KANSAS CORPORATION COMMISSION OR IGNAL Form ACC-1 October 2008 OIL & GAS CONSERVATION DIVISION Form Must Be Typed

WELL COMPLETION FORM WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 32211	API No. 15 - 119-21242-00-00
Name: O'BRIEN ENERGY RESOURCES CORP.	Spot Description:
Address 1: _18 CONGRESS STREET, STE. 207	<u>-E2W2_SE_Sec. 4Twp. 34S. R. 29</u> East
Address 2:	1,320 Feet from North / South Line of Section
City: PORTSMOUTH State: NH Zip: 03801 +	1,650 Feet from 🕢 East / 🗌 West Line of Section
Contact Person: JOSEPH FORMA	Footages Calculated from Nearest Outside Section Corner:
Phone: (603) 427-2099	□ NE □ NW ☑ SE □ SW
CONTRACTOR: License # 5929	County: MEADE
Name: DUKE DRILLING CO., INC.	Lease Name: LARRABEE OFFSET Well #: 2-4
Wellsite Geologist: PETER DEBENHAM	Field Name: UNNAMED
Purchaser: DCP MIDSTREAM, NCRA	Producing Formation: MORROW
Designate Type of Completion:	Elevation: Ground: 2528' Kelly Bushing: 2540'
New Well Re-Entry Workover	Total Depth: 6260' Plug Back Total Depth:
Oil SWD SIOW	Amount of Surface Pipe Set and Cemented at:Feet
Gas ENHR SIGW	Multiple Stage Cementing Collar Used? ☐ Yes ☑ No
CM (Coal Bed Methane) Temp. Abd.	If yes, show depth set:Feet
Dry Other(Core, WSW, Expl., Cathodic, etc.)	If Alternate II completion, cement circulated from:
If Workover/Re-entry: Old Well Info as follows:	feet depth to:w/AIF1-D1g-10/5
Operator:	Drilling Fluid Management Plan
Well Name:	(Data must be collected from the Reserve Pit)
Original Comp. Date: Original Total Depth:	Chloride content: 3200 ppm Fluid volume: 450 bbls
Deepening Re-perf Conv. to Enhr Conv. to SWD	Dewatering method used: HAUL FREE WATER. NATURAL EVAP. W/36 INCH MINIMUM
Plug Back: Plug Back Total Depth	
Commingled Docket No.:	Location of fluid disposal if hauled offsite:
Dual Completion	Operator Name: DILLCO FLUID SERVICE, INC.
Other (SWD or Enhr.?) Docket No.:	Lease Name: I B REGIER License No.: 6652
8/25/2009 8/31/2009 9/23/2009	Quarter SWNE Sec. 17 Twp.33 S. R. 27 East West
Spud Date or Date Reached TD Completion Date or Recompletion Date Recompletion Date	County: MEADE Docket No.: D21232
INSTRUCTIONS: An original and two copies of this form shall be filed with Kansas 67202, within 120 days of the spud date, recompletion, workover or co of side two of this form will be held confidential for a period of 12 months if requiality in excess of 12 months). One copy of all wireline logs and geologist well BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 for	onversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information uested in writing and submitted with the form (see rule 82-3-107 for confiden-II report shall be attached with this form. ALL CEMENTING TICKETS MUST
All requirements of the statutes, rules and regulations promulgated to regulate the are complete and correct to the best of my knowledge.	ne oil and gas industry have been fully complied with and the statements herein
Signature:	KCC Office Use ONLY
Title: VICE PRESIDENT Date: 9/28/2009	Letter of Confidentiality Received
Subscribed and sworn to before me this 29 day of September	, If Denied, Yes Date:
20 09	Wireline Log Received
Notary Public:	Geologist Report Received RECEIVED
	UIC Distribution OCT 0 2 2009
Date Commission Expires: MARK EDDINGER	30, 01 2003

MARK EDDINGER Notary Public - New Hampshire My Commission Expires June 17, 2014

Side Two

Operator Name: O'E	BRIEN ENERGY R	RESOURCES CORP.	Lease I	Name: _	LARRABEE O	FFSET	Well #: <u>2-4</u>		
Sec. 4 Twp. 3	34 S. R. 29	☐ East 🗹 West	County	MEA	DE				
time tool open and corecovery, and flow ra	losed, flowing and shi	nd base of formations pe ut-in pressures, whether est, along with final char report.	shut-in press	sure rea	ched static level,	hydrostatic pr	essures, bottom	hole temperature, fluid	
Drill Stem Tests Take		☐ Yes 📝 No		 ✓L	og Formatio	n (Top), Depth	and Datum	Sample	
Samples Sent to Geo	•		Nam HEEL	e BNER		Top 4404	Datum -1864'		
Cores Taken		☐ Yes 🗸 No		LANS	SING		4564'	-2024'	
Electric Log Run (Submit Copy)		✓ Yes No		MAR	MATON		5196'	-2656'	
List All E Logs Dun:				CHE	ROKEE		5409'	-2869'	
List All E. Logs Run:	ICTION NEL	ITDON/ DENICIT	F\/	ATO	KA		5605'	-3065'	
	ISTIVITY, Cem	JTRON/ DENSIT	Υ,	MOR	ROW		5727'	-3187'	
WICKO RES	1311VIII, CEN	nem wy		MISS	SISSSIPPI CHE	STER	5836'	-3296'	
		CASINO	RECORD	✓ Ne	w Used			-	
	Circ. Hete	Report all strings set			,	r —		T =	
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weig Lbs. /		Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives	
CONDUCTOR	32"	20"			40'				
SURFACE	12 1/2	8 5/8 J55	24#/FT.		1580'	ACON, PREM. P	Lus 490	3% CaCl Premium Plus	
PRODUCTION	7 7/8	4 1/2 J55	10.5#/FT	•	6260'	AA2, PEMIUM P	M PLUS 150 Premium		
		ADDITIONA	L CEMENTIN	IG / SQL	IEEZE RECORD				
Purpose: —— Perforate	Depth Top Bottom	Type of Cement	#Sacks	Used	Type and Percent Additives				
Protect Casing Plug Back TD									
—— Plug Off Zone					i				
Shots Per Foot	PERFORATION Specify I	ON RECORD - Bridge Plug Footage of Each Interval Pe	gs Set/Type rforated			ture, Shot, Cem nount and Kind of	ent Squeeze Recor Material Used)	d Depth	
2	6110-'6132', se	et 4 1/2 CIBP @ 60	80'		Acidized w/ 2000 g	al NE FE 15% HO	CL w/65 ball sealers, 2	25 bbls kcl	
2	5778'-5792'				Acidized w/ 750 ga	al NE FE 7.5% HC	L w/35 ball sealers, 2	23 bbis kci	
								RECEIVED	
	*****	4			<u>.</u>			OCT 0 2 2009	
TUBING RECORD:	Size:	Set At:	Packer At:		Liner Run:			001 0 2 2003	
	3/8		5718'] Yes 🔲 I	10 K	CC WICHITA	
Date of First, Resumed 9/24/2009	Production, SWD or Ent	hr. Producing Met] Flowing	Pumping	g 🗌 Gas		er (Explain)	
Estimated Production Per 24 Hours	Oil I	Bbls. Gas	Mcf ICF	Wate	er Bb	ls.	Gas-Oil Ratio	Gravity	
					-				
DISPOSITIO	ON OF GAS:		METHOD OF (COMPLE	TION:			ON INTERVAL:	
☐ Vented	Used on Lease	Open Hole	Perf.	Dually	Comp. 🔲 Com	mingled 5	5778'-5792'		
(If vented, Sul	omit ACO-18.)	Other (Specify)				1_			



PAGE CUST NO INVOICE DATE 1 of 1 1002969 08/27/2009

INVOICE NUMBER

1717 - 90111187

Liberal

B O'BRIEN ENERGY RESOURSES

I 18 CONGRESS ST SUITE 207

PORTSMOUTH

NH US T

03801

o ATTN:

LEASE NAME 0

Larrabee Offset #2-4

LOCATION В

COUNTY

Meade

STATE

JOB DESCRIPTION

Cement-New Well Casing/Pi

E JOB CONTACT

ЈОВ #	EQUIPMENT #	PURCHASE	ORDER NO.		TERMS	DUE DATE
40082450	27808				Net - 30 days	09/26/2009
			QTY	U of	UNIT PRICE	INVOICE AMOUNT
For Service Date	es: 08/27/2009 to	08/27/2009	ļ			
0040082450						
171700147A (8 5/8" Surface	Cement-New Well Casi	ng/Pi 08/27/2009				
A-Con Blend			340.00	EA	10.23	3,478.20 T
Premium Plus (Cement		150.00	EA	8.97	
Calcium Chlorid	е		1,242.00	EA	0.58	h
Cello-flake			116.00	EA	2.04	
WCA-1			64.00	EA	13.75	1
insert Float Val			1.00	EA	154.00	
Centralizer - 8			3.00	EA	79.75	239.25
Basket - 8 5/8"			1.00	EA	173.25	173.25
Guide Shoe - R	-		1.00	EA	209.00	209.00
	ment Plug - 8 5/8"		1.00		123.75	123.75
Heavy Equipmer	-		45.00		3.85	173.25
	ng Service Charge		490.00		0.77	377.30
	ulk Delivery Charge		346.00		0.88	1
Depth Charge;			1.00	l l	825.00	
Car, Pickup or N Service Supervis			15.00		2.34	
			1.00		96.25	
Plug Container (unarge		1.00	EA	137.50	137.50
						5
			[RECEIVED
						OCT 0 2 2009
					K	CC WICHITA
					1	OO WIGHTIA

PLEASE REMIT TO:

SEND OTHER CORRESPONDENCE TO:

DALLAS, TX 75284-1903

BASIC ENERGY SERVICES, LP
PO BOX 841903
PO BOX 10460 MIDLAND, TX 79702

SUB TOTAL TAX 9,504.36

INVOICE TOTAL

9,923.71



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

FIELD SERVICE TICKET 1717 00147 A

PRESSURE PUMPING & WIRELINE

		
	DATES 17 TICKET NO	
OLD _	PROD INJ WDW	CUSTOMER ORDER NO.:
1112b	ce Offset	WELL NO.2-4
Meda	le STATE	K
REW C	chrin, E. Beruman	S.Chavez
24		re
HRS	TRUCK CALLED	SATE AM STIME
	ARRIVED AT JOB	7-26 AM 23:45
	START OPERATION	7.17 AM 03:19
	FINISH OPERATION	7-27 AND 04:50
	RELEASED S	7.27 AMP 05:30
	MILES FROM STATION TO	WELL 37
commence	ed or merchandise is delivered)	

DATE OF S	27-0	99 I	DISTRICT /7/	7	•	NEW 🔀	OLD	PROD IN	J 🗌 WDW	<u>C</u>	CUSTOMER ORDER NO.:	
CUSTOMER	0 Br	ion	Energy			LEASE LO	rrih	ce Off	Set		WELL NO.	2-4
ADDRESS							Neto		STATE	Ks		
CITY			STATE			•			Beruman			
AUTHORIZED E	зү Ј	CVN	Bennett	JRB		JOB TYPE:			Surto			
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	MATERIALS	%TAX ON \$		†
		TOTAL		
				1

REPRESENTATIVE / Lickey Cochram ORDERED BY CUSTOMER AND RECEIVED BY: / CONTRACTOR OR AGENT)



TREATMENT REPORT

Customer Lease /	Bring	- C.	Company of the	Lease No.		- 1	f	Date	·		
Lease	eshee	Affert	7 9	Well #	- 4	- · · · · · · · · · · · · · · · · · · ·		Z	-26	09	
Field Order #	† I Statio	n liker		<u>^`</u>	Casing	Septi	'n	County //	I Ada		State
Type Job	A see	2		119		Formation	1		Legal Do	escription	-34-27
PIPE	E DATA		FORATIN	G DATA	FLUID	USED		TREA		RESUME	in the first
Casing Size	Tubing Si	ze Shots/		sk A	Acid Bles	1-3%	10-12	PRE PRE	SSIL.	ISIP of	WCA-1
Depth	Depth	From	3, 16	1/3/5	Pre Pady	2011/6	/Max	1177	Lal	5 Min.	- ()
Volume	Volume	From	150	111	Pad Princepor	145 - 2	Min 1	- 1,4	10/10	10 Min.	
Max Press	Max Pres		1 13		Frác	20111	Ayg.	14 87	4/2/	15 Min.	
Well Connection	on Annulus V	/ol. From	To	,			HHP Used		7-7-10-1	Annulus Pr	essure
Plug Depth	Packer De	epth From	То		Flush		Gas Volum	е		Total Load	
Customer Rep	presentative	Redorle	l _{earson}	Station	Manager 7	Bernet	1 para	Treater	7. Ca	ahri	M
Service Units	21755	27800		12135.							
Oriver Names	Cochran	E. Be	rumin	5.1	holvez						
Time	Casing Pressure	Tubing Pressure	Bbls. Pu	mped	Rate				ice Log		
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						Stell	+ 1.59.		<u>.</u>		
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1700-6				ľ	`				2 WICH		12.60
1700 S	5. Counti	ry Estate	es • P.O.	Box 12	9 • Liberal,	KS 6790	5 • (620)	624-227	7 • Fax	(620)62	24-2280



PAGE	CUST NO	INVOICE DATE
1 of 1	1002969	09/04/2009

INVOICE NUMBER

MEADE

1717 - 90118799

Liberal

(620) 624-2277

SUITE 207

B O'BRIEN ENERGY RESOURSES

I 18 CONGRESS ST

PORTSMOUTH

NH US

03801

o ATTN:

LEASE NAME LOCATION

Larrabee Offset #2-4

COUNTY

STATE

JOB DESCRIPTION

Cement-New Well Casing/Pi

JOB CONTACT

JOB #	EQUIPMENT #	PURCHASE	ORDER NO.		TERMS	DUE DATE
40086973	27462				Net - 30 days	10/04/2009
			QTY	U of	UNIT PRICE	INVOICE AMOUNT
For Service Date	s: 09/01/2009 to	09/01/2009		M		
0040086973						
171700276A C	ement-New Well Casin	g/Pi 09/01/2009				
4 1/2" Longstrin	ng					
AA2 Cement			150.00	EA	9.10	1,365.00
Premium Plus Ce			50.00	EA	8.15	,
CAF 38 Defoam	er		36.00	I .	3.50	
Salt (fine)			852.00	EA	0.25	1
FLA-115			85.00	1	7.50	
Gilsonite			750.00	EA	0.34	
XPC Set			705.00	EΑ	0.60	
Guide Shoe - Re	-		1.00	EA	112.50	
Inser Float Valve			1.00	EA	100.00	i e
Centralizer - 4 1,	/2"		8.00	EA	55.00	
Mud Flush			500.00	EA	0.43	
CC-1			10.00	EA	22.00	
	ent Plug - 4 1/2"		1.00	EA	40.00	
Stop Ring - 4 1/			1.00	EA	15.00	
Heavy Equipment	•		30.00	MI	3.50	
	g Service Charge		200.00	MI	0.70	
	k Delivery Charge		141.00	МІ	0.80	
Depth Charge; 60			1.00	EA	1,620.00	
Car, Pickup or Va			15.00	мі	2.13	31.88
Service Superviso			1.00	HR	87.50	87.50
Plug Container Cl	harge		1.00	EA	125.00	
				F	RECEIVED	
				h	OCT 0 2 2009	
				KC	C WICHITA	1
				i		

PLEASE REMIT TO:

SEND OTHER CORRESPONDENCE TO:

DALLAS, TX 75284-1903

BASIC ENERGY SERVICES, LP
PO BOX 841903
PO BOX 10460 MIDLAND, TX 79702

SUB TOTAL TAX

6,787.93

INVOICE TOTAL

7,031.00

1700 S. Country Estates Rd.

FIELD SERVICE TICKET

00072 1717

ENERGY SERVICES Phone 620-	ansas 67905
PRESSURE PUMPING & WIRELINE	DATE TICKET NO
DATE OF Q-(-O9 DISTRICT [7]]	NEW WELL PROD □INJ □ WDW □ CUSTOMER ORDER NO.:
CUSTOMER O'STIEM ENPRACE	LEASE arrabee Offset # 2 WELL NO.
ADDRESS J	COUNTY Moods STATE KS
CITY STATE	SERVICE CREW R. COX F BUCHMM
AUTHORIZED BY J. BENNETT JR	B JOB TYPE: 242-84/9 COMOSTRING
EQUIPMENT# HRS EQUIPMENT# HRS	EQUIPMENT# HRS TRUCK CALLED PATE AM TIME
(UXIVA	ARRIVED AT JOB
	START OPERATION AM ()

START OPERATION **FINISH OPERATION** RELEASED MILES FROM STATION TO WELL, SW 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 to execute the execute this contract to execute this contract to execute this contract to execute the execute this contract to execute the execute this contract to execute this contract to execute the execute this contract to execute the execute this contract to execute the execute this execute the execute the execute this execute the execute this execute the execute this execute the execute the execute the execute this execute the execut 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 conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP. LALLAN SIGNEDA (WELL OWNER, OPERATOR, CONTRACTOR OR AGENT) ITEM/PRICE REF. NO MATERIAL, EQUIPMENT AND SERVICES USED UNIT QUANTITY **UNIT PRICE** \$ AMOUNT 2730 815 Xtoame 252 CC WICHITA 500 846 TO 850 w S00 £40 00 ubber 80 00

	Field Servi	ce Tirekot	· Card				Ŧ
СН	HEMICAL / ACID DATA:	118.701	Court	S	UB TOTAL	6787.	9
			SERVICE & EQUIPMENT MATERIALS	%TAX ON \$ %TAX ON \$			+
					TOTAL		1
						7	,

THE ABOVE MATERIAL AND SERVICE

ORDERED BY CUSTOMER AND RECEIVED BY

FIELD SERVICE ORDER NO.

SERVICE

REPRESENTATIVE

(WELL OWNER OPERATOR CONTRACTOR OR AGENT)



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

PRESSURE PUMPING & WIRELINE

TICKET NO. 00276

	PRESSURE PUMPING &	vviHeLine			TICKET NO	16
ITEM/PRICE REF. NO.	MATE	RIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
Elol	Geavu	Equipment Mileage	Mi	30		210 00
CE240	Bleisting	L' Mixing Service	<u> </u>	200		28000
<u> </u>	Loppar	+ Bulk Oplivery	tow/m	141		225 60
Ct 401	Lepin	Charee.	15t y			324000
E100	-RNI4	Mileone	mì	15		63 75
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TREATMENT REPORT

	02													
Customer	Bries	n E		C. IA	Lease No).				Date	\bigcirc	1 .	2 F2	
Lease /	realog	6/ N	(Cs)	1/1	Well# >)-(1					- 1- C	19	
Field Order		n .	De sell	A	· 171	7	Casing	10.5 Pepth	02551	County	Non	do		State
Type Job	42-6	1/2	Ø	1 -	trins	; 	÷ Ex	Formation		<u> </u>	1	Legal De	escription (1-34-29
PIP	E DATA			1	NG DATA	7	FLUID	USED		ΤI	REAT	MENT	RESUME	
Casing Size	Tubing S	ize S	Shots/F	t			5 sks	Cals	CalsBATE BRESS H ISIP & FLAVIS				FIRUS	
Depth	Depth	F	rom	то То		_	Pad	Max	14	Dr	Com	5 Min.		
Volume	Volume	F	rom	n To		Pa	1 9 - D 34	Minxagallak			N A 7 DVV	10 Min.		
Max Press	Max Pres	is F	rom			Frac 50 S		ks Cla	Ayg A			15 Min.		
Well Connecti			rom	Т	ò				HHP Used			Annulus P	ressure	
Plug Depth	Packer D	` F	rom	т,	······································	Flu	ish (mg	n hater	Gas Volum	ne			Total Load	
Customer Re	presentative	<i>\</i>	Pag	CS011	Statio	n Mar	ager 1	Benne	#	Treate	r A	Oh	DVA	
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O'Brien Energy Resources, Inc. Larrabee Offset No. 2-4 Section 4, T34S, R29W

Meade County, Kansas August, 2009

Well Summary

The O'Brien Energy Resources, Corporation, Larrabee Offset No. 2-4 was drilled to a total depth of 6260' in the Ste. Genevieve Formation. The Heebner and Toronto ran 17' high relative to the O'Brien Energy, Larrabee No. 1-4, 3700' to the North. Formation tops from the Lansing to the Atoka came in 20' to 26' high. The Morrow ran 33' while the Mississippian Chester came in 4' low and Ste. Genevieve ran even. The Lower Morrow Sandstone ran 16' low relative to the Mesa Petroleum, Adams No. 1-9, 3300' to the Southwest and gas productive from this interval.

An excellent gas kick of 900 Units with sample show occurred in the Lower Morrow Sandstone from 5779' to 5790' and consists of a Sandstone in 40% of the samples: Speckled green, salt and pepper, light to medium mottled brown, firm, friable, very fine, well sorted grains, calcareous cement, clean, very glauconitic, carbonaceous, good intergranular and fine vuggy porosity, very dull mottled orange gold hydrocarbon fluorescence(10% spl), slow bleeding to streaming cut, trace medium brown oil stain and trace live oil and gas bubbles when crushed, show dissipates and is subtle in nature.

An excellent show occurred in the Chester from 6110' to 6118' and was documented as a Sandstone: Speckled green, salt and pepper, medium to dark mottled brown to brown, friable, brittle, very fine well sorted grains, very calcareous, clean, very glauconitic, fair intergranular porosity, good vuggy porosity, pale mottled gold brown hydrocarbon fluorescence(all sandstone), excellent streaming cut, abundant brown matrix oil stain, live oil and gas bubbles, occasionally laminated with very black shale inclusions. A 520 Unit gas kick was documented. This interval appears as a Limestone on logs and may actually be considered a sandy Limestone than a Sandstone. Further shows with gas readings were documented to 6132' and consisted of a chalky Limestone with a mottled brown oil stain, dull fluorescence and slow cut.

Additional shows were documented in the Chester(attached mudlog).

4 ½" production casing was run on the Larrabee Offset No. 2-4.

Again, appreciation to Duke Drilling Rig 6 hands.

Respectfully Submitted

Peter Debenham

WELL DATA

Operator: O'Brien Energy Resources, Inc., John Forma – Portsmouth, NH

Geologist: Paul Wiemann – Denver, CO

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

Well: Larrabee No. 2-4

Location: 1320' FSL & 1650' FEL, Section 4, T34S, R29W, Meade County, Kansas -

South of Meade.

Elevation: Ground Level 2528', Kelly Bushing 2540'

Contractor: Duke Drilling Rig No. 6, Type: Double jacknife, triple stand, Toolpusher Rick

Schollenbarger, Drillers: Terry Sorter, Danny White, Mike Brewer

Company Man: Roger Pearson – Liberal, Kansas

Spud Date: 8/25/09

Total Depth: 8/31/09, Driller 6260', Logger 6252', Ste. Genevieve

Casing Program: 39 joints of 8 5/8", J55, 24Lbs/ft, set at 1580'. 4 ½" production casing set to TD

8/31/09.

Mud Program: Mud Co./Service Mud Inc., Engineer Tony Maestas, mud up 4000'.

Wellsite Consultant: Peter Debenham with mudlogging trailer, Call depth 3000', Box 350, Drake,

CO 80515, 720/220-4860.

Samples: 20' to 4600', 10' to TD. Zones of interest saved.

Electric Logs: Weatherford, Engineer Lynn Scott, 1) Array Induction, 2) Density/Neutron,

3) Micro Resistivity

Status: 4 1/2 " production casing to TD on 831/09.

WELL CHRONOLOGY

6 AM		
DATE DEPTH	FOOTAGE	RIG ACTIVITY

8/25 131' Move to and rig up. Pump water and mix mud to coat reservoir pit (2 loads). Mix spud mud. Drill rathole and mousehole. Spud in 12 1/4" surface hole to 131'.

8/26 1505' 1374' Surveys(1/4 deg.). Service rig, drilling.

8/27 2285' 780' Drill to 1580' and circulate. Drop survey(3/4 deg.). Trip for surface casing and run and cement 39 joints set at 1580' and wait on cement. Back off 8 5/8" casing and nipple up and pressure test BOP to 500 PSI/15 min. Trip in and wait on cement. Drill plug and cement and 7 7/8" hole to 2285'

8/28 3900' 1615' Displace mud system at 2500'. Survey(1/4 deg.). Lost circulation, 100 bbls at 2979'.

8/29 5100' 1200'

8/30 6040' 940' Survey(1/4 deg.). Service rig and clean suction. Circulate for samples at 5802'.

8/31 6260'TD 220' To TD and circulate. Short trip 43 stands – got stuck 16 stands out. Work pipe. Spot 65 bbls of oil and free pipe. Circulate oil to pits and short trip. Circulate on bottom. Drop survey and trip for logs. Run el-ogs.

9/1 TD Run and cement 4 ½" production casing to TD. Rig down.

BIT RECORD

<u>NO.</u>	MAKE	TYPE	SIZE	<u>OUT</u>	FOOTAGE	HOURS
1 2	Varel HTC	ChSKJMS DP 5062'	12 ¼" 7 7/8"	1580' 6260'	1580' 4680'	15 1/4 83 1/2
				Total Rotating Hours: Average:		98 3/4 63.4 Ft/hr

DEVIATION RECORD - degree

511' ¼, 1086' ¼, 1580' ¾, 2508' ¼, 5551' ¼, 6260'TD 1/2

MUD PROPERTIES

DATE	DEPTH	$\underline{\mathbf{WT}}$	<u>VIS</u>	<u>PV</u>	<u>YP</u>	<u>H</u> q	<u>WL</u>	<u>CL</u>	LCM-LBS/BBL
8/26	1022'	9.7	35	5	10	7.0	n/c	68K	5
8/28	2983'	9.6	31	3	7	7.0	n/c	58K	1
8/29	4522'	9.3	44	13	16	9.0	12.0	6K	4
8/30	5577'	9.5	45	14	17	9.0	8.0	3.6K	5
8/31	6260'	9.6	56	17	21	9.5	8.0	2.2K	3

ELECTRIC LOG FORMATION TOPS- KB Elev. 2540'

			*Larrabee No. 1-4		
FORMATION	DEPTH	DATUM	DATUM	POSITION	
Heebner	4404'	-1864'	-1882'	+18'	
Toronto	4432'	-1892'	-1908'	+16'	
Lansing	4564'	-2024'	-2050'	+26'	
Marmaton	5196'	-2656'	-2682'	+26'	
Cherokee	5409'	-2869'	-2892'	+23'	
Atoka	5605'	-3065'	-3085'	+20'	
Morrow	5727'	-3187'	-3220'	+33'	
Mississippi Chester	5836'	-3296'	-3330'	-4'	
Ste. Genevieve	6209'	-3669'	-3669'	0'	
TD	6260'	-3720'			

^{*}O'Brien Energy Resources, Larrabee No. 1-4, app. 3700' to the North, K.B. Elev. 2550'.

LITHOLOGY DESCRIPTION

SAMPLES ARE LAGGED CORRECTED E-LOG FORMATION TOPS *INDICATES HYDROCARBON SHOW

Lansing 4564' – Samples run, no shows.

4600-4695 LIMESTONE: Med mottled brown biomicr fine crystalline dense clean to argillaceous fossils tight no show with LIMESTONE: Med brown light brown to tan biomicr micxln micsuc to sucrosic in part brittle clean fossils oolites gd intxln and moldic porosity orange mineral fluorescence no stain or cut no show interbed with SHALE: Dk brown gray black firm sbfis carbonaceous

4695-4725 LIMESTONE: Med to dark mottled brown crpxln hard dense silica argillaceous to marly in part sndy fossils mineral fluorescence no show interbed with SHALE: as above

4725-4745 LIMESTONE: Brn micxln micsuc brittle clean fair intxln and occasional oomoldic porosity no fluorescence no stain or cut

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4745-4775 LIMESTONE: Dk mottled brown crpxln hard dense silica tight no show occasional interbed with SHALE: Blk dark brown firm fissile carbonaceous

4775-4825 LIMESTONE: Mot brown biomicr micxln micsuc brittle clean to argillaceous fossils oolites sndy occasional gd oomoldic porosity trace intxln porosity mineral fluorescence no stain ro cut no show

4825-4895 SHALE: Dk brown black gray firm to hard blocky carbonaceous calcareous interbed with LIMESTONE: Gy brown crpxln hard dense silica argillaceous to marly occasional moldic porosity no fluorescence no stain or cut

4895-4950 LIMESTONE: Lt brown buff micxln sbchky in part clean fossils oolites occasional moldic porosity trace intxln porosity no show occasional very silica and tight with trace CHRT

4950-4980 SHALE: Gy black brown hard blocky silica interbed with LIMESTONE: Brn crpxln hard dense silica tight

4980-5000 LIMESTONE: Dk to medium brown mottled crpxln hard dense silica argillaceous to marly tight no show

5000-5034 SHALE: Dk brown black firm sbfis to blocky very carbonaceous calcareous silty

5034-5080 LIMESTONE: Mot brown oomicr micxln brittle clean very oolites with exc oomoldic porosity mineral fluorescence no hydrocarbon fluorescence no stain or cut

5080-5130 SHALE: Dk gray black firm blocky waxy carbonaceous with LIMESTONE: as above silica and tight no show

5130-5160 LIMESTONE: Lt brown buff oomicr very chalky in part clean very oolites well/ moldic porosity no fluorescence no stain or cut

5160-5186 LIMESTONE: Dk mottled brown gray biomicr crpxln hard dense silica fossils tight no show trace CHRT

5186-5240 SHALE: Blk firm fissile waxy carbonaceous silty interbed with LIMESTONE: Brn sbchky clean fossils no show

Marmaton 5196'

5240-5310 LIMESTONE: Lt to medium brown buff micsun micsuc in part predominant hard silica and tight oolites clean to argillaceous trace oomoldic porosity and intxln porosity no fluorescence no stain or cut with LIMESTONE: Dk brown crpxln silica hard tight no show interbed with SHALE: as above

5310-5330 LIMESTONE: Lt/medium brown buff micxln micsuc sbchky clean fossils trace intxln and very fine vug porosity no show

5330-5365 LIMESTONE: Dk brown crpxln hard dense silica argillaceous to marly in part tight with LIMESTONE: Lt brown buff soft chalky clean fossils occasional oomoldic porosity no show interbed with SHALE: Dk gray to black firm sbfis carbonaceous

5365-5390 SHALE: Blk firm fissile very carbonaceous with LIMESTONE: Crpxln hard dense tight no show

Cherokee 5409'

5390-5450 LIMESTONE: Mot gray brown fine crystalline hard dense argillaceous to marly fossils carbonaceous tight interbed with SHALE: Blk fissile carbonaceous

5450-5500 LIMESTONE: Med to dark mottled gray brown micr fine crystalline hard dense marly fossils carbonaceous tight no show interbed with SHALE: Gy black fissile to blocky carbonaceous calcareous silty

Atoka 5605'

5500-5620 SHALE: Blk very dark brown hard sbfis carbonaceous calcareous silty interbed with LIMESTONE: Med to dark brown to gray occasional black micr crpxln hard dense silica marly tight no show trace CHRT

5620-5660 LIMESTONE: Mot brown fine crystalline hard dense silica sbchky in part argillaceous pyrite tight no show interbed with SHALE: as above

5660-5725 LIMESTONE: Dk mottled brown gray black crpxln dense silica marly in part tight no fluorescence no stain or cut interbed with SHALE: Blk sbfis to blocky carbonaceous calcareous silty

5694-5734 LIMESTONE: Dk mottled brown gray black crpxln dense silica marly in part tight no fluorescence no stain or cut interbed with SHALE: Blk sbfis to blocky carbonaceous calcite

Morrow 5727'

5734-5754 SHALE: Blk dark brown to gray firm fissile to blocky carbonaceous calcareous

5754-5768 LIMESTONE: Dk mottled brown gray black crpxln dense silica marly in part tight no fluorescence no stain or cut

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Upper Morrow Sandstone 5760'

5768-5786 SANDSTONE: Spec green salt and pepper medium to dark brown to gray firm friable very fine well sorted rounded grains ca cement clean to argillaceous very glauconitic carbonaceous incls trace intgran and fine vug porosity no fluorescence no stain or cut with LIMESTONE: Lt brown buff micxln sbchky in part sndy glauconitic clean fossils tight no show

Lower Morrow Sandstone 5779'

5786-5800 *900 Units, SANDSTONE: Spec Gn salt and pepper light to medium mottled brown firm friable very fine well sorted grains calcareous cement clean very glauconitic carbonaceous gd intgran and vug porosity very dull mottled orange gold hydrocarbon fluorescence slow bldng to strmg cut trace medium brown oil stain trace live oil and gas bubbles when crushed show dissipates when dried

Chester 5836'

5800-5842 LIMESTONE: Bf brown firm brittle chalky very sndy in part glauconitic no show interbed with SHALE: Dk gray black firm fissile waxy carbonaceous

5830-5842 SHALE: Blk dark gray firm fissile waxy carbonaceous

5842-5874 LIMESTONE: Lt to medium mottled brown gray buff micr micxln sbchky to chalky firm to soft waxy fossils sndy carbonaceous tight no show interbed with SHALE: Dk brown gray firm

fissile carbonaceous

5874-5882 LIMESTONE: Med to dark mottled brown occasional buff biomicr fine crystalline sbchky in part silica and hard in part carbonaceous fossils sndy clean to argillaceous tight no show

5882-5912 *LIMESTONE: Mot brown gray biomicr micxln micsuc brittle clean sbchky very fossils with intpart porosity trace moldic and fine vug porosity trace intxln porosity abt speck gold and mottled orange hydrocarbon fluorescence (30% sample) fair strmg cut no stain interbed with

5912-5942 LIMESTONE: Dk brown biomicr crpxln hard dense fossils tight no show with SHALE: Blk dark brown firm soft fissile with

5942-5972 SHALE: Blk dark brown firm soft fissile with LIMESTONE: Dk brown biomicr crpxln hard dense fossils tight no show

5972-6000 SHALE: Gy soft waxy fissile with LIMESTONE: Med brown mottled gray fine crystalline micsuc clean to argillaceous fossils carbonaceous sndy sbchky in part tight trace mottled pale blue hydrocarbon fluorescence weak cut trace oil stain weak show RECEIVE

6000-6020 SHALE: Gy brown firm waxy fissile

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6020-6070 LIMESTONE: Mot brown gray buff fine crystalline sbchky poor vis porosity pale blue KCC WICH hydrocarbon fluorescence slow strmg cut abt brown oil stain with LIMESTONE: Mot brown buff white micxln micsuc sbchky brittle clean to argillaceous fossils carbonaceous tight occasional pale blue hydrocarbon fluorescence with weak cut interbed with SHALE: Gy black firm fissile

6070-6112 SHALE: Mot red to orange redbrn gray to green gygn occasional yellow varic blocky waxy with trace LIMESTONE: Mot brown gray buff fine crystalline sbchky poor vis porosity trace pale blue hydrocarbon fluorescence slow strmg cut trace mottled brown oil stain

6112-6118 LIMESTONE: Mot brown speck brown micsuc brittle very sndy with very fine well sorted grains trace intxln and vug porosity trace mottled brown matrix oil stain with pale blgn hydrocarbon fluorescence fair strmg cut trace live oil fair show

6118-6128 *520 Units, SANDSTONE: Spec green S&P medium brown mottled to even brown friable very fine well sorted sbrnd grains ca cement clean very carbonaceous very glauconitic fair intgran and vug porosity pale mottled goldbrn hydrocarbon fluorescence(most SANDSTONE) exc strmg cut abt brown matrix oil stain and live oil gas bubbles gd show occasional lami with black shale incls

6128-6160 LIMESTONE: Mot brown speck brown micsuc brittle very sndy with very fine well sorted grains trace intxln and vug porosity abt speck brown matrix oil stain with pale blgn hydrocarbon fluorescence gd strmg cut trace live oil fair show

6160-6184 SHALE: Dk gray brown black occasional gygn to green soft waxy fissile

6184-6210 LIMESTONE: Mot brown speck brown micsuc brittle very sndy with very fine well sorted grains trace intxln and vug porosity abt speck brown matrix oil stain with pale blgn hydrocarbon fluorescence gd strmg cut trace live oil fair show with LIMESTONE: Brn crpxln hard dense sndy no show interbed with SHALE: Dk gray brown black occasional gygn to green soft waxy fissile

6210-6216 SHALE: Blk dark brown to gray gygn firm fissile waxy

Ste. Genevieve 6209'

6216-6240 LIMESTONE: Mot brown to gray buff tan micr fine crystalline dense sndy argillaceous to marly fossils tight no show with SHALE: as above

6240-6260 LIMESTONE: Mot brown to gray buff tan micr fine crystalline dense sndy argillaceous to marly fossils tight no show occasional interbed with SHALE: as above