,804.00	828.35	-303.24	1,782,171.30	1,359,924.78	877.06	5.61	
4,343.00	89.70	337.40	3,804.73	887.33	-328.09	1,782,230.27	1,359,899.93	940.94	1.34	
4,405.00	88.80	337.50	3,805.54	944.58	-351.86	1,782,287.52	1,359,876.16	1,002.81	1.46	
4,468.00	87.60	337.80	3,807.52	1,002.82	-375.81	1,782,345.75	1,359,852.22	1,065.63	1.96	



Company:	Unit Petroleum	Local Co-ordinate Reference:	Well M&M Farms 17 #2H
Project:	Reno County, Kansas [NAD 83]	TVD Reference:	14' KB @ 1698.00usft (UDI 331)
Site:	Section 20 T24S-R9W	MD Reference:	14' KB @ 1698.00usft (UDI 331)
Well:	M&M Farms 17 #2H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM ON IWSERVER

Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Northing (usft)	Easting (usft)	V. Sec (usft)	DLeg (°/100usft)	
4,529.00	87.30	337.30	3,810.23	1,059.14	-399.08	1,782,402.07	1,359,828.95	1,126.43	0.96	
4,592.00	88.40	337.80	3,812.59	1,117.32	-423.12	1,782,460.25	1,359,804.91	1,189.25	1.92	
4,655.00	88.30	337.60	3,814.41	1,175.59	-447.01	1,782,518.51	1,359,781.01	1,252.08	0.35	
4,716.00	88.80	337.60	3,815.95	1,231.97	-470.25	1,782,574.89	1,359,757.78	1,312.92	0.82	
4,778.00	89.20	337.00	3,817.03	1,289.15	-494.17	1,782,632.07	1,359,733.86	1,374.79	1.16	
4,840.00	93.00	336.70	3,815.84	1,346.14	-518.54	1,782,689.06	1,359,709.49	1,436.68	6.15	
4,903.00	93.80	337.80	3,812.11	1,404.14	-542.86	1,782,747.05	1,359,685.17	1,499.45	2.16	
4,965.00	93.50	336.30	3,808.16	1,461.11	-566.99	1,782,804.02	1,359,661.05	1,561.22	2.46	
5,026.00	93.20	335.80	3,804.60	1,516.76	-591.71	1,782,859.67	1,359,636.33	1,622.06	0.95	
5,088.00	91.30	335.70	3,802.16	1,573.25	-617.15	1,782,916.15	1,359,610.89	1,683.98	3.07	
5,149.00	90.20	336.60	3,801.36	1,629.03	-641.81	1,782,971.93	1,359,586.23	1,744.92	2.33	
5,211.00	88.30	336.50	3,802.18	1,685.90	-666.48	1,783,028.80	1,359,561.56	1,806.83	3.07	
5,273.00	86.80	336.80	3,804.83	1,742.77	-691.03	1,783,085.66	1,359,537.01	1,868.70	2.47	
5,335.00	85.50	337.30	3,808.99	1,799.73	-715.15	1,783,142.62	1,359,512.89	1,930.45	2.25	
5,395.00	85.60	337.10	3,813.64	1,854.88	-738.33	1,783,197.76	1,359,489.71	1,990.16	0.37	
5,457.00	85.80	337.90	3,818.29	1,912.00	-761.99	1,783,254.88	1,359,466.06	2,051.86	1.33	
5,517.00	85.80	337.90	3,822.69	1,967.44	-784.50	1,783,310.31	1,359,443.55	2,111.54	0.00	
5,579.00	89.30	337.70	3,825.34	2,024.78	-807.91	1,783,367.65	1,359,420.15	2,173.32	5.65	
5,640.00	93.40	337.40	3,823.90	2,081.13	-831.19	1,783,424.00	1,359,396.86	2,234.16	6.74	
5,702.00	93.70	337.80	3,820.06	2,138.34	-854.77	1,783,481.21	1,359,373.28	2,295.90	0.81	
5,763.00	92.70	337.90	3,816.66	2,194.75	-877.73	1,783,537.61	1,359,350.32	2,356.65	1.65	
5,825.00	92.00	338.10	3,814.11	2,252.19	-900.94	1,783,595.05	1,359,327.12	2,418.42	1.17	
5,886.00	91.10	337.90	3,812.46	2,308.73	-923.78	1,783,651.58	1,359,304.28	2,479.23	1.51	
5,947.00	90.60	338.00	3,811.56	2,365.26	-946.68	1,783,708.11	1,359,281.38	2,540.06	0.84	
6,009.00	89.60	337.70	3,811.45	2,422.68	-970.05	1,783,765.53	1,359,258.01	2,601.90	1.68	
6,071.00	90.50	336.90	3,811.40	2,479.88	-993.98	1,783,822.72	1,359,234.08	2,663.79	1.94	
6,132.00	90.90	336.80	3,810.65	2,535.96	-1,017.96	1,783,878.80	1,359,210.11	2,724.69	0.68	



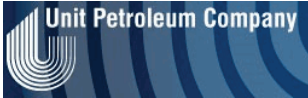
Company:	Unit Petroleum	Local Co-ordinate Reference:	Well M&M Farms 17 #2H
Project:	Reno County, Kansas [NAD 83]	TVD Reference:	14' KB @ 1698.00usft (UDI 331)
Site:	Section 20 T24S-R9W	MD Reference:	14' KB @ 1698.00usft (UDI 331)
Well:	M&M Farms 17 #2H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM ON IWSERVER

Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Northing (usft)	Easting (usft)	V. Sec (usft)	DLeg (°/100usft)	
6,193.00	91.70	337.20	3,809.27	2,592.10	-1,041.79	1,783,934.93	1,359,186.28	2,785.58	1.47	
6,255.00	91.50	337.20	3,807.54	2,649.23	-1,065.80	1,783,992.06	1,359,162.26	2,847.44	0.32	
6,316.00	91.70	337.30	3,805.83	2,705.46	-1,089.38	1,784,048.29	1,359,138.68	2,908.30	0.37	
6,378.00	92.20	336.80	3,803.72	2,762.52	-1,113.55	1,784,105.35	1,359,114.52	2,970.17	1.14	
6,440.00	92.40	336.80	3,801.23	2,819.46	-1,137.95	1,784,162.28	1,359,090.12	3,032.03	0.32	
6,497.73	92.49	336.99	3,798.77	2,872.51	-1,160.59	1,784,215.33	1,359,067.49	3,089.62	0.36	
6500' MD TGT										
6,502.00	92.50	337.00	3,798.58	2,876.44	-1,162.25	1,784,219.26	1,359,065.82	3,093.88	0.36	
6,565.00	93.00	337.30	3,795.56	2,934.43	-1,186.69	1,784,277.24	1,359,041.39	3,156.70	0.93	
6,626.00	92.70	336.80	3,792.53	2,990.53	-1,210.45	1,784,333.34	1,359,017.63	3,217.52	0.96	
6,690.00	91.70	335.70	3,790.07	3,049.07	-1,236.20	1,784,391.87	1,358,991.88	3,281.41	2.32	
6,752.00	90.90	334.90	3,788.67	3,105.38	-1,262.10	1,784,448.18	1,358,965.98	3,343.37	1.82	
6,816.00	90.60	334.30	3,787.83	3,163.19	-1,289.55	1,784,505.98	1,358,938.53	3,407.36	1.05	
6,879.00	90.00	334.50	3,787.50	3,220.00	-1,316.77	1,784,562.79	1,358,911.31	3,470.35	1.00	
6,942.00	90.20	334.10	3,787.39	3,276.77	-1,344.09	1,784,619.56	1,358,883.99	3,533.35	0.71	
7,006.00	90.60	333.90	3,786.94	3,334.29	-1,372.15	1,784,677.08	1,358,855.94	3,597.35	0.70	
7,069.00	90.20	333.90	3,786.50	3,390.86	-1,399.86	1,784,733.65	1,358,828.23	3,660.34	0.63	
7,131.00	91.00	334.10	3,785.85	3,446.58	-1,427.04	1,784,789.36	1,358,801.05	3,722.34	1.33	
7,194.00	90.60	333.40	3,784.97	3,503.08	-1,454.90	1,784,845.86	1,358,773.19	3,785.33	1.28	
7,257.00	89.70	333.50	3,784.81	3,559.44	-1,483.06	1,784,902.21	1,358,745.03	3,848.33	1.44	
7,320.00	90.00	333.50	3,784.97	3,615.82	-1,511.17	1,784,958.59	1,358,716.92	3,911.33	0.48	
7,384.00	90.70	333.70	3,784.58	3,673.14	-1,539.63	1,785,015.91	1,358,688.47	3,975.33	1.14	
7,448.00	89.00	333.10	3,784.75	3,730.37	-1,568.28	1,785,073.13	1,358,659.82	4,039.32	2.82	
7,500.71	89.25	332.77	3,785.55	3,777.30	-1,592.27	1,785,120.06	1,358,635.83	4,092.03	0.79	
7500' MD TGT										
7,511.00	89.30	332.70	3,785.68	3,786.44	-1,596.98	1,785,129.20	1,358,631.12	4,102.31	0.79	
7,575.00	89.00	332.50	3,786.63	3,843.26	-1,626.43	1,785,186.01	1,358,601.68	4,166.29	0.56	



Company:	Unit Petroleum	Local Co-ordinate Reference:	Well M&M Farms 17 #2H
Project:	Reno County, Kansas [NAD 83]	TVD Reference:	14' KB @ 1698.00usft (UDI 331)
Site:	Section 20 T24S-R9W	MD Reference:	14' KB @ 1698.00usft (UDI 331)
Well:	M&M Farms 17 #2H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM ON IWSERVER

Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Northing (usft)	Easting (usft)	V. Sec (usft)	DLeg (°/100usft)	
7,638.00	88.80	332.50	3,787.84	3,899.13	-1,655.51	1,785,241.88	1,358,572.59	4,229.26	0.32	
7,702.00	89.60	332.40	3,788.74	3,955.86	-1,685.11	1,785,298.61	1,358,543.00	4,293.24	1.26	
7,763.00	88.20	332.40	3,789.91	4,009.91	-1,713.37	1,785,352.66	1,358,514.74	4,354.21	2.30	
7,824.00	88.70	332.10	3,791.56	4,063.88	-1,741.76	1,785,406.62	1,358,486.35	4,415.17	0.96	
7,887.00	89.30	331.80	3,792.66	4,119.47	-1,771.38	1,785,462.20	1,358,456.73	4,478.13	1.06	
7,949.00	89.80	331.20	3,793.14	4,173.95	-1,800.96	1,785,516.68	1,358,427.15	4,540.08	1.26	
8,012.00	90.50	331.30	3,792.98	4,229.18	-1,831.26	1,785,571.91	1,358,396.85	4,603.01	1.12	
8,075.00	89.40	332.00	3,793.03	4,284.63	-1,861.18	1,785,627.35	1,358,366.94	4,665.97	2.07	
8,139.00	89.10	330.80	3,793.87	4,340.81	-1,891.81	1,785,683.54	1,358,336.31	4,729.91	1.93	
8,202.00	89.80	330.30	3,794.48	4,395.67	-1,922.79	1,785,738.39	1,358,305.34	4,792.81	1.37	
8,265.00	89.40	329.20	3,794.92	4,450.09	-1,954.52	1,785,792.80	1,358,273.60	4,855.65	1.86	
8,327.00	90.30	328.90	3,795.08	4,503.26	-1,986.41	1,785,845.97	1,358,241.72	4,917.44	1.53	
8,390.00	89.50	328.30	3,795.19	4,557.03	-2,019.23	1,785,899.74	1,358,208.90	4,980.18	1.59	
8,454.00	90.10	328.30	3,795.41	4,611.48	-2,052.86	1,785,954.19	1,358,175.27	5,043.89	0.94	
8,513.39	88.89	327.28	3,795.93	4,661.73	-2,084.52	1,786,004.44	1,358,143.62	5,102.96	2.66	
8500' MD TGT										
8,518.00	88.80	327.20	3,796.03	4,665.61	-2,087.01	1,786,008.31	1,358,141.12	5,107.54	2.66	
8,580.00	89.80	326.70	3,796.78	4,717.57	-2,120.82	1,786,060.27	1,358,107.32	5,169.09	1.80	
8,643.00	89.60	327.50	3,797.11	4,770.46	-2,155.04	1,786,113.16	1,358,073.10	5,231.67	1.31	
8,706.00	90.60	327.30	3,797.00	4,823.54	-2,188.98	1,786,166.23	1,358,039.16	5,294.28	1.62	
8,769.00	91.30	326.70	3,795.96	4,876.37	-2,223.29	1,786,219.05	1,358,004.85	5,356.83	1.46	
8,833.00	91.50	325.80	3,794.40	4,929.56	-2,258.83	1,786,272.25	1,357,969.31	5,420.27	1.44	
8,897.00	91.80	326.10	3,792.55	4,982.57	-2,294.65	1,786,325.25	1,357,933.49	5,483.65	0.66	
8,960.00	92.30	326.10	3,790.30	5,034.83	-2,329.77	1,786,377.50	1,357,898.38	5,546.04	0.79	
9,023.00	93.40	325.40	3,787.17	5,086.84	-2,365.18	1,786,429.51	1,357,862.97	5,608.35	2.07	
9,086.00	93.70	325.10	3,783.27	5,138.50	-2,401.02	1,786,481.17	1,357,827.13	5,670.54	0.67	
9,149.00	94.60	324.80	3,778.71	5,189.94	-2,437.11	1,786,532.61	1,357,791.05	5,732.63	1.51	



Company:	Unit Petroleum	Local Co-ordinate Reference:	Well M&M Farms 17 #2H
Project:	Reno County, Kansas [NAD 83]	TVD Reference:	14' KB @ 1698.00usft (UDI 331)
Site:	Section 20 T24S-R9W	MD Reference:	14' KB @ 1698.00usft (UDI 331)
Well:	M&M Farms 17 #2H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM ON IWSERVER

Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Northing (usft)	Easting (usft)	V. Sec (usft)	DLeg (°/100usft)	
9,211.00	96.30	324.30	3,772.82	5,240.22	-2,472.90	1,786,582.88	1,357,755.26	5,793.55	2.86	
Last MWD Survey										
9,245.15	96.30	324.30	3,769.07	5,267.78	-2,492.71	1,786,610.44	1,357,735.45	5,827.03	0.00	
M&M Farms 17 2H PBHL (11.14) - M&M Farms 17 2H PBHL (11.10) - M&M Farms 17 2H PBHL										
9,265.00	96.30	324.30	3,766.89	5,283.80	-2,504.22	1,786,626.47	1,357,723.94	5,846.50	0.00	
Projection to TD										

Survey Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
4,234.00	3,802.33	786.82	-286.01	7" Casing Point	
9,211.00	3,772.82	5,240.22	-2,472.90	Last MWD Survey	
9,265.00	3,766.89	5,283.80	-2,504.22	Projection to TD	

Checked By: _____ Approved By: _____ Date: _____