



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
- Conv. to GSW
- Plug Back: _____ Plug Back Total Depth _____
- 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

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total 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

- Letter of Confidentiality Received
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____



1096954

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops and base 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. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

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 Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> 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
_____ Perforate _____ Protect Casing _____ Plug Back TD _____ Plug Off Zone				

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
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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> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Mark Sievers, Chairman
Thomas E. Wright, Commissioner
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

October 10, 2012

Winnie Scott
Tug Hill Operating, LLC
550 BAILEY AVE, STE 510
FT. WORTH, TX 76107

Re: ACO1
API 15-033-21619-01-00
Bearden Trust 1-7H
SE/4 Sec.07-33S-17W
Comanche County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
Winnie Scott

ALLIED OIL & GAS SERVICES, LLC KB 053426

Federal Tax I.D.# 20-6975804

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

SERVICE POINT:
Liberal, ks.

DATE <u>06-09-12</u>	SEC. <u>7</u>	TWP. <u>T33</u>	RANGE <u>R17W</u>	CALLED OUT	ON LOCATION	JOB START <u>9:30am</u>	JOB FINISH <u>11:30am</u>
LEASE <u>Wooden Trust</u>	WELL # <u>1-7H</u>	LOCATION <u>S. Cold Water</u>	<u>ks.</u>	COUNTY <u>Cass</u>	STATE <u>ks.</u>		
OLD OR <u>(NEW)</u> (Circle one)							

CONTRACTOR Patterson 421 OWNER Tug Hill
 TYPE OF JOB Surface 9 5/8 36#
 HOLE SIZE 12 1/4 T.D.
 CASING SIZE 9 5/8 36# DEPTH 793.89 feet
 TUBING SIZE DEPTH
 DRILL PIPE DEPTH
 TOOL DEPTH
 PRES. MAX 600 PSI MINIMUM
 MEAS. LINE SHOE JOINT 46.57
 CEMENT LEFT IN CSG. 46.57
 PERFS.
 DISPLACEMENT 57.7 Bbls
 EQUIPMENT
 PUMP TRUCK CEMENTER Bob Ryan
 # 549/550 HELPER Leary Barson
 BULK TRUCK
 # 472/467 DRIVER Donald Pimental
 BULK TRUCK
 # DRIVER

CEMENT
 AMOUNT ORDERED 200 sk "A" 3% CC, 2% SNA, 2% Exp Seal 1/4 # 10K Fibre Seal 150 sk Class A, 2% CC.
 COMMON Class A 350 @ 11.25 5687.50
 POZMIX @
 GEL @
 CHLORIDE 10 @ 58.26 582.60
 ASC @
 CPSI 4 @ 34.20 136.80
 VAMS 37 @ 3.00 112.80
 FLSI 50 @ 2.70 135.00
 @
 @
 @
 @
 @
 @
 HANDLING 57 @ 2.10 119.70
 MILEAGE 605 from 19.1 @ 2.35 1422.25
 TOTAL 9976.00

REMARKS:

Got to location 7:45 pm
9:30 pm start circulating mud w. Th
vig. 10:15 pm Pressure test 2000 PSI
10:17 Pump in Bore already then
mix & pump 141 Bbl slurry and
displace with 57.7 Bbl H2O
circulate to surface. Pump plug
at 600 PSI. 1/4 # 10K Fibre Seal
4500s slurs to surface.

CHARGE TO: Tug Hill
 STREET _____
 CITY _____ STATE _____ ZIP _____

SERVICE

DEPTH OF JOB 793.89 feet
 PUMP TRUCK CHARGE 1695.00
 EXTRA FOOTAGE @
 MILEAGE Hwy 16 to 39 @ 7.00 245.00
 MANIFOLD Hwy 1 @ 2.00 2.00
Light Hwy 3 @ 4.00 12.00
 @
 @
 @
 @
 TOTAL 2280.00

PLUG & FLOAT EQUIPMENT

Rubber plug 1 @ 158.00 158.00
 @
 @
 @
 @
 TOTAL 158.00

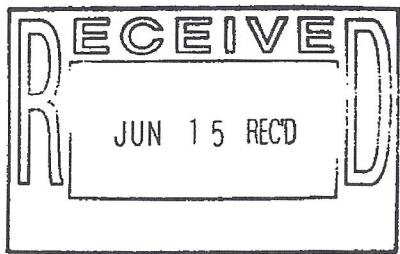
To: Allied Oil & Gas Services, LLC.
 You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL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

PRINTED NAME Jim Quisenberry
 SIGNATURE [Signature]
 AFE: 12-0106

SALES TAX (if Any) _____
 TOTAL CHARGES 12,246.13
 DISCOUNT _____ IF PAID IN 30 DAYS

TOTAL = 7959.98

[Handwritten signature]





CEMENT FIELD TICKET AND TREATMENT REPORT

Customer	Tug Hill Operating	State, County	Comanche, Kansas	Cement Type	CLASS A
Customer Acct #		Section	7	Excess (%)	20
Well No.	0	TWP	33	Density	14.5
Mailing Address	Bearden Trust #1-7H	RGE	17W	Water Required	6.85
City & State	0	Formation	0	Yield	1.58
Zip Code	0	Hole Size	8 3/4	Slurry Weight	0
Contact	0	Hole Depth	0	Slurry Volume	276.5 cuft
Email	0	Casing Size	7INCH, J-55 (26 LBS)	Displacement	209.6
Cell	0	Casing Depth	5529'	Displacement PSI	500-800
Office	0	Drill Pipe	0	MIX PSI	500
Dispatch Location	BARTLESVILLE	Tubing	0	Rate	5-bbpm

Pumped 15bbl ahead and established circulation, ran 175sx of cement w/ 6% OWC / 2% Gel / 2% Calcium / 6# Kol Seal / 10% Salt / .40# Pheno @ 14.5ppg. Flushed

Mix Press 500#

Disp Press 500-800#

Landed plug @ 1500# @ 4:15p.m. / Plug held

Approximately 1500' of coverage

AFE# 12-0106

Handwritten notes:
 *5529' mix
 14.5
 20

ALLIED OIL & GAS SERVICES, LLC 053431

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:
Liberad Ks.

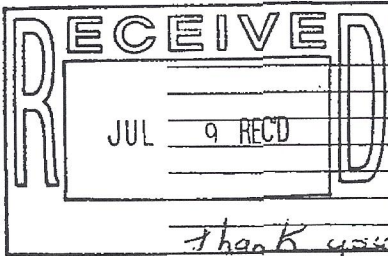
DATE <u>6-28-12</u>	SEC. <u>7</u>	TWP. <u>T-33</u>	RANGE <u>R-17W.</u>	CALLED OUT	ON LOCATION	JOB START <u>9:30</u>	JOB FINISH <u>10:30</u>
DEAD END LEASE <u>TRUST</u>		WELL # <u>1-7H</u>	LOCATION <u>S. Cold Water</u>		COUNTY <u>Comanche</u>	STATE <u>Ks.</u>	
OLD OR <input checked="" type="radio"/> NEW (Circle one)							

CONTRACTOR
 TYPE OF JOB liner 4 1/2
 HOLE SIZE 6 1/8 T.D. 9800 feet
 CASING SIZE 4 1/2 11.6# DEPTH 9668 feet
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE 4 1/2 DEPTH 4385.5
 TOOL _____ DEPTH _____
 PRES. MAX _____ MINIMUM _____
 MEAS. LINE _____ SHOE JOINT _____
 CEMENT LEFT IN CSG. _____
 PERFS. _____
 DISPLACEMENT 115.3 Bbls

OWNER
 CEMENT
 AMOUNT ORDERED 400 sk 'H' FL-160
1% C-20 1% 3ib/sk Gilsorte
Deframer

EQUIPMENT
 PUMP TRUCK CEMENTER R. Chavez B. RYAN
 # 5491550 HELPER Lenny Baeza
 BULK TRUCK
 # 5301559 DRIVER Vicente Torres
 BULK TRUCK
 # _____ DRIVER _____

COMMON <u>400 sk H</u>	@ <u>19.25</u>	<u>7700.00</u>
POZMIX _____	@ _____	_____
GEL _____	@ _____	_____
CHLORIDE _____	@ _____	_____
ASC _____	@ _____	_____
<u>FL-160 378 @</u>	@ <u>17.20</u>	<u>6467.20</u>
<u>C-20 38</u>	@ <u>4.10</u>	<u>155.50</u>
<u>Gilsorte 1200</u>	@ <u>.89</u>	<u>1068.00</u>
<u>Deframer 56</u>	@ <u>8.90</u>	<u>498.40</u>
<u>C-45 94</u>	@ <u>3.00</u>	<u>282.00</u>
<u>S.Flash 500 Gal</u>	@ <u>1.27</u>	<u>635.00</u>
_____	@ _____	_____
_____	@ _____	_____
HANDLING <u>517.6/6 ft</u>	@ <u>2.10</u>	<u>1,086.96</u>
MILEAGE <u>819/ton Mile</u>	@ <u>2.35</u>	<u>1924.65</u>
TOTAL		<u>19818.01</u>



REMARKS:

SERVICE

DEPTH OF JOB _____	<u>9800 feet</u>
PUMP TRUCK CHARGE _____	<u>42.90</u>
EXTRA FOOTAGE _____	@ _____
MILEAGE <u>heavy 35</u>	@ <u>7.00</u> <u>245.00</u>
MANIFOLD _____	@ _____
<u>Light Vehic- 35</u>	@ <u>4.00</u> <u>140.00</u>
_____	@ _____

TOTAL 4675.00

PLUG & FLOAT EQUIPMENT

_____	@ _____	_____
_____	@ _____	_____
_____	@ _____	_____
_____	@ _____	_____
_____	@ _____	_____

TOTAL _____

CHARGE TO: TUG Hill
 STREET _____
 CITY _____ STATE _____ ZIP _____

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 Jim Quisenberry

SIGNATURE Jim Quisenberry

SALES TAX (If Any) _____
 TOTAL CHARGES 24,493.01
 DISCOUNT 15920.45 IF PAID IN 30 DAYS

AFE: 12-0106



Tug Hill Operating, LLC

Comanche County, Kansas (NAD83)

Bearden Trust

1-7H

Wellbore #1

Survey: MS MWD

Standard Survey Report

28 June, 2012



Company:	Tug Hill Operating, LLC	Local Co-ordinate Reference:	Well 1-7H
Project:	Comanche County, Kansas (NAD83)	TVD Reference:	WELL @ 1907.00usft (Patterson - UTI #421)
Site:	Bearden Trust	MD Reference:	WELL @ 1907.00usft (Patterson - UTI #421)
Well:	1-7H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	Southern Region

Project	Comanche County, Kansas (NAD83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Kansas Southern Zone		

Well	1-7H				
Well Position	+N/-S	0.00 usft	Northing:	1,500,182.03 usft	Latitude: 37° 10' 49.5719 N
	+E/-W	0.00 usft	Easting:	1,107,627.08 usft	Longitude: 99° 12' 9.463 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level: 1,884.00 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	WMM_2010	2012/06/06	5.34	65.18	51,818

Design	Surveys				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00		359.22

Survey Program	Date	2012/06/28			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
100.00	720.00	VES Gyro (Wellbore #1)	NS-GYRO-MS	North sensing gyrocompassing m/s	
830.00	9,668.00	MS MWD (Wellbore #1)	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)	
720.00	1.06	356.85	719.98	3.02	2.93	2.98	0.00	0.00	0.00	
Tie-In to VES Gyro-720.00' MD										
830.00	0.60	347.70	829.97	4.60	2.75	4.56	0.43	-0.42	-8.32	
894.00	0.70	337.30	893.96	5.29	2.53	5.25	0.24	0.16	-16.25	
989.00	0.60	351.40	988.96	6.31	2.23	6.28	0.20	-0.11	14.84	
1,084.00	0.70	334.90	1,083.95	7.33	1.91	7.30	0.22	0.11	-17.37	
1,178.00	0.60	326.90	1,177.95	8.26	1.40	8.24	0.14	-0.11	-8.51	
1,274.00	0.70	318.50	1,273.94	9.12	0.73	9.11	0.14	0.10	-8.75	
1,369.00	0.70	331.90	1,368.93	10.07	0.08	10.07	0.17	0.00	14.11	
1,464.00	0.80	339.70	1,463.93	11.20	-0.43	11.21	0.15	0.11	8.21	
1,559.00	1.00	335.20	1,558.91	12.58	-1.00	12.59	0.22	0.21	-4.74	
1,654.00	0.30	216.00	1,653.91	13.13	-1.50	13.15	1.24	-0.74	-125.47	
1,749.00	0.40	192.40	1,748.91	12.61	-1.72	12.63	0.18	0.11	-24.84	
1,843.00	0.40	177.50	1,842.90	11.96	-1.77	11.98	0.11	0.00	-15.85	
1,938.00	0.30	187.40	1,937.90	11.38	-1.79	11.40	0.12	-0.11	10.42	



Company:	Tug Hill Operating, LLC	Local Co-ordinate Reference:	Well 1-7H
Project:	Comanche County, Kansas (NAD83)	TVD Reference:	WELL @ 1907.00usft (Patterson - UTI #421)
Site:	Bearden Trust	MD Reference:	WELL @ 1907.00usft (Patterson - UTI #421)
Well:	1-7H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	Southern Region

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)	
2,032.00	0.30	167.40	2,031.90	10.89	-1.77	10.92	0.11	0.00	-21.28	
2,127.00	0.40	183.90	2,126.90	10.32	-1.74	10.34	0.15	0.11	17.37	
2,222.00	0.30	155.40	2,221.90	9.76	-1.65	9.79	0.21	-0.11	-30.00	
2,316.00	0.40	189.20	2,315.90	9.22	-1.60	9.24	0.24	0.11	35.96	
2,411.00	0.20	168.90	2,410.90	8.73	-1.63	8.75	0.24	-0.21	-21.37	
2,506.00	0.30	159.60	2,505.89	8.33	-1.51	8.35	0.11	0.11	-9.79	
2,601.00	0.40	157.20	2,600.89	7.79	-1.29	7.81	0.11	0.11	-2.53	
2,695.00	0.40	177.50	2,694.89	7.16	-1.15	7.18	0.15	0.00	21.60	
2,790.00	0.40	143.10	2,789.89	6.57	-0.94	6.58	0.25	0.00	-36.21	
2,885.00	0.30	97.10	2,884.89	6.27	-0.49	6.28	0.30	-0.11	-48.42	
2,980.00	0.20	33.30	2,979.89	6.38	-0.15	6.38	0.29	-0.11	-67.16	
3,074.00	0.40	40.70	3,073.88	6.76	0.15	6.76	0.22	0.21	7.87	
3,168.00	0.20	53.90	3,167.88	7.11	0.50	7.10	0.22	-0.21	14.04	
3,262.00	0.30	8.90	3,261.88	7.45	0.67	7.44	0.23	0.11	-47.87	
3,356.00	0.10	356.80	3,355.88	7.77	0.70	7.76	0.22	-0.21	-12.87	
3,451.00	0.10	48.80	3,450.88	7.91	0.76	7.90	0.09	0.00	54.74	
3,545.00	0.20	15.80	3,544.88	8.12	0.87	8.11	0.14	0.11	-35.11	
3,640.00	0.30	42.70	3,639.88	8.46	1.08	8.45	0.16	0.11	28.32	
3,735.00	0.30	49.30	3,734.88	8.81	1.44	8.79	0.04	0.00	6.95	
3,890.00	0.20	98.00	3,889.88	9.04	2.01	9.01	0.15	-0.06	31.42	
3,925.00	0.30	48.90	3,924.88	9.09	2.14	9.06	0.65	0.29	-140.29	
4,020.00	0.20	32.10	4,019.88	9.39	2.42	9.36	0.13	-0.11	-17.68	
4,114.00	0.40	28.20	4,113.88	9.82	2.66	9.78	0.21	0.21	-4.15	
4,209.00	0.40	21.70	4,208.87	10.42	2.94	10.38	0.05	0.00	-6.84	
4,304.00	0.40	10.80	4,303.87	11.05	3.12	11.01	0.08	0.00	-11.47	
4,399.00	0.40	28.00	4,398.87	11.67	3.34	11.63	0.13	0.00	18.11	
4,493.00	0.40	32.80	4,492.87	12.24	3.67	12.19	0.04	0.00	5.11	
4,601.00	0.50	44.50	4,600.86	12.89	4.21	12.83	0.13	0.09	10.83	
4,633.00	0.70	35.60	4,632.86	13.15	4.42	13.09	0.69	0.63	-27.81	
4,664.00	3.30	13.20	4,663.84	14.17	4.73	14.11	8.60	8.39	-72.26	
4,696.00	6.60	5.60	4,695.72	16.90	5.12	16.83	10.49	10.31	-23.75	
4,728.00	11.00	3.70	4,727.33	21.78	5.50	21.70	13.78	13.75	-5.94	
4,760.00	16.00	4.20	4,758.44	29.23	6.02	29.14	15.63	15.63	1.56	
4,791.00	20.50	3.00	4,787.87	38.92	6.62	38.82	14.57	14.52	-3.87	
4,817.00	25.00	2.10	4,811.84	48.96	7.06	48.86	17.36	17.31	-3.46	
4,848.00	28.70	1.40	4,839.50	62.95	7.48	62.84	11.98	11.94	-2.26	
4,880.00	32.40	0.80	4,867.05	79.21	7.79	79.10	11.60	11.56	-1.88	
4,911.00	35.70	0.00	4,892.73	96.56	7.90	96.45	10.74	10.65	-2.58	
4,942.00	39.30	358.40	4,917.32	115.43	7.63	115.31	12.03	11.61	-5.16	
4,974.00	42.70	356.30	4,941.47	136.39	6.65	136.29	11.46	10.63	-6.56	
5,006.00	46.70	355.60	4,964.21	158.84	5.05	158.76	12.59	12.50	-2.19	
5,038.00	50.00	356.10	4,985.47	182.69	3.32	182.62	10.38	10.31	1.56	
5,070.00	53.90	355.50	5,005.19	207.81	1.47	207.77	12.28	12.19	-1.88	



Company:	Tug Hill Operating, LLC	Local Co-ordinate Reference:	Well 1-7H
Project:	Comanche County, Kansas (NAD83)	TVD Reference:	WELL @ 1907.00usft (Patterson - UTI #421)
Site:	Bearden Trust	MD Reference:	WELL @ 1907.00usft (Patterson - UTI #421)
Well:	1-7H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	Southern Region

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)	
5,101.00	58.40	356.00	5,022.46	233.48	-0.43	233.47	14.58	14.52	1.61	
5,133.00	60.80	356.70	5,038.65	261.02	-2.18	261.03	7.73	7.50	2.19	
5,165.00	61.60	355.90	5,054.06	289.01	-3.99	289.03	3.32	2.50	-2.50	
5,195.00	61.80	355.80	5,068.29	315.35	-5.91	315.40	0.73	0.67	-0.33	
5,228.00	62.50	356.10	5,083.70	344.46	-7.97	344.53	2.27	2.12	0.91	
5,260.00	65.10	356.30	5,097.83	373.10	-9.87	373.20	8.14	8.13	0.63	
5,292.00	68.50	357.60	5,110.44	402.47	-11.43	402.59	11.26	10.63	4.06	
5,324.00	71.80	358.10	5,121.30	432.54	-12.56	432.67	10.42	10.31	1.56	
5,356.00	75.80	358.20	5,130.23	463.25	-13.55	463.39	12.50	12.50	0.31	
5,388.00	78.70	358.60	5,137.29	494.44	-14.42	494.59	9.14	9.06	1.25	
5,419.00	81.80	358.90	5,142.54	524.99	-15.09	525.14	10.05	10.00	0.97	
5,451.00	85.30	358.80	5,146.13	556.77	-15.72	556.93	10.94	10.94	-0.31	
5,514.00	88.40	358.80	5,149.59	619.65	-17.04	619.83	4.92	4.92	0.00	
5,613.00	90.50	359.20	5,150.54	718.63	-18.77	718.82	2.16	2.12	0.40	
5,708.00	91.90	358.80	5,148.55	813.59	-20.43	813.79	1.53	1.47	-0.42	
5,804.00	90.90	358.70	5,146.21	909.54	-22.52	909.76	1.05	-1.04	-0.10	
5,899.00	90.30	359.10	5,145.21	1,004.52	-24.34	1,004.75	0.76	-0.63	0.42	
5,994.00	91.30	1.30	5,143.89	1,099.50	-24.01	1,099.72	2.54	1.05	2.32	
6,089.00	91.00	0.70	5,141.98	1,194.46	-22.35	1,194.66	0.71	-0.32	-0.63	
6,184.00	90.80	1.20	5,140.49	1,289.44	-20.78	1,289.60	0.57	-0.21	0.53	
6,279.00	91.40	0.60	5,138.66	1,384.41	-19.29	1,384.54	0.89	0.63	-0.63	
6,373.00	90.70	0.80	5,136.94	1,478.39	-18.14	1,478.50	0.77	-0.74	0.21	
6,468.00	90.40	0.30	5,136.03	1,573.38	-17.23	1,573.47	0.61	-0.32	-0.53	
6,564.00	91.80	0.20	5,134.19	1,669.36	-16.81	1,669.43	1.46	1.46	-0.10	
6,659.00	90.40	0.80	5,132.36	1,764.33	-15.98	1,764.39	1.60	-1.47	0.63	
6,754.00	90.60	359.70	5,131.53	1,859.33	-15.56	1,859.37	1.18	0.21	-1.16	
6,850.00	90.90	358.50	5,130.28	1,955.30	-17.07	1,955.36	1.29	0.31	-1.25	
6,944.00	89.80	358.00	5,129.70	2,049.26	-19.94	2,049.34	1.29	-1.17	-0.53	
7,039.00	89.70	358.10	5,130.12	2,144.20	-23.18	2,144.32	0.15	-0.11	0.11	
7,132.00	90.90	358.10	5,129.63	2,237.15	-26.26	2,237.30	1.29	1.29	0.00	
7,226.00	91.00	357.40	5,128.07	2,331.06	-29.95	2,331.25	0.75	0.11	-0.74	
7,321.00	92.10	357.50	5,125.50	2,425.93	-34.17	2,426.17	1.16	1.16	0.11	
7,416.00	92.00	358.10	5,122.10	2,520.80	-37.82	2,521.08	0.64	-0.11	0.63	
7,510.00	90.90	359.50	5,119.72	2,614.74	-39.79	2,615.04	1.89	-1.17	1.49	
7,606.00	91.20	359.50	5,117.97	2,710.72	-40.62	2,711.03	0.31	0.31	0.00	
7,701.00	89.10	359.40	5,117.72	2,805.71	-41.54	2,806.02	2.21	-2.21	-0.11	
7,796.00	88.40	358.70	5,119.79	2,900.68	-43.11	2,901.00	1.04	-0.74	-0.74	
7,890.00	91.20	359.30	5,120.12	2,994.65	-44.75	2,994.98	3.05	2.98	0.64	
7,986.00	92.40	359.30	5,117.10	3,090.60	-45.92	3,090.94	1.25	1.25	0.00	
8,080.00	93.10	358.10	5,112.59	3,184.46	-48.05	3,184.82	1.48	0.74	-1.28	
8,174.00	92.10	359.50	5,108.33	3,278.34	-50.02	3,278.72	1.83	-1.06	1.49	
8,268.00	91.30	359.80	5,105.54	3,372.30	-50.59	3,372.67	0.91	-0.85	0.32	
8,363.00	91.70	359.20	5,103.05	3,467.26	-51.42	3,467.64	0.76	0.42	-0.63	



Company:	Tug Hill Operating, LLC	Local Co-ordinate Reference:	Well 1-7H
Project:	Comanche County, Kansas (NAD83)	TVD Reference:	WELL @ 1907.00usft (Patterson - UTI #421)
Site:	Bearden Trust	MD Reference:	WELL @ 1907.00usft (Patterson - UTI #421)
Well:	1-7H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	Southern Region

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)
8,457.00	90.70	359.30	5,101.08	3,561.23	-52.65	3,561.62	1.07	-1.06	0.11
8,552.00	90.50	0.10	5,100.09	3,656.22	-53.15	3,656.61	0.87	-0.21	0.84
8,648.00	89.90	1.60	5,099.75	3,752.21	-51.72	3,752.57	1.68	-0.63	1.56
8,743.00	89.30	1.20	5,100.42	3,847.18	-49.40	3,847.49	0.76	-0.63	-0.42
8,838.00	88.40	358.80	5,102.32	3,942.15	-49.40	3,942.46	2.70	-0.95	-2.53
8,933.00	88.50	358.40	5,104.89	4,037.09	-51.72	4,037.42	0.43	0.11	-0.42
9,027.00	89.30	357.40	5,106.70	4,131.00	-55.17	4,131.37	1.36	0.85	-1.06
9,123.00	90.60	357.70	5,106.78	4,226.91	-59.27	4,227.33	1.39	1.35	0.31
9,218.00	88.30	357.00	5,107.69	4,321.80	-63.66	4,322.27	2.53	-2.42	-0.74
Final Survey-9218.00' MD									
9,668.00	88.30	357.00	5,121.04	4,770.99	-87.20	4,771.73	0.00	0.00	0.00
Projection to TD-9668.00' MD									

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
720.00	719.98	3.02	2.93	Tie-In to VES Gyro-720.00' MD
9,218.00	5,107.69	4,321.80	-63.66	Final Survey-9218.00' MD
9,668.00	5,121.04	4,770.99	-87.20	Projection to TD-9668.00' MD

Well Name: Bearden Trust 1-7H

Contractor/Rig: Patterson-UTI 421

State: KS

County: Comanche

SHL: 200 FSL & 660 FEL

Township: 33S

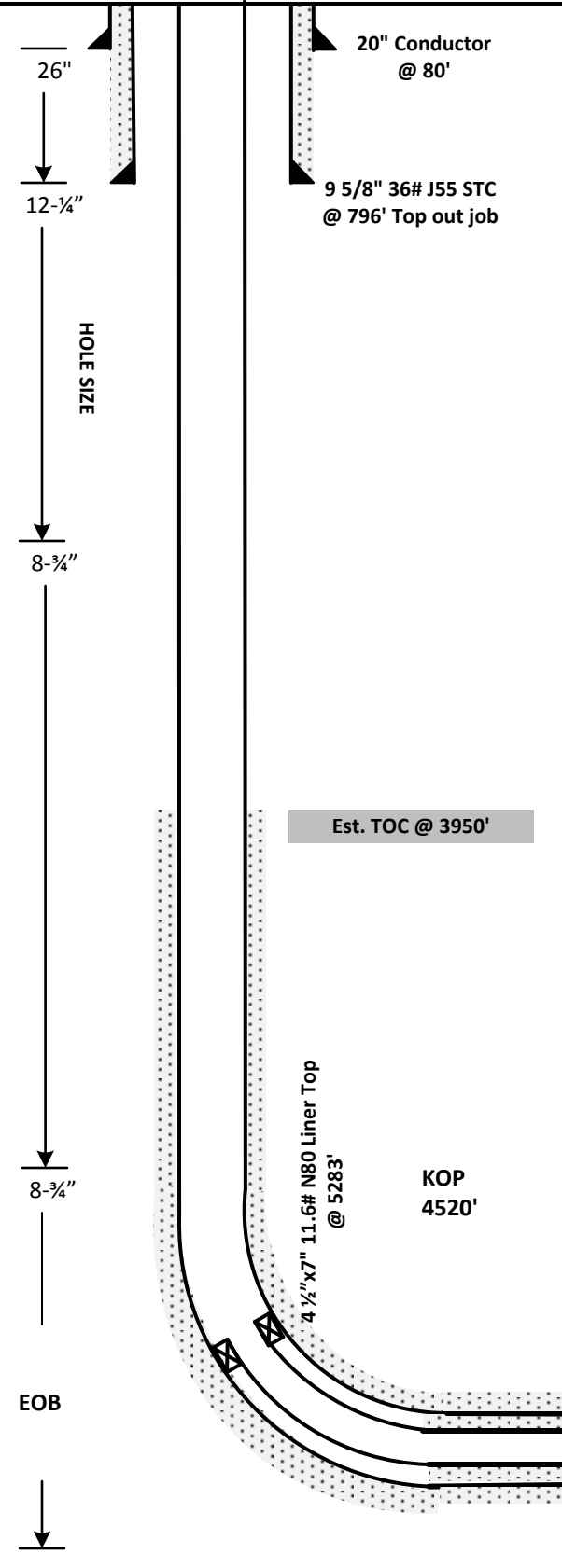
As Run

GL Elev: 1883 KB: 23 KB Elev: 1960

BHL: 330' FNL & 660' FEL

AFE: 12-0106

Permit/API Number: 15-033-21619-01-00



Tubular Details

	20"	9 5/8"	7"	4-1/2"
Weight	94 lb/ft	36 lb/ft	26 lb/ft	15.10 lb/ft
Grade	X-42	J-55	P-110	N-80
Burst	3590 psi	3520 psi	9960 psi	10480 psi
Collapse	NA	2020 psi	6230 psi	11080 psi
Wall Thickness	0.438"	0.352"	0.724"	0.337"
ID	19.124"	8.921"	6.276"	3.826"
Setting Depth	80'	796'	5529'	9668'

Cement Details

Interval	Company	Excess	Est. Vol
Surface			
Intermediate			
Production Lead			
Production Tail			

See attachments for slurry details

4 1/2" 11.6# N80 LTC at 9668'



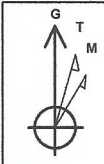
Company: Tug Hill Operating, LLC
 Site: Bearden Trust
 Well: 1-7H
 Project: Comanche County, Kansas (NAD83)
 Rig Name: Patterson - UTI #421



Planning: 936.442.2510 Fax: 936.442.2515
 Operations: 936.442.2500 Fax: 936.442.2599

ANNOTATIONS

MD	Inc	Azi	TVD	+N-S	+E/-W	Vsect	Departure	Annotation
4620.00	0.00	0.00	4620.00	0.00	0.00	0.00	0.00	KOP, 12.00°/100' Build
5120.00	60.00	359.22	5033.50	238.71	-3.25	238.73	238.73	Begin 60.00° Tangent
5240.00	60.00	359.22	5093.50	342.62	-4.67	342.66	342.66	Begin 12.00°/100' Build
5498.30	91.00	359.22	5157.39	589.63	-8.03	589.68	589.68	Begin 91.00° Lateral
9682.08	91.00	359.22	5084.69	4772.40	-65.03	4772.84	4772.84	PBHL

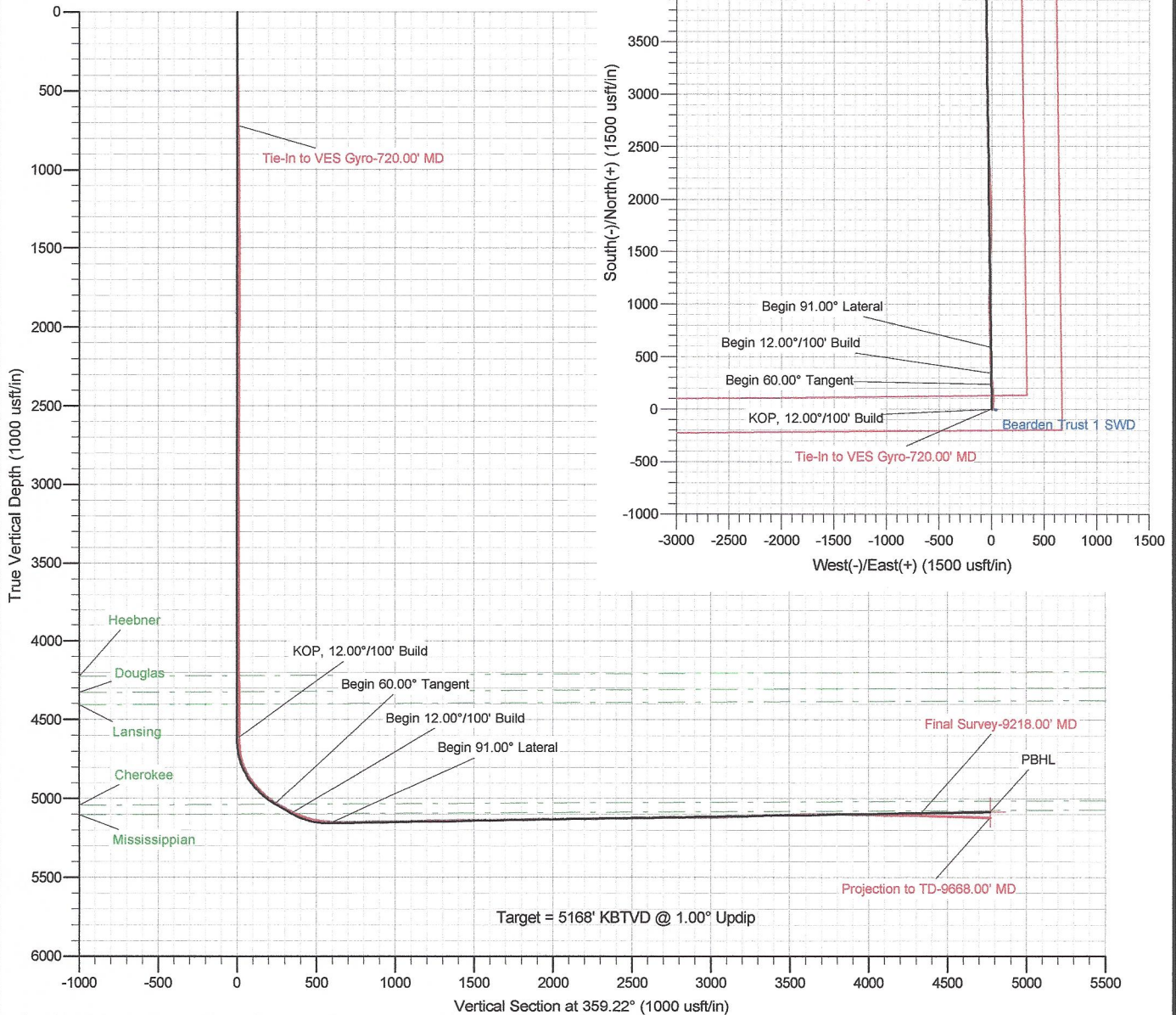


Azimuths to Grid North
 True North: 0.43°
 Magnetic North: 5.77°

Magnetic Field
 Strength: 51818.4snT
 Dip Angle: 65.18°
 Date: 06/06/2012
 Model: WMM_2010

Created By: Hunter Heseman
 Date: 14:03, June 28 2012
 Plan: Design #3

US State Plane 1983
 Kansas Southern Zone



The customer should only rely on this document after independently verifying all paths, targets, coordinates, lease and hard lines represented. Any decisions made or wells drilled utilizing this or any other information supplied by MS Energy are at the sole risk and responsibility of the customer. MS Energy is not responsible for the accuracy of this schematic or the information contained herein.



Company: Tug Hill Operating, LLC
 Site: Bearden Trust
 Well: 1-7H
 Project: Comanche County, Kansas (NAD83)
 Rig Name: Patterson - UTI #421



Planning: 936.442.2510 Fax: 936.442.2515
 Operations: 936.442.2500 Fax: 936.442.2599

ANNOTATIONS

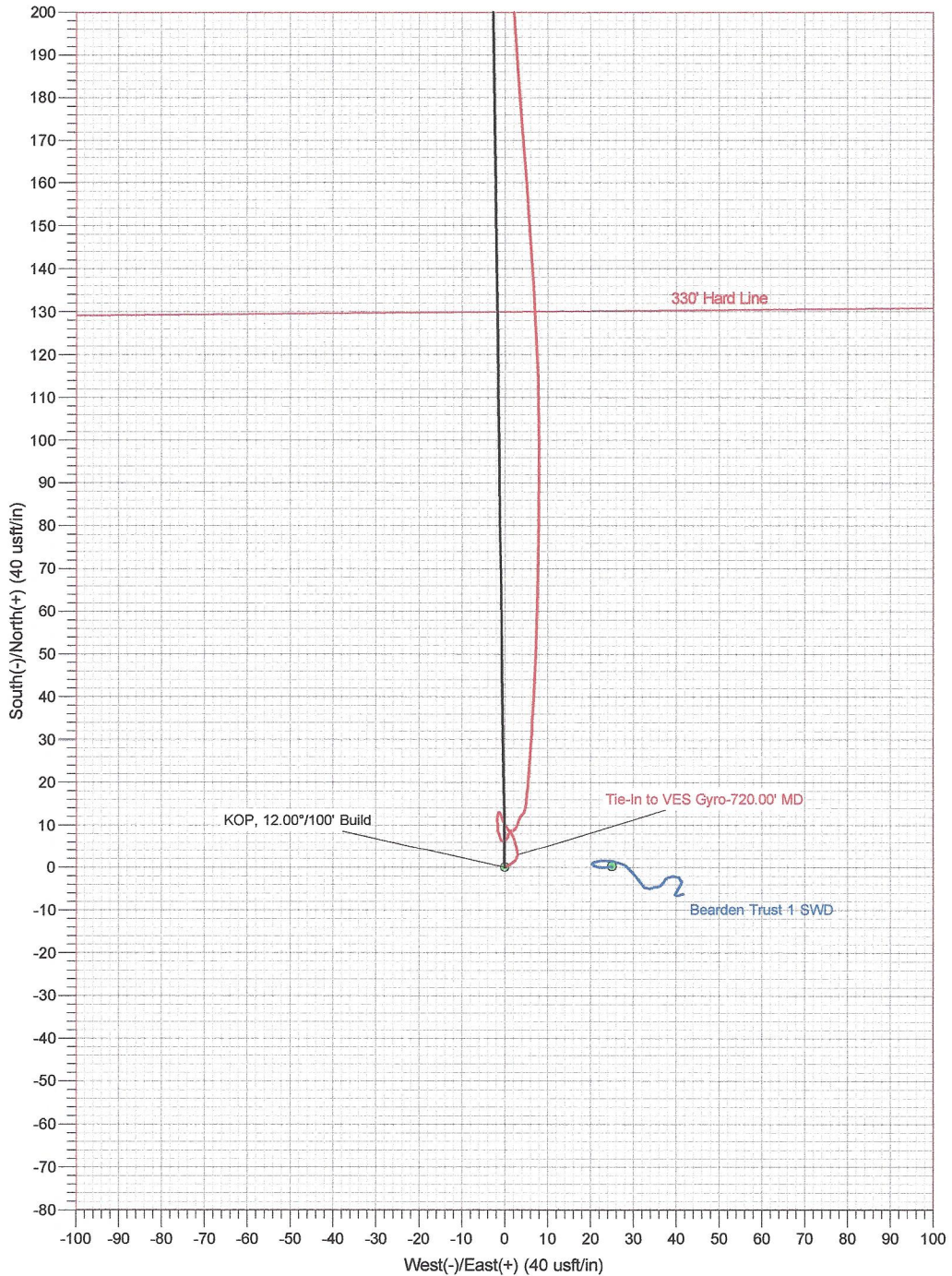
MD	Inc	Azi	TVD	+N/-S	+E/-W	VSec	Departure	Annotation
4620.00	0.00	0.00	4620.00	0.00	0.00	0.00	0.00	KOP, 12.00°/100' Build
5120.00	60.00	359.22	5033.50	238.71	-3.25	238.73	238.73	Begin 60.00° Tangent
5240.00	60.00	359.22	5093.50	342.62	-4.67	342.66	342.66	Begin 12.00°/100' Build
5498.30	91.00	359.22	5157.39	589.63	-8.03	589.68	589.68	Begin 91.00° Lateral
9682.08	91.00	359.22	5084.69	4772.40	-65.03	4772.84	4772.84	PBHL

Azimuths to Grid North
 True North: 0.43°
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 Magnetic Field
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Created By: Hunter Heseman
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US State Plane 1983
 Kansas Southern Zone



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Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Mark Sievers, Chairman
Thomas E. Wright, Commissioner
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

October 11, 2012

Winnie Scott
Tug Hill Operating, LLC
550 BAILEY AVE, STE 510
FT. WORTH, TX 76107

Re: ACO-1
API 15-033-21619-01-00
Bearden Trust 1-7H
SE/4 Sec.07-33S-17W
Comanche County, Kansas

Dear Winnie Scott:

K.A.R. 82-3-107 provides for all completion information to be filed within 120 days of the spud date. Subsection(e)(2) of that regulation states "All rights to confidentiality shall be lost if the filings are not timely."

The above referenced well was spudded on 06/07/2012 and the ACO-1 was received on October 10, 2012 (not within the 120 days timely requirement).

Therefore, your request for confidential treatment of data contained within the ACO-1 filing cannot be granted at this time.

If you should have any questions, please do not hesitate to contact me at (316)337-6200.

Sincerely,

Production Department