



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1254951  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

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

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

- New Well       Re-Entry       Workover
- Oil       WSW       SWD       SIOW
- Gas       D&A       ENHR       SIGW
- OG       GSW       Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic       Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

- Deepening       Re-perf.       Conv. to ENHR       Conv. to SWD
- Plug Back       Conv. to GSW       Conv. to Producer
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE       NW       SE       SW

GPS Location: Lat: \_\_\_\_\_, Long: \_\_\_\_\_  
(e.g. xx.xxxxx)      (e.g. -xxx.xxxxx)

Datum:  NAD27       NAD83       WGS84

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Vertical Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

Drilling Fluid Management Plan

*(Data must be collected from the Reserve Pit)*

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite:

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- Confidentiality Requested  
Date: \_\_\_\_\_
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_



1254951

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](mailto:kcc-well-logs@kcc.ks.gov). Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No  List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*  
 Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*  
 Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:      Size: \_\_\_\_\_ Set At: \_\_\_\_\_ Packer At: \_\_\_\_\_ Liner Run:  Yes  No

Date of First, Resumed Production, SWD or ENHR: \_\_\_\_\_ Producing Method:  
 Flowing  Pumping  Gas Lift  Other *(Explain)* \_\_\_\_\_

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

<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> _____ _____
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Form	ACO1 - Well Completion
Operator	Merit Energy Company, LLC
Well Name	Edna Jones 31-1
Doc ID	1254951

All Electric Logs Run

ARRAY COMPENSATED TRUE RESISTIVITY
BOREHOLE COMPENSATED SONIC ARRAY
MICROLOG
SPECTRAL DENSITY DUAL SPAED NEUTRON
REPEAT SECTION
QUAD COMBO LOG

Form	ACO1 - Well Completion
Operator	Merit Energy Company, LLC
Well Name	Edna Jones 31-1
Doc ID	1254951

Tops

Name	Top	Datum
HEEBNER	3895	
TORONTO	3916	
LANSING	3988	
MARMATON	4500	
PAWNEE	4586	
CHEROKEE	4637	
ATOKA	4829	
MORROW	4894	
CHESTER	4996	
CHESTER LIME	5004	
ST GENEVIEVE	5056	
ST LOUIS	5080	

# ALLIED OIL & GAS SERVICES, LLC 052812

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31  
RUSSELL, KANSAS 67665

SERVICE POINT:  
Liberal KS

DATE <u>01-23-15</u>	SEC. <u>31</u>	TWP. <u>25S</u>	RANGE <u>33 W.</u>	CALLED OUT	ON LOCATION	JOB START <u>9:00</u>	JOB FINISH <u>10:00 a.m.</u>
EDNA JONES LEASE	WELL # <u>31-1</u>	LOCATION <u>Garden City, S 10 Mi to</u>			COUNTY <u>Finney</u>	STATE <u>KS</u>	
OLD OR <u>NEW</u> (Circle one)		<u>parallel Rd, W 6.3 Mi, N-Inte.</u>					

CONTRACTOR Saxon #146 OWNER MERIT ENERGY

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D. 1690 ft CEMENT

CASING SIZE 8 5/8 2M # DEPTH 1690.43 ft AMOUNT ORDERED 350 sk AMDC 'C'

TUBING SIZE DEPTH 39.00, 1/4 F.S., 27. SA-S1

DRILL PIPE DEPTH 245 sk 'C', 39.00, 1/4 blk F.S.

TOOL DEPTH

PRES. MAX 1200 psi MINIMUM CCPP C 245 sk @ 24.40 5,978.00

MEAS. LINE SHOE JOINT 43.60 ft POZMIX @

CEMENT LEFT IN CSG. 2.77 BBLs GEL @

PERFS. CHLORIDE 2.2 sk @ 64.00 1,408.00

DISPLACEMENT 105 BBLs ASC @

EQUIPMENT AMDC 'C' 350 sk @ 31.00 10,850.00

SA-S1 66 Lb @ 17.55 1,158.30

Flo seale 150 lb @ 2.97 445.50

PUMP TRUCK CEMENTER Ruben Chavez

# 531-541 HELPER Ricardo Landa

BULK TRUCK

# 993-1066 DRIVER Jose Calderon

BULK TRUCK

# 994-642 DRIVER Ivan Carrillo

REMARKS:

TOTAL 19,839.50

Well Edna Jones 31-1  
AFE 35384  
GL 83001075  
Office Garden City  
Date 1/23/15

SERVICE

Mat-Handling 665.57 cft @ 2.48 - 1,651.36  
PUMP TRUCK CHARGE 2,213.75  
Dragage 1478.46 TM @ 2.60 3,844.00  
MILEAGE heavy 50 Mi @ 7.20 385.00  
MANIFOLD + head 1 @ 275.00 275.00  
Light Vehicle 50 Mi @ 4.40 220.00

TOTAL 8,589.11

CHARGE TO: MERIT ENERGY  
STREET \_\_\_\_\_  
CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

PLUG & FLOAT EQUIPMENT

N-R Top plug 1 @ 625.00  
N-R Float Collar 1 @ 1440.00  
stop collar 1 @ 69.00  
Guide Shoe 1 @ 460.00  
Centralizer 14 @ 75.00 1,050.00

TOTAL 3,644.00

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 32,072.91  
DISCOUNT \_\_\_\_\_ PAID IN 30 DAYS

PRINTED NAME \_\_\_\_\_  
SIGNATURE [Signature]

NET = 21,408.85

# ALLIED OIL & GAS SERVICES, LLC 052815

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31  
RUSSELL, KANSAS 67665

SERVICE POINT:  
Liberal, Ks

DATE <u>01-31-15</u>	SEC. <u>31</u>	TWP. <u>25S</u>	RANGE <u>33W</u>	CALLED OUT	ON LOCATION	JOB START <u>5:30</u>	JOB FINISH <u>6:30 P.m</u>
LEASE <u>EDNA JONES</u>	WELL # <u>31-1</u>	LOCATION <u>Garden City, S 10 Miles</u>			COUNTY <u>Finney</u>	STATE <u>Ks</u>	
OLD OR <u>(NEW)</u> (Circle one)		<u>to Parallel Rd, W 6.3M. N. into</u>					

CONTRACTOR Saxon # 146  
 TYPE OF JOB Long string  
 HOLE SIZE 7 7/8 T.D. 5330 ft  
 CASING SIZE 5 1/2 17# DEPTH 5333.45 ft  
 TUBING SIZE DEPTH  
 DRILL PIPE DEPTH  
 TOOL DEPTH  
 PRES. MAX 1500 PSI MINIMUM  
 MEAS. LINE SHOE JOINT 45.4 ft  
 CEMENT LEFT IN CSG. 1.0 BBLs  
 PERFS.  
 DISPLACEMENT 1.23 BBLs

OWNER MERIT ENERGY  
 CEMENT  
 AMOUNT ORDERED 280 sk 50/50 Pos-H,  
5% Gyp Seal, 10% Salt BWOC, 51% Sk Gilsonite,  
1/4 F.S., 25% Fd-160, 2% Dispersant, 2% Gel.  
 COMMON @  
 POZMIX @  
 GEL @  
 CHLORIDE @  
 ASC @  
 Super Flush 12 Bbls @ 25.00 300.00  
 \* Allied 50/50-H-Pos 280 @ 21.79 6,101.20  
 Gyp Seal 1176 Lb @ .38 4034.88  
 Salt 1645 Lb @ .68 1,118.60  
 Gilsonite 1400 Lb @ .98 1,372.00  
 FloSeal 70 Lb @ 2.97 207.90  
 Fd-160 118 Lb @ 18.90 2,230.20  
 CD-31 48 Lb @ 7.73 371.04  
 H/ i @

EQUIPMENT

PUMP TRUCK CEMENTER Ruben Chavez  
 # 531-541 HELPER R. Chavez Ricardo Lande  
 BULK TRUCK  
 # 774-744 DRIVER Jose Andres Zubia  
 BULK TRUCK  
 # DRIVER

REMARKS:

TOTAL 12,735.82

Well Edna Jones 31-1  
AFE 35384  
GL 83001075  
Office Garden City  
Date 1/30/15

SERVICE

Mat Handling 377.27 CF @ 2.48 - 935.62  
 PUMP TRUCK CHARGE 3,099.29  
Dragege 711.13 T.M @ 2.75 1,955.62  
 MILEAGE heavy 50 Mi @ 7.70 385.00  
MANIFOLD + head 1 @ 275.00 275.00  
Light Vehicle 50 Mi @ 4.40 220.00  
 @

TOTAL 6,870.49

CHARGE TO: Merit Energy  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

PLUG & FLOAT EQUIPMENT

Guide Shoe 1 @ 281.00  
S.S. Float Collar 1 @ 725.00  
Centralizer 20 @ 57.00 1,140.00  
Stop Collar 1 @ 49.00  
Tap rubber plug 1 @ 258.26

TOTAL 2,453.26

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 22,059.57

PRINTED NAME Early Zion  
 SIGNATURE Early Zion

DISCOUNT \_\_\_\_\_ PAID IN 30 DAYS

**NET = 12,573.95**



**PHOENIX  
TECHNOLOGY SERVICES**

March 11, 2015

Merit Energy Company  
Attention: Regulatory Department  
13727 Noel Rd., Suite 1200  
Dallas, TX 75240

Re: Merit Energy  
Edna Jones 31-1  
Finney County, KS  
API #15-055-22380  
Job No. 1512824

Dear Regulatory Department;

Phoenix Technology Services, Inc. has filed the survey certification, surveys, and lease plat for the above referenced well with the State of Kansas Oil Conservation Division – District 1 via certified mail. A copy of the filing is attached for your records.

Name of Surveyor	Drainhole Number	Surveyed Depths		Dates Performed		Type of Survey
		From	To	Start	End	
Jeremiah Underwood	31-1	1,717	4,533	01/24/15	01/27/15	MWD

Thank you for the opportunity to be of service. Please contact me if you have any questions or require additional information.

Best Regards,

*Bobbi Jo Jorgensen*

Bobbi Jo Jorgensen  
Operations Administrator

**Phoenix Technology Services  
SURVEY DATA CERTIFICATION**



PHOENIX JOB NUMBER 1512824

ENERGY COMPANY Merit Energy

WELL NAME Edna Jones 31-1

COUNTY & STATE Finney Co., Kansas

API WELL NUMBER 15-055-22380

PROPOSED DIRECTION 0.00

TIE-IN DATA						
MEASURED DEPTH	VERTICAL DEPTH	INCLIN	AZIMUTH	N-S COORD	E-W COORD	DATA SOURCE
.00 ft	.00 ft	0.00	0.00	.00 ft	.00 ft	Surface

FIRST SURVEY DATE	FIRST SURVEY DEPTH	INCLIN	AZIMUTH
24-Jan-15	1,717.00 ft	0.60	256.30

SURVEY INSTRUMENT TYPE
Phoenix MWD

LAST SURVEY DATE	LAST SURVEY DEPTH	INCLIN	AZIMUTH
27-Jan-15	4,533.00 ft	0.70	260.30

TO THE BEST OF MY KNOWLEDGE I CERTIFY THIS SURVEY DATA TO BE TRUE AND CORRECT.

PROJECTED TD SURVEY DATE	PROJECTED TD SURVEY DEPTH	INCLIN	AZIMUTH
27-Jan-15	4,602.00 ft	0.70	260.30

Jeremiah Underwood

PRINT YOUR NAME ABOVE

*Jeremiah Underwood*

SIGN YOUR NAME ABOVE

27-Jan-15

TODAY'S DATE

**MAGNETIC DECLINATION OR TOTAL GRID**

TOTAL CORRECTION USED	7.72
DECLINATION OR GRID	GRID

MWD SUPERVISOR 1

Jeremiah Underwood

DIRECTIONAL DRILLER 1

N/A

MWD SUPERVISOR 2

Dean Young

DIRECTIONAL DRILLER 2

N/A





MERIT ENERGY COMPANY

# **Merit Energy**

**Haskell County, Kansas (NAD27)**

**Edna Jones**

**31-1**

**Wellbore #1 Job #1512824**

**Survey: Phoenix MWD Surveys**

## **Standard Survey Report**

**29 January, 2015**



**PHOENIX**  
**TECHNOLOGY SERVICES**



<b>Company:</b>	Merit Energy	<b>Local Co-ordinate Reference:</b>	Well 31-1
<b>Project:</b>	Haskell County, Kansas (NAD27)	<b>TVD Reference:</b>	RKB @ 2959.73usft (Saxon 146)
<b>Site:</b>	Edna Jones	<b>MD Reference:</b>	RKB @ 2959.73usft (Saxon 146)
<b>Well:</b>	31-1	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	Wellbore #1 Job #1512824	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Surveys (Saxon 146)	<b>Database:</b>	Compass 5000 GCR

<b>Project</b>	Haskell County, Kansas (NAD27)		
<b>Map System:</b>	US State Plane 1927 (Exact solution)	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	NAD 1927 (NADCON CONUS)		
<b>Map Zone:</b>	Kansas South 1502		

<b>Site</b>	Edna Jones				
<b>Site Position:</b>		<b>Northing:</b>	433,304.68 usft	<b>Latitude:</b>	37° 49' 49.17256 N
<b>From:</b>	Map	<b>Easting:</b>	1,281,005.38 usft	<b>Longitude:</b>	100° 59' 23.12568 W
<b>Position Uncertainty:</b>	0.00 usft	<b>Slot Radius:</b>	13-3/16 "	<b>Grid Convergence:</b>	-1.53 °

<b>Well</b>	31-1					
<b>Well Position</b>	+N/-S	0.00 usft	<b>Northing:</b>	433,304.68 usft	<b>Latitude:</b>	37° 49' 49.17256 N
	+E/-W	0.00 usft	<b>Easting:</b>	1,281,005.38 usft	<b>Longitude:</b>	100° 59' 23.12568 W
<b>Position Uncertainty</b>	0.00 usft		<b>Wellhead Elevation:</b>	0.00 usft	<b>Ground Level:</b>	2,944.73 usft

<b>Wellbore</b>	Wellbore #1 Job #1512824				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2015	1/22/2015	6.19	65.38	51,670

<b>Design</b>	Surveys (Saxon 146)				
<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	360.00

<b>Survey Program</b>	Date 1/29/2015				
<b>From (usft)</b>	<b>To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>	
1,717.00	4,602.00	Phoenix MWD Surveys (Wellbore #1 Job #	PHX+MWD+IGRF	PHX+MWD+IGRF v3:standard declination	

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	
1,717.00	0.60	256.30	1,716.97	-2.13	-8.73	-2.13	0.03	0.03	0.00	
<b>First Phoenix Survey</b>										
1,890.00	0.20	101.30	1,889.97	-2.40	-9.32	-2.40	0.45	-0.23	-89.60	
2,063.00	0.40	124.70	2,062.96	-2.81	-8.53	-2.81	0.13	0.12	13.53	
2,236.00	0.20	167.50	2,235.96	-3.44	-7.96	-3.44	0.17	-0.12	24.74	
2,409.00	0.10	265.80	2,408.96	-3.75	-8.05	-3.75	0.14	-0.06	56.82	
2,582.00	0.30	357.50	2,581.96	-3.31	-8.22	-3.31	0.18	0.12	53.01	
2,755.00	0.50	274.60	2,754.96	-2.80	-8.99	-2.80	0.32	0.12	-47.92	
2,928.00	0.70	294.20	2,927.95	-2.30	-10.71	-2.30	0.16	0.12	11.33	
3,101.00	0.30	288.50	3,100.94	-1.73	-12.10	-1.73	0.23	-0.23	-3.29	



MERIT ENERGY COMPANY

### Survey Report



<b>Company:</b>	Merit Energy	<b>Local Co-ordinate Reference:</b>	Well 31-1
<b>Project:</b>	Haskell County, Kansas (NAD27)	<b>TVD Reference:</b>	RKB @ 2959.73usft (Saxon 146)
<b>Site:</b>	Edna Jones	<b>MD Reference:</b>	RKB @ 2959.73usft (Saxon 146)
<b>Well:</b>	31-1	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	Wellbore #1 Job #1512824	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Surveys (Saxon 146)	<b>Database:</b>	Compass 5000 GCR

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)
3,273.00	0.30	300.40	3,272.94	-1.35	-12.92	-1.35	0.04	0.00	6.92
3,447.00	0.30	285.00	3,446.94	-1.01	-13.75	-1.01	0.05	0.00	-8.85
3,620.00	0.50	293.60	3,619.93	-0.59	-14.88	-0.59	0.12	0.12	4.97
3,792.00	0.50	279.60	3,791.93	-0.16	-16.31	-0.16	0.07	0.00	-8.14
3,965.00	0.70	276.00	3,964.92	0.08	-18.10	0.08	0.12	0.12	-2.08
4,138.00	0.80	264.00	4,137.90	0.06	-20.35	0.06	0.11	0.06	-6.94
4,311.00	0.90	257.50	4,310.88	-0.36	-22.88	-0.36	0.08	0.06	-3.76
4,484.00	0.80	256.70	4,483.86	-0.93	-25.38	-0.93	0.06	-0.06	-0.46
4,533.00	0.70	260.30	4,532.86	-1.06	-26.01	-1.06	0.23	-0.20	7.35
<b>Final Phoenix Survey</b>									
4,602.00	0.70	260.30	4,601.85	-1.20	-26.84	-1.20	0.00	0.00	0.00
<b>Projection to TD</b>									

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N-S (usft)	+E-W (usft)	
1,717.00	1,716.97	-2.13	-8.73	First Phoenix Survey
4,533.00	4,532.86	-1.06	-26.01	Final Phoenix Survey
4,602.00	4,601.85	-1.20	-26.84	Projection to TD

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



1236426

For KCC Use ONLY

API # 15 - 15-055-22380-00-00

### IN ALL CASES PLOT THE INTENDED WELL ON THE PLAT BELOW

In all cases, please fully complete this side of the form. Include items 1 through 5 at the bottom of this page.

Operator: Merit Energy Company, LLC  
 Lease: Edna Jones  
 Well Number: 31-1  
 Field: Unnamed

Location of Well: County: Finney  
330 feet from  N /  S Line of Section  
931 feet from  E /  W Line of Section  
 Sec. 31 Twp. 25 S. R. 33  E  W

Number of Acres attributable to well: \_\_\_\_\_  
 QTR/QTR/QTR/QTR of acreage: W2 - SE - SW - SW

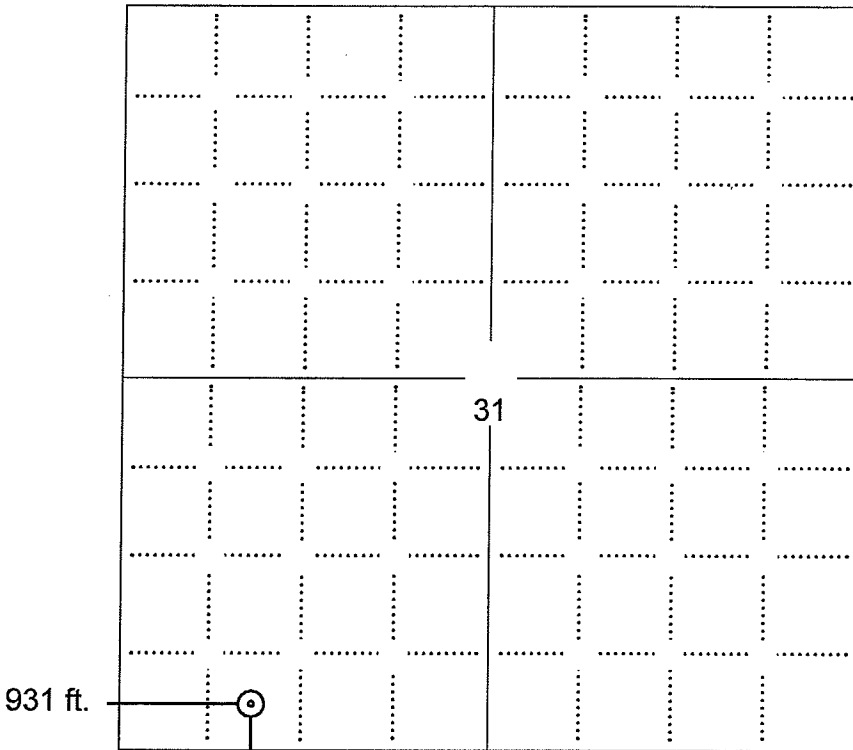
Is Section:  Regular or  Irregular

If Section is Irregular, locate well from nearest corner boundary.

Section corner used:  NE  NW  SE  SW

### PLAT

Show location of the well. Show footage to the nearest lease or unit boundary line. Show the predicted locations of lease roads, tank batteries, pipelines and electrical lines, as required by the Kansas Surface Owner Notice Act (House Bill 2032). You may attach a separate plat if desired.



NOTE: In all cases locate the spot of the proposed drilling location.

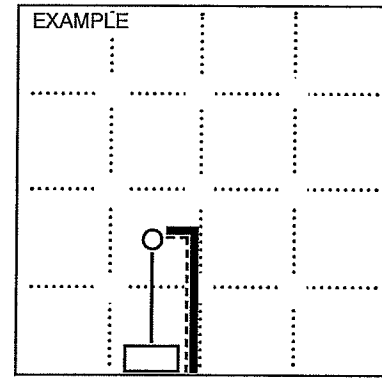
330 ft.

In plotting the proposed location of the well, you must show:

1. The manner in which you are using the depicted plat by identifying section lines, i.e. 1 section, 1 section with 8 surrounding sections, 4 sections, etc.
2. The distance of the proposed drilling location from the south / north and east / west outside section lines.
3. The distance to the nearest lease or unit boundary line (in footage).
4. If proposed location is located within a prorated or spaced field a certificate of acreage attribution plat must be attached: (CO-7 for oil wells; CG-8 for gas wells).
5. The predicted locations of lease roads, tank batteries, pipelines, and electrical lines.

### LEGEND

- Well Location
- Tank Battery Location
- Pipeline Location
- - - - Electric Line Location
- Lease Road Location



SEWARD CO. 3390' FEL