



KANSAS CORPORATION COMMISSION 1099245  
OIL & GAS CONSERVATION DIVISION

Form ACO-1  
June 2009  
Form Must Be Typed  
Form must be Signed  
All blanks must be Filled

**WELL COMPLETION FORM**  
**WELL HISTORY - DESCRIPTION OF WELL & LEASE**

OPERATOR: License # 34662  
Name: Tug Hill Operating, LLC  
Address 1: 550 BAILEY AVE, STE 510  
Address 2: \_\_\_\_\_  
City: FT. WORTH State: TX Zip: 76107 + \_\_\_\_\_  
Contact Person: Win  
Phone: ( 817 ) 632-3400  
CONTRACTOR: License # 34670  
Name: Patterson-UTI Drilling Company LLC  
Wellsite Geologist: NA  
Purchaser: \_\_\_\_\_

Designate Type of Completion:  
 New Well     Re-Entry     Workover  
 Oil     WSW     SWD     SLOW  
 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 #: \_\_\_\_\_  
04/15/2012    05/10/2012    10/11/2012  
Spud Date or    Date Reached TD    Completion Date or  
Recompletion Date       Recompletion Date

API No. 15 - 15-033-21618-01-00  
Spot Description: \_\_\_\_\_  
S2 S2 SE SE Sec. 28 Twp. 31 S. R. 20  East  West  
200 Feet from  North /  South Line of Section  
660 Feet from  East /  West Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
 NE     NW     SE     SW  
County: Comanche  
Lease Name: Edmonston Well #: 1-28H  
Field Name: \_\_\_\_\_  
Producing Formation: Mississippi  
Elevation: Ground: 1967 Kelly Bushing: 1990  
Total Depth: 9685 Plug Back Total Depth: 9389  
Amount of Surface Pipe Set and Cemented at: 700 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: 18000 ppm Fluid volume: 1300 bbls  
Dewatering method used: Evaporated  
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: 11/12/2012  
 Confidential Release Date: \_\_\_\_\_  
 Wireline Log Received  
 Geologist Report Received  
 UIC Distribution  
ALT  I  II  III Approved by: Deanna Garrison Date: 11/13/2012



1099245

Operator Name: Tug Hill Operating, LLC Lease Name: Edmonston Well #: 1-28H  
 Sec. 28 Twp. 31 S. R. 20  East  West County: Comanche

**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 checked="" type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input checked="" 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  <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:60%;">Name</td> <td style="width:20%;">Top</td> <td style="width:20%;">Datum</td> </tr> <tr> <td>Cherokee</td> <td>-3030</td> <td>SS</td> </tr> <tr> <td>Mississippi</td> <td>-3121</td> <td>SS</td> </tr> <tr> <td>Viola</td> <td>-3858</td> <td>SS</td> </tr> </table>	Name	Top	Datum	Cherokee	-3030	SS	Mississippi	-3121	SS	Viola	-3858	SS
Name	Top	Datum											
Cherokee	-3030	SS											
Mississippi	-3121	SS											
Viola	-3858	SS											

CASING RECORD <input checked="" 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
Surface	12.25	9.628	36	700	Class A	455	
Intermediate	8.75	7	26	5528	Class A	275	
Liner	6.125	4.5	11.6	9683	Class H	475	

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	-			
	-			

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
5	5542 - 9625	801,371# 20/40 white sand	5542 - 9625

TUBING RECORD: Size: <u>2.8750</u> Set At: <u>7334</u> Packer At: <u>7334</u> Liner Run: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Date of First, Resumed Production, SWD or ENHR.	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 checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: <u>5542 - 9625</u>
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# ALLIED OIL & GAS SERVICES, LLC 054068

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

SERVICE POINT:  
Medicine Lodge

DATE <u>4-17-12</u>	SEC <u>28</u>	TWP <u>31</u>	RANGE <u>20W</u>	CALLED OUT <u>10:00</u>	ON LOCATION <u>2:00</u>	JOB START <u>12:53</u>	JOB FINISH <u>2:00</u>
LEASE <u>Edgerton</u> WELL # <u>1-28H</u>			LOCATION <u>Coldwater, NE Ave F, 9 mi W</u>		COUNTY <u>Comanche</u>	STATE <u>Ks</u>	
OLD OR <u>NEW</u> (Circle one)							

CONTRACTOR D. Hansen UTE #421

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D. 700

CASING SIZE 9 5/8 DEPTH 700

TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_

DRILL PIPE \_\_\_\_\_ DEPTH \_\_\_\_\_

TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_

PRES. MAX \_\_\_\_\_ MINIMUM \_\_\_\_\_

MEAS. LINE \_\_\_\_\_ SHOE JOINT 43.70

CEMENT LEFT IN CSG. \_\_\_\_\_

PERFS. \_\_\_\_\_

DISPLACEMENT 50 3/4 Bbls

OWNER Tug Hill

CEMENT

AMOUNT ORDERED 200sx A + 3% cc + 2% SAS + 2% GYP  
+ 1/4 Flo Seal

150sx Class A + 2% cc

10sx Class A + 2% cc Mouse Hole

COMMON 360 @ 16.25 5,850.00

POZMIX \_\_\_\_\_ @ \_\_\_\_\_

GEL \_\_\_\_\_ @ \_\_\_\_\_

CHLORIDE 10 @ 58.20 582.00

ASC \_\_\_\_\_ @ \_\_\_\_\_

Sugar 204# @ 2.88 583.68

By Seal 4 @ 34.20 136.80

SMS 376# @ 3.00 1,128.00

Flo Seal 50# @ 2.70 135.00

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

HANDLING 388 @ 2.10 814.80

MILEAGE 605.50 @ 2.35 1,422.53

TOTAL 10,363.16

EQUIPMENT

PUMP TRUCK CEMENTER Bob R.

#548-545 HELPER Matt T.

BULK TRUCK

#381- DRIVER Garrett M / Gans

BULK TRUCK

DRIVER \_\_\_\_\_

REMARKS:

See Cement Log

Edgerton 1-28H

NE: 12-0101

Radall DAVIS

SERVICE

DEPTH OF JOB 700'

PUMP TRUCK CHARGE 1,125.00

EXTRA FOOTAGE 400 @ .85 380.00

MILEAGE 35 @ 7.00 245.00

MANIFOLD \_\_\_\_\_ @ \_\_\_\_\_

Light Veh. 35 @ 4.00 140.00

\_\_\_\_\_ @ \_\_\_\_\_

TOTAL \$2090.00

CHARGE TO: Tug Hill

STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

9 5/8 PLUG & FLOAT EQUIPMENT

Rubber Plug \_\_\_\_\_ @ \_\_\_\_\_ 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 Radall DAVIS

SIGNATURE Radall Davis

SALES TAX (If Any) \_\_\_\_\_

TOTAL CHARGES \$12,611.16

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

4/26/2012

# 2493712

1820000271

CEMENT FIELD TICKET AND TREATMENT REPORT

Customer	Tug Hill Operating	State, County	Comanche, Kansas	Cement Type	
Job Type	Intermediate casing	Section		Excess (%)	20
Customer Acct #	2827	TWP		Density	14.5
Well No.	Edmonson #1-28H	RGE		Water Required	
Mailing Address		Formation		Yield	1.58
City & State		Hole Size	8 3/4	Slurry Weight	14.5
Zip Code		Hole Depth		Slurry Volume	434.5 cuft
Contact		Casing Size	7INCH, J-55 (26 LBS)	Displacement	209.29
Email		Casing Depth	5528	Displacement PSI	350-800
Cell		Drill Pipe		MIX PSI	350
Dispatch Location	BARTLESVILLE	Tubing		Rate	8-Jun
Code	Cement Pump Charges and Mileage	Quantity	Unit	Price per Unit	
5401D	DOUBLE PUMP (CASING JOB) 2000'-4000'	1	PER JOB	\$1,430.00	\$ 1,430.00
5406	EQUIPMENT MILEAGE (ONE-WAY)	100	PER MILE	\$4.00	\$ 400.00
5407A	TON MILEAGE DELIVERY	400	PER MILE	\$1.34	\$ 638.00
0		0	0	\$0.00	\$ -
0		0	0	\$0.00	\$ -
0		0	0	\$0.00	\$ -
0		0	0	\$0.00	\$ -
0		0	0	\$0.00	\$ -
0		0	0	\$0.00	\$ -
5402	FOOTAGE	5,528	PER FOOT	0.22	\$ 1,216.16
					EQUIPMENT TOTAL \$ 3,582.16
Cement, Chemicals and Water					
1126	WVC. CEMENT (CAL SEAL) 8%WVC, 2% CAL. CHLORIDE 2% GE	275	0	\$18.00	\$ 5,170.00
1107A	PHENOSEAL	120	0	\$1.29	\$ 154.80
1110A	KOL SEAL (50 # SK)	1,650	0	\$0.48	\$ 799.00
1111	GRANULATED SALT (50#) SELL BY #	1,800	0	\$0.37	\$ 592.00
0		0	0	\$0.00	\$ -
0		0	0	\$0.00	\$ -
0		0	0	\$0.00	\$ -
0		0	0	\$0.00	\$ -
0		0	0	\$0.00	\$ -
0		0	0	\$0.00	\$ -
0		0	0	\$0.00	\$ -
					CHEMICAL TOTAL \$ 6,675.80
Water Transport					
0		0	0	\$0.00	\$ -
0		0	0	\$0.00	\$ -
0		0	0	\$0.00	\$ -
					TRANSPORT TOTAL \$ -
Cement Floating Equipment (TAXABLE)					
0	Cement Basket		0	\$0.00	\$ -
0	Centralizer		0	\$0.00	\$ -
0	Float Shoe		0	\$0.00	\$ -
0	Float Collars		0	\$0.00	\$ -
0	Guide Shoes		0	\$0.00	\$ -
0	Baffle and Flapper Plates		0	\$0.00	\$ -
0	Packer Shoes		0	\$0.00	\$ -
0	DV Tools		0	\$0.00	\$ -
0	Ball Valves, Swedges, Clamps, Misc.		0	\$0.00	\$ -
0			0	\$0.00	\$ -
0			0	\$0.00	\$ -
0			0	\$0.00	\$ -
4409	7" RUBBER PLUG (TOP)	1	PER UNIT	\$82.00	\$ 82.00
0	Downhole Tools		0	\$0.00	\$ -
					CEMENT FLOATING EQUIPMENT TOTAL \$ 82.00
					SUB TOTAL \$ 10,680.96
					SALES TAX \$ 1,068.10
					DISCOUNTED TOTAL \$ 9,689.14
TRUCK#	DRIVER NAME	<p>Edmonson 10%          04-28-11 RANDALL PAUF          12-010</p>			
581 T133	Williams, Cheney				
500 T93	Marrs, Casey				
AUTHORIZATION		TITLE			
DATE		FOREMAN			

I ACKNOWLEDGE THAT THE PAYMENT TERMS, UNLESS SPECIFICALLY AMENDED IN WRITING ON THE FRONT OF THE FORM OR IN THE CUSTOMER'S ACCOUNT RECORDS, AT OUR OFFICE, AND CONDITIONS OF SERVICE ON THE BACK OF THIS FORM ARE IN EFFECT FOR SERVICES IDENTIFIED ON THIS FORM.

A/26/2012

1820000271

CEMENT FIELD TICKET AND TREATMENT REPORT

Customer	Tug Hill Operating	State, County	Comanche, Kansas	Cement Type	
Customer Acct #	Intermediate casing	Section	0	Excess (%)	20
Well No.	0	TWP	0	Density	14.5
Mailing Address	Edmonson #1-28H	RGE	0	Water Required	0
City & State	0	Formation	0	Yield	1.58
Zip Code	0	Hole Size	8 3/4	Slurry Weight	14.5
Contact	0	Hole Depth	0	Slurry Volume	434.5 cuft
Email	0	Casing Size	7INCH, J-55 (26 LBS)	Displacement	209.29
Cell	0	Casing Depth	5528	Displacement PSI	350-800
Office	0	Drill Pipe	0	MIX PSI	350
Dispatch Location	BARTLESVILLE	Tubing	0	Rate	41068

REMARKS

Pumped 15 bbl ahead, pumped 275 sks 6%owc, 2% calcium, 2% gel, 6#Koi-Seal, 10% Salt, .25#pheno seal, @ 14.5 ppG

Dropped plug displaced with 209.29 bbl Set shoe shut in. Approx 2400' cement coverage.

Mix Press 350

Displacement Press 350-800

Bump Plug 1500

AFE# 12-0101



**CONSOLIDATED**  
Oil Well Services, LLC

**REMIT TO**  
Consolidated Oil Well Services, LLC  
Dept. 970  
P.O. Box 4346  
Houston, TX 77210-4346

**MAIN OFFICE**  
P.O. Box 884  
Chanute, KS 66720  
620/431-9210 • 1-800/467-8676  
Fax 620/431-0012

INVOICE

Invoice # 249392

Invoice Date: 04/30/2012 Terms: 10/10/30,n/30

Page 1

TUG HILL OPERATING, LUG  
550 BAILEY AVENUE, SUITE 510  
FT WORTH TX 76107  
(817) 632-3400

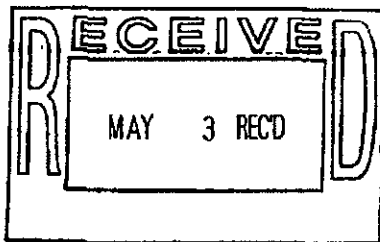
EDMONSON 1-28H  
1820000271  
04/26/12  
KS

120101  
830.18

Part Number	Description	Qty	Unit Price	Total
1126	OIL WELL CEMENT	275.00	18.8000	5170.00
1107A	PHENOSEAL (M) 40# BAG)	120.00	1.2900	154.80
1110A	KOL SEAL (50# BAG)	1650.00	.4600	759.00
1111	SODIUM CHLORIDE (GRANULA	1600.00	.3700	592.00
4409	7" RUBBER PLUG(TOP)	1.00	82.0000	82.00

Sublet Performed	Description	Total
9999-240	CASH DISCOUNT	-358.22
9999-240	CASH DISCOUNT	-675.78

Description	Hours	Unit Price	Total
T-93 TON MILEAGE DELIVERY	400.00	1.34	536.00
T-133 DOUBLE PUMP	1.00	1430.00	1430.00
T-133 EQUIPMENT MILEAGE (ONE WAY)	100.00	4.00	400.00
T-133 CASING FOOTAGE	5528.00	.22	1216.16



Amount Due 10765.71 if paid after 05/30/2012

Parts:	6757.80	Freight:	.00	Tax:	383.18	AR	9689.14
Labor:	.00	Misc:	.00	Total:	9689.14		
Sublt:	-1034.00	Supplies:	.00	Change:	.00		

Signed \_\_\_\_\_

Date \_\_\_\_\_

BARTLESVILLE, OK  
918/338-0808

EL DORADO, KS  
316/322-7022

EUREKA, KS  
620/563-7664

PONCA CITY, OK  
580/762-2303

OAKLEY, KS  
785/672-2227

OTTAWA, KS  
785/242-4044

THAYER, KS  
620/839-5269

GILLETTE, WY  
307/686-4914

# ALLIED OIL & GAS SERVICES, LLC 053411

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

SERVICE POINT:  
Liberal KS

DATE <u>5-11-12</u>	SEC.	TWP.	RANGE	CALLED OUT	ON LOCATION <u>11:30A.m</u>	JOB START <u>7:00</u>	JOB FINISH <u>10:00</u>
Edmore Station LEASE	WELL # <u>1-2814</u>		LOCATION <u>N. Protection ks.</u>		COUNTY <u>Comanche</u>	STATE <u>KS.</u>	
OLD OR (NEW) (Circle one)							

CONTRACTOR \_\_\_\_\_ OWNER Tug Hill

TYPE OF JOB liner

HOLE SIZE 6 1/8 T.D. 968.5 feet

CASING SIZE 4 1/2 11.6 DEPTH 968.3 feet

TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_

DRILL PIPE 4" DEPTH 5332 feet

TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_

PRES. MAX 1900 MINIMUM \_\_\_\_\_

MEAS. LINE \_\_\_\_\_ SHOE JOINT \_\_\_\_\_

CEMENT LEFT IN CSG. \_\_\_\_\_

PERFS. \_\_\_\_\_

DISPLACEMENT 119 BB

EQUIPMENT \_\_\_\_\_

PUMP TRUCK CEMENTER R. Chavez / B Ryan

# 531/541 HELPER Cesar P.

BULK TRUCK \_\_\_\_\_

# 457/251 DRIVER Vicente Torres

BULK TRUCK \_\_\_\_\_

# \_\_\_\_\_ DRIVER \_\_\_\_\_

CEMENT	AMOUNT ORDERED	<u>475 sk</u>
COMMON	<u>475 'H'</u>	@ <u>19.25</u> <u>9143.75</u>
POZMIX	@	_____
GEL	@	_____
CHLORIDE	@	_____
ASC	@	_____
<u>C-20</u>	<u>44</u>	@ <u>4.40</u> <u>180.40</u>
<u>FL-160</u>	<u>446</u>	@ <u>17.20</u> <u>7671.20</u>
<u>C-41</u>	<u>66</u>	@ <u>8.90</u> <u>587.40</u>
<u>Kal Seal</u>	<u>1425</u>	@ <u>8.89</u> <u>12682.25</u>
<u>C-45</u>	<u>111</u>	@ <u>15.95</u> <u>1770.45</u>
HANDLING	<u>475</u>	@ <u>2.25</u> <u>1068.75</u>
MILEAGE	<u>819</u>	@ <u>2.35</u> <u>1924.65</u>
TOTAL		<u>23614.85</u>

REMARKS:

RECEIVED

MAY 22 2012

CHARGE TO: Tug Hill

STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

SERVICE

DEPTH OF JOB	<u>968.5 feet</u>	
PUMP TRUCK CHARGE	<u>4290.00</u>	
EXTRA FOOTAGE	@ _____	
MILEAGE <u>Hay</u>	<u>39</u> @ <u>7.00</u> <u>2745.00</u>	
MANIFOLD	@ _____	
<u>high Udon</u>	<u>35</u> @ <u>4.00</u> <u>140.00</u>	
TOTAL		<u>41675.00</u>

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.

PLUG & FLOAT EQUIPMENT

4 Hour Waiting Time

No CHARGE

TOTAL \_\_\_\_\_

PRINTED NAME Jim Quisenberry

SIGNATURE Jim Quisenberry

AFE: 12-0101

SALES TAX (if Any) \_\_\_\_\_

TOTAL CHARGES 28289.85

DISCOUNT 18,400.24 IF PAID IN 30 DAYS

Well Name: Edmonston 1-28H

Contractor/Rig: Patterson-UTI 421

State: KS

County: Comanche

SHL: 200 FSL & 660 FEL

Township: 33S

As Run

GL Elev: 1967 KB: 23 KB Elev:

BHL: 330' FNL & 660' FEL

AFE: 12-0101

Permit/API Number: 15-033-21618-01-00

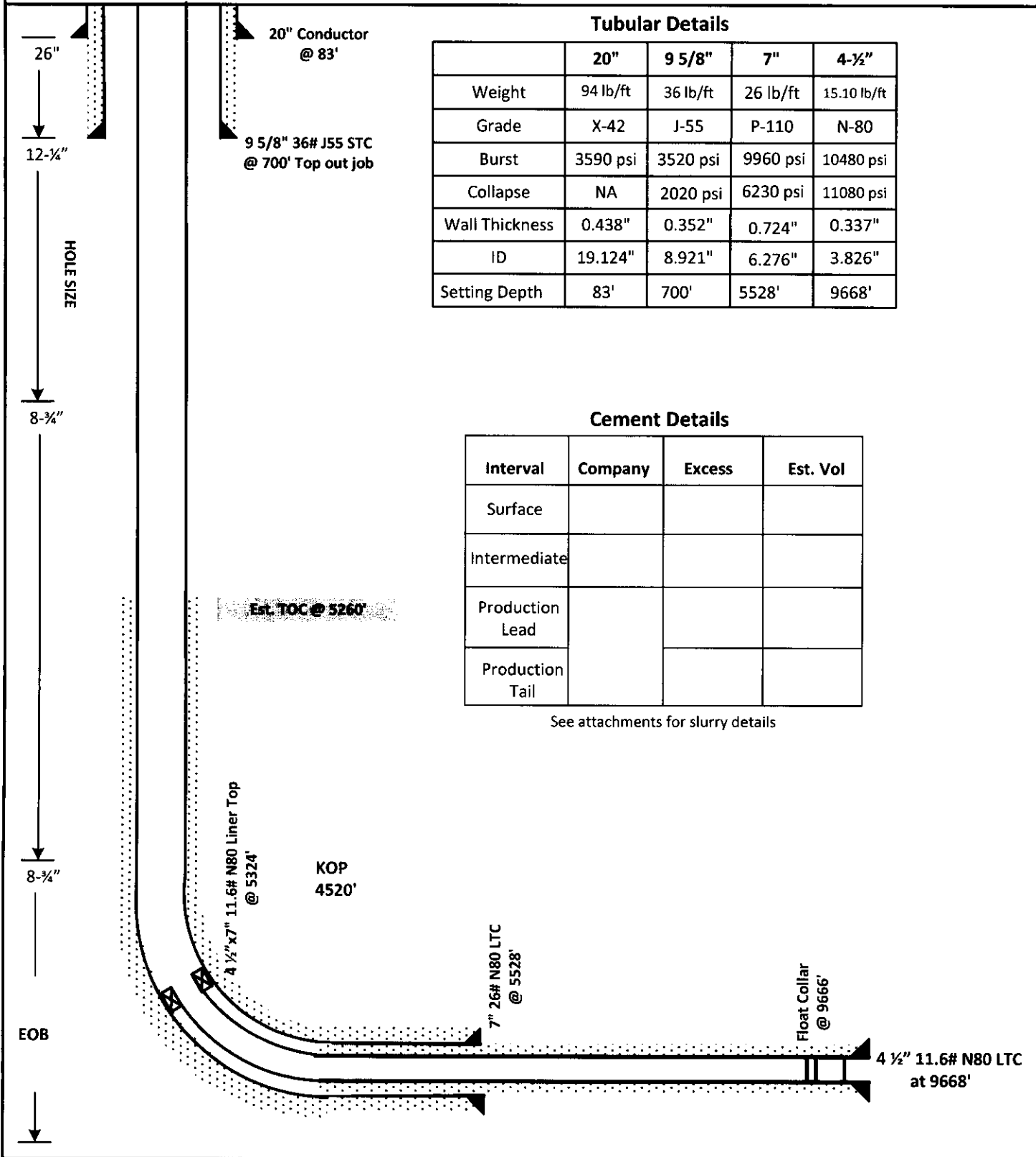
Tubular Details

	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	83'	700'	5528'	9668'

Cement Details

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

See attachments for slurry details







## SURVEY CALCULATION PROGRAM

ctrl-shift-I = Insert Survey  
ctrl-shift-D = Delete Survey

Minimum Curvature

File:

<b>OIL &amp; GAS CO.:</b>		Tug Hill			<b>Target Information</b>				<b>VS Referenced to Offset from Surface</b>				
<b>WELL:</b>		Edmonston 1-28H			<b>TARGET TVD:</b>		5096.85		<b>NORTH/SOUTH:</b>		0.00		
<b>COUNTY / STATE:</b>		Comanche/KS			<b>TARGET INCL:</b>		91.00		<b>EAST/WEST:</b>		0.00		
<b>RIG:</b>		Patterson #421			<b>TARGET AZM:</b>		1.40		(Enter 0' N and 0' E for Surface)				
<b>MS Guidance Job #:</b>		DDOK-120298	<b>MS Directional Job #:</b>		DDOK-120298								
<b>SURVEY COMPANY:</b>			<b>DIRECTIONAL COMPANY:</b>			<b>PROPOSED DIRECTION:</b>		1.40		<b>MAG-DEC. / TOTAL CORR.(+/-):</b>		6.15	
MS Guidance			MS Directional					<b>REFERENCED TO:</b>		Grid North			
<b>MWD SPECIALIST(S):</b>			<b>DIRECTIONAL DRILLER(S):</b>			<b>COMMENTS:</b>							
J. Kernan			C. Pullin			Final Survey PBHL							
S. Smith			W. Crowell										

SVY	MD	INC	TRUE AZM	TEMP °F	Course Length	TVD	N-S	E-W	Surface Vert Sect	CLOSURE		DLS/ 100	BUR/ 100'	Target Calculations			
										DIST	DIR			TVD AT 0' V. SEC.	RIGHT(+) LEFT(-)	ABOVE (+) BELOW (-)	
Tie In	0	0.00	0.00	0.0		0.00	0.00	0.00									
1	700	1.10	207.70	0.0	700	699.96	-5.95	-3.12	-6.02	6.72	207.70	0.16	0.16	699.85	-2.98	4397.00	
2	799	0.20	213.10	0.0	99	798.95	-6.94	-3.66	-7.02	7.84	207.82	0.91	-0.91	798.83	-3.49	4298.02	
3	1271	0.40	282.40	0.0	472	1270.94	-7.27	-5.72	-7.41	9.25	218.18	0.08	0.04	1270.81	-5.54	3826.04	
4	1745	0.70	293.60	0.0	474	1744.92	-5.76	-9.99	-6.00	11.53	240.04	0.07	0.06	1744.82	-9.84	3352.03	
5	2216	0.70	286.00	0.0	471	2215.89	-3.81	-15.39	-4.19	15.86	256.09	0.02	0.00	2215.81	-15.29	2881.04	
6	2689	0.60	346.20	0.0	473	2688.86	-0.61	-18.76	-1.07	18.77	268.14	0.14	-0.02	2688.84	-18.74	2408.01	
7	2973	0.50	4.40	78.3	284	2972.85	2.07	-19.02	1.60	19.13	276.21	0.07	-0.04	2972.88	-19.06	2123.97	
8	3068	0.60	359.80	87.2	95	3067.84	2.98	-18.99	2.51	19.22	278.92	0.11	0.11	3067.89	-19.05	2028.96	
9	3162	0.60	37.00	95.3	94	3161.84	3.86	-18.69	3.41	19.09	281.68	0.41	0.00	3161.90	-18.78	1934.95	
10	3257	0.70	26.10	98.9	95	3256.83	4.78	-18.14	4.34	18.76	284.77	0.17	0.11	3256.91	-18.25	1839.94	
11	3351	0.40	358.50	98.9	94	3350.83	5.63	-17.89	5.19	18.76	287.46	0.42	-0.32	3350.92	-18.03	1745.93	
12	3446	0.90	16.30	98.9	95	3445.82	6.67	-17.69	6.24	18.91	290.67	0.56	0.53	3445.93	-17.85	1650.92	
13	3541	0.50	40.00	99.8	95	3540.82	7.71	-17.22	7.29	18.86	294.12	0.51	-0.42	3540.94	-17.40	1555.91	
14	3635	0.50	37.70	99.8	94	3634.81	8.35	-16.70	7.94	18.67	296.55	0.02	0.00	3634.95	-16.90	1461.90	
15	3730	0.80	32.50	99.8	95	3729.81	9.23	-16.09	8.84	18.55	299.85	0.32	0.32	3729.96	-16.31	1366.89	
16	3826	0.80	32.90	101.6	96	3825.80	10.36	-15.37	9.98	18.54	303.99	0.01	0.00	3825.97	-15.62	1270.88	
17	3920	0.50	43.00	104.3	94	3919.79	11.21	-14.73	10.85	18.51	307.27	0.34	-0.32	3919.98	-15.00	1176.87	
18	4016	0.90	41.60	106.1	96	4015.78	12.08	-13.95	11.74	18.45	310.90	0.42	0.42	4015.99	-14.24	1080.86	
19	4110	0.70	33.40	107.0	94	4109.77	13.11	-13.14	12.79	18.57	314.94	0.24	-0.21	4110.00	-13.46	986.85	
20	4205	1.10	20.40	109.6	95	4204.76	14.45	-12.50	14.14	19.11	319.14	0.47	0.42	4205.01	-12.85	891.84	
21	4300	0.80	41.40	108.7	95	4299.75	15.81	-11.75	15.51	19.69	323.38	0.48	-0.32	4300.02	-12.13	796.83	

SVY	MD	INC	TRUE AZM	TEMP °F	Course Length	TVD	N-S	E-W	Surface Vert Sect	CLOSURE		DLS/ 100	BUR/ 100'	Target Calculations		
										DIST	DIR			TVD AT 0' V. SEC.	RIGHT(+) LEFT(-)	ABOVE (+) BELOW (-)
22	4395	0.50	150.00	108.7	95	4394.75	15.94	-11.10	15.67	19.43	325.15	1.13	-0.32	4395.02	-11.49	701.83
23	4489	0.70	205.20	111.4	94	4488.74	15.07	-11.14	14.79	18.74	323.53	0.62	0.21	4489.00	-11.51	607.85
24	4597	2.20	6.90	98.9	108	4596.72	16.53	-11.17	16.25	19.95	325.95	2.66	1.39	4597.00	-11.57	499.85
25	4629	5.90	11.50	100.7	32	4628.63	18.75	-10.77	18.48	21.63	330.13	11.60	11.56	4628.96	-11.23	467.89
26	4661	8.40	10.20	100.7	32	4660.38	22.67	-10.03	22.41	24.79	336.13	7.83	7.81	4660.77	-10.58	436.08
27	4693	11.20	7.30	100.7	32	4691.91	28.05	-9.22	27.82	29.53	341.80	8.88	8.75	4692.40	-9.90	404.45
28	4725	14.30	7.30	100.7	32	4723.12	35.05	-8.32	34.84	36.03	346.64	9.69	9.69	4723.73	-9.18	373.12
29	4756	17.60	6.90	105.2	31	4752.92	43.51	-7.27	43.32	44.11	350.51	10.65	10.65	4753.68	-8.33	343.17
30	4788	21.00	5.80	104.3	32	4783.12	54.02	-6.11	53.85	54.36	353.54	10.69	10.63	4784.06	-7.43	312.79
31	4819	24.80	5.20	107.0	31	4811.67	66.02	-4.96	65.88	66.21	355.70	12.28	12.26	4812.82	-6.57	284.03
32	4851	28.70	3.50	107.0	32	4840.24	80.38	-3.88	80.26	80.47	357.23	12.42	12.19	4841.64	-5.85	255.21
33	4883	32.60	1.60	107.8	32	4867.77	96.67	-3.17	96.57	96.73	358.12	12.56	12.19	4869.45	-5.53	227.40
34	4914	36.40	0.80	107.8	31	4893.31	114.23	-2.81	114.12	114.26	358.59	12.34	12.26	4895.30	-5.60	201.55
35	4946	40.60	1.10	107.8	32	4918.35	134.14	-2.48	134.04	134.16	358.94	13.14	13.13	4920.69	-5.76	176.16
36	4977	44.50	1.90	109.6	31	4941.18	155.09	-1.92	155.00	155.10	359.29	12.70	12.58	4943.89	-5.71	152.96
37	5009	49.00	2.50	107.8	32	4963.10	178.37	-1.03	178.30	178.38	359.67	14.13	14.06	4966.21	-5.38	130.64
38	5041	53.40	2.90	109.6	32	4983.15	203.28	0.15	203.22	203.28	0.04	13.78	13.75	4986.69	-4.81	110.16
39	5073	57.20	3.30	109.6	32	5001.36	229.54	1.58	229.51	229.55	0.39	11.92	11.88	5005.37	-4.03	91.48
40	5105	59.10	3.10	111.4	32	5018.25	256.68	3.09	256.68	256.70	0.69	5.96	5.94	5022.73	-3.18	74.12
41	5136	59.40	2.90	112.3	31	5034.10	283.29	4.49	283.31	283.32	0.91	1.12	0.97	5039.04	-2.44	57.81
42	5168	59.20	2.90	112.3	32	5050.43	310.77	5.88	310.82	310.82	1.08	0.63	-0.62	5055.86	-1.72	40.99
43	5199	58.80	2.80	113.2	31	5066.40	337.31	7.20	337.38	337.38	1.22	1.32	-1.29	5072.29	-1.04	24.56
44	5231	59.40	2.40	115.0	32	5082.83	364.74	8.45	364.83	364.83	1.33	2.16	1.88	5089.20	-0.47	7.65
45	5263	62.50	1.50	115.9	32	5098.37	392.69	9.39	392.80	392.80	1.37	9.99	9.69	5105.23	-0.20	-8.38
46	5294	66.90	0.80	115.9	31	5111.62	420.70	9.95	420.82	420.82	1.36	14.34	14.19	5118.96	-0.33	-22.11
47	5326	70.90	1.40	117.7	32	5123.13	450.55	10.53	450.67	450.67	1.34	12.62	12.50	5131.00	-0.48	-34.15
48	5357	74.30	2.40	117.7	31	5132.40	480.11	11.51	480.25	480.25	1.37	11.39	10.97	5140.78	-0.22	-43.93
49	5389	77.20	2.90	120.4	32	5140.28	511.09	12.95	511.25	511.25	1.45	9.19	9.06	5149.20	0.46	-52.35
50	5421	79.80	2.80	120.4	32	5146.66	542.40	14.51	542.60	542.60	1.53	8.13	8.12	5156.13	1.25	-59.28
51	5453	82.90	2.40	123.1	32	5151.47	574.00	15.94	574.22	574.22	1.59	9.77	9.69	5161.49	1.91	-64.64
52	5485	85.90	2.40	124.9	32	5154.59	605.82	17.27	606.06	606.06	1.63	9.38	9.38	5165.17	2.47	-68.32
53	5516	88.90	2.20	125.8	31	5156.00	636.76	18.52	637.02	637.03	1.67	9.70	9.68	5167.12	2.95	-70.27
54	5602	91.30	1.50	109.6	86	5155.85	722.71	21.29	723.01	723.02	1.69	2.91	2.79	5168.47	3.63	-71.62
55	5696	91.90	0.90	109.6	94	5153.22	816.65	23.26	816.97	816.98	1.63	0.90	0.64	5167.48	3.30	-70.63
56	5791	91.20	0.80	110.5	95	5150.65	911.60	24.67	911.93	911.94	1.55	0.74	-0.74	5166.57	2.39	-69.72
57	5885	91.10	1.00	113.2	94	5148.77	1005.57	26.14	1005.91	1005.91	1.49	0.24	-0.11	5166.33	1.57	-69.48

SVY	MD	INC	TRUE AZM	TEMP °F										Target Calculations		
					Course		Surface		CLOSURE		DLS/ 100	BUR/ 100'	TVD AT 0'	RIGHT(+)	ABOVE (+)	
					Length	TVD	N-S	E-W	Vert Sect	DIST			DIR	V. SEC.	LEFT(-)	BELOW (-)
58	5980	91.10	0.80	114.1	95	5146.94	1100.54	27.64	1100.89	1100.89	1.44	0.21	0.00	5166.16	0.74	-69.31
59	6075	91.70	0.10	115.0	95	5144.62	1195.51	28.38	1195.85	1195.85	1.36	0.97	0.63	5165.50	-0.83	-68.65
60	6170	90.80	0.50	113.2	95	5142.55	1290.48	28.88	1290.80	1290.81	1.28	1.04	-0.95	5165.08	-2.66	-68.23
61	6265	91.60	0.90	112.3	95	5140.56	1385.46	30.04	1385.78	1385.78	1.24	0.94	0.84	5164.75	-3.82	-67.90
62	6360	91.10	359.80	111.4	95	5138.32	1480.43	30.62	1480.73	1480.74	1.18	1.27	-0.53	5164.17	-5.56	-67.32
63	6456	92.00	0.80	112.3	96	5135.73	1576.39	31.12	1576.68	1576.69	1.13	1.40	0.94	5163.25	-7.40	-66.40
64	6550	91.30	1.40	113.2	94	5133.02	1670.33	32.93	1670.64	1670.65	1.13	0.98	-0.74	5162.18	-7.89	-65.33
65	6645	90.00	2.30	113.5	95	5131.94	1765.27	35.99	1765.62	1765.64	1.17	1.66	-1.37	5162.76	-7.15	-65.91
66	6740	90.80	2.70	115.9	95	5131.28	1860.18	40.14	1860.60	1860.61	1.24	0.94	0.84	5163.75	-5.32	-66.90
67	6835	89.90	0.80	115.9	95	5130.70	1955.13	43.04	1955.59	1955.60	1.26	2.21	-0.95	5164.83	-4.74	-67.98
68	6931	90.50	0.80	114.5	96	5130.36	2051.12	44.38	2051.59	2051.60	1.24	0.63	0.62	5166.17	-5.75	-69.32
69	7026	90.70	1.20	113.6	95	5129.37	2146.10	46.04	2146.58	2146.59	1.23	0.47	0.21	5166.84	-6.41	-69.99
70	7120	91.10	0.40	111.8	94	5127.89	2240.07	47.35	2240.56	2240.57	1.21	0.95	0.43	5167.00	-7.40	-70.15
71	7216	92.10	0.40	110.9	96	5125.21	2336.03	48.02	2336.51	2336.53	1.18	1.04	1.04	5165.99	-9.07	-69.14
72	7311	92.30	359.80	92.3	95	5121.56	2430.96	48.18	2431.41	2431.44	1.14	0.67	0.21	5164.00	-11.22	-67.15
73	7406	91.70	0.40	98.3	95	5118.25	2525.90	48.35	2526.33	2526.37	1.10	0.89	-0.63	5162.35	-13.38	-65.50
74	7501	89.80	1.10	96.8	95	5117.00	2620.88	49.59	2621.31	2621.35	1.08	2.13	-2.00	5162.76	-14.46	-65.91
75	7596	90.20	1.10	98.6	95	5117.00	2715.86	51.42	2716.31	2716.35	1.08	0.42	0.42	5164.42	-14.95	-67.57
76	7691	88.80	2.70	100.4	95	5117.83	2810.80	54.57	2811.30	2811.33	1.11	2.24	-1.47	5166.91	-14.12	-70.06
77	7787	89.60	2.30	101.0	96	5119.17	2906.70	58.75	2907.27	2907.30	1.16	0.93	0.83	5169.92	-12.28	-73.07
78	7883	91.10	1.40	101.9	96	5118.59	3002.65	61.85	3003.26	3003.28	1.18	1.82	1.56	5171.01	-11.53	-74.16
79	7977	90.30	2.80	101.9	94	5117.44	3096.57	65.30	3097.24	3097.26	1.21	1.72	-0.85	5171.50	-10.38	-74.65
80	8072	91.10	1.80	102.8	95	5116.28	3191.49	69.11	3192.22	3192.24	1.24	1.35	0.84	5172.00	-8.89	-75.15
81	8168	92.20	1.70	103.7	96	5113.51	3287.40	72.04	3288.18	3288.19	1.26	1.15	1.15	5170.91	-8.30	-74.06
82	8264	91.80	3.30	103.7	96	5110.16	3383.25	76.22	3384.10	3384.11	1.29	1.72	-0.42	5169.23	-6.46	-72.38
83	8359	92.80	3.20	104.6	95	5106.35	3478.02	81.61	3478.97	3478.97	1.34	1.06	1.05	5167.08	-3.39	-70.23
84	8371	93.20	3.00	110.9	12	5105.72	3489.98	82.25	3490.95	3490.95	1.35	3.73	3.33	5166.66	-3.04	-69.81
85	8466	91.80	3.20	110.0	95	5101.58	3584.75	87.39	3585.82	3585.82	1.40	1.49	-1.47	5164.17	-0.22	-67.32
86	8561	92.40	3.10	111.8	95	5098.10	3679.54	92.60	3680.71	3680.71	1.44	0.64	0.63	5162.35	2.68	-65.50
87	8656	92.40	2.90	110.9	95	5094.12	3774.33	97.57	3775.59	3775.59	1.48	0.21	0.00	5160.02	5.33	-63.17
88	8752	89.50	2.20	113.6	96	5092.53	3870.21	101.84	3871.54	3871.55	1.51	3.11	-3.02	5160.11	7.25	-63.26
89	8848	89.50	2.30	115.4	96	5093.37	3966.13	105.61	3967.53	3967.54	1.53	0.10	0.00	5162.62	8.68	-65.77
90	8943	89.50	0.30	115.4	95	5094.20	4061.10	107.76	4062.52	4062.53	1.52	2.11	0.00	5165.11	8.51	-68.26
91	9037	90.20	359.80	117.2	94	5094.44	4155.10	107.85	4156.49	4156.50	1.49	0.92	0.74	5166.99	6.30	-70.14
92	9133	92.60	359.40	110.9	96	5092.10	4251.06	107.18	4252.41	4252.41	1.44	2.53	2.50	5166.32	3.28	-69.47

SVY	MD	INC	TRUE AZM	TEMP °F	Course Length	TVD	N-S	E-W	Surface Vert Sect	CLOSURE DIST	DIR	DLS/ 100	BUR/ 100'	Target Calculations		
														TVD AT 0' V. SEC.	RIGHT(+) LEFT(-)	ABOVE (+) BELOW (-)
93	9228	93.50	359.50	116.6	95	5087.04	4345.92	106.27	4347.22	4347.22	1.40	0.95	0.95	5162.92	0.05	-66.07
94	9323	91.70	0.10	115.4	95	5082.73	4440.82	105.93	4442.08	4442.08	1.37	2.00	-1.89	5160.27	-2.60	-63.42
95	9394	90.90	1.20	112.7	71	5081.12	4511.79	106.74	4513.06	4513.06	1.36	1.92	-1.13	5159.90	-3.52	-63.05
96	9490	92.20	359.80	113.6	96	5078.52	4607.75	107.58	4609.00	4609.01	1.34	1.99	1.35	5158.98	-5.03	-62.13
97	9585	93.80	359.00	113.6	95	5073.55	4702.61	106.59	4703.81	4703.82	1.30	1.88	1.68	5155.66	-8.34	-58.81
98	9633	94.70	359.20	115.4	48	5070.00	4750.47	105.83	4751.64	4751.65	1.28	1.92	1.88	5152.94	-10.26	-56.09
99	9685	94.70	359.20	115.4	52	5065.73	4802.29	105.11	4803.43	4803.44	1.25	0.00	0.00	5149.58	-12.25	-52.73



Phone: 580-254-3216  
 Fax: 580-254-3279  
 P.O.Box 609  
 Woodward, OK 73802

INV #2974  
 2408

WORK ORDER #

RIG#: 471 Patterson	DATE OF ORDER:
COMPANY NAME: Tughill Operating	STARTING DATE: <del>2-29-12</del> 2-29-12
LEASE NAME: Edmondson #115H	ORDER TAKEN BY:
LEGAL DESCRIPTION:	ORDER BY:
	PHONE #:

DIRECTIONS:

Face Rig	N	E	S	W	Pipe	Fuel - Rig:
Rat Hole					Note	Fuel - Vehicle:
Mouse Hole 75'					Cement	Credit Card Expenses:
Conductor 20"					Mud Truck	
Cellar 7x7					Pump Truck	
Tin Horn ✓					Welding	

AF 110

- Drilled ~~80~~ 80' of 30" Conductor Hole
  - Drilled 7' of 84" Hole & Set 7 x 7 Tinhorn Cellar
  - Furnished Backhoe
  - Furnished 80' of 20" Conductor Pipe
  - Furnished Shucks \_\_\_\_\_ Rat \_\_\_\_\_ Mouse
  - Furnished Mud, Water, & Trucking
  - Furnished Welder & Materials
  - Furnished Grout
  - Furnished Grout Pump
  - Drilled Rat & Mouse Holes
  - Rock Time \_\_\_\_\_ Hrs
- 75' of 16" pipe for mouse hole

TOTAL BID \$21,100.00

STATE SALES TAX \_\_\_\_\_ %

COUNTY SALES TAX \_\_\_\_\_ %

INSURANCE SURCHARGE \_\_\_\_\_

FUEL SURCHARGE \_\_\_\_\_

TOTAL INVOICE \$21,100.00



# Daily Drilling Report

11/12/2012 1:49 PM

## Well Information

Well Edmonston 1-28H		AFE Number 12-0101		Report Date 3/2/2012	
Country USA	State KS	County Comanche	Field Wildcat		Lease 200' FSL, 660' FEL
API / IPO UWI Comanche		Orig KB Elev (ft)		Ground Elevation (ft) 1967.0	KB-GRD (ft) -1967.0
Qtr/Qtr, Block, Sec, Town, Range .28,31S,20W			Spud Date 4/26/2012		Rig Release Date 5/12/2012

## Daily Operations

24 Hour Summary  
Crew to location. Dig down install cellar ring. Drill 26" hole F/ 6' T/ 83'. Damp @ 25' mud up. Back in red bed @ 35'. Run 20" Conductor T/ 83'. Pull vacuum and grout in backside Conductor. Wash up. Leave rig over hole holding pipe. SDFN. WOC.

24 Hr Forecast  
Drill Mouse Hole

Operations At Report Time  
WOC

Daily Total (Cost) \$16997.00	Cum Daily Total (cost) \$177333.53	Total AFE (Cost) \$0.00
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## Daily Contacts

Wellsite Supervisor Jay Lewis	Supervisor Phone 570-560-2611
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## Time Log

## Mud Checks

Type	Depth (ftKB)	Source	Density (lb/gal)	Funnel Viscosity (s/qt)	Filtrate (mL/30min)			
HTHP Filtrate (ml/30min)	Mud Lost Hole (bbl)	Mud Lost (Surf) (bbl)		PV(cp)	YP (lb/100ft <sup>2</sup> ) pH			
Vis 6rpm	Lime (lb/bbl)	Gel 30 min (lb/100ft <sup>2</sup> )	Gel 30 min (lb/100ft <sup>2</sup> )	Gel 10 sec (lb/100ft <sup>2</sup> )	Gel 10 min (lb/100ft <sup>2</sup> )			
Calcium (mg/L)	Ca CL (wt%)	Solids (%)	LGS (%)	Sand (%)	Percent Oil (%)	Oil Water Ratio	Electric Stab (V)	MBT (lb/bbl)

## Bit Record

## BHA

## Drilling Parameters

Start Depth (ftKB)		End Depth (ftKB)	Cum Depth Drilled (ft) 0	Total ROP (ft/hr) NaN	Drilling Torque	
Motor RPM (rpm)	RPM (rpm)	OGas Inj (ft <sup>3</sup> /min)	Drilling Time (hr)	Rotating Time (hr)	Circulation Time (hr)	
Cum Drilling Time (hr)		SPP (psi)	Flow Rate (gpm)	TFA (incl Noz) (in <sup>2</sup> )	Weight on Bit (lbf)	String Wt (lbf)

## Pump Operations

## Hydraulic Data

## Survey Data

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

November 12, 2012

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

Re: ACO1  
API 15-033-21618-01-00  
Edmonston 1-28H  
SE/4 Sec.28-31S-20W  
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,  
Win

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



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November 13, 2012

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550 BAILEY AVE, STE 510  
FT. WORTH, TX 76107

Re: ACO-1  
API 15-033-21618-01-00  
Edmonston 1-28H  
SE/4 Sec.28-31S-20W  
Comanche County, Kansas

Dear Win:

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 04/15/2012 and the ACO-1 was received on November 12, 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