

Confidentiality Requested:

Yes No

Kansas Corporation Commission Oil & Gas Conservation Division

1163980

Form ACO-1
August 2013
Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License #			API No. 15	
Name:			Spot Description:	
Address 1:			SecTwpS. R 🗌 Eas	t West
Address 2:			Feet from North / South Line	of Section
City: Sta	ıte: Zi _l	p:+	Feet from	of Section
Contact Person:			Footages Calculated from Nearest Outside Section Corner:	
Phone: ()			□NE □NW □SE □SW	
CONTRACTOR: License #			GPS Location: Lat:, Long:	
Name:			(e.g. xx.xxxxx) (e.gxxx.x	(XXXX)
Wellsite Geologist:			Datum: NAD27 NAD83 WGS84	
Purchaser:			County:	
Designate Type of Completion:			Lease Name: Well #:	
☐ New Well ☐ Re-E	=ntrv	Workover	Field Name:	
	_		Producing Formation:	
☐ Oil ☐ WSW ☐ D&A	☐ SWD	∐ SIOW □ SIGW	Elevation: Ground: Kelly Bushing:	
☐ Gas ☐ D&A ☐ OG	GSW	Temp. Abd.	Total Vertical Depth: Plug Back Total Depth:	
CM (Coal Bed Methane)	G3VV	Temp. Abu.	Amount of Surface Pipe Set and Cemented at:	Feet
Cathodic Other (Core,	Expl., etc.);		Multiple Stage Cementing Collar Used? Yes No	
If Workover/Re-entry: Old Well Info			If yes, show depth set:	Feet
Operator:			If Alternate II completion, cement circulated from:	
Well Name:			feet depth to:w/_	sx cmt.
Original Comp. Date:			<u> </u>	
Deepening Re-perf.	Conv. to El	NHR Conv. to SWD	Drilling Fluid Management Plan	
☐ Plug Back	Conv. to G	SW Conv. to Producer	(Data must be collected from the Reserve Pit)	
O constituted	D		Chloride content:ppm Fluid volume:	bbls
☐ Commingled☐ Dual Completion			Dewatering method used:	
SWD			Location of fluid disposal if hauled offsite:	
☐ ENHR			Location of huld disposal if hauled offsite.	
GSW			Operator Name:	
_			Lease Name: License #:	
Spud Date or Date Read	ched TD	Completion Date or	Quarter Sec TwpS. R Eas	st West
Recompletion Date		Recompletion Date	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							
Confidentiality Requested							
Date:							
Confidential Release Date:							
Wireline Log Received							
Geologist Report Received							
UIC Distribution							
ALT I II III Approved by: Date:							

Page Two



Operator Name:				_ Lease I	Name: _			Well #:	
Sec Twp	S. R	East	West	County	:				
INSTRUCTIONS: Shopen and closed, flow and flow rates if gas to	ring and shut-in press o surface test, along v	ures, whe	ther shut-in pre chart(s). Attach	ssure reac extra shee	hed stati	c level, hydrosta space is neede	tic pressures, b	ottom hole temp	erature, fluid recov
Final Radioactivity Lo files must be submitted						ogs must be ema	liled to kcc-well-	logs@kcc.ks.go	v. Digital electronic
Drill Stem Tests Taker (Attach Additional		Y	es No			J	on (Top), Depth		Sample
Samples Sent to Geo	logical Survey	Y	es No		Nam	е		Тор	Datum
Cores Taken Electric Log Run			es No						
List All E. Logs Run:									
				RECORD	Ne				
	0: 11.1					ermediate, product		" 0 1	T 15
Purpose of String	Size Hole Drilled		ze Casing t (In O.D.)	Weig Lbs.		Setting Depth	Type of Cement	# Sacks Used	Type and Percer Additives
			ADDITIONAL	CEMENTI	NG / SQL	JEEZE RECORD			
Purpose:	Depth Top Bottom	Туре	of Cement	# Sacks	S Used Type and Percent Additives				
Perforate Protect Casing	Top Dottern								
Plug Back TD Plug Off Zone									
1 lug 0 li 20 lio									
Did you perform a hydrau	ulic fracturing treatment	on this well	?			Yes	No (If No, s	skip questions 2 a	nd 3)
Does the volume of the t			-		-		_ ` `	skip question 3)	
Was the hydraulic fractur	ing treatment informatio	n submitted	to the chemical of	disclosure re	gistry?	Yes	No (If No, 1	ill out Page Three	of the ACO-1)
Shots Per Foot			RD - Bridge Plug Each Interval Perl				cture, Shot, Ceme	nt Squeeze Recor	rd Depth
			Lacit interval i entrated			(Filliam and Fillia of Matorial Cood)			
TUBING RECORD:	Size:	Set At:		Packer A	t·	Liner Run:			
		0017111				[Yes N	o	
Date of First, Resumed	Production, SWD or EN	HR.	Producing Meth	nod:	g 🗌	Gas Lift (Other (Explain)		
Estimated Production Per 24 Hours	Oil	Bbls.	Gas	Mcf	Wat	er B	bls.	Gas-Oil Ratio	Gravity
DIODOCITI	01.05.040			4ETUOD 05	. 00145/	TION:		DDOD! ICT!	
DISPOSITION Solo	ON OF GAS: Used on Lease		N Open Hole	∥ETHOD OF Perf.	_		nmingled	PRODUCTION	ON INTERVAL:
	bmit ACO-18.)		Other (Specify)		(Submit		mit ACO-4)		

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/

Sam Brownback, Governor

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

October 18, 2013

Elizabeth Brinkmeyer Enerjex Kansas, Inc. 2038 S. PRINCETON ST., STE B OTTAWA, KS 66067

Re: ACO1 API 15-059-26510-00-00 Gilchrist BSP-GC11 SE/4 Sec.04-18S-21E Franklin 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, Elizabeth Brinkmeyer



261875

FOREMAN Fred Madu

DATE

PO Box 884, Chanute, KS 66720

FIELD TICKET & TREATMENT REPORT

620-431-9210	or 800-467-867	6		CEMEN				
DATE	CUSTOMER#		L NAME & NUME		SECTION	TOWNSHIP	RANGE	COUNTY
8-29-13	2579	Gilchris	st #BSP	GC 11	SE 4	18-	21	FR
CUSTOMER								L FR
MAILING ADDRI	riex Ros	1901C62 -	Lvc		TRUCK#	DRIVER	TRUCK#	DRIVER
					712	Fre Mad		
10975	5 Grand	view D.	^_		495	Har Bec		
CITY		STATE	ZIP CODE		369	Der mas		
Overla	ad Park	Ks	66210		510	5et 70C		
JOB TYPE La	maskring.	HOLE SIZE		' HOLE DEPTH	International Control of the Control	CASING SIZE & VI	1 7 m	
CASING DEPTH	11.	DRILL PIPE		TUBING		Casing Size & W		- EUE
SLURRY WEIGH	A Committee of the Comm	SLURRY VOL		Street Control of the	**************************************		OTHER	
DISPLACEMENT		DISPLACEMEN'		WATER gal/s	M	CEMENT LEFT In		Plus
	terretterreterreterreterreterreterre		Chicago Control Contro	MIX PSI	-	RATE SBP	n	· · · · · · · · · · · · · · · · · · ·
REMARKS: /-/	J la Green	SUTEN	merting.	E.5706	lich pung	ray. M	Dxx Pump	100
<u>(9.0)</u>	Linen- !	NX AND	mp 95	15145		Mix Can		
	Salt 12#	Thereo.	Seal /sk		out to S	urface.	Flush	
Ylmo	s clope		oce 2%	Rubh		tocarn	4 72 1	I Charles I was a second
<u>Press</u>	ove to	800	PSI, R	clease	. prock		sex \$10	
Value	· Shux	M cas	he	The state of the s		the state of the s	364 / /04	
			0	######################################				***************************************
	THE RESERVE OF THE PROPERTY OF	***************************************		***************************************				-
57	e Dvill	Ma				1.00	1 - 0	
		0				June 10	LOCAL	***************************************
ACCOUNT CODE	QUANITY	or UNITS	DES	CRIPTION of	SERVICES or PRO	DUCT	UNIT PRICE	TOTAL

ACCOUNT CODE	QUANITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE 495	***************************************	108500
5406	20 mi	MILEAGE	***************************************	NCAN
2402	695	Cosing footoge		NIC
5407	1/2 Minimum	Ton Miles 510		18450
5500C	1/2 hr	80 BBL Vac Truck 369		135-2
1127	94 sks	70/30 Por Mix Coment		
11188	266#	Premion Gal		12545 585
1661	191#	Granulated Salt	***************************************	7443
1107A		Pheno Seal		634
4402	<u> </u>	25" Rubber plug		2980

		- Complet		
3737		7,65%	SALES TAX	///3 ²

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 office for account records.

City		Operator License #	33741				15-059-265	0	
Address		Operator	Enerjex Kansas						
City		Address	~ · · · · · · · · · · · · · · · · · · ·						
Contractor JTC OII, Inc. Contractor JC OII, Inc. Contractor License 32834 Cement Data Cement Data		City	· · · · · · · · · · · · · · · · · · ·						
Contractor License # 32834		Contractor			Spud Date	a	8/28/2013		
T.D. of pipe 695		Contractor License #	· · · · · · · · · · · · · · · · · · ·		-	5	<i>v/ a v/ a v a v</i>		
T.D. of pipe 695 Surface pipe size 7" Surface pipe dept 20' Well Type Production Driller's Log Thickness Strata From To 5 5 Dirr 0 5 5 Lime 5 10 17 7 Shale 10 17 8 Lime 177 25 93 Shale 25 118 14 Shale 138 152 3 Lime 155 160 10 Lime 152 155 5 Shale 155 160 10 Lime 160 170 36 Shale 170 206 16 Lime 206 222 9 Shale 222 231 29 Lime 231 260 5 Black Shale 260 265 22 Lime 265 287 5 Coal 287 292 12 Lime 265 287 5 Coal 287 292 12 Lime 292 304 147 Shale 304 451 10 Lime 451 461 11 Shale 461 462 12 Lime 462 478 10 Shale 478 488 8 Sandy Shale 488 496 29 Shale 496 525 6 Lime 526 531 11 Shale 531 542 3 Lime 556 561 11 Shale 561 572 4 Lime 556 561 11 Shale 561 572 4 Lime 572 576 2 Lime 572 576							Sec 4	T 18	R 21
Surface pipe size 7" County Franklin E line					80046011	1835			
Surface pipe depth 20' County Franklin									
Well Type Production Driller's Log Thickness Stata From To 5 Dirt 0 5 5 Lime 5 10 7 Shale 10 17 8 Lime 17 25 93 Shale 25 118 20 Lime 118 138 14 Shale 138 152 3 Lime 152 155 5 Shale 155 160 10 Lime 160 170 36 Shale 170 206 16 Lime 206 222 9 Shale 222 231 29 Lime 231 260 5 Black Shale 260 265 22 Lime 265 287 5 Coal 287 292 12 Lime 265			- ·		County	200		L	iiie
Thickness Strata From To 5 Dirt 0 5 5 Lime 5 10 7 Shale 10 17 8 Lime 17 25 93 Shale 25 118 14 Shale 138 152 3 Lime 155 160 10 Lime 160 170 36 Shale 155 160 10 Lime 160 170 36 Shale 170 206 16 Lime 206 222 9 Shale 231 260 5 Black Shale 222 231 29 Lime 231 260 5 Black Shale 265 287 5 Coal 287 292 12 Lime 265 287 5 Coal 287 292 12 Lime 292 304 147 Shale 304 451 10 Lime 461 462 16 Lime 462 478 10 Shale 488 486 8 Sandy Shale 488 496 29 Shale 496 525 6 Lime 525 531 11 Shale 545 556 5 Lime 545 556 5 Lime 545 556 5 Lime 556 561 11 Shale 561 572 4 Lime 572 576 2 Lime 572 576 4 Lime 572 576 5 Lime 572 576		· · · · · · · · · · · · · · · · · · ·			County		Mankilli		
Thickness Strata From To 5 Dirt 0 5 5 Lime 5 10 7 Shale 10 17 8 Lime 17 25 93 Shale 25 118 20 Lime 118 138 14 Shale 138 152 3 Lime 155 160 10 Lime 160 170 36 Shale 170 206 16 Lime 206 222 9 Shale 222 231 29 Lime 231 260 5 Black Shale 260 265 22 Lime 265 287 5 Coal 287 292 12 Lime 292 304 147 Shale 304 451 10 Lime 461									
5 Dirt 0 5 5 Lime 5 10 7 Shale 10 17 8 Lime 17 25 93 Shale 25 118 20 Lime 118 138 14 Shale 138 152 3 Lime 155 150 10 Lime 160 170 36 Shale 170 206 16 Lime 206 222 9 Shale 222 231 19 Lime 231 260 5 Black Shale 260 265 22 Lime 265 287 5 Coal 287 292 12 Lime 292 304 147 Shale 304 451 10 Lime 451 461 1 Shale 462 478	Thickness		•	To					
5 Lime 5 10 7 Shale 10 17 8 Lime 17 25 93 Shale 25 118 20 Lime 118 138 14 Shale 138 152 3 Lime 152 155 5 Shale 155 160 10 Lime 160 170 36 Shale 170 206 16 Lime 206 222 9 Shale 222 231 29 Lime 265 287 5 Coal 287 292 12 Lime 265 287 5 Coal 287 292 12 Lime 292 304 147 Shale 304 451 10 Lime 452 478 10 Shale 462 478									
7 Shale 10 17 8 Lime 17 25 93 Shale 25 118 20 Lime 118 138 14 Shale 152 155 5 Shale 155 160 10 Lime 160 170 36 Shale 170 206 16 Lime 206 222 9 Shale 222 231 29 Lime 231 260 5 Black Shale 260 265 22 Lime 265 287 5 Coal 287 292 12 Lime 292 304 147 Shale 304 451 10 Lime 451 461 11 Shale 461 462 16 Lime 462 478 10 Shale 478 488 8 Sandy Shale 488 496 29 Shale 545 556 5 Lime 556 561 11 Shale 561 572 4 Lime 572 576 2 Lime 575 576 5 Ilme 575 576 5 Ilme 575 576 5 Lime 575 576 5 Lime 577 576 2 Lime 577 576									
8 Lime 17 25 93 Shale 25 118 20 Lime 118 138 14 Shale 138 152 3 Lime 152 155 5 Shale 155 160 10 Lime 160 170 36 Shale 170 206 16 Lime 206 222 9 Shale 222 231 29 Lime 231 260 5 Black Shale 260 265 22 Lime 265 287 5 Coal 287 292 12 Lime 292 304 147 Shale 304 451 10 Lime 451 461 1 Shale 461 462 16 Lime 462 478 10 Shale 478 488 8 Sandy Shale 488 496 29 Shale 496 525 6 Lime 525 531 11 Shale 304 254 11 Black Shale 545 556 5 Lime 556 561 11 Shale 361 572 4 Lime 572 576 2 Lime 572 576		•							
93 Shale 25 118 20 Lime 118 138 14 Shale 138 152 3 Lime 152 155 5 Shale 155 160 10 Lime 160 170 36 Shale 170 206 16 Lime 206 222 9 Shale 222 231 29 Lime 231 260 5 Black Shale 260 265 22 Lime 265 287 5 Coal 287 292 12 Lime 265 287 12 Lime 292 304 147 Shale 304 451 10 Lime 451 461 1 Shale 461 462 16 Lime 462 478 10 Shale 478 488 8 Sandy Shale 488 496 29 Shale 496 525 6 Lime 525 531 11 Shale 531 542 3 Lime 545 556 5 Lime 556 561 11 Shale 561 572 4 Lime 572 576 1 Lime 572 576 2 Lime 572 576 1 Lime 572 576									
20 Lime 118 138 14 Shale 138 152 3 Lime 152 155 5 Shale 155 160 10 Lime 160 170 36 Shale 170 206 16 Lime 206 222 9 Shale 222 231 29 Lime 231 260 5 Black Shale 260 265 22 Lime 265 287 5 Coal 287 292 12 Lime 292 304 147 Shale 304 451 10 Lime 451 461 1 Shale 461 462 16 Lime 462 478 10 Shale 478 488 8 Sandy Shale 488 496 29 Shale 496 525 6 Lime 525 531 11 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
14 Shale 138 152 3 Lime 152 155 5 Shale 155 160 10 Lime 160 170 36 Shale 170 206 16 Lime 206 222 9 Shale 222 231 29 Lime 231 260 5 Black Shale 260 265 22 Lime 265 287 5 Coal 287 292 12 Lime 292 304 147 Shale 304 451 10 Lime 451 461 1 Shale 461 462 16 Lime 462 478 10 Shale 461 462 16 Lime 462 478 8 Sandy Shale 488 496 29 Shale 496 525 6 Lime 525 531 11 Shale 531 542 3 Lime 542 545 11 Black Shale 545 556 5 Lime 556 561 11 Shale 561 572 4 Lime 572 576 2 Lime 572 576 2 Lime 572 576 2 Lime 572 576									
3 Lime 152 155 5 Shale 155 160 10 Lime 160 170 36 Shale 170 206 16 Lime 206 222 9 Shale 222 231 29 Lime 231 260 5 Black Shale 260 265 22 Lime 265 287 5 Coal 287 292 12 Lime 292 304 147 Shale 304 451 10 Lime 451 461 1 Shale 461 462 16 Lime 462 478 10 Shale 461 462 16 Lime 462 478 8 Sandy Shale 488 496 29 Shale 496 525 6 Lime 525 531 11 Shale 531 542 3 Lime 542 545 11 Black Shale 545 556 5 Lime 556 561 11 Shale 561 572 4 Lime 572 576 2 Lime 016 576 578									
S Shale 155 160 10 Lime 160 170 36 Shale 170 206 16 Lime 206 222 9 Shale 222 231 29 Lime 231 260 5 Black Shale 260 265 22 Lime 265 287 5 Coal 287 292 12 Lime 292 304 147 Shale 304 451 10 Lime 451 461 1 Shale 461 462 16 Lime 462 478 10 Shale 488 496 29 Shale 488 496 29 Shale 496 525 6 Lime 525 531 11 Shale 542 545 3 Lime 542 545 5 Lime 556 561 11									
10 Lime 160 170 206 16 Lime 206 222 9 Shale 222 231 29 Lime 231 260 5 Black Shale 260 265 22 Lime 265 287 5 Coal 287 292 112 Lime 292 304 147 Shale 304 451 10 Lime 451 461 1 Shale 461 462 16 Lime 462 478 10 Shale 461 462 16 Lime 462 478 10 Shale 488 496 29 Shale 496 525 6 Lime 525 531 11 Shale 531 542 3 Lime 542 545 11 Black Shale 545 556 5 Lime 556 561 11 Shale 561 572 4 Lime 572 576 2 Lime 0il 576 578									
36 Shale 170 206 16 Lime 206 222 9 Shale 222 231 29 Lime 231 260 5 Black Shale 260 265 22 Lime 265 287 5 Coal 287 292 12 Lime 292 304 147 Shale 304 451 10 Lime 451 461 1 Shale 461 462 16 Lime 462 478 10 Shale 478 488 8 Sandy Shale 488 496 29 Shale 496 525 6 Lime 525 531 11 Shale 531 542 3 Lime 542 545 5 Lime 556 561 11 Shale 561 572 4 Lime 572 576 2									
16 Lime 206 222 9 Shale 222 231 29 Lime 231 260 5 Black Shale 260 265 22 Lime 265 287 5 Coal 287 292 12 Lime 292 304 147 Shale 304 451 10 Lime 451 461 1 Shale 461 462 16 Lime 462 478 10 Shale 478 488 8 Sandy Shale 488 496 29 Shale 496 525 6 Lime 525 531 11 Shale 531 542 3 Lime 542 545 5 Lime 556 561 11 Shale 561 572 4 Lime 572 576 2 Lime Oil 576 578									
9 Shale 222 231 29 Lime 231 260 5 Black Shale 260 265 22 Lime 265 287 5 Coal 287 292 12 Lime 292 304 147 Shale 304 451 10 Lime 451 461 1 Shale 461 462 16 Lime 462 478 10 Shale 478 488 8 Sandy Shale 488 496 29 Shale 496 525 6 Lime 525 531 11 Shale 531 542 3 Lime 542 545 11 Black Shale 545 556 5 Lime 556 561 11 Shale 561 572 4 Lime 572 576 2 Lime Oil 576 578									
29 Lime 231 260 5 Black Shale 260 265 22 Lime 265 287 5 Coal 287 292 12 Lime 292 304 147 Shale 304 451 10 Lime 451 461 1 Shale 461 462 16 Lime 462 478 10 Shale 478 488 8 Sandy Shale 488 496 29 Shale 496 525 6 Lime 525 531 11 Shale 531 542 3 Lime 542 545 11 Black Shale 545 556 5 Lime 556 561 11 Shale 561 572 4 Lime 572 576 2 Lime Oil 576 578									
5 Black Shale 260 265 22 Lime 265 287 5 Coal 287 292 12 Lime 292 304 147 Shale 304 451 10 Lime 451 461 1 Shale 461 462 16 Lime 462 478 10 Shale 478 488 8 Sandy Shale 488 496 29 Shale 496 525 6 Lime 525 531 11 Shale 531 542 3 Lime 542 545 11 Black Shale 545 556 5 Lime 556 561 11 Shale 561 572 4 Lime 572 576 2 Lime Oil 576 578									
22 Lime 265 287 292 12 Lime 292 304 147 Shale 304 451 10 Lime 451 461 1 Shale 461 462 16 Lime 462 478 10 Shale 478 488 8 Sandy Shale 488 496 29 Shale 496 525 6 Lime 525 531 11 Shale 531 542 3 Lime 542 545 11 Black Shale 545 556 5 Lime 556 561 11 Shale 561 572 4 Lime 572 576 2 Lime Oil 576 578									
5 Coal 287 292 12 Lime 292 304 147 Shale 304 451 10 Lime 451 461 1 Shale 461 462 16 Lime 462 478 10 Shale 478 488 8 Sandy Shale 488 496 29 Shale 496 525 6 Lime 525 531 11 Shale 531 542 3 Lime 542 545 11 Black Shale 545 556 5 Lime 556 561 11 Shale 561 572 4 Lime 572 576 2 Lime Oil 576 578									
12 Lime 292 304 147 Shale 304 451 10 Lime 451 461 1 Shale 461 462 16 Lime 462 478 10 Shale 478 488 8 Sandy Shale 488 496 29 Shale 496 525 6 Lime 525 531 11 Shale 531 542 3 Lime 542 545 11 Black Shale 545 556 5 Lime 556 561 11 Shale 561 572 4 Lime 572 576 2 Lime Oil 576 578									
147 Shale 304 451 10 Lime 451 461 1 Shale 461 462 16 Lime 462 478 10 Shale 478 488 8 Sandy Shale 488 496 29 Shale 496 525 6 Lime 525 531 11 Shale 531 542 3 Lime 542 545 11 Black Shale 545 556 5 Lime 556 561 11 Shale 561 572 4 Lime 572 576 2 Lime Oil 576 578									
10 Lime 451 461 1 Shale 461 462 16 Lime 462 478 10 Shale 478 488 8 Sandy Shale 488 496 29 Shale 496 525 6 Lime 525 531 11 Shale 531 542 3 Lime 542 545 11 Black Shale 545 556 5 Lime 556 561 11 Shale 561 572 4 Lime 572 576 2 Lime Oil 576 578									
1 Shale 461 462 16 Lime 462 478 10 Shale 478 488 8 Sandy Shale 488 496 29 Shale 496 525 6 Lime 525 531 11 Shale 531 542 3 Lime 542 545 11 Black Shale 545 556 5 Lime 556 561 11 Shale 561 572 4 Lime 572 576 2 Lime Oil 576 578									
16									
10 Shale 478 488 8 Sandy Shale 488 496 29 Shale 496 525 6 Lime 525 531 11 Shale 531 542 3 Lime 542 545 11 Black Shale 545 556 5 Lime 556 561 11 Shale 561 572 4 Lime 572 576 2 Lime Oil 576 578									
8 Sandy Shale 488 496 29 Shale 496 525 6 Lime 525 531 11 Shale 531 542 3 Lime 542 545 11 Black Shale 545 556 5 Lime 556 561 11 Shale 561 572 4 Lime 572 576 2 Lime Oil 576 578									
29 Shale 496 525 6 Lime 525 531 11 Shale 531 542 3 Lime 542 545 11 Black Shale 545 556 5 Lime 556 561 11 Shale 561 572 4 Lime 572 576 2 Lime Oil 576 578									
6 Lime 525 531 11 Shale 531 542 3 Lime 542 545 11 Black Shale 545 556 5 Lime 556 561 11 Shale 561 572 4 Lime 572 576 2 Lime Oil 576 578		·							
11 Shale 531 542 3 Lime 542 545 11 Black Shale 545 556 5 Lime 556 561 11 Shale 561 572 4 Lime 572 576 2 Lime Oil 576 578									
3 Lime 542 545 11 Black Shale 545 556 5 Lime 556 561 11 Shale 561 572 4 Lime 572 576 2 Lime Oil 576 578									
11 Black Shale 545 556 5 Lime 556 561 11 Shale 561 572 4 Lime 572 576 2 Lime Oil 576 578									
5 Lime 556 561 11 Shale 561 572 4 Lime 572 576 2 Lime Oil 576 578									
11 Shale 561 572 4 Lime 572 576 2 Lime Oil 576 578									
4 Lime 572 576 2 Lime Oil 576 578									
2 Lime Oil 576 578									
4 Lime Oil 578 580	w.								
	4	Lime Oil	578	580					

2	Lime Oll/Shale	580	582				
4	Shale	582	586				
2	Oil	586	588	OK			
2	Oil	588	590	-			
2	Oil	590	592				
2	Good	592	594		*	,	
2	OK	594	596				
2	OK	596	598				
2	OK	598	600				
2	Little	600	602				
2	Little	602	604				
2	Tiny	604	606				
10	Sandy Shale	606	616				
42	Shale	616	658				
2	Sand/Little Oil	658	660				
2.	Sand/Little Oil	660	662				
2	Tiny	662	664				
8	Sandy Shale	664	672				
48	Shale	672	720				