



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: \_\_\_\_\_

1234547

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: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	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

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <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> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	Unit Petroleum Company
Well Name	Dye Trust 30 #1H
Doc ID	1234547

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	165	Common	144	
Intermediate	12.25	9.625	36	1529	A	605	2% CC + 1/4# celloflake
Intermediate	8.75	7	26	4330	A	160	2% CC + 1/4# celloflake
Liner	6.125	4.50	11.6	8440	Prem H	500	2% CC + 1/4# celloflake

## Summary of Changes

Lease Name and Number: Dye Trust 30 #1H

API/Permit #: 15-155-21671-01-00

Doc ID: 1234547

Correction Number: 1

Approved By: NAOMI JAMES

Field Name	Previous Value	New Value
Approved Date	02/13/2014	12/09/2014
LocationInfoLink	<a href="https://solar.kgs.ku.edu/kcc/detail/locationInformation.cfm?section=30&amp;t.../kcc/detail/operatorEditDetail.cfm?docID=1188393">https://solar.kgs.ku.edu/kcc/detail/locationInformation.cfm?section=30&amp;t.../kcc/detail/operatorEditDetail.cfm?docID=1188393</a>	<a href="https://kolar.kgs.ku.edu/kcc/detail/locationInformation.cfm?section=30&amp;t.../kcc/detail/operatorEditDetail.cfm?docID=1234547">https://kolar.kgs.ku.edu/kcc/detail/locationInformation.cfm?section=30&amp;t.../kcc/detail/operatorEditDetail.cfm?docID=1234547</a>
Save Link		
Well Type	GAS	OIL



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1188393  
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
--	---

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	Dye Trust 30 #1H
Doc ID	1188393

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
6	4440 - 8393	Fracture	

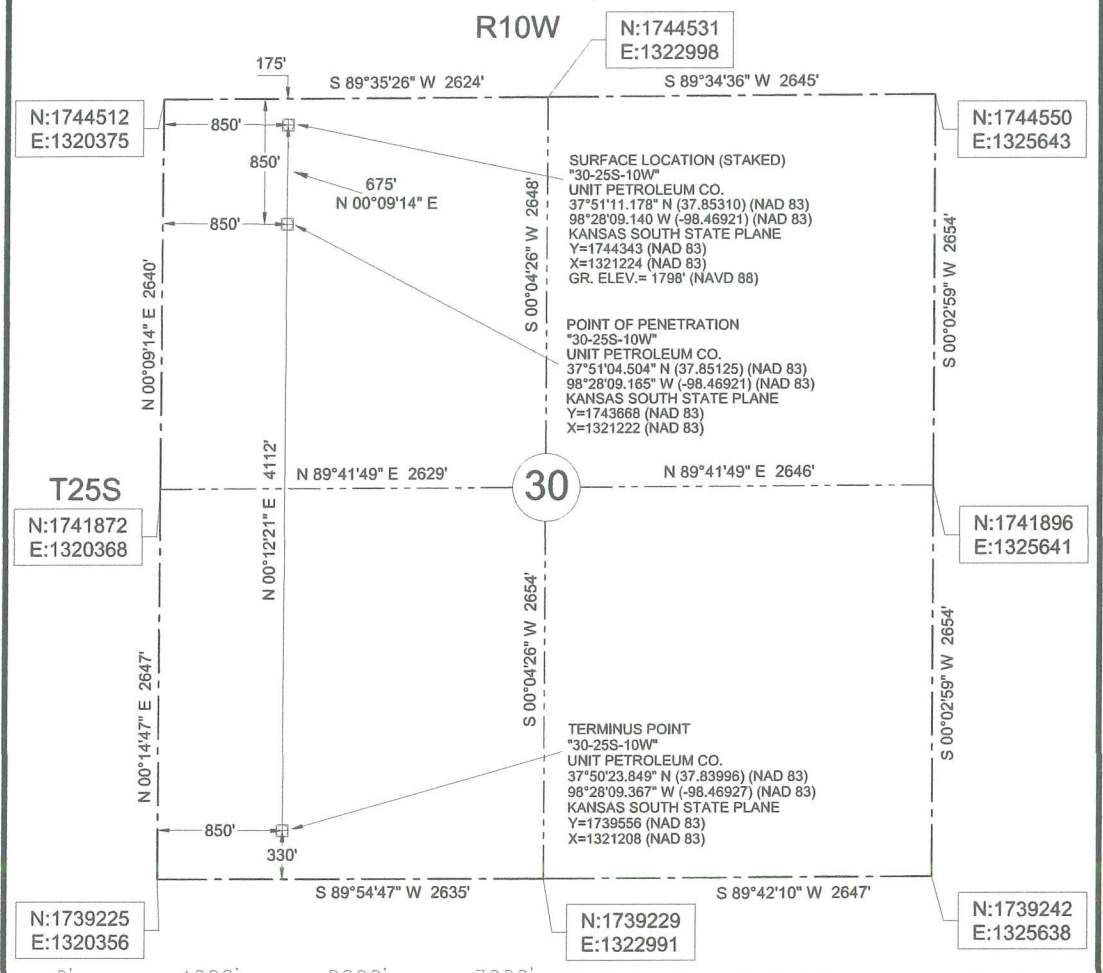
Form	ACO1 - Well Completion
Operator	Unit Petroleum Company
Well Name	Dye Trust 30 #1H
Doc ID	1188393

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	165	Common	144	
Intermediate	12.25	9.625	36	1529	A	605	2% CC + 1/4# celloflake
Intermediate	8.75	7	26	4330	A	160	2% CC + 1/4# celloflake
Liner	6.125	4.50	11.6	8440	Prem H	500	2% CC + 1/4# celloflake



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



We do hereby certify that this survey was done in accordance to records, maps and other information as provided to us by the client herein named and that great care was taken in the actual staking of this well and the determination of any obstacles thereupon. However, the accuracy of this survey is not guaranteed and if there appears to be any discrepancy, please notify us immediately.

**48 HOURS BEFORE YOU DIG...**  
CALL KANSAS ONE-CALL  
1-800-344-7233

**KANSAS ONE-CALL SYSTEM**

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

Contractor is responsible for contacting all utility companies prior to construction.

**Description:** Surface Hole Location Stake "30-25S-10W" situated 175 feet from the north section line and 850 feet from the west section line of Section 30, T 25 S, R 10 W., Reno County, Kansas.

**Description:** Point of Penetration "30-25S-10W" situated 850 feet from the south section line and 850 feet from the west section line of Section 30, T 25 S, R 10 W., Reno County, Kansas.

**Description:** Terminus Point "30-25S-10W" situated 330 feet from the south section line and 850 feet from the west section line of Section 30, T 25 S, R 10 W., Reno County, Kansas.

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

**LEGEND**  
- - - - - SECTION LINE  
- - - - - 1/4 SECTION LINE

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

	<b>JVIDENS LAND SURVEY CO., INC.</b>	Survey For:	JOB	DATE OF PLAT	SCALE	SHEET
	1210 19TH STREET / P.O. BOX 943 WOODWARD, OKLAHOMA 73802 Phone 580-256-7174 - Fax 580-256-3424 roger@jvidenslandsurvey.com mike@jvidenslandsurvey.com	Unit Petroleum Co. P.O. Box 2726 Woodward, Oklahoma 73802 Attn: Jason Rummery	456-13	08-19-2013	1"=1000'	1 OF 5
		DRAWN BY C.A.N.	OKLA. CA #2064, EXP. 06/30/2015 KANSAS CA #143, EXP. 12/31/2014			

DyeTrust 30 1H



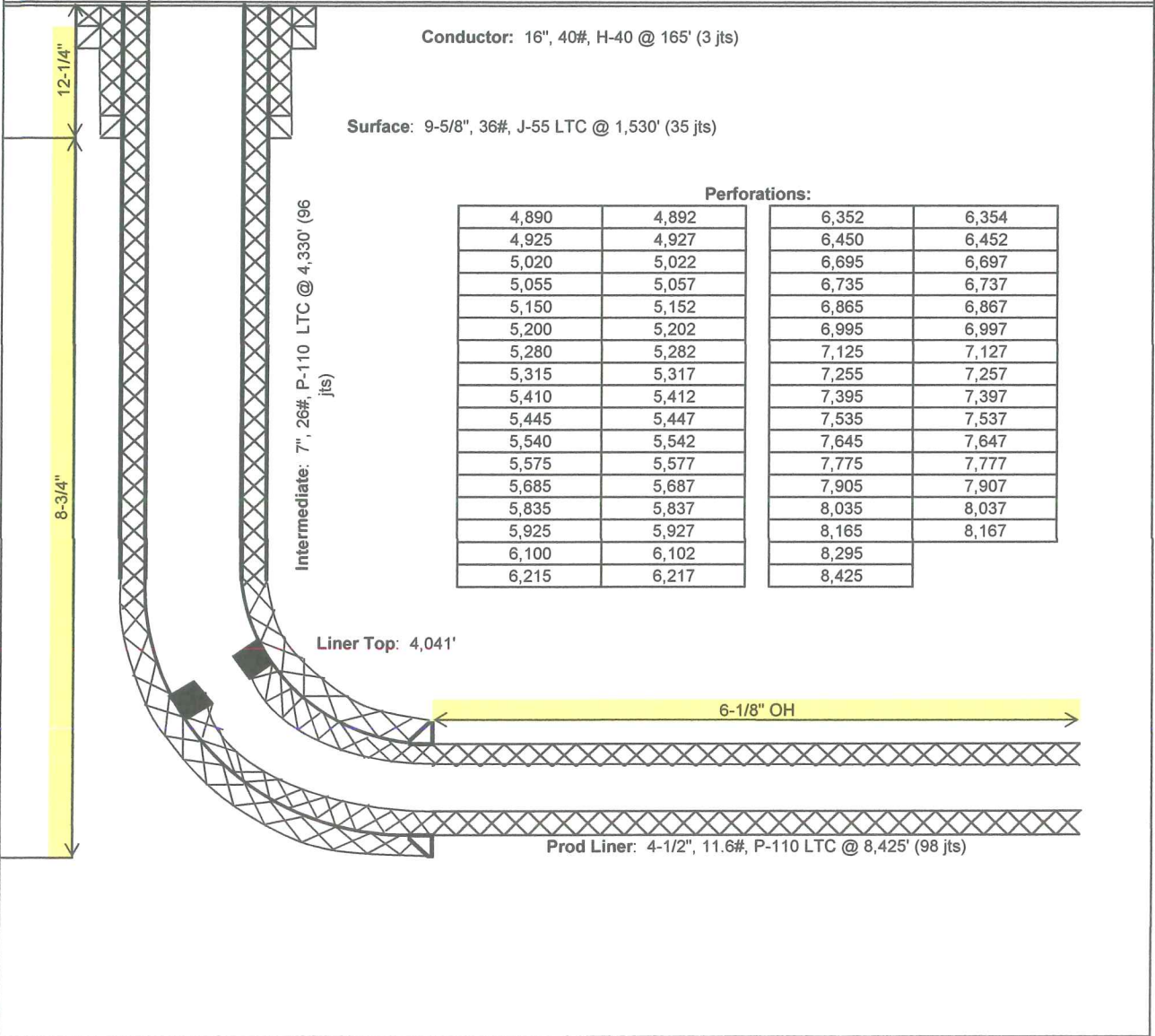
**Unit Petroleum Company**

Date of Last Revision:  
**11-Feb-14**

**Well:** Dye Trust 30 #1H  
**Location:** 30-25S-10W  
**County, State:** Reno County, KS  
**Surface Location:** 175' FNL & 800' FWL

**API No.:** 1515521671  
**Rig:** Unit Drilling #331  
**Engineer:** Brent Keys (918) 477-4510  
**Geology:** Rob Wilson (928) 477-5728

**OH Size**



**Perforations:**

4,890	4,892	6,352	6,354
4,925	4,927	6,450	6,452
5,020	5,022	6,695	6,697
5,055	5,057	6,735	6,737
5,150	5,152	6,865	6,867
5,200	5,202	6,995	6,997
5,280	5,282	7,125	7,127
5,315	5,317	7,255	7,257
5,410	5,412	7,395	7,397
5,445	5,447	7,535	7,537
5,540	5,542	7,645	7,647
5,575	5,577	7,775	7,777
5,685	5,687	7,905	7,907
5,835	5,837	8,035	8,037
5,925	5,927	8,165	8,167
6,100	6,102	8,295	
6,215	6,217	8,425	

# **Unit Petroleum**

**Reno County, Kansas  
Section 30 T25S-R10W  
Dye Trust 30 #1H**

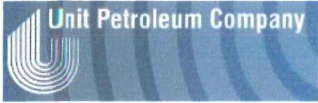
**OH**

**Design: OH**

## **Standard Survey Report**

**08 November, 2013**





Unit Petroleum  
 Project: Reno County, Kansas  
 Site: Section 30 T26S-R10W  
 Well: Dye Trust 30 #1H  
 Wellbore: OH  
 Design: Design #1  
 Lat: 37° 51' 11.176 N  
 Long: 98° 28' 9.767 W  
 Pad GL: 1799.00  
 KB: 14' KB @ 1813.00usft (UDI 331)



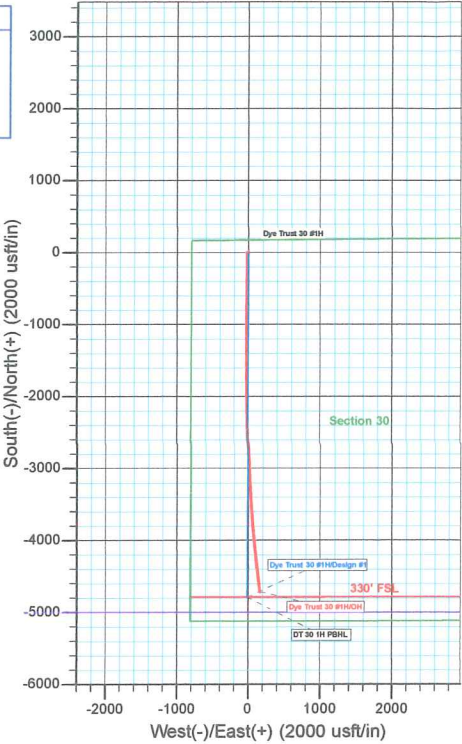
SECTION DETAILS										
MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	Vsect		
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
3362.49	0.00	0.00	3362.49	0.00	0.00	0.00	0.00	0.00		
3922.49	56.00	180.19	3837.49	-252.96	-0.84	10.00	180.19	252.56		
4072.49	56.00	180.19	3921.37	-376.92	-1.25	0.00	0.00	376.92		
4354.10	89.79	180.19	4003.00	-642.16	-2.13	12.00	0.00	642.19		
6499.27	89.79	180.19	4018.00	-4787.30	-16.00	0.00	0.00	4787.33		

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

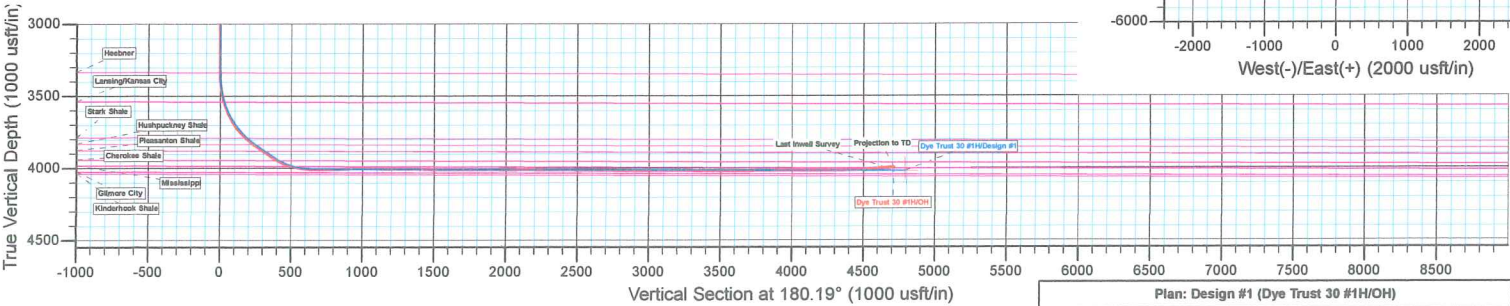
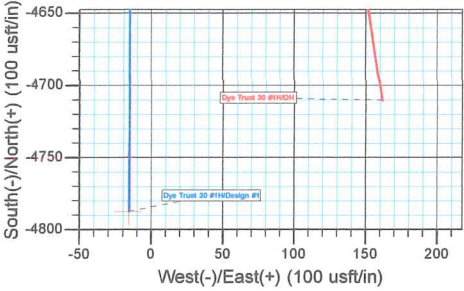
WELL DETAILS: Dye Trust 30 #1H						
+N-S	+E-W	Northing	Ground Level: Easting	1799.00 Latitude	Longitude	Slot
0.00	0.00	1744343.00	1321174.00	37° 51' 11.176 N	98° 28' 9.767 W	

T G M  
 Azimuths to Grid North  
 True North: -0.02°  
 Magnetic North: 4.68°  
 Magnetic Field  
 Strength: 52084.3nT  
 Dip Angle: 65.77°  
 Date: 10/16/2013  
 Model: IGRF2010

WELLBORE TARGET DETAILS (LAT/LONG)						
Name	TVD	+N-S	+E-W	Latitude	Longitude	Shape Point
DT 30 1H PBHL	4018.00	-4787.30	-16.00	37° 50' 23.849 N	98° 28' 9.986 W	



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



Plan: Design #1 (Dye Trust 30 #1H/OH)  
 Created By: Derek Stephens Date: 8:03, November 08 2013

<b>Company:</b>	Unit Petroleum	<b>Local Co-ordinate Reference:</b>	Well Dye Trust 30 #1H
<b>Project:</b>	Reno County, Kansas	<b>TVD Reference:</b>	14' KB @ 1813.00usft (UDI 331)
<b>Site:</b>	Section 30 T25S-R10W	<b>MD Reference:</b>	14' KB @ 1813.00usft (UDI 331)
<b>Well:</b>	Dye Trust 30 #1H	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	OH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	OH	<b>Database:</b>	EDM 5000.1 Single User Db

<b>Project</b>	Reno County, Kansas		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	Kansas Southern Zone	Using geodetic scale factor	

<b>Site</b>	Section 30 T25S-R10W				
<b>Site Position:</b>		<b>Northing:</b>	1,744,343.00 usft	<b>Latitude:</b>	37° 51' 11.176 N
<b>From:</b>	Map	<b>Easting:</b>	1,321,174.00 usft	<b>Longitude:</b>	98° 28' 9.767 W
<b>Position Uncertainty:</b>	0.00 usft	<b>Slot Radius:</b>	13-3/16 "	<b>Grid Convergence:</b>	0.02 °

<b>Well</b>	Dye Trust 30 #1H					
<b>Well Position</b>	<b>+N/-S</b>	0.00 usft	<b>Northing:</b>	1,744,343.00 usft	<b>Latitude:</b>	37° 51' 11.176 N
	<b>+E/-W</b>	0.00 usft	<b>Easting:</b>	1,321,174.00 usft	<b>Longitude:</b>	98° 28' 9.767 W
<b>Position Uncertainty</b>		0.00 usft	<b>Wellhead Elevation:</b>	usft	<b>Ground Level:</b>	1,799.00 usft

<b>Wellbore</b>	OH				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2010	10/18/2013	4.70	65.77	52,084

<b>Design</b>	OH				
<b>Audit Notes:</b>					
<b>Version:</b>	1.0	<b>Phase:</b>	ACTUAL	<b>Tie On Depth:</b>	0.00
<b>Vertical Section:</b>	<b>Depth From (TVD) (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Direction (°)</b>	
	0.00	0.00	0.00	180.19	

<b>Survey Program</b>	<b>Date</b>	11/8/2013			
<b>From (usft)</b>	<b>To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>	
125.37	3,264.00	Gyro (OH)	CB-GYRO-MS	Camera based gyro multishot	
3,295.00	8,440.00	MWD (OH)	MWD	MWD - Standard	

<b>Survey</b>										
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	0.00
125.37	0.67	326.30	125.37	0.61	-0.41	-0.61	0.53	0.53	0.00	
220.48	0.80	327.01	220.47	1.63	-1.08	-1.63	0.14	0.14	0.75	
315.59	0.82	324.11	315.57	2.74	-1.84	-2.73	0.05	0.02	-3.05	
410.70	0.90	320.54	410.67	3.87	-2.71	-3.86	0.10	0.08	-3.75	
505.81	0.78	330.75	505.77	5.01	-3.50	-5.00	0.20	-0.13	10.73	
600.92	0.99	324.35	600.87	6.24	-4.30	-6.23	0.24	0.22	-6.73	
696.03	0.68	321.34	695.97	7.35	-5.13	-7.33	0.33	-0.33	-3.16	
791.14	0.65	313.19	791.07	8.16	-5.87	-8.14	0.10	-0.03	-8.57	
886.25	0.50	299.80	886.18	8.73	-6.63	-8.71	0.21	-0.16	-14.08	



<b>Company:</b>	Unit Petroleum	<b>Local Co-ordinate Reference:</b>	Well Dye Trust 30 #1H
<b>Project:</b>	Reno County, Kansas	<b>TVD Reference:</b>	14' KB @ 1813.00usft (UDI 331)
<b>Site:</b>	Section 30 T25S-R10W	<b>MD Reference:</b>	14' KB @ 1813.00usft (UDI 331)
<b>Well:</b>	Dye Trust 30 #1H	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	OH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	OH	<b>Database:</b>	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)
981.36	0.30	286.48	981.28	9.01	-7.23	-8.99	0.23	-0.21	-14.00
1,076.47	0.46	256.24	1,076.39	8.99	-7.84	-8.96	0.26	0.17	-31.79
1,171.58	0.44	244.74	1,171.50	8.74	-8.54	-8.72	0.10	-0.02	-12.09
1,266.69	0.25	226.63	1,266.61	8.45	-9.02	-8.42	0.23	-0.20	-19.04
1,361.80	0.48	222.25	1,361.72	8.01	-9.44	-7.98	0.24	0.24	-4.61
1,456.91	0.80	219.57	1,456.82	7.20	-10.13	-7.17	0.34	0.34	-2.82
1,552.02	0.63	217.67	1,551.92	6.28	-10.87	-6.24	0.18	-0.18	-2.00
1,647.13	0.66	225.37	1,647.03	5.48	-11.58	-5.44	0.10	0.03	8.10
1,742.24	0.97	239.37	1,742.13	4.68	-12.66	-4.64	0.39	0.33	14.72
1,837.35	0.47	255.19	1,837.23	4.17	-13.73	-4.13	0.56	-0.53	16.63
1,932.46	0.60	277.82	1,932.33	4.14	-14.60	-4.09	0.26	0.14	23.79
2,027.57	0.45	266.14	2,027.44	4.18	-15.47	-4.13	0.19	-0.16	-12.28
2,122.68	0.34	236.64	2,122.55	4.00	-16.08	-3.95	0.24	-0.12	-31.02
2,217.79	0.09	205.37	2,217.66	3.78	-16.35	-3.72	0.28	-0.26	-32.88
2,312.90	0.22	249.09	2,312.77	3.65	-16.55	-3.59	0.18	0.14	45.97
2,408.01	0.41	287.15	2,407.88	3.68	-17.04	-3.63	0.29	0.20	40.02
2,503.12	0.41	256.01	2,502.98	3.70	-17.70	-3.64	0.23	0.00	-32.74
2,598.23	0.55	242.61	2,598.09	3.41	-18.43	-3.35	0.19	0.15	-14.09
2,693.34	0.59	237.20	2,693.20	2.93	-19.25	-2.87	0.07	0.04	-5.69
2,788.45	0.37	231.56	2,788.30	2.48	-19.90	-2.41	0.24	-0.23	-5.93
2,883.56	0.37	241.90	2,883.41	2.14	-20.41	-2.07	0.07	0.00	10.87
2,978.67	0.39	252.86	2,978.52	1.90	-21.00	-1.83	0.08	0.02	11.52
3,073.78	0.12	276.11	3,073.63	1.82	-21.40	-1.74	0.30	-0.28	24.45
3,168.89	0.18	284.23	3,168.74	1.86	-21.65	-1.79	0.07	0.06	8.54
3,264.00	0.12	301.99	3,263.85	1.95	-21.88	-1.88	0.08	-0.06	18.67
3,295.00	0.30	315.50	3,294.85	2.03	-21.96	-1.95	0.60	0.58	43.58
3,327.00	0.10	303.40	3,326.85	2.10	-22.04	-2.03	0.64	-0.63	-37.81
3,359.00	1.10	176.50	3,358.84	1.81	-22.05	-1.74	3.63	3.13	-396.56
3,390.00	3.50	173.80	3,389.82	0.57	-21.93	-0.50	7.75	7.74	-8.71
3,422.00	6.10	174.00	3,421.70	-2.09	-21.64	2.16	8.13	8.13	0.63
3,453.00	8.90	175.00	3,452.43	-6.12	-21.26	6.19	9.04	9.03	3.23
3,485.00	11.40	177.10	3,483.93	-11.74	-20.89	11.81	7.90	7.81	6.56
3,516.00	13.80	178.40	3,514.18	-18.50	-20.63	18.57	7.80	7.74	4.19
3,548.00	16.40	178.00	3,545.07	-26.83	-20.36	26.90	8.13	8.13	-1.25
3,579.00	19.30	177.40	3,574.58	-36.32	-19.98	36.39	9.37	9.35	-1.94
3,610.00	22.50	177.10	3,603.54	-47.37	-19.45	47.43	10.33	10.32	-0.97
3,642.00	25.90	177.60	3,632.72	-60.47	-18.84	60.53	10.64	10.63	1.56
3,674.00	29.40	178.30	3,661.06	-75.31	-18.32	75.37	10.98	10.94	2.19
3,705.00	32.80	179.70	3,687.60	-91.31	-18.05	91.37	11.21	10.97	4.52
3,737.00	36.10	181.00	3,713.99	-109.41	-18.17	109.47	10.56	10.31	4.06
3,768.00	39.70	181.50	3,738.44	-128.45	-18.59	128.51	11.66	11.61	1.61
3,800.00	43.50	181.80	3,762.37	-149.68	-19.20	149.74	11.89	11.88	0.94
3,832.00	47.60	182.30	3,784.77	-172.50	-20.02	172.57	12.86	12.81	1.56



<b>Company:</b>	Unit Petroleum	<b>Local Co-ordinate Reference:</b>	Well Dye Trust 30 #1H
<b>Project:</b>	Reno County, Kansas	<b>TVD Reference:</b>	14' KB @ 1813.00usft (UDI 331)
<b>Site:</b>	Section 30 T25S-R10W	<b>MD Reference:</b>	14' KB @ 1813.00usft (UDI 331)
<b>Well:</b>	Dye Trust 30 #1H	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	OH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	OH	<b>Database:</b>	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)	
3,864.00	51.60	181.70	3,805.51	-196.85	-20.87	196.92	12.58	12.50	-1.88	
3,896.00	53.90	180.70	3,824.88	-222.32	-21.40	222.39	7.61	7.19	-3.13	
3,926.00	55.00	180.90	3,842.32	-246.72	-21.74	246.79	3.71	3.67	0.67	
3,957.00	55.20	180.60	3,860.06	-272.15	-22.07	272.22	1.02	0.65	-0.97	
3,989.00	55.40	181.00	3,878.27	-298.45	-22.44	298.52	1.20	0.63	1.25	
4,020.00	55.50	180.70	3,895.85	-323.98	-22.82	324.06	0.86	0.32	-0.97	
4,052.00	55.90	180.60	3,913.89	-350.41	-23.12	350.49	1.28	1.25	-0.31	
4,084.00	58.30	180.60	3,931.27	-377.28	-23.40	377.36	7.50	7.50	0.00	
4,116.00	61.80	180.90	3,947.24	-405.00	-23.76	405.08	10.97	10.94	0.94	
4,148.00	65.60	180.90	3,961.42	-433.68	-24.21	433.76	11.88	11.88	0.00	
4,179.00	69.50	181.00	3,973.25	-462.32	-24.69	462.40	12.58	12.58	0.32	
4,211.00	73.50	181.30	3,983.40	-492.65	-25.30	492.73	12.53	12.50	0.94	
4,243.00	77.40	181.40	3,991.44	-523.61	-26.03	523.70	12.19	12.19	0.31	
4,275.00	81.50	181.40	3,997.30	-555.06	-26.80	555.14	12.81	12.81	0.00	
4,286.00	82.90	181.20	3,998.79	-565.95	-27.04	566.04	12.85	12.73	-1.82	
4,379.00	88.70	180.80	4,005.60	-658.65	-28.66	658.74	6.25	6.24	-0.43	
4,440.00	90.30	180.90	4,006.13	-719.64	-29.56	719.73	2.63	2.62	0.16	
4,502.00	91.60	180.50	4,005.10	-781.62	-30.32	781.72	2.19	2.10	-0.65	
4,564.00	91.10	180.50	4,003.64	-843.60	-30.86	843.70	0.81	-0.81	0.00	
4,625.00	90.70	180.10	4,002.69	-904.59	-31.18	904.69	0.93	-0.66	-0.66	
4,687.00	89.20	180.50	4,002.74	-966.59	-31.51	966.69	2.50	-2.42	0.65	
4,749.00	90.60	180.30	4,002.85	-1,028.59	-31.94	1,028.69	2.28	2.26	-0.32	
4,810.00	89.40	179.90	4,002.85	-1,089.59	-32.05	1,089.69	2.07	-1.97	-0.66	
4,872.00	90.60	179.90	4,002.85	-1,151.58	-31.94	1,151.68	1.94	1.94	0.00	
4,934.00	90.00	180.40	4,002.52	-1,213.58	-32.10	1,213.68	1.26	-0.97	0.81	
4,996.00	89.30	180.40	4,002.90	-1,275.58	-32.53	1,275.68	1.13	-1.13	0.00	
5,057.00	90.20	180.10	4,003.17	-1,336.58	-32.80	1,336.68	1.56	1.48	-0.49	
5,120.00	88.10	179.30	4,004.10	-1,399.57	-32.47	1,399.67	3.57	-3.33	-1.27	
5,181.00	88.30	179.10	4,006.02	-1,460.53	-31.62	1,460.63	0.46	0.33	-0.33	
5,242.00	89.30	179.10	4,007.30	-1,521.51	-30.66	1,521.60	1.64	1.64	0.00	
5,304.00	90.20	179.20	4,007.57	-1,583.50	-29.74	1,583.59	1.46	1.45	0.16	
5,365.00	91.80	179.40	4,006.50	-1,644.48	-29.00	1,644.57	2.64	2.62	0.33	
5,427.00	88.40	179.80	4,006.39	-1,706.47	-28.56	1,706.56	5.52	-5.48	0.65	
5,489.00	89.00	179.60	4,007.80	-1,768.46	-28.24	1,768.54	1.02	0.97	-0.32	
5,551.00	89.20	179.10	4,008.77	-1,830.44	-27.54	1,830.53	0.87	0.32	-0.81	
5,613.00	89.40	179.00	4,009.53	-1,892.43	-26.51	1,892.51	0.36	0.32	-0.16	
5,676.00	89.80	179.30	4,009.97	-1,955.42	-25.57	1,955.50	0.79	0.63	0.48	
5,737.00	90.10	179.10	4,010.02	-2,016.42	-24.72	2,016.49	0.59	0.49	-0.33	
5,798.00	90.40	178.80	4,009.76	-2,077.41	-23.60	2,077.47	0.70	0.49	-0.49	
5,860.00	90.90	178.40	4,009.05	-2,139.38	-22.09	2,139.44	1.03	0.81	-0.65	
5,922.00	89.70	178.80	4,008.73	-2,201.36	-20.57	2,201.42	2.04	-1.94	0.65	
5,983.00	89.00	178.80	4,009.42	-2,262.34	-19.30	2,262.40	1.15	-1.15	0.00	
6,045.00	89.60	178.80	4,010.18	-2,324.33	-18.00	2,324.37	0.97	0.97	0.00	



<b>Company:</b>	Unit Petroleum	<b>Local Co-ordinate Reference:</b>	Well Dye Trust 30 #1H
<b>Project:</b>	Reno County, Kansas	<b>TVD Reference:</b>	14' KB @ 1813.00usft (UDI 331)
<b>Site:</b>	Section 30 T25S-R10W	<b>MD Reference:</b>	14' KB @ 1813.00usft (UDI 331)
<b>Well:</b>	Dye Trust 30 #1H	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	OH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	OH	<b>Database:</b>	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)	
6,106.00	90.00	178.90	4,010.39	-2,385.31	-16.77	2,385.36	0.68	0.66	0.16	
6,168.00	90.00	178.80	4,010.39	-2,447.30	-15.53	2,447.34	0.16	0.00	-0.16	
6,229.00	90.10	178.40	4,010.34	-2,508.28	-14.04	2,508.32	0.68	0.16	-0.66	
6,291.00	89.70	178.40	4,010.45	-2,570.26	-12.31	2,570.28	0.65	-0.65	0.00	
6,353.00	89.10	177.90	4,011.10	-2,632.22	-10.31	2,632.24	1.26	-0.97	-0.81	
6,414.00	89.00	177.60	4,012.11	-2,693.17	-7.91	2,693.18	0.52	-0.16	-0.49	
6,476.00	88.40	177.50	4,013.51	-2,755.09	-5.26	2,755.10	0.98	-0.97	-0.16	
6,537.00	88.60	177.30	4,015.11	-2,816.01	-2.50	2,816.00	0.46	0.33	-0.33	
6,599.00	89.10	176.80	4,016.36	-2,877.91	0.69	2,877.90	1.14	0.81	-0.81	
6,661.00	90.20	176.70	4,016.73	-2,939.81	4.21	2,939.78	1.78	1.77	-0.16	
6,722.00	90.80	176.70	4,016.20	-3,000.71	7.72	3,000.67	0.98	0.98	0.00	
6,784.00	90.00	177.30	4,015.77	-3,062.62	10.96	3,062.57	1.61	-1.29	0.97	
6,846.00	90.20	177.30	4,015.66	-3,124.55	13.89	3,124.49	0.32	0.32	0.00	
6,907.00	90.90	176.80	4,015.08	-3,185.47	17.02	3,185.39	1.41	1.15	-0.82	
6,969.00	89.10	176.90	4,015.08	-3,247.37	20.43	3,247.29	2.91	-2.90	0.16	
7,030.00	89.00	176.70	4,016.09	-3,308.27	23.84	3,308.17	0.37	-0.16	-0.33	
7,092.00	89.10	176.30	4,017.12	-3,370.14	27.62	3,370.03	0.66	0.16	-0.65	
7,154.00	89.80	175.80	4,017.71	-3,431.99	31.89	3,431.87	1.39	1.13	-0.81	
7,215.00	90.20	175.40	4,017.71	-3,492.81	36.57	3,492.67	0.93	0.66	-0.66	
7,277.00	91.00	174.80	4,017.06	-3,554.58	41.87	3,554.42	1.61	1.29	-0.97	
7,338.00	90.70	174.40	4,016.16	-3,615.31	47.61	3,615.13	0.82	-0.49	-0.66	
7,400.00	90.20	175.40	4,015.67	-3,677.06	53.12	3,676.86	1.80	-0.81	1.61	
7,462.00	89.90	176.00	4,015.62	-3,738.88	57.77	3,738.67	1.08	-0.48	0.97	
7,524.00	90.40	175.60	4,015.45	-3,800.72	62.31	3,800.49	1.03	0.81	-0.65	
7,586.00	89.10	175.50	4,015.72	-3,862.53	67.12	3,862.28	2.10	-2.10	-0.16	
7,647.00	90.10	175.20	4,016.15	-3,923.32	72.06	3,923.06	1.71	1.64	-0.49	
7,709.00	91.00	174.90	4,015.55	-3,985.09	77.41	3,984.81	1.53	1.45	-0.48	
7,771.00	89.90	174.80	4,015.07	-4,046.84	82.98	4,046.54	1.78	-1.77	-0.16	
7,833.00	90.10	174.40	4,015.07	-4,108.56	88.81	4,108.24	0.72	0.32	-0.65	
7,894.00	88.80	175.00	4,015.65	-4,169.29	94.45	4,168.96	2.35	-2.13	0.98	
7,956.00	90.10	174.70	4,016.25	-4,231.04	100.01	4,230.68	2.15	2.10	-0.48	
8,018.00	90.60	174.10	4,015.87	-4,292.74	106.06	4,292.36	1.26	0.81	-0.97	
8,080.00	91.30	173.70	4,014.84	-4,354.38	112.65	4,353.98	1.30	1.13	-0.65	
8,142.00	91.80	173.10	4,013.16	-4,415.95	119.77	4,415.52	1.26	0.81	-0.97	
8,203.00	92.70	172.70	4,010.77	-4,476.43	127.31	4,475.98	1.61	1.48	-0.66	
8,265.00	93.90	172.40	4,007.20	-4,537.81	135.33	4,537.33	1.99	1.94	-0.48	
8,327.00	94.30	171.30	4,002.77	-4,599.02	144.10	4,598.52	1.88	0.65	-1.77	
8,388.00	94.90	171.10	3,997.88	-4,659.11	153.40	4,658.57	1.04	0.98	-0.33	
<b>Last Inwell Survey</b>										
8,440.00	94.90	171.10	3,993.43	-4,710.30	161.41	4,709.73	0.00	0.00	0.00	
<b>Projection to TD - DT 30 1H PBHL</b>										





<b>Company:</b>	Unit Petroleum	<b>Local Co-ordinate Reference:</b>	Well Dye Trust 30 #1H
<b>Project:</b>	Reno County, Kansas	<b>TVD Reference:</b>	14' KB @ 1813.00usft (UDI 331)
<b>Site:</b>	Section 30 T25S-R10W	<b>MD Reference:</b>	14' KB @ 1813.00usft (UDI 331)
<b>Well:</b>	Dye Trust 30 #1H	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	OH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	OH	<b>Database:</b>	EDM 5000.1 Single User Db

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N-S (usft)	+E-W (usft)	
8,388.00	3,997.88	-4,659.11	153.40	Last Inwell Survey
8,440.00	3,993.43	-4,710.30	161.41	Projection to TD

Checked By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Date: \_\_\_\_\_

Customer <i>UNIT - Petroland</i>		Lease No.		Date	
Lease <i>ONE TRUST</i>		Well # <i>30-1-H</i>		<i>11-09-13</i>	
Field Order # <i>9525</i>	Station <i>PRATT KS</i>	Casing <i>4 1/2</i>	Depth <i>8440'</i>	County <i>RENO</i>	State <i>KS</i>
Type Job <i>CNW 4 1/2 LINNEX</i>			Formation	Legal Description <i>30-25-10</i>	

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size <i>4 1/2</i>	Tubing Size	Shots/Ft <i>FWDP</i>	<i>1478.63</i>	Acid	RATE	PRESS	ISIP	
Depth <i>8381'</i>	Depth	From <i>OP</i>	To <i>1943.82</i>	Pre Pad	Max		5 Min.	
Volume <i>608</i>	Volume	From <i>608</i>	To <i>648</i>	Pad	Min		10 Min.	
Max Press	Max Press	From <i>4 1/2 cy</i>	To <i>4381</i>	Frac	Avg		15 Min.	
Well Connection	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Plug Depth	Packer Depth	From	To	Flush	Gas Volume		Total Load	

Customer Representative				Station Manager <i>DAVE SCOTT</i>				Treater <i>[Signature]</i>			
Service Units	<i>37900</i>	<i>19889</i>	<i>19843</i>	<i>19903</i>	<i>73268</i>	<i>19859</i>	<i>19918</i>				
Driver Names	<i>Sullivan</i>	<i>GRAVES</i>			<i>NATHAN SMITH</i>						

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>8:15</i>					<i>on the site, ready</i>
					<i>cut 4 1/2 lines w/ 525 k Petroland cut</i>
					<i>1.24 yield 90' for 5.43 min @ 15.6 gpm</i>
<i>11:10</i>	<i>4,000</i>				<i>Pressure Test Line</i>
	<i>2,000</i>				<i>Rig Pumped call down</i>
					<i>Pressure down</i>
					<i>set line</i>
<i>11:15</i>	<i>2,850</i>		<i>4</i>		<i>Pump call out</i>
<i>11:20</i>			<i>12</i>	<i>4.5</i>	<i>at mud flush</i>
<i>11:40</i>			<i>30</i>		<i>mix 175k shut down truck down</i>
					<i>Hook Rig circ 4/4 de clear</i>
<i>2:10</i>	<i>500</i>			<i>5.5</i>	<i>at mixing cut 525 k Petroland cut</i>
			<i>117</i>		<i>cut mixed shut down wash line perf</i>
<i>2:45</i>	<i>300</i>			<i>3.5</i>	<i>Release the AND ST Disp</i>
	<i>1,950</i>		<i>85</i>	<i>2.5</i>	<i>Slow Rate</i>
<i>3:10</i>			<i>90</i>		<i>Play down</i>
					<i>Release PSI</i>
<i>3:15</i>	<i>1,400</i>			<i>5</i>	<i>at reverse out</i>
<i>4:40</i>			<i>115</i>		<i>shut down circ 4/4 BBL cut Pit</i>
<i>4:45</i>	<i>1,100</i>				<i>close Rams Test</i>
					<i>good SOB - complete</i>
					<i>Thank you</i>

Customer <u>Unit Petroleum</u>		Lease No.	Date <u>11-1-13</u>	
Lease <u>Dye Trust</u>		Well # <u>30 # 1 H</u>		
Field Order # <u>9063</u>	Station <u>Pratt</u>	Casing <u>7"</u>	Depth <u>4330</u>	County <u>RenO</u> State <u>KS</u>
Type Job <u>Intermediate</u>		Formation <u>CNW</u>	Legal Description <u>30-255-10</u>	

PIPE DATA		PERFORATING DATA		FLUID USED	TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP
Depth <u>4330</u>	Depth	From	To	Pre Pad	Max		5 Min.
Volume <u>166</u>	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 <u>4340</u>	Packer Depth	From	To	Flush	Gas Volume		Total Load

Customer Representative <u>Larry</u>		Station Manager <u>Kevin</u>		Treater <u>Joe</u>
Service Units <u>19989-19943</u>	<u>19931</u>	<u>19862</u>	<u>28443</u>	
Driver Names <u>ED</u>	<u>TIM</u>	<u>JOE</u>		

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
1500					on Loc / safety meeting
					Run JTS of 7" 26# CSS
1815			5	5	H2O spacer
			12	5	Mud flush
			5	6	H2O spacer
			40	6	mix 160 SK AA2 cement with add
			<del>5</del>	<del>5</del>	shut down / clear pump & lines
			<del>5</del>	<del>5</del>	Release Plug
1830			<del>5</del>	7.00	Start H2O Disp.
			124	6.5	LIFT PSI
			156	5	slow Rate
1900	1200		166	5	Plug Down

JOB COMPLETE  
Thank you  
JAP

# BASIC

energy services, L.P.

## TREATMENT REPORT

Customer Unit Petroleum Company	Lease No.	Date 10-28-13
Lease Dye Trust 30	Well # 1H	
Field Order # 1386	Station Pratt, Kansas	Casing 7 7/8 36Lb
Type Job CNW - Surface	Formation	Depth 1,529 Feet
		County Reno
		State Kansas
		Legal Description 30-255-10W

PIPE DATA		PERFORATING DATA		FLUID USED	TREATMENT RESUME		
Casing Size 7 7/8 36Lb/ft	Tubing Size 4 1/2	Shots/Ft 325	sacks	A-con with 380 Calcium Chloride, 25 lb/st. cell flake	RATE 14.49 Gal./st.	PRESS 2.4	ISIP 5 Min.
Depth 1,529 Feet	Depth	From	To	12 lb./Gal.	Max		700 FT./st.
Volume 118.2 Bbl.	Volume	From	To		Min		10 Min.
Max Press 600 P.S.I.	Max Press	From 280	To	Common with 280 Calcium Chloride, 25 lb./st. cell flake	Avg		15 Min.
Well Connection Plug Container	Annulus Vol.	From	To	15.6 lb./Gal., 5.23 Gal./st., 1.20 cu. ft./st.	HHP Used		Annulus Pressure
Plug Depth 1,529 Feet	Packer Depth	From	To	Flush 118.2 Bbl. Fresh Water	Gas Volume		Total Load

Customer Representative Larry	Station Manager Kevin Gordley	Treater Clarence R. Messick
Service Units 37,26	77,686	19,905
Driver Names Messick	Mc Graw	JANTHONY JANTHONY SMILEY

Time AM	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
6:15					Trucks on location and hold safety meeting.
					Casing Being run upon arrival.
7:15					Casing in well. Circulate for 1.5 Hours
8:40		2,000			Shut in well. Pressure Test. Open well.
	300			5	Start Fresh water Pre-Flush.
	300		10	6	Start mixing 325 sacks A-con Blend cement.
	250		153	5	Start mixing 280 sacks Common cement.
	-0-		213		Stop pumping. Shut in well. Release Top Rubber Plug. Open Well.
9:27	150			6.5	Start Fresh water Displacement
9:45	600		118.2		Plug down.
					Open release. Float Shoe held.
					Wash up pump truck.
10:30					Job Complete.
					Thank You.
					Clarence, Mike, Tim, Nathan