

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. 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	TAIT B 6
Doc ID	1435218

All Electric Logs Run

ANNULAR HOLE VOLUME LOG 5 CASING
ARRAY COMPENSATED TRUE RESISTIVITY LOG 1
ARRAY COMPENSATED TRUE RESISTIVITY LOG 2
ARRAY COMPENSATED TRUE RESISTIVITY LOG 5
ARRAY RESISTIVITY SPECTRAL DENSITY DUAL SPACED NEUTRON BOREHOLE SONIC QUAD COMBO LOG
BOREHOLE COMPENSATED SONIC LOG
MICROLOG

Form	ACO1 - Well Completion
Operator	Merit Energy Company, LLC
Well Name	TAIT B 6
Doc ID	1435218

Tops

Name	Top	Datum
Stone Corral	1838	
Hutchinson Salt	2322	
Council Grove	2831	
Wabaunsee	3226	
Topeka	3564	
Heebner	3975	
Toronto	3993	
Lansing	4080	
Iola	4235	
Marmaton	4631	
Pawnee	4716	
Cherokee	4760	
Morrow	4989	
Chester	5064	
ST Genevieve	5159	

FIELD TICKET**Client** MERIT ENERGY COMPANY**Well** Tait B-6**Job Description** Conductor**Print Date** September 25, 2018**Field Ticket #** FT-11427-V3F4L40202-60592**Field Ticket #** FT-11427-V3F4L40202-60592 **Credit Approval #****Client** MERIT ENERGY COMPANY **Purchase Approval #**PO BOX 1293, LIBERAL, 67905-1293 **Invoice #****Field Rep** Edgar Rodriguez **Well** Tait B-6**Field Client Rep** Rodney Gonzales **Well API #** 15-055-22502**District** Liberal, KS **County** Finney**Job Type** Conductor **State/Province** KS**Job Depth (ft)** 121.00 **Field****Gas Used On Job** No **Lease**

FIELD TICKET

Client MERIT ENERGY COMPANY

Well Tait B-6

Job Description Conductor

Print Date September 25, 2018

Field Ticket # FT-11427-V3F4L40202-60592



MATERIALS

Product Code	Description	UOM	Quantity	List Price	Gross Amount	Disc (%)	Net Amount
L100112	ACCELERATOR, SALT, CHLORIDE, CALCIUM, A-7P, PELLETS	LB	508.0000	\$2.40	\$1,219.20	55.00	\$548.64
L488168	CEMENT, ASTM TYPE I	SK	180.0000	\$44.11	\$7,939.80	55.00	\$3,572.91
L100295	IntegraSeal CELLO	LB	90.0000	\$5.76	\$518.40	55.00	\$233.28
Product Material Subtotal:					\$9,677.40		\$4,354.83

SERVICES

Product Code	Description	UOM	Quantity	List Price	Gross Amount	Disc (%)	Net Amount
		TMI	0			0.00	0.00
S-100004	Cement Crew Mobilization Demobilization Fee	EA	1.00	\$10,880.00	\$10,880.000	91.00	\$979.200
S-100048	Cement pump charge, 0-1,000 feet/ 0-300 m	4/HR	1.00	\$3,072.00	\$3,072.000	91.00	\$276.480
S-100066	Cement pump charge, Additional Hours	HR	1.00	\$2,720.00	\$2,720.000	91.00	\$244.800
S-100072	Circulating Equipment	JOB	1.00	\$5,248.00	\$5,248.000	91.00	\$472.320
S-100001	Mileage - vehicle heavy weight	MI	50.00	\$18.96	\$948.000	91.00	\$85.320
S-100002	Mileage - vehicle light weight	MI	50.00	\$10.72	\$536.000	91.00	\$48.240
Service Subtotal:					\$23,404.00		\$2,106.36

FIELD TICKET

Client MERIT ENERGY COMPANY
Well Tait B-6
Job Description Conductor
Print Date September 25, 2018



Field Ticket # FT-11427-V3F4L40202 60592

FIELD ESTIMATES

TOTAL GROSS AMOUNT \$33,081.40
TOTAL % DISC 80.469 %
TOTAL NET AMOUNT \$6461.190

Arrive Location
Client Rep.

Well	Tait B-6
AFE	62135
GL	83001075
Office	Garden City
Date	9-25-18

Service Order

I authorize work to begin per service instructions in accordance with the terms and conditions printed on the following pages of this form and represent that I have authority to accept and sign this order.

Service receipt

I certify that the materials and services listed were received and all services performed in a workmanlike manner.

BJ REPRESENTATIVE

Edgar Rodriguez

CLIENT AUTHORIZED AGENT

Rodney Gonzales

Cementing Treatment



Start Date	9/25/2018	Field Ticket#	
End Date	9/25/2018	Well	Tait B-6
Client	MERIT ENERGY COMPANY	API#	15-055-22502
Client Field Rep.	Rodney Gonzales	Well Classification	Oil
Service Sup.	Edgar Rodriguez	County	Finney
District	Liberal, KS	State/Province	KS
Type of Job	Conductor	Formation	
Execution ID	EXC-11427-V3F4L402	Rig	Duke #9
Project ID	PRJ1011112		

WELL GEOMETRY

Type	ID (in)	OD (in)	Wt. (lb/ft)	MD (ft)	TVD (ft)	Excess(%)	Grade	Thread
Open Hole	17.50			126.00	126.00	100.00		
Casing	12.72	13.38	48.00	120.50	126.00			

Shoe Length (ft): 20

HARDWARE

Bottom Plug Used?	No	Tool Type	
Bottom Plug Provided By		Tool Depth (ft)	
Bottom Plug Size		Max Tubing Pressure - Rated (psi)	
Top Plug Used?	No	Max Tubing Pressure - Operated (psi)	
Top Plug Provided By		Max Casing Pressure - Rated (psi)	800.00
Top Plug Size		Max Casing Pressure - Operated (psi)	100.00
Centralizers Used	No	Pipe Movement	None
Centralizers Quantity		Job Pumped Through	No Manifold
Centralizers Type		Top Connection Thread	8RD
Landing Collar Depth (ft)	106	Top Connection Size	13.375

CIRCULATION PRIOR TO JOB

Well Circulated By	Rig	Solids Present at End of Circulation	No
Circulation Prior to Job	Yes	10 sec SGS	

Cementing Treatment



Circulation Time (min) 30.00 **10 min SGS**
Circulation Rate (bpm) 3.00 **30 min SGS**
Circulation Volume (bbls) 50.00 **Flare Prior to/during the Cement Job** No
Lost Circulation Prior to Cement Job No **Gas Present** No
Mud Density In (ppg) **Gas Units**
Mud Density Out (ppg)
PV Mud In
PV Mud Out
YP Mud In
YP Mud Out

TEMPERATURE

Ambient Temperature (°F) 65.00 **Slurry Cement Temperature (°F)** 70.00
Mix Water Temperature (°F) 70.00 **Flow Line Temperature (°F)**

BJ FLUID DETAILS

Fluid Type	Fluid Name	Density (ppg)	Yield (Cu Ft/sk)	H2O Req. (gals/sk)	Planned Top of Fluid (Ft)	Length (Ft)	Vol (sk)	Vol (Cu Ft)	Vol (bbls)
Tail Slurry	Tail Cement	15.6000	1.2078	5.23	0.00	126.00	180	193.0000	34.3000
Displacement Final	Displacement	8.3400			0.00			0.0000	16.6000

Fluid Type	Fluid Name	Component	Concentration	UOM
Tail Slurry	Tail Cement	CEMENT, ASTM TYPE I	100.0000	PCT
Tail Slurry	Tail Cement	ACCELERATOR, SALT, CHLORIDE, CALCIUM, A-7P, PELLETS	3.0000	BWOB
Tail Slurry	Tail Cement	IntegraSeal CELLO	0.5000	LBS/SK

TREATMENT SUMMARY

Time	Fluid	Rate (bpm)	Fluid Vol. (bbls)	Pipe Pressure (psi)	Annulus Pressure (psi)	Comments
	Tail Cement	0.00	34.30			
	Displacement	0.00	16.60			

Cementing Treatment



	Min	Max	Avg
Pressure (psi)	40.00	100.00	50.00
Rate (bpm)	3.50	4.00	4.00

DISPLACEMENT AND END OF JOB SUMMARY

Displaced By	BJ	Amount of Cement Returned/Reversed	5.00
Calculated Displacement Volume (bbls)	16.00	Method Used to Verify Returns	Visual
Actual Displacement Volume (bbls)	16.00	Amount of Spacer to Surface	0.00
Did Float Hold?	Yes	Pressure Left on Casing (psi)	0.00
Bump Plug	No	Amount Bled Back After Job	0.00
Bump Plug Pressure (psi)	0.00	Total Volume Pumped (bbls)	60.00
Were Returns Planned at Surface	Yes	Top Out Cement Spotted	No
Cement returns During Job	Full	Lost Circulation During Cement Job	No

CEMENT PLUG

Bottom of Cement Plug?	No	Wiper Balls Used?	No
Wiper Ball Quantity		Plug Catcher	No
Number of Plugs			

SQUEEZE

Injection Rate (bpm)	Fluid Density (ppg)
Injection Pressure (psi)	ISIP (psi)
Type of Squeeze	FSIP (psi)
Operators Max SQ Pressure (psi)	

COMMENTS

Treatment Report

JOB LOG ATTACHED

Job Summary

MERIT ENERGY COMPANY

FINNEY COUNTY, KANSAS (NAD27 - GRID)

SW SW SEC. 3 T25S R33W 6th P.M.

TAIT B-6

ORIGINAL WELLBORE

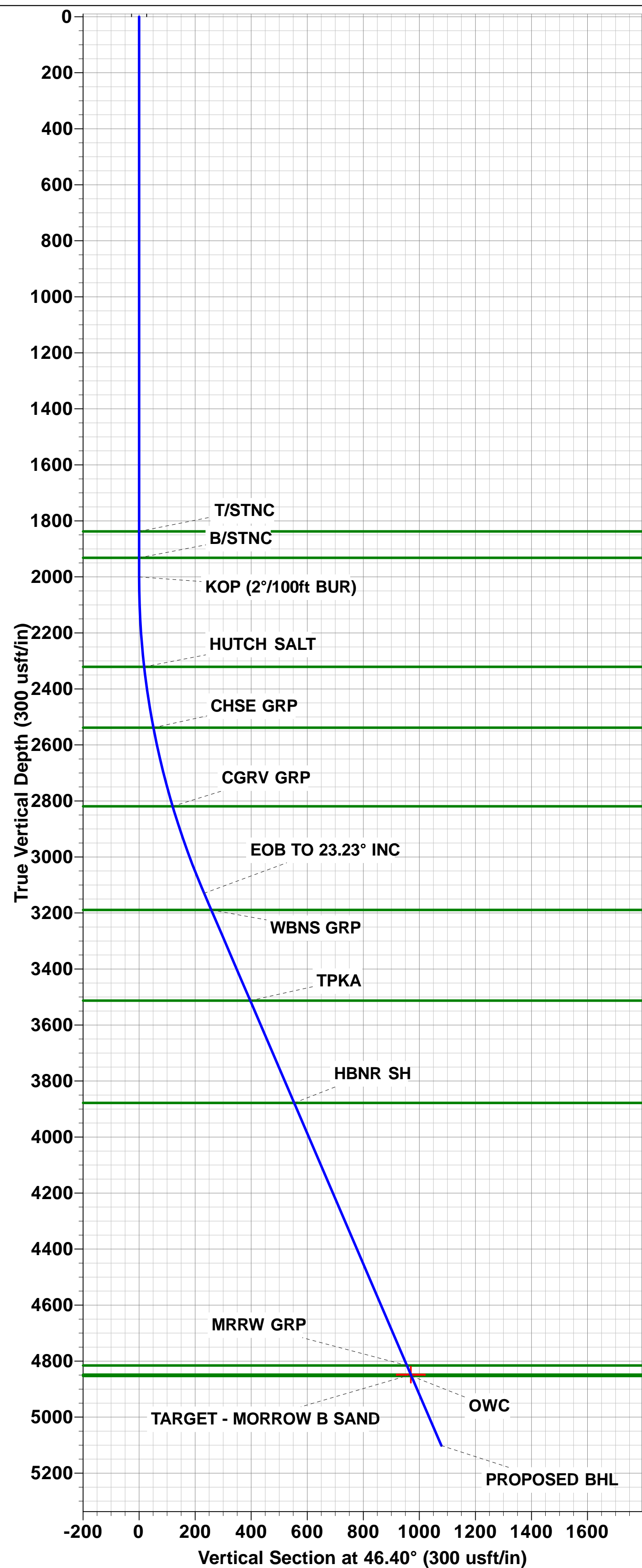
09 August, 2018

Plan: PROPOSAL #1





Project: FINNEY COUNTY, KANSAS (NAD27 - GRID)
 Site: SW SW SEC. 3 T25S R33W 6th P.M.
 Well: TAIT B-6
 Wellbore: ORIGINAL WELLBORE
 Design: PROPOSAL #1



PROJECT DETAILS: FINNEY COUNTY, KANSAS (NAD27 - GRID)

Geodetic System: US State Plane 1927 (Exact solution)
 Datum: NAD 1927 (NADCON CONUS)
 Ellipsoid: Clarke 1866
 Zone: Kansas South 1502
 Padsite: SW SW SEC. 3 T25S R33W 6th P.M.

WELL DETAILS: TAIT B-6

Ground Level: 2900.00

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	459396.66	1296837.95	37.903107	-100.937318

DESIGN TARGET DETAILS

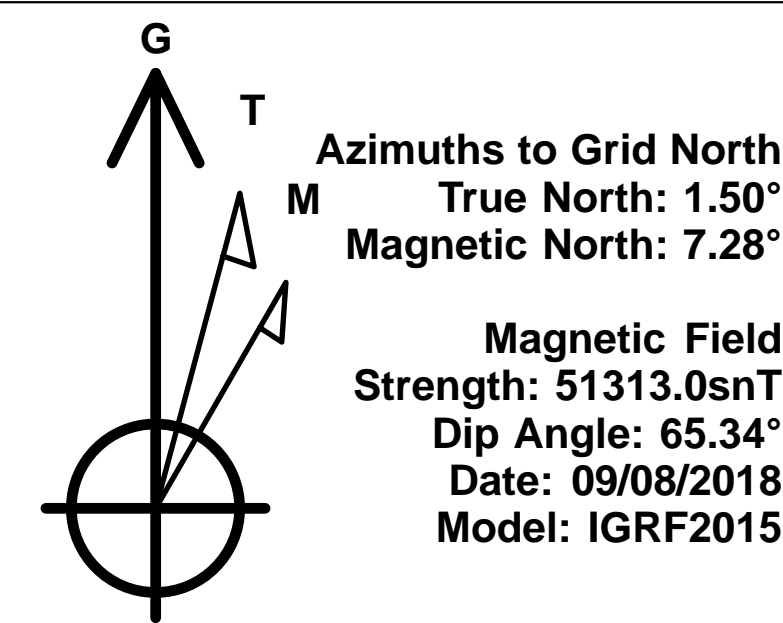
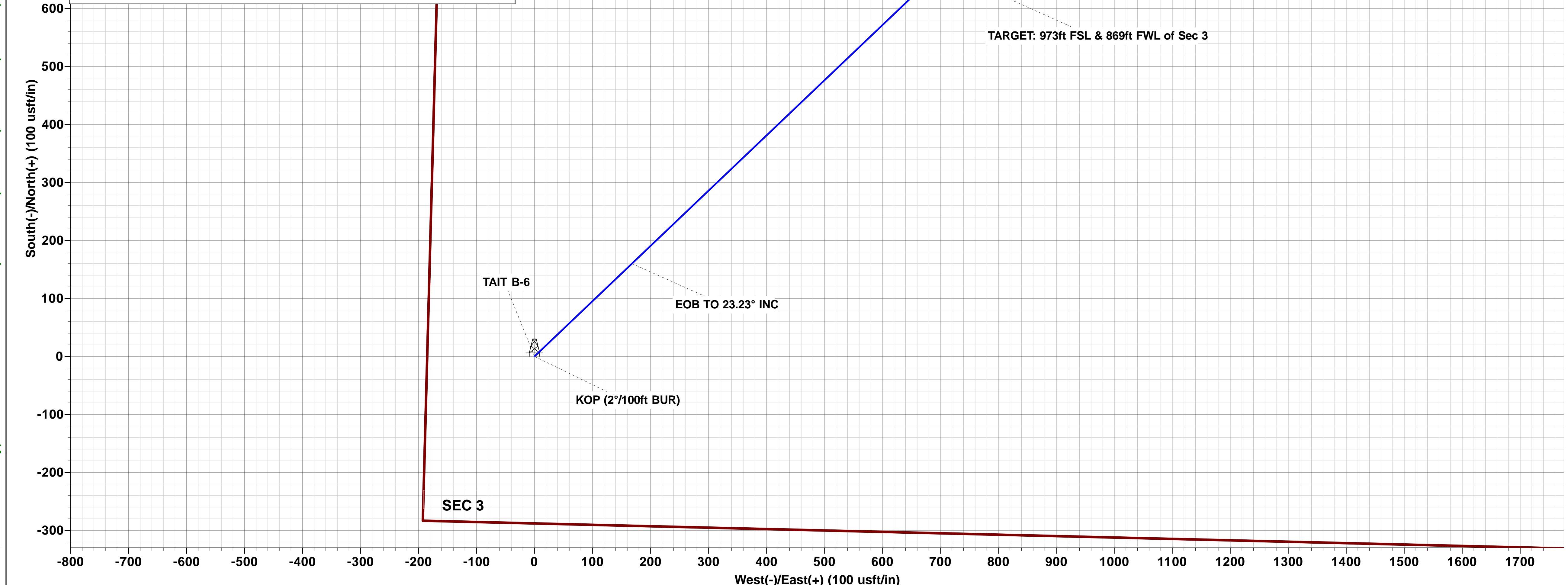
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
TARGET - MORROW B SAND	4848.32	668.71	702.17	460065.33	1297540.08	37.904993	-100.934946

ANNOTATIONS

TVD	MD	Inc	Azi	+N/-S	+E/-W	VSecDeparture	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	SHL: 288ft FSL & 185ft FWL of Sec 3
2000.00	2000.00	0.00	0.00	0.00	0.00	0.00	KOP (2°/100ft BUR)
3129.73	3161.27	23.23	46.40	160.11	168.12	232.16	EOB TO 23.23° INC
4848.32	5031.42	23.23	46.40	668.71	702.17	969.65	TARGET: 973ft FSL & 869ft FWL of Sec 3
5101.60	5307.03	23.23	46.40	743.67	780.88	1078.34	PROPOSED BHL

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
1837.64	1837.64	T/STNC
1931.80	1931.80	B/STNC
2321.00	2321.68	HUTCH SALT
2538.22	2541.44	CHSE GRP
2819.06	2830.65	CGRV GRP
3189.10	3225.88	WBNS GRP
3512.70	3578.02	TPKA
3878.24	3975.79	HBNS SH
4815.58	4995.79	MRRW GRP
4848.32	5031.42	MRW B SD
4853.26	5036.79	OWC



Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well TAIT B-6
Company:	MERIT ENERGY COMPANY	TVD Reference:	KB-EST @ 2912.00usft (Original Well Elev)
Project:	FINNEY COUNTY, KANSAS (NAD27 - GRID)	MD Reference:	KB-EST @ 2912.00usft (Original Well Elev)
Site:	SW SW SEC. 3 T25S R33W 6th P.M.	North Reference:	Grid
Well:	TAIT B-6	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #1		

Project	FINNEY COUNTY, KANSAS (NAD27 - GRID)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Kansas South 1502		Using geodetic scale factor

Site	SW SW SEC. 3 T25S R33W 6th P.M.				
Site Position:		Northing:	459,396.66 usft	Latitude:	37.903107
From:	Map	Easting:	1,296,837.95 usft	Longitude:	-100.937318
Position Uncertainty:	0.00 usft	Slot Radius:	1.10000ft	Grid Convergence:	-1.50 °

Well	TAIT B-6					
Well Position	+N-S	0.00 usft	Northing:	459,396.66 usft	Latitude:	37.903107
	+E-W	0.00 usft	Easting:	1,296,837.95 usft	Longitude:	-100.937318
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	2,900.00 usft

Wellbore	ORIGINAL WELLBORE				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	09/08/2018	5.78	65.34	51,313

Design	PROPOSAL #1			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N-S (usft)	+E-W (usft)	Direction (°)
	4,848.32	0.00	0.00	46.40

Plan Sections											
MD (usft)	Inc (°)	Azi (°)	Vertical Depth	SS (usft)	+N-S (usft)	+E-W (usft)	Dogleg Rate (°/100usf)	Build Rate (°/100usf)	Turn Rate (°/100usf)	TFO (°)	Target
0.00	0.00	0.00	0.00	-2,912.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,000.00	0.00	0.00	2,000.00	-912.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,161.27	23.23	46.40	3,129.73	217.73	160.11	168.12	2.00	2.00	0.00	46.40	
5,031.42	23.23	46.40	4,848.32	1,936.32	668.71	702.17	0.00	0.00	0.00	0.00	TARGET - MORRC
5,307.03	23.23	46.40	5,101.60	2,189.60	743.67	780.88	0.00	0.00	0.00	0.00	

Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well TAIT B-6
Company:	MERIT ENERGY COMPANY	TVD Reference:	KB-EST @ 2912.00usft (Original Well Elev)
Project:	FINNEY COUNTY, KANSAS (NAD27 - GRID)	MD Reference:	KB-EST @ 2912.00usft (Original Well Elev)
Site:	SW SW SEC. 3 T25S R33W 6th P.M.	North Reference:	Grid
Well:	TAIT B-6	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #1		

Planned Survey										
MD (usft)	Inc (°)	Azi (°)	TVD (usft)	SS (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
SHL: 288ft FSL & 185ft FWL of Sec 3										
0.00	0.00	0.00	0.00	2,912.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	2,812.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	2,712.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	2,612.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	2,512.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	2,412.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	2,312.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	2,212.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	2,112.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	2,012.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	1,912.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	1,812.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	1,712.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	1,612.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	1,512.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	1,412.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	1,312.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	1,212.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	1,112.00	0.00	0.00	0.00	0.00	0.00	0.00
T/STNC										
1,837.64	0.00	0.00	1,837.64	1,074.36	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	1,012.00	0.00	0.00	0.00	0.00	0.00	0.00
B/STNC										
1,931.80	0.00	0.00	1,931.80	980.20	0.00	0.00	0.00	0.00	0.00	0.00
KOP (2°/100ft BUR)										
2,000.00	0.00	0.00	2,000.00	912.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	2.00	46.40	2,099.98	812.02	1.20	1.26	1.75	2.00	2.00	0.00
2,200.00	4.00	46.40	2,199.84	712.16	4.81	5.05	6.98	2.00	2.00	0.00
2,300.00	6.00	46.40	2,299.45	612.55	10.82	11.36	15.69	2.00	2.00	0.00
HUTCH SALT										
2,321.68	6.43	46.40	2,321.00	591.00	12.44	13.06	18.04	2.00	2.00	0.00
2,400.00	8.00	46.40	2,398.70	513.30	19.23	20.19	27.88	2.00	2.00	0.00
2,500.00	10.00	46.40	2,497.47	414.53	30.01	31.52	43.52	2.00	2.00	0.00
CHSE GRP										
2,541.44	10.83	46.40	2,538.22	373.78	35.18	36.94	51.01	2.00	2.00	0.00
2,600.00	12.00	46.40	2,595.62	316.38	43.17	45.33	62.60	2.00	2.00	0.00
2,700.00	14.00	46.40	2,693.06	218.94	58.69	61.62	85.10	2.00	2.00	0.00
2,800.00	16.00	46.40	2,789.64	122.36	76.53	80.36	110.98	2.00	2.00	0.00
CGRV GRP										
2,830.65	16.61	46.40	2,819.06	92.94	82.47	86.60	119.58	2.00	2.00	0.00
2,900.00	18.00	46.40	2,885.27	26.73	96.70	101.54	140.21	2.00	2.00	0.00
3,000.00	20.00	46.40	2,979.82	-67.82	119.15	125.11	172.77	2.00	2.00	0.00
3,100.00	22.00	46.40	3,073.17	-161.17	143.86	151.06	208.60	2.00	2.00	0.00
EOB TO 23.23° INC										
3,161.27	23.23	46.40	3,129.73	-217.73	160.11	168.12	232.16	2.00	2.00	0.00
3,200.00	23.23	46.40	3,165.32	-253.32	170.64	179.18	247.43	0.00	0.00	0.00
WBNS GRP										
3,225.88	23.23	46.40	3,189.10	-277.10	177.68	186.57	257.64	0.00	0.00	0.00
3,300.00	23.23	46.40	3,257.22	-345.22	197.84	207.74	286.87	0.00	0.00	0.00
3,400.00	23.23	46.40	3,349.11	-437.11	225.03	236.29	326.30	0.00	0.00	0.00
3,500.00	23.23	46.40	3,441.01	-529.01	252.23	264.85	365.74	0.00	0.00	0.00
TPKA										

Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well TAIT B-6
Company:	MERIT ENERGY COMPANY	TVD Reference:	KB-EST @ 2912.00usft (Original Well Elev)
Project:	FINNEY COUNTY, KANSAS (NAD27 - GRID)	MD Reference:	KB-EST @ 2912.00usft (Original Well Elev)
Site:	SW SW SEC. 3 T25S R33W 6th P.M.	North Reference:	Grid
Well:	TAIT B-6	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #1		

Planned Survey										
MD (usft)	Inc (°)	Azi (°)	TVD (usft)	SS (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
3,578.02	23.23	46.40	3,512.70	-600.70	273.45	287.13	396.50	0.00	0.00	0.00
3,600.00	23.23	46.40	3,532.90	-620.90	279.42	293.41	405.17	0.00	0.00	0.00
3,700.00	23.23	46.40	3,624.80	-712.80	306.62	321.96	444.61	0.00	0.00	0.00
3,800.00	23.23	46.40	3,716.70	-804.70	333.82	350.52	484.04	0.00	0.00	0.00
3,900.00	23.23	46.40	3,808.59	-896.59	361.01	379.08	523.48	0.00	0.00	0.00
HBNR SH										
3,975.79	23.23	46.40	3,878.24	-966.24	381.62	400.72	553.37	0.00	0.00	0.00
4,000.00	23.23	46.40	3,900.49	-988.49	388.21	407.63	562.91	0.00	0.00	0.00
4,100.00	23.23	46.40	3,992.38	-1,080.38	415.40	436.19	602.35	0.00	0.00	0.00
4,200.00	23.23	46.40	4,084.28	-1,172.28	442.60	464.75	641.78	0.00	0.00	0.00
4,300.00	23.23	46.40	4,176.18	-1,264.18	469.80	493.30	681.22	0.00	0.00	0.00
4,400.00	23.23	46.40	4,268.07	-1,356.07	496.99	521.86	720.65	0.00	0.00	0.00
4,500.00	23.23	46.40	4,359.97	-1,447.97	524.19	550.42	760.09	0.00	0.00	0.00
4,600.00	23.23	46.40	4,451.86	-1,539.86	551.38	578.98	799.52	0.00	0.00	0.00
4,700.00	23.23	46.40	4,543.76	-1,631.76	578.58	607.53	838.96	0.00	0.00	0.00
4,800.00	23.23	46.40	4,635.66	-1,723.66	605.78	636.09	878.39	0.00	0.00	0.00
4,900.00	23.23	46.40	4,727.55	-1,815.55	632.97	664.65	917.83	0.00	0.00	0.00
MRRW GRP										
4,995.79	23.23	46.40	4,815.58	-1,903.58	659.02	692.00	955.60	0.00	0.00	0.00
5,000.00	23.23	46.40	4,819.45	-1,907.45	660.17	693.20	957.26	0.00	0.00	0.00
TARGET: 973ft FSL & 869ft FWL of Sec 3 - MRW B SD										
5,031.42	23.23	46.40	4,848.32	-1,936.32	668.71	702.17	969.65	0.00	0.00	0.00
OWC										
5,036.79	23.23	46.40	4,853.26	-1,941.26	670.17	703.71	971.77	0.00	0.00	0.00
5,100.00	23.23	46.40	4,911.34	-1,999.34	687.36	721.76	996.70	0.00	0.00	0.00
5,200.00	23.23	46.40	5,003.24	-2,091.24	714.56	750.32	1,036.13	0.00	0.00	0.00
5,300.00	23.23	46.40	5,095.14	-2,183.14	741.76	778.87	1,075.57	0.00	0.00	0.00
PROPOSED BHL										
5,307.03	23.23	46.40	5,101.60	-2,189.60	743.67	780.88	1,078.34	0.00	0.00	0.00

Formations						
MD (usft)	TVD (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,837.64	1,837.64	T/STNC		0.00		
1,931.80	1,931.80	B/STNC		0.00		
2,321.68	2,321.00	HUTCH SALT		0.00		
2,541.44	2,538.22	CHSE GRP		0.00		
2,830.65	2,819.06	CGRV GRP		0.00		
3,225.88	3,189.10	WBNS GRP		0.00		
3,578.02	3,512.70	TPKA		0.00		
3,975.79	3,878.24	HBNR SH		0.00		
4,995.79	4,815.58	MRRW GRP		0.00		
5,031.42	4,848.32	MRW B SD		0.00		
5,036.79	4,853.26	OWC		0.00		



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well TAIT B-6
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Project:	FINNEY COUNTY, KANSAS (NAD27 - GRID)	MD Reference:	KB-EST @ 2912.00usft (Original Well Elev)
Site:	SW SW SEC. 3 T25S R33W 6th P.M.	North Reference:	Grid
Well:	TAIT B-6	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #1		

Plan Annotations

MD (usft)	TVD (usft)	Local Coordinates		Comment
		+N-S (usft)	+E-W (usft)	
0.00	0.00	0.00	0.00	SHL: 288ft FSL & 185ft FWL of Sec 3
2,000.00	2,000.00	0.00	0.00	KOP (2°/100ft BUR)
3,161.27	3,129.73	160.11	168.12	EOB TO 23.23° INC
5,031.42	4,848.32	668.71	702.17	TARGET: 973ft FSL & 869ft FWL of Sec 3
5,307.03	5,101.60	743.67	780.88	PROPOSED BHL