

# Kansas Corporation Commission Oil & Gas Conservation Division

1085307

Form ACO-1

June 2009

Form Must Be Typed

Form must be Signed

All blanks must be Filled

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

OPERATOR: License #	API No. 15
Name:	Spot Description:
Address 1:	SecTwpS. R 🗌 East 🗌 West
Address 2:	Feet from North / South Line of Section
City:	Feet from _ East / _ West Line of Section
Contact Person:	Footages Calculated from Nearest Outside Section Corner:
Phone: ()	□NE □NW □SE □SW
CONTRACTOR: License #	County:
Name:	Lease Name: Well #:
Wellsite Geologist:	Field Name:
Purchaser:	Producing Formation:
Designate Type of Completion:	Elevation: Ground: Kelly Bushing:
☐ New Well ☐ Re-Entry ☐ Workover	Total Depth: Plug Back Total Depth:
Oil         WSW         SWD         SIOW           Gas         D&A         ENHR         SIGW           OG         GSW         Temp. Abd.           CM (Coal Bed Methane)         Cathodic         Other (Core, Expl., etc.):	Amount of Surface Pipe Set and Cemented at: Feet  Multiple Stage Cementing Collar Used?
If Workover/Re-entry: Old Well Info as follows:	sx cm.
Operator:	Drilling Fluid Management Plan (Data must be collected from the Reserve Pit)
Original Comp. Date: Original Total Depth:  Deepening Re-perf. Conv. to ENHR Conv. to SWD  Conv. to GSW	Chloride content: ppm Fluid volume: bbls  Dewatering method used:
Plug Back: Plug Back Total Depth	Location of fluid disposal if hauled offsite:
Commingled         Permit #:	Operator Name: License #:
☐ ENHR         Permit #:           ☐ GSW         Permit #:	Quarter Sec TwpS. R East West           County: Permit #:
Spud Date or Date Reached TD Completion Date or  Recompletion Date  Recompletion Date	

#### **AFFIDAVIT**

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

**Submitted Electronically** 

KCC Office Use ONLY
Letter of Confidentiality Received
Date:
Confidential Release Date:
Wireline Log Received
Geologist Report Received
UIC Distribution
ALT I II Approved by: Date:

Side Two



Operator Name:			Lease Name	e:			_ Well #:	
Sec Twp	S. R	East West	County:					
time tool open and clos	sed, flowing and shut s if gas to surface tes	I base of formations per in pressures, whether set, along with final chart well site report.	shut-in pressure	reached s	static level,	hydrostatic press	sures, bottom h	ole temperature, fl
Orill Stem Tests Taken (Attach Additional S		Yes No		Log	Formatio	n (Top), Depth an	d Datum	Sample
Samples Sent to Geolo		☐ Yes ☐ No	N	lame			Тор	Datum
Cores Taken Electric Log Run Electric Log Submitted (If no, Submit Copy)	I Electronically	Yes No Yes No Yes No						
List All E. Logs Run:			RECORD [		Used			
	Size Hole	Report all strings set- Size Casing	-conductor, surface Weight		ate, producti Setting	on, etc.  Type of	# Sacks	Type and Percen
Purpose of String	Drilled	Set (In O.D.)	Lbs. / Ft.		Depth	Cement	Used	Additives
		ADDITIONA	L OFMENTING (	00115575	DECORD			
		ADDITIONA	L CEMENTING / :	SQUEEZE	RECORD			
Purpose:  Perforate Protect Casing Plug Back TD Plug Off Zone	Depth Top Bottom	# Sacks Used	d	Type and Percent Additives				
Shots Per Foot		ON RECORD - Bridge Plu ootage of Each Interval Pe				cture, Shot, Cement mount and Kind of Ma	•	d Depth
TUBING RECORD:	Size:	Set At:	Packer At:	Line	r Run:	Yes No		
Date of First, Resumed I	Production, SWD or ENI	HR. Producing Me	thod:	Gas Li	ift C	Other (Explain)		
Estimated Production Per 24 Hours	Oil E	Bbls. Gas	Mcf	Water	В	bls. (	Gas-Oil Ratio	Gravity
DISPOSITIO	Used on Lease	Open Hole	METHOD OF COM Perf. D	MPLETION: ually Comp omit ACO-5)	. Cor	nmingled mit ACO-4)	PRODUCTIO	ON INTERVAL:
(If vented, Sub	mit ACO-18.)	Other (Specify) _						

# ATTACHMENT TO ACO-1 (DST, SAMPLE AND LOG TOPS AND PERF RECORD)

API #15-015-23936-00-00

Mills A-40

660'FSL,2310'FWL Sec. 22-25S-05E Butler County, KS

## **DST INFORMATION:**

DST #1 2414-2505 Zone: Viola(2491-2504)

Times: 30-45-45-60 1<sup>st</sup> open: ½" blow throughout

2<sup>nd</sup> open: None

Rec.: 20' OCM, 9% oil, 91% mud Tool: 12% Oil, 88% mud.

IHP: 1186 FHP: 1149 IFP: 50-44 FFP: 49-39

ISIP: 330 FSIP: 284 Temp: 98.7 degrees F

DST #2 2500-2520 Zone: Simpson

Times: 30-45-45-60

1<sup>st</sup> open: 4" in 6 min,9" in 13 min. btm bkt in 22 min no BB

2<sup>nd</sup> open btm bkt in 30 min no BB

Rec.: 292' TF: 2' oil, 290' SIOCWM (20' 3-0,32-W,65-M), 120'(1-O

9-W, 90-M) 150'(TR-O, 73-W, 27-M) Tool: 9% oil, 69% wtr, 22% mud. CHLORIDES- 12000

IHP: 1237 FHP: 1203

IFP: 55-133 FFP: 132-172

ISIP: 665 FSIP: 657 Temp: 101.8 degrees F

# **SAMPLE AND LOG TOPS**

	Geo Samples	Log Top
	KB-1346	KB-1346
Admire 550	521 +825	NONE
Admire 650	630 +716	632 +714
White CD LM	878 +468	879 +467
White CD SD	887 +459	887 +459
Oread	1361 -15	1361 -15
Heebner	1398 -52	1400 -54
Douglas SH	1430 -84	1431 -85
Douglas SD	1480 -134	1481 -135
Lansing	1679 -333	1679 333-
Lansing Base	1814 - 468	1814 -468
KC	1969 -623	1969 -623

	Geo Samples	Log Top
	KB-1346	KB-1346
Stark	2071 -725	2071 -725
B/KC	2125 -779	2124 -778
Checkerboard	2206 -860	2205 -859
Hepler SD	2227 -881	2227 -881
Altamont	2256 -910	2251 -905
Cherokee	2336 -990	2336 -990
Cher SQ SD	2381 -1035	2383 -1037
Ardmore LM	2410 -1064	2410 -1064
Viola	2491 -1145	2492 -1146
Simpson	2504 -1158	2504 -1158
Simpson SD	2507 -1161	2507 -1161
PTD	2520 -1174	2520 -1174

## **PERFORATION RECORD**

```
4 SPF 2514.5' - 2518.5' CIBP @ 2512'
```

4 SPF 2507-2510'

CIBP @ 2450'

4 SPF 2384-2388'

CIBP @ 2320' - drilled out

2 SPF 2227-2247'

2410-16' - sqz perfs

2384-88'; 2410-2416' – 225 sx Class A 2.5% cc

2227-2247' - 225 sx Class A 2.5% cc

#### Drill out to 2411' PBTD

4 SPF 2384-2388' CIBP @ 2340' - PBTD: 2411'

2 SPF 2227-2247' CIBP @ 1580'

Cmt perfs 814' - Circ. 200 sx Class A, 2% gel, 3-1/4% cc

PBTD: 780'

Perf Admire - 632-642' - 2 SPF

100 gal mud acid – 2514.5 – 2518.5°

100 gal mud acid - 2507-2510'

250 gal acid 285 bbl gel water - 11000# sand - 2384-88'

250 gal acid 450 bbl gel water - 25000# sand - 2227-47'

250 gal acid 200 bbl gel water - 7000# sand - 2384-88'

250 gal acid 284 bbl gel water - 14000# sand - 2227-47'

250 gal acid 232 bbl gel water - 7000# sand - 632-642'



#### **REMIT TO**

Consolidated Oil Well Services, LLC Dept. 970 P.O. Box 4346 Houston, TX 77210-4346 MAIN OFFICE
P.O. Box 884
Chanute, KS 66720
620/431-9210 • 1-800/467-8676
Fax 620/431-0012

MAY 0 2 2012

INVOICE Invoice # 249351

Invoice Date: 04/30/2012 Terms: 0/0/30,n/30 Page 1

VESS OIL CORPORATION 1700 WATER FRONT PKWAY BLD 500 WICHITA KS 67226 (316)682-1537 MILLS A 40 34357 22-25-5E 04-22-12 KS

Qty Unit Price Total Description Part Number 2242.50 14.9500 CLASS "A" CEMENT (SALE) 150.00 1104S 296.00 .7400 CALCIUM CHLORIDE (50#) 400.00 1102 2.3500 117.50 50.00 FLO-SEAL (25#) 1107 Total

Hours Unit Price Description 350.00 350.00 1.00 MIN. BULK DELIVERY 442 825.00 825.00 1.00 CEMENT PUMP (SURFACE) 446 .00 4.00 .00 EQUIPMENT MILEAGE (ONE WAY) 446

Parts: 2656.00 Freight: .00 Tax: 173.97 AR 4004.97

Labor: .00 Misc: .00 Total: 4004.97
Sublt: .00 Supplies: .00 Change: .00

Date

Signed





TICKET NUMBER	34357
LOCATION 180	
FOREMAN AMER	us toda

PO Box 884, CI	nanute, KS 6672	o FIEL	_D TICKET	& TREA	IMENT REP		/	
	or 800-467-8676			CEMEN	T API-1	5-015-239	136-00-00	2
DATE	CUSTOMER#	WELL.	NAME & NUME	BER	SECTION	TOWNSHIP	RANGE	COUNTY
ペークユーリン	28511	NAN	3 A-41	)	33	25	55	DUHER.
CUSTOMER	- 001	10.0						
WALLING ADDRES	35 ()71	corp.			TRUCK#c	DRIVER	TRUCK#	DRIVER
MAILING ADDRE	1.191.5	۸, م	Isian		446	July	*	
110000	iteleterant t	<del></del>	SOO ZIP CODE		442	MARK	<u> </u>	
CITY UPCH	PHA	STATE (	67206		207	LARRY		
JOB TYPE	tfuce B	HOLE SIZE	12-4	HOLE DEPTH	279	CASING SIZE & V	VEIGHT	8
CASING DEPTH	D271	DRILL PIPE		TUBING			OTHER	
SLURRY WEIGH	150 :	SLURRY VOL_		WATER gal/s	k	CEMENT LEFT in	CASING 30	<u> </u>
DISPLACEMENT	1/0.92	DISPLACEMENT	r PS1 <u>050</u>	MIX PSI(	2	RATE J.O	bl-	<u>'</u>
REMARKS: A	LOOKED OL	170 85	2 Cush	4 Brok	E Chan	Ruffour-	MPUATO	
150 x/s	A + Day	PHCh2	+ 14 16	VADAL-A	14015 - N	CEDMOED !	55 hole	4
Resc. On	- Creura	A dus	120 Deine	-/96	his Demi	0.70 1.71.0	1.2 0.0	Scalat
Commence			7		an market	wasu 4/ht	42.	TATICALI
				· · · · · · · · · · · · · · · · · · ·				
					· ·			
	<del></del>							
				· <del></del>			<del></del>	
ACCOUNT	OLIANITY.		ne	CODIDITION -	OCDWOED ** DD	IODUCT	I IIII DDIGE	TOTAL
CODE	QUANITY		DE	SCRIPTION OF	SERVICES or PR		UNIT PRICE	TOTAL
54015			PUMP CHARG	E			825.00	825.00
5406			MILEAGE					Ne
	_							
11045		151)	SKS A	-			14.95	2242.50
1102		4/20	Mrs CA	ch2			174	296.00
	:	50	1613 2011	<u> </u>			2.35	117.50
TIDI	•		1014	<del></del>				
			<del>                                     </del>					
			0.5/2	Selval			2000	75000
2407			ANIK Y	sextoen	7		350,00	350,00
						·		
			<del></del>	·				
						· · · · · · · · · · · · · · · · · · ·		
					· · · · · · · · · · · · · · · · · · ·			<del> </del>
						2. Alahad	-	3831,00
						WYDJH/	DALFOTAY	173.97
Havin 3737	<u> </u>		L	CHICA			SALES TAX ESTIMATED	1
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	<u> </u>			949E	<b>かり</b>		TOTAL	4004.91
AUTHORIZTION	Colt	ю́^.		TITLE			DATE	

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form

# Consolidated Oil Well Services, LLC

#### **REMIT TO**

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

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

Invoice # INVOICE \_\_\_\_\_\_\_

1 Invoice Date: 04/30/2012 Terms: 0/0/30, n/30Page

VESS OIL CORPORATION 1700 WATER FRONT PKWAY BLD 500 WICHITA KS 67226 (316) 682-1537

MILLS A40 34362 22-25S-5E 04-27-12 KS

MAY 0 4 2012

Qty Unit Price Total Description Part Number 19.2000 2400.00 125.00 THICK SET CEMENT 1126A 287.50 KOL SEAL (50# BAG) 625.00 .4600 1110A 500.00 1.0500 525.00 MUD FLUSH (SALE) 1144G 1.00 344.00 344.0000 FLOAT SHOE AFU 5 1/2" 4159 254.00 5 1/2" LATCH DOWN PLUG 1.00 254.0000 4454 229.0000 458.00 CEMENT BASKET 5 1/2" 2.00 4104 288.00 CENTRALIZER 5 1/2" 6.00 48.0000 4130 Total Hours Unit Price Description 1.00 350.00 350.00 MIN. BULK DELIVERY 502 205.00 1.00 205.00 ROTATING HEAD MISC 1030.00 1.00 1030.00 CEMENT PUMP 603

.00 Tax: 298.45 AR

4556.50 Freight: Parts: Labor:

6439.95

.00 Misc:

.00 Total:

Sublt:

6439.95

.00 Supplies:

.00 Change:

\_\_\_\_\_\_\_\_

Signed

Date

BARTLESVILLE, OK 918/338-0808

EL DORADO, KS 316/322-7022

EUREKA, KS 620/583-7664

PONCA CITY, OK 580/762-2303

OAKLEY, KS 785/672-2227

OTTAWA, KS 785/242-4044 THAYER, KS 620/839-5269

GILLETTE, WY 307/686-4914





TICKET NUMBER LOCATION\_ FOREMAN LAND

2 P - 204 Obamuia VS 66720	FIELD TICKET & TREATMENT REPORT
O Box 884, Chanute, KS 66720	CERRENT ADT - 18

320-431-9210	or 800-467-867	3		CEMEN	T APT-	15-015-3		
DATE	CUSTOMER#		ME & NUM	BER	SECTION	TOWNSHIP	RANGE	COUNTY
4-27-12	8511	MPlls	4	A 40	i2a	255	52	Butter
CUSTOMER	35 Of (	Perp			TRUCK#	DRIVER	TRUCK#	DRIVER
MAILING ADDRE	HER FROM	Pleiny RD	1500		603	LANNY		
CITY	10(	10 M E / 14	P CODE		502	Steve		196 11
JOB TYPE TO		HOLE SIZE	<del>78</del>	_ HOLE DEPTH TUBING	2520	CASING SIZE & V	OTHER 41	
SLURRY WEIGH	HT 15.0	SLURRY VOLS	rsi 8 <u>00</u>	WATER gal/s MIX PSI	)	RATE 80 6		3
REMARKS:	VANED !	25 sks Th & 19uss-	T-Mar	olaces	59 W/4 °	SOAL DEL		1250/br
Float	Margi							

ACCOUNT CODE	QUANITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401_		PUMP CHARGE	1030.00	1030.00
3701		MILEAGE		
1126A	125	Theek-set	19.20	SHOOLOD
	625	Ibs Kal-SEN	.46	287.50
11104	500	gals Mud Flush	1,05	515.00
		Rulk Deleverly	350.00	350,00
5401		Botat Plug oberato	205.00	205.00
2620		De la constitución de la constit		
		53 AFU Float Shor	344.00	344,00
4159		52 AFU Float Shoo	254.00	254.00
4454		55 Cement Brakets	219.00	458,00
4104		52 Centralizers	48.00	188.00
4130		Sol Campus ( Comp		
<del> </del>		Subtohil		6141,50
	<u></u>		SALES TAX	298.45
Ravin 3737		- AN 9KNY	ESTIMATED TOTAL	6439.95

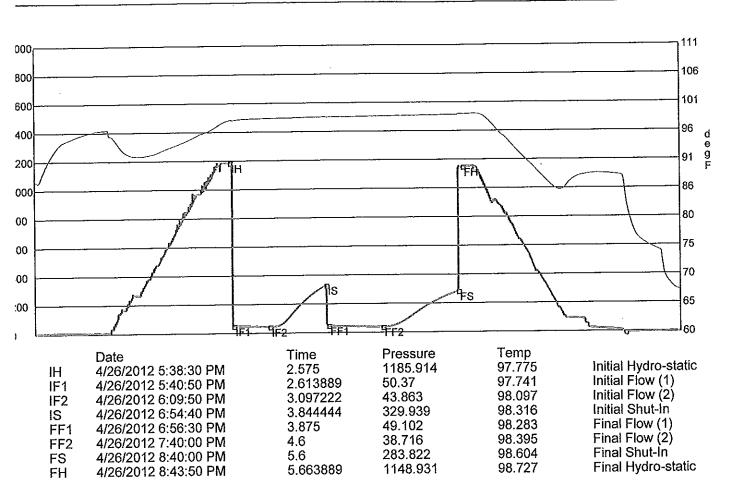
Bases bosto AUTHORIZTION\_

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form

RICKETTS TESTING				(620) 326-5830				Page 1		
Company Address CSZ Attn.	Vess Oil Corporation 1700 Waterfront Pkwy Bldg 500 Wichita, KS 67206 Roger Martin		Lease Name Mills A Lease # 40 Legal Desc E/2 SE SW Section 22 Township 25S County Butler Drilling Cont C & G Drilling #			Job Ticket <b>3475</b> Range <b>5E</b> State <b>KS</b>				
Comments	Field: El Dora	do				,				
GENERAL II	NFORMATIO	N								
Test # 1 Tester Test Type	Jimmy Rickett Conventional Successful Te	ts Bottom Hol	4/26/2012 e	Mid I	kes Recorder # Recorder # Recorder #		Hole	Size <b>7 7/8</b>		
# of Packers	2.0	Packer Siz	e <b>6 3/4</b>	Milea Stan	age dby Time	78 0	Appro	oved By		
Mud Type Mud Weight Filtrate	Gel Chem 9.3 8.4	Viscosity Chlorides	52.0 1100	Extra Time Tool		Jars & Safety - 2:40 PM 3:15 PM	Joint			
Drill Collar Len Wght Pipe Len					ation	1340.00	Kelle	/ Bushings 13	46.00	
Formation Interval Top Anchor Len Bel	Viola 2414.0 low 91.0 2505.0	Bottom Between	2505.0 0			e4/26/2012 3:04 4/26/2012 11:3				
Total Depth Blow Type			initial flow period.	No bl	low final fl	ow period.				
RECOVERY	,									
Feet Descripti			·	Gas		Oil	Wate	<u>r M</u>	ud	
20 Oil cut m 1 Oil cut m	iud iud in tool sampl	le		0% 0%	Oft Oft	9% 1.8ft 12% 0.1ft			% 18.2ft 8% 0.9ft	

DST Fluids





Page 2

#### AS FLOWS

in Into IFP Min Into FFP Gas Flows Pressure Choke

RICKETTS TESTING		(620) 326-5830		Pa	age 1
Company Address CSZ Attn.	Vess Oil Corporation 1700 Waterfront Pkwy Bldg 500 Wichita, KS 67206 Roger Martin	Lease Name Lease # Legal Desc Section Township County Drilling Cont	Mills A 40 E/2 SE SW 22 25S Butler C & G Drilling #1	Job Ticket Range State	3475 5E KS
Comments	Field: El Dorado				

GENERAL I	INFORMATIO	N						
Test # 2 Tester Test Type	Test Date 4/27/2012 Jimmy Ricketts Conventional Bottom Hole Successful Test			Chokes 3/4 Hole Size 7 7/8 Top Recorder # w1023 Mid Recorder # Bott Recorder # w1022				
# of Packers	2.0	Packer Siz	e <b>6 3/4</b>	Mileage Standby Time	78	Approved By		
Mud Type Mud Weight Filtrate	Gel Chem 9.4 8.4	Viscosity Chlorides	50.0 1100	Extra Equipmn	t Jars & Safety . 7:00 AM 8:00 AM	Joint		
Drill Collar Len Wght Pipe Ler				Elevation	1340.00	Kelley Bushings 1346.00		
Formation Interval Top Anchor Len Be	Simpson Sand 2500.0 elow 20.0	d Bottom Between	2520.0 0		e 4/27/2012 7:25 4/27/2012 2:43			

Weak blow building to strong blow 22 minutes into initial flow period. Weak blow building to strong blow 30 minutes into final flow period. Times: 30, 45, 45, 60.

RECOVERY

Total Depth Blow Type

2520.0

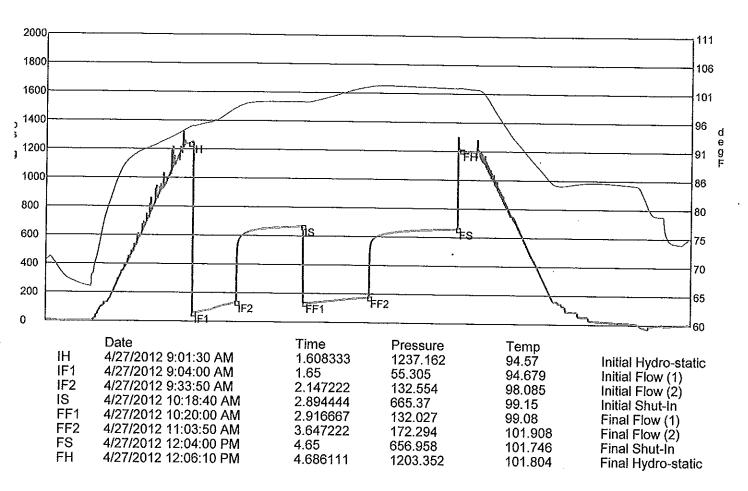
Fee	Description	Gas	Oil	Water	Mud
2	Clean oil Oil and heavy water cut mud Oil and water cut mud Oil and water cut mud Heavy mud cut water with trace oil Oil and heavy mud cut water in tool sample	0% Oft	100%2ft	0% 0ft	0% 0ft
20		0% Oft	3% 0.6ft	32% 6.4ft	65% 13ft
120		0% Oft	1% 1.2ft	9% 10.8ft	90% 108ft
150		0% Oft	trace	73% 109.5ft	27% 40.5ft
1		0% Oft	9% 0.1ft	69% 0.7ft	22% 0.2ft

**DST Fluids** 12000



(620) 326-5830

Page 2



# **3AS FLOWS**

<u>fin Into IFP</u> <u>Min Into FFP</u> <u>Gas Flows</u> <u>Pressure</u> <u>Choke</u>

COMPANY VESS OIL COR  LEASE MILLS 'A' #40  FIELD EL DORADO  LOCATION 660' FSL 2310'	FWL	316-250-6970 ORT	L <u>1340'</u> re All
SECTION 22 TOWNSHIP COUNTY BUTLER  CONTRACTOR C&G DRLC SPUD 04/21/2012 C RTD 2520' (-1174) L ELECTRIC	— STATE KANSAS  G, RIG #1  OMP 04/28/2012  TD 2520' (-1174)	CASING SURFACE 7 jts 8&5/8* 269' w/150 sx Class A, PRODUCTION 60 jts	23#/ft set @ 3% CC 5&1/2" 15.5#/ft
FORMATION TOPS  ADMIRE 550 ADMIRE 650 WHITE CLOUD LM WHITE CLOUD SD OREAD HEEBNER DOUGLAS SH	632' (+914) 630' (+716) 879' (+467) 878' (+468) 887' (+459) 887' (+459) 1361' (-15) 1361' (-15) 1400' (-54) 1398' (-52)	Set € 2519' ₩/125 sx 1  CHRONO  04/21/2012- Start drilling rathole hole started @ 1:30 PM. TD @ 2: Run 7 jts 8&5/8" 23#/Ft LS casing @ 269' KB. Consolidated Service Class A, 3% CC. Circulate cemen 04/22/2012- WOC @ 270' @ 7 Al	@ 12 PM. Surface 70' @ 11:30 PM. g, Tally = 261', set s cemented w/150 sx t, plug down @ 1 AM.
DOUGLAS SD LANSING BASE/LANSING KANSAS CITY STARK BASE/KANSAS CITY CHECKERBOARD HEPLER SD ALTAMONT CHEROKEE SQUIRREL SD ARDMORE VIOLA SIMPSON SH SIMPSON SD	1481' (-135) 1480' (-134) 1679' (-333) 1679' (-333) 1814' (-468) 1814' (-468) 1969' (-623) 1969' (-623) 2071' (-725) 2071' (-725) 2124' (-778) 2125' (-779) 2205' (-859) 2206' (-860) 2227' (-881) 2227' (-881) 2251' (-905) 2256' (-910) 2336' (-990) 2336' (-990) 2383' (-1037) 2381' (-1035) 2410' (-1064) 2491' (-1064) 2492' (-1146) 2491' (-1064) 2504' (-1158) 2504' (-1158)	pump engine. Drill out under surf 04/23/2012- DRLG @ 964' @ 7 A 04/24/2012- DRLG @ 1705' @ 7 04/25/2012- DRLG @ 2160' @ 7 04/26/2012- CIRC @ 2495' @ 7 A VIS 36, WL 8.8, LCM 2#, CI 800. Viola DST #1. 04/27/2012- RTD 2520' @ 7 AM. DST #2. MW 9.4, VIS 50, WL 8.4 CI 1100. Run open hole logs.	ace @ 2 PM.  I.M.  AM.  AM.  AM.  AM.  Short trip for
** E-Log tops by P. Ramondetta, Geologic,  REMARKS:	2520' (-1174) 2520' (-1174) VOC	04/28/2012: Run 60 jts 5&1/2" 15 J-55 casing = 2522.65', Plus float Total = 2523.65', Tag TD @ 252: Set @ 2519' KB. Rotate and circi 30 minutes. Consolidated mix an mud flush. 125 sx Thickset. Land Plug held.	t shoe = 1.00'. 0', pick up 1', ulate mud for d pump 500 gal
Respectfully submitted Roger L. Martin, Geolo			
DRILLING TIME LITH MIN/FT DST  -400	SAMPLE DESCRIPTION	REMAR	RKS
	SH: gy-gn & blk.  LS: cm-gy-tn-bf, dn-mx.  LS: lt- dk gy, mx- fnxl, sm argil & SH- SILTS: gy- blk  LS: tn-gy, dn- fnx & fos Pkst, Pr- NVP, NS.  SH: blk carb- Vcarb & gy-blk subcarb & gn-gy.		
-450   Rough to	LS: cm-tn-gy & gn-gy, dn- mx, sm wh-chlky, Pr- NVf sm fos w/NS.  SILTS: It-dk gy, micac & pyrto, sm sndy- Vfn Gr'd & SD CLUST: It gy, Vfn Gr'd, silty, micac, VPr- Pr Por,	SS-	
-500 -500	SH: It gy gn-gy, sm pyrto.  SH: Abndt gy-bk, subcarb-carb. & It gy, smiwxy, py SH.  LS: cm-bf-tn, mx- pred dn & argil, sm silty-sndy, Vfr  {ADMIRE 550} SILTS: gy-sndy. & SS-SD CLUST: Vfn Gr'd, silty-argil, sm calc & lmy, VPr-Pr Por, sub	521' (+825) ADMIRE 550	
-550	<5% Sitty Sd Clust w/FLR- STN- SI SFO & LS w/vu; fosmolde Por, IX Por w/STN- FLR- SFO, SI SFO & ( LS: cm-tn-gy, mx- fnxln, Rr md-Vers X's, sm grnlr & f Pkst & sm sndy, Pr- Fr Por: I.Gr Por, IX Por, fosmol w/SNT-FLR- SISFO, SI Odor. & SILTS: It gy, sm snd cale- Veale.	SI SFO	
	LS: cm-gy, mx & mGrnlr, sm argil, Pr- NVP.  SH: gy & gn-gy, sm pyrtc.  LS: tn-gy-bn, mx- fnx- dn.  SILTS- SS- SD CLUST: gy-tn-STN, Vfn Gr'd, <5% sw/FLR & SISFO & Cut, VSI Odor.  SILTS: lt-dk gy, micac, sm sndy: Vfn Gr'd, sm w/FLF	el ero	
	SFO- Cut. & SD CLUST: (~5%) gy-tn, Vfn-fn Grd, s well cmt'd to fribl w/Pr- Fr Por, subsat STN-FLR- SIS Cut.  SILTS: gy, sm sndy w/STN- FLR- SFO. ~5% <10% w/FLR- SFO- STN. SS- Vfn Gr'd.  {ADMIRE 650} SS- SD CLUST: gy-tn-STN, Vfn-fn G well cmt'd to fribl, silty- Vargil, Pr- Fr Por. ~5% <10% w/subsat- sat FLR- STN- SISFO, SI Odor. sm SILTS dk gy, micac, sm sndy w/FLR- SFO. VAbndt SH: mo gy, sm micac.	SI SFO 630' (+716) ADMIRE 650 SI SFO	
	SH: AA, sm SILTS: AA (VRr silty Sd Clust: AA w/FL STN- SFO- Cut. VAbndt SILTS & Silty SS (700' spl): It-md gy, Vfn G Vsilty & micac, VPr- Pr Por, >95% barren, VR r FLR- SFO- Cut, sm calc.	rd. Trc SFO	
-700	SH: (Incrs in 720' spl) gr-gy, Sitt & Sitty Sd Clust A. w/VPr-Pr Por, Pred barren. SH: tt-dk gy & gn-gy, sm micac. SH: dk gy-bk.	A	
-750	LS: cm-bf, mx, sm fos, VPr- Pr Por: pp- vug Por. NS SH- SILTS: It-dk gy, sm micac, sm sndy.  LS: cm-bf-tn, sm fos- Pkst, sm grnIr, Pr Por- NVP. SH: gn & gy & bk.	5.	
-800	LS: AA & dn mxw/ NVP, NS.  SH: gn & gy & bk & SILTS: AA.  LS: AA, NS.  SH: AA.  LS: AA. (820' spl)  SILTS- Sitty SS- SD CLUST: tt-md gy, Vfn Grd, sitty micac, VPr- Pr Por (Tro FLR- STN- SFO- Cut AA). > barren.		
-800	LS: cm-bf-tn, dn- mx- Vfnx, VPr- NVP.  SH: gy-blk & gn-gy, sm pyrtc.  LS: cm-bf, mx, sl fos, VPr- Pr P or, NS.		
-850	LS: cm-bf, mx, sl fos, VPr-PrPor, NS.  SH: gy, sm pyrtc, Rr blk carb.  LS: gy, mx- Vfnx, argil.  {WHITE CLOUD} LS: gy-tn, dn-mx, NVP.	878' (+468) WHITE CLOUD LM	
	{WHITE CLOUD} LS: gy-tn, dn-mx, NVP.  SILTS: gy, micac.  {WHITE CLOUD} SS- SILTY SS- SD CLUST: dk gy Gr'd, Vsitty, micac, SI pyrtc, VPr- Pr Por, NS. Abndt SILTS: gy- Vmicac.  SH- SILTS: gy, micac.	WHITE CLOUD LM 887' (+459) WHITE CLOUD SD	
-950	SH: pred md gy, sm It gy, micac.  SH: md-dk gy & gn, sm pyrtc.  LS: gy-bf-tn, dn- cryptox- mx, VPr- NVP.  SH: bk, sm carb & gn-gy v.gated.		
	LS: tn-gy, dn- fnx, VPr- NVP, NS.  SH: AA, Incrs gn-gy.  LS: tn-gy-cm, dn- fnx, sm fos, Pr- NVP, NS.  SILTS- Silty SS: It gy, Vfn Gr'd, silty, micac Sd Clust w/VPr- Pr Por, NS. & SILTS: micac, sm sndy.	<b>t</b>	
	SILTS: It gy, micac, sndy. & SH: gn-gy & blk.  SH- SILTS: gy, micac.  SH- SILTS: AA.		
	LS: cm, m× fos- Pkst Pr Por, NS.  LS: Abndt cm-tn, mx- fnxln, sm fos & ool Pkst, Pr- F	r Por.	
	SH: dk gy- bk, micac.  SILTS: gy- blk, micac, sm calc.  LS: cm-tn, dn- mx- fnxln, Pr- NVP, NS. SI Cherty. & gn-gy.	SH:	
		: pp Trc SFO	
	LS: cm-tn, mxln- fnxln, VR r mdX's- 2RX, sm sl dolor sucro, sm fos- Pkst, Pr- Fr Por: pp Por, IX Por, I.Gr sm spt'd- sat FLR, VR r STN, VSISFO.		
	DLS: cm-bf-tn, Vfnxln, sucr, Pr- Fr Por: IX Por, vug l VRr Gd Por, spt'd- sat FLR- STN & VSISFO, SI odo Abndt FLR, VSISFO (~20% w/SFO- FLR). SH: gn-gy & blk. & LS: AA, Pkst & DLS AA, ~10% w Trc SFO.	Tre SFO	
-1250	Por, IX Por, pp- vug Por, ~10% w/FLR, Trc SFO.  LS: cm-tn, mxln- fnxln, sm sucro, dolomo & sm fos- w/Fr Por: IX Por, pp- vug Por, I.Gr Por, I.fos Por, VF Por. ~10% w/FLR, Trc SFO, Rr prt mcxln- 2RX, sm chlky, ~90% barren.	Pkst Trc SFO	
-1300	LS: cm-tn, mx-fnxln, VRr prt mdxln- crsxln- 2RX, sn & fos Pkst, Fr- Gd Por: IX por, pp Por, vug Por, ool fosmldo Por, >99% barren, tro FLR- Tro SFO- STN, Odor, sm wh-chlky.	& SI	
	SH: md-dk gy, micac. SH- SILTS: It-dk gy, micac.		
-1350	{OREAD} LS: cm-tn-gy, mx- fnxln, sm IX Por & pp P mPor. NS. (1400' spl) LS: cm-tn-gy, sm mot, mx- Vfnxln, sm fos & ool Pks CHERTY: cm-tn-gy, shrp, sm sl fos. sm wh-chky LS visbl Por.	t.	
	{HEEBNER} SH: blk carb- Voarb, sm gn-gy.  LS: tn dn Mdst.  SH: AA, sm lt- dk gn.  LS: tn-wh, dn- mx- fnx, sm fos Pkst, Rr chky, Pr- N\ NS.	1398' (-52) HEEBNER √P,	
-1450	{DOUGLAS} SH- SILTS: It dk gy & gn-gy, sm micar LS: VR rargil Mdst. SH- SILTS: dk-It gy, sm micac, sm Silts.	1430' (-84) DOUGLAS SH	
	SILTS: It- dk gy, micac, sm sndy, Vfn Gr'd, trc FLR-SFO  {DOUGLAS} SS- SD CLUST: gy-tn- STN, Vfn Gr'd, micac, well cmt'd- fribl w Pr- Fr I.Gr Por, ~10% w bri SI SFO, SI- Fr Cut, VSI Odor. >5% <10% w subsat- s STN.  SS- SD CLUST: gy- wh, Vfn Gr'd, silty, micac, pred	silty, t FLR, sat 1480' (-134) DOUGLAS SD SFO	
	cmtd w/vPr- Pr Por, <5% w/FLR- SFO- STN & Cut spl). & SILTS: It-dk gy, micac & sm sndy.  SH: md-dk gy, sm micac, sm SILTS: AA, VRr Sd Cli SH: gy- blk & SILTS: It-dk gy, micac, sm sndy, Vfn	ust.	
-1550	Pred SH: gy- bk.  LS: tn-gy, dn- m×- fn×, VPr- NVP.		
-1600	SH: It-dk gy & gn-gy & bk, SI pyrtc.  SS-SD CLUST: gy-wh-bf, Vfn-fn Gr'd, well cmt'd to Pr-Fr Por, NS.  LS: cm-tn, mx-fnx, sm dn, sm sndy-silty, Pr-NVP,		
-1650	SS- SD CLUST: AA, Vfn Gfd, Pr- Fr Porw/NS, NF, SH: gy- blk, sm micac. SH: dk gy- blk & gn-gy & gy-bn.	NC.	
-1700	{LANSING} LS: cm-tn-wh, mx-fnx & dn, sm Pkst w/NVP, NS.  LS: cm-tn-gy, wh, mx-fnx & dn, sm chlky, sm Pkst, \NVP, NS.	2000	vis 34 vis 35 wt 9.0 LCM 2#
	LS: tn, dn- fnx, sm argil- shly & SH: gn-gy & rd.  LS: tn-gy-wh, pred dn- mx, sm grnlr w/VPr- NVP, NS  LS: cm-bf, mx- Vfnxln, Abndt grnlr Pkst- Grst w/Fr- (I.Gr Por. VRr FLR, Trc SFO, >99% barren, sm mx-) dolomo w/Fr IX Por, Tro SFO- FLR, >99% barren. & wh-chlky, s1 CHERTY: wh-bf, shrp, frsh.	Gd Trc SFO	
	LS: tn-gy-wh, pred dn- mx- fnx w/Pr- NVP, NS.  LS: cm-tn-gy, mot, mx- fnxln, sm fos Pkst, sm 2nd R Pr IX & I.Gr Por, NS, sm wh-chlky.	teX.	
-1800 	LS: tn-gy-wh, dn.  LS: tn-wh, mx- fnxln, sm mot Pkst- granlr w/Pr- Fr P I.Gr Por, IX Por, NS. sm wh-chlky.  LS: tn-wh, dn- mx- fnx, VPr- NVP, NS. & LS: gy-dk t Vfnxln, argil- shly, VPr- NVP, NS. & SH: gn-gy.  {BASE/LANSING} LS: gy, argil- silty- shly, VPr- NVP	1814' (-468)	
-1850	SILTS- SH: gy & gn-gy, sm calc & lmy.  SILTS: dk- It gy, calc , sm lmy.  SILTS- SH: dk gy, sm calc, micac.		
C -1900	SH- SILTS: AA, Incrs SH.  SH: Pred dk gy, Rr bk carb.  SH: gy- blk, sm micac.		
-1900	SH: dk gy, s1 micac, sm calc.  SH: pred dk gy, s1 micac, sm calc.  SH: AA.		
Rough  -1950  Rough  -1950  Rough	SH: AA.  SH: dk gy-bk & gn-gy, VSI pyrto & SI micac.  {KANSAS CITY} LS: gy-tn-wh, sm mot, dn & mx, sm VPr- NVP.  LS: wh-gy-tn OSTN, mx-fnxln, sm md- VcrsX's- 2Re	SI SFO	vis 35 wt 9.2 LCM 1#
-2000	LS: wh-gy-tn OSTN, mx-fnxln, sm md-VcrsX's-2Rr fos Pkstw/Fr- Gd Por. >40% w/FLR, spt'd- sat It-md OSTN, SISFO, SF Fr Cut& Fr Odor.  LS: cm-tn, dn- mx-fnx&chlky. ~10% w/mFrac & Ed IX Por w/FLR, VSISFO & Cut  LS: wh-tn, mx-fnx, prt chlky, Pr-VRr Fr Por: IX Por, Por, ~5% w/FLR, VSISFO & Cut, VSI Odor, <5% w. SICut. CHERTY: wh-cm, shrp  LS: tn-gy-wh, mx-Vfnxln, sm Pkst, prt chlky, <5% w. SFO & It tn STN, pp Por, I.Gr Por & IX Por, >95% b. SICherty.	VSI SFO VSI SFO VSI SFO VSI SFO VSI SFO	vis 39 wt 9.2
-2050		Por, ut. Trc SFO Trc SFO	vis 39 wt 9.2 LCM 2#
	LS: tn-gy-wh, dn- mx- fnx & chlky, VPr- Pr Por, tro F tro SFO, >99% barren.  {STARK} SH: blk subcarb- Voarb.  LS: wh-tn-gy, prt chlky, & mx- Rr fnxln, sm Pkst: fos ool, Pr- Fr Por: pp- ml.Gr Por & IX Por & mFrac Por w/FLR, VSISFO & Cut, tro It tn STN. CHERTY: omblu-gy, opq, shrp.  {HUSHPUCKNEY} SH: blk carb- Voarb.  LS: wh-tn-gy, sm prt chlky, sm grnlr Pkst, SI Cherty.	2071' (-725) STARK Trc SFO	Work on mud pump
-2100	\$18.00 \$7.000 WAS \$10.000 WAS \$10.000	/P. 2125' (-779) BASE/KANSAS CITY	
	SILTS: gy & gn-gy, sm calc & lmy & pyrtc. Rr LS: cn mx- fnx, sm pyrtc, Pr- NVP, NS. SILTS: gy & gn-gy, sm calc & lmy, micac & sndy. SILTS- SH: md- dk gy, micac, sm calc, Rr pyrtc.	n-tn,	vis 34 wt 9.3 LCM 1/2#
-22002200	SILTS: SH: md- dk gy, micac, sm calc, Rr pyrtc.  SILTS: AA, SI Incrs pyrtc.  LS: gy-tn, dn, cryptox- fnx, argil- shly Mdst, VPr- NV  SH: gn-gy, sm calc & lmy.  {CHECKERBOARD} LS: tn & cm & gy, dn & mx- vfn pred Mdst, sm Wkst- Pkst, sm argil- shly, VPr- NVP,	2206' (-860) CHECKERBOARD	
CES — -2250	SILTS: It- dk gy & gn-gy, micac, sm sndy- calc, sm ; & SH: gn-gy, pyrtc.  {HEPLER} SILTY SS- SD CLUST: gy-tn- STN, Vfn VRr Vfn- fn Gr'd, Vsilty, well cmt'd, subfribl w/Pr vist Rrs at STN (~10% Sd), Fr SF O& B in 2250' drlg sp SS- SD CLUST: AA, Incrs fn Gr'd, fribl w/Gd Por, Fr & GB & Fr Odor.  LS: gy, argil, dn.	2227' (-881) HEPLER SD Fr SF OGB Fr SF O- GB	
To	{ALTAMONT} LS: cm-tn-gy, sm mot, dn- mx- Vfnx, sgrnlr Pkst, Pr- NVP, & SH: blk carb & gy.  LS: AA, & tn-gy, pred dn, sm argil.  SH: gy- blk, sm pyrto, sm lt- dk gn-gy.  SH: AA, pred gy- blk, sm calc & lmy SH.  {PAWNEE} LS: tn-gy-wh, pred dn- mx, sm Pkst, sm	sm ALTAMONT	
-23002300	{PAWNEE} LS: tn-gy-wh, pred dn- mx, sm Pkst, sm VPr- NVP, NS.  LS: tn-gy, cryptox- fnx & dn Mdst, sm argil. Abndt Sl bk & bk carb.  LS: AA & gy-bn, dn- fnx.  SH: VAbndt bk carb- Vcarb.  LS: tn-gy-bn, dn- mx & argil. SH: AA & gn-gy.  LS: tn-gy-wh, dn- mx, sm Pkst, sl fos & Wkst, sm argil.	H: gy-	vis 37 wt 9.3 LCM 2#
Round		2336' (-990) CHEROKEE	vis 37 wt 9.3 LCM 2# vis 35 wt 9.3
-2400 Rough 5 10	SH- SILTS: dk- ft gn-gy, Rr blk carb.  SILTY SS: gy, pred Vfn Grd, Vwell cmt'd- calc, mic.  VPr Por.  {SQUIRREL} SS- SILTY SD CLUST: sm ft- md gy, p STN, Vfn Grd, VRr Vfn- fn Grd, rnd'd- anglr, well cr fribl w/Pr- Fr l. Gr Por. >50% sat rch Tn STN & sm s subsat STN & FLR, Fr SFO- Gsy.  SH: pred dk gy- blk, sm carb, trc Sd Clust, AA.	2381' (-1035) SQUIRREL SD Fr SF O  2410' (-1064)	vis 35 wt 9.3 LCM 2#
Rough C	{ARD MORE} LS: tn-gy-wh, pred dn- mx Mdst- Wkst Pkst, sm argil- shly, Rr wh- chlky. SH: blk carb- Vcarb. LS: tn-gy-bn, dn Mdst. & SH: dk- lt gn-gy & blk. & SILTS: lt- dk gy & gn-gy, sm calc & lmy, pred mice sndy. Rr LS: gy- blk, dn Mdst& tn-gy-bn dn hd LS.	ARDMORE	
24502450	SH: vgt'd, sm Imy & calc,  SH: vgt'd, turq-gn & rd-mrn & violet, tro CHERT: tn- vit, shrp, frsh.  SH: vgt'd, pred gn-gy & mrn-rd.  SH: dk gy- bk.  SH: md- dk gy-bn-blk, sm phos, sl pyrto.	bn, vis 50 wt 9.5 LCM 3#	DST #1 VIOLA 30-45-45-60 1st Op: 1/2" blo throughout 2nd Op: None REC: 20' OCM (9%O,91%M) TOOL SPL: 12%O,88%M IHP: 1186# IFP: 50-44 ISIP: 330# FFP: 49-39#
L-Roll L-	SH: gy-bn-bk, sm phos, Incrs pyrtc.  {VIOLA} DOLO: cm-bf-tn-STN, mx-Vfnxln, dn & su Pr-Fr IX Por, ~50% sat FLR-STN-Fr SFO&GB-strr Odor, pyrtc. (2495' spl} DOLO: AA, SI Incrs Vfnxln, s w/Fr-Gd Por, sat STN-FLR-Fr-Gd SFO, Frly Strn, Odor, pyrtc, SI Cherty. (2505' spl} DOLO: cm-tn, mx vug Por, VR rqtz Chert w/sat STN-FLR, Gd SFO, tr Simp Sd.  {SIMPSON} SH: turq-gn, sndy. {SIMPSON} SS-SD CLUST: wh-transl, Vfn-fn G'd, cm'd w/spl'd-sat STN-FLR-SFO & Vfn-md G'd, w rnd'd, fribl w/Fr-VGP Por, pred sat STN, VRr barren dd STN. (2515' 15 min spl} ~60% SS-SD CLUST: w tn-STN, pred Vfn-fn G'd, Rr prt md G'd, well md'd- subanglr, pred Vwell-well cmt'd, Pr-Fr Por w/spl'd- SNT (<10% w/sat Tn STN), sm barren Sd Clust w/P	MOLA Fr SF O-GB Fr- Gd SF O-GB SIMPSON SH 2507' (-1161) Well SIMPSON SD Fr- Gd SF O-GB Fr- Gd SF O-GB Fr- Gd SF O-GB 2520' (-1174) LTD/RTD	FFP: 49-39# FSIP: 284# FHP: 1149# BHT 98.7 F  DST #2 SIMPSON 30-45-45-60 1st Op: 4" in 6 min, 9" in 13 min, BOB in 22 min, no BB 2nd Op: BOB in 30 min, no BB REC: 292' TF,
0 5 10		r Por, pyrto.  I to FO. FLR & Ilnors & Fr- & Tn d. pred R, Fr- dd, ST:	REC: 292' TF, 2' OIL 290' SIOCWM TOOL SPL: 9% 0,69% W, 22% M IHP: 1237# IF P: 55-133 ISIP: 665# FE P: 132-172 FSIP: 657# FHP: 1203# BHT: 101.8 F
-2600		VESS OIL CORP MILLS A 40 660' FSL 2310' FWL SEC 22-25S-05E BUTLER CO., KS API#15-015-23936	444444444444444444444444444444444444444
-2600			1