

Confidentiality Requested:

Yes  No

**KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION**

Form ACO-1

January 2018

**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

Gas  DH  EOR

OG  GSW

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 EOR  Conv. to SWD

Plug Back  Liner  Conv. to GSW  Conv. to Producer

Commingled Permit #: \_\_\_\_\_

Dual Completion Permit #: \_\_\_\_\_

SWD Permit #: \_\_\_\_\_

EOR Permit #: \_\_\_\_\_

GSW Permit #: \_\_\_\_\_

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: \_\_\_\_\_

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  Drill Stem Tests Received

Geologist Report / Mud Logs 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](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 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
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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				

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	Merit Energy Company, LLC
Well Name	NORTH PEBBLE 26-1
Doc ID	1336394

All Electric Logs Run

ANNULAR HOLE VOLUME LOG
ARRAY COMPENSATED TRUE RESISTIVITY LOG 1 LOG
ARRAY COMPENSATED TRUE RESISTIVITY LOG 2 LOG
ARRAY COMPENSATED TRUE RESISTIVITY LOG 5 LOG
ARRAY COMPENSATED TRUE RESISTIVITY LOG 5 LOG TVD
BOREHOLE COMPENSATED SONIC ARRAY LOG
DIRECTIONAL SURVEY
MICROLOG
QUAD COMBO LOG
QUAD COMBO LOG TVD
REPEAT SECTION
SPECTRAL DENSITY DUAL SPACED NEUTRON LOG
SPECTRAL DENSITY DUAL SPACED NEUTRON LOG TVD

Form	ACO1 - Well Completion
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Tops

Name	Top	Datum
HEEBNER	3850	.
TORONTO	3886	.
LANSING	3915	.
KANSAS CITY	4275	.
MARMATON	4435	.
PAWNEE	4515	.
CHEROKEE	4565	.
ATOKA	4697	.
MORROW	4736	.
CHESTER	4753	.
ST GENEVIEVE	4798	.
ST LOUIS	4841	.

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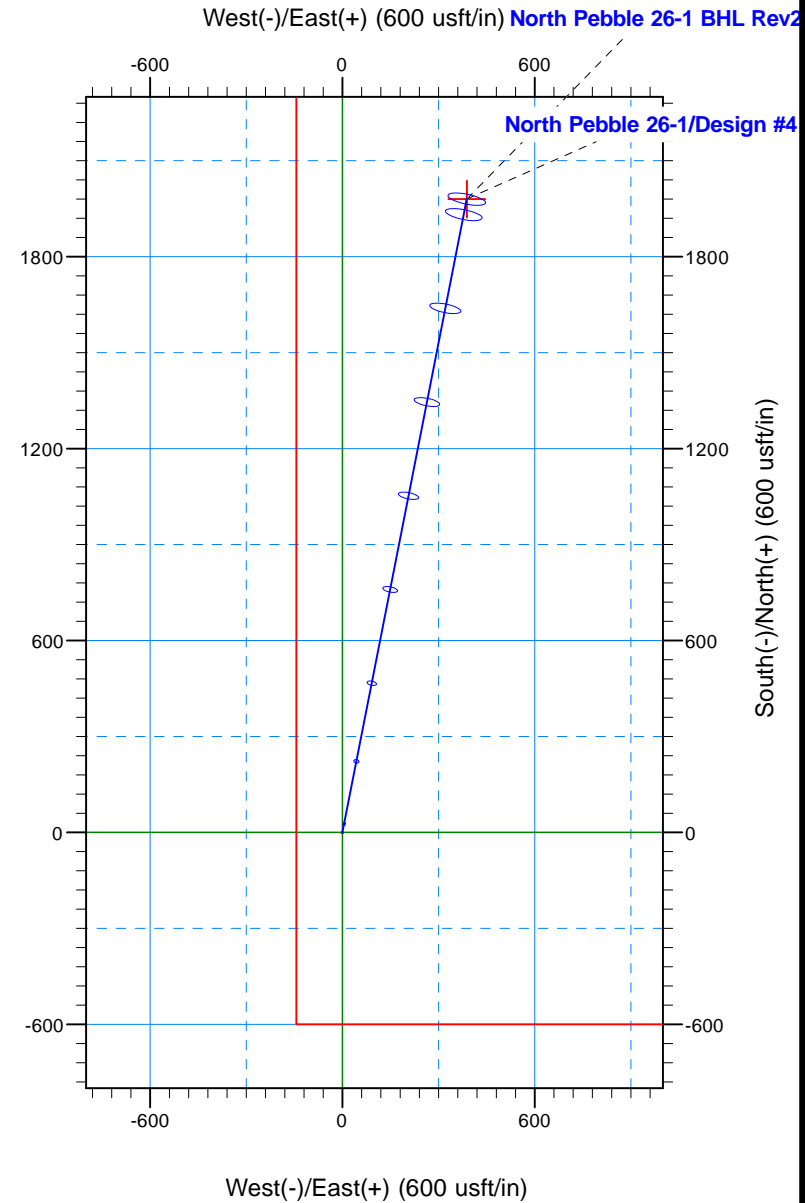
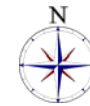
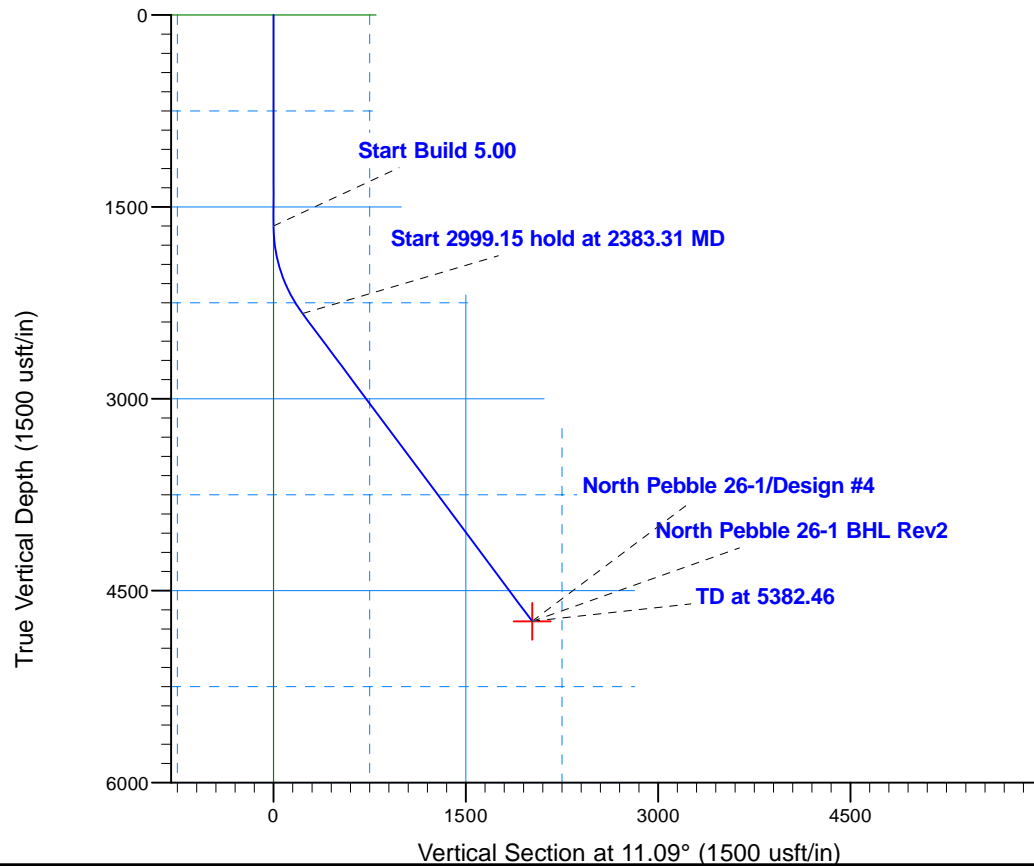
Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
6	4791-4797 MORROW	Frac- 200 bbls total load, 162 bbls total x fra, 38 bbls total l frac, 15039 lbs total 12/20 RIC, 386000 SCF total N2	4791-4797



### SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1650.00	0.00	0.00	1650.00	0.00	0.00	0.00	0.00	0.00	
2383.31	36.67	11.09	2334.28	222.50	43.60	5.00	11.09	226.74	
5382.46	36.67	11.09	4740.00	1980.00	388.00	0.00	0.00	2017.66	North Pebble 26-1 BHL Rev2



# Merit Energy

Finney County, KS  
Sec 26-T24S-R32W  
North Pebble 26-1

Wellbore #1

Plan: Design #4

## Sperry Drilling Services Proposal Report

03 June, 2015

Well Coordinates: 0.00 N, 0.00 E (32° 59' 03.05" N, 102° 45' 56.77" W)

Ground Level: 2,802.00 usft

Local Coordinate Origin:

Viewing Datum:

TVDs to System:

North Reference:

Unit System:

Centered on Well North Pebble 26-1

KB=20' @ 2820.00usft (UNK)

N

Grid

Clyde

Version: 5000.1 Build: 73

**HALLIBURTON**





Plan Report for North Pebble 26-1 - Design #4

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)	Toolface Azimuth (°)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,650.00	0.00	0.00	1,650.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Start Build 5.00</b>										
1,700.00	2.50	11.09	1,699.98	1.07	0.21	1.09	5.00	5.00	0.00	11.09
1,800.00	7.50	11.09	1,799.57	9.62	1.89	9.80	5.00	5.00	0.00	0.00
1,900.00	12.50	11.09	1,898.02	26.66	5.22	27.16	5.00	5.00	0.00	0.00
2,000.00	17.50	11.09	1,994.58	52.05	10.20	53.04	5.00	5.00	0.00	0.00
2,100.00	22.50	11.09	2,088.52	85.60	16.77	87.23	5.00	5.00	0.00	0.00
2,200.00	27.50	11.09	2,179.12	127.06	24.90	129.48	5.00	5.00	0.00	0.00
2,300.00	32.50	11.09	2,265.70	176.11	34.51	179.46	5.00	5.00	0.00	0.00
2,383.31	36.67	11.09	2,334.28	222.50	43.60	226.74	5.00	5.00	0.00	0.00
<b>Start 2999.15 hold at 2383.31 MD</b>										
2,400.00	36.67	11.09	2,347.66	232.28	45.52	236.70	0.00	0.00	0.00	0.00
2,500.00	36.67	11.09	2,427.88	290.88	57.00	296.42	0.00	0.00	0.00	0.00
2,600.00	36.67	11.09	2,508.09	349.48	68.48	356.13	0.00	0.00	0.00	0.00
2,700.00	36.67	11.09	2,588.30	408.08	79.97	415.85	0.00	0.00	0.00	0.00
2,800.00	36.67	11.09	2,668.52	466.68	91.45	475.56	0.00	0.00	0.00	0.00
2,900.00	36.67	11.09	2,748.73	525.28	102.93	535.27	0.00	0.00	0.00	0.00
3,000.00	36.67	11.09	2,828.94	583.88	114.42	594.99	0.00	0.00	0.00	0.00
3,100.00	36.67	11.09	2,909.16	642.48	125.90	654.70	0.00	0.00	0.00	0.00
3,200.00	36.67	11.09	2,989.37	701.08	137.38	714.42	0.00	0.00	0.00	0.00
3,300.00	36.67	11.09	3,069.58	759.68	148.87	774.13	0.00	0.00	0.00	0.00
3,400.00	36.67	11.09	3,149.80	818.28	160.35	833.85	0.00	0.00	0.00	0.00
3,500.00	36.67	11.09	3,230.01	876.88	171.83	893.56	0.00	0.00	0.00	0.00
3,600.00	36.67	11.09	3,310.22	935.48	183.32	953.27	0.00	0.00	0.00	0.00
3,700.00	36.67	11.09	3,390.44	994.08	194.80	1,012.99	0.00	0.00	0.00	0.00
3,800.00	36.67	11.09	3,470.65	1,052.68	206.28	1,072.70	0.00	0.00	0.00	0.00
3,900.00	36.67	11.09	3,550.86	1,111.28	217.77	1,132.42	0.00	0.00	0.00	0.00
4,000.00	36.67	11.09	3,631.08	1,169.88	229.25	1,192.13	0.00	0.00	0.00	0.00
4,100.00	36.67	11.09	3,711.29	1,228.48	240.73	1,251.84	0.00	0.00	0.00	0.00
4,200.00	36.67	11.09	3,791.51	1,287.08	252.22	1,311.56	0.00	0.00	0.00	0.00
4,300.00	36.67	11.09	3,871.72	1,345.68	263.70	1,371.27	0.00	0.00	0.00	0.00
4,400.00	36.67	11.09	3,951.93	1,404.28	275.18	1,430.99	0.00	0.00	0.00	0.00
4,500.00	36.67	11.09	4,032.15	1,462.88	286.67	1,490.70	0.00	0.00	0.00	0.00
4,600.00	36.67	11.09	4,112.36	1,521.48	298.15	1,550.42	0.00	0.00	0.00	0.00
4,700.00	36.67	11.09	4,192.57	1,580.08	309.63	1,610.13	0.00	0.00	0.00	0.00
4,800.00	36.67	11.09	4,272.79	1,638.68	321.11	1,669.84	0.00	0.00	0.00	0.00
4,900.00	36.67	11.09	4,353.00	1,697.28	332.60	1,729.56	0.00	0.00	0.00	0.00
5,000.00	36.67	11.09	4,433.21	1,755.88	344.08	1,789.27	0.00	0.00	0.00	0.00
5,100.00	36.67	11.09	4,513.43	1,814.48	355.56	1,848.99	0.00	0.00	0.00	0.00
5,200.00	36.67	11.09	4,593.64	1,873.08	367.05	1,908.70	0.00	0.00	0.00	0.00
5,300.00	36.67	11.09	4,673.85	1,931.68	378.53	1,968.42	0.00	0.00	0.00	0.00

**Plan Report for North Pebble 26-1 - Design #4**

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)	Toolface Azimuth (°)
5,382.46	36.67	11.09	4,740.00	1,980.00	388.00	2,017.66	0.00	0.00	0.00	0.00
TD at 5382.46										

**Plan Annotations**

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
1,650.00	1,650.00	0.00	0.00	Start Build 5.00
2,383.31	2,334.28	222.50	43.60	Start 2999.15 hold at 2383.31 MD
5,382.46	4,740.00	1,980.00	388.00	TD at 5382.46

**Vertical Section Information**

Angle Type	Target	Azimuth (°)	Origin Type	Origin +N/_S (usft)	Origin +E/-W (usft)	Start TVD (usft)
TD	No Target (Freehand)	11.09	Slot	0.00	0.00	0.00

**Survey tool program**

From (usft)	To (usft)	Survey/Plan	Survey Tool
0.00	5,382.46	Design #4	MWD+SC

**Targets associated with this wellbore**

Target Name	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Shape
North Pebble 26-1 BHL Rev2	4,740.00	1,980.00	388.00	Point

**Directional Difficulty Index**

Average Dogleg over Survey:	0.68 °/100usft	Maximum Dogleg over Survey:	5.00 °/100usft at 2,383.31 usft
Net Tortousity applicable to Plans:	0.68 °/100usft	Directional Difficulty Index:	5.138

**Audit Info**

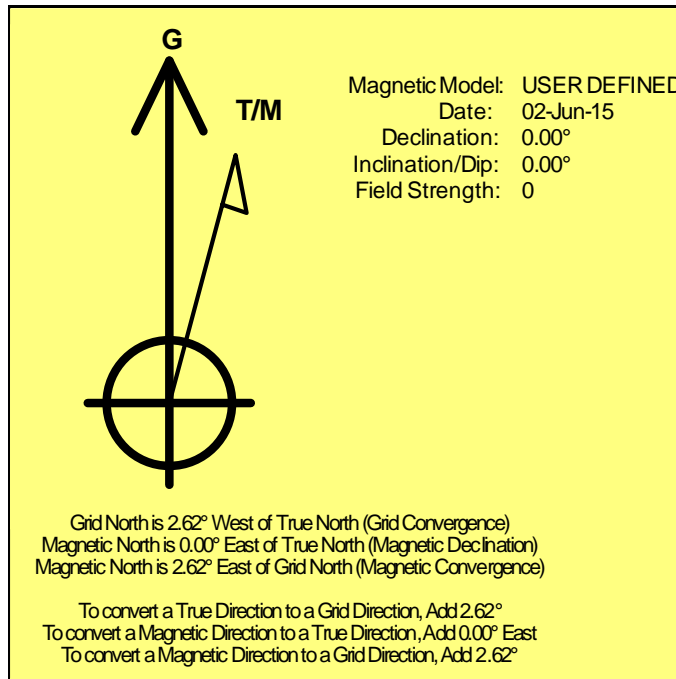
**North Reference Sheet for Sec 26-T24S-R32W - North Pebble 26-1 - Wellbore #1**

All data is in US Feet unless otherwise stated. Directions and Coordinates are relative to Grid North Reference.  
Vertical Depths are relative to KB=20' @ 2820.00usft (UNK). Northing and Easting are relative to North Pebble 26-1  
Coordinate System is US State Plane 1983, Kansas Southern Zone using datum North American Datum 1983, ellipsoid GRS 1980  
Projection method is Lambert Conformal Conic (2 parallel)  
Central Meridian is -98.50°, Longitude Origin:0° 0' 0.000 E°, Latitude Origin:37° 16' 0.000 N°  
False Easting: 1,312,333.33usft, False Northing: 1,312,333.33usft, Scale Reduction: 1.00355813

Grid Coordinates of Well: 0.00 usft N, 0.00 usft E  
Geographical Coordinates of Well: 32° 59' 03.05" N, 102° 45' 56.77" W  
Grid Convergence at Surface is: -2.62°

Based upon Minimum Curvature type calculations, at a Measured Depth of 5,382.46usft  
the Bottom Hole Displacement is 2,017.66usft in the Direction of 11.09° (Grid).

Magnetic Convergence at surface is: -2.62° ( 2 June 2015, , User Defined)





Field Ticket Number: **Lib1610200338** Field Ticket Date: **Thursday, October 20, 2016**

**Bill To:**  
MERIT ENERGY COMPANY  
Liberal, KS 67801  
P O Box 1293 / 1800 W 2nd St

**Job Name:** 01 Surface Conductor **FB**  
**Well Location:** Finney, KS  
**Well Name:** North Pebble  
**Well Number:** 26-1  
**Well Type:** New Well  
**Rig Number:** Duke Drilling # 9  
**Shipping Point:** Liberal, KS  
**Sales Office:** Mid Con  
**Set** @ 113'

PERSONEL		EQUIPMENT	
Lenny Basza	Alex C.	994-550	993-467
Cristian C.			

SERVICES - SERVICES - SERVICES							
Description	QTY	UOM	Unit Amt	Gross Amt	Disc %	Discount	Total Amount
PUMP,CASING CEMENT 0-500 FT	1.00	min. 4 hr	1,512.25	1512.25	529.29	65.0%	529.29
CMLP	1.00	per day	275.00	275.00	96.25	65.0%	96.25
PHDL	311.00	per cu. Ft.	2.48	771.28	0.87	65.0%	269.95
DRYG	694.00	ton-mile	2.75	1908.50	0.96	65.0%	667.98
MILV	50.00	per mile	4.40	220.00	1.54	65.0%	77.00
MIHV	50.00	per mile	7.70	385.00	2.70	65.0%	134.75

FLOAT EQUIPMENT -- FLOAT EQUIPMENT -- FLOAT EQUIPMENT							
TLK-13.375	2.00	each	85.00	170.00	46.75	45.0%	93.50

MATERIALS - MATERIALS - MATERIALS							
-	10.00	bbl	0.00	0.00	0.00	65.0%	0.00
CCAC	285.00	sack	17.90	5,101.50	6.27	65.0%	1,785.53
CA-100	804.00	pound	1.10	884.40	0.39	65.0%	309.54
CLC-CPF	143.00	pound	2.97	424.71	1.04	65.0%	148.65

ADDITIONAL ITEMS - ADDITIONAL ITEMS - ADDITIONAL ITEMS							
Additional hours, in excess of set hours		per hour	440.00	0.00	154.00	65.0%	0.00

	Gross	Discount	Final
Services Total	5,072.03	3,296.82	1,775.21
Equipment Total	170.00	76.50	93.50
Materials Total	6,410.61	4,186.80	2,243.71
Additional Items	0.00	0.00	0.00
<b>Final Total</b>	<b>11,852.64</b>	<b>7,540.22</b>	<b>4,112.42</b>

Allied Rep: \_\_\_\_\_  
Customer Agent: \_\_\_\_\_

This output does NOT include taxes. Applicable sales tax will be billed on the final invoice.  
Customer hereby acknowledges receipt of the materials and services described above and on the attached documents.  
I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the following page.

X \_\_\_\_\_  
Customer Signature

Field Ticket Total (USD): **\$4,112.42**

**GENERAL TERMS AND CONDITIONS**

DEFINITIONS: In these terms and conditions, "ALLIED" shall mean Allied Oil & Gas Services, LLC, and "CUSTOMER" shall refer to the party identified by that term on the front of this contract. As applicable, "JOB" relates to the services described on the front side of this contract, "MERCHANDISE" refers to the material described on the front of this contract and to any other materials, products, or supplies used, sold, or furnished under the requirements of this contract.

Well North Pebble 26-1  
AFE 44985  
GL 8300 1075  
Office Garden City  
Date 10/20/16



Cementing Services  
Field Ticket

Printed on 10/21/2016 at 1:27 AM

Field Ticket Number: LIB1610210045      Field Ticket Date: Friday, October 21, 2016

**Bill To:**  
MERIT ENERGY COMPANY  
Liberal, KS 67901  
P O Box 1293 / 1800 W 2nd St

**Job Name:** 01 Surface **set@1507 FB**  
**Well Location:** Finney, KS  
**Well Name:** North Pebble  
**Well Number:** 26-1  
**Well Type:** New Well  
**Rig Number:** Duke Drilling # 9  
**Shipping Point:** Liberal, KS  
**Sales Office:** Mid Con

PERSONEL		EQUIPMENT	
ALDO ESPINOZA	CRISTIAN CAMACHO	984-	956-841
GERARDO BURCIAGA	RAMON ESCARCEGA	903-501	788-553

SERVICES - SERVICES - SERVICES							
Description	QTY	UOM	Unit Amt	Gross Amt	Unit Cost	Discount	Net Amount
PUMP, CASING CEMENT 1001-2000 FT	1.00	min. 4 hr	2,213.75	2,213.75	774.81	65.0%	774.81
CMLP	1.00	per day	275.00	275.00	96.25	65.0%	96.25
PHDL	724.00	per cu. Ft.	2.48	1,795.52	0.87	65.0%	628.43
DRYG	1562.00	ton-mile	2.75	4,295.50	0.96	65.0%	1,503.43
MILV	50.00	per mile	4.40	220.00	1.54	65.0%	77.00
MIHV	50.00	per mile	7.70	385.00	2.70	65.0%	134.75

FLOAT EQUIPMENT -- FLOAT EQUIPMENT -- FLOAT EQUIPMENT							
GS-8.625	1.00	each	460.00	460.00	207.00	55.0%	207.00
SSFC-8.625	1.00	each	1,214.00	1,214.00	546.30	55.0%	546.30
GEN-8.625	15.00	each	75.00	1,125.00	33.75	55.0%	506.25
TRP - 8.625	1.00	each	131.00	131.00	58.95	55.0%	58.95

MATERIALS - MATERIALS - MATERIALS							
	10.00	bbl	0.00	0.00	0.00	65.0%	0.00
CB-AMDAL	425.00	sack	26.57	11,292.25	9.30	65.0%	3,952.29
CA-100	1199.00	pound	1.10	1,318.90	0.39	65.0%	461.62
CLC-CPF	213.00	pound	2.97	632.61	1.04	65.0%	221.41
CCAC	175.00	sack	17.90	3,132.50	6.27	65.0%	1,096.38
CA-100	329.00	pound	1.10	361.90	0.39	65.0%	126.67
CLC-CPF	88.00	pound	2.97	261.36	1.04	65.0%	81.48

ADDITIONAL ITEMS - ADDITIONAL ITEMS - ADDITIONAL ITEMS							
Additional hours, in excess of set hours		per hour	440.00	0.00	154.00	65.0%	0.00

	Gross	Discount	Final
Services Total	9,184.77	5,970.10	3,214.67
Equipment Total	2,930.00	1,611.50	1,318.50
Materials Total	16,999.52	11,049.69	5,949.83
Additional Items	0.00	0.00	0.00
<b>Final Total</b>	<b>29,114.29</b>	<b>18,631.29</b>	<b>10,483.00</b>

This output does NOT include taxes. Applicable sales tax will be billed on the final invoice. **North Pebble 26-1**  
Customer hereby acknowledges receipt of the materials and services described above and on the attached documents.  
I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the following page. **44985**

Customer Signature: [Signature]      **GL 83001075**      Field Ticket Total (USD): **\$10,483.00**

Office: Garden City  
Date: 10/21/16

Field Ticket Number: Lib1610251435      Field Ticket Date: Tuesday, October 25, 2016

**Billed To:**  
MERIT ENERGY COMPANY  
Liberal, KS 67801  
P O Box 1293 / 1900 W 2nd St

**Job Name:** 02 Production/Long String **Set @ 4997' PB**  
**Well Location:** Finney, KS  
**Well Name:** North Pebble  
**Well Number:** 26-1  
**Well Type:** New Well  
**Rig Number:** Duke Drilling # 9  
**Shipping Point:** Liberal, KS  
**Sales Office:** Mid Con

PERSONEL		EQUIPMENT	
Lenny B.	Alex A.	994-550	788-553
Cristian C.			

SERVICES - SERVICES - SERVICES							
Description	QTY	Unit	Unit Price	Gross Price	Unit Price	Discount	Net Amount
PUMP, CASING CEMENT 5001-6000 FT	1.00	min. 4 hr	3,099.25	3099.25	1,022.75	67.0%	1,022.75
CMLP	1.00	per day	275.00	275.00	90.75	67.0%	90.75
PHDL	351.00	per cu. FL	2.48	870.48	0.82	67.0%	287.26
DRYG	735.00	ton-milo	2.75	2021.25	0.91	67.0%	667.01
MILV	50.00	per mile	4.40	220.00	1.45	67.0%	72.60
MIHV	50.00	per mile	7.70	385.00	2.54	67.0%	127.05

FLOAT EQUIPMENT -- FLOAT EQUIPMENT -- FLOAT EQUIPMENT							
GS-5.5	1.00	each	281.00	281.00	126.45	55.0%	126.45
SSFC-5.5	1.00	each	725.00	725.00	326.25	55.0%	326.25
CEN-5.5	25.00	each	57.00	1,425.00	25.65	55.0%	641.25
TRP - 5.5	1.00	each	85.00	85.00	38.25	55.0%	38.25


MATERIALS - MATERIALS - MATERIALS							
CW-HVS	12.00	bbbl	58.70	704.40	19.37	67.0%	232.45
CB-ASA	255.00	sack	23.50	5,992.50	7.76	67.0%	1,977.53
CFL-210	120.00	pound	18.90	2,268.00	6.24	67.0%	748.44
CLC-KOL	1275.00	pound	0.98	1,249.50	0.32	67.0%	412.34
CLC-CPF	64.00	pound	2.97	190.08	0.98	67.0%	62.73

ADDITIONAL ITEMS - ADDITIONAL ITEMS - ADDITIONAL ITEMS							
Additional hours, in excess of set hours		per hour	440.00	0.00	145.20	67.0%	0.00

	Gross	Discount	Final
Services Total	6,870.98	4,603.55	2,267.42
Equipment Total	2,516.00	1,383.80	1,132.20
Materials Total	10,404.48	6,971.00	3,433.48
Additional Items	0.00	0.00	0.00
<b>Final Total</b>	<b>19,791.46</b>	<b>12,958.35</b>	<b>6,833.10</b>

Allied Rep: \_\_\_\_\_  
Customer Agent: \_\_\_\_\_

This output does NOT include taxes. Applicable sales tax will be billed on the final invoice.  
Customer hereby acknowledges receipt of the materials and services described above and on the attached documents.  
I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the following page.

X   
Customer Signature

Field Ticket Total (USD): \$6,833.10



# Job Daily Summary- State Report

Support Line: 972-628-1700 #1

Report Date:  
Report #

Well Name: North Pebble 26-1

Accounting ID	Original Spud Date	Operator MERIT ENERGY COMPANY	SAP API Number 1505522418	Lease	Unit Name
Working Interest 1.0000	Original KB Elevation (ft)	SAP Latitude	SAP Longitude	Total Depth	KB Adjustment (ft)
Field Name WILDCAT (KANSAS)	County FINNEY	State/Province KANSAS	Field Office GARDEN CITY	Accounting Group Garden City	Producing Status

Job Category Drilling	Primary Job Type Drilling and Completion	Job Start Date 10/19/2016	Job End Date
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**Daily Operations**

Report Start Date 10/18/2016	Primary Activity	Last Mod By jcarter
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Operations Summary

Report Start Date 10/19/2016	Primary Activity MIRU. Spud. Drill, run csg, and cmt conductor hole. Drill surface hole.	Last Mod By jcarter
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Operations Summary  
RDMO from Lottie 12-3 and MIRU on North Pebble 26-1  
Pump water and mix spud mud  
Drill rat-hole and mouse-hole

Spud well @24:00 on 10/20/16

Conductor Hole BHA:  
17-1/2" Milled-tooth bit  
Saber sub  
6-1/4" - DCs to surface

Drill conductor hole down to 118'  
CTCH - 15 mins  
TOOH/F running csg  
RU csg tools

RIH/w 3 jts of 13-3/8", 48#, J-55, STC conductor csg to set depth of 113'

RU Allied cement  
Cement conductor casing

Conductor string Cement: (Spacer) 10 bbls FW; (Tail) 285 sxs, 15.20 #/gal, 1.28 cf/sk Class A common 3% Calcium Chloride; 1/2 lb/sk Flo-Seal; w/ 100% excess; Displaced w/ 14.6 bbls FW  
Plug down att 03:30 on 10/20/16. Shut in casing with 40 psi on it.  
20 bbls of cement returns to surface

RD Allied cement  
Jet cellar, cut casing, and clean the pits  
Make up surface hole BHA

Surface hole BHA:  
12-1/4" FX56M Bit  
6-1/4"Bit collar/float  
12" Stab  
17 - 6-1/4" DCs  
4-1/2" DP to surface

Drill out 20' of cement shoe in conductor csg.  
Drill actual to 1576'  
CTCH - 45 mins  
TOOH/F running surface csg  
RU Wyoming csg  
Start RIH/w surface csg



MERIT ENERGY COMPANY

# Job Daily Summary- State Report

Support Line: 972-628-1700 #1

Report Date:  
Report #

Well Name: North Pebble 26-1

Accounting ID	Original Spud Date	Operator MERIT ENERGY COMPANY	SAP API Number 1505522418	Lease	Unit Name
Working Interest 1.0000	Original KB Elevation (ft)	SAP Latitude	SAP Longitude	Total Depth	KB Adjustment (ft)
Field Name WILDCAT (KANSAS)	County FINNEY	State/Province KANSAS	Field Office GARDEN CITY	Accounting Group Garden City	Producing Status

## Daily Operations

Report Start Date 10/20/2016	Primary Activity RIH/w surface csg and cement. NU BOP. TIH/w production BHA. Run gyro. TOOH. Lay down tools	Last Mod By jcarter
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Operations Summary  
RIH w/ 37 jts of 8-5/8", 48 #, J-55, LTC casing to a set depth of 1567'

RD Wyoming Casing and RU Allied Cement

Cement surface casing with: "Surface string Cement: (Spacer) 20bbbls FW; (Lead): 425 sx, 12.1 #/gal, 2.55 cf/sk Class A 2% Gypseal, 2% NAMS, 2% NaCl, 4% gel 3% CaCl; 1/2 #/sk Flo-Seal, w/110% excess 2.41 cu ft/sk followed by (Tail): 175sx Class A Common 15.2 #/gal, 1.27 cf/sk with 3% CaCl; .25 #1/2sk Flo-seal w/0% excess.

Wiper plug bumped @00:45 on 10/21/16 @480 psi  
97 bbls of cement returns to surface  
Pressure tested csg to 1500 psi for 15 mins

RD Allied and NU wellhead and BOP  
TIH/w production BHA

Production BHA:  
7-7/8" MM55M w/ 5-14's jets  
6-1/2" - FS 100 0.277 rev/gal Bico Mud Motor  
6-1/2" - Teledrift ProShot Tool  
7.5" - Roller Reamer  
17 - 6-1/4" DCs  
4-1/2" - DP to surface

Drill actual 1576 to 1698  
Well deviated to 4.5 deg inclination  
Run gyro due to deviated hole - catch gyro in 50' increments until 1628'  
TOOH/w production BHA  
Begin laying down production BHA tools





## Well Name: North Pebble 26-1

Accounting ID	Original Spud Date	Operator MERIT ENERGY COMPANY	SAP API Number 1505522418	Lease	Unit Name
Working Interest 1.0000	Original KB Elevation (ft)	SAP Latitude	SAP Longitude	Total Depth	KB Adjustment (ft)
Field Name WILDCAT (KANSAS)	County FINNEY	State/Province KANSAS	Field Office GARDEN CITY	Accounting Group Garden City	Producing Status

## Daily Operations

Report Start Date 10/21/2016	Primary Activity RIH/w new BHA. Slide and rotate to 1837'. TOOH to check Teledrift tool. TIH, slide and rotate.	Last Mod By jcarter
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## Operations Summary

RU directional tools and BHA.

## Production BHA:

7-7/8" MM65D w/ 6-14s jets  
 6-1/2" SSS-100 0.290 rev/gal Bico Mud Motor w/ 1.83 deg. bend  
 6-1/2" NM Pony  
 6-1/2" UBHO - Teledrift ProPulse  
 6-1/2" NMDC (short 15')  
 6-1/2" NMDC  
 11 - 6-1/2" DCs  
 6-1/2" ST. Hammer (jars)  
 6 - 6-1/2" DCs  
 4-1/2" DP to surface

## TIH and ream

Slide and rotate, drill down to 1837'  
 TOOH/F checking Teledrift ProPulse tool  
 Swap out ProPulse  
 TIH/w same BHA.  
 Slide and rotate, drill to 2502'  
 Displace at 2502'  
 Slide and rotate, drill to actual 2882'

Report Start Date 10/22/2016	Primary Activity Slide and rotate. Bit trip. Continue rotate drilling.	Last Mod By jcarter
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## Operations Summary

Slide and rotate to MD of 4165'  
 CTCH - 30 mins  
 TOOH/F Bit Trip  
 Bit looked to be in decent shape - balled up  
 Swap out bit - switch to 7-7/8" MM55M w/ 5 - 14s jets  
 TIH/w same BHA (new bit)  
 Drill to MD of 4250'

Report Start Date 10/23/2016	Primary Activity Drill to TD of 5003'. CTCH. Short wiper trip. CTCH. TOOH/F logs. Begin running logs.	Last Mod By jcarter
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## Operations Summary

Drill to actual TD of 5003' (MD)  
 CTCH - 1 hr  
 Run short wiper trip - pulling 20 stands  
 CTCH - 1 hour 15 mins  
 TOOH/F logs  
 Lay down tools  
 RU loggers  
 Begin running quad-combo OH logs w/ survey tool as well



# Job Daily Summary- State Report

Support Line: 972-628-1700 #1

Report Date:  
Report #

Well Name: North Pebble 26-1

Accounting ID	Original Spud Date	Operator MERIT ENERGY COMPANY	SAP API Number 1505522418	Lease	Unit Name
Working Interest 1.0000	Original KB Elevation (ft)	SAP Latitude	SAP Longitude	Total Depth	KB Adjustment (ft)
Field Name WILDCAT (KANSAS)	County FINNEY	State/Province KANSAS	Field Office GARDEN CITY	Accounting Group Garden City	Producing Status

### Daily Operations

Report Start Date 10/24/2016	Primary Activity Finish running logs. Run csg and cement.	Last Mod By jcarter
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Operations Summary  
 Finish running quad combo OH logs and survey.  
 Lay down logging tools and RD loggers.  
 TIH and break circulation half-way down.  
 CTCH - 1 hour.  
 TOOH laying down DP and DCs one joint at a time.  
 RU Wyoming Casing.  
 Run 118 jts of 5-1/2", 17 #, J-55, LTC casing to set depth of 4997'. PBTD: 4952'.  
 CTCH -30 mins

Run production cement:  
 "Production string Cement: (Spacer) 5bbls FW, 12bbls Super Flush & 5bbls of FW followed by (Single Slurry): Class A, 205 sxs, 10% salt, 6% gypseal 5#/sx  
 Gilsomite, 1/4#/sx Flo-Seal: Slurry wt: 13.6 ppg; yield:1.9 cf/sk. 30% Excess  
 " 50 sxs for RH/MH

Plug bumped at 13:30 @1100 psi on 10/25/2016  
 Pressure tested csg to 2500psi for 5 mins

Jet/clean cellarand pits. ND and set slips.  
 RD. Rig release on @20:00 on 10/25/2016

Report Start Date 10/28/2016	Primary Activity MIRU Complete the Well	Last Mod By maragon
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Operations Summary  
 Move Rawhdie Rig to loc. Filled up the JSA. Rig up the unit and SDFD

Report Start Date 10/31/2016	Primary Activity Swab down & Perforate	Last Mod By imedina
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Operations Summary  
 Crew Drove To Loc. Filled up the JSA. Rigged up 5000 Lbs flange with 2" 5000 lbs Valve/ Rigged up Chaosland Press truck and press up the casing to 4500 psi. good for 15 minutes. Rig down Press truck. Rigged up for casing swab. FI at Surface. swab the well down to 3900' rec.90 bbls of water. Rigged up pioneer Wire line and Perforate the well @ 4191-4197' on Morrow sand Formation. Rig down the wire line. start swabbing tag IFL @ 3750' Rec all water the first run. swab the well ,for 7 hrs rec. 62.5 bbls total. last Hr FI was @ 4850' rec. 7 bbls with 97 % oil. casing on vacuum after run. SWIFN &SD

Report Start Date 11/1/2016	Primary Activity swab test	Last Mod By maragon
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Operations Summary  
 Crew drove To Loc. Filled up the JSA. check press on the well. casing has lite blow. tag IFL @ 3000' Rec. 97 % oil the first run. swab the well for 10 hrs rec. 80 bbls w/ 97 % oil. last hr FI was @ 4850' Rec. 5 bbls with 97 % oil. casing on vacuum behind swab run. SWIFN &SD.

Report Start Date 11/2/2016	Primary Activity swab test	Last Mod By maragon
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Operations Summary  
 Crew Drove to Loc. Filled up the JSA. check press on the well. casing has 30 psi. blow the well down. Tag IFL @ 2900' rec. 100 % oil the first run. swab the well for 2 hrs rec. 36 bbls. last hr Flwas @ 4600' rec. 10 bbls w/ 97 % oil. ND Orbit valve. NU 5.5 orbit frac 5000 # valve. TIHW 5 jts & RBP.seted @ 165'. TOHW 5 jts &RH. Rigged up the chaosland press truck load the well with 4 bbls and press test Orbit valve to 4500psi test good for 15 minutes. bleed press off . TIHW 5 jts & RH. latch onto the RBP and release. pulled out well. go back to casing swab, tag FL@ 3700' rec. 97 % oil the first run. swab test the well for 1.5 rec. 21 bbls. last 1/2 Hr FI was@ 4850' rec. 3 bbls. w/ 97 % oil. casing on vacuum. Rigged up flow lines to flow the well after frac. SWIFN &SD



# Job Daily Summary- State Report

Support Line: 972-628-1700 #1

Report Date:  
Report #

Well Name: North Pebble 26-1

Accounting ID	Original Spud Date	Operator MERIT ENERGY COMPANY	SAP API Number 1505522418	Lease	Unit Name
Working Interest 1.0000	Original KB Elevation (ft)	SAP Latitude	SAP Longitude	Total Depth	KB Adjustment (ft)
Field Name WILDCAT (KANSAS)	County FINNEY	State/Province KANSAS	Field Office GARDEN CITY	Accounting Group Garden City	Producing Status

### Daily Operations

Report Start Date 11/3/2016	Primary Activity Frac the well	Last Mod By imedina
<p>Operations Summary</p> <p>. Gore frac Crew move in to loc. rigged up al pumping l flow lines. press test them to 4500 psi. Frac the well to Stimulated the Morrow Sand formation with:</p> <p>Total Load 200 Bls            Total X Frac 162 Bls            Total L frac 38 Bls            Total 12/20 R/C 15039 LBS            Total N2 386000 SCF            Ave Rate 17.6 BPM            Max rate 24 BPM            Ave Press 2053 psi            Max Press 2721 Psi            ISIP 2380 Psi            5 Min 2181 Psi            10 min 2062 Psi            15 min 1995 psi</p> <p>Leave the well Shut in Rig down Gore Frac Crew and move Out.</p>		
Report Start Date 11/4/2016	Primary Activity Flow test	Last Mod By maragon
<p>Operations Summary</p> <p>Flow Crew Drove to loc. Filled up the JSA. Check press on the well. casing has 1700 psi. open the well on 1/2 choke. flow the well back for 9 hrs . rec. 26 bbls. last Hr flowing press was 10 psi flowing just dry gas. not rec. Flow crew release by rig crew. Rigged up the 3.5 sand pump with Full Lub. tag sand @ 4927' rec. 6 gals of sand . Rigged up the casing swab. tag IFL @ 1050' rec. 25 % oil the first run. swab the well for 10 hrs. rec. 135 bbls. last hr fl was @ 4675; rec. 6 bbls with 95 % oil. casing on vacuum. Not sand. SWIFN &amp;SD.</p>		
Report Start Date 11/5/2016	Primary Activity swab test	Last Mod By maragon
<p>Operations Summary</p> <p>Crew Drove to loc. Filled up the JSA. check press on the well. casing has 120 psi. blow the well down. tag IFL @ 2960 rec. 97 % oil the first run. swab the well for 10 hrs. rec. 88 bbls. last Hr Fl was @ 4700' rec. 5 bbls with 62 % oil. not sand.casing on vacuum.</p>		
Report Start Date 11/7/2016	Primary Activity swab test	Last Mod By maragon
<p>Operations Summary</p> <p>crew Drove to loc. Filled up the JSA. check press on the well. casing has 185 psi. blow the well down. tag IFL @ 2550' rec. 95 % oil the first run. swab the well for 8 hrs rec. 83 bbls. last hr. Fl was @ 4700' rec. 5 bbls with 68 % oil. not sand casing on vacuum. lay down the swab tools. Run the 3.5" sand pump. tag sand @ 2932' rec. 4 gals. clean out 4935'; lay down the sand pump ND frac Orbit valve. NU BOP. Prepared for run tubing. SWIFN &amp;SD.</p>		
Report Start Date 11/8/2016	Primary Activity	Last Mod By maragon
<p>Operations Summary</p> <p>Crew Drove to loc. Filled up the JSA. casing has 110 psi. blow the well down. Prepared to run tbg. TIHW OE MA w/ Bar collar. 1 jts of tail pipe @ 4889' 3' Perf Sub @ 4856' SN @ 4853' 3 jts 2 7/8 TAC @ 4755' 153 jts 2 7/8. ND BOP.set the TAC with 15,000 lbs over string weigh. get the well flange up and pack off. Prepared for run rods. TIHW 6' GA 2.5 x 1.5 x 16 RWBC pump 10 x 1.5 KB w/ stblz. 84 5/8 rods 97 3/4 rods 8,2, 3/4 rods subs 22 x 1.25 PR 12 x 1.5 liner. seat the pump and load the tbg with Brady water truck with 12 bbls. long stroke the pump and press up tbg to 500 psi. held good. clamp polish rod on top of the stuffing box. 6" off bottom. Rig down clean loc. and SDFD.</p> <p>Rods Details            22 x 1.25 PR 12 x 1.5 liner            2,8, 3/4 rods subs            97 3/4 rods            84 5/8 rods            10 x 1.5 KB w/ stblz            2.5 x 1.5 x 16 RWBC            6' GA</p> <p>Tubing details            153 jts 2 7/8            TAC @ 4755'            3 jts 2 7/8            SN @ 4853';            3' Perf Sub @ 4856'            1 jts tail pipe OE W/ bar collar@4889'</p> <p>Perf details            4791-4797 Morrow sand            TD @ 4952' 13' KB 17 # casing</p>		



## Well Name: North Pebble 26-1

Accounting ID	Original Spud Date	Operator MERIT ENERGY COMPANY	SAP API Number 1505522418	Lease	Unit Name
Working Interest 1.0000	Original KB Elevation (ft)	SAP Latitude	SAP Longitude	Total Depth	KB Adjustment (ft)
Field Name WILDCAT (KANSAS)	County FINNEY	State/Province KANSAS	Field Office GARDEN CITY	Accounting Group Garden City	Producing Status

## Daily Operations

Report Start Date 11/11/2016	Primary Activity Adjust rod-string	Last Mod By llau
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Operations Summary  
MIRU. Unhung well. Unseated pump and added 2' x 3/4" pony rod to string. Loaded tbg 2/ 14 bbls and long-stroked pump to pressure up to 300 psi. Good pump action and held pressure good. Hung well back on and well was pumping good on unit. RDMO.

## Rods Details

22 x 1.25 PR 12 x 1.5 liner  
2,8, 3/4 rods subs  
97 3/4 rods  
84 5/8 rods  
10 x 1.5 KB w/ stblz  
2.5 x 1.5 x 16 RWBC  
6' GA

## Tubing details

153 jts 2 7/8  
TAC @ 4755'  
3 jts 2 7/8  
SN @ 4853';  
3' Perf Sub @ 4856'  
1 jts tail pipe OE W/ bar collar@4889'

## Perf details

4791-4797 Morrow sand  
TD @ 4952' 13' KB 17 # casing

Report Start Date 11/17/2016	Primary Activity Unseat the pump & re-loaded	Last Mod By maragon
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Operations Summary  
Move Ricks well service Rig to Loc. Filled up the JSA. Rig up the unit. unhang the well. long stroke the pump . not pump. unseat the pump. tbg show a good. vacuum. let set hanging above the SN. and let the fluid fall and flush for 30 minutes. Reseat the pump and Rigged up Brady water truck. load the tbg with 2 bbls. unseat the pump. tubing stay full. lay down 1 rods and hook up the truck back to the tbg try to pump fluid.. tubing press up to 100 psi. work Rods up down and tbg went on vacuum. let it fall for 30 minutes. tbg show a good vacuum. all time. reseat the pump. load the tbg with 13 bbls of water 2 % kcl. long stroke the pump and press up tbg to 500 psi. held good. well pumping good. hang well on and leave the well pump overnight with Rig stay rig up. SDFD

Report Start Date 11/18/2016	Primary Activity RDMO	Last Mod By maragon
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Operations Summary  
Crew Drove To Loc. Filled up the JSA. well pumping okay. pump about 70 bbls of fluid overnight. Rig down clean Loc. and Move out, ( the well was hot oil day before after Rig crew Left) By Pumper Lead.

## Rods Details

22 x 1.25 PR 12 x 1.5 liner  
2,8, 3/4 rods subs  
97 3/4 rods  
84 5/8 rods  
10 x 1.5 KB w/ stblz  
2.5 x 1.5 x 16 RWBC  
6' GA

## Tubing details

153 jts 2 7/8  
TAC @ 4755'  
3 jts 2 7/8  
SN @ 4853';  
3' Perf Sub @ 4856'  
1 jts tail pipe OE W/ bar collar@4889'

## Perf details

4791-4797 Morrow sand  
TD @ 4952' 13' KB 17 # casing