



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
-----------------------------------	-----------------	---

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: \_\_\_\_\_

1234550

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
--	---

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

<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> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
--	---	---

Form	ACO1 - Well Completion
Operator	Unit Petroleum Company
Well Name	Black Farms 30 1-H
Doc ID	1234550

### 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	140	Common	144	Common
Intermediate	12.25	9.625	36	1530	A	580	2% CC + 1/4# celloflake
Intermediate	8.75	7	26	4058	A	160	5% gyp + 10% salt
Production	6.125	5.50	20	8440	Prem H	510	2% CC + 0.6% FL - 160
Production	6.125	4.50	11.6	8440	Prem H	510	2% CC + 0.6% FL - 160

## Summary of Changes

Lease Name and Number: Black Farms 30 1-H

API/Permit #: 15-155-21676-01-00

Doc ID: 1234550

Correction Number: 1

Approved By: NAOMI JAMES

Field Name	Previous Value	New Value
Approved Date	03/28/2014	12/09/2014
Save Link	../../../../kcc/detail/operatorE ditDetail.cfm?docID=11 95530	../../../../kcc/detail/operatorE ditDetail.cfm?docID=12 34550
Well Type	GAS	OIL



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1195530  
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
-----------------------------------	-----------------	---

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
---	---	------------------------------------

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:	
----------------	-------	---------	------------	--

Form	ACO1 - Well Completion
Operator	Unit Petroleum Company
Well Name	Black Farms 30 1-H
Doc ID	1195530

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
6	4200 - 8224		

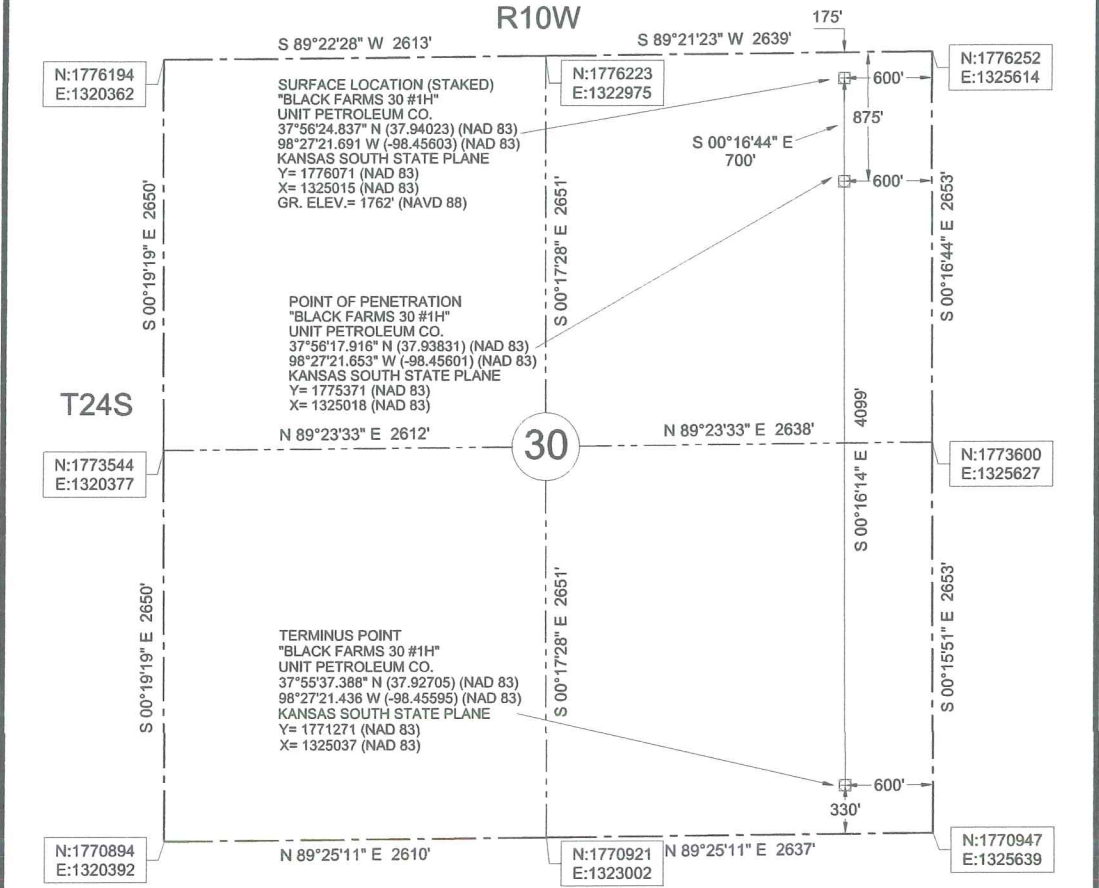
Form	ACO1 - Well Completion
Operator	Unit Petroleum Company
Well Name	Black Farms 30 1-H
Doc ID	1195530

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	140	Common	144	Common
Intermediate	12.25	9.625	36	1530	A	580	2% CC + 1/4# celloflake
Intermediate	8.75	7	26	4058	A	160	5% gyp + 10% salt
Production	6.125	5.50	20	8440	Prem H	510	2% CC + 0.6% FL - 160
Production	6.125	4.50	11.6	8440	Prem H	510	2% CC + 0.6% FL - 160



# Section 30, T 24 S, R 10 W., Reno County, Kansas.



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.

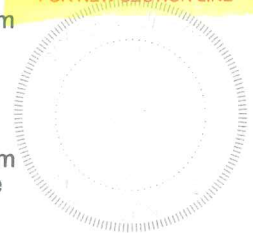


**Description: Surface Hole Location Stake**  
"Black Farms 30 #1H" situated 175 feet from the north section line and 600 feet from the east section line of Section 30, T 24 S, R 10 W., Reno County, Kansas.

**Description: Point of Penetration**  
"Black Farms 30 #1H" situated 875 feet from the north section line and 600 feet from the east section line of Section 30, T 24 S, R 10 W., Reno County, Kansas.

**Description: Terminus Point**  
"Black Farms 30 #1H" situated 330 feet from the south section line and 600 feet from the east section line of Section 30, T 24 S, R 10 W., Reno County, Kansas.

REVISED 11-19-2013:  
EDITED COORDINATES  
FOR NEW SECTION LINE



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 Rummy	673-13	11-06-2013	1"=1000'	1 OF 5
		DRAWN BY C.M.G.	OKLA. CA #2064, EXP. 06/30/2015 KANSAS CA #143, EXP. 12/31/2014			

# **Unit Petroleum**

**Reno County, Kansas [NAD 83]**

**Section 30 T25S-R10W**

**Black Farms 30-1H**

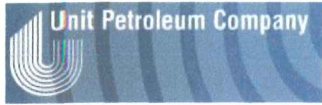
**OH**

**Design: OH**

## **Standard Survey Report**

**21 January, 2014**





Unit Petroleum  
 Project: Reno County, Kansas [NAD 83]  
 Site: Section 30 T255-R10W  
 Well: Black Farms 30-1H  
 Wellbore: OH  
 Design: Design #5  
 Lat: 37° 56' 24.841 N  
 Long: 98° 27' 21.687 W  
 Pad GL: 1761.00  
 KB: 20' KB @ 1781.00usft (UDI 303)



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	
3134.49	0.00	0.00	3134.49	0.00	0.00	0.00	0.00	0.00	
3694.49	56.00	179.74	3699.49	-252.56	1.15	10.00	179.74	252.56	
3844.49	56.00	179.74	3693.37	-376.92	1.71	0.00	0.00	376.92	
4127.82	90.00	179.74	3775.00	-643.91	2.93	12.00	-0.01	643.91	
8264.27	90.00	179.74	3775.00	-4800.31	22.00	0.00	0.00	4800.36	

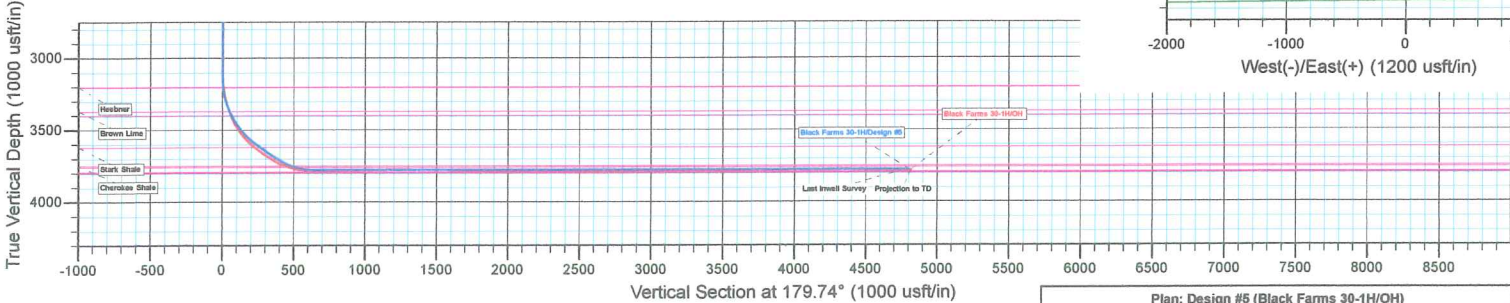
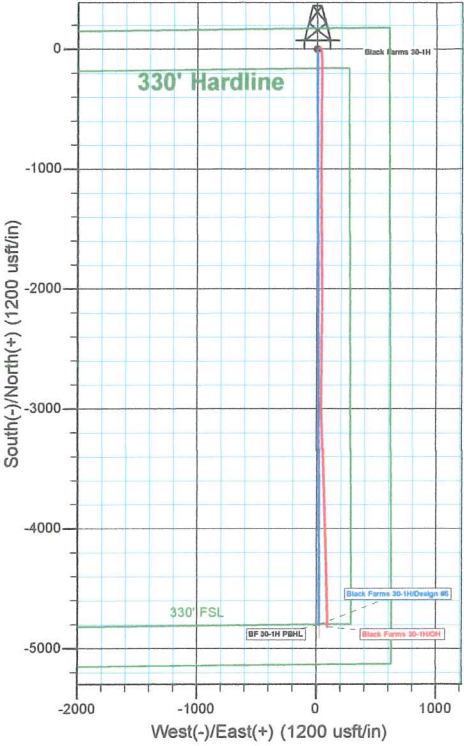
WELL DETAILS: Black Farms 30-1H						
+N-S	+E-W	Northing	Ground Level: Easting	1761.00 Latitude	Longitude	Slot
0.00	0.00	1776071.00	1325015.00	37° 56' 24.841 N	98° 27' 21.687 W	

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

WELLBORE TARGET DETAILS (LAT/LONG)						
Name	TVD	+N-S	+E-W	Latitude	Longitude	Shape Point
BF 30-1H PBHL	3775.00	-4800.31	22.00	37° 55' 37.386 N	98° 27' 21.441 W	

Azimuths to Grid North  
 True North: -0.03°  
 Magnetic North: 4.64°  
 Magnetic Field  
 Strength: 52111.9nT  
 Dip Angle: 65.83°  
 Date: 12/25/2013  
 Model: IGRF2010

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



Plan: Design #5 (Black Farms 30-1H/OH)  
 Created By: Derek Stephens Date: 5:35, January 21 2014





<b>Company:</b>	Unit Petroleum	<b>Local Co-ordinate Reference:</b>	Well Black Farms 30-1H
<b>Project:</b>	Reno County, Kansas [NAD 83]	<b>TVD Reference:</b>	20' KB @ 1781.00usft (UDI 303)
<b>Site:</b>	Section 30 T25S-R10W	<b>MD Reference:</b>	20' KB @ 1781.00usft (UDI 303)
<b>Well:</b>	Black Farms 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 [NAD 83]		
<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>	1,776,071.00 usft	<b>Latitude:</b>	37° 56' 24.841 N
<b>From:</b>	Map	<b>Easting:</b>	1,325,015.00 usft	<b>Longitude:</b>	98° 27' 21.687 W
<b>Position Uncertainty:</b>	0.00 usft	<b>Slot Radius:</b>	13-3/16 "	<b>Grid Convergence:</b>	0.03 °

<b>Well</b>	Black Farms 30-1H					
<b>Well Position</b>	+N/-S	0.00 usft	<b>Northing:</b>	1,776,071.00 usft	<b>Latitude:</b>	37° 56' 24.841 N
	+E/-W	0.00 usft	<b>Easting:</b>	1,325,015.00 usft	<b>Longitude:</b>	98° 27' 21.687 W
<b>Position Uncertainty</b>		0.00 usft	<b>Wellhead Elevation:</b>	usft	<b>Ground Level:</b>	1,761.00 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	12/25/2013	4.67	65.83	52,112

<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	179.74	

<b>Survey Program</b>	<b>Date</b>	1/21/2014			
<b>From (usft)</b>	<b>To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>	
80.86	3,062.62	Gyro (OH)	CB-GYRO-MS	Camera based gyro multishot	
3,099.00	8,320.00	MWD (OH)	MWD	MWD - Standard	

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
80.86	0.78	54.40	80.86	0.32	0.45	-0.32	0.96	0.96		0.00
267.22	1.74	50.81	267.17	2.85	3.67	-2.83	0.52	0.52		-1.93
453.58	1.97	52.84	453.43	6.57	8.42	-6.53	0.13	0.12		1.09
639.94	1.44	62.36	639.71	9.59	13.04	-9.53	0.32	-0.28		5.11
826.30	1.10	74.27	826.02	11.16	16.84	-11.08	0.23	-0.18		6.39
1,012.66	0.83	78.24	1,012.36	11.92	19.88	-11.83	0.15	-0.14		2.13
1,199.02	0.65	99.56	1,198.70	12.02	22.25	-11.92	0.17	-0.10		11.44
1,385.38	1.05	132.43	1,385.04	10.69	24.55	-10.58	0.33	0.21		17.64
1,571.74	0.93	139.13	1,571.37	8.40	26.80	-8.28	0.09	-0.06		3.60



<b>Company:</b>	Unit Petroleum	<b>Local Co-ordinate Reference:</b>	Well Black Farms 30-1H
<b>Project:</b>	Reno County, Kansas [NAD 83]	<b>TVD Reference:</b>	20' KB @ 1781.00usft (UDI 303)
<b>Site:</b>	Section 30 T25S-R10W	<b>MD Reference:</b>	20' KB @ 1781.00usft (UDI 303)
<b>Well:</b>	Black Farms 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)
1,758.10	0.87	138.98	1,757.71	6.19	28.72	-6.06	0.03	-0.03	-0.08
1,944.46	1.00	136.49	1,944.05	3.94	30.77	-3.80	0.07	0.07	-1.34
2,130.82	0.69	151.91	2,130.39	1.77	32.42	-1.62	0.20	-0.17	8.27
2,317.18	0.87	157.92	2,316.73	-0.53	33.48	0.68	0.11	0.10	3.22
2,503.54	0.11	188.04	2,503.08	-2.02	33.98	2.17	0.42	-0.41	16.16
2,689.90	0.05	229.40	2,689.44	-2.25	33.90	2.40	0.04	-0.03	22.19
2,876.26	0.40	286.62	2,875.80	-2.12	33.21	2.27	0.20	0.19	30.70
3,062.62	0.58	323.89	3,062.15	-1.17	32.03	1.31	0.19	0.10	20.00
3,099.00	0.30	300.80	3,098.53	-0.97	31.84	1.12	0.90	-0.77	-63.47
3,131.00	1.50	189.50	3,130.53	-1.34	31.70	1.49	5.10	3.75	-347.81
3,162.00	3.80	181.50	3,161.49	-2.77	31.61	2.91	7.50	7.42	-25.81
3,194.00	6.50	177.50	3,193.36	-5.64	31.66	5.78	8.51	8.44	-12.50
3,225.00	9.10	176.30	3,224.07	-9.84	31.89	9.98	8.40	8.39	-3.87
3,256.00	11.80	174.70	3,254.55	-15.44	32.34	15.59	8.76	8.71	-5.16
3,288.00	14.20	174.90	3,285.73	-22.61	32.99	22.76	7.50	7.50	0.63
3,319.00	16.30	175.20	3,315.64	-30.73	33.70	30.89	6.78	6.77	0.97
3,351.00	18.30	175.90	3,346.19	-40.22	34.43	40.38	6.28	6.25	2.19
3,382.00	20.40	175.70	3,375.44	-50.46	35.18	50.62	6.78	6.77	-0.65
3,414.00	23.10	176.30	3,405.16	-62.29	36.01	62.45	8.47	8.44	1.88
3,445.00	26.30	176.60	3,433.32	-75.22	36.81	75.39	10.33	10.32	0.97
3,477.00	29.70	176.60	3,461.57	-90.21	37.70	90.38	10.63	10.63	0.00
3,508.00	32.90	177.10	3,488.05	-106.29	38.58	106.47	10.36	10.32	1.61
3,540.00	36.40	177.40	3,514.37	-124.46	39.45	124.64	10.95	10.94	0.94
3,572.00	39.80	178.60	3,539.55	-144.19	40.13	144.37	10.87	10.63	3.75
3,602.00	42.50	180.80	3,562.14	-163.93	40.23	164.11	10.21	9.00	7.33
3,634.00	45.60	181.00	3,585.14	-186.17	39.87	186.35	9.70	9.69	0.63
3,666.00	49.50	180.80	3,606.73	-209.78	39.51	209.95	12.20	12.19	-0.63
3,698.00	53.20	181.00	3,626.71	-234.76	39.11	234.94	11.57	11.56	0.63
3,729.00	54.70	180.70	3,644.96	-259.82	38.74	259.99	4.90	4.84	-0.97
3,761.00	55.00	180.60	3,663.38	-285.98	38.44	286.16	0.97	0.94	-0.31
3,792.00	55.90	180.80	3,680.96	-311.51	38.13	311.68	2.95	2.90	0.65
3,823.00	58.40	180.60	3,697.77	-337.55	37.81	337.72	8.08	8.06	-0.65
3,855.00	61.40	180.70	3,713.82	-365.23	37.50	365.40	9.38	9.38	0.31
3,886.00	64.70	180.90	3,727.87	-392.86	37.11	393.02	10.66	10.65	0.65
3,917.00	68.10	180.50	3,740.28	-421.26	36.77	421.42	11.03	10.97	-1.29
3,948.00	72.00	180.20	3,750.85	-450.39	36.59	450.56	12.61	12.58	-0.97
3,980.00	74.70	180.30	3,760.02	-481.05	36.46	481.21	8.44	8.44	0.31
4,011.00	78.30	180.30	3,767.26	-511.19	36.30	511.35	11.61	11.61	0.00
4,120.00	86.30	180.70	3,781.85	-619.11	35.35	619.27	7.35	7.34	0.37
4,152.00	89.90	180.40	3,782.91	-651.09	35.05	651.24	11.29	11.25	-0.94
4,183.00	91.10	180.30	3,782.64	-682.08	34.86	682.24	3.88	3.87	-0.32
4,247.00	91.30	180.20	3,781.30	-746.07	34.58	746.22	0.35	0.31	-0.16
4,343.00	92.30	179.70	3,778.28	-842.02	34.66	842.17	1.16	1.04	-0.52





<b>Company:</b>	Unit Petroleum	<b>Local Co-ordinate Reference:</b>	Well Black Farms 30-1H
<b>Project:</b>	Reno County, Kansas [NAD 83]	<b>TVD Reference:</b>	20' KB @ 1781.00usft (UDI 303)
<b>Site:</b>	Section 30 T25S-R10W	<b>MD Reference:</b>	20' KB @ 1781.00usft (UDI 303)
<b>Well:</b>	Black Farms 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)
4,439.00	91.00	179.40	3,775.52	-937.98	35.42	938.13	1.39	-1.35	-0.31
4,535.00	89.70	180.00	3,774.93	-1,033.97	35.92	1,034.12	1.49	-1.35	0.63
4,630.00	90.20	179.30	3,775.01	-1,128.97	36.50	1,129.12	0.91	0.53	-0.74
4,726.00	91.00	179.30	3,774.01	-1,224.95	37.67	1,225.11	0.83	0.83	0.00
4,822.00	89.40	179.50	3,773.67	-1,320.95	38.68	1,321.11	1.68	-1.67	0.21
4,917.00	89.50	179.80	3,774.59	-1,415.94	39.26	1,416.10	0.33	0.11	0.32
5,012.00	89.90	180.00	3,775.08	-1,510.94	39.42	1,511.10	0.47	0.42	0.21
5,108.00	87.90	180.00	3,776.93	-1,606.91	39.42	1,607.08	2.08	-2.08	0.00
5,203.00	88.30	179.80	3,780.08	-1,701.86	39.59	1,702.03	0.47	0.42	-0.21
5,295.00	89.40	179.30	3,781.92	-1,793.84	40.31	1,794.01	1.31	1.20	-0.54
5,387.00	89.10	179.00	3,783.13	-1,885.82	41.67	1,885.99	0.46	-0.33	-0.33
5,480.00	90.70	179.10	3,783.29	-1,978.80	43.22	1,978.98	1.72	1.72	0.11
5,572.00	91.90	179.40	3,781.20	-2,070.77	44.42	2,070.95	1.34	1.30	0.33
5,664.00	90.30	180.90	3,779.44	-2,162.75	44.18	2,162.93	2.38	-1.74	1.63
5,757.00	88.80	181.20	3,780.17	-2,255.73	42.48	2,255.90	1.64	-1.61	0.32
5,848.00	89.30	180.80	3,781.68	-2,346.70	40.89	2,346.86	0.70	0.55	-0.44
5,941.00	89.30	180.50	3,782.81	-2,439.69	39.83	2,439.84	0.32	0.00	-0.32
6,033.00	89.60	181.00	3,783.69	-2,531.68	38.63	2,531.83	0.63	0.33	0.54
6,125.00	89.80	180.90	3,784.18	-2,623.66	37.10	2,623.80	0.24	0.22	-0.11
6,218.00	90.00	179.90	3,784.34	-2,716.66	36.45	2,716.80	1.10	0.22	-1.08
6,310.00	89.80	179.90	3,784.50	-2,808.66	36.61	2,808.80	0.22	-0.22	0.00
6,401.00	90.00	179.40	3,784.66	-2,899.66	37.17	2,899.79	0.59	0.22	-0.55
6,493.00	89.40	178.70	3,785.14	-2,991.64	38.70	2,991.79	1.00	-0.65	-0.76
6,586.00	90.30	178.60	3,785.38	-3,084.61	40.89	3,084.77	0.97	0.97	-0.11
6,678.00	90.30	178.00	3,784.90	-3,176.57	43.62	3,176.74	0.65	0.00	-0.65
6,770.00	91.00	177.90	3,783.86	-3,268.51	46.91	3,268.69	0.77	0.76	-0.11
6,862.00	91.70	178.10	3,781.69	-3,360.42	50.12	3,360.62	0.79	0.76	0.22
6,954.00	89.80	178.40	3,780.49	-3,452.37	52.93	3,452.57	2.09	-2.07	0.33
7,047.00	90.10	178.90	3,780.57	-3,545.34	55.12	3,545.56	0.63	0.32	0.54
7,139.00	90.70	178.80	3,779.92	-3,637.32	56.96	3,637.54	0.66	0.65	-0.11
7,231.00	90.30	178.30	3,779.12	-3,729.29	59.29	3,729.52	0.70	-0.43	-0.54
7,323.00	90.50	177.90	3,778.48	-3,821.23	62.34	3,821.48	0.49	0.22	-0.43
7,419.00	91.50	177.60	3,776.80	-3,917.14	66.11	3,917.41	1.09	1.04	-0.31
7,514.00	90.00	178.10	3,775.56	-4,012.07	69.67	4,012.34	1.66	-1.58	0.53
7,610.00	91.50	177.40	3,774.30	-4,107.98	73.44	4,108.27	1.72	1.56	-0.73
7,706.00	89.70	179.10	3,773.30	-4,203.92	76.37	4,204.23	2.58	-1.88	1.77
7,801.00	90.50	178.70	3,773.13	-4,298.90	78.20	4,299.22	0.94	0.84	-0.42
7,899.00	88.60	178.80	3,773.90	-4,396.87	80.33	4,397.20	1.94	-1.94	0.10
7,993.00	88.80	178.80	3,776.04	-4,490.83	82.30	4,491.16	0.21	0.21	0.00
8,088.00	89.40	178.60	3,777.53	-4,585.79	84.46	4,586.13	0.67	0.63	-0.21
8,186.00	89.80	178.60	3,778.21	-4,683.76	86.85	4,684.11	0.41	0.41	0.00
8,273.00	90.20	178.10	3,778.21	-4,770.72	89.36	4,771.08	0.74	0.46	-0.57

Last Inwell Survey



<b>Company:</b>	Unit Petroleum	<b>Local Co-ordinate Reference:</b>	Well Black Farms 30-1H
<b>Project:</b>	Reno County, Kansas [NAD 83]	<b>TVD Reference:</b>	20' KB @ 1781.00usft (UDI 303)
<b>Site:</b>	Section 30 T25S-R10W	<b>MD Reference:</b>	20' KB @ 1781.00usft (UDI 303)
<b>Well:</b>	Black Farms 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)	
8,300.35	90.20	178.10	3,778.12	-4,798.05	90.26	4,798.42	0.00	0.00	0.00	
<b>BF 30-1H PBHL</b>										
8,320.00	90.20	178.10	3,778.05	-4,817.70	90.91	4,818.06	0.00	0.00	0.00	
<b>Projection to TD</b>										

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
8,273.00	3,778.21	-4,770.72	89.36	Last Inwell Survey	
8,320.00	3,778.05	-4,817.70	90.91	Projection to TD	

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

# ALLIED OIL & GAS SERVICES, LLC 062631

Federal Tax I.D. # 20-8651475

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

SERVICE POINT: At Bend

DATE <u>1-2-14</u>	SEC. <u>30</u>	TWP. <u>24</u>	RANGE <u>10</u>	CALLED OUT <u>12:00 PM</u>	ON LOCATION <u>2:00 PM</u>	JOB START <u>4:30 PM</u>	JOB FINISH <u>6:00 PM</u>
LEASE <u>Block Farm</u>		WELL # <u>30-14</u>		LOCATION <u>Zenith 2E, 1S, 6/4NW</u>		COUNTY <u>Reno</u>	STATE <u>Ka</u>
OLD <input checked="" type="radio"/> NEW (Circle one)							

CONTRACTOR Unit OWNER Same  
TYPE OF JOB Line

<table border="0"> <tr><td>HOLE SIZE</td><td>T.D. <u>9320'</u></td></tr> <tr><td>CASING SIZE <u>4 1/2" &amp; 5 1/2"</u></td><td>DEPTH <u>9320'</u></td></tr> <tr><td>TUBING SIZE</td><td>DEPTH</td></tr> <tr><td>DRILL PIPE</td><td>DEPTH</td></tr> <tr><td>TOOL</td><td>DEPTH</td></tr> <tr><td>PRES. MAX <u>2100#</u></td><td>MINIMUM <u>1800#</u></td></tr> <tr><td>MEAS. LINE</td><td>SHOE JOINT <u>50.34'</u></td></tr> <tr><td colspan="2">CEMENT LEFT IN CSG. <u>50.34'</u></td></tr> <tr><td colspan="2">PERFS.</td></tr> <tr><td colspan="2">DISPLACEMENT <u>154.15</u></td></tr> </table>	HOLE SIZE	T.D. <u>9320'</u>	CASING SIZE <u>4 1/2" &amp; 5 1/2"</u>	DEPTH <u>9320'</u>	TUBING SIZE	DEPTH	DRILL PIPE	DEPTH	TOOL	DEPTH	PRES. MAX <u>2100#</u>	MINIMUM <u>1800#</u>	MEAS. LINE	SHOE JOINT <u>50.34'</u>	CEMENT LEFT IN CSG. <u>50.34'</u>		PERFS.		DISPLACEMENT <u>154.15</u>		<table border="0"> <tr><td>CEMENT</td><td></td></tr> <tr><td>AMOUNT ORDERED <u>510 lbs Class H</u></td><td></td></tr> <tr><td><u>0.270 S&amp;S, 0.1670 EL-160</u></td><td></td></tr> <tr><td><u>1000# DV-1100</u></td><td><u>50# Sugar</u></td></tr> <tr><td colspan="2">COMMON <u>Class H 510 @ 21.20</u></td><td><u>10,812.00</u></td></tr> <tr><td>POZMIX</td><td>@</td><td></td></tr> <tr><td>GEL</td><td>@</td><td></td></tr> <tr><td>CHLORIDE</td><td>@</td><td></td></tr> <tr><td>ASC</td><td>@</td><td></td></tr> <tr><td><u>EL-160 288#</u></td><td>@ <u>18.90</u></td><td><u>5443.20</u></td></tr> <tr><td><u>S&amp;S 96#</u></td><td>@ <u>17.55</u></td><td><u>1684.80</u></td></tr> <tr><td><u>Sugar 50#</u></td><td>@ <u>2.00</u></td><td><u>100.00</u></td></tr> <tr><td><u>DV-1100 1000#</u></td><td>@ <u>58.70</u></td><td><u>1408.80</u></td></tr> <tr><td colspan="3">HANDLING <u>520.31</u></td><td>@ <u>2.48</u></td><td><u>1290.37</u></td></tr> <tr><td colspan="3">MILEAGE <u>1208.09</u></td><td><u>2.60</u></td><td><u>3141.03</u></td></tr> <tr><td colspan="5" style="text-align: right;">TOTAL <u>\$23,880.20</u></td></tr> </table>	CEMENT		AMOUNT ORDERED <u>510 lbs Class H</u>		<u>0.270 S&amp;S, 0.1670 EL-160</u>		<u>1000# DV-1100</u>	<u>50# Sugar</u>	COMMON <u>Class H 510 @ 21.20</u>		<u>10,812.00</u>	POZMIX	@		GEL	@		CHLORIDE	@		ASC	@		<u>EL-160 288#</u>	@ <u>18.90</u>	<u>5443.20</u>	<u>S&amp;S 96#</u>	@ <u>17.55</u>	<u>1684.80</u>	<u>Sugar 50#</u>	@ <u>2.00</u>	<u>100.00</u>	<u>DV-1100 1000#</u>	@ <u>58.70</u>	<u>1408.80</u>	HANDLING <u>520.31</u>			@ <u>2.48</u>	<u>1290.37</u>	MILEAGE <u>1208.09</u>			<u>2.60</u>	<u>3141.03</u>	TOTAL <u>\$23,880.20</u>				
HOLE SIZE	T.D. <u>9320'</u>																																																																						
CASING SIZE <u>4 1/2" &amp; 5 1/2"</u>	DEPTH <u>9320'</u>																																																																						
TUBING SIZE	DEPTH																																																																						
DRILL PIPE	DEPTH																																																																						
TOOL	DEPTH																																																																						
PRES. MAX <u>2100#</u>	MINIMUM <u>1800#</u>																																																																						
MEAS. LINE	SHOE JOINT <u>50.34'</u>																																																																						
CEMENT LEFT IN CSG. <u>50.34'</u>																																																																							
PERFS.																																																																							
DISPLACEMENT <u>154.15</u>																																																																							
CEMENT																																																																							
AMOUNT ORDERED <u>510 lbs Class H</u>																																																																							
<u>0.270 S&amp;S, 0.1670 EL-160</u>																																																																							
<u>1000# DV-1100</u>	<u>50# Sugar</u>																																																																						
COMMON <u>Class H 510 @ 21.20</u>		<u>10,812.00</u>																																																																					
POZMIX	@																																																																						
GEL	@																																																																						
CHLORIDE	@																																																																						
ASC	@																																																																						
<u>EL-160 288#</u>	@ <u>18.90</u>	<u>5443.20</u>																																																																					
<u>S&amp;S 96#</u>	@ <u>17.55</u>	<u>1684.80</u>																																																																					
<u>Sugar 50#</u>	@ <u>2.00</u>	<u>100.00</u>																																																																					
<u>DV-1100 1000#</u>	@ <u>58.70</u>	<u>1408.80</u>																																																																					
HANDLING <u>520.31</u>			@ <u>2.48</u>	<u>1290.37</u>																																																																			
MILEAGE <u>1208.09</u>			<u>2.60</u>	<u>3141.03</u>																																																																			
TOTAL <u>\$23,880.20</u>																																																																							

PUMP TRUCK CEMENTER Tim Decker  
# 597 HELPER Kevin Eddy  
BULK TRUCK  
# 870-844 DRIVER Don Cooper  
BULK TRUCK  
# DRIVER

**REMARKS:**

Ran 4445' of 4 1/2" - 11.6" csg & 3874' of 5 1/2" 20" csg.  
Set bit 9320'. Big Annular Circulation.  
Pumped 20 bbls DV-1100, 5 bbls H2O. Mixed  
510 lbs Class H, 0.270 S&S, 0.1670 EL-160.  
Pumped 2 bbls Sugar H2O. Waxed line clean.  
Released plug. Displaced with H2O. Landed  
plug at 4400'. Released & float held.

**SERVICE**

DEPTH OF JOB <u>9320'</u>		
PUMP TRUCK CHARGE	<u>5898.75</u>	
EXTRA FOOTAGE	@	
MILEAGE <u>50</u>	@ <u>7.70</u>	<u>385.00</u>
MANIFOLD	@	
<u>Hard Rest</u>	@	<u>1/2c</u>
<u>LVM 50</u>	@ <u>4.40</u>	<u>220.00</u>
TOTAL <u>6503.75</u>		

CHARGE TO: Unit Petroleum  
STREET \_\_\_\_\_  
CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_  
T. Decker

**PLUG & FLOAT EQUIPMENT**

_____	@	_____
_____	@	_____
_____	@	_____
_____	@	_____
_____	@	_____
TOTAL _____		

To: Allied Oil & Gas Services, LLC.  
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

SALES TAX (If Any) \_\_\_\_\_  
TOTAL CHARGES \$ 30,383.95  
DISCOUNT \$ 12,153.58 IF PAID IN 30 DAYS  
\$ 18,230.37

PRINTED NAME Glen Monday  
SIGNATURE Glen Monday



# ALLIED OIL & GAS SERVICES, LLC 062629

Federal Tax I.D. # 20-8651475

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

SERVICE POINT: West Bend 14

DATE <u>12-28-13</u>	SEC. <u>30</u>	TWP. <u>24</u>	RANGE <u>10 W</u>	CALLED OUT <u>1:15 PM</u>	ON LOCATION <u>4:00 PM</u>	JOB START <u>6:30 PM</u>	JOB FINISH <u>7:30 PM</u>
LEASE <u>Booms</u>	WELL # <u>30-1-H</u>		LOCATION <u>Sylvia 2w, 1S, w/inter</u>		COUNTY <u>Kern</u>	STATE <u>Ka</u>	
OLD OR <u>NEW</u> (Circle one)							

CONTRACTOR Dixie Drilling #303  
 TYPE OF JOB Intermittent  
 HOLE SIZE \_\_\_\_\_ T.D. 4058'  
 CASING SIZE 7" DEPTH 4058'  
 TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 DRILL PIPE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_  
 PRES. MAX 750" MINIMUM 600"  
 MEAS. LINE \_\_\_\_\_ SHOE JOINT 2'  
 CEMENT LEFT IN CSG. 2' float shoe  
 PERFS. \_\_\_\_\_  
 DISPLACEMENT 155 1/2

OWNER Some  
 CEMENT AMOUNT ORDERED 1160 lbs. Class A  
5% bypassed, 10% salt  
 COMMON 1160 @ 17.90 20864.00  
 POZMIX @ \_\_\_\_\_  
 GEL @ \_\_\_\_\_  
 CHLORIDE @ \_\_\_\_\_  
 ASC @ \_\_\_\_\_  
Coyne 16 @ 37.60 601.60  
 @ \_\_\_\_\_  
 @ \_\_\_\_\_  
 @ \_\_\_\_\_  
 @ \_\_\_\_\_  
 @ \_\_\_\_\_  
 HANDLING 189.84 @ 2.48 470.80  
 MILEAGE 414.39 @ 2.60 1077.42  
 TOTAL \$ 5013.82

EQUIPMENT  
 PUMP TRUCK CEMENTER Tom Dickson  
 # 577 HELPER Kevin Edge  
 BULK TRUCK  
 # 579 DRIVER Don Cooper  
 BULK TRUCK  
 # \_\_\_\_\_ DRIVER Tom Tysman

REMARKS:  
Ran 4058' of 7" cas. Break circulation  
Pumped 10 bbls H<sub>2</sub>O. Mixed 1160 lbs  
Class A, 5% bypassed, 10% salt. Released  
plug. Replaced with H<sub>2</sub>O. Landed  
plug at 230'. Released a float. Hold.

SERVICE  
 DEPTH OF JOB 4058'  
 PUMP TRUCK CHARGE \_\_\_\_\_ 2765.75  
 EXTRA FOOTAGE @ \_\_\_\_\_  
 MILEAGE 50 @ 7.70 385.00  
 MANIFOLD @ \_\_\_\_\_  
Head Rent @ 275.00 275.00  
LVM 50 @ 4.40 220.00  
 TOTAL \$ 3645.75

CHARGE TO: Dixie Petroleum  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_  
AFE: 1316700 - Shadon  
5

PLUG & FLOAT EQUIPMENT  
7"  
Sumner float shoe @ 712.53 712.53  
2-Thread Locks @ 83.07 166.14  
Reuben Plug @ 99.45 99.45  
 @ \_\_\_\_\_  
 @ \_\_\_\_\_  
 TOTAL \$ 978.12

To: Allied Oil & Gas Services, LLC.  
 You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

SALES TAX (If Any) \_\_\_\_\_  
 TOTAL CHARGES \$ 9/037.69  
 DISCOUNT \$ 3248.57 IF PAID IN 30 DAYS  
\$ 5889.12

PRINTED NAME James M. Hill  
 SIGNATURE [Signature]

# ALLIED OIL & GAS SERVICES, LLC 062628

Federal Tax I.D. # 20-8651475

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

SERVICE POINT: Heart Bend K

DATE <u>12-23-13</u>	SEC. <u>30</u>	TWP. <u>24</u>	RANGE <u>10 W</u>	CALLED OUT <u>3:00 PM</u>	ON LOCATION <u>5:30 PM</u>	JOB START <u>10:00 PM</u>	JOB FINISH <u>11:20 PM</u>
LEASE <u>Black Farms</u>	WELL # <u>30-1-H</u>	LOCATION <u>Syvia 2 West, 1 South</u>			COUNTY <u>Rock</u>	STATE <u>K</u>	
OLD OR <u>NEW</u> (Circle one)				<u>Went into</u>			

CONTRACTOR Unit #303 OWNER Same

TYPE OF JOB Surface

HOLE SIZE _____	T.D. <u>1530'</u>	CEMENT	AMOUNT ORDERED <u>3000 lbs AND 220 Gyp sand</u>
CASING SIZE <u>9 5/8"</u>	DEPTH <u>1530'</u>	<u>220 NAMS 220 cc, 1/4 # Flow/wh</u>	<u>2800 lbs Class A, 220 cc, 1/4 # Flow/wh</u>
TUBING SIZE _____	DEPTH _____	COMMON <u>280</u>	@ <u>12.90</u> <u>\$5012.00</u>
DRILL PIPE _____	DEPTH _____	POZMIX _____	@ _____
TOOL _____	DEPTH _____	GEL _____	@ _____
PRES. MAX <u>700 #</u>	MINIMUM <u>600 #</u>	CHLORIDE <u>15</u>	@ <u>64.00</u> <u>\$960.00</u>
MEAS. LINE _____	SHOE JOINT <u>2'</u>	ASC _____	@ _____
CEMENT LEFT IN CSG. <u>2'</u>		<u>AMA</u>	@ <u>25.90</u> <u>\$7770.00</u>
PERFS. _____		<u>Flow Seal 145</u>	@ <u>32.92</u> <u>\$4771.40</u>
DISPLACEMENT <u>118.81 bbls</u>		<u>Sugar 212</u>	@ <u>2.00</u> <u>\$424.00</u>

EQUIPMENT		HANDLING <u>633.42</u>	@ <u>2.48</u> <u>\$1570.87</u>
PUMP TRUCK CEMENTER <u>Tom Neuman</u>	# <u>316</u>	MILEAGE <u>1422.09</u>	@ <u>2.10</u> <u>\$2986.29</u>
HELPER <u>Kevin Eddy</u>		TOTAL <u>\$19,864.94</u>	
BULK TRUCK			
# <u>544-198</u> DRIVER <u>Tom Tijerina</u>			
BULK TRUCK			
# <u>599</u> DRIVER <u>Don Cooper</u>			
	<u>Audy Fimple</u>		

REMARKS:  
Ran 1530' of 9 5/8" casing. Back circulation. Pumped 5 bbls H<sub>2</sub>O. Mixed 3000 lbs AND 220 Gyp sand, 220 NAMS, 220 cc, 1/4 # Flow/wh followed by 2800 lbs class A 220 cc, 1/4 # Flow/wh. Released plug. Displaced with H<sub>2</sub>O, landed plug at 700 #. Released float held. Cement did circulate. (5 bbls)

CHARGE TO: Unit Petroleum  
STREET \_\_\_\_\_  
CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

AFE 1316700 1 Rock

To: Allied Oil & Gas Services, LLC.  
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME X Kerry O Miller  
SIGNATURE X Kerry O Miller

SERVICE	
DEPTH OF JOB <u>1530'</u>	
PUMP TRUCK CHARGE	<u>\$2213.25</u>
EXTRA FOOTAGE _____	@ _____
MILEAGE <u>50</u>	@ <u>7.20</u> <u>\$360.00</u>
MANIFOLD _____	@ _____
<u>Heart Bend</u>	@ <u>275.00</u> <u>275.00</u>
<u>LUM 50</u>	@ <u>4.40</u> <u>220.00</u>

TOTAL \$3093.25

PLUG & FLOAT EQUIPMENT	
<u>Rubber Plug</u>	@ <u>184.86</u> <u>184.86</u>
<u>Steel Float Shoe</u>	@ <u>1213.29</u> <u>1213.29</u>
<u>J-Centralizer</u>	@ <u>87.25</u> <u>438.75</u>
<u>Thread Loc 2</u>	@ <u>83.07</u> <u>166.14</u>
<u>Barbet</u>	@ <u>594.36</u> <u>594.36</u>

TOTAL \$2597.40

SALES TAX (If Any) \_\_\_\_\_  
TOTAL CHARGES \$25,556.09  
DISCOUNT \$19720.29 IF PAID IN 30 DAYS  
\$15,835.80


# Mid-Continent Conductor, LLC

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

## CEMENTING REPORT

Operator: Unit Corporation
Well Name: Black Farms 30-1H
Legal Description: Reno Cnty, KS

Cement Casing Data	
Cementing Date	12-15-13
Size of Drill Bit (Inches)	28
Size of Casing (Inches O.D.)	16
Setting Depth of Casing (ft.) from ground level	140
Type of Cement	Common Cement
Sacks of Cement Used	144
Was cement circulated?	Yes
Job witnessed by: Ronnie Jackson	



Jeff M. Owen

Mid-Continent Conductor, LLC



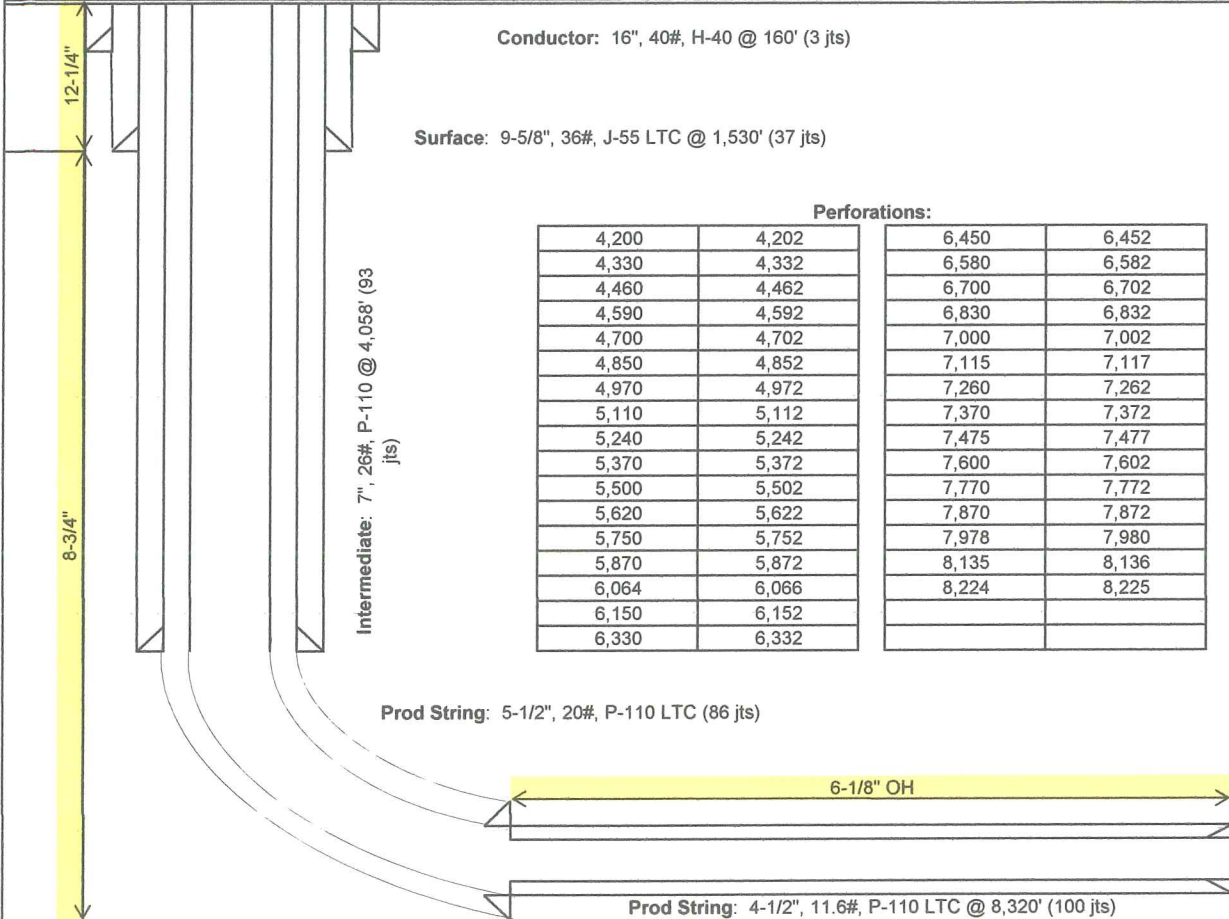
# Unit Petroleum Company

Date of Last Revision:  
**27-Mar-14**

**Well:** Black Farms 30 #1H  
**Location:** 30-24S-10W  
**County, State:** Reno County, KS  
**Surface Location:** 175' FNL & 600' FEL

**API No.:** 1515521676  
**Rig:** Unit Drilling #303  
**Engineer:** Brent Keys (918) 477-4510  
**Geology:** Rob Wilson (928) 477-5728

OH Size



### Perforations:

4,200	4,202	6,450	6,452
4,330	4,332	6,580	6,582
4,460	4,462	6,700	6,702
4,590	4,592	6,830	6,832
4,700	4,702	7,000	7,002
4,850	4,852	7,115	7,117
4,970	4,972	7,260	7,262
5,110	5,112	7,370	7,372
5,240	5,242	7,475	7,477
5,370	5,372	7,600	7,602
5,500	5,502	7,770	7,772
5,620	5,622	7,870	7,872
5,750	5,752	7,978	7,980
5,870	5,872	8,135	8,136
6,064	6,066	8,224	8,225
6,150	6,152		
6,330	6,332		