

THE STATE CORPORATION COMMISSION OF THE STATE OF KANSAS CONSERVATION DIVISION

DISPOSAL WELL PERMIT

		DISTOSAL WELL I	EKWITI	
Oper. License	#; 33190	Permit #: D-3	0726	•
Operator: Nobl	le Energy, Inc.	Well Name &	No.: Raile SWD #1	
Address: 1625	Broadway, Ste. 220	DO Location: 361	1'FSL 430'FEL	
City: Denver		Sec. 6 TWP 4	RGE 41 □ (E) ⊠ (W)	
State: Colorado)	County: Chey	venne	
Zip Code: 8020)2 .	•	Cherry Creek Niobrara Gas Area	1
·			,	-
Project Acreage NE/4 SEC, 12-2	e: Sec. 31-T3S-41W T4S-R42W.	/; SEC. 6-T4S-R41W; N/2-NW/4	SEC. 7-T4S-R41W; W/2 & E/2	2-E/2 SEC. 1, N/2-
permit for the i	njection of produce	lication for Disposal Well Permit d saltwater or other fluids approver requirements of this permit include	red by the Conservation Division	n. The permitted wel
> The do > The m > The m > Attach	epth of the permitt aximum authorize aximum authorize ament X YES,		of fluid per day.	H)
Complete casing	g information is as			<u>SACKS</u>
	CLAE	SEAT	INTERVAL	CEMENT
Conductor	<u>SIZE</u> NONE"	DEPTH	CEMENTED ' to '	<u>USED</u>
Surface	9-5/8"	309'	0' to 309'	170
Intermediate	NONE"	1	' to '	1/0
Production	7"	3250'	1290' to 3250'	315
Tubing	3-1/2"	3208'	' to '	313
	nenting: NONE' t			
		ENSION set @ 3208'		
		pplying fluid for injection: Lease Name	Lease Des	cription
In addition to the subject to all of the Conservation	the provisions of I	conditions and requirements set K.A.R. 83-3-400 et seq. Injectio	out above or on the attachment n authority cannot be transferre	t hereto, this permit is ad without approval of
Date of Approv	al: <u>1-27-2011</u>		Director, Underground Injec	
			Conservation Division	on

HALLIBURTON

Summit Version: 7.20.130

Cementing Job Summary

							he l	Road to	Exc	elle:			ith S	afety								
Sold To) #: 3	4524	2		Shi	р То	#:	2822004	1		Quo	te #:					Sales	Ord	er#	: 780	1199)
Custon	ner: N	NOBL	E ENE	RGY	INC I	E-BU	SIN	ESS			Cus	tome	Re	p: Mc	CLE	LAND,	MIKE	=				
Well Na	ame:	Raile	SWD					We	#:	1	•					API/UW	VI #:					
Field:				Ci	tv (S	AP):	UNI	KNOWN		Cou	nty/Par	ish: (hev	enne			State	: Kar	ารสร			
Job Pu	rnose	a. D	lug-Los			<u>-</u>				L						L					_	
Well Ty								ob Type	• Pl	ua-l a	st Circ	ulatio	n Se	rvice								
Sales F								rvc Sup							MR	U ID En	nn #:	100	534			
sales F	<u>erso</u>	n. J	ACOB	5, JES	<u>ა</u>		3	ive Sup			Person		30/	114	INC	O ID LI	up π.	100	1004			
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	S Emp		ne l	Exp Hr		mp #	+,	HES E				xp Hrs		mp # 5445	- CV	LDIVAR				4		00534
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Stage T	ool	<u> </u>		L					 	- **		A - 4 1		1	centi	alizers						
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Saturday, November 27, 2010 18:05:00

HALLIBURTON

Cementing Job Summary

					Rates			
Circulating		Mixing	g		Displacement		Avg. Job	
Cement Left In Pipe	Amou	unt Oft	Reason	Shoe Joint				
Frac Ring # 1 @	ID	Frac ring	3 # 2 @	ID	Frac Ring # 3 @	ID	Frac Ring # 4 @	ID
The Informatio	n State	ed Herein	ls Cori		mer Representative Signa	ture		

Summit Version: 7.20.130 Saturday, November 27, 2010 18:05:00



Cementing Job Log

The Road to Excellence Starts with Safety

Sold To #: 345242	Ship To #: 28	22004	Quote #:	Sales Order #: 7801199
	NERGY INC E-BUSINES	S	Customer Rep: McC	CLELLAND, MIKE
Well Name: Raile SV		Well #: 1		API/UWI #:
Field:	City (SAP): UNKNO	OWN County	y/Parish: Cheyenne	State: Kansas
Legal Description:				
Lat: N 0 deg. OR N 0	deg. 0 min. 0 secs.		Long: E 0 deg. OR	E 0 deg. 0 min. 0 secs.
Contractor:	Rig/	Platform Name	e/Num:	
Job Purpose: Plug-L	ost Circulation Service			Ticket Amount:
Well Type: Developn	nent Well Job	Type: Plug-Los	st Circulation Service	
Salas Barson, IACO	DO IECO COM	Suparvisor: 9	MALII BAVICIAS	MBILID Emp #: 100534

Sales Person: JACOBS, JESS	SIVC 3	upervis	Rate	DIVAR, J			sure	10000-4
Activity Description	Date/Time	Cht	bbl/ min	Volu b	ume bl	p:	sig	Comments
		#		Stage	Total	Tubing	Casing	
Arrive At Loc	11/27/2010 12:00							
Safety Huddle	11/27/2010 12:10							
Rig-Up Equipment	11/27/2010 12:15							
Safety Meeting	11/27/2010 13:45							
Test Lines	11/27/2010 13:56					2745. 0		
Pump Gel Pill	11/27/2010 13:57		2	10		70.0		LCM GEL PILL
Pump Spacer	11/27/2010 14:02		2	10		74.0		CALCIUM CHLORIDE WATER
Pump Water	11/27/2010 14:05		2	5		59.0		
Other	11/27/2010 14:08		2	10	The state of the s	83.0		SUPER FLUSH
Pump Water	11/27/2010 14:20		2	10		82.0		
Pump Spacer	11/27/2010 14:22		2	10		76.0		CALCIUM CHLORIDE WATER
Pump Displacement	11/27/2010 14:25		4	50		76.0		WATER
Shutdown	11/27/2010 14:35							PRESSURE DROPPED. RIG PULLED DRILL PIPE OUT OF HOLE.
Standby Orders	11/27/2010 14:36							STANDBY FOR AN HOUR. FOR SECOND JOB.
Safety Meeting	11/27/2010 16:30							
Pump Gel Pill	11/27/2010 16:50		1.5	10		6.0		LCM PILL

Sold To #: 345242 Ship To #:2822004 Quote #: Sales Order #: 7801199

SUMMIT Version: 7.20.130 Saturday, November 27, 2010 06:05:00



HALLBURTON

Cementing Job Log

Activity Description	Date/Time	Cht	Rate bbl/ min		ume bl	I.	sure sig	Comments
		#		Stage	Total	Tubing	Casing	
Pump Spacer	11/27/2010 16:53		1.5	5		11.0		CALCIUM CHLORIDE WATER
Pump Water	11/27/2010 16:57		1.5	5		20.0	9	WATER
Other	11/27/2010 16:58		1.5	10		-5.0		SUPER FLUSH
Pump Water	11/27/2010 17:10		1.5	5		20.0		WATER
Pump Spacer	11/27/2010 17:12		1.5	10		21.0		CALCIUM CHLORIDE WATER
Pump Water	11/27/2010 17:14		1.5	50		16.0		WATER DISPLACEMENT
Shutdown	11/27/2010 17:30					-10.0		WELL WENT INTO VACUMM.
Safety Huddle	11/27/2010 17:35							
Rig-Down Equipment	11/27/2010 17:40							
Job Complete	11/27/2010 18:00							

Sold To #: 345242

Ship To #:2822004

Quote #:

Sales Order #:

7801199

SUMMIT Version: 7.20.130

Saturday, November 27, 2010 06:05:00



1738 Wynkoop St., Ste. 102 Denver, Colorado 80202 Phone: 303-296-3010 Fax: 303-298-8143 E-mail: bisonoil1@qwestoffice.net REF. INVOICE # 9409 LOCATION 5t. Flancis FOREMAN Randy Newton

TREATMENT REPORT

			11127	~ 1 1 1 1 L		OIII				
11-20-10 Ra	ile so	WELL NAME	/	SECT 6	1	TWP 45	RGE 41 W	cheve	UNTY	FORMATION
CHARGE TO NOS/c					OWNER /	Noble En	PIGV			
MAILING ADDRESS	37			-	OPERATOR		·			
CITY					CONTRACT	OR Excell	13 3			
STATE ZIP CODE				-			5 m;			-
TIME ARRIVED ON LOCATION	11:30	D.M.			TIME LEFT			· · · · · · · · · · · · · · · · · · ·		
		_ DATA					PRESSURE L	IMITATIONS		
HOLE SIZE 1214	TUBING SIZE		PERFORATIONS				THEOR	ETICAL	INS	STRUCTED
TOTAL DEPTH 3/7	TUBING DEPTH		SHOTS/FT		SURFACE P	IPE ANNULUS LONG				
	TUBING WEIGHT		OPEN HOLE		STRING					
CASING SIZE 95/8	TUBING CONDITI	ON			TUBING					
CASING DEPTH 308	PBtD 20	26	TREATMENT VIA	·		TYPE OF TREATM	IENT		REATMENT	RATE
CASING WEIGHT 36-11	PACKER DEPTH				[4]-SURFA	E PIPE		BREAKDOWN E	PM	
CASING CONDITION GOOD					[] PRODU	CTION CASING	\$	INITIAL BPM		
<i>J</i> .	PRESSURI	SUMMARY	Ł		[] SQEEZE	CEMENT		FINAL BPM		
BREAKDOWN or CIRCULATING p	si	AVERAGE	psi		[] ACID BI	REAKDOWN		MINIMUM BPM		
FINAL DISPLACEMENT p	si	ISIP	-psi-		[] ACID ST	TIMULATION		-maximum-bpn		
ANNULUS p	si	5 MIN SIP	psi		[] ACID SI			AVERAGE BPM		
MAXIMUM p	si .	15 MIN SIP	psi		[] MISC P					
мимим р					[_],OTHER				TE X PRESSURE	
NSTRUCTIONS PRIOR TO JO	OB MIR	4.5m	Circ . M	140		As of B	3-1:16	0 15,2	# Dergal	1 water
Tea of 4.78 60	al serst!	1 John	mix viell	1.1	3 cmft	persk Di	rop stu	dusta	11 20	5 KHC
water Shut	10 4.10	11 50	dans				-1 /2 /)	00.1	1C acu	17 200
Annalus . 3	131		.0773		•			•		
75% exies	55 as	>01	Tom Thon	195	Nob	le Rea				
OB SUMMARY DESCRIPTION OF JOB EVEN		,					Drop;	Sluz	Dis	place
	1:00	Pm.	5m 3:25pm	7')	724.	3 700a	3:4	(1) D.A.	5:	
shutin	R	16 dow			· f · · ·			<u></u>	3:5/10	
3: 68 m.		POCO					-	_	3.562,	
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In	1/12						//	<u>- 2</u> 0	10	÷
AUTHORÍZATION	N TO PROCEED			TITI	E		··		DATE	2.4

1738 Wynkoop St., Ste. 102 Denver, Colorado 80202 Phone: 303-296-3010 Fax: 303-298-8143 E-mail: bisonoil1@qwestoffice.net



SERVICE INVOICE

Nº 9411

WELL NO. AND	FARM	COUNTY		·	STAT	E	· · · · · · · · · · · · · · · · · · ·	DATE		
Kaile	5WD#1	Che	lerne			//- 28 - /d) CONTRACTOR				
CHARGE TO	Fnedsy	SEC.	CATION	TWP.)) TO	RANGE	1/W	Fxcell r.g		ĴĒ
				SHIPPED V	'IA			1 yuna LOCATION 2 St Francis	COL	ΣĒ
			TYPE AN	ID PURPOSI	E OF J	ОВ		LOCATION	COL	E
			Cen	went P	lug			3 Yuna WELL TYPE SWI)	CC	DDE
PRICE REFERENCE	DESCRIP	TION			,	QTY.	TS MEAS.	UNIT PRICE	AMO	UNT
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	1 all dans	Total Weight	Los	ded			Ton Miles			
	not paid within 30 days of invoice CHARGE will be made. Computed		TAX REF			·			7490	10
at a single monthl	NTAGE RATE OF 18%.	Tha	nd k	You				SUB TOTAL TAX	1770	
	AT"	XES WILL	BE ADDEI	AT CORPO	ORATE	E OFFICE"				
				,				TOTAL		
					A,	W	market market and a constitution of the consti	SUBJECT TO	CORRECT	ION

Bison Oil Well Cementing, Inc. Representative



1738 Wynkoop St., Ste. 102 Denver, Colorado 80202 Phone: 303-296-3010 Fax: 303-298-8143

E-mail: bisonoil1@qwestoffice.net

REF. INVOICE # 94/12

LOCATION St flan (1)

FOREMAN Randy Nowler

W			TRE	ATMEN	IT RE	PORT			
DATE /2-1-10 R a	ale so	WELL NAME		SEC	TION	TWP 45	RGE 4/W	che yern	FORMATION
CHARGE TO N 35/c /	Energy				OWNER	Noble			
MAILING ADDRESS	7/	-			OPERATO				
CITY					CONTRAC	OTOR Excell	1.13		
STATE ZIP CODE					DISTANCE	ETO LOCATION 65			· · · · · · · · · · · · · · · ·
TIME ARRIVED ON LOCATION	4:15 A.	۸			TIME LEF	T LOCATION 9	ITAM,		
7. /	WEL	L DATA	T			· · · · · · · · · · · · · · · · · · ·	PRESSURE I	•	
HOLE SIZE \$ 3/1/	TUBING SIZE		PERFORATIONS				THEOR	ETICAL	INSTRUCTED
TOTAL DEPTH 3250	TUBING DEPTH		SHOTS/FT	·		PIPE ANNULUS LONG	* . 1		
	TUBING WEIGHT	<u> </u>	OPEN HOLE		STRING				
CASING SIZE 7"	TUBING CONDIT		. ,		TUBING				
CASING DEPTH 3268	Hay 32	30	TREATMENT VIA			TYPE OF TREATM	IENT		TMENT RATE
CASING WEIGHT 2 3 12	PACKER DEPTH				[] SURFA		·	BREAKDOWN BPM	·
CASING CONDITION 50 · 1	PDECCUP	C CURALA DV				UCTION CASING		INITIAL BPM	
ODEANDOUN - ODCHI ATIMO		E SUMMARY				ZE CEMENT	·	FINAL BPM	· · · · · · · · · · · · · · · · · · ·
	osi .	AVERAGE	psi 			BREAKDOWN		MINIMUM BPM	
)Sİ		psi			STIMULATION	-	MAXIMUM BPM	
	osi Osi	5 MIN SIP 15 MIN SIP	psi		[] ACID :			AVERAGE BPM	
	osi	12 MIN 21	psi	<u> </u>	[] OTHE	 		HYD HHP = RATE X P	DECCHOE V 40 0
12.01 gal/sk 15/gal water, W/ 127 tobs	(19 5) (19 5) (19 5) (19 5)	15 ~ X 1 1 5 1 / sk	6 Stole yel	dor 1,	(+75) 4 1 0	0 11/ 1818 5 0 156/5 5/4 2.	y Sha	11 40 58 5 Adown a	B+1. 12 + 14.5
IOB SUMMARY DESCRIPTION OF JOB EVEN	ns MI	RU TAA.	Sm m Villan	4152	last No.	7100An	7:360r	-	, ,
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7:50 30 120		4/ 100							
7:53 40 120	*	21 110							
7:56 50 120		· 28 176							
7.58 40 170		,							
	:	8:32 17	7000						
8 30 70 120									
Ton TA	Tu.								
AUTHORIZATIO	N TO PROCEE)		TIT	LE			DATE	

1738 Wynkoop St., Ste. 102 Denver, Colorado 80202 Phone: 303-296-3010 Fax: 303-298-8143 E-mail: bisonoil1@qwestoffice.net



SERVICE INVOICE

Nº 9412

WELL NO. AND	FARM	COUNTY			STATI		· · · · · · · · · · · · · · · · · · ·	DATE						
Raile	SWD #1	Cheve	MAC		K	<u>S. </u>		12- /-/ CONTRACTOR	0					
CHARGE TO		WELL LO								·				
Nobi	Energy	SEC.	6	TWP.	15	RANGE	41W	Excell 1	3					
			Α,					LOCATION	COL)Ε				
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	,		TYPE A	ND PURPOS	E OF J	ОB		2 St. Flage. 5 LOCATION	COD	DE .				
								3 /u ma WELL TYPE						
			[I	1.		• :		CC	CODE					
			11-70 d	netio.	n/			SWD						
PRICE REFERENCE	DESCR	PTION				QTY.	TS MEAS.	UNIT PRICE	AMOL	UNT				
	Pump Charge					1	Ca	2000.00	2000	T .				
	mileace x 2 4/ne 7" Anto Cill Float	k s	650			1300	perm	3,00	390	00				
	7" ALLO KILL Klout	Shoe				/	09	435.00	1/35	00				
	7" Latch down >	lag		 ,			60 c('	3/5.00	3/5					
	7 (4014/21/28/15				-	5	e 4.	6000	300	00				
	N-60-12				.,	275 \$65	porsk	20.00	5500	 				
	36-111					40541	p. C. S.K	20.00	800	00				
	10 by mad Flash	:				1	en	750,00	150	130				
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	100 May	<u> </u>												
	the second secon	Total Weight		aded es			Ton Villes							
	not paid within 30 days of invoice CHARGE will be made. Computed		TAX REF	ERENCES					9890	00				
	y rate of 1½% which is equal to an NTAGE RATE OF 18%.						•	SUB TOTAL	1 2 7 6	-				
_::• ; _							_	TAX		<u></u>				
	"]	AXES WILL	BE ADDE	D AT CORP	ORATE	OFFICE"		7.	-					
								TOTAL	<u></u>					
				11/11	M	Name and the second of the sec		SUBJECT TO	CORRECTI	ON				

Bison Oil Well Cementing, Inc. Representative

Customer or His Agent