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CONFIDENTIAL

Side Two

Operator Name: O'BRIEN ENERGY RESOURCES CORP.

Lease Name: HULL

Sec. 12 Twp. 34 S. R. 30 East West

County: MEADE

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 copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	HEEBNER	4493'	-1827'
Electric Log Run <i>(Submit Copy)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	LANSING	4642'	-1976'
List All E. Logs Run:		MARMATON	5315'	-2649'
ARRAY INDUCTION, COMPENSATED NEUTRON/ DENSITY, MICROLOG, BOND LOG		NOVINGER	5383'	-2717'
		MORROW	5860'	-3194'
		MISSISSIPPI CHESTER	5947'	-3281'
		STE GENEVIEVE	6198'	-3532'

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
CONDUCTOR	32"	20"		60'			
SURFACE	12 1/4"	8 5/8" J55	24#/FT.	1543'	A-CON/PREMIUM	365/150	a-con w/3% CaCl
PRODUCTION	7 7/8"	4 1/2" J55	10.5#/FT.	6322'	AA2/PREMIUM	160/50	

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
2	5976'-5994', Cast Iron Bridge Plug Set @ 5940'	Acidize w/ 3000gals NEFE 15% HCL, 50 ball sealers	5976'-5994'
2	5898'-5910'	Acidize w/1500gals FE 7.5% HCL, 60 ball sealers	5898'-5910'
2	5886'-5894'	Frac w/32,800# 20/40 mesh brady sand, 910bbls gelled wtr	5886'-5910'

TUBING RECORD:	Size: 2 3/8	Set At: 5860'	Packer At: 5855'	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
Date of First, Resumed Production, SWD or Enhr. 7/15/2010	Producing Method: <input checked="" type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio Gravity
		1500	0	1500-0

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input checked="" 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 <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: 5898'-5910' 5886'-5894'
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PAGE 1 of 1	CUST NO 1002969	INVOICE DATE 04/29/2010
INVOICE NUMBER 1717 - 90302450		

Liberal (620) 624-2277
 B O'BRIEN ENERGY RESOURCES
 I 18 CONGRESS ST SUITE 207
 L PORTSMOUTH
 L NH US 03801
 T
 O ATTN:

J LEASE NAME Hull #1-12
O LOCATION
B COUNTY Meade
S STATE KS
I JOB DESCRIPTION Cement-New Well Casing/Pi
T JOB CONTACT
E

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PO
 ✓ 25/22
 5/4/2010

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
40176623	30464		Net - 30 days	05/29/2010
For Service Dates: 04/28/2010 to 04/28/2010 0040176623 171700712A Cement-New Well Casing/Pi 04/28/2010 8 5/8" Surface A-Con Blend 365.00 EA 10.99 4,012.26 T Premium Plus Cement 150.00 EA 9.63 1,444.98 T Calcium Chloride 1,314.00 EA 0.62 815.39 T Celloflake 220.00 EA 2.19 481.07 T C-51 69.00 EA 14.77 1,019.46 T Guide Shoe - Regular - 8 5/8" 1.00 EA 224.58 224.58 Top Rubber Cement Plug - 8 5/8" 1.00 EA 132.97 132.97 Centralizer - 8 5/8" 4.00 EA 85.70 342.78 Basket - 8 5/8" 1.00 EA 186.16 186.16 Insert Float Valve - 8 5/8" 1.00 EA 165.48 165.48 Heavy Equipment Mileage 90.00 MI 4.14 372.33 Blending & Mixing Service Charge 515.00 MI 0.83 426.11 Proppant and Bulk Delivery Charge 728.00 MI 0.95 688.39 Depth Charge; 1001' - 2000' 1.00 EA 886.49 886.49 Plug Container Charge 1.00 EA 147.75 147.75 Car, Pickup or Van Mileage 30.00 MI 2.51 75.35 Service Supervisor Charge 1.00 HR 103.42 103.42				

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PLEASE REMIT TO: BASIC ENERGY SERVICES, LP PO BOX 841903 DALLAS, TX 75284-1903	SEND OTHER CORRESPONDENCE TO: BASIC ENERGY SERVICES, LP PO BOX 10460 MIDLAND, TX 79702	SUB TOTAL 11,524.97 TAX 489.71 INVOICE TOTAL 12,014.68
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BASICSM
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

1700 S. Country Estates Rd.
P.O. Box 129
Liberal, Kansas 67905
Phone 620-624-2277

FIELD SERVICE TICKET
1717 00712 A

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DATE _____ TICKET NO. _____

DATE OF JOB	4-28-10	DISTRICT	Liberal	JUL 16	NEW WELL <input checked="" type="checkbox"/>	OLD WELL <input type="checkbox"/>	PROD <input type="checkbox"/>	INJ <input type="checkbox"/>	WDW <input type="checkbox"/>	CUSTOMER ORDER NO.:
CUSTOMER	Obrien Energy			LEASE	Hull				WELL NO.	1-12
ADDRESS				COUNTY	Meade		STATE	KS		
CITY				STATE						
AUTHORIZED BY	Jerry Bennett			SERVICE CREW	Accinger/McCann					
				JOB TYPE:	Z 42 8 1/2 Surface					
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	4-28-10	DATE	AM	TIME
30464	5					ARRIVED AT JOB	4-28-10		PM	18:30
19919	5					START OPERATION	4-28-10		AM	23:00
30463	5					FINISH OPERATION	4-29-10		PM	0:20
19566	5					RELEASED	4-29-10		AM	0:45
14355	5					MILES FROM STATION TO WELL	30			
14284	5									

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

JUL 19 2010

SIGNED *Roger Pearson*
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CL101	A-Con Blend	SK	365		6789.00
CL110	Premium Plus Cement	SK	150		2445.00
CC109	Calcium Chloride	lb	1314		1379.70
CC102	Celloflake	lb	220		814.00
CC130	C-51	lb	69		1725.00
CF253	Guide Shoe 8 1/2	EA	1		380.00
CF105	Top Rubber Plug 8 1/2	EA	1		225.00
CF1773	Centralizer 2 1/2 X 1 1/4	EA	4		580.00
CF1403	8 1/2 Basket	EA	1		315.00
CF1453	Flapper Type Insert 8 1/2	EA	1		280.00
E101	Heavy Equipment Mileage	Mi	90		630.00
CF240	Blending & Mixing	SK	515		721.00
E113	Prepwork & Bulk Delivery	hr	728		1164.80
CE202	Depth Charge 1001-2001	4hrs	1		1500.00
CE504	Plug Container	Sub	1		250.00
E100	Pickup Mileage	Mi	30		127.50
5003	Service Supervisor	EA	1		175.00
SUB TOTAL					11,524.97

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$
MATERIALS	%TAX ON \$
TOTAL	

SERVICE REPRESENTATIVE *Jason Amundson*
FIELD SERVICE ORDER NO. _____

THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY *Roger Pearson*
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)



PAGE 1 of 1	CUST NO 1002969	INVOICE DATE 05/10/2010
INVOICE NUMBER 1717 - 90311071		

Liberal (620) 624-2277
 B O'BRIEN ENERGY RESOURCES
 I 18 CONGRESS ST SUITE 207
 L PORTSMOUTH
 L NH US 03801
 T
 O ATTN:

*Int. Drill
 Hull
 PJ 25222
 5/17/2010*

J LEASE NAME Hull #1-12
O LOCATION
B COUNTY Meade
S STATE KS
I JOB DESCRIPTION Cement-New Well Casing/Pi
T JOB CONTACT
R

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JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
40181042	27462		Net - 30 days	06/09/2010
For Service Dates: 05/07/2010 to 05/07/2010				
0040181042				
171700716A Cement-New Well Casing/Pi 05/07/2010 4 1/2" Longstring				
AA2 Cement	160.00	EA	9.32	1,491.23 T
Premium Cement	50.00	EA	8.19	409.68 T
Gypsum	755.00	EA	0.38	289.98 T
Salt	889.00	EA	0.26	227.63 T
C-42P	38.00	EA	4.10	155.68 T
FLA-115	91.00	EA	7.68	699.02 T
Gilsonite	800.00	EA	0.34	274.49 T
Guide Shoe - Regular - 4 1/2"	1.00	EA	115.22	115.22
Top Rubber Cement Plug - 4 1/2"	1.00	EA	40.97	40.97
Centralizer - 4 1/2"	8.00	EA	56.33	450.65
Insert Float Valve - 4 1/2"	1.00	EA	102.42	102.42
Stop Ring - 4 1/2"	1.00	EA	15.36	15.36
Mud Flush	500.00	EA	0.44	220.20 T
CC-1	8.00	EA	22.53	180.26 T
Heavy Equipment Mileage	60.00	MI	3.58	215.08
Blending & Mixing Service Charge	210.00	MI	0.72	150.56
Proppant and Bulk Delivery Charge	297.00	MI	0.82	243.35
Depth Charge; 6001' - 7000'	1.00	EA	1,659.19	1,659.19
Plug Container Charge	1.00	EA	128.02	128.02
Car, Pickup or Van Mileage	30.00	MI	2.18	65.29
Service Supervisor Charge	1.00	HR	89.62	89.62

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PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	7,223.90
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	248.73
PO BOX 841903	PO BOX 10460	INVOICE TOTAL	7,472.63
DALLAS, TX 75284-1903	MIDLAND, TX 79702		



BASICSM
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

1700 S. Country Estates Rd.
P.O. Box 129
Liberal, Kansas 67905
Phone 620-624-2277

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FIELD SERVICE TICKET
1717 00716 A

DATE _____ TICKET NO. _____

DATE OF JOB: 5-7-10	DISTRICT: Liberal	NEW WELL <input checked="" type="checkbox"/>	OLD WELL <input type="checkbox"/>	PROD <input type="checkbox"/>	INJ <input type="checkbox"/>	WDW <input type="checkbox"/>	CUSTOMER ORDER NO.:		
CUSTOMER: O'Brien Energy		LEASE: Hull		WELL NO. 1-12					
ADDRESS:		COUNTY: Meade		STATE: KS					
CITY:		STATE:		SERVICE CREW: Arrington / Cox					
AUTHORIZED BY: Jerry Bennett JRB		JOB TYPE: 242 4 1/2 Longstrins							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME
27462	5					5-7-10	5-7-10	PM	12:00
19805	5					ARRIVED AT JOB	5-7-10	AM	19:30
19802	5					START OPERATION	5-7-10	AM	22:21
						FINISH OPERATION	5-7-10	AM	23:30
						RELEASED	5-7-10	AM	23:50
						MILES FROM STATION TO WELL			30

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: Roger Pearson
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CL105	AA2 Cement	sk	160		2912 00
CL100	Premium Cement	sk	50		800 00
CC113	Gypsum	lb	755		566 25
CC111	Salt	lb	889		444 50
CC107	C-42 P	lb	38		304 00
CC124	FLA-115	lb	91		1365 00
CC201	Gilsonite	lb	800		536 00
CF250	Guide Shoe 4 1/2	EA	1		225 00
CF102	Tap Rubber Plug 4 1/2	EA	1		80 00
CF1770	Centralizer 4 1/2 X 7 7/8	EA	8		880 00
CF1450	Flapper Type Insert 4 1/2	EA	1		200 00
CF500	4 1/2 Step Ring	EA	1		30 00
CC151	Mud Flush	gal	500		430 00
C706	CC-1 KCL Substitute	gal	8		352 00
E101	Heavy Equipment Mileage	Mi	60		420 00
CE240	Blending & Mixing	sk	210		294 00
E113	Proper & Bulk Delivery	tm	297		475 20
CE207	Depth Charge 600' - 700'	4hrs	1		3240 00
CE504	Plug Container	job	1		250 00
SUB TOTAL					7223 90

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CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
TOTAL		

SERVICE REPRESENTATIVE: [Signature] THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: Roger Pearson
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO. _____

Customer <i>O'Brien Energy</i>	Lease No.	Date <i>5-7-10</i>
Lease <i>Hull</i>	Well # <i>1-12</i>	
Field Order # <i>171700716</i>	Station <i>Liberal</i>	Casing <i>4 1/2 10.5</i>
		Depth <i>6320</i>
Type Job <i>242 4 1/2 Long string</i>	Formation	County <i>Meade</i>
		State <i>KS</i>
		Legal Description <i>12-34-20</i>

PIPE DATA		PERFORATING DATA		FLUID USED	TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP
<i>4 1/2 10.5</i>				Pre Pad	Max		5 Min.
Depth <i>6320</i>	Depth	From	To	Pad	Min		10 Min.
Volume <i>99.8</i>	Volume	From	To	Frac	Avg		15 Min.
Max Press	Max Press	From	To		HHP Used		Annulus Pressure
Well Connection	Annulus Vol.	From	To	Flush	Gas Volume		Total Load
Plug Depth	Packer Depth	From	To				

Customer Representative *Roger Pearson* Station Manager *Terrey Bennett* Treater *Tasen Arrington*

Service Units	<i>27402</i>	<i>19805</i>	<i>19805</i>	<i>19820</i>					
Driver Names	<i>R. Cox</i>	<i>S. Chavez</i>	<i>B. Chavez</i>	<i>J. Arrington</i>					

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>19:30</i>					<i>On Loc.</i>
<i>19:35</i>					<i>Safety Meeting</i>
<i>19:40</i>					<i>Rizup</i>
<i>22:21</i>					<i>Test Lines to 3000 PSI</i>
<i>22:26</i>	<i>100</i>	<i>—</i>	<i>5</i>	<i>5</i>	<i>Pump H₂O Pad</i>
<i>22:28</i>	<i>100</i>	<i>—</i>	<i>12</i>	<i>5</i>	<i>Pump 500gal Mud Flush</i>
<i>22:31</i>	<i>100</i>	<i>—</i>	<i>5</i>	<i>5</i>	<i>Pump H₂O Pad</i>
<i>22:34</i>					<i>Plug R.H. MH</i>
<i>22:34</i>	<i>200</i>	<i>—</i>	<i>43</i>	<i>5</i>	<i>Pump 160 sk AAR @ 14.8</i>
<i>22:43</i>					<i>Drop Plug</i>
<i>22:47</i>	<i>50</i>	<i>—</i>	<i>49</i>	<i>5</i>	<i>Disp.</i>
<i>23:05</i>	<i>400</i>	<i>—</i>	<i>89</i>		<i>Reduce Rate</i>
<i>23:10</i>	<i>1500</i>	<i>—</i>	<i>99</i>		<i>Land Plug</i>
<i>23:15</i>	<i>0</i>	<i>—</i>	<i>10</i>	<i>2</i>	<i>Plug R.H. MH</i>
<i>23:30</i>					<i>Rig down</i>
<i>23:55</i>					<i>Leave Loc.</i>

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O'Brien Energy Resources, Inc.

HULL NO. 1-12

Section 12, T34S, R30W

Meade County, Kansas

May, 2010

Well Summary

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The O'Brien Energy Resources, Inc., Hull No. 1-12 was drill to a total depth of 6330' in the Mississippi Ste. Genevieve Formation. The closest offset was the Funk Exploration, Bender No. 1 – 1800' to the East. Formation tops from the Heebner to the Lansing came in 2' to 5' high relative to this offset. Thinning occurred and the Cherokee and Morrow ran 16' and 26' high. The Chester came in 7' high.

Several production worthy hydrocarbon shows were documented in the Chester. 5982' to 5994' consists of a Limestone: Light gray to brown, buff, mottled, microcrystalline, very chalky, clean to argillaceous, fossiliferous, carbonaceous, trace to occasional fair intercrystalline and vuggy porosity, mottled pale blue hydrocarbon fluorescence in 6% of the samples, slow streaming to bleeding cut, no stain. An 80 Unit gas kick occurred of the hotwire.

A similar show although tighter in nature and with a 220 Unit gas kick occurred from 6027' to 6031', with pale blue hydrocarbon fluorescence in about 10% of the samples. The general chalky nature of the samples could be due to bit drag as is sometimes noted with PDC bits. Thoroughly washing the samples and crushing the cuttings reveals the general nature of the lithology, although the shows are very subtle.

A 30 Unit gas increase occurred from 6246' to 6252' in the Genevieve along with a log show. No sample show was documented.

4 ½" production casing was run on the Hull No. 1-12 on 5/6/2010 for Mississippian Chester gas production.

Respectfully Submitted,



Peter Debenham

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WELL DATA

Operator: O'Brien Energy Resources, Inc., John Forma – Portsmouth, NH
Geologist: Paul Wiemann – Denver, CO

Prospect Geologist: Ed Schuett, David Ward, Denver, Land: Gordon Beamguard

Well: Hull No. 1-12

Field: Wildcat

Location: 660' FSL & 1320' FWL, Section 12, T34S, R30W, Meade County, Kansas – 22 miles SE of Meade.

Elevation: Ground Level 2654', Kelly Bushing 2666'

Contractor: Duke Drilling Rig No. 6, Type: Double jackknife, triple stand, Toolpusher Rick Schollenbarger, Drillers: Emigdio Rojas, Danny White, Mike Brewer

Company Man: Roger Pearson – Liberal, Kansas

Spud Date: 4/28/2010

Total Depth: 5/6/2010, Driller 6330', Logger 6330', Mississippi Ste. Genevieve

Casing Program: 36 joints of 8 5/8", J55, 24Lbs/ft, set at 1543'. 4 1/2" production casing to TD.

Mud Program: Mud Co./Service Mud Inc., Engineer Tony Maestas, displaced 2700' and mud up at 3800'.

Wellsite Consultant: Peter Debenham with mudlogging trailer, Call depth 4400', Box 350, Drake, CO 80515, 720/220-4860.

Samples: 20' to TD. Zones of interest saved.

Electric Logs: Weatherford, engineer Shawn Nutt, 1) Array Induction, 2) Neutron/Density, 3) Microlog

Status: 4 1/2 " production casing to TD on 5/7/10.

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WELL CHRONOLOGY

<u>6 AM</u> <u>DATE</u>	<u>DEPTH</u>	<u>FOOTAGE</u>	<u>RIG ACTIVITY</u>
4/26			Rig maintenance, scrub and paint.
4/27			Move to location and rig up rotary tools. Pump water and mix spud mud.
4/28	1543'	1543'	Mix mud and pump water. Spud in 12 1/4" surface hole to 1543'. Surveys(1/4, 3/4 deg.). Circulate and trip for surface casing. Rig up and run 36 joints of 8 5/8" casing set at 1543' and cement with 515 sacks cement.
4/29	2570'	927'	Cement and wait on cement. Nipple up BOP. Drill plug and cement an 7 7/8" hole to 2470'. Survey(1/2 deg.).
4/30	3790'	1220'	Survey(1/2 deg.). Clean suction pit and displace mud at 2700'. Lost circulation(75 bbls) at 3333'. Trip 5 stands and circulate and mix mud and LCM. Drilling.
5/1	5050'	1260'	Circulate for samples at 5013' and run 25 stand wiper trip and circulate. Drill to 5050'.
5/2	5955'	905'	Circulate for samples at 5190', 5323', 5400' and 5936'. To 5955' and drilling. Work on pump.
5/3	6111'	156'	Circulate for samples at 6022'. To 6111' and work on rotary table. Trip out and pull rotary table and ship to Great Bend for repairs. Rig repair, scrap and paint.
5/4	6111'	--	Dry watch and service rig and paint.
5/5	6111'	--	Wash and paint.
5/6	6330'TD	219'	Wait on rotary table and install same. Trip to bottom breaking circulation. Circulate on bottom and drill to 6330TD and circulate and condition mud. Drop survey(1 deg.) and trip out for logs.
5/7	TD		Trip out for logs and run same. Trip to bottom and circulate. Trip out laying down and run and cement 4 1/2" production casing to TD. Rig down.

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BIT RECORD

<u>NO.</u>	<u>MAKE</u>	<u>TYPE</u>	<u>SIZE</u>	<u>OUT</u>	<u>FOOTAGE</u>	<u>HOURS</u>
1	Veral	MXC1	12 1/4"	1543'	1543'	20 1/4
2	NYC	Q506F	7 7/8"	6330'	4787'	73 3/4

Total Rotating Hours: 94
Average: 67.34 Ft/hr

DEVIATION RECORD - degree

508' 1/4, 1543' 3/4, 2004' 1/4, 2663' 1/2, 6330' 1

MUD PROPERTIES

<u>DATE</u>	<u>DEPTH</u>	<u>WT</u>	<u>VIS</u>	<u>PV</u>	<u>YP</u>	<u>pH</u>	<u>WL</u>	<u>CL</u>	<u>LCM-LBS/BBL</u>
4/28	873'	10.1	35	5	10	7.0	n/c	100	5
4/30	3087'	9.1	34	5	10	7.0	n/c	18k	--
5/1	4478'	9.4	38	8	11	8.5	16.2	5.2k	6
5/2	5430'	9.4	50	16	19	10.0	8.8	4.5K	7
5/3	6113'	9.2	65	19	23	10.0	7.2	2.2K	4
5/4	6113'	9.2	65	20	23	9.0	8.0	2.2K	4
5/5	6113'	9.2	66	20	24	8.5	9.6	2.2K	4
5/7	6330'	9.0	60	18	22	10.0	8.0	1.9K	4

ELECTRIC LOG FORMATION TOPS- KB Elev. 2666'

<u>FORMATION</u>	<u>DEPTH</u>	<u>DATUM</u>	<u>*Funk Exploration</u>	
			<u>DATUM</u>	<u>POSITION</u>
WREF	3080'	-414'		
Council Groove	3192'	-526'		
Heebner	4493'	-1827'	-1832'	+5'
Toronto	4516'	-1850'	-1854'	+4'
Lansing	4642'	-1976'	-1978'	+2'
Kansas City	5132'	-2466'	-2478'	+12'
Marmaton	5315'	-2649'	-2694'	
Novinger	5383'	-2717'	-2728'	+11'
Cherokee	5494'	-2828'	-2844'	+16'
Morrow	5860'	-3194'	-3220'	+26'
L. Morrow LS	5932'	-3266'	-3264'	-2'
Mississippi Chester	5947'	-3281'	-3288'	+7'
Ste Genevieve	6198'	-3532'	NDE	
TD	6330'	-3664'		

*Funk Exploration, Bender No. 1, app. 1800' to the East, K.B. Elev. 2666'.

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Lithology Description

4000-4075 SHALE: Gy hard blocky waxy calcareous silty in part

4075-4110 LIMESTONE: Med to dark gray medium brown crpxln hard dense silica argillaceous to marly tight no show interbed with SHALE: Gy hard blocky calcareous

4110-4190 SHALE: Med to dark gray hard blocky calcareous silty in part occasional grdng to LIMESTONE: as above

4190-4210 LIMESTONE: Brn medium gray fine crystalline hard dense silica in part argillaceous to marly fossils oolites in part carbonaceous in part tight no fluorescence no stain or cut interbed with SHALE: Gy hard blocky calcareous

4210-4260 SHALE: Gy hard blocky calcareous

4260-4315 LIMESTONE: Med brown mottled gray biomier fine crystalline argillaceous fossils no show interbed with SHALE: Dk gray hard blocky calcareous carbonaceous mica

4315-4335 SHALE: Med to dark gray occasional black firm blocky to sbfis in part carbonaceous calcareous waxy to silty in part

4335-4390 LIMESTONE: Med brown mottled gray biomier fine crystalline argillaceous fossils no show interbed with SHALE: Dk gray hard blocky calcareous carbonaceous mica

4390-4450 SHALE: Blk dark gray to brown firm to hard blocky to sbfis waxy carbonaceous calcareous pyrite

4450-4495 SHALE: Blk dark brown firm sbfis to fissile to blocky carbonaceous calcareous interbed with LIMESTONE: Lt to medium brown to gray buff white micr fine crystalline clean to argillaceous fossils sndy in part occasional very soft and chalky occasional trace moldic and intxln porosity no fluorescence no stain or cut

4495-4515 SHALE: Blk firm sbfis to fissile carbonaceous occasional interbed with LIMESTONE: trace moldic and intxln porosity no fluorescence no stain or cut

4515-4540 LIMESTONE: Wh light brown buff medium to light mottled brown fine crystalline clean to argillaceous fossils sndy in part occasional chalky trace moldic and intxln porosity no fluorescence no stain ro cut

4540-4640 LIMESTONE: Med brown biomier micxln dense clean to argillaceous fossils poor vis porosity no fluorescence no stain or cut interbed with SHALE: Blk dark gray firm waxy to silty carbonaceous calcareous

4640-4665 LIMESTONE: Brn crpxln hard dense clean tight no show

4665-4680 LIMESTONE: Lt to medium brown micxln micsuc in part brittle clean fossils trace vis porosity no show

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4680-4690 SHALE: Blk firm sbfis carbonaceous

4690-4720 LIMESTONE: Lt to medium brown micxln micsuc brittle clean fossils oolites occasional moldic and intpart porosity trace intxln porosity no fluorescence no stain or cut

4720-4735 SHALE: Blk firm sbfis carbonaceous waxy

4735-4805 LIMESTONE: Lt to medium brown micxln micsuc brittle clean fossils oolites occasional moldic and intpart porosity trace intxln porosity no fluorescence no stain or cut with LIMESTONE: Brn crpxln hard dense clean tight no show interbed with SHALE: Blk firm fissile carbonaceous

4805-4855 LIMESTONE: Lt to medium brown micxln micsuc brittle clean fossils oolites occasional moldic and intpart porosity trace intxln porosity no fluorescence no stain or cut with LIMESTONE: Brn crpxln hard dense clean tight no show interbed with SHALE: Blk firm fissile carbonaceous

4855-4895 LIMESTONE: Dk mottled brown crpxln hard dense silica tight occasional moldic and intxln porosity no fluorescence no stain or cut

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4895-4960 SHALE: Blk very dark bn firm fissile to blocky wy carbonaceous interbed with LIMESTONE: Gy to brown crpxln hard dense silica tight no show

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4960-5020 LIMESTONE: Med to light brown buff white fine crystalline chalky in part clean silica in part fossils carbonaceous stylic tight no show with LIMESTONE: Brn crpxln dense silica tight no show

5020-5045 SHALE: Blk gray hard blocky carbonaceous calcareous interbed with LIMESTONE: Mot brown micxln micsuc in part argillaceous sbchky fossils carbonaceous stylic tight no show

5045-5105 LIMESTONE: Med to dark brown crpxln dense silica fossils pyrite tight no show trace CHRT: Brn gray translucent mlky hard crystalline pyrite

5105-5135 SHALE: Blk dark brown cholc brown firm fissile carbonaceous

5135-5170 LIMESTONE: Mot brown to gray biomicr fine crystalline hard dense argillaceous to marly fossils carbonaceous tight no show

5170-5225 LIMESTONE: Med to dark mottled brown oomicr fine crystalline brittle clean very oolites with exc oomoldic porosity no fluorescence no stain or cut occasional interbed with SHALE: Blk firm fissile carbonaceous interbed with LIMESTONE: Brn to gray mottled hard dense silica tight no show with CHRT: Brn translucent mlky white hard crystalline

5225-5280 LIMESTONE: Med to dark brown crpxln hard dense silica marly in part carbonaceous tight no show

5280-5305 SHALE: Blk dark brown to gray cholc brown firm sbfis carbonaceous calcareous interbed with LIMESTONE: Dk brown to gray fine crystalline dense silica argillaceous to marly in part tight no show

5305-5315 SHALE: Blk very dark brown firm sbfis carbonaceous

5315-5385 LIMESTONE: Lt brown buff white micxln micsuc brittle clean very chalky in part clean

oomoldic and intln porosity no fluorescence no stain or cut interbed with LIMESTONE: Brn crpxln hard dense very silica tight no show with interbed SHALE: as above

5385-5430 LIMESTONE: Lt brown micxln micsuc in part brittle clean fossils sbchky trace intxln porosity no show

5430-5460 SHALE: Blk dark brown to gray cholc brown firm sbfis carbonaceous calcareous interbed with LIMESTONE:Dk brown to gray fine crystalline dense silica argillaceous to marly in part tight no show

5460-5485 LIMESTONE: Mot brown fine crystalline sbchky argillaceous to marly fossils carbonaceous in part poor vis porosity no fluorescence no stain or cut

5485-5555 SHALE: Blk firm sbfis waxy to silty carbonaceous calcareous occasional interbed with LIMESTONE: Mot brown micr fine crystalline hard dense argillaceous fossils tight no show

5555-5616 LIMESTONE: Med to dark brown mottled micxln to crpxln hard dense argillaceous sbchky in part tight no show withbd with SHALE: Blk firm sbfis carbonaceous waxy to silty

5616-5640 SHALE: Dk gray black hard blocky carbonaceous calcareous interbed with LIMESTONE: Brn to gray mottled fine crystalline hard dense fossils tight no show

5640-5682 SHALE: Blk dark gray brown h blocky calcareous mica carbonaceous interbed with LIMESTONE: Brn to gray fine crystalline dense argillaceous to marly fossils carbonaceous tight no show

5682-5726 SHALE: Dk brtn to gray firm sbfis to black carbonaceous calcareous interbed ith LIMESTONE: as above poor vis porosity no fluorescence no stain or cut

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5726-5754 SHALE: Blk dark gray brown h blocky calcareous mica carbonaceous

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5754-5782 LIMESTONE: Dk brown micxln micsuc dolc clean trace intxln and vug porosity mottled yelgold hydrocarbon fluorescence(10% sample) fair strmg cut light oil stain interbed with SHALE: Blk firm blocky carbonaceous calcareous

5782-5828 LIMESTONE: Dk mottled brown to gray occasional black micr fine crystalline dense marly fossils sndy in part carbonaceous tight no show interbed with SHALE: Blk firm sbfis to fissile carbonaceous

5828-5842 LIMESTONE: Med to dark brown fine crystalline dense argillaceous fossils pyrite carbonaceous occasional trace intercrystalline and vug porosity pale blue hydrocarbon fluorescence(5% sample) fair strmg cut trace oil stain

5842-5860 LIMESTONE: Brn hard crpxln dense argillaceous to marly poor vis porosity no show interbed with SHALE: Blk firm fissile carbonaceous

5860-5870 SHALE: Blk firm fissile carbonaceous occasional blocky and sndy and glauconitic

5870-5892 SHALE: Blk firm fissile to blocky waxy to sndy glauconitic fossils carbonaceous very sndy in part and occasional grdng to marly SANDSTONE trace LIMESTONE: as above

5892-5910 SANDSTONE: Spec green salt and pepper mottled gray to brown very fine well sorted grains ca cement argillaceous to marly in part glauc carbonaceous poor vis porosity no fluorescence no stain or cut occasional grdng to very sndy Limestone: Spec green gray mottled hard dense glauconitic pyrite tight interbed with SHALE: as above

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5910-5934 SHALE: Blk firm fissile to blocky waxy to sndy glauconitic fossils carbonaceous very sndy in part and occasional grdng to marly SANDSTONE trace Limestone: as above

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5934-5950 Limestone: Mot gray buff fine crystalline sbchky fossils clean to argillaceous sndy tight no show interbed with SHALE: Blk firm fissile cab

5950-5976 Limestone: Lt bn buff gray mottled micxln sbchky clean to argillaceous fossils tight no show interbed with SHALE: Blk firm fissile carbonaceous

5976-5990 Limestone: Lt bn buff gray mottled micxln sbchky clean to argillaceous fossils tight no show

5990-6016 Limestone: Lt gray to brown buff mottled gray micxln chalky clean to argillaceous fossils carbonaceous trace intxln and fine vug porosity mottled pale blue hydrocarbon fluorescence(6% sample) slow strmg to bldng cut no stain interbed with SHALE: Blk firm fissile carbonaceous

6016-6026 Limestone: Mot gray very chalky argillaceous fossils no show trace Limestone: as above occasional trace light pale mottled blue hydrocarbon fluorescence faint cut no stain

6026-6038 Limestone: Med mottled gray brown micr micxln chalky clean to argillaceous fossils carbonaceous trace intercrystalline porosity trace fine vug porosity very fossils in part well/trace intpart porosity speck pale blue hydrocarbon fluorescence(8% sample) slow strmg cut trace oil stain

6038-6084 SHALE: Blk firm fissile carbonaceous interbed with Limestone: Lt to medium mottled gray to brown micxln soft chalky clean fossils occasional trace intxln porosity sndy glauconitic occasional trace pale blue hydrocarbon fluorescence(2% sample) faint cut no stain

6084-6096 Limestone: Mot brown gray fine crystalline dense sbchky clean to argillaceous very fossils sndy and occasional grdng to SANDSTONE: Dk green gray brown hard very fine well sorted grains clay and calcareous cement tight no show interbed with SHALE: Dk brown gray black firm blocky carbonaceous fossils

6096-6152 SHALE: Med gray firm black waxy calcareous

6152-6170 Limestone: Lt to medium mottled brown crpxln hard dense sbchky in part clean to argillaceous fossils sndy poor vis porosity no fluorescence no stain or cut occasional interbed with SHALE: Med gray blocky waxy

6170-6184 Limestone: Lt to medium mottled brown crpxln hard dense sbchky in part clean to argillaceous fossils sndy poor vis porosity no fluorescence no stain or cut

6200-6224 SHALE: Red to orange maroon viol yellow to orange mottled varic blocky waxy with Limestone: Mot redbrn to orange varic maroon fine crystalline dense marly tight no show

6224-6236 SHALE: Red to orange maroon viol yellow to orange mottled varic blocky waxy

6236-6254 LIMESTONE: Lt brown buff white fine crystalline brittle clean to argillaceous very sndy poor vis porosity no fluorescence no stain or cut trace SANDSTONE: Lt to medium brown buff gray to green hard slightly friable very fine well sorted grains calcareous and clay cement poor vis porosity no show

6254-6262 SHALE: Red to orange gray to green redbrn maroon viol mottled varic blocky waxy sndy

6262-6288 LIMESTONE: Lt brown buff white fine crystalline brittle clean to argillaceous very sndy poor vis porosity no fluorescence no stain or cut trace SANDSTONE: Lt to medium brown buff gray to green hard slightly friable very fine well sorted grains calcareous and clay cement poor vis porosity no show

6288-6330 LIMESTONE: Med to dark brown redbrn gray to green varic fine crystalline very sndy occasional grdng to SANDSTONE: Varic in part red to brown orn yellow mottled slightly friable very fine well sorted grains clay cement argillaceous to marly calcareous tight no show

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