

Confidentiality Requested:

Yes No

Kansas Corporation Commission Oil & Gas Conservation Division

1206877

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 #			API No. 15
Name:			Spot Description:
Address 1:			Sec TwpS. R
Address 2:			Feet from North / South Line of Section
City: Sta	ate: Zi	p:+	Feet from East / West Line of Section
Contact Person:			Footages Calculated from Nearest Outside Section Corner:
Phone: ()			□ NE □ NW □ SE □ SW
CONTRACTOR: License #			GPS Location: Lat:, Long:
Name:			(e.g. xx.xxxxx) (e.gxxx.xxxxx)
Wellsite Geologist:			Datum: NAD27 NAD83 WGS84
Purchaser:			County:
Designate Type of Completion:			Lease Name: Well #:
New Well Re-l	Entry	Workover	Field Name:
			Producing Formation:
☐ Oil ☐ WSW ☐ D&A	☐ SWD	∐ SIOW □ SIGW	Elevation: Ground: Kelly Bushing:
☐ Gas ☐ D&A ☐ OG	GSW	Temp. Abd.	Total Vertical Depth: Plug Back Total Depth:
CM (Coal Bed Methane)	d3vv	remp. Abu.	Amount of Surface Pipe Set and Cemented at: Fee
Cathodic Other (Core,	. Expl., etc.);		Multiple Stage Cementing Collar Used? Yes No
If Workover/Re-entry: Old Well Info			If yes, show depth set: Feet
Operator:			If Alternate II completion, cement circulated from:
Well Name:			feet depth to:w/sx cmt
Original Comp. Date:			·
Deepening Re-perf.	Conv. to E	NHR Conv. to SWD	Drilling Fluid Management Plan
☐ Plug Back	Conv. to G	SW Conv. to Producer	(Data must be collected from the Reserve Pit)
O constituents at	D		Chloride content: ppm Fluid volume: bbls
CommingledDual Completion			Dewatering method used:
SWD			Location of fluid disposal if hauled offsite:
☐ ENHR			Location of hala disposal in fladica offsite.
☐ GSW			Operator Name:
_			Lease Name: License #:
Spud Date or Date Read	ched TD	Completion Date or	QuarterSecTwpS. R East Wes
Recompletion Date		Recompletion Date	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:

Page Two



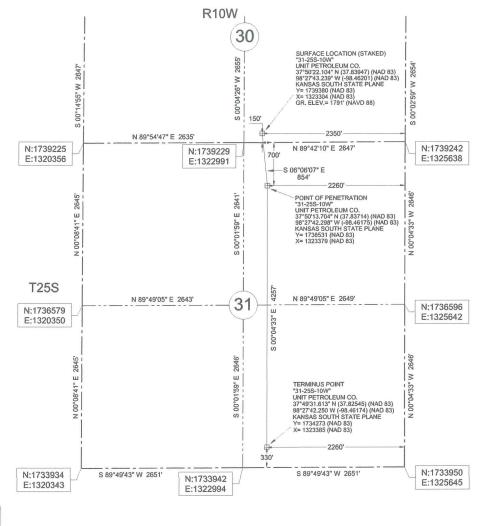
Operator Name:				Lease N	Name: _			Well #:		
Sec Twp	S. R	East	West	County	:					
INSTRUCTIONS: Shopen and closed, flow and flow rates if gas to	ing and shut-in pressu	ires, whe	ther shut-in pre	ssure reac	hed stati	c level, hydrosta	tic pressures, bott			
Final Radioactivity Log files must be submitte						gs must be ema	iled to kcc-well-lo	gs@kcc.ks.go	v. Digital elec	tronic log
Drill Stem Tests Taken (Attach Additional S		Ye	es No		L		on (Top), Depth an		Samp	
Samples Sent to Geol	ogical Survey	_ Ye	es No		Nam	е		Тор	Datur	n
Cores Taken Electric Log Run		Y€								
List All E. Logs Run:										
				RECORD	☐ Ne					
				conductor, su	rface, inte	ermediate, producti			I	
Purpose of String	Size Hole Drilled		e Casing (In O.D.)	Weig Lbs./		Setting Depth	Type of Cement	# Sacks Used	Type and P Additiv	
			ADDITIONAL	CEMENTIN	NG / SQL	JEEZE RECORD				
Purpose:	Depth Top Bottom	Туре	of Cement	# Sacks	Used		Type and P	ercent Additives		
Perforate Protect Casing	35p 2310111									
Plug Back TD Plug Off Zone										
1 ag on zono										
Did you perform a hydrau	ılic fracturing treatment o	n this well?	•			Yes	No (If No, ski	p questions 2 ar	nd 3)	
	otal base fluid of the hydra		J	,	0		_ , ,	p question 3)	(# 100 f)	
Was the hydraulic fractur	ing treatment information	submitted	to the chemical o	disclosure re	gistry?	Yes	No (If No, fill	out Page Three	of the ACO-1)	
Shots Per Foot			D - Bridge Plug Each Interval Perf				cture, Shot, Cement			Depth
	. ,							,		
TUBING RECORD:	Size:	Set At:		Packer At	t:	Liner Run:				
							Yes No			
Date of First, Resumed	Production, SWD or ENH	IR.	Producing Meth Flowing	nod:	g 🗌	Gas Lift C	Other (Explain)			
Estimated Production Per 24 Hours	Oil B	bls.	Gas	Mcf	Wate	er Bl	ols. G	as-Oil Ratio	Gr	ravity
DISDOSITIO	ON OF GAS:			METHOD OF	COMPLE	TION:		PRODUCTIO	ON INTERVAL:	
Vented Sold			Open Hole	Perf.	Dually	Comp. Con	nmingled	THODOUTIC	ZIV IIVI LTIVAL.	
(If vented, Sub			Other (Specify)		(Submit)	ACO-5) (Subi	mit ACO-4)			

Form	ACO1 - Well Completion
Operator	Unit Petroleum Company
Well Name	Weller 31 #1H
Doc ID	1206877

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement		Type and Percent Additives
Surface	28	16	65	160	Common	144	
Intermedia te	12.25	9.625	36	1530	А	580	2% CC + 1/4# celloflake
Intermedia te	8.75	7	26	4306	А	160	5% Gyp + 10% salt
Production	6.125	4.50	11.6	8830	Prem H	500	.2% SASL + 1/4# celloflake
Production	6.125	5.50	17	8830	Prem H	500	.2% SASL + 1/4# celloflake

Section 30 & 31, T 25 S, R 10 W., Reno County, Kansas.





S

 0' 1200' 2400' 3600'

Datum: NAD 83 Units: US Survey Feet North: Grid Coordinates: State Plane Zone: 1502 State: Kansas Region: South section line and 2350 feet from the east section line of Section 30, T 25 S, R 10 W., Reno County, Kansas.

Description: Point of Penetration
"31-25S-10W" situated 700 feet from the

Description: Surface Hole Location Stake "31-25S-10W" situated 150 feet from the south

north section line and 2260 feet from the east section line of Section 31, T 25 S, R 10 W., Reno County, Kansas.

Description: Terminus Point
"31-25S-10W" situated 330 feet from the south section line and 2260 feet from the

"31-25S-10W" situated 330 feet from the south section line and 2260 feet from the east section line of Section 31, T 25 S, R 10 W., Reno County, Kansas.

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



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 DATE OF PLAT 719-13 12-05-2013

T SCALE 1"=1200'

1 OF 5

DRAWN BY

OKLA. CA #2064, EXP. 06/30/2015 KANSAS CA #143, EXP. 12/31/2014

Unit Petroleum

Reno County, Kansas [NAD 83] Section 31 T25S-R10W Weller 31 #1H

OH

Design: OH

Standard Survey Report

12 March, 2014





Unit Petroleum
Project: Reno County, Kansas [NAD 83]
Site: Section 31 7255-R10W
Well: Weller 31 #1H
Wellbore: OH
Design: Design #3
Lat: 37° 50' 22.101 N
Long: 98' 27' 43.233 W
Pad GL: 1791.00
KB: 20' KB @ 1811.00usft (UDI 303)

				SE	CTION DETAI	LS			
MD 4444.00 4487.00 4672.22 5487.65 5655.32 6467.75 6487.10 7487.10 7488.47	90.60 90.60 89.93 89.69 89.69 89.71 89.71 89.78	Azi 178.10 178.10 187.34 187.34 178.96 178.96 179.92 179.92	TVD 4010.33 4009.88 4009.02 4010.00 4010.55 4014.90 4015.00 4020.01	+N/-S -765.03 -808.00 -992.81 -1801.57 -1968.83 -2781.12 -2800.46 -3800.45 -3801.82	+E/-W 183.34 184.76 175.99 71.86 62.66 77.45 77.64 78.96 78.97	Dleg 0.00 0.00 5.00 0.00 5.00 0.00 5.00 0.00 5.00	TFace 0.00 0.00 94.11 0.00 -91.64 0.00 88.80 0.00 -11.40	VSect 767.84 810.83 995.48 1802.48 1969.58 2782.00 2801.34 3801.22 3802.60	
8793.99	89.78	179.91	4025.00	-5107.32	81.01	0.00	0.00	5107.96	

			WELL DETA	JLS: Weller 31 #1H		
+N/-S 0.00	+E/-W 0.00	Northing 1739380.00	Ground Le Easting 1323304.00	vel: 1791.00 Latittude 37° 50' 22.101 N	Longitude 98° 27' 43.233 W	Slot

WELLBORE TARGET DETAILS (LAT/LONG)										
Name	TVD	+N/-S	*E/-W	Northing	Easting	Shape				
5487 ['] MD TGT	4010.00	-1801.57	71.86	1737578.55	1323375.85	Point				
6487 ['] MD TGT	4015.00	-2800.46	77.64	1736579.71	1323381.63	Point				
7487 ['] MD TGT	4020.00	-3800.45	79.01	1735579.79	1323383.01	Point				
Weller 31 1H PBHL (2.24)	4025.00	-5107.32	81.01	1734273.00	1323385.00	Point				

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

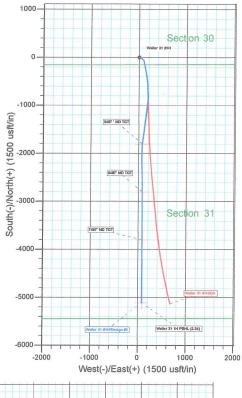
PROJECT DETAILS: Reno County, Kansas [NAD 83]

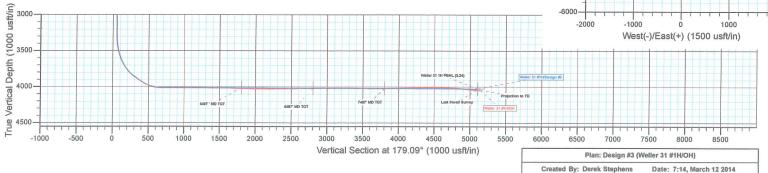
Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: Kansas Southern Zone

System Datum: Mean Sea Level











Company:

Unit Petroleum

Project:

Reno County, Kansas [NAD 83]

Site:

Section 31 T25S-R10W

Well:

Weller 31 #1H

Wellbore: Design:

ОН ОН Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference:

Survey Calculation Method:

Database:

Well Weller 31 #1H

20' KB @ 1811.00usft (UDI 303)

20' KB @ 1811.00usft (UDI 303)

Minimum Curvature

EDM 5000.1 Single User Db

Project

Reno County, Kansas [NAD 83]

Map System: Geo Datum:

US State Plane 1983 North American Datum 1983

Map Zone: Kansas Southern Zone System Datum:

Mean Sea Level

Using geodetic scale factor

Site

Section 31 T25S-R10W

Site Position: From:

Мар

Northing: Easting:

1,739,380.00 usft 1,323,304.00 usft

Latitude:

usft

Longitude:

37° 50' 22.101 N 98° 27' 43.233 W

0.02°

Position Uncertainty:

0.00 usft

Slot Radius:

13-3/16 "

Grid Convergence:

Well

Weller 31 #1H

Well Position

Position Uncertainty

+N/-S +E/-W 0.00 usft 0.00 usft

IGRF2010

0.00 usft

Northing:

Easting: Wellhead Elevation: 1,739,380.00 usft 1,323,304.00 usft

4.66

Latitude: Longitude:

Ground Level:

65.74

37° 50' 22.101 N 98° 27' 43.233 W

1,791.00 usft

0.00

Wellbore

ОН

Magnetics

Model Name

Sample Date

Declination (°)

Dip Angle

Field Strength

(nT)

52,046

Design

ОН

Audit Notes:

Version: 1.0 Phase:

ACTUAL

Tie On Depth:

0.00

Vertical Section:

Depth From (TVD) (usft)

0.00

1/29/2014

+N/-S (usft)

0.00

+E/-W (usft) Direction

(°) 179.09

Survey Program From

(usft)

69 00

3.323.00

Date 3/12/2014

To

(usft) Survey (Wellbore)

3,261.57 Survey #1 (OH)

8,846.00 Survey #2 (OH)

Tool Name CB-GYRO-MS

MWD

Description

Camera based gyro multishot

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
69.31	0.69	98.70	69.31	-0.06	0.41	0.07	1.00	1.00	0.00
257.09	1.75	64.22	257.05	1.01	4.11	-0.95	0.66	0.56	-18.36
444.87	2.23	87.90	444.71	2.39	10.35	-2.23	0.50	0.26	12.61
632.65	2.81	100.23	632.31	1.71	18.53	-1.42	0.42	0.31	6.57
820.43	3.74	110.57	819.79	-1.26	28.79	1.72	0.58	0.50	5.51
1,008.21	3.72	115.45	1,007.17	-6.03	40.02	6.66	0.17	-0.01	2.60
1,195.99	3.02	147.82	1,194.64	-12.83	48.16	13.60	1.06	-0.37	17.24
1,383.77	2.44	176.32	1,382.21	-21.01	51.05	21.82	0.78	-0.31	15.18
1,571.55	2.18	147.04	1,569.85	-28.00	53.25	28.84	0.64	-0.14	-15.59



Company:

Unit Petroleum

Project: Reno County, Kansas [NAD 83]

Site: Well:

Section 31 T25S-R10W Weller 31 #1H

Wellbore: Design:

ОН ОН

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Database:

Well Weller 31 #1H

20' KB @ 1811.00usft (UDI 303) 20' KB @ 1811.00usft (UDI 303)

Grid

Minimum Curvature

EDM 5000.1 Single User Db

y									
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)
1,759.33	2.48	137.52	1,757.47	-33.99	57.94	34.90	0.26	0.16	-5.07
1,947.11	2.50	119.36	1,945.08	-38.99	64.25	40.01	0.42	0.01	-9.67
2,134.89	2.26	121.15	2,132.70	-42.92	70.99	44.04	0.13	-0.13	0.95
2,322.67	1.82	121.57	2,320.36	-46.39	76.70	47.60	0.23	-0.23	0.22
2,510.45	1.31	114.05	2,508.07	-48.83	81.20	50.11	0.29	-0.27	-4.00
2,698.23	0.87	109.89	2,695.81	-50.19	84.50	51.52	0.24	-0.23	-2.22
2,886.01	0.45	127.35	2,883.58	-51.12	86.43	52.48	0.25	-0.22	9.30
3,073.79	0.55	124.39	3,071.35	-52.08	87.76	53.46	0.05	0.05	-1.58
3,261.57	0.53	124.47	3,259.12	-53.08	89.22	54.49	0.01	-0.01	0.04
3,323.00	1.30	153.50	3,320.55	-53.86	89.76	55.28	1.42	1.25	47.26
3,354.00	3.50	160.80	3,351.52	-55.07	90.23	56.49	7.15	7.10	23.55
3,386.00	5.60	163.60	3,383.41	-57.49	90.23	58.93	6.60	6.56	8.75
3,417.00	7.30	164.70	3,414.22	-60.84	91.94	62.29	5.50	5.48	3.55
3,449.00	9.80	167.90	3,445.86	-65.47	93.05	66.93	7.95	7.81	10.00
3,480.00	11.90	168.60	3,476.30	-71.18	94.23	72.67	6.79	6.77	2.26
3,511.00	13.70	168.60	3,506.53	-77.91	95.59	79.42	5.81	5.81	0.00
3,542.00	16.00	168.60	3,536.49	-85.70	97.16	87.23	7.42	7.42	0.00
3,574.00	18.50	168.80	3,567.05	-95.00	99.02	96.56	7.81	7.81	0.63
3,602.00	21.10	168.70	3,593.40	-104.31	100.87	105.89	9.29	9.29	-0.36
3,635.00	23.70	168.50	3,623.90	-116.63	103.35	118.26	7.88	7.88	-0.61
2 000 00	20.00	467.00	2.054.00	400 F2	106.05	131.19	9.39	9.35	-1.94
3,666.00	26.60	167.90	3,651.96	-129.53			8.76	8.75	-0.94
3,698.00	29.40	167.60	3,680.21	-144.21	109.24	145.92			
3,730.00	32.10	168.50	3,707.71	-160.21	112.62	161.98	8.56	8.44	2.81
3,761.00	35.10	168.30	3,733.53	-177.01	116.07	178.83	9.68	9.68	-0.65
3,792.00	38.50	167.90	3,758.35	-195.18	119.90	197.06	10.99	10.97	-1.29
3,823.00	42.20	168.50	3,781.97	-214.83	124.00	216.76	12.00	11.94	1.94
3,855.00	45.70	169.00	3,805.00	-236.60	128.33	238.61	10.99	10.94	1.56
3,886.00	49.50	169.40	3,825.90	-259.09	132.62	261.16	12.29	12.26	1.29
3,918.00	53.30	169.90	3,845.86	-283.69	137.11	285.82	11.94	11.88	1.56
3,949.00	54.60	170.10	3,864.11	-308.37	141.46	310.57	4.23	4.19	0.65
3,980.00	55.40	170.10	3,881.89	-333.38	145.83	335.65	2.58	2.58	0.00
4.012.00	55.60	170.10	3,900.01	-359.36	150.36	361.70	0.63	0.63	0.00
4,043.00	56.20	170.10	3,900.01	-384.65	154.77	387.06	1.94	1.94	0.00
4,043.00	58.30	170.10	3,934.16	-410.36	159.07	412.83	7.11	6.77	2.58
4,106.00	61.80	170.90	3,950.14	-437.78	163.17	440.31	11.41	10.94	3.75
2									
4,137.00	65.40	173.00	3,963.92	-465.31	166.76	467.90	11.90	11.61	2.90
4,168.00	68.80	174.00	3,975.98	-493.68	169.99	496.31	11.36	10.97	3.23
4,200.00	72.40	174.90	3,986.61	-523.71	172.91	526.39	11.56	11.25	2.81
4,231.00	76.00	175.80	3,995.05	-553.44	175.32	556.15	11.94	11.61	2.90
4,259.00	79.30	176.50	4,001.03	-580.73	177.16	583.46	12.04	11.79	2.50
4,348.00	88.80	178.80	4,010.25	-669.07	180.77	671.85	10.98	10.67	2.58
4,380.00	89.90	178.60	4,010.61	-701.06	181.50	703.85	3.49	3.44	-0.63
4,444.00	90.60	178.10	4,010.33	-765.03	183.34	767.84	1.34	1.09	-0.78



Company:

Unit Petroleum

Project:

Reno County, Kansas [NAD 83]

Site:

Section 31 T25S-R10W

Well:

Weller 31 #1H

Wellbore: Design:

ОН ОН Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference:

Survey Calculation Method:

Database:

Well Weller 31 #1H

20' KB @ 1811.00usft (UDI 303)

20' KB @ 1811.00usft (UDI 303)

Grid

Minimum Curvature

EDM 5000.1 Single User Db

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)
4,540.00	91.10	177.80	4,008.91	-860.96	186.77	863.81	0.61	0.52	-0.31
4,635.00	89.60	178.20	4,008.33	-955.89	190.09	958.79	1.63	-1.58	0.42
4,731.00	89.90	177.70	4,008.75	-1,051.83	193.52	1,054.77	0.61	0.31	-0.52
4,827.00	89.40	178.30	4,009.33	-1,147.77	196.87	1,150.75	0.81	-0.52	0.63
4,922.00	89.70	178.30	4,010.08	-1,242.72	199.69	1,245.73	0.32	0.32	0.00
5,018.00	88.90	178.10	4,011.25	-1,338.67	202.70	1,341.71	0.86	-0.83	-0.21
5,114.00	89.80	178.00	4,012.34	-1,434.61	205.97	1,437.69	0.94	0.94	-0.10
5,210.00	91.20	178.00	4,011.50	-1,530.54	209.32	1,533.67	1.46	1.46	0.00
5,302.00	87.70	177.70	4,012.39	-1,622.46	212.77	1,625.63	3.82	-3.80	-0.33
5,394.00	87.50	177.30	4,016.24	-1,714.29	216.78	1,717.51	0.49	-0.22	-0.43
5,473.59	88.61	176.96	4,018.94	-1,793.74	220.77	1,797.01	1.46	1.40	-0.43
5487 ' MD TO	ЭТ								
5,487.00	88.80	176.90	4,019.24	-1,807.12	221.48	1,810.40	1.46	1.40	-0.43
5,579.00	87.90	175.40	4,021.89	-1,898.87	227.66	1,902.24	1.90	-0.98	-1.63
5,672.00	88.90	175.90	4,024.49	-1,991.56	234.71	1,995.04	1.20	1.08	0.54
5,763.00	90.10	175.70	4,025.28	-2,082.32	241.37	2,085.88	1.34	1.32	-0.22
5,855.00	91.20	175.30	4,024.24	-2,174.02	248.59	2,177.69	1.27	1.20	-0.43
5,947.00	90.90	174.80	4,022.55	-2,265.67	256.53	2,269.45	0.63	-0.33	-0.54
6,040.00	90.20	174.90	4,021.66	-2,358.29	264.88	2,362.19	0.76	-0.75	0.11
6,134.00	90.80	174.30	4,020.84	-2,451.86	273.72	2,455.90	0.90	0.64	-0.64
6,224.00	91.40	174.40	4,019.11	-2,541.41	282.58	2,545.57	0.68	0.67	0.11
6,316.00	90.60	174.50	4,017.51	-2,632.96	291.48	2,637.25	0.88	-0.87	0.11
6,407.00	90.70	174.50	4,016.47	-2,723.54	300.20	2,727.96	0.11	0.11	0.00
6,461.06	90.82	174.15	4,015.76	-2,777.33	305.54	2,781.82	0.68	0.22	-0.65
6487' MD TG	Т								
6,500.00	90.90	173.90	4,015.18	-2,816.05	309.60	2,820.61	0.68	0.22	-0.65
6,591.00	90.90	173.70	4,013.75	-2,906.51	319.42	2,911.21	0.22	0.00	-0.22
6,683.00	89.80	174.10	4,013.18	-2,997.99	329.20	3,002.83	1.27	-1.20	0.43
6,776.00	90.00	174.00	4,013.35	-3,090.48	338.84	3,095.47	0.24	0.22	-0.11
6,869.00	88.90	174.30	4,014.24	-3,182.99	348.32	3,188.12	1.23	-1.18	0.32
6,962.00	89.20	174.60	4,015.78	-3,275.55	357.31	3,280.80	0.46	0.32	0.32
7,054.00	89.40	175.00	4,016.91	-3,367.16	365.65	3,372.53	0.49	0.22	0.43
7,146.00	90.40	174.50	4,017.07	-3,458.77	374.07	3,464.27	1.22	1.09	-0.54
7,237.00	88.90	174.10	4,017.62	-3,549.32	383.10	3,554.95	1.71	-1.65	-0.44
7,332.00	89.40	173.10	4,019.03	-3,643.71	393.69	3,649.50	1.18	0.53	-1.05
7,429.00	90.20	172.50	4,019.37	-3,739.95	405.85	3,745.91	1.03	0.82	-0.62
7,444.29	90.28	172.39	4,019.31	-3,755.10	407.86	3,761.10	0.90	0.52	-0.73
7487' MD TG			artini disempi di	ander confide bys		00 Marc 00035 (202097)			
7,525.00	90.70	171.80	4,018.62	-3,835.04	418.96	3,841.21	0.90	0.52	-0.73
7,621.00	91.30	171.50	4,016.94	-3,930.01	432.90	3,936.38	0.70	0.63	-0.31
7,716.00	90.90	170.70	4,015.12	-4,023.85	447.59	4,030.44	0.94	-0.42	-0.84
7,812.00	91.40	170.80	4,013.19	-4,118.58	463.02	4,125.41	0.53	0.52	0.10
7,907.00	92.00	170.00	4,010.37	-4,212.21	478.86	4,219.27	1.05	0.63	-0.84
8,003.00	90.30	170.20	4,008.44	-4,306.76	495.36	4,314.07	1.78	-1.77	0.21



Company:

Unit Petroleum

Project Reno County, Kansas [NAD 83]

Site: Well: Section 31 T25S-R10W

Weller 31 #1H

Wellbore: OH
Design: OH

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Database:

Well Weller 31 #1H

20' KB @ 1811.00usft (UDI 303) 20' KB @ 1811.00usft (UDI 303)

Grid

Minimum Curvature

EDM 5000.1 Single User Db

vey										
	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)
	8,099.00	89.90	169.50	4,008.28	-4,401.25	512.28	4,408.82	0.84	-0.42	-0.73
	8,194.00	89.30	168.80	4,008.94	-4,494.55	530.16	4,502.39	0.97	-0.63	-0.74
	8,289.00	89.60	168.40	4,009.85	-4,587.67	548.93	4,595.80	0.53	0.32	-0.42
	8,384.00	88.90	168.00	4,011.10	-4,680.66	568.36	4,689.08	0.85	-0.74	-0.42
	8,479.00	86.40	167.70	4,014.99	-4,773.44	588.34	4,782.17	2.65	-2.63	-0.32
	8,575.00	86.00	167.70	4,021.35	-4,867.03	608.74	4,876.07	0.42	-0.42	0.00
	8,671.00	84.40	166.40	4,029.39	-4,960.26	630.18	4,969.63	2.14	-1.67	-1.35
	8,673.47	84.41	166.34	4,029.63	-4,962.64	630.76	4,972.02	2.34	0.42	-2.32
	Weller 31 1H	PBHL (2.24)								
	8,766.00	84.80	164.20	4,038.33	-5,051.73	654.18	5,061.47	2.34	0.42	-2.32
	8,801.00	85.10	164.50	4,041.41	-5,085.31	663.58	5,095.19	1.21	0.86	0.86
	Last Inwell S	urvey								
	8,846.00	85.10	164.50	4,045.25	-5,128.51	675.56	5,138.58	0.00	0.00	0.00
	Projection to	TD								

esig n Anno	tations				
	Measured	Vertical	Local Coo	rdinates	
	Depth (usft)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment
	8,801.00	4,041.41	-5,085.31	663.58	Last Inwell Survey
	8,846.00	4,045.25	-5,128.51	675.56	Projection to TD

Checked By:	Approved By	Da	te:

ALLIED OIL & GAS SERVICES, LLC 052856

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999 SOUTHLAKE, TEXAS 76092

SERV	ICE POINT:	Band it
ATION 2 A.M	JOB START	JOB FINISH
ZE.	COUNTY	STATE

DATE 3-9-14 SEC. TWP. RANGE	CALLED OUT ON LOCATION OF AM 10.00 F	TRATE BOL NO	JOB FINISH
			JOB FINISH STATE
OLD OR NEW (Circle one)	JUL 75, 1E, 15, 12	E Have	122
Chicle one)			
CONTRACTOR DN & 303	OWNER Same		
TYPE OF JOB)	OWNER Same		
HOLE SIZE T.D. RRYLE	CEMENT		
CASING SIZE 1/2 & 5/2 DEPTH & CO.	AMOUNT ORDERED	0- 0.=	il a se
TUBING SIZE DEPTH	0.32.5451 10FO	1 Division 5	- the Office
DRILL PIPE DEPTH		1 111 11 11 12 2	
TOOL DEPTH			
PRES. MAX 2000 MINIMUM 1000 F	COMMON CALL H 5	21 Jr	יייי או
MEAS. LINE SHOE JOINT 75. Let	POZMIX	@ 21.4.	112,1231
CEMENT LEFT IN CSG. 78 Lec.	GEL	@	
MIST ACEMENT A FILE	CHLORIDE		
DISPLACEMENT 165' (HO has 5000 HO - 125)	HOASC		
EQUIPMENT	FL-160 288	07.819	5443 ×
	SASI 96	<u> </u>	
PUMP TRUCK CEMENTER 1	Sugar St	@ 2,00	
S97 HELPER Karing GAAL	Dillon local	<u> </u>	
BULK TRUCK		@	
870-844 DRIVER Dan Carrier		@	-
BULK TRUCK		@	
DRIVER Charley Kenyan		@	
Y	HANDLING STORY	<u> </u>	
REMARKS:	MILEAGE 1208,09	2.60	- 3141,03
Len 478° of 45 an 4045° of 55° cm. Set of 1830. Hools to beg a Broke conditation.	SER	VICE	
5 H2 Ho Mined SOO 22 (South 0 10 50 - 160, 0. 250 SAS, Francia 2 12 18 18 18 18 18 18 18 18 18 18 18 18 18			8530
iched up Relicus Fing - Wintered () The	THE STREET		5898.75
30. Landed Keng at 3000 Pelleaned	27111111001700	@	
-> Klost Haby to store Personal	MILEAGE So	<u> </u>	38500
Thomas	MANIFOLD	@	
	LVW 50	@ <u>-4,40</u> _	_330.00
HARGE TO: Das it Patroleum		@	
TREET		TOTAL	k\$03.75
		TOTAL	- Maked: 1.3
ITYSTATEZIP			
	PLUG & FLO	AT EQUIPMEN	T
	9	@	
o: Allied Oil & Gas Services, LLC.		@	
ou are hereby requested to rent cementing equipment			
nd furnish cementer and helper(s) to assist owner or			-
ontractor to do work as is listed. The above work was		-	
one to satisfaction and supervision of owner agent or		TOTAL	
ontractor. I have read and understand the "GENERAL		IOIAL	
ERMS AND CONDITIONS" listed on the reverse side.	SALES TAX (If Any)		
instead on the reverse side.			····
NAT WAR	TOTAL CHARGES 30	171 75	
UNTED NAME X COLON MONEY	DISCOUNT 12,065.	78 IF PAI	D IN 30 DAYS
SMETHER VINE VINE NA 1/	\$ 18.103 1		
	NAT 1/3, 16 3 3 1	,	

ALLIED OIL & GAS SERVICES, LLC 062650

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999 SOUTHLAKE, TEXAS 76092

SERVICE POINT:

DATE 2-23-14	SEC.	TWP.	RANGE	CA 3	LLED O	UT k.M	ON LOCATION 7/00 AM		JOB FINISH
LEASE LEASE	WELL# -	31-1 H	LOCATIONZ =					COUNTY	STATE
OLD OF NEW Ci	rcle one)			<u> </u>	,		13; 3 <u>5</u> ,	There are	<u> </u>
CONTRACTOR \	10:5±	マムス		***************************************	OWNI	-5 <	ione		
TYPE OF JOB	す。	-70-7		·	OWN	SK ~	Come		
HOLE SIZE 8-1			4306		CEMI	FNT			
CASING SIZE 7			TH 4306				RDERED 160	.o co	L
TUBING SIZE			TH		Z Z	- 1 KB -	تمخ <u>۲۰۵۰ ۲۰۵۰ م</u>	The Little	π
DRILL PIPE		DEP				71-	24, 10/20	X_I	
TOOL		DEP							
PRES. MAX No	<u></u>		IMUM SAG		COMA	MON Y	60	@ 17 5-	7011100
MEAS. LINE			E JOINT &		PO7M	XIX		@_1Z	× 307,00
CEMENT LEFT IN	CSG. 2		1010111101		GEL			@ @	
PERFS.					_	RIDE			
DISPLACEMENT	11.4	. 0	· · · · · · · · · · · · · · · · · · ·						_
	100	IPMENT			53-100	- 0)(_		[20]. Lo
	EQU	HE INTIDIA H			276	<u> </u>	- 70 - 3ネ		- 243 30 - 1801-180
·					-45	<u> </u>	<u> </u>		
PUMP TRUCK	CEMENTI	ER	Deilien						-
<u># 597 </u>	HELPER	1700	in 63dy				···········		
BULK TRUCK			•				· · · · · · · · · · · · · · · · · · ·		
# 1.03	DRIVER	Bru	rong					e	-
BULK TRUCK			1		***************************************			@	
# 1	DRIVER				HAND	LING	189.84		470,30
					MILE	AGE	414.39		1077, 42
	REN	AARKS:							5857.02
Rom 4300 1			٠	,				IOIA	- <u>VIII. (&</u>
Promise Tex	7 - 2	<u> </u>	<u> </u>	ححد			222		
H30 Wixer	<u> </u>	20 11 10	id di Signer	777			SERV	ICE.	
				المعطم	D. D. D. D.		/ i		
100000 1000 C	ediane.	- Filther 1	Dinglaced # 021±		DEPTI	H OF JO	DB <u>4306</u>		
Relieved Con	2	This is	V V V3				K CHARGE		2745.75
Janes	Sofred	450 P	to the to	4			TAGE	@	
Disk Hone	20000	~ 30c	D D						385,00
			- 1 1 2 2 2 X	<u> </u>	MANI	FOLD.			
	,						<u> </u>		
	- G N				LVA	^	Sa	<u> </u>	330.00
CHARGE TO: DA	777	र्गाला र	U M						
STREET								TOTAI	<u> </u>
SINCLI									
CITY		ATE	ZIP				DI IIO O DI O		100
n- re#11	10000	20					PLUG & FLOA	II EQUIPME	N1
AFE#14	000								
					حنڪ	Beare	fr-ot 52 m	L@712.5	1 712.53
					2	<u> </u>	المتعاد	<u>83.c7</u>	166,14
To: Allied Oil & O	Gas Servio	ces. LLC.			Dull.	hin f	Ruse	@ 994	39.45
You are hereby re-			entino equipme	nt	,		4	@	
and furnish cemer	-		~		***************************************			@	
contractor to do w									
								ΤΩΤΔΙ	978.12
done to satisfactio								10171	
contractor. I have					SAIF	TAY	(If Any)		•
TERMS AND CO	וסדדוטמיי	NS" listed	on the reverse s	ide.					
					TOTA	L CHAI	RGES 10,4	80.89	
PRINTED NAME_	V M	XIONE	ク				4192.35		ID IN 30 DAYS
A MAINT DES INVINIE	7	1500,	<i></i>		הזפכר			IF PA	אלו הני אוז היי DAYS
\ 1		<i>_</i>				Ö	6283.54		
signature 👤	1 my	100					•		

ALLIED OIL & GAS SERVICES, LLC 062649 Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999

SOUTHLAKE, 7	TEXAS 760	92		SEK	VICE POINT:	iend K
SEC.	TWP.	TE (VICE)	-	,	ا المنتهدار	Jane 16
DATE 2-18-14		RANGE	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
CLEASE Well#	<u> 31-17</u>	LOCATION Zan	Sound Train	th IF-T	COUNTY	STATE
OLD OR NEW (Circle one)		1 South	i Kc.T		- Rense	1 Kz
CONTRACTOR 15 - V	** ~				_	
CONTRACTOR UNIT	#303		OWNER 5	ame		
HOLE SIZE 12/419		1530	-	_		
CASING SIZE 9 519		1330 TH 1530	CEMENT		. 1	
TUBING SIZE	DEP			DERED 300 N	- 770 c	23-57- Breed
DRILL PIPE	DEP		- 220.0 co	27ccc, k, # f === t, 25cc	Tranif sh	- 11
TOOL	DEP		- STORE CE		127+X-12	ed fritz
PRES. MAX 700*	MIN	IMUM 400 #	COMMON &	280	@1780	Ca12
MEAS. LINE	SHO	E JOINT 3'	POZMIX		_@	237.60
CEMENT LEFT IN CSG. 2 PERFS.	<u> </u>	100	GEL		- @	
	_		CHLORIDE_		@64.00	960,00
			ASC		_@	
EQU	IPMENT		AMD			7770,00
					<u>-62.57</u>	430,69
	ER	Duken	: Sayon i		@ <u>2.66</u>	_424.00
#577 HELPER	<u>CHarl</u>	in Kingan			@	-
BULK TRUCK # 597 DRIVER		\				
# 59 DRIVER BULK TRUCK	1700	saper_			- @	
	. 0 .	5 cother			_@ @	
BRIVER	Mixe	Jack Kon	HANDLING_	633.42		JS70,37
			MILEAGE	1432,09	2.60	3692.42
REM	IARKS:					19864.9
Ren 1550 of 95/8"C)	r. Br	le civiletini	_		IOIAL	11001.1
Themes Shirt Har.	W & A & W	A Roman C. Allin	^	SERVIO	`E	
270 August 250 NAG	15 29~ c	で レギエューシー	æ	DERVIE		
talken in Bu Jac	esta CR	we to a to come	DEPTH OF JOI	B (535)		
You Flourily of Rela	24 5 2 15 15 15 15 15 15 15 15 15 15 15 15 15	in Mindre 1	PUMP TRUCK	CHARGE		22,13.75
Reliand & floor 1	101 1 c	1.760°.	EXTRA FOOT		@	
Cameral Col	- <u>- 246 F</u>	A. 90);(MILEAGE		@ 7,70	385.00
	interior (Apro 80 ppl	MANIFOLD_		@	
		To pot	1 Hars Kint	-	@ <u>275.cc</u>	<u> 275.co</u>
CHARGE TO: DNA D	7.0		1 VM	<u>5c</u>	.⊚ त 'तरु	330,00
•	-2346X0:	7-22				
STREET					TOTAL	3093,75
CITYSTA	TE.	71P				
		2724	P	LUG & FLOAT	EQUIPMEN	T
		5 4 5	Rubbin Plu	₹¢_	@ 134.86	184.86
		Richa	Samered FR		@1213.29	12/3.29
To: Allied Oil & Gas Service	es, LLC.	_5	5- Cantialy		@ 87,25	
You are hereby requested to	rent cemei	ting equipment	J- Threed !		@ <u>83.07</u>	ilele 14
and furnish cementer and he	lper(s) to a	ssist owner or	L Booket		@ <i>554.3</i> @	<u> </u>
contractor to do work as is li	sted. The	above work was				
done to satisfaction and supe	rvision of	owner agent or	•		TOTAL	2597,40
contractor. I have read and t	inderstand	the "GENERAL				,
TERMS AND CONDITION	S" listed o	n the reverse side.	SALES TAX (If	Any)		
4			TOTAL CHARC	GES \$ 25,5	5. GG	
PRINTED NAME X 124 L	6,P2		Ť.	O ban on		
THE HAME IT I THE	<u> </u>		DISCOUNT 1	9720.29	IF PAID	IN 30 DAYS
PRINTED NAME X 124 L SIGNATURE X	rez		B	15,839,	<u>ځ</u> ې	



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

CEMENTING REPORT

Operator: Unit Corporation

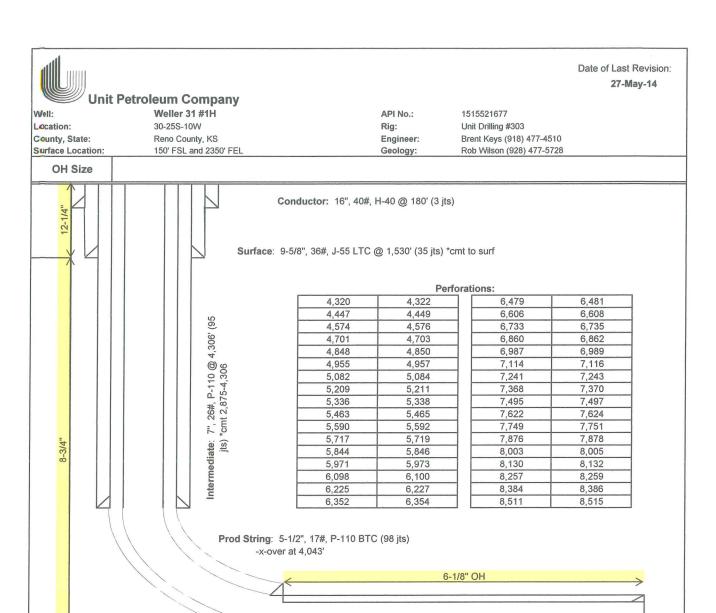
Well Name: Weller 31-1H

Legal Description: Reno Cnty, KS

Cementing Date	1/20/14
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

Jeff M. Owen

Mid-Continent Conductor, LLC



Prod String: 4-1/2", 11.6#, P-110 LTC @ 8,830' (126 jts) *cmt 3,000-8,830