

Kansas Corporation Commission Oil & Gas Conservation Division

1099517

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
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? Yes No If yes, show depth set: Feet If Alternate II completion, cement circulated from: sx cmt
Operator:	
Well Name:	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:
Dual Completion Permit #:	Lease Name: License #:
SWD Permit #:	Quarter Sec Twp S. R
☐ ENHR Permit #: ☐ GSW Permit #:	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 III 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	Perforate Top Bottom Type of Cernetit Protect Casing Plug Back TD		# Sacks Used Type				and Percent Additives			
Shots Per Foot		ON RECORD - Bridge Plu ootage of Each Interval Pe								
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	ols. (Gas-Oil Ratio	Gravity		
DISPOSITIO	Used on Lease	Open Hole	METHOD OF COM Perf. D (Sub	MPLETION: ually Comp omit ACO-5)	. Cor	nmingled mit ACO-4)	PRODUCTIO	DN INTERVAL:		
(If vented, Sub	mit ACO-18.)	Other (Specify) _								



10244 NE Hwy. 61 P.O. Box 8613 Pratt, Kansas 67124 Phone 620-672-1201

FIELD SERVICE TICKET 1718 06575 A

PRESSURE PUMPING & WIRELINE DATE TICKET NO. DATE OF JOB NEW WELL PROD □INJ ☐ CUSTOMER ORDER NO.: ☐ WDW -18-12 DISTRICT CUSTOMER L.D Pr: 11ing WELL NO. COUNTY BARTON 15-19-1STATE KS **ADDRESS** SERVICE CREW Allow, Eric, Ople CITY STATE Sur Face **AUTHORIZED BY** TRUCK CALLED 9-18-DATE **EQUIPMENT#** HRS **EQUIPMENT#** HRS **EQUIPMENT#** HRS ARRIVED AT JOB 9-18-12 28443 8.4 1/2 33708-20920 START OPERATION 9-19-12 PM 20959-19918 1/2 FINISH OPERATION 9-18-12 PM RELEASED 9-18-12 MILES FROM STATION TO WELL 6

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

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

SIGNED: (WELL OWNER, OPERATOR, CONTRACTOR OR AGENT) ITEM/PRICE REF. NO. MATERIAL, EQUIPMENT AND SERVICES USED UNIT QUANTITY UNIT PRICE \$ AMOUNT 60/40 Poz 350 4200 00 Cell FIAKE 16. 88 CC 102 903 CF163 SA \$ 160 60 255 E101 120 1444 903 5113 27200 1000 Plug container Utilization C Service Supervisor first ghrs. Jok 5003 SUB TOTAL CHEMICAL / ACID DATA: **SERVICE & EQUIPMENT** %TAX ON \$ **MATERIALS** %TAX ON \$ TOTAL

SERVICE
REPRESENTATIVE

16 Ma	0	1.1-0	
Ulle	4.	Wester	

THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY:

/ICE
ECEIVED BY:
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)





Lease No. Date Lease Well # Field Order # County Legal Description Type Job Formation 394 PIPE DATA PERFORATING DATA **FLUID USED** TREATMENT RESUME **Tubing Size** Shots/Ft Casing Size Depth/89 Max 5 Min. Depth Pre Pad To From Pad 10 Min. Volume Min From To 15 Min. Frac Avg Max Press To From HHP Used Well pannection Annulus Pressure Annulus Vol. From To Plug Depth, Packer Depth Gas Volume Total Load 120 То From Customer Representative Station Manager Service Units Driver FFIC Names Time Pressure Bbls. Pumped Rate Pressure 530 600 607 700 200 710 76 250+ 815 10244 NE Hiway 61 • P.O. Box 8613 • Pratt, KS 67124-8613 • (620) 672-1201 • Fax (620) 672-5383

BASIC 10244 NE Hwy. 61 P.O. Box 8613 Pratt, Kansas 67124 Phone 620-672-1201

FIELD SERVICE TICKET

1718 06605 A

	RE PUMPING &			/2-1201			DATE	TICKET NO.				
DATE OF 9-23-12 DISTRICT PraTT					NEW P C	VELL F	PRÓD INJ	□ wbw		JSTOMER RDER NO.:		
CUSTOMER L D. Drilling 7					LEASE Keith 175 WELL NO.							
ADDRESS	*10-11				COUNTY	Per	Bar Bar	+0 % STATE	15	5		
CITY		STATE		186	SERVICE CR	ew E	mynde	REE	0	Mel	SON	
AUTHORIZED BY					JOB TYPE: (nu	P	T4				
EQUIPMENT#		EQUIPMENT#	HRS	EQU	IPMENT#	HRS	TRUCK CAL		9.2	PM 9	ME	
19889 - 19843	le l				•		ARRIVED AT		9-2:		15	
37586	-						START OPE		9-2	3 AM)	150	
			100				FINISH OPE	RATION	9-23		15	
				-			RELEASED		9.2	AM 3	15	
							MILES PHON	A STATION TO	O WELL	- 60		
products, and/or supplies in become a part of this contra	cludes all of and e act without the wr	only those terms and co litten consent of an office	onditions a cer of Basic	ppearing on Energy Se	ine front and back vices LP.		SIGNED:	ER, OPERATOR	1 2	1-6		
ITEM/PRICE REF. NO.	MATER	IAL, EQUIPMENT A	ND SER	VICES US	ED	UNIT	QUANTITY	UNIT PR	\$ AMOUN	NT TV		
CP 103 60	140 PO.	Ζ				SK	14.52			1.740	00	
CC 200 CQ	Ment	GeL				10	250		198	62	50	
E 100 Fi	CKUP	Milegge				mi	120	1.3		23.5	00	
E 113 Bu	116 00	Leage				Th	375			600	00	
CF 201 D	PHOC	harab				4hr				1,200	00	
CE 240 MI	XING C	hutae.				SK	145			203	:00	
5 002 54	Pervi	5121				29	1			175	00	
CATAL TATE		14		4					12	- Y	-	
							2 1				+	
											-	
II TILL XIII												
				-								
SUB TOTAL CHEMICAL / ACID DATA:								3,806	6			
		1 10			RVICE & EQUIP	MENT		X ON \$				
			ýl .	MA	TERIALS		%TA	X ON \$	TOTAL	140		
									TOTAL			

REPRESENTATIVE FIELD SERVICE OF DER NO. THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY

(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

SERVICE



TREATMENT REPORT

Ω															
Customer L. D. Prilling			Lease No. Well # /- / 5						Date						
Lease Kulth										9-23-12					
Field Order #	Station	ruT/				Casing #/	1/2	Depth)	County	Pano	- Barton	State K 5		
- 17 J. W.	nw PI						Fo	rmation			l.egal	Description /5	-19-12		
PIPE	DATA	PERF	ORATIN	G DATA		FLUID U	JSED			TRI	EATMEN	IT RESUME			
Casing Size		Shots/Ft			Acid					RATE P	RESS	ISIP			
Depth 675	Depth	From	То		Pre	Pad			Max			5 Min.			
Volume	Volume	From	То		Pad				Min			10 Min.			
Max Press	Max Press	From	То		Frac	2		0.	Avg			15 Min.			
Well Connection	Annulus Vol.	From	То						HHP Use	3		Annulus Pre	essure		
Plug Depth 75	Packer Depth		То		Flus				Gas Volur	ne		Total Load			
Customer Repre		n		Station	Mana	ager Sco	MY	1		Treater	JOE	of melson			
Service Units	19559 19	843	19960	21010	2	37586	Ä								
Driver Names	ED mun-	do	R	EED		melso.	2								
480		Tubing Pressure	Bbls, Pu	ımped		Rate		10			ervice Log				
11:15 Am							01	1600	. 5997	y me	Ping				
1.15 Pm							PL	49 -	· 5957. 1 set Pucer	97 6	75				
	160		5		L	1									
	120		7		4				10/40 1	02 W	17h 49	ogel _			
125	100		- 2	7	4		1-12	0 51	Pacer		. 1 >				
					_		192	49 2	SETG	T 44	0'				
			4.1			4			Pucer	2	16	2 4			
			21		- (-	m	X 6	60/40 F	02 W1	75 4%	ogel	30		
-			44.	,	1	1	16	49 3	40	2-7 /	D. T. 1.1.	1 Di	· 7.00 DI		
_			4'		L)	NI	160	10	0-1	41 100	DE 1245 1	'ATOP PL		
2			5				100	<u> </u>	oll	V 0 + 0					
2:15								J U 70	hanky	11/1					
								-	14000	all					
									,	7					
									· ·						
							0								
													37		



DIAMOND TESTING

P.O. Box 157

HOISINGTON, KANSAS 67544 (620) 653-7550 • (800) 542-7313 STC/Keith1-15dst1

Company L. D. Drilling, Inc.	Lease & Well No. Keith No. 1-	15
Elevation 1840 KB Formation Lansing "A" & "B"	Effective Pay	12044
Date 9-21-12 Sec. 15 Twp. 19S Range	12W County Barton	State Kansas
Test Approved By Kim B, Shoemaker	Diamond Representative	John C. Riedl
Formation Test No. 1 Interval Tested from	3,144 ft. to 3,175 ft.	Total Depth 3,175 ft
Packer Depth3,139 ft. Size6 3/4 in.		ft. Sizein.
Packer Depth 3,144 ft. Size 6 3/4 in.		ft. Sizein.
Depth of Selective Zone Setft.		
Top Recorder Depth (Inside) 3,147 ft.	Recorder Number	30046 Cap. 6,000 psi.
Bottom Recorder Depth (Outside) 3,172 ft.	Recorder Number	11073
Below Straddle Recorder Depthft.	Recorder Number	psi.
Drilling Contractor Petromark Drilling, LLC - Rig 2	Drill Collar Length	120 ft I.D. 2 1/4 in
Mud TypeChemicalViscosity58	Weight Pipe Length	ft I.Din.
Weight 9.3 Water Loss 9.2 cc.	Drill Pipe Length	3,002 ft I,D. 3 1/2 in.
ChloridesP.P.M.	Test Tool Length	22 ft Tool Size 3 1/2-IF in.
Jars: Make Sterling Serial Number Not Run	Anchor Length	31 ft. Size 4 1/2-FH in.
Did Well Flow? No Reversed Out No		Bottom Choke Size 5/8 in.
	Main Hole Size 7 7/8 in	. Tool Joint Size 4 1/2-XH in.
Błow: 1st Open: Weak blow. Dead in 25 mins. No blow back during shut-in 2nd Open: Weak blow. Dead in 5 mins. No blow back during shut-in		
Recovered 40 ft. of oil specked drilling mud = .196800 bbls.		
Recoveredft. of		
Remarks		
Time Set Packer(s) 1:45 P.M. Time Started off Botto	m 3:45 P.M Maxim	um Temperature 101°
nitial Hydrostatic Pressure(A)_	1534 _{P.S.I.}	
nitial Flow PeriodMinutes 30 (B)	17 P.S.I. to (C)_	25 P.S.I.
nitial Closed In PeriodMinutes30 (D)	292 P.S.I.	
Final Flow PeriodMinutes 30 (E)	26 P.S.I to (F)	34 P.S.I.
Final Closed In PeriodMinutes 30 (G)		
Final Hydrostatic Pressure(H)	1513 _{P.S.I.}	

GENERAL INFORMATION

Client Information:

Company:

L D DRILLING INC

Contact:

L D DAVIS

Phone:

Fax:

e-mail:

Site Information:

Contact

KIM SHOEMAKER

Phone:

Fax:

e-mail:

Well Information:

Name:

KEITH 1-15

Operator:

L D DRILLING INC

Location-Downhole:

Location-Surface:

S15/19S/12W

Test Information:

Company:

DIAMOND TESTING

Representative:

JOHN RIEDL

Supervisor:

KIM SHOEMAKER

Test Type:

DST #1 CONVENTIONAL

Job Number:

D1215

Test Unit:

Start Date:

2012/09/21

Start Time:

12:15:00

End Date:

2012/09/21

End Time:

17:05:00

Report Date:

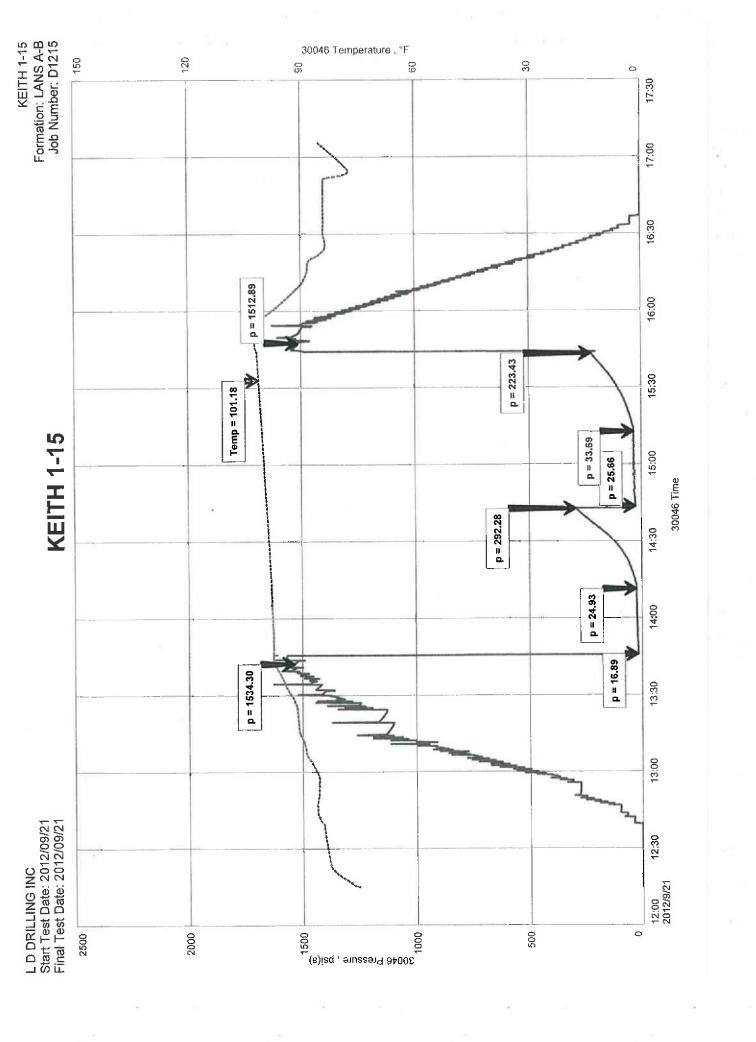
2012/09/21

Prepared By: JOHN RIEDL

Remarks:

Qualified By: KIM SHOEMAKER

RECOVERY: 40' OIL SPECKED DRILLING MUD





DIAMOND TESTING

P.O. Box 157

HOISINGTON, KANSAS 67544 (620) 653-7550 • (800) 542-7313 STC/Keith1-15dst2

Company L. D. Drilling, Inc.	Lease	& Well No	Keith No. 1-	15							
Elevation 1840 KB For		ve Pay			Ticket No	J3012					
Date 9-22-12 Sec		198	Range_	12W	County	Barton	State_	Kan	isas		
Test Approved By	(C) D OI	naker	[Representati		John (C. Riedl			
Formation Test No. 2	Interval Teste	ed from		3,173 ft	:0	3,220 ft	Total Depth	3,2	 220 _{ft}		
Packer Depth 3,1		e 63			Packer Dep						
Packer Depth 3,1	73 ft. Size		 /4 in.		Packer Dep						
Depth of Selective Zone Se			ft.								
Top Recorder Depth (Inside	∋)	3,17	⁷⁶ ft.		Recorder N	umber	30046 C	ар	6,000 _{psi.}		
Bottom Recorder Depth (O		3,2	17 ft.		Recorder N	umber	44070	ар	4.000		
Below Straddle Recorder D	epth		ft.		Recorder N	umber	c	ар	psi.		
Drilling Contractor Petroma	ark Drilling, LLC -	Rig 2		Drill Co	lar Length_		120 ft	I D	2 1/4 in		
	Viscosity	58		Weight	Pipe Length		ft	I.D	in.		
Weight9.3	Water Loss	9.2	cc.	Drill Pip	e Length		3,031 _{ft}	I,D	3 1/2 in.		
Chlorides 4,00	00	P.P.M.		Test To	ol Length		22 _{ft}	Tool Size	3 1/2-IF in		
Jars: Make Sterling		berNo	t Run		Length16				4 1/2-FH in.		
Did Well Flow? No R	eversed Out	No		Surface Choke Size 1 in. Bottom Choke Size 5/8 in							
				Main H	ole Size	7 7/8 _{in}	. Tool Joir	nt Size	4 1/2-XH in.		
Blow: 1st Open: Weak, 1/4 in. bl	ow throughout. No b	low back d	uring shut-i	n.							
2nd Open: Very weak, 1/8	in, blow throughout,	No blow b	ack during s	shut-in.							
Recovered 60 ft. of oil s	pecked drilling mud =	= .295200 b	bls.								
Recovered ft. of											
Recovered ft. of											
Recoveredft. of											
Recoveredft. of											
Recoveredft. of											
Remarks											
Time Set Packer(s) 2:20 /	4.M:	- 0441	-# D-#-	m 4:20	A M	8.6	T	1	 102°		
			off Botto	rn	1521 _{P.S}		um Tempera	iture			
Initial Hydrostatic Pressure.		30						36 P.S.			
Initial Flow Period	S.S.(V	30	(B)_		342 P.S	3.I. to (C)_		P.S.	I.		
Initial Closed In Period		30	(D)_					⁴⁷ P.S	. 1		
Final Flow Period			(E)_		263 P.S			PS	4.I.		
Final Closed In Period			(G)_	<u> </u>	1512 _{P.S}						
Final Hydrostatic Pressure			(H)		14.5 H.S	ı.l.					

GENERAL INFORMATION

Client Information:

Company:

L D DRILLING INC

Contact:

L D DAVIS

Phone:

Fax:

e-mail:

Site Information:

Contact:

KIM SHOEMAKER

Phone:

Fax:

e-mail:

Well Information:

Name:

KEITH 1-15

Operator:

L D DRILLING INC

Location-Downhole:

Location-Surface:

S15/19S/12W

Test Information:

Company:

DIAMOND TESTING

Representative:

JOHN RIEDL

Supervisor:

KIM SHOEMAKER

Test Type:

DST #2 CONVENTIONAL

Job Number:

D1216

Test Unit:

Start Date:

2012/09/22

Start Time:

01:00:00

End Date:

2012/09/22

End Time:

06:00:00

Report Date:

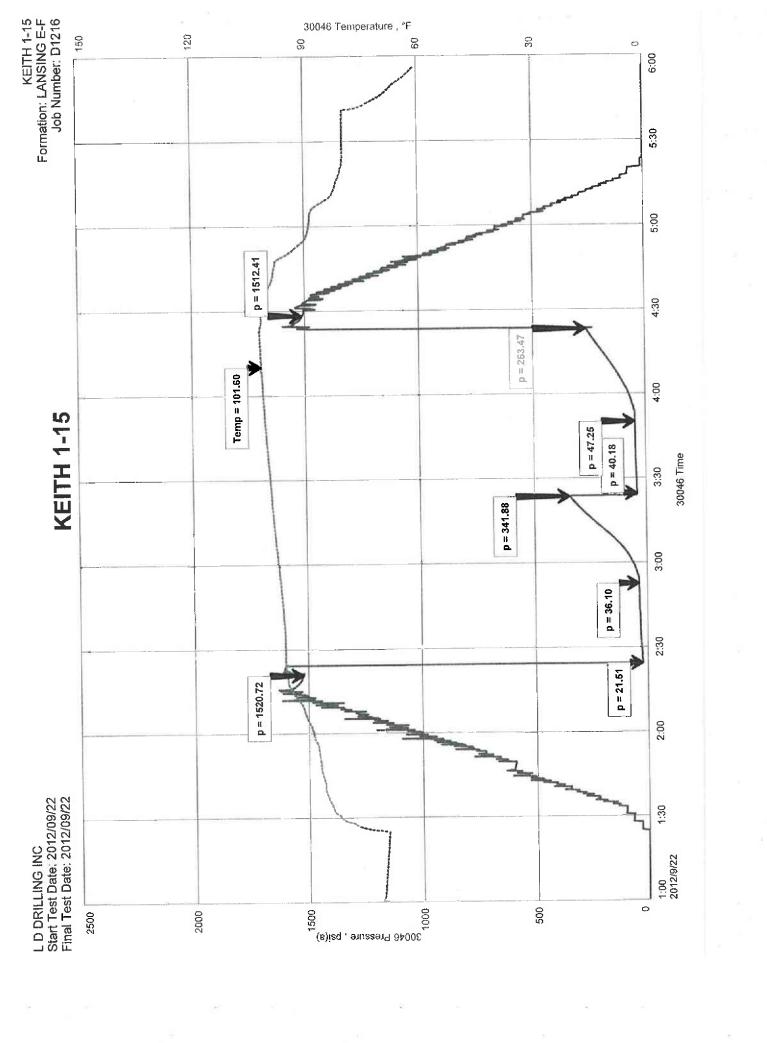
2012/09/22

Prepared By: JOHN RIEDL

Remarks:

Qualified By: KIM SHOEMAKER

RECOVERY: 60' OIL SPECKED DRILLING MUD





DIAMOND TESTING

P.O. Box 157

HOISINGTON, KANSAS 67544 (620) 653-7550 • (800) 542-7313 STC/Keith1-15dst3

Company L. D. Drilling, Inc.	Lease & Well No. Keith No. 1-15							
Elevation 1840 KB Formation Conglomerate		10040						
Date9-23-12 Sec15Twp19SRar	nge <u>12W</u> County <u>Bartor</u>	n State Kansas						
Test Approved By Kim B. Shoemaker	Diamond Representative	John C. Riedl						
Formation Test No. 3 Interval Tested from	3,387 ft. to 3,430 ft.	Total Depth 3,430 ft						
Packer Depth 3,382 ft. Size 6 3/4 in.	Packer Depth	ft. Sizein.						
Packer Depth 3,387 ft. Size 6 3/4 in.	Packer Depth	ft. Sizein,						
Depth of Selective Zone Setft.								
Top Recorder Depth (Inside) 3,390 ft.	Recorder Number_	30046 Cap. 6,000 psi.						
Bottom Recorder Depth (Outside) 3,427 ft.	Recorder Number	11073 Cap. 4,000 psi.						
Below Straddle Recorder Depthft.	Recorder Number	Cappsi.						
Drilling Contractor Petromark Drilling, LLC - Rig 2	Drill Collar Length	120 ft I.D. 2 1/4 in						
Mud Type Chemical Viscosity 50	Weight Pipe Length	ft l.Din.						
	cc. Drill Pipe Length	3,245 ft I.D. 3 1/2 in.						
Chlorides 5,000 P.P.M.		22 ft Tool Size 3 1/2-IF in						
Jars: Make <u>Sterling</u> Serial Number Not Run		1' drill pipe Size 4 1/2-FH in.						
Did Well Flow? No Reversed Out No		n. Bottom Choke Size5/8 in.						
	Main Hole Size77/8	n. Tool Joint Size4 1/2-XH in.						
Blow: 1st Open: Good, 7 in. blow. No blow back during shut-in. 2nd Open: Fair, 5 in. blow. No blow back during shut-in.								
Recovered5 ft. of free oil = .071150 bbls.	revisitation publication and the second							
Recovered 280 ft. of muddy water = 2.867200 bbls. (Grind out: 8	30%-water; 20%-mud) Chlorides: 26,000 Pp	m 						
Recovered 285 ft. of TOTAL FLUID = 2.938350 bbls.								
Recoveredft. of								
Recovered ft. of								
Recoveredft. of								
Remarks								
Time Set Packer(s) 4:20 A.M. Time Started off Bo	ottom7:20 A.M Maxir	num Temperature112°						
Initial Hydrostatic Pressure(A)A_P.S.I.							
Initial Flow PeriodMinutes(B) 24 P.S.I. to (C)	96 P.S.I.						
Initial Closed In PeriodMinutes 45	(D)							
Final Flow PeriodMinutes45((E) 98 P.S.I to (F)	147 _{P.S.I.}						
Final Closed In PeriodMinutes 60 (G)P.S.I.							
Final Hydrostatic Pressure(H)1631_P.\$.I.							

GENERAL INFORMATION

Client Information:

L D DRILLING INC Company:

Contact: L D DAVIS

Phone: Fax: e-mail:

Site Information:

KIM SHOEMAKER Contact:

Phone: Fax: e-mail:

KIM SHOEMAKER

Well Information:

KEITH 1-15 Name:

L D DRILLING INC Operator:

Location-Downhole:

Location-Surface: S15/19S/12W

Test Information:

DIAMOND TESTING Company:

Representative: JOHN RIEDL

Supervisor:

Test Type: **DST #3 COVENTIONAL** Job Number: D1217 Test Unit:

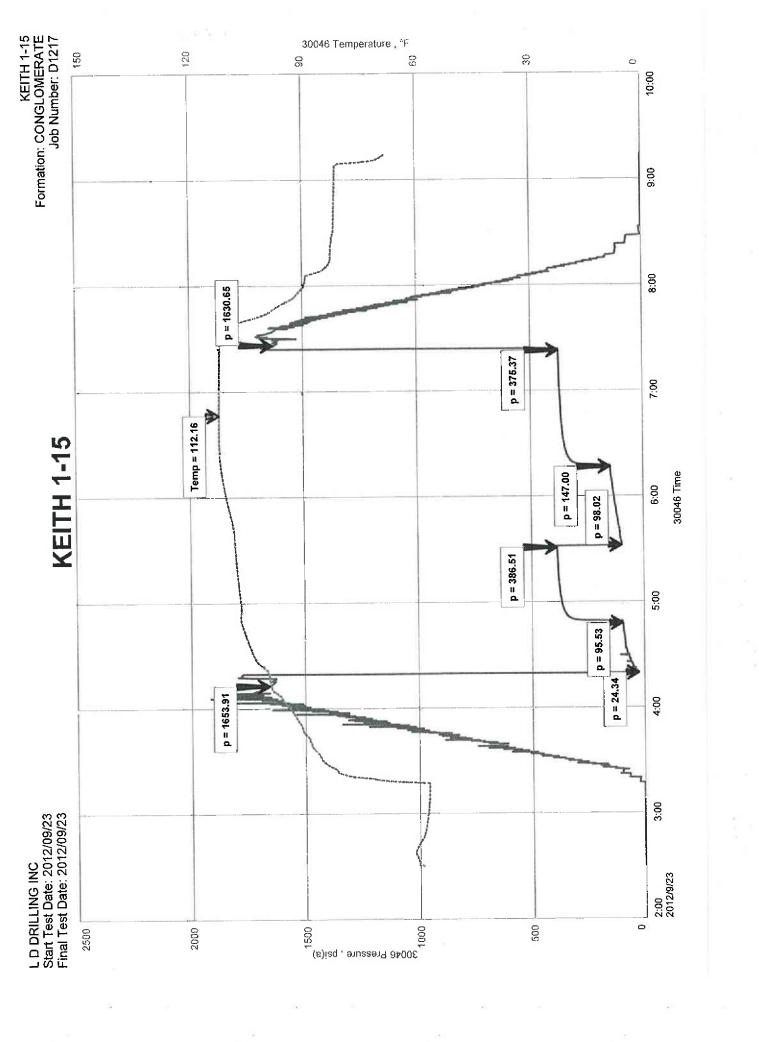
02:30:00 2012/09/23 Start Time: Start Date:

2012/09/23 End Date: End Time: 09:15:00

2012/09/23 Report Date: Prepared By: JOHN RIEDL

Qualified By: KIM SHOEMAKER Remarks:

RECOVERY: 5' FREE OIL, 280' MUDDY WATER



KIM B. SHOEMAKER CONSULTING GEOLOGIST 316-684-9709 * WICHITA, KS 15-009-25746 GEOLOGIST'S REPORT DRILLING TIME AND SAMPLE LOG COMPANY L. D. DRILLING THE. **ELEVATIONS** # 1-15 KEITH LEASE ____ KB 1840 FIELD CHEYENNE VIEW Doi.Lim 1664 FNL & 1656 FEL LOCATION ____ GL 1835 SEC 15 TWSP 193 RGE 12w Measurements Are All COUNTY BARTON STATE KANSAS From 1840 KB CASING CONTRACTOR PETROMARK DRILLING RIG 2 2 SURFACE \$5/8 @ 389' SAMPLE SPUD 9-17-12 COMP 9-23-12 PRODUCTION ___ () ELECTRICAL SURVEYS RTD 3430 Lil None MUD UP 2750 TYPE MUD CHEMICAL SAMPLES SAVED FROM _____ 2800 10 3430 IN MINUTES FOOT IG TIME IN MINUTE PER FOOT DRILLING TIME KEPT FROM 2600 TO 3430 SAMPLES EXAMINED FROM _____ 2800 TO 3430 GEOLOGICAL SUPERVISION FROM 3000 TO 3430 GEOLOGIST ON WELL KIM B. SHDEMAKER DRILLING FORMATION TOPS LOG SAMPLES ŏ 673+1167 **Unhydrite** ANHYDRITE TOPEKA 2666-826 HEEBNER 3010-1170 BROWN LIME 3123-1283 LANSING 3140-1300 B/KC 3391-1551 700 CONG. CHERT 3416-1576 REMARKS RTD 3430-1590 LITHOLOGY SHOE01-08

