

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1240789
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: _____

1240789

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	Rooney 6 #1H
Doc ID	1240789

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	17.5	13.375	48	214	H	350	2% CC
Intermediate	12.25	9.625	36	1514	A	280	2% CC & 1/4#celloflake
Intermediate	8.75	7	26	4452	AA-2	160	2% CC & 1/4#celloflake
Production	6.125	5.5	17	10095	50/50 POZ	525	2% CC & 1/4#celloflake
Production	6.125	4.5	11.6	10095	50/50 POZ	525	2% CC & 1/4#celloflake



TREATMENT REPORT

Customer <i>Unit Petroleum Company</i>	Lease No.	Date <i>11/28/14</i>	
Lease <i>Rooney</i>	Well # <i>6-1H</i>	County <i>Reno</i>	State <i>KS</i>
Field Order # <i>11839 A</i>	Station <i>Pratt</i>	Casing <i>13 3/8</i>	Depth <i>214</i>
Type Job <i>1 3/8 Conductor Pipe</i>	Formation <i>cnw</i>	Legal Description <i>6-26-10</i>	

PIPE DATA		PERFORATING DATA		FLUID USED	TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP
<i>13 3/8</i>							5 Min.
Depth <i>218</i>	Depth	From	To	Pre Pad	Max		
Volume <i>34.26</i>	Volume	From	To	Pad	Min		10 Min.
Max Press <i>500</i>	Max Press	From	To	Frac	Avg		15 Min.
Well Connection <i>13 3/8</i>	Annulus Vol.	From	To		HHP Used		Annulus Pressure
Plug Depth	Packer Depth	From	To	Flush	Gas Volume		Total Load

Customer Representative <i>Jerry</i>	Station Manager <i>Kevin Goodley</i>	Treater <i>Scott Groves</i>
Service Units <i>38970</i>	<i>77686</i>	<i>19959</i>
Driver Names <i>Scott</i>	<i>Shawn</i>	<i>Aaron</i>

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>12:45</i>					<i>On location Safety meeting Rig up</i>
<i>5:100</i>					<i>Circulate on bottom</i>
<i>5:25</i>	<i>50</i>		<i>3</i>	<i>5.4</i>	<i>Pump H₂O Spacer</i>
<i>5:26</i>	<i>200</i>		<i>83.5</i>	<i>5.2</i>	<i>Mix 350sks Common Cement</i>
					<i>shut down</i>
<i>5:42</i>	<i>50</i>			<i>5</i>	<i>start Displacement</i>
<i>5:43</i>	<i>100</i>		<i>1</i>	<i>5.3</i>	<i>Circulate Cement to Surface</i>
<i>5:50</i>	<i>200</i>		<i>30</i>		<i>Displacement complete</i>
					<i>shut down</i>
<i>5:52</i>	<i>200</i>				<i>shut well head in</i>
					<i>Job complete</i>
					<i>Circulated 30 bbls cement to surface</i>

Customer <i>UNIT Petroleum</i>	Lease No.	Date <i>11-30-14</i>			
Lease <i>ROONEY</i>	Well # <i>0-14</i>				
Field Order # <i>11797</i>	Station <i>PRW-4 K</i>	Casing <i>9 5/8</i>	Depth <i>518'</i>	County <i>Kero</i>	State <i>KS</i>
Type Job <i>CNW 9 5/8 surface</i>	Formation	Legal Description <i>6-26-10</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>518'</i>	Depth	From	To	Pre Pad	Max		5 Min.
Volume <i>117</i>	Volume	From	To	Pad	Min		10 Min.
Max Press <i>1,000</i>	Max Press	From	To	Frac	Avg		15 Min.
Well Connection <i>HC</i>	Annulus Vol.	From	To		HHP Used		Annulus Pressure
Plug Depth <i>518'</i>	Packer Depth	From	To	Flush	Gas Volume		Total Load

Customer Representative	Station Manager <i>Dave Surt</i>	Treater <i>Robert Sullivan</i>
Service Units <i>37900 33708 20920 30464 37724 19827 37725</i>	Driver Names <i>Kulmy EACIA MEDIRA BOWERS</i>	

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>3:50</i>					<i>OD loc</i>
<i>4:50</i>			<i>3</i>	<i>3</i>	<i>st spacer</i>
			<i>143</i>	<i>5</i>	<i>st mixid, cnt 325 st A-cod 3% cc 4cc</i>
			<i>60</i>		<i>st mix Tail cnt 280 st com 2% cc 4cc</i>
					<i>cnt mix-id shut down</i>
					<i>Return Plug</i>
				<i>4.5</i>	<i>st Drop</i>
<i>6:00</i>	<i>1000</i>		<i>117</i>		<i>plug down Float Head</i>
					<i>circulated 45 Bbl cnt P.T</i>
					<i>JOB complete</i>
					<i>Frank J</i>

BASIC

energy services, L.P.

TREATMENT REPORT

Customer: UNIT Petroleum	Lease No.	Date
Lease: ROONEY	Well #: G-1H	12-04-14
Field Order #: 11751	Station: PRATT KC	Casing: OP
Type Job: CDW Plug Back	Depth: 3515'	County: RENO
	Formation	State: KS
		Legal Description: G-26-10

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid		RATE	PRESS	ISIP
D.P.								
Depth: 3515'	Depth	From	To	Pre Pad		Max		5 Min.
Volume	Volume	From	To	Pad		Min		10 Min.
Max Press	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: MARK SOST	Treater: Robert [Signature]
Service Units: 37900 33708 20920 19960 19860		
Driver Names: Sullivan Ernest Cobbe		

Time	Casing Pressure	Tubing Pressure	Bbbls. Pumped	Rate	Service Log
1:30					on loc
					Plug Back @ 3515'
					300 sk con, 5% CFR, 25% defoam
2:30			10	4	SILCAR
			60	5	mix cmt @ 16 ppq.
			3		SILCAR
	130		33	4	MWD
3:00					Shot down TRIP out
					JOB complete
					Thank you [Signature]

Customer <i>UNIT Petroleum</i>	Lease No.	Date <i>12-09-14</i>	
Lease <i>ROONEY</i>	Well # <i>6-1-H</i>		
Field Order # <i>11752</i>	Station <i>PRATT KS</i>	Casing <i>7"</i>	Depth <i>4457'</i>
Type Job <i>CNW 7" INTERNAL</i>	Formation	County <i>RENO</i>	State <i>KI</i>
		Legal Description <i>6-26-10</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>4457'</i>	Depth	From	To	Pad	Min		10 Min.	
Volume <i>171</i>	Volume	From	To	Frac	Avg		15 Min.	
Max Press <i>2500</i>	Max Press	From	To		HHP Used		Annulus Pressure	
Well Connection	Annulus Vol.	From	To	Flush	Gas Volume		Total Load	
Plug Depth <i>4457'</i>	Packer Depth	From	To					

Customer Representative	Station Manager <i>DWIGHT</i>	Treater <i>Robert Sullivan</i>
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Service Units	<i>37900</i>	<i>33708</i>	<i>20920</i>	<i>19959</i>	<i>73768</i>				
Driver Names	<i>Sullivan</i>	<i>Epping</i>		<i>Beady</i>					

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>8:45 AM</i>					<i>ON LOC</i>
					<i>7" O. 4457'</i>
<i>9:30</i>					<i>CASING ON BOTTOM</i>
<i>9:40</i>					<i>Rig wire csg.</i>
<i>10:45</i>			<i>5</i>	<i>3.5</i>	<i>at spacer</i>
			<i>12</i>		<i>at new stage</i>
			<i>5</i>		<i>spacer</i>
			<i>41</i>	<i>4.5</i>	<i>Mix cmt 160 sk AA-2 with Bead.</i>
					<i>cmt mixed shut down</i>
					<i>Release Plug</i>
				<i>6</i>	<i>at Pump</i>
	<i>500</i>				<i>Lift</i>
	<i>850</i>			<i>4</i>	<i>Slow Rate</i>
<i>11:40</i>	<i>1800</i>		<i>171</i>		<i>Plug down</i>
					<i>Release Psi. Float Held</i>
					<i>JOB COMPLETE</i>
					<i>THANK YOU</i>

Customer UNIT Petroleum	Lease No.	Date 12-21-14
Lease Roodney	Well # 6-14	
Field Order # 11759	Station Pratt KS	Casing 5 1/2 / 4 1/2
Type Job cnw 5 1/2 / 4 1/2 Lumen	Formation	Legal Description 6-26-10
	Depth	County Law
		State KS

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
5 1/2	4 1/2							
Depth 4090' 45"	Depth 5762	From	To	Pre Pad	Max		5 Min.	
Volume 94.8	Volume 92.4	From	To	Pad	Min		10 Min.	
Max Press 187	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 DAVE SCOTT	Treater Robert J. Miller
Service Units 37900 33208 20920 19599 73768 70959 19928		
Driver Names Sullivan McPRAW Gibson Phye		

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
7:20					on loc
8:00					CASING ON BOTTOM Rig circ csg.
9:30	500		5	3.5	1st SPACER
			12		mix mud flush
			5		1st spacer
			5		mix cont 525 sk 50/50 percent
			147		CMT mixed
			1 1/2		putting Surfan 420
					shot down
					INSTALL plug and BALL
				6	1st Diap w/ Surfan 420 40 Base
	700		45		Lift
	1500			4	slow Rate
11:00	2500		187		plug down
					check float head
					JOB complete
					THANK YOU



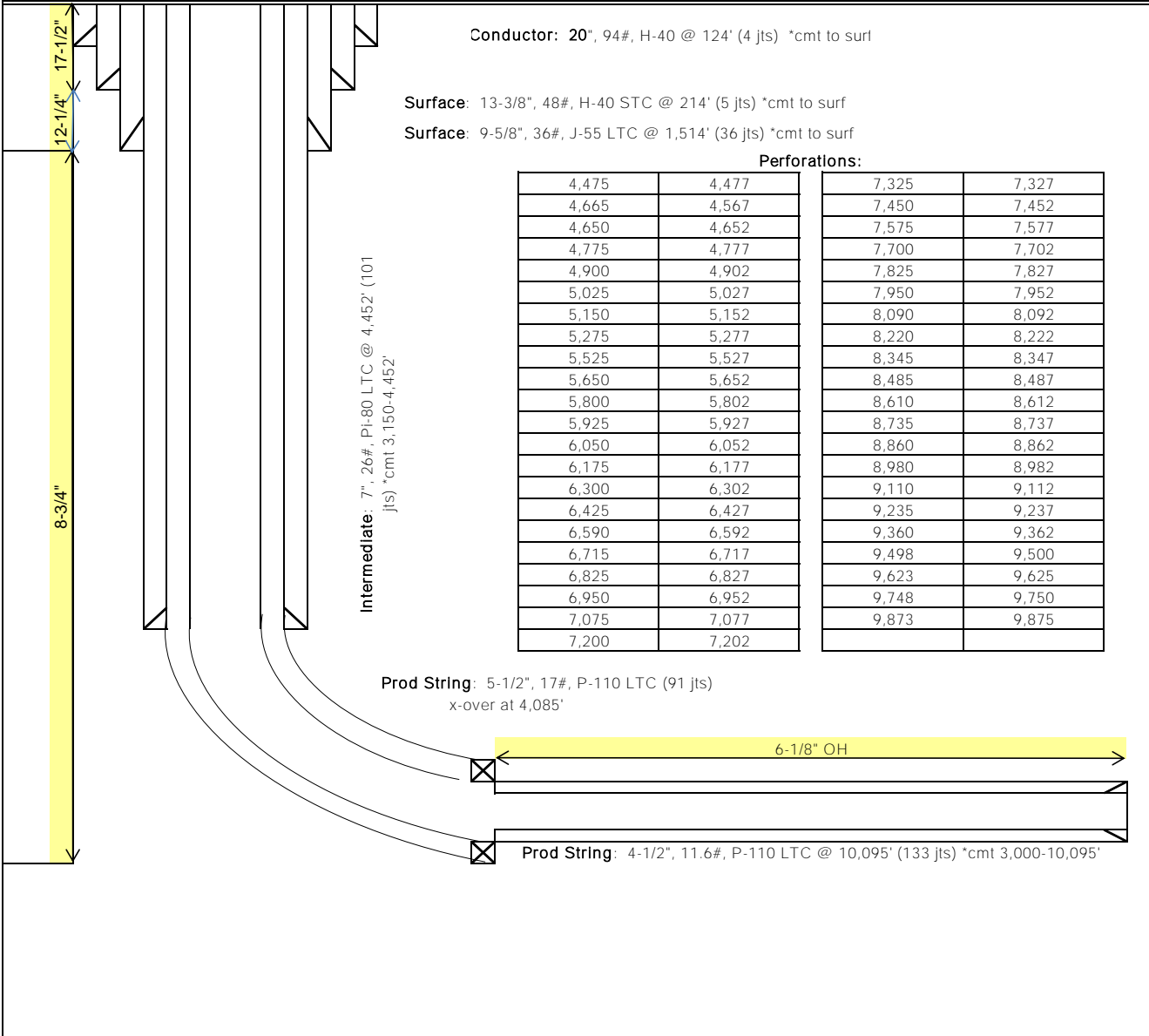
Unit Petroleum Company

Date of Last Revision:
12-Jan-15

Well: Rooney 6 #1H
Location: 6-26S-10W
County, State: Reno County, KS
Surface Location: 165' FSL & 600' FWL

API No.: 1515521716
Rig: Unit Drilling #331
Engineer: Tom Carrington (918) 477-4535
Geology: Rob Wilson (918) 477-5728

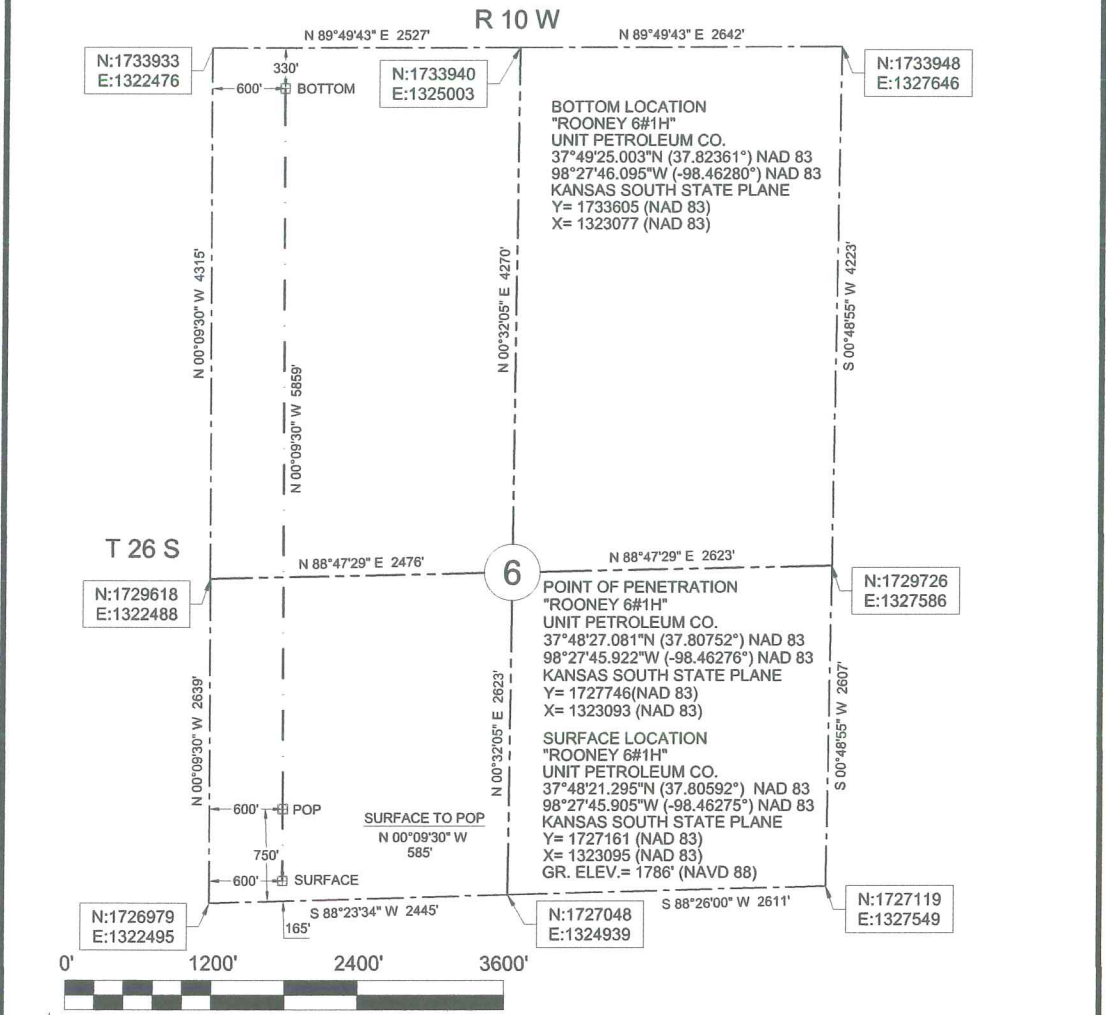
OH Size



Perforations:

4,475	4,477	7,325	7,327
4,665	4,567	7,450	7,452
4,650	4,652	7,575	7,577
4,775	4,777	7,700	7,702
4,900	4,902	7,825	7,827
5,025	5,027	7,950	7,952
5,150	5,152	8,090	8,092
5,275	5,277	8,220	8,222
5,525	5,527	8,345	8,347
5,650	5,652	8,485	8,487
5,800	5,802	8,610	8,612
5,925	5,927	8,735	8,737
6,050	6,052	8,860	8,862
6,175	6,177	8,980	8,982
6,300	6,302	9,110	9,112
6,425	6,427	9,235	9,237
6,590	6,592	9,360	9,362
6,715	6,717	9,498	9,500
6,825	6,827	9,623	9,625
6,950	6,952	9,748	9,750
7,075	7,077	9,873	9,875
7,200	7,202		

Section 6, T 26 S, R 10 W., Reno County, Kansas.



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

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

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.

Description: Surface Hole Location "Rooney 6#1H" situated 165 feet from the south section line and 600 feet from the west section line of Section 6, T 26 S, R 10 W., Reno County, Kansas.

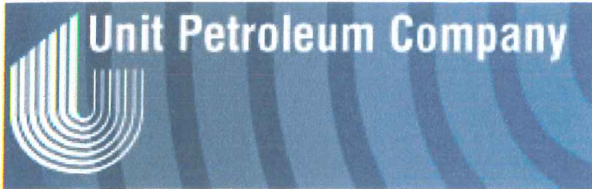
Description: Point of Penetration "Rooney 6#1H" situated 750 feet from the south section line and 600 feet from the west section line of Section 6, T 26 S, R 10 W., Reno County, Kansas.

Description: Bottom Location "Rooney 6#1H" situated 330 feet from the north section line and 600 feet from the west section line of Section 6, T 26 S, R 10 W., Reno County, Kansas.



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

<p>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</p>	<p>Survey For: Unit Petroleum Co. P.O. Box 2726 Woodward, OK 73802 Attn: Jason Rummery</p>		<p>JOB 618-14</p>	<p>DATE OF PLAT 10-30-2014</p>	<p>SCALE 1"=1200'</p>	<p>SHEET 1 OF 5</p>
	<p>DRAWN BY C.M.G.</p>		<p>OKLA. CA #2064, EXP. 06/30/2015 KANSAS CA #143, EXP. 12/31/2014</p>			



Unit Petroleum

Reno County, Kansas [NAD 83]

Section 6 T26S-R10W

Rooney 6 #1H

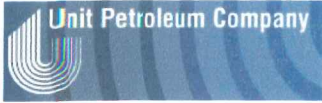
STK

Design: STK

EOW Report

23 December, 2014





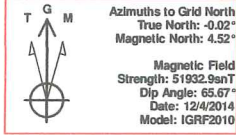
Unit Petroleum
 Project: Reno County, Kansas [NAD 83]
 Site: Section 6 T26S-R10W
 Well: Rooney 6 #1H
 Wellbore: STK
 Design: Design #2
 Lat: 37° 48' 21.297 N
 Long: 98° 27' 45.900 W
 Pad GL: 1786.00
 KB: 14' KB @ 1800.00usft (UDI 331)



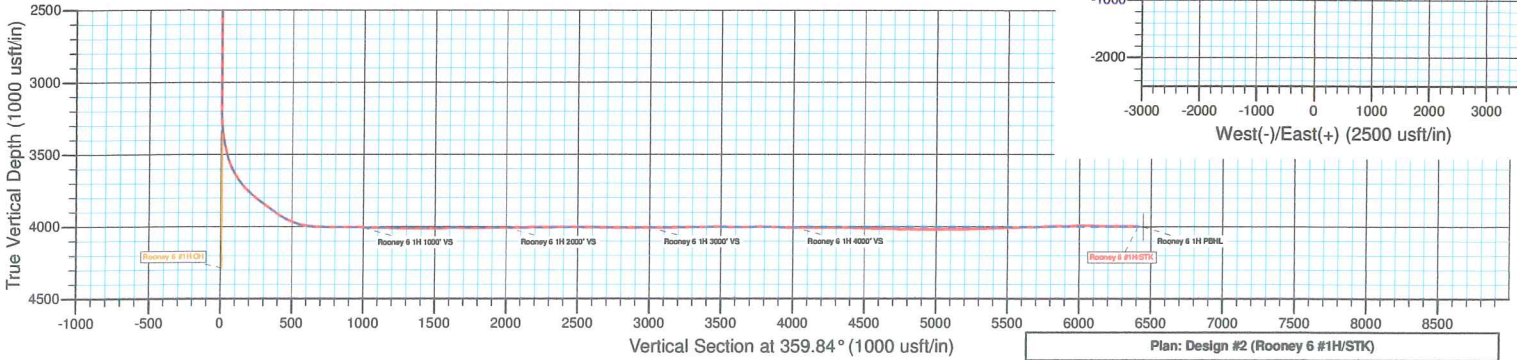
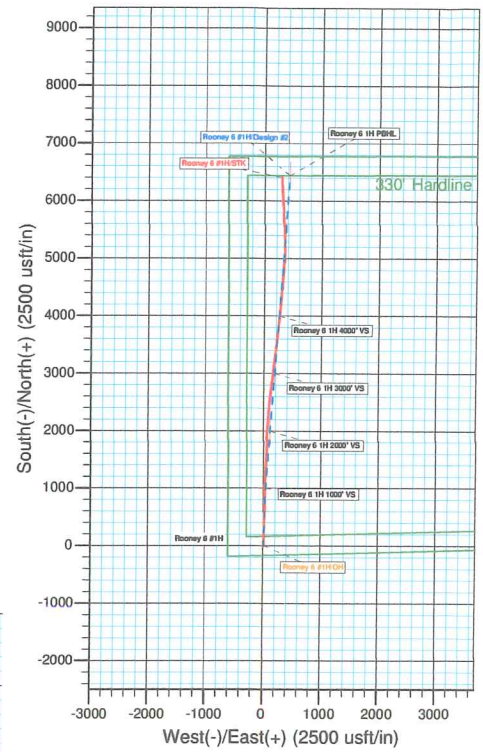
SECTION DETAILS									
MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	Vsect	
4404.00	88.80	0.60	4002.79	722.09	24.44	0.00	0.00	722.02	
4580.04	88.69	4.12	4006.65	897.92	31.69	2.00	91.83	897.83	
4682.53	88.69	4.12	4008.99	1000.11	38.05	0.00	0.00	1000.00	
4756.53	90.17	4.12	4009.73	1073.91	44.36	2.00	0.00	1073.78	
5685.34	90.17	4.12	4006.97	2000.32	111.09	0.00	0.00	2000.00	
5685.21	90.11	4.12	4006.97	2003.19	111.30	2.00	177.73	2002.87	
6868.13	90.11	4.12	4005.00	3000.52	183.18	0.00	0.00	3000.00	
7690.94	90.11	4.12	4003.03	4000.73	255.27	0.00	0.00	4000.00	
7694.09	90.05	4.13	4003.02	4003.88	255.49	2.00	172.96	4003.15	
10140.97	90.05	4.13	4000.89	6444.40	431.72	0.00	0.00	6443.17	

WELL DETAILS: Rooney 6 #1H						
+N-S	+E-W	Northing	Ground Level: Easting	1786.00 Latitude	Longitude	Slot
0.00	0.00	1727161.00	1323095.00	37° 48' 21.297 N	98° 27' 45.900 W	

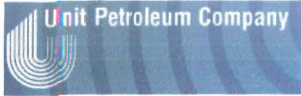
PROJECT DETAILS: Reno County, Kansas [NAD 83]
 Geodetic System: US State Plane 1983
 Datum: North American Datum 1983
 Ellipsoid: GRS 1980
 Zone: Kansas Southern Zone
 System Datum: Mean Sea Level



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



Plan: Design #2 (Rooney 6 #1H/STK)
 Created By: Derek Stephens Date: 5:31, December 20 2014



Company:	Unit Petroleum	Local Co-ordinate Reference:	Well Rooney 6 #1H
Project:	Reno County, Kansas [NAD 83]	TVD Reference:	14' KB @ 1800.00usft (UDI 331)
Site:	Section 6 T26S-R10W	MD Reference:	14' KB @ 1800.00usft (UDI 331)
Well:	Rooney 6 #1H	North Reference:	Grid
Wellbore:	STK	Survey Calculation Method:	Minimum Curvature
Design:	STK	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 6 T26S-R10W				
Site Position:		Northing:	1,727,161.00 usft	Latitude:	37° 48' 21.297 N
From:	Map	Easting:	1,323,095.00 usft	Longitude:	98° 27' 45.900 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16"	Grid Convergence:	0.02 °

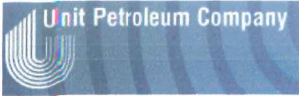
Well	Rooney 6 #1H					
Well Position	+N/-S	0.00 usft	Northing:	1,727,161.00 usft	Latitude:	37° 48' 21.297 N
	+E/-W	0.00 usft	Easting:	1,323,095.00 usft	Longitude:	98° 27' 45.900 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	1,786.00 usft

Wellbore	STK				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	12/4/2014	4.55	65.67	51,933

Design	STK				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	3,139.00
Vertical Section:		Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
		0.00	0.00	0.00	359.84

Survey Program	Date 12/20/2014				
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
100.00	3,139.00	VEG Gyro (OH)	CB-GYRO-MS	Camera based gyro multishot	
3,224.00	10,110.00	STK (STK)	MWD	MWD - Standard	

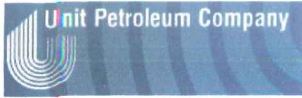
Survey								
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.19	41.57	100.00	0.12	0.11	0.12	0.12	0.19
200.00	0.15	25.16	200.00	0.37	0.28	0.37	0.37	0.06
300.00	0.22	142.94	300.00	0.33	0.45	0.33	0.33	0.32
400.00	0.16	326.68	400.00	0.30	0.49	0.29	0.29	0.38
500.00	0.15	148.22	500.00	0.30	0.48	0.30	0.30	0.31
600.00	0.15	331.12	600.00	0.30	0.48	0.30	0.30	0.30
700.00	0.22	183.84	700.00	0.23	0.41	0.23	0.23	0.36
800.00	0.19	84.07	800.00	0.05	0.56	0.05	0.05	0.31
900.00	0.24	40.87	900.00	0.23	0.86	0.23	0.23	0.16
1,000.00	0.19	61.46	1,000.00	0.47	1.14	0.46	0.46	0.09



Company:	Unit Petroleum	Local Co-ordinate Reference:	Well Rooney 6 #1H
Project:	Reno County, Kansas [NAD 83]	TVD Reference:	14' KB @ 1800.00usft (UDI 331)
Site:	Section 6 T26S-R10W	MD Reference:	14' KB @ 1800.00usft (UDI 331)
Well:	Rooney 6 #1H	North Reference:	Grid
Wellbore:	STK	Survey Calculation Method:	Minimum Curvature
Design:	STK	Database:	EDM ON IWSERVER

Survey

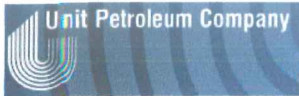
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)
1,100.00	0.22	11.51	1,100.00	0.73	1.33	0.73	0.18
1,200.00	0.25	139.95	1,200.00	0.75	1.51	0.75	0.42
1,300.00	0.22	118.36	1,299.99	0.50	1.82	0.49	0.09
1,400.00	0.36	121.04	1,399.99	0.24	2.25	0.24	0.14
1,445.00	0.24	190.05	1,444.99	0.08	2.36	0.07	0.79
1,500.00	0.00	0.00	1,499.99	-0.04	2.34	-0.04	0.44
1,535.00	0.30	122.70	1,534.99	-0.09	2.42	-0.09	0.86
1,625.00	0.10	164.70	1,624.99	-0.29	2.64	-0.30	0.26
1,715.00	0.20	154.70	1,714.99	-0.51	2.72	-0.51	0.11
1,805.00	1.10	358.70	1,804.99	0.22	2.77	0.21	1.43
1,910.00	0.30	45.70	1,909.98	1.41	2.94	1.41	0.88
2,004.00	0.40	65.70	2,003.98	1.72	3.42	1.71	0.17
2,099.00	0.40	58.70	2,098.97	2.03	4.01	2.02	0.05
2,195.00	0.40	53.70	2,194.97	2.40	4.56	2.39	0.04
2,290.00	0.40	67.70	2,289.97	2.73	5.14	2.71	0.10
2,384.00	0.40	80.70	2,383.97	2.90	5.76	2.89	0.10
2,477.00	0.40	112.70	2,476.97	2.83	6.38	2.81	0.24
2,571.00	0.30	113.70	2,570.96	2.60	6.91	2.58	0.11
2,667.00	0.20	123.70	2,666.96	2.41	7.28	2.39	0.11
2,762.00	0.60	122.70	2,761.96	2.05	7.84	2.03	0.42
2,856.00	0.40	123.70	2,855.96	1.60	8.52	1.58	0.21
2,949.00	0.20	109.70	2,948.96	1.37	8.95	1.34	0.23
3,045.00	0.20	54.70	3,044.96	1.41	9.24	1.38	0.19
3,139.00	0.30	36.70	3,138.95	1.70	9.52	1.67	0.13
3,224.00	1.10	3.90	3,223.95	2.69	9.71	2.66	1.02
3,256.00	2.10	357.30	3,255.93	3.58	9.70	3.56	3.17
3,288.00	4.00	356.00	3,287.89	5.28	9.60	5.26	5.94
3,319.00	5.80	357.50	3,318.77	7.93	9.46	7.90	5.82
3,352.00	7.80	358.90	3,351.54	11.83	9.34	11.81	6.08
3,383.00	9.70	358.10	3,382.18	16.55	9.21	16.52	6.14
3,415.00	11.40	357.80	3,413.64	22.40	9.00	22.38	5.32
3,447.00	12.90	358.30	3,444.92	29.13	8.77	29.11	4.70
3,478.00	14.00	357.80	3,475.07	36.34	8.53	36.31	3.57
3,510.00	15.90	356.90	3,505.98	44.58	8.14	44.56	5.98
3,542.00	18.60	359.80	3,536.54	54.07	7.89	54.04	8.85
3,573.00	21.90	3.70	3,565.62	64.78	8.24	64.76	11.50
3,605.00	25.60	5.00	3,594.91	77.63	9.23	77.60	11.68
3,636.00	29.20	3.30	3,622.43	91.85	10.25	91.83	11.88
3,668.00	32.20	358.70	3,649.94	108.18	10.51	108.15	11.90
3,699.00	35.60	358.40	3,675.67	125.46	10.07	125.43	10.98
3,731.00	39.10	359.60	3,701.10	144.87	9.74	144.84	11.17
3,763.00	42.10	0.80	3,725.40	165.69	9.82	165.66	9.69
3,794.00	45.40	1.50	3,747.79	187.12	10.25	187.09	10.76
3,825.00	48.10	1.70	3,769.03	209.69	10.88	209.65	8.72



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Site:	Section 6 T26S-R10W	MD Reference:	14' KB @ 1800.00usft (UDI 331)
Well:	Rooney 6 #1H	North Reference:	Grid
Wellbore:	STK	Survey Calculation Method:	Minimum Curvature
Design:	STK	Database:	EDM ON IWSERVER

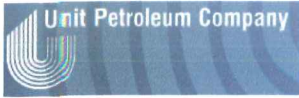
Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)
3,857.00	50.50	2.10	3,789.89	233.93	11.69	233.90	7.56
3,888.00	52.60	1.70	3,809.17	258.19	12.49	258.16	6.85
3,920.00	53.60	1.70	3,828.38	283.77	13.25	283.73	3.12
3,951.00	54.00	1.70	3,846.69	308.78	13.99	308.74	1.29
3,982.00	54.10	1.20	3,864.89	333.86	14.63	333.82	1.34
4,014.00	54.30	1.40	3,883.61	359.81	15.22	359.77	0.80
4,046.00	54.50	1.40	3,902.24	385.82	15.85	385.78	0.62
4,078.00	56.80	0.90	3,920.29	412.24	16.38	412.19	7.30
4,110.00	60.50	0.80	3,936.94	439.56	16.78	439.51	11.57
4,141.00	64.40	1.30	3,951.27	467.03	17.29	466.98	12.66
4,173.00	67.10	2.40	3,964.41	496.19	18.24	496.14	9.00
4,204.00	70.60	2.80	3,975.60	525.07	19.55	525.01	11.35
4,236.00	74.80	2.40	3,985.11	555.58	20.93	555.52	13.18
4,267.00	78.90	2.30	3,992.16	585.73	22.17	585.67	13.23
4,299.00	82.70	2.00	3,997.28	617.30	23.35	617.23	11.91
4,330.00	86.70	0.60	4,000.14	648.15	24.05	648.08	13.66
4,362.00	88.00	0.00	4,001.62	680.11	24.22	680.04	4.47
4,404.00	88.80	0.60	4,002.79	722.09	24.44	722.02	2.38
4,484.00	89.60	0.10	4,003.91	802.08	24.93	802.01	1.18
4,546.00	89.80	359.50	4,004.23	864.08	24.71	864.01	1.02
4,609.00	90.10	359.10	4,004.29	927.08	23.94	927.01	0.79
4,670.00	88.80	0.70	4,004.87	988.07	23.84	988.00	3.38
4,682.21	88.80	0.56	4,005.13	1,000.28	23.97	1,000.21	1.11
Rooney 6 1H 1000' VS							
4,733.00	88.80	0.00	4,006.19	1,051.06	24.22	1,050.98	1.11
4,795.00	88.70	1.90	4,007.55	1,113.03	25.25	1,112.96	3.07
4,857.00	88.70	2.50	4,008.95	1,174.97	27.63	1,174.89	0.97
4,918.00	88.90	3.10	4,010.23	1,235.88	30.61	1,235.79	1.04
4,980.00	88.80	3.10	4,011.47	1,297.78	33.96	1,297.68	0.16
5,042.00	89.40	3.60	4,012.45	1,359.66	37.58	1,359.55	1.26
5,104.00	90.40	3.00	4,012.56	1,421.56	41.15	1,421.44	1.88
5,165.00	90.70	2.60	4,011.97	1,482.48	44.13	1,482.36	0.82
5,226.00	91.00	2.40	4,011.07	1,543.42	46.79	1,543.28	0.59
5,288.00	91.20	2.40	4,009.88	1,605.35	49.39	1,605.21	0.32
5,350.00	89.10	2.20	4,009.71	1,667.30	51.87	1,667.15	3.40
5,411.00	89.80	1.40	4,010.30	1,728.27	53.79	1,728.11	1.74
5,473.00	90.10	1.20	4,010.35	1,790.25	55.20	1,790.09	0.58
5,534.00	90.70	1.40	4,009.93	1,851.23	56.58	1,851.07	1.04
5,596.00	90.30	2.40	4,009.39	1,913.20	58.64	1,913.02	1.74
5,657.00	91.20	1.90	4,008.59	1,974.15	60.92	1,973.97	1.69
5,685.70	91.15	2.87	4,008.00	2,002.81	62.12	2,002.63	3.39
Rooney 6 1H 2000' VS							
5,719.00	91.10	4.00	4,007.34	2,036.05	64.11	2,035.86	3.39
5,780.00	91.10	4.10	4,006.17	2,096.89	68.42	2,096.69	0.16
5,842.00	90.20	4.40	4,005.47	2,158.71	73.02	2,158.50	1.53



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Site:	Section 6 T26S-R10W	MD Reference:	14' KB @ 1800.00usft (UDI 331)
Well:	Rooney 6 #1H	North Reference:	Grid
Wellbore:	STK	Survey Calculation Method:	Minimum Curvature
Design:	STK	Database:	EDM ON IWSERVER

Survey								
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	
5,902.00	90.10	4.30	4,005.31	2,218.54	77.57	2,218.31	0.24	
5,964.00	90.40	4.20	4,005.04	2,280.37	82.16	2,280.13	0.51	
6,026.00	90.90	4.30	4,004.34	2,342.19	86.76	2,341.94	0.82	
6,087.00	89.70	4.80	4,004.02	2,403.00	91.60	2,402.73	2.13	
6,148.00	89.60	4.70	4,004.39	2,463.79	96.65	2,463.51	0.23	
6,210.00	89.40	5.10	4,004.93	2,525.56	101.94	2,525.26	0.72	
6,273.00	89.20	5.40	4,005.70	2,588.29	107.71	2,587.98	0.57	
6,337.00	89.60	6.10	4,006.37	2,651.96	114.12	2,651.63	1.26	
6,400.00	89.80	6.20	4,006.70	2,714.60	120.87	2,714.25	0.35	
6,464.00	89.00	6.80	4,007.37	2,778.18	128.11	2,777.81	1.56	
6,528.00	90.40	6.80	4,007.71	2,841.73	135.69	2,841.34	2.19	
6,591.00	90.30	6.50	4,007.32	2,904.30	142.98	2,903.89	0.50	
6,654.00	90.40	6.60	4,006.94	2,966.89	150.17	2,966.46	0.22	
6,691.10	90.16	6.36	4,006.76	3,003.76	154.36	3,003.32	0.90	
Rooney 6 1H 3000' VS								
6,717.00	90.00	6.20	4,006.72	3,029.50	157.19	3,029.05	0.90	
6,781.00	90.00	5.80	4,006.72	3,093.15	163.88	3,092.68	0.62	
6,844.00	90.40	6.30	4,006.50	3,155.80	170.52	3,155.31	1.02	
6,908.00	91.10	6.50	4,005.66	3,219.39	177.66	3,218.88	1.14	
6,972.00	90.00	6.50	4,005.05	3,282.98	184.90	3,282.45	1.72	
7,035.00	90.80	6.40	4,004.61	3,345.58	191.98	3,345.03	1.28	
7,098.00	91.10	5.80	4,003.56	3,408.21	198.67	3,407.64	1.06	
7,161.00	89.70	6.30	4,003.12	3,470.86	205.31	3,470.27	2.36	
7,225.00	89.70	6.40	4,003.46	3,534.46	212.39	3,533.86	0.16	
7,289.00	89.70	6.40	4,003.79	3,598.06	219.52	3,597.44	0.00	
7,352.00	90.40	6.40	4,003.74	3,660.67	226.55	3,660.02	1.11	
7,415.00	90.60	6.20	4,003.19	3,723.29	233.46	3,722.62	0.45	
7,478.00	89.90	5.90	4,002.91	3,785.94	240.10	3,785.25	1.21	
7,541.00	88.80	5.50	4,003.63	3,848.62	246.36	3,847.92	1.86	
7,604.00	88.70	5.40	4,005.00	3,911.32	252.34	3,910.60	0.22	
7,668.00	88.20	5.60	4,006.73	3,975.00	258.47	3,974.26	0.84	
7,693.23	88.55	5.32	4,007.45	4,000.11	260.87	3,999.37	1.78	
Rooney 6 1H 4000' VS								
7,732.00	89.10	4.90	4,008.24	4,038.71	264.32	4,037.96	1.78	
7,796.00	89.10	4.90	4,009.25	4,102.47	269.79	4,101.70	0.00	
7,858.00	89.60	4.70	4,009.95	4,164.25	274.98	4,163.47	0.87	
7,921.00	90.30	5.10	4,010.00	4,227.02	280.36	4,226.22	1.28	
7,983.00	91.00	5.10	4,009.30	4,288.77	285.87	4,287.95	1.13	
8,045.00	90.50	4.90	4,008.49	4,350.53	291.27	4,349.70	0.87	
8,109.00	88.50	4.00	4,009.05	4,414.33	296.24	4,413.48	3.43	
8,172.00	87.80	4.30	4,011.08	4,477.13	300.80	4,476.27	1.21	
8,234.00	88.30	4.40	4,013.19	4,538.92	305.50	4,538.04	0.82	
8,297.00	89.00	4.60	4,014.68	4,601.70	310.44	4,600.82	1.16	
8,359.00	89.10	4.20	4,015.70	4,663.51	315.19	4,662.61	0.66	



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Well:	Rooney 6 #1H	North Reference:	Grid
Wellbore:	STK	Survey Calculation Method:	Minimum Curvature
Design:	STK	Database:	EDM ON IWSERVER

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)
8,422.00	88.00	4.40	4,017.30	4,726.31	319.91	4,725.40	1.77
8,486.00	88.90	4.60	4,019.03	4,790.09	324.93	4,789.17	1.44
8,550.00	88.80	4.30	4,020.31	4,853.89	329.90	4,852.95	0.49
8,613.00	89.40	3.70	4,021.30	4,916.72	334.29	4,915.77	1.35
8,675.00	90.80	2.60	4,021.19	4,978.63	337.70	4,977.67	2.87
8,740.00	90.60	2.00	4,020.40	5,043.57	340.31	5,042.60	0.97
8,802.00	90.70	2.10	4,019.70	5,105.53	342.53	5,104.55	0.23
8,864.00	89.90	1.30	4,019.37	5,167.50	344.37	5,166.52	1.82
8,927.00	92.20	359.40	4,018.22	5,230.48	344.75	5,229.50	4.73
8,989.00	92.40	358.70	4,015.73	5,292.42	343.72	5,291.44	1.17
9,052.00	92.30	358.10	4,013.15	5,355.34	341.97	5,354.37	0.96
9,114.00	91.70	358.20	4,010.98	5,417.27	339.97	5,416.30	0.98
9,174.00	91.90	358.10	4,009.10	5,477.21	338.03	5,476.25	0.37
9,235.00	91.90	357.80	4,007.08	5,538.14	335.85	5,537.18	0.49
9,297.00	91.30	357.80	4,005.34	5,600.07	333.47	5,599.12	0.97
9,359.00	91.60	357.30	4,003.78	5,661.99	330.82	5,661.05	0.94
9,422.00	91.70	357.40	4,001.96	5,724.90	327.91	5,723.96	0.22
9,486.00	91.50	357.50	4,000.17	5,788.81	325.06	5,787.88	0.35
9,549.00	91.60	357.60	3,998.47	5,851.73	322.37	5,850.81	0.22
9,613.00	91.50	357.10	3,996.74	5,915.64	319.41	5,914.72	0.80
9,677.00	91.50	356.70	3,995.06	5,979.52	315.95	5,978.62	0.62
9,739.00	89.20	356.30	3,994.69	6,041.40	312.17	6,040.50	3.77
9,802.00	89.10	355.80	3,995.62	6,104.24	307.83	6,103.36	0.81
9,865.00	89.00	356.80	3,996.66	6,167.10	303.76	6,166.23	1.60
9,927.00	89.00	357.00	3,997.75	6,229.00	300.41	6,228.14	0.32
9,991.00	89.00	356.80	3,998.86	6,292.90	296.95	6,292.05	0.31
10,065.00	89.50	356.90	3,999.83	6,366.78	292.88	6,365.94	0.69
Last Survey: 10065' MD 3999.20' TVD							
10,110.00	89.50	356.90	4,000.22	6,411.71	290.45	6,410.88	0.00
TD Projected To MD: 10110' MD - Rooney 6 1H PBHL							

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
10,065.00	3,999.83	6,366.78	292.88	Last Survey: 10065' MD 3999.20' TVD
10,110.00	4,000.22	6,411.71	290.45	TD Projected To MD: 10110' MD

Checked By: _____ Approved By: _____ Date: _____