



Confidentiality Requested:

Yes No

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: _____

1234565

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	Debes 32 #1H
Doc ID	1234565

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	65	160	H	144	
Intermediate	12.25	9.625	36	1514	A	605	2% CC + 1/4# celloflake
Intermediate	8.75	7	26	4384	A	220	5% Gyp + 10% salt
Production	6.125	4.50	11.6	8815	Prem H	400	.2% SASL + 1/4# celloflake
Production	6.125	5.50	17	8815	Prem H	400	.2% SASL + 1/4# celloflake

Summary of Changes

Lease Name and Number: Debes 32 #1H

API/Permit #: 15-155-21696-01-00

Doc ID: 1234565

Correction Number: 1

Approved By: NAOMI JAMES

Field Name	Previous Value	New Value
Approved Date	09/25/2014	12/09/2014
Save Link	../../../../kcc/detail/operatorEditDetail.cfm?docID=1221479	../../../../kcc/detail/operatorEditDetail.cfm?docID=1234565
Well Type	GAS	OIL



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1221479
OIL & GAS CONSERVATION DIVISION

Form ACO-1
August 2013

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

CONFIDENTIAL 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: _____

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 Geologist Report / Mud Logs <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				

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
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)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____			
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> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

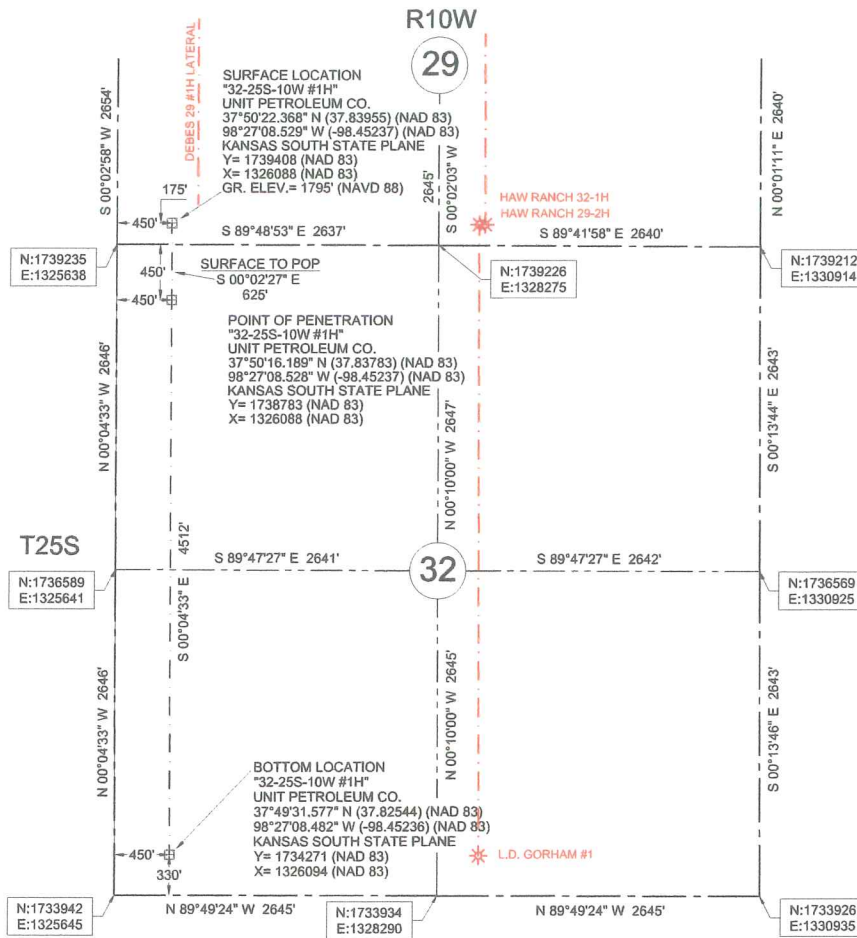
TUBING RECORD:	Size:	Set At:	Packer At:
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Form	ACO1 - Well Completion
Operator	Unit Petroleum Company
Well Name	Debes 32 #1H
Doc ID	1221479

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	65	160	H	144	
Intermediate	12.25	9.625	36	1514	A	605	2% CC + 1/4# celloflake
Intermediate	8.75	7	26	4384	A	220	5% Gyp + 10% salt
Production	6.125	4.50	11.6	8815	Prem H	400	.2% SASL + 1/4# celloflake
Production	6.125	5.50	17	8815	Prem H	400	.2% SASL + 1/4# celloflake

Section 29 and 32, T 25 S, R 10 W., Reno County, Kansas.



LEGEND

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

0' 1200' 2400' 3600'



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

Description: Surface Hole Location Stake
"32-25S-10W #1H" situated 175 feet from the south section line and 450 feet from the west section line of Section 29, T 25 S, R 10 W., Reno County, Kansas.

Description: Point of Penetration
"32-25S-10W #1H" situated 450 feet from the north section line and 450 feet from the west section line of Section 32, T 25 S, R 10 W., Reno County, Kansas.

Description: Bottom Location
"32-25S-10W #1H" situated 330 feet from the south section line and 450 feet from the west section line of Section 32, T 25 S, R 10 W., Reno County, Kansas.



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



Buried utilities are not necessarily shown. It is the contractor's responsibility to locate and preserve all utility services.



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

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

JOB	DATE OF PLAT	SCALE	SHEET
209-14	04-17-2014	1"=1200'	1 OF 5
DRAWN BY C.M.G.	OKLA. CA #2064, EXP. 06/30/2015 KANSAS CA #143, EXP. 12/31/2014		



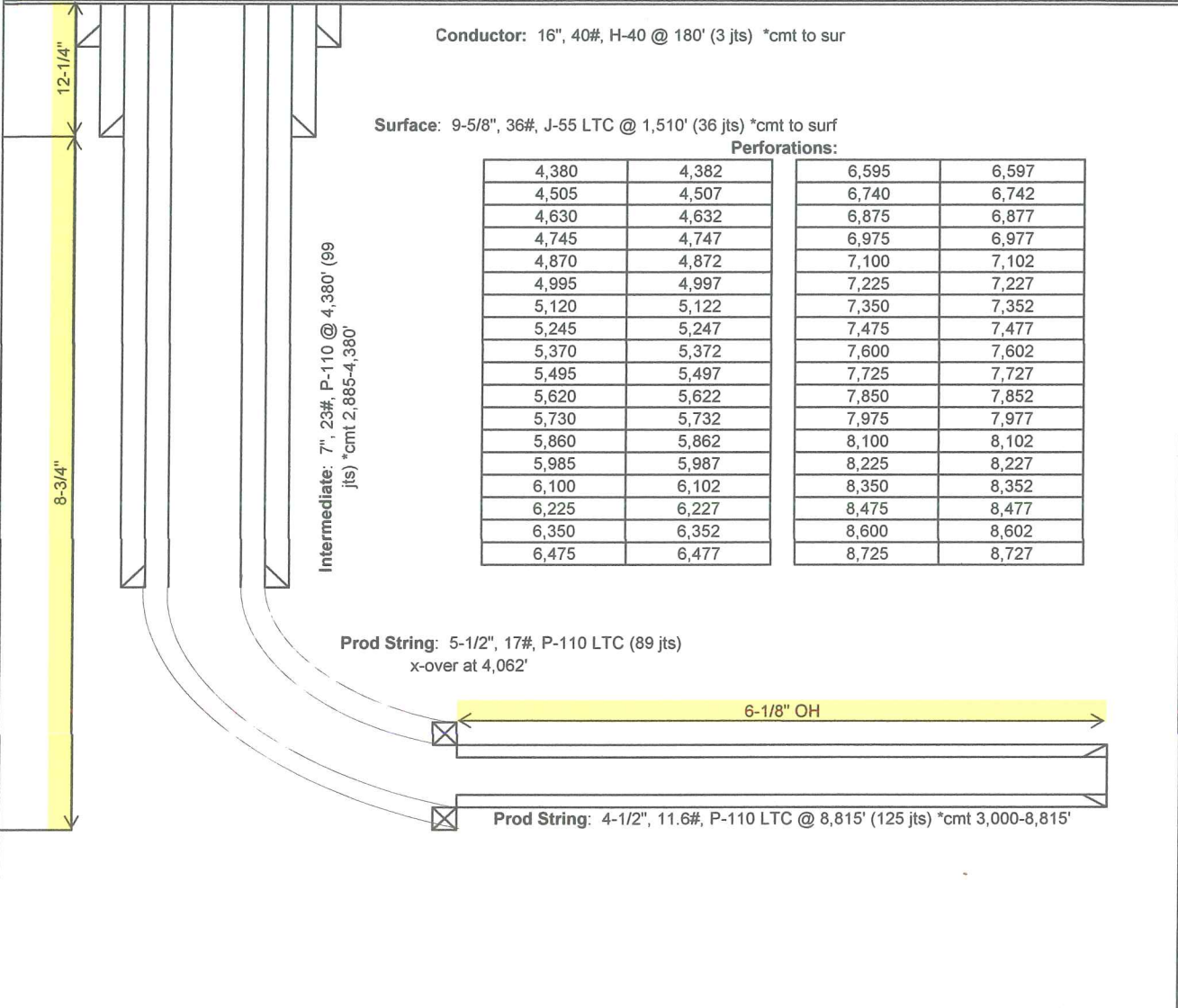
Unit Petroleum Company

Date of Last Revision:
8-Sep-14

Well: Debes 32 #1H
Location: 29-25S-10W
County, State: Reno County, KS
Surface Location: 175' FSL and 450' FWL

API No.: 1515521696
Rig: Unit Drilling #331
Engineer: Tom Carrington (918) 477-4535
Geology: Rob Wilson (918) 477-5728

OH Size



Perforations:

4,380	4,382	6,595	6,597
4,505	4,507	6,740	6,742
4,630	4,632	6,875	6,877
4,745	4,747	6,975	6,977
4,870	4,872	7,100	7,102
4,995	4,997	7,225	7,227
5,120	5,122	7,350	7,352
5,245	5,247	7,475	7,477
5,370	5,372	7,600	7,602
5,495	5,497	7,725	7,727
5,620	5,622	7,850	7,852
5,730	5,732	7,975	7,977
5,860	5,862	8,100	8,102
5,985	5,987	8,225	8,227
6,100	6,102	8,350	8,352
6,225	6,227	8,475	8,477
6,350	6,352	8,600	8,602
6,475	6,477	8,725	8,727

Mid-Continent Conductor, LLC

P.O. Box 1570, Woodward, OK 73802
Ph. 580-254-5400 Fax 580-254-3242

CEMENTING REPORT

Operator: Unit Corporation
Well Name: Debes 32-1H
Legal Description: Reno Cnty, KS

Cement Casing Data	
Cementing Date	5/31/14
Size of Drill Bit (Inches)	28
Size of Casing (Inches O.D.)	16
Setting Depth of Casing (ft.) from ground level	160
Type of Cement	Common Cement
Sacks of Cement Used	144
Was cement circulated?	Yes
Job witnessed by: Spencer Brownlee	



Jeff M. Owen
Mid-Continent Conductor, LLC

BASIC

energy services, L.P.

TREATMENT REPORT

Customer <i>UNIT Petroleum</i>	Lease No.	Date <i>06-05-14</i>	
Lease <i>DEBES</i>	Well # <i>32 1H</i>		
Field Order # <i>10880</i>	Station <i>PRATT KS</i>	Casing <i>9 5/8</i>	Depth <i>1514'</i>
Type Job <i>CNW</i>	Formation <i>9 5/8 Sandstone</i>	County <i>RENO</i>	State <i>KS</i>
		Legal Description <i>29-25-10</i>	

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size <i>9 5/8</i>	Tubing Size	Shots/Ft		Acid		RATE	PRESS	ISIP
Depth <i>1514</i>	Depth	From	To	Pre Pad		Max		5 Min.
Volume <i>117</i>	Volume	From	To	Pad		Min		10 Min.
Max Press <i>4,000</i>	Max Press	From	To	Frac		Avg		15 Min.
Well Connection <i>P.C.</i>	Annulus Vol.	From	To			HHP Used		Annulus Pressure
Plug Depth <i>1514'</i>	Packer Depth	From	To	Flush		Gas Volume		Total Load

Customer Representative	Station Manager <i>DAVE SETH</i>	Treater <i>Robert Sullivan</i>
Service Units <i>37900 77686 19909 70959 19918 19960 21010</i>		
Driver Names <i>Sullivan mcgraw Phyc</i>		

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>8:30</i>					<i>on loc softy meet</i>
					<i>CASING ON BOTTOM</i>
					<i>Rig circ csg.</i>
<i>9:35</i>			<i>3</i>	<i>3.5</i>	<i>1st SPACER</i>
				<i>5.5</i>	<i>Mix 325 sk A CON 3%cc 1/4 CF 2.47 gal/sk</i>
			<i>143</i>		<i>14.49 gal/sk mix 12 pp.</i>
					<i>Mix 280 sk com 2%cc 1/4 CF 1.20 gal/sk</i>
			<i>60</i>		<i>5.23 gal/sk mix 15.15 pp.</i>
					<i>cont mind shut down</i>
					<i>Release Plug</i>
				<i>5</i>	<i>1st Disp</i>
					<i>lift</i>
	<i>500</i>			<i>3.5</i>	<i>Slow Rate</i>
<i>10:45</i>	<i>1,000</i>		<i>117</i>		<i>Plug down</i>
					<i>Release Psi float 4.1d</i>
					<i>circ 45 DPL cont pit</i>
					<i>5013 Complete</i>
					<i>Thank you</i>

Customer <i>Unit Petroleum</i>	Lease No.	Date <i>6-9-2024</i>
Lease <i>Debos</i>	Well # <i>32-1H</i>	
Field Order # <i>10666</i>	Station <i>Pratt, KS</i>	Casing <i>7"</i>
	Depth <i>4384</i>	County <i>Peno</i>
Type Job <i>CNW/ INTERMEDIATE INTERMEDIATE</i>	Formation <i>TD-4380</i>	Legal Description <i>29-25-10</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>4384</i>	Depth	From	To	Pad	Min		10 Min.	
Volume <i>172</i>	Volume	From	To	Frac	Avg		15 Min.	
Max Press	Max Press	From	To		HHP Used		Annulus Pressure	
Well Connection	Annulus Vol.	From	To	Flush	Gas Volume		Total Load	
Plug Depth <i>4384</i>	Packer Depth	From	To					

Customer Representative	Station Manager <i>Kevin Goraley</i>	Treater <i>Darin Franklin</i>
Service Units <i>27283 77686 19905 19959 73768</i>		
Driver Names <i>Darin McGrath McGrath Josh Josh</i>		

Time	Casing Pressure	Tubing Pressure	Bbbs. Pumped	Rate	Service Log
<i>9:00am</i>					<i>on location / safety meeting</i>
<i>10:00</i>	<i>250</i>		<i>5</i>	<i>4</i>	<i>Pump 5 bbls water</i>
	<i>250</i>		<i>12</i>	<i>4</i>	<i>12 bbls Flush</i>
	<i>250</i>		<i>5</i>	<i>4</i>	<i>5 bbls water</i>
	<i>250</i>			<i>6</i>	<i>mix 220 Sx A102 Cement</i>
					<i>Shut down</i>
					<i>Release plus</i>
	<i>100</i>		<i>0</i>	<i>6 1/2</i>	<i>Spore displacement</i>
	<i>1,000</i>		<i>130</i>	<i>6 1/2</i>	<i>4 1/2 pressure</i>
	<i>900</i>		<i>160</i>	<i>3</i>	<i>Slow Rate</i>
<i>11:00pm</i>	<i>1500</i>		<i>167</i>	<i>3</i>	<i>Bump plus</i>
					<i>Flow did hold</i>
<i>11:00</i>					<i>Job complete / Darin & crew</i>
					<i>Thank you!!!</i>

BASIC

energy services, L.P.

TREATMENT REPORT

Customer UNIT Petroleum	Lease No.	Date 06-17-14	
Lease DEKES	Well # 32-14		
Field Order # 10886	Station Pratt KS	Casing 4 1/2	Depth
Type Job CNW 4 1/2 Linner	Formation	County RENO	State KS
		Legal Description 29-25-10	

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
5 1/2	4 1/2			Pre Pad	Max		5 Min.	
Depth 4060	Depth 4061	From	To	Pad	Min		10 Min.	
Volume 94	Volume 69	From	To	Frac	Avg		15 Min.	
Max Press	Max Press	From	To				HHP Used	
Well Connection	Annulus Vol.	From	To	Flush	Gas Volume		Annulus Pressure	
Plug Depth	Packer Depth	From	To				Total Load	

Customer Representative	Station Manager DAVE SCOTT	Treater Robert Sullivan
-------------------------	--------------------------------------	-----------------------------------

Service Units	37900	27463	19831	19862					
Driver Names	Sullivan	GRAVES	Cobble						

Time	Casing Pressure	Tubing Pressure	Bbbs. Pumped	Rate	Service Log
12:20					on loc safety meeting
					Rig circulating csp on bottom
1:20	350		5	3.5	8t spacer
			12		8t mud flush
			5		spacer
				4.5	mix cmt 400 sk 50/50 pot 1.52 yield
					7.17 gal/sk wt 13.8 ppg.
			105		cmt mixed shut down
			1		run up ONE BBL SUPAK 4 1/2
					shut down low plug
	300		40	5.5	8t disp. First 40 BBL SUPAK 4 1/2
	600		155	3.	lift ps.
2:30	2,100		104		slow rate
					plug down
					Release ps. Float Hold.
					JOB Complete
					→ change →

Unit Petroleum

Reno County, Kansas [NAD 83]

Section 29 T25S-R10W

Debes 32 #1H

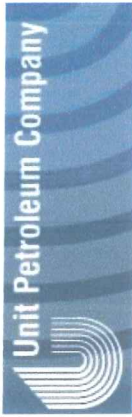
OH

Design: OH

Standard Survey Report

16 June, 2014





Unit Petroleum
 Project: Reno County, Kansas [NAD 83]
 Site: Section 29 T25S-R10W
 Well: Debes 32 #1H
 Wellbore: OH
 Design: Design #1
 Lat: 37° 50' 22.365 N
 Long: 98° 27' 8.526 W
 Pad GL: 1795.00
 KB: 14' KB @ 1809.00usft (UDI 331)



SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3372.28	0.00	0.00	3372.28	0.00	0.00	0.00	0.00	0.00
3922.28	56.00	179.93	3841.62	0.00	0.00	0.00	244.32	244.32
4072.28	56.00	179.93	3927.66	-244.32	0.30	179.93	367.20	367.20
4362.52	89.83	179.93	4014.00	-639.63	0.78	0.00	639.63	639.63
5362.51	89.83	179.93	4017.00	-1639.62	1.98	0.00	1639.62	1639.62
5362.51	89.83	179.93	4020.00	-2639.61	3.18	0.00	2639.62	2639.62
5362.51	89.83	179.93	4023.00	-3639.61	4.38	0.00	3639.61	3639.61
8362.51	89.83	179.93	4026.99	-4639.60	5.58	0.00	4639.61	4639.61
8362.51	89.83	179.93	4026.02	-4645.50	5.59	0.00	4645.50	4645.50
8860.24	89.86	179.96	4029.00	-5137.32	6.00	0.00	5137.33	5137.33

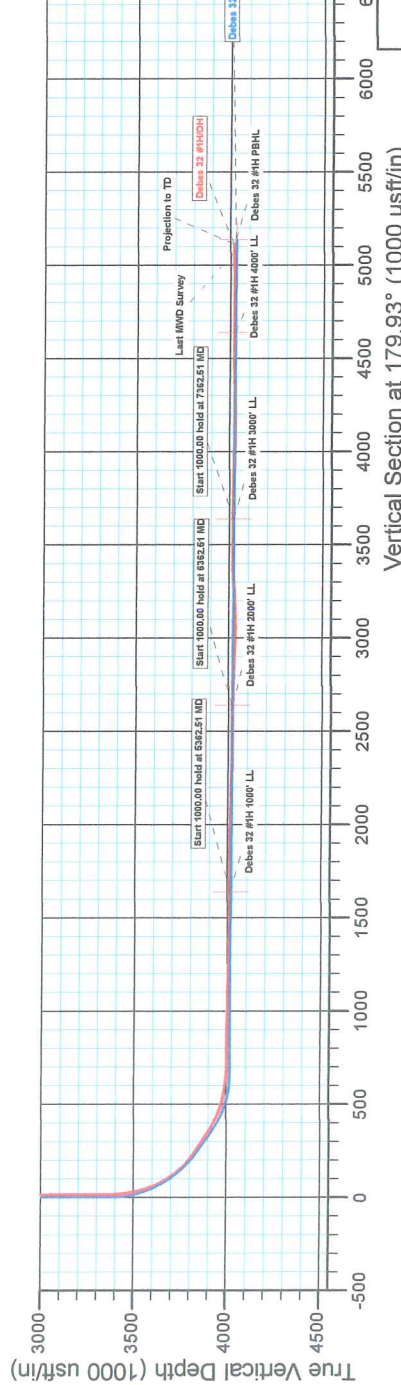
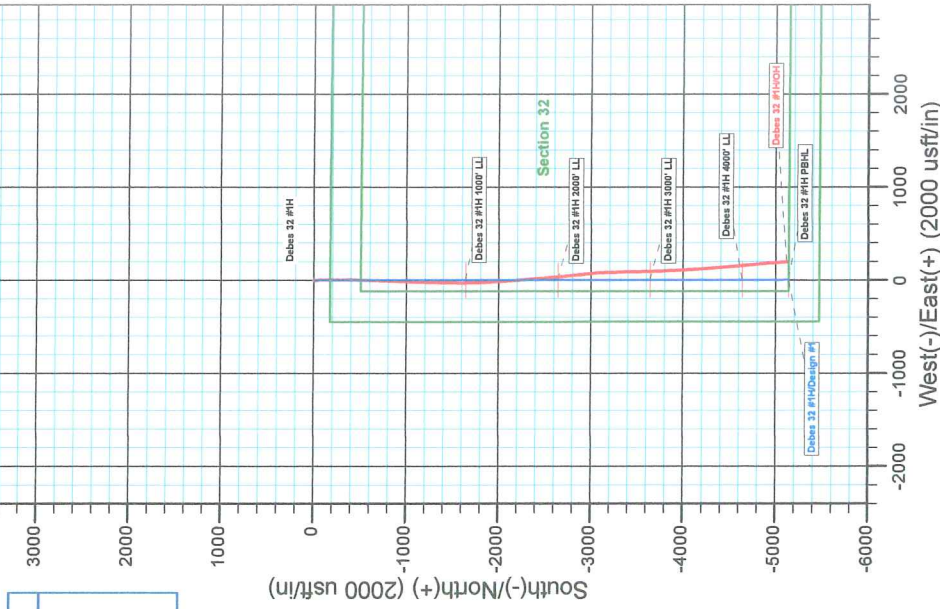
WELL DETAILS: Debes 32 #1H

+N/-S	+E/-W	Northing	Ground Level:	Latitude	Longitude	Slot
0.00	0.00	1739408.00	1795.00	37° 50' 22.365 N	98° 27' 8.526 W	

WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Longitude	Shape Point
Debes 32 #1H 1000' LL	4017.00	-1639.62	1.98	98° 27' 8.512 W	Point
Debes 32 #1H 2000' LL	4020.00	-2639.61	3.18	98° 27' 8.504 W	Point
Debes 32 #1H 3000' LL	4023.00	-3639.61	4.38	98° 27' 8.485 W	Point
Debes 32 #1H 4000' LL	4026.00	-4639.60	5.58	98° 27' 8.486 W	Point
Debes 32 #1H PBHL	4029.00	-5137.32	6.00	98° 27' 8.484 W	Point

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



Vertical Section at 179.93° (1000 usft/in)

Plan: Design #1 (Debes 32 #1H/OH)

Created By: Derek Stephens Date: 6/13, June 16 2014

Company:	Unit Petroleum	Local Co-ordinate Reference:	Well Debes 32 #1H
Project:	Reno County, Kansas [NAD 83]	TVD Reference:	14' KB @ 1809.00usft (UDI 331)
Site:	Section 29 T25S-R10W	MD Reference:	14' KB @ 1809.00usft (UDI 331)
Well:	Debes 32 #1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

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 29 T25S-R10W				
Site Position:		Northing:	1,739,399.00 usft	Latitude:	37° 50' 22.262 N
From:	Map	Easting:	1,328,604.00 usft	Longitude:	98° 26' 37.161 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.03 °

Well	Debes 32 #1H					
Well Position	+N/-S	0.00 usft	Northing:	1,739,408.00 usft	Latitude:	37° 50' 22.365 N
	+E/-W	0.00 usft	Easting:	1,326,088.00 usft	Longitude:	98° 27' 8.526 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	1,795.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	5/30/2014	4.61	65.73	52,009

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	179.93	

Survey Program	Date	6/16/2014			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
100.00	3,180.00	Gyro (OH)	CB-GYRO-MS	Camera based gyro multishot	
3,297.00	8,825.00	MWD (OH)	MWD	MWD - Standard	

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
100.00	0.41	195.26	100.00	-0.35	-0.09	0.35	0.41	0.41	0.00	
200.00	0.27	178.98	200.00	-0.93	-0.18	0.93	0.17	-0.14	-16.28	
300.00	0.36	194.85	300.00	-1.47	-0.26	1.46	0.12	0.09	15.87	
400.00	0.42	211.36	399.99	-2.08	-0.53	2.08	0.13	0.06	16.51	
500.00	0.18	228.59	499.99	-2.50	-0.84	2.50	0.25	-0.24	17.23	
600.00	0.40	259.02	599.99	-2.67	-1.30	2.67	0.26	0.22	30.43	
700.00	0.37	222.28	699.99	-2.97	-1.86	2.97	0.24	-0.03	-36.74	
800.00	0.18	214.21	799.99	-3.34	-2.17	3.34	0.19	-0.19	-8.07	
900.00	0.35	236.34	899.99	-3.64	-2.51	3.64	0.20	0.17	22.13	

Company:	Unit Petroleum	Local Co-ordinate Reference:	Well Debes 32 #1H
Project:	Reno County, Kansas [NAD 83]	TVD Reference:	14' KB @ 1809.00usft (UDI 331)
Site:	Section 29 T25S-R10W	MD Reference:	14' KB @ 1809.00usft (UDI 331)
Well:	Debes 32 #1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
1,000.00	0.32	240.45	999.98	-3.95	-3.01	3.95	0.04	-0.03	4.11
1,100.00	0.23	218.17	1,099.98	-4.24	-3.37	4.24	0.14	-0.09	-22.28
1,200.00	0.38	233.53	1,199.98	-4.60	-3.76	4.60	0.17	0.15	15.36
1,300.00	0.19	216.65	1,299.98	-4.93	-4.13	4.93	0.21	-0.19	-16.88
1,400.00	0.30	201.69	1,399.98	-5.31	-4.32	5.30	0.13	0.11	-14.96
1,500.00	0.36	236.07	1,499.98	-5.72	-4.68	5.72	0.20	0.06	34.38
1,600.00	0.35	218.52	1,599.98	-6.14	-5.13	6.13	0.11	-0.01	-17.55
1,700.00	0.35	220.45	1,699.97	-6.61	-5.52	6.60	0.01	0.00	1.93
1,800.00	0.48	216.99	1,799.97	-7.18	-5.97	7.17	0.13	0.13	-3.46
1,900.00	0.42	201.95	1,899.97	-7.85	-6.36	7.84	0.13	-0.06	-15.04
2,000.00	0.42	219.36	1,999.97	-8.48	-6.73	8.47	0.13	0.00	17.41
2,100.00	0.45	199.75	2,099.96	-9.13	-7.10	9.12	0.15	0.03	-19.61
2,200.00	0.43	197.21	2,199.96	-9.86	-7.34	9.85	0.03	-0.02	-2.54
2,300.00	0.50	203.84	2,299.96	-10.61	-7.63	10.61	0.09	0.07	6.63
2,400.00	0.52	184.67	2,399.95	-11.47	-7.84	11.46	0.17	0.02	-19.17
2,500.00	0.41	174.20	2,499.95	-12.27	-7.84	12.26	0.14	-0.11	-10.47
2,600.00	0.13	135.82	2,599.95	-12.71	-7.73	12.70	0.32	-0.28	-38.38
2,700.00	0.23	93.90	2,699.95	-12.81	-7.45	12.80	0.16	0.10	-41.92
2,800.00	0.37	93.41	2,799.95	-12.84	-6.92	12.83	0.14	0.14	-0.49
2,900.00	0.44	93.55	2,899.94	-12.88	-6.22	12.87	0.07	0.07	0.14
3,000.00	0.46	102.28	2,999.94	-12.99	-5.44	12.98	0.07	0.02	8.73
3,100.00	0.52	134.90	3,099.94	-13.40	-4.73	13.39	0.28	0.06	32.62
3,180.00	0.46	137.74	3,179.94	-13.89	-4.26	13.89	0.08	-0.08	3.55
3,297.00	0.40	132.20	3,296.93	-14.51	-3.64	14.51	0.06	-0.05	-4.74
3,329.00	0.30	155.90	3,328.93	-14.66	-3.52	14.66	0.54	-0.31	74.06
3,361.00	0.70	145.40	3,360.93	-14.90	-3.38	14.90	1.28	1.25	-32.81
3,393.00	2.60	154.50	3,392.92	-15.72	-2.95	15.71	5.98	5.94	28.44
3,425.00	5.40	163.20	3,424.83	-17.81	-2.20	17.81	8.93	8.75	27.19
3,457.00	8.40	165.80	3,456.60	-21.52	-1.20	21.52	9.42	9.38	8.13
3,488.00	10.80	168.10	3,487.16	-26.56	-0.04	26.56	7.84	7.74	7.42
3,520.00	13.30	172.30	3,518.46	-33.14	1.07	33.14	8.27	7.81	13.13
3,552.00	16.00	176.80	3,549.41	-41.20	1.81	41.20	9.15	8.44	14.06
3,583.00	19.30	178.90	3,578.95	-50.59	2.15	50.59	10.84	10.65	6.77
3,615.00	23.00	178.50	3,608.79	-62.13	2.41	62.13	11.57	11.56	-1.25
3,646.00	26.70	178.30	3,636.91	-75.15	2.78	75.15	11.94	11.94	-0.65
3,678.00	30.40	179.20	3,665.02	-90.43	3.10	90.44	11.64	11.56	2.81
3,710.00	33.80	180.90	3,692.12	-107.43	3.08	107.44	10.99	10.63	5.31
3,742.00	36.70	181.30	3,718.25	-125.90	2.72	125.90	9.09	9.06	1.25
3,772.00	40.40	180.30	3,741.71	-144.59	2.47	144.59	12.51	12.33	-3.33
3,804.00	44.80	179.70	3,765.26	-166.24	2.47	166.25	13.81	13.75	-1.88
3,836.00	49.00	179.40	3,787.12	-189.60	2.66	189.61	13.14	13.13	-0.94
3,868.00	53.00	179.90	3,807.25	-214.47	2.81	214.47	12.56	12.50	1.56
3,899.00	55.80	180.20	3,825.30	-239.67	2.78	239.67	9.07	9.03	0.97

Company:	Unit Petroleum	Local Co-ordinate Reference:	Well Debes 32 #1H
Project:	Reno County, Kansas [NAD 83]	TVD Reference:	14' KB @ 1809.00usft (UDI 331)
Site:	Section 29 T25S-R10W	MD Reference:	14' KB @ 1809.00usft (UDI 331)
Well:	Debes 32 #1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
3,930.00	56.10	180.00	3,842.66	-265.35	2.74	265.36	1.11	0.97	-0.65	
3,962.00	56.30	179.90	3,860.46	-291.95	2.76	291.95	0.68	0.63	-0.31	
3,993.00	56.60	179.80	3,877.59	-317.78	2.83	317.78	1.00	0.97	-0.32	
4,025.00	56.80	179.90	3,895.16	-344.53	2.90	344.53	0.68	0.63	0.31	
4,060.00	58.20	180.30	3,913.96	-374.04	2.85	374.05	4.11	4.00	1.14	
4,089.00	61.80	180.80	3,928.46	-399.15	2.60	399.16	12.50	12.41	1.72	
4,121.00	65.60	181.40	3,942.64	-427.83	2.05	427.83	11.99	11.88	1.88	
4,152.00	68.30	182.00	3,954.77	-456.34	1.20	456.34	8.89	8.71	1.94	
4,184.00	71.20	181.90	3,965.85	-486.34	0.18	486.34	9.07	9.06	-0.31	
4,216.00	74.30	181.30	3,975.34	-516.89	-0.67	516.89	9.85	9.69	-1.88	
4,248.00	77.10	181.50	3,983.24	-547.88	-1.43	547.88	8.77	8.75	0.63	
4,279.00	80.00	181.80	3,989.39	-578.25	-2.30	578.25	9.40	9.35	0.97	
4,310.00	82.90	181.90	3,994.00	-608.89	-3.29	608.88	9.36	9.35	0.32	
4,339.00	86.40	182.00	3,996.71	-637.74	-4.28	637.73	12.07	12.07	0.34	
4,417.00	89.40	182.20	3,999.56	-715.62	-7.13	715.62	3.85	3.85	0.26	
4,480.00	89.60	182.00	4,000.11	-778.58	-9.44	778.57	0.45	0.32	-0.32	
4,542.00	89.60	181.90	4,000.55	-840.54	-11.55	840.53	0.16	0.00	-0.16	
4,605.00	90.00	181.90	4,000.77	-903.51	-13.64	903.49	0.63	0.63	0.00	
4,665.00	89.10	182.00	4,001.24	-963.47	-15.68	963.45	1.51	-1.50	0.17	
4,726.00	89.40	182.00	4,002.04	-1,024.43	-17.81	1,024.41	0.49	0.49	0.00	
4,789.00	89.60	181.80	4,002.59	-1,087.39	-19.90	1,087.37	0.45	0.32	-0.32	
4,851.00	89.20	181.80	4,003.23	-1,149.36	-21.84	1,149.33	0.65	-0.65	0.00	
4,913.00	88.30	181.60	4,004.59	-1,211.31	-23.68	1,211.29	1.49	-1.45	-0.32	
4,976.00	88.40	181.20	4,006.40	-1,274.27	-25.22	1,274.24	0.65	0.16	-0.63	
5,038.00	88.90	181.10	4,007.86	-1,336.24	-26.47	1,336.21	0.82	0.81	-0.16	
5,100.00	89.80	180.90	4,008.56	-1,398.22	-27.55	1,398.19	1.49	1.45	-0.32	
5,160.00	90.50	180.50	4,008.41	-1,458.22	-28.28	1,458.19	1.34	1.17	-0.67	
5,222.00	90.50	180.20	4,007.87	-1,520.22	-28.66	1,520.18	0.48	0.00	-0.48	
5,283.00	89.00	179.80	4,008.13	-1,581.21	-28.66	1,581.18	2.54	-2.46	-0.66	
5,341.78	89.09	179.33	4,009.11	-1,639.99	-28.21	1,639.95	0.82	0.16	-0.81	
Debes 32 #1H 1000' LL										
5,345.00	89.10	179.30	4,009.16	-1,643.20	-28.17	1,643.17	0.82	0.16	-0.81	
5,406.00	89.30	179.00	4,010.01	-1,704.19	-27.27	1,704.16	0.59	0.33	-0.49	
5,468.00	89.90	178.20	4,010.45	-1,766.17	-25.75	1,766.14	1.61	0.97	-1.29	
5,529.00	90.40	177.70	4,010.29	-1,827.13	-23.57	1,827.10	1.16	0.82	-0.82	
5,591.00	88.90	177.10	4,010.66	-1,889.06	-20.76	1,889.04	2.61	-2.42	-0.97	
5,652.00	88.80	176.60	4,011.89	-1,949.96	-17.41	1,949.94	0.84	-0.16	-0.82	
5,714.00	89.20	176.20	4,012.97	-2,011.83	-13.52	2,011.81	0.91	0.65	-0.65	
5,776.00	89.00	175.90	4,013.94	-2,073.67	-9.25	2,073.66	0.58	-0.32	-0.48	
5,836.00	88.60	175.70	4,015.20	-2,133.50	-4.85	2,133.49	0.75	-0.67	-0.33	
5,896.00	88.90	175.70	4,016.51	-2,193.31	-0.35	2,193.31	0.50	0.50	0.00	
5,958.00	89.00	175.80	4,017.65	-2,255.13	4.24	2,255.14	0.23	0.16	0.16	
6,019.00	89.30	175.50	4,018.55	-2,315.95	8.87	2,315.96	0.70	0.49	-0.49	

Company:	Unit Petroleum	Local Co-ordinate Reference:	Well Debes 32 #1H
Project:	Reno County, Kansas [NAD 83]	TVD Reference:	14' KB @ 1809.00usft (UDI 331)
Site:	Section 29 T25S-R10W	MD Reference:	14' KB @ 1809.00usft (UDI 331)
Well:	Debes 32 #1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
6,081.00	89.40	175.60	4,019.25	-2,377.76	13.68	2,377.77	0.23	0.16	0.16	
6,142.00	89.80	175.40	4,019.68	-2,438.57	18.46	2,438.59	0.73	0.66	-0.33	
6,204.00	89.80	175.20	4,019.90	-2,500.36	23.54	2,500.39	0.32	0.00	-0.32	
6,265.00	89.80	174.90	4,020.11	-2,561.13	28.81	2,561.16	0.49	0.00	-0.49	
6,327.00	89.80	175.40	4,020.33	-2,622.91	34.05	2,622.95	0.81	0.00	0.81	
6,341.17	89.73	175.40	4,020.38	-2,637.04	35.18	2,637.08	0.49	-0.49	0.00	
Debes 32 #1H 2000' LL										
6,388.00	89.50	175.40	4,020.70	-2,683.71	38.94	2,683.76	0.49	-0.49	0.00	
6,450.00	88.90	174.40	4,021.56	-2,745.46	44.45	2,745.51	1.88	-0.97	-1.61	
6,512.00	88.40	174.20	4,023.03	-2,807.14	50.61	2,807.19	0.87	-0.81	-0.32	
6,576.00	88.50	173.90	4,024.76	-2,870.77	57.24	2,870.83	0.49	0.16	-0.47	
6,640.00	88.30	174.10	4,026.54	-2,934.39	63.93	2,934.46	0.44	-0.31	0.31	
6,702.00	88.20	174.20	4,028.44	-2,996.04	70.24	2,996.12	0.23	-0.16	0.16	
6,765.00	89.20	174.30	4,029.87	-3,058.71	76.55	3,058.79	1.60	1.59	0.16	
6,829.00	90.60	176.90	4,029.98	-3,122.51	81.46	3,122.60	4.61	2.19	4.06	
6,892.00	93.00	178.50	4,028.00	-3,185.42	83.99	3,185.52	4.58	3.81	2.54	
6,956.00	93.40	178.50	4,024.43	-3,249.30	85.66	3,249.40	0.63	0.63	0.00	
7,018.00	92.00	178.60	4,021.51	-3,311.21	87.23	3,311.31	2.26	-2.26	0.16	
7,082.00	91.00	179.10	4,019.83	-3,375.17	88.51	3,375.28	1.75	-1.56	0.78	
7,146.00	89.90	178.90	4,019.33	-3,439.16	89.63	3,439.26	1.75	-1.72	-0.31	
7,210.00	90.60	179.10	4,019.05	-3,503.15	90.75	3,503.25	1.14	1.09	0.31	
7,273.00	90.30	179.10	4,018.55	-3,566.14	91.74	3,566.25	0.48	-0.48	0.00	
7,337.00	90.10	178.70	4,018.33	-3,630.13	92.96	3,630.23	0.70	-0.31	-0.63	
7,344.09	90.05	178.64	4,018.32	-3,637.22	93.13	3,637.32	1.02	-0.63	-0.79	
Debes 32 #1H 3000' LL										
7,400.00	89.70	178.20	4,018.44	-3,693.11	94.67	3,693.21	1.02	-0.63	-0.79	
7,463.00	89.30	177.00	4,018.99	-3,756.05	97.31	3,756.16	2.01	-0.63	-1.90	
7,525.00	89.10	177.80	4,019.86	-3,817.98	100.12	3,818.09	1.33	-0.32	1.29	
7,589.00	88.70	177.20	4,021.08	-3,881.90	102.91	3,882.02	1.13	-0.63	-0.94	
7,652.00	89.40	177.50	4,022.13	-3,944.83	105.82	3,944.95	1.21	1.11	0.48	
7,716.00	89.50	176.90	4,022.74	-4,008.75	108.95	4,008.87	0.95	0.16	-0.94	
7,778.00	89.80	176.50	4,023.12	-4,070.64	112.52	4,070.77	0.81	0.48	-0.65	
7,842.00	89.80	175.80	4,023.35	-4,134.50	116.81	4,134.63	1.09	0.00	-1.09	
7,904.00	89.90	175.70	4,023.51	-4,196.33	121.41	4,196.47	0.23	0.16	-0.16	
7,968.00	90.20	175.70	4,023.45	-4,260.15	126.21	4,260.29	0.47	0.47	0.00	
8,032.00	90.40	175.70	4,023.12	-4,323.97	131.01	4,324.12	0.31	0.31	0.00	
8,096.00	90.90	175.80	4,022.39	-4,387.78	135.75	4,387.94	0.80	0.78	0.16	
8,160.00	90.60	175.50	4,021.55	-4,451.59	140.60	4,451.76	0.66	-0.47	-0.47	
8,223.00	91.60	175.80	4,020.34	-4,514.40	145.38	4,514.57	1.66	1.59	0.48	
8,286.00	89.60	175.30	4,019.68	-4,577.20	150.27	4,577.38	3.27	-3.17	-0.79	
8,335.60	89.60	174.83	4,020.03	-4,626.61	154.54	4,626.79	0.95	0.00	-0.95	
Debes 32 #1H 4000' LL										
8,349.00	89.60	174.70	4,020.12	-4,639.96	155.76	4,640.14	0.95	0.00	-0.95	
8,410.00	89.10	174.30	4,020.82	-4,700.68	161.61	4,700.86	1.05	-0.82	-0.66	



Company:	Unit Petroleum	Local Co-ordinate Reference:	Well Debes 32 #1H
Project:	Reno County, Kansas [NAD 83]	TVD Reference:	14' KB @ 1809.00usft (UDI 331)
Site:	Section 29 T25S-R10W	MD Reference:	14' KB @ 1809.00usft (UDI 331)
Well:	Debes 32 #1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
8,472.00	89.60	174.60	4,021.52	-4,762.38	167.60	4,762.58	0.94	0.81	0.48	
8,536.00	90.60	174.60	4,021.41	-4,826.10	173.62	4,826.30	1.56	1.56	0.00	
8,598.00	90.20	175.30	4,020.97	-4,887.86	179.08	4,888.06	1.30	-0.65	1.13	
8,660.00	91.10	175.50	4,020.27	-4,949.65	184.05	4,949.86	1.49	1.45	0.32	
8,722.00	90.00	175.10	4,019.68	-5,011.44	189.13	5,011.66	1.89	-1.77	-0.65	
8,780.00	90.20	175.10	4,019.57	-5,069.23	194.09	5,069.45	0.34	0.34	0.00	
Last MWD Survey										
8,825.00	90.20	175.10	4,019.42	-5,114.06	197.93	5,114.29	0.00	0.00	0.00	
Projection to TD - Debes 32 #1H PBHL										

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
8,780.00	4,019.57	-5,069.23	194.09	Last MWD Survey	
8,825.00	4,019.42	-5,114.06	197.93	Projection to TD	

Checked By: _____ Approved By: _____ Date: _____