

Kansas Corporation Commission Oil & Gas Conservation Division

1131583

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: State: Zip:+	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: Original Total Depth: Conv. to ENHR	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 #:	QuarterSec TwpS. R East West
ENHR Permit #:	County: Permit #:
GSW 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

1131583

Operator Name:			Lease Name: _			_ Well #:	
Sec Twp	S. R	East West	County:				
time tool open and clo	osed, flowing and shu es if gas to surface te	d base of formations pe t-in pressures, whether st, along with final char- well site report.	shut-in pressure rea	ached static level,	hydrostatic press	sures, bottom h	nole temperature, fluid
Drill Stem Tests Taker (Attach Additional		☐ Yes ☐ No		_og Formatio	n (Top), Depth an	d Datum	Sample
Samples Sent to Geo	logical Survey	Yes No	Nan	ne		Тор	Datum
Cores Taken Electric Log Run Electric Log Submitte (If no, Submit Copy		Yes No Yes No Yes No					
List All E. Logs Run:							
				lew Used			
D (0):	Size Hole	Report all strings set Size Casing	t-conductor, surface, in Weight	termediate, producti Setting	on, etc. Type of	# Sacks	Type and Percent
Purpose of String	Drilled	Set (In O.D.)	Lbs. / Ft.	Depth	Cement	Used	Additives
		ADDITIONA	U OFMENITING (OO	UEEZE DEOODD			
Purpose:	Depth		AL CEMENTING / SQ	UEEZE RECORD			
Perforate	Top Bottom	Type of Cement	# Sacks Used		Type and F	Percent Additives	
Protect Casing Plug Back TD							
Plug Off Zone							
Shots Per Foot	PERFORATI	ON RECORD - Bridge Plu	ugs Set/Type		cture, Shot, Cement		
	Specify	Footage of Each Interval Pe	errorated	(AI	mount and Kind of Ma	ateriai Used)	Depth
TUDING DECORD.	Si-o.	Cat Atı	Packer At:	Lines Duni			
TUBING RECORD:	Size:	Set At:	Facker At.	Liner Run:	Yes No		
Date of First, Resumed	Production, SWD or EN	HR. Producing Me		Gas Lift C	Other (Explain)		
Estimated Production Per 24 Hours	Oil	Bbls. Gas	Mcf Wa	ter B	bls. (Gas-Oil Ratio	Gravity
		·					
	ON OF GAS:		METHOD OF COMPL			PRODUCTIO	ON INTERVAL:
Vented Solo		Open Hole			nmingled mit ACO-4)		
(If vented, Sui	bmit ACO-18.)	Other (Specify)					

Form	ACO1 - Well Completion
Operator	IA Operating, Inc.
Well Name	Jenny 33-1
Doc ID	1131583

All Electric Logs Run

Geologist's Well Report
Dual Induction Log
Micro Log
Compensated Density/Neutron Log
Sonic Log



. /)		10.2		
KET NUMBER		3	919	18
LOCATION (Dak	Ter	45	11 4 1
				4 4 P. P.

PO Box	884, C	hanute	KS 6	6720
620-431	-9210	hanute or 800-	467-8	676

FIELD TICKET & TREATMENT REPORT

DATE	CUSTOMER#	W	ELL NAME & NI	JMBER	IEN	SECTION	<u> </u>	WNSHIP	RANGE	1
12-7-12	3826	Jenny	1/20	Tell III	+	33		2 <i>S</i>		COUNT
CUSTOMER	T 1/1 ~	2 11-	1 1 i.di. a. ul	344383	JCF			12 April 180 p. 17	244	ine Narton
AILING ADDR	ESS	Derati	AG HAIL	11		TRUCK #	22.0	RIVER	TRUCK#	DRIVER
			tige te albandañ. Eus distante e	N.5.		4051411	Jen	4 7	A Mariaca	A Land Comment
ITY	TS	STATE	ZIP CODE			460		my 5		
		into T		-34						
OB TYPE	TA	HOLE SIZE	774	HOLE DE	L					
ASING DEPTH		ORILL PIPE	efication of	TUBING		o <u>ogzadi ti.</u> Galifiga (Siz	ije Casin	G SIZE &		
LURRY WEIGH	1 170 G	SLURRY VOL	1.4 100 1	WATER		Cala la dis	CEME	VT LEFT in	OTHER	
ISPLACEMEN	the state of the s	DISPLACEME	" militar i mige es 15 # 13	MIX PSI	-	The second second	RATE		I CAGING_	
EMARKS:	salely mappe	ins ar	dric ut	on D-	300	ver de	11 20	#1 4	Dug 95 0	deed
15/ 25	SKE 2025	Zini omi					11. 1817	· ,	Mus.45 C	110 -17 + 4
	sus e 1225	7-								- + +
	MS @ 325	<u> </u>				o esta (enge)	ity seeks s			77 V210H
0 4 1	14 6 401	111/11/20	Cla Palin	20545	60	46 Aur 9	Engul 1	4 1/0	See	Maj
	KH.	تاریخ پائے کا د				. Aller Virginia			The to William .	
15 Sh 5 1	74	L (18)	100 000	1 124		HE WITE HE		May P		
-		rational de la company de La company de la company d	AM ISTA HAVE AND	iranii (***********************************						
		1 7(3 /	. 11311	C Dr. Giz			hanks	Milo	st Crew	
ACCOUNT	vela in vela in . Vela in la vela in .		er Aber (1.0 A.A. Calace VIII. 1900)	HAME TAKE		AND A			ai i	
CODE	QUANITY O	r UNITS		DESCRIPTIO	N of S	ERVICES or	PRODUCT		UNIT PRICE	TOTAL
5405 N	у и ј		PUMP CHAF	RGE		Company No.	1.013.0		1325,00	1325 90
5406		25	MILEAGE	200 C.	1 5				500	375,00
5/17	9.40	o Tuns	Topm	trase a	Sel	way			1.67	1184.86
1131	٥٥٥٥	315	60/40	Pazes	y my	ent			15.10	3221,00
1118 B	7.56	0 5	Bento	n.toge	1				125	189 00
1107	5 .6	5 l =	Flo	seal,			1,1105.7		2.82	155,10
4432	<u> </u>		878"	Rugen	r W	Au Plas			960	96.00
						Continue			. Ye	
									Substant	6646,9
					5.032	v (q)	053 10	9/3/	ount VIII	664.69
					5 3 3 E	อกกรที่การราชที่ อาการ			SULLIV	5982.7
				1.1 Z	5 0 0 5 0 0	ajar, di 🗀 j.	At the	metri e etc.	/	
						· Marie III		ji se la		4.0
					. 30 E			Out. The co	en e	
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				jih.	N 10 10 10 10 10 10 10 10 10 10 10 10 10	-C (T)		
							. 1444.	411	A STATE OF THE STA	
			 		3 441		1145-1			4
			<u> </u>		11000 11000	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	Jac b		SALES TAX	
n 3737			the first of the second				e marking		ESTIMATED	
n 3737	1.11	1	\sim		1:11	r i ja ijele		A A STATE	TOTAL ,	As a second



AUTHORIZTION_

T"\KET NUMBER	39194
LACATION Oak	MAS
FOREMAN 701	o Shaw

人學。	Cil Wall Services	, LLQ		A Capilla Lydige (FOREMAN_	mito Sa	
PO Box 884, C 20-431-9210	hanute, KS 66720 or 800-467-8676	artique d	TICKET & TREA		PORT		211
DATE	CUSTOMER#	27 1	ME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
12-1-12	3520	Jenn#33	-/	33	25	216	Herlen
CUSTOMER	A CONTRACTOR	2 1	34-300				747
MANUNG ADDE	$\perp H$, (perating	12m	TRUCK#	DRIVER	TRUCK#	DRIVER
MAILING ADDR	E58		r.S	359	1 aman M		
				Hero	Millom		
CITY	S	STATE	CODE				
JOB TYPE S	urtice H	IOLE SIZE 1214	HOLE DEPT	н ЖЗ	CASING SIZE & \	NEIGHT 85/4	"24#
CASING DEPT	1 <u>263</u> 0	ORILL PIPE	TUBING			OTHER	
SLURRY WEIGI	нт <u>/4/8</u> s	LURRY VOL 1.3	WATER gal	/sk	CEMENT LEFT in	CASING 20	
DISPLACEMEN	T 15% blb 0	DISPLACEMENT PS			RATE		
REMARKS:	Solety Meat	ins and 1.5	War DIE	very della		culate cas	
m: 17	78 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	manwith	36 Callyum	- 1.	displace	54116	cher
Shutin	Comput	1 1 .	lale 53/15	601	-03/11414	- 21 10 2/10	
	· · · · · · · · · · · · · · · · · · ·	neu (ir mus		10 1215		4 1	
		<u>a in and fan dê 'i i</u>	144 1 1 4 4 4 4 4 4 1 1 1 1 1 1 1 1 1 1				
					r Na azgrafa z gal		
				1. 1913. Sugaranta			
				alight july			
				Thanks	Miks & C	r peul	
11	·	Parking in the age.	(8 M) (1 8 M) 6 -	N. 12 4. 181" 5			
ACCOUNT CODE	QUANITY o	r UNITS		of SERVICES or PI	RODUCT	UNIT PRICE	TOTAL
54015	1	PUN	MP CHARGE	a de la companya de l		1055 W	NOFSP
5/06	L	C) MIL	EÁGE ,	A MARKET STREET	u . w u sagen	5.00	300,00
5407A	8.2	y Tous	Ton milyage a	deliver		667	823,64
11045	175		Common Cla	1 6	ra!	17.65	3081.75
1700		54	///			0.6	1/26 55

CODE	QUANITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
54015		PUMP CHARGE	1085 W	NOFSE
5/06	40	MILEAGE	5.00	300, 0
5407A	8.22 TONS	Tommilage delivery	1,67	823.64
11045	1755/B	Common Class A Comen	17.65	3088,75
1100	493 4	Calcium, Chlorida	.89	438.7
11183	3290	Bentante Gel	125	82.25
			Substal	5818.91
		1055 /6	3 discount	581.89
			Subtrel	5137.00
			<u> </u>	
erelan.				1 200
		And the second s	i i	
		्र स्थापायाः अत्यक्षाः ।		
			SALES TAX	
vin 3737			ESTIMATED TOTAL	

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.

TITLE Too Coushe

DST #INTERVAL	er Maddy#4-1,5µ4T35-R24W Wall be plugged and abanobned	Reference Vell for Structural Comparison: I.A.Open Maddy Comments and Recommendations: Recommended Wallbaj
connection and and and and and and and and and an	Location Jenny 33-1	76ta/Dapth 3695 3700
one: <u>/</u>		Lansing J. Lone 3584(-1131) 3589(-1136) -9 Base K3. City (4p., 3632(-1179) 3636(-1183) -7' Kungan Sandshine 3672 (-1219) N.A2'
, 2/15i.t		(8201-) 1845 (5201-)9446 (996) 3453(-1000) (984) 1345 (5201-)9446
ng galana F	1) 1	
ana ensuena ano ensuena an	Density Neutron, Dual Induction, Micro Electric and Sonic logs	FORMATION ID SUEA ID STRUCTURE STRUC
nica provincia servici con necessità di consistenti di consistenti di consistenti di consistenti di consistenti Di provincia con consistenti di consistenti	None-P+A. VIRELINE SURVEYS NABORS-Comp.	COMMENCED: Descember 1,2012 COMPLETED: 12/7/12 ROTARY TOTAL DEPTH: 3695' LOS TOTAL DEPTH: 3700' GEOLOGICAL SLEENVISION FROM: 3400' Lo: 7.D. MID-UP DEPTH: 2906' MB TYTE: Chamical Polymer
DST # 1 Interval: 3457-85	ELEVATIONS KB 2453' OL 2445' Messurements are all from KB CASING RECORD CASING RECORD 263'K.B., circ.	
8648 Chor Depth: 345		RILLING TIME AND SAMPLE LOG
45.75		

DST # 1 ZONE: Lansin INTERVAL: 3457'-3485'	g 'B '+ C '	Zones	DST # 1 Interval: 3457'-85'	8648 Chart Depth: 3458
Pressures: Time 1. Initial Hydrostatic 2. Initial Flow: Start 3. Initial Flow: End 4. Initial Shut-in: End 6. Final Flow: Start 6. Final Flow: End 7. Final Shut-in: End 8. Final Hydrostatic BHT: 94°F Rw:	/689 pe 1 22 pe 1 28 pe 1 //3/ pe 1 //3/ pe 1 //3/ pe 1 //3/ pe 1 //0/2/ pe 1	40'Gas+01 cut. (590gas, 30%00; Blow Dasc: I.Fbuiltfoz' I.STNoblow F.Fbuiltfol'/2		

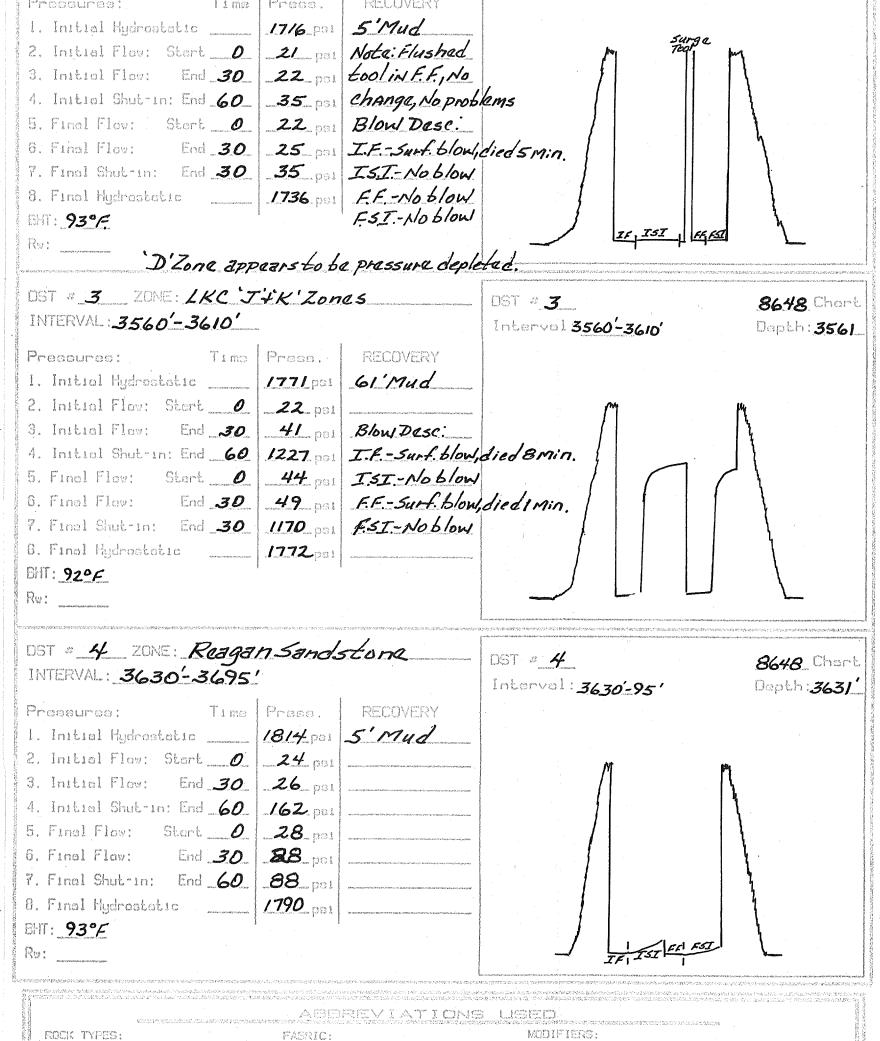
DST # 2 ZONE: Lansing 'D'+F' Zones INTERVAL: 3486-3520

DST #2

Interval: 3486-3520

8648 Chart

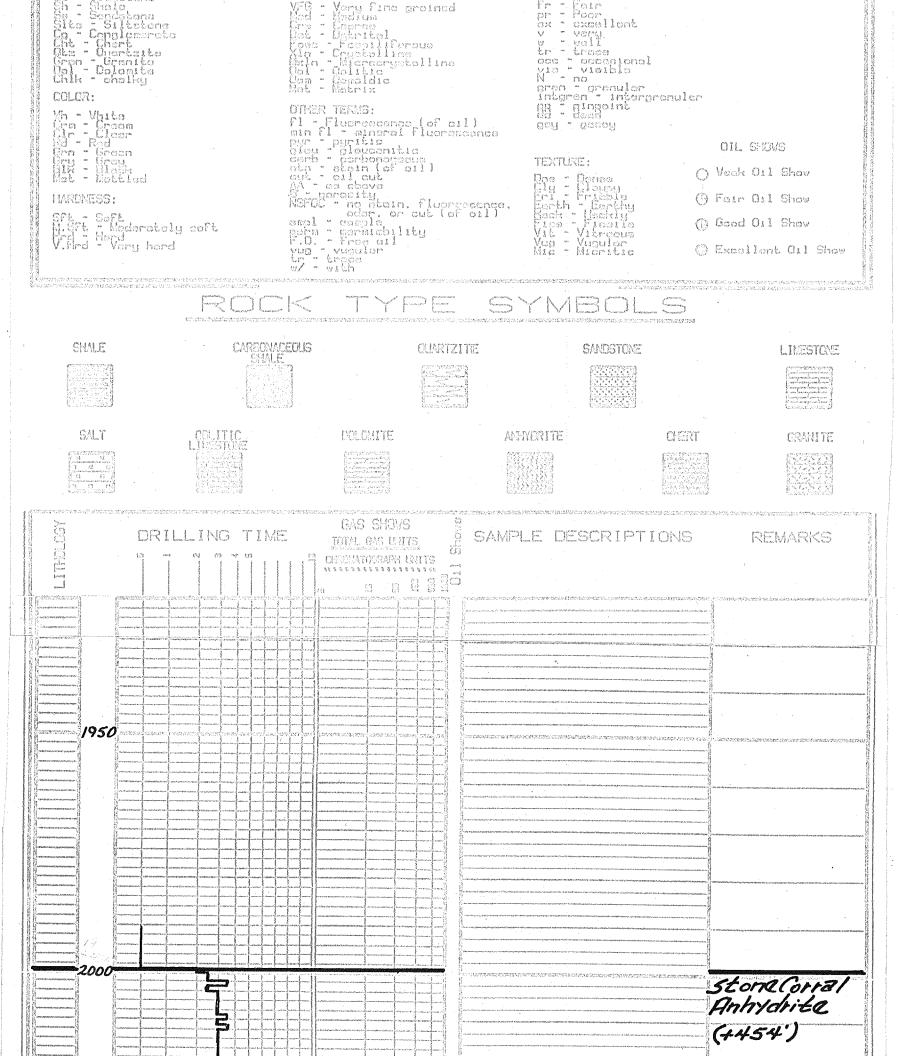
Depth: N.A.

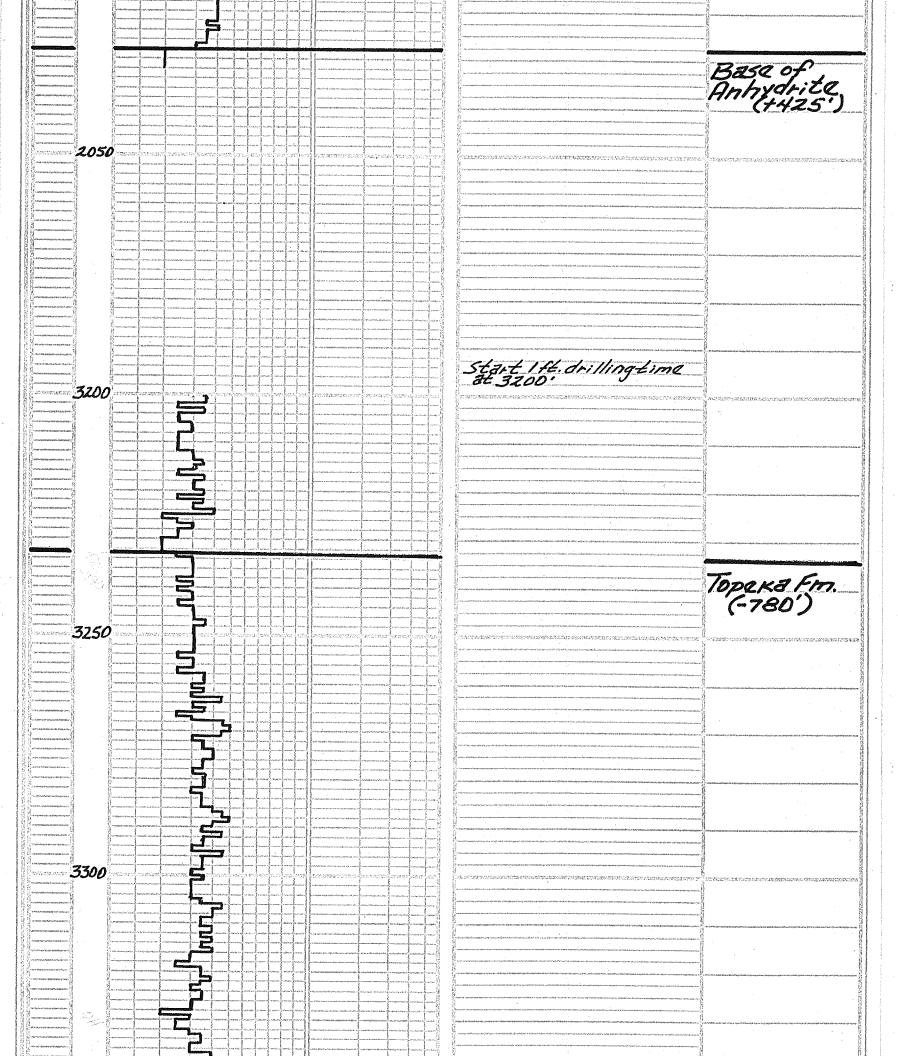


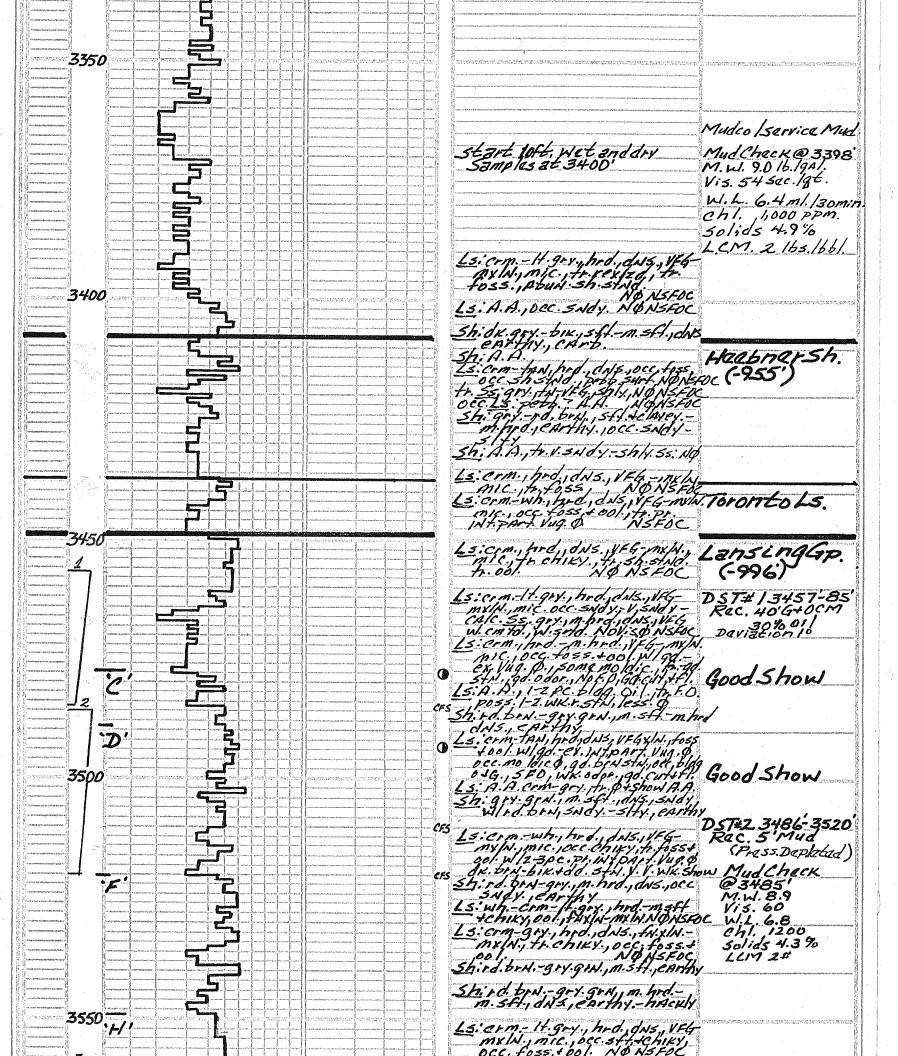
Fn.grn - finegrained

In - I smartness

ed - Good







		LS.A.A., more foss. NONSFO Shird bry, sff + c/qyey-m. earthy, occ. sff, shird bry-gry, sff + c/qyey m. hrg. jans, occ. sff, earthy Ls. crm., hrd., dns. VFG-axin., occ. ool & fosq. wift pof VFG. Vig. other part g. if br sh. fr. odor, go. cut+f., po Ls. A.A., tr. Dr. owlshow, A. P. Ss. grn, g. hrd., m. sf., occ. t fn. VFG, mod. w. srld. w.c. dx oilstn., gd. odor., VI pern Ls. wh. crm., hrd., dns., VFG xi Pyr., occ. pr tr. Vig. o, tr. g I. brn., stn., go. cut+f., No. Sc. crm. tan, hrd., dns., fnxin-a mic, tr. chix, toss., No. ss. sh. rd. bin-gry, mot., m. st., d earthy-chayey	DST#3 3560-3610 Rec. 61 Mud Rec. 61 Mud Weak Show Wind Weak Show Wind Waak Show Wind Waak Show What What
44		Shi A.A. Zsi com - gry, hrd., dals., VEG-M Mic., tr. chik., foss., Abun Mis., tr. chik., foss., Abun Ls. A.A. Shird-rd, bru., sff-Y. sff., eArthy-clayey Shird-rg.bru., sff., claye eArthy Shird-rg.bru., sff., claye garthy-clayey shird-rg.bru., sff., claye eArthy Ls. com-H.gry., hrd., dals., VFG mxln., mic., harefoss., tr. glauc., tr. sh. stud. Nonsf Shird.bru., sff. vc/ayry-earth Ls. com-gry., hrd., cns., yfgy fr. foss.	Vis. 62 LCM2 Loc chl. 1,300 Base of Kansascity Group (-1179') DST#43630-95' NY Rec. 5' Mud
	TI. STOL	SSigry, hrdM.hrd.dNs., med. Ith grud, pr. srid., prgm rNa.: pr., mich.; w. cmta., calc. BIK. dd., stn.; No odor. No Vis. q WK. cut. + fl., No F. O. SS: wh rd. br. n.; hrdg. hrd., pr. srid.; med-fn.gr. No. Vis. op. St. Cg.; Shird-ylw. V. st.; c/Ayey, ith SS: AD, tt. Ls. pebb.	Reagan Ss.



I.A. Operating, Inc.

I.A. Operating, Inc.

9915 W 21st St. STE B

SW 33 - 2S - 24W

Jenny # 33-1

Tester:

Job Ticket: 51382

Reference Elevations:

DST#:1

Witchita KS, 67205 ATTN: Bob Stolzle

Test Start: 2012.12.04 @ 00:17:00

GENERAL INFORMATION:

Formation: Lansing "B-C"

Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Initial)

Time Tool Opened: 02:18:15 Time Test Ended: 07:54:00

Interval: 3457.00 ft (KB) To 3485.00 ft (KB) (TVD)

Total Depth: 3485.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Unit No: 43

Ryan Nichols

2453.00 ft (KB) 2448.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8648 Inside

Press@RunDepth: 38.79 psig @ 3458.00 ft (KB) Capacity: 8000.00 psig

 Start Date:
 2012.12.04
 End Date:
 2012.12.04
 Last Calib.:
 2012.12.05

 Start Time:
 00:17:05
 End Time:
 07:53:59
 Time On Btm:
 2012.12.04 @ 02:18:00

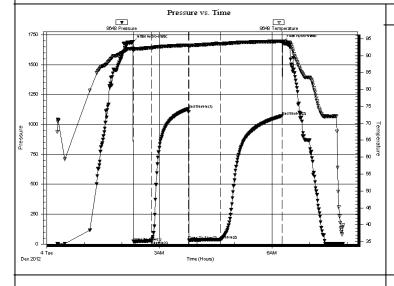
 Time Off Btm:
 2012.12.04 @ 06:17:15

TEST COMMENT: 30 IF - Surface blow built to 2"

60 ISI - No return

60 FF - Surface blow started @ 1 min built to 1 1/2"

90 FSI No return



PRESSURE SUMMARY

Time	Pressure	Temp	Annotation
(Min.)	(psig)	(deg F)	
0	1688.89	92.08	Initial Hydro-static
1	21.68	91.38	Open To Flow (1)
29	27.88	92.32	Shut-In(1)
89	1131.05	93.08	End Shut-In(1)
89	33.54	92.70	Open To Flow (2)
140	38.79	93.50	Shut-In(2)
238	1071.98	94.22	End Shut-In(2)
240	1692.53	94.16	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
40.00	GOCM - 5%G - 30%o - 65%M	0.20
-		

Gas Rates

Choke (inches) Pressure (psig) Gas Rate (Mcf/d)

Trilobite Testing, Inc Ref. No: 51382 Printed: 2012.12.05 @ 16:29:09



FLUID SUMMARY

I.A. Operating, Inc.

SW 33 - 2S - 24W

I.A. Operating, Inc. 9915 W 21st St. STE B Witchita KS, 67205 **Jenny # 33-1**Job Ticket: 51382

Serial #:

xet: 51382 **DST#:1**

ATTN: Bob Stolzle

Test Start: 2012.12.04 @ 00:17:00

Mud and Cushion Information

Mud Type:Gel ChemCushion Type:Oil A Pl:deg A PlMud Weight:9.00 lb/galCushion Length:ftWater Salinity:ppm

Mud Weight: 9.00 lb/gal Cushion Length: ft
Viscosity: 54.00 sec/qt Cushion Volume: bbl

6.39 in³ Gas Cushion Type:

Resistivity: ohm.m Gas Cushion Pressure: psig

Salinity: 1000.00 ppm Filter Cake: 1.00 inches

Recovery Information

Water Loss:

Recovery Table

Length ft	Description	Volume bbl
40.00	GOCM - 5%G - 30%o - 65%M	0.197

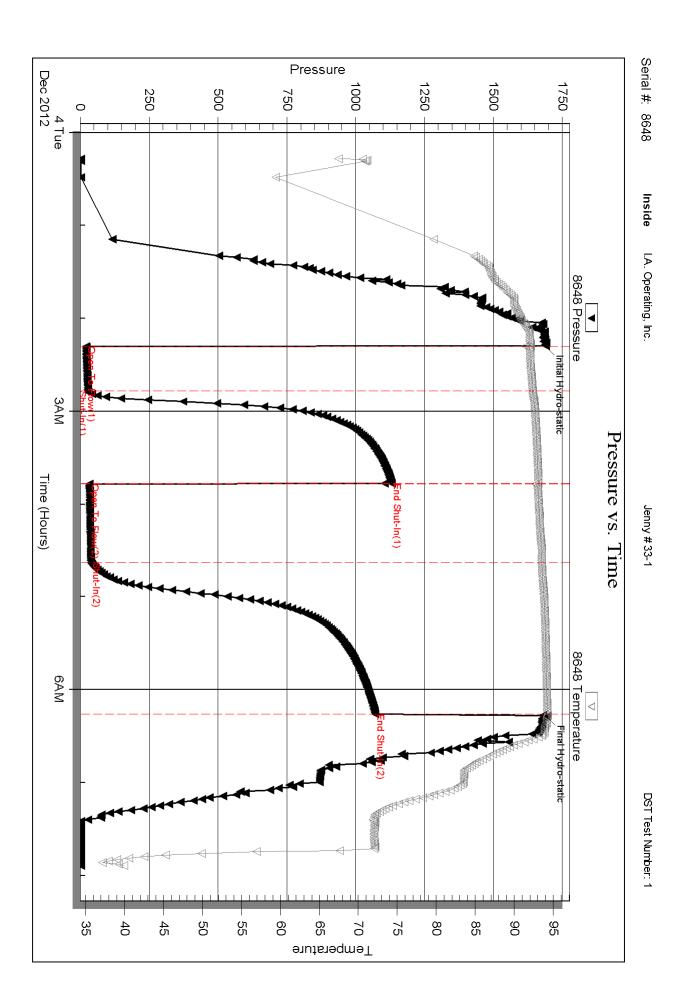
Total Length: 40.00 ft Total Volume: 0.197 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0

Laboratory Name: Laboratory Location:

Recovery Comments:

Trilobite Testing, Inc Ref. No: 51382 Printed: 2012.12.05 @ 16:29:10



Trilobite Testing, Inc

Ref. No:

51382

Printed: 2012.12.05 @ 16:29:11



I.A. Operating, Inc.

SW 33 - 2S - 24W

9915 W 21st St. STE B

Jenny # 33-1

Witchita KS, 67205

ATTN: Bob Stolzle

Job Ticket: 51383 **DST#: 2**

Test Start: 2012.12.05 @ 14:52:00

GENERAL INFORMATION:

Formation: LKC "D-F"

Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)

Time Tool Opened: 16:29:15 Tester: Ryan Nichols

Time Test Ended: 20:47:30 Unit No: 43

Interval: 3486.00 ft (KB) To 3520.00 ft (KB) (TVD) Reference Elevations: 2453.00 ft (KB)

Total Depth: 3520.00 ft (KB) (TVD) 2448.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 5.00 ft

Serial #: 8648 Inside

Press@RunDepth: 25.29 psig @ 3487.00 ft (KB) Capacity: 8000.00 psig

 Start Date:
 2012.12.05
 End Date:
 2012.12.05
 Last Calib.:
 2012.12.05

 Start Time:
 14:52:05
 End Time:
 20:47:29
 Time On Btm:
 2012.12.05 @ 16:29:00

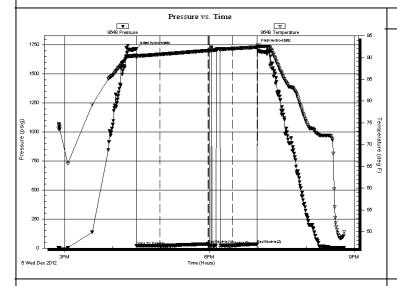
 Time Off Btm:
 2012.12.05 @ 18:59:30

TEST COMMENT: 30 IF - Surface blow died @ 5 min

60 ISI - No return

30 FF - No blow flushed tool @ 1 min w eak surge died in less then 30 secs

30 FSI - No return



PRESSURE SUMMARY

Time	Pressure	Temp	Annotation
(Min.)	(psig)	(deg F)	
0	1716.17	90.50	Initial Hydro-static
1	21.15	90.09	Open To Flow (1)
30	21.92	90.75	Shut-In(1)
89	35.40	91.61	End Shut-In(1)
90	21.96	91.61	Open To Flow (2)
120	25.29	92.09	Shut-In(2)
151	34.81	92.41	End Shut-In(2)
151	1736.34	92.86	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud - 100%	0.02
* Recovery from multiple tests		

Gas Rates

Choke (inches) Pressure (psig) Gas Rate (Mcf/d)

Trilobite Testing, Inc Ref. No: 51383 Printed: 2012.12.06 @ 07:50:45



FLUID SUMMARY

I.A. Operating, Inc. **SW 33 - 2S - 24W**

9915 W 21st St. STE B Witchita KS, 67205 Jenny # 33-1

Job Ticket: 51383

Serial #:

DST#: 2

ATTN: Bob Stolzle

Test Start: 2012.12.05 @ 14:52:00

Mud and Cushion Information

Mud Type:Gel ChemCushion Type:Oil A Pl:deg A PlMud Weight:9.00 lb/galCushion Length:ftWater Salinity:ppm

Mud Weight: 9.00 lb/gal Cushion Length: ft
Viscosity: 60.00 sec/qt Cushion Volume: bbl

Water Loss: 6.80 in³ Gas Cushion Type:

Resistivity: ohm.m Gas Cushion Pressure: psig

Salinity: 1200.00 ppm Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud - 100%	0.025

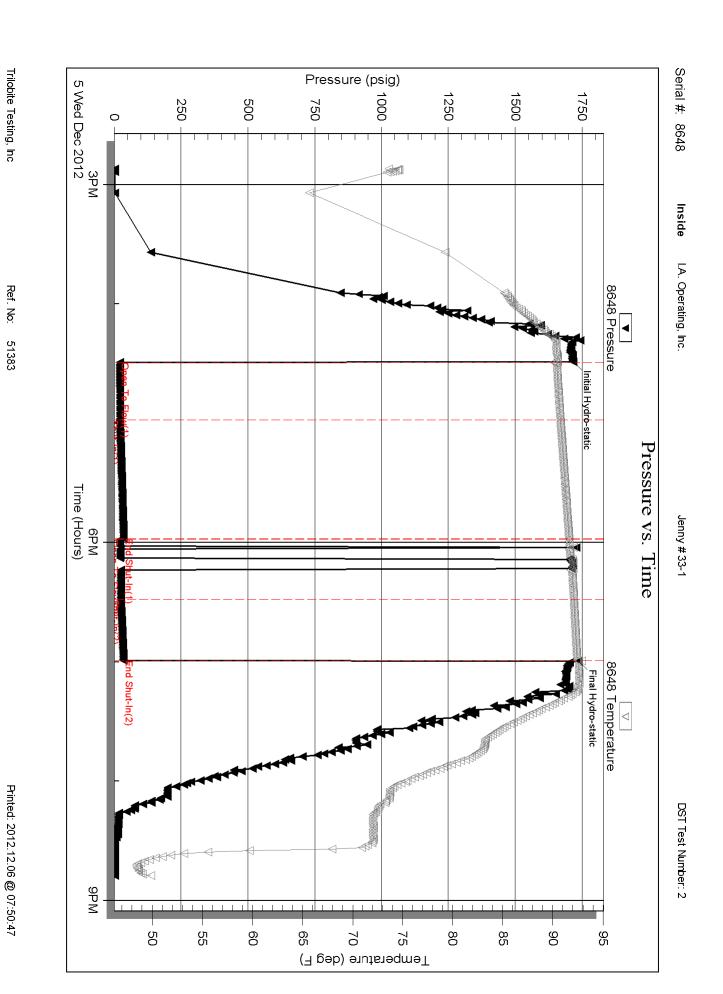
Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0

Laboratory Name: Laboratory Location:

Recovery Comments:

Trilobite Testing, Inc Ref. No: 51383 Printed: 2012.12.06 @ 07:50:46





I.A. Operating, Inc.

SW 33 - 2S - 24W

9915 W 21st St. STE B

Jenny # 33-1

Tester:

Unit No:

Witchita KS, 67205

Job Ticket: 51384 DST#: 3

Ryan Nichols

43

ATTN: Bob Stolzle

Test Start: 2012.12.06 @ 06:43:00

GENERAL INFORMATION:

Formation: LKC "J-K"

Deviated: Test Type: Conventional Bottom Hole (Reset) No Whipstock: ft (KB)

Time Tool Opened: 08:17:45 Time Test Ended: 12:18:15

Interval:

3560.00 ft (KB) To 3610.00 ft (KB) (TVD) Reference Elevations: 2453.00 ft (KB)

Total Depth: 3610.00 ft (KB) (TVD)

7.88 inches Hole Condition: Good KB to GR/CF: Hole Diameter: 5.00 ft

2448.00 ft (CF)

Serial #: 8648 Inside

Press@RunDepth: 3561.00 ft (KB) 49.15 psig @ Capacity: 8000.00 psig

Start Date: 2012.12.06 End Date: 2012.12.06 Last Calib.: 2012.12.06 Start Time: 06:43:05 End Time: 2012.12.06 @ 08:17:30 12:18:14 Time On Btm:

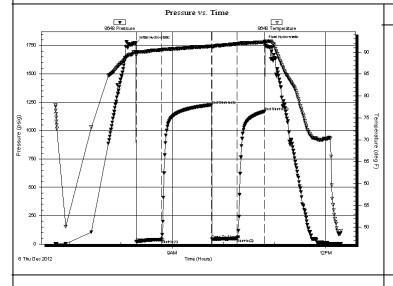
Time Off Btm: 2012.12.06 @ 10:48:45

TEST COMMENT: 30 IF - Surface blow died @ 8 mins

60 ISI - No return

30 FF - Surface blow died @ 1 min

30 FSI - No return



PRESSURE S	SUMMARY
------------	---------

Time	Pressure	Temp	Annotation
(Min.)	(psig)	(deg F)	
0	1770.55	90.02	Initial Hydro-static
1	21.58	89.33	Open To Flow (1)
30	40.63	90.52	Shut-In(1)
89	1226.93	91.34	End Shut-In(1)
90	44.29	91.13	Open To Flow (2)
119	49.15	91.88	Shut-In(2)
151	1169.52	92.29	End Shut-In(2)
152	1772.25	92.50	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)	
61.00	Mud - 100%	0.30	
* Recovery from multiple tests			

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
----------------	-----------------	------------------

Trilobite Testing, Inc. Ref. No: 51384 Printed: 2012.12.06 @ 12:53:48



FLUID SUMMARY

I.A. Operating, Inc. **SW 33 - 2S - 24W**

9915 W 21st St. STE B Witchita KS, 67205 Jenny # 33-1

Job Ticket: 51384

Serial #:

DST#: 3

ATTN: Bob Stolzle

Test Start: 2012.12.06 @ 06:43:00

Mud and Cushion Information

Mud Type:Gel ChemCushion Type:Oil A Pl:deg A PlMud Weight:9.00 lb/galCushion Length:ftWater Salinity:ppm

Mud Weight: 9.00 lb/gal Cushion Length: ft
Viscosity: 54.00 sec/qt Cushion Volume: bbl

Water Loss: 6.39 in³ Gas Cushion Type:

Resistivity: ohm.m Gas Cushion Pressure: psig

Salinity: 1000.00 ppm Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
61.00	Mud - 100%	0.300

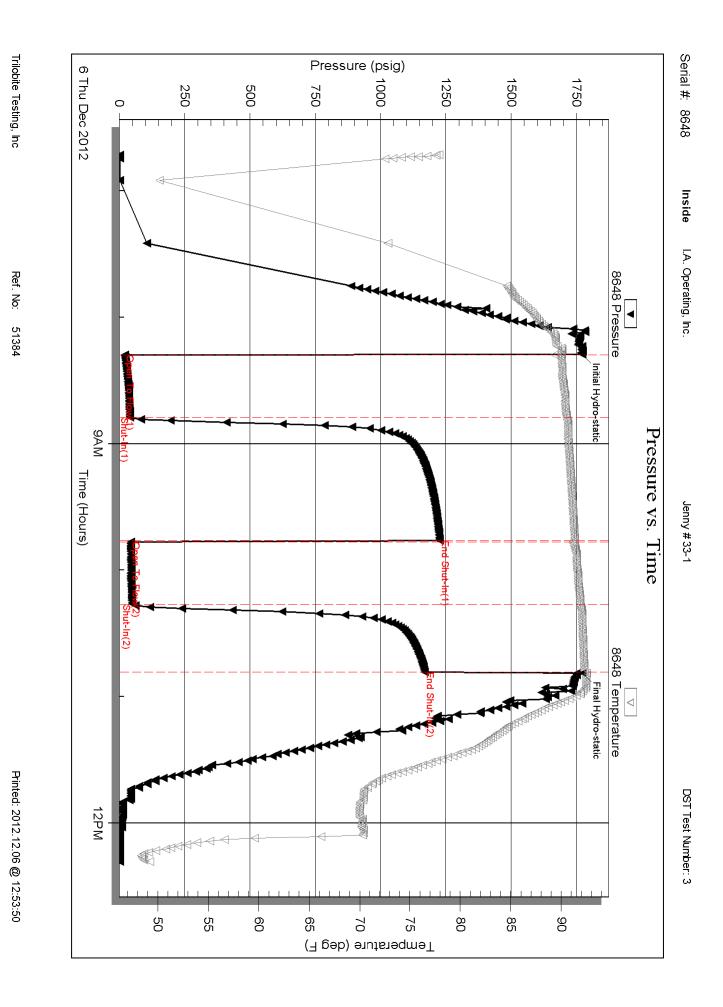
Total Length: 61.00 ft Total Volume: 0.300 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0

Laboratory Name: Laboratory Location:

Recovery Comments:

Trilobite Testing, Inc Ref. No: 51384 Printed: 2012.12.06 @ 12:53:49





IA Operating, Inc.

SW 33 - 2S - 24W

9915 W 21st St. STE B Witchita KS, 67205 Jenny # 33-1

Job Ticket: 51385

DST#: 4

ATTN: Bob Stolzle

Test Start: 2012.12.06 @ 23:38:00

GENERAL INFORMATION:

Formation: Regan SS.

Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)

Time Tool Opened: 01:35:00 Time Test Ended: 06:49:15 Tester: Ryan Nichols

Unit No: 43

Interval: 3630.00 ft (KB) To 3695.00 ft (KB) (TVD)

Reference Elevations:

2453.00 ft (KB)

Total Depth: 3695.00 ft (KB) (TVD)

2448.00 ft (CF)

Hole Diameter: 7.

7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8648
Press@RunDepth:

Inside

28.84 psig @

3631.00 ft (KB)

Capacity:

8000.00 psig

Start Date:

2012.12.06

End Date:

2012.12.07 Last Calib.: 06:49:14 Time On Btm:

2012.12.07

Start Time:

23:38:05

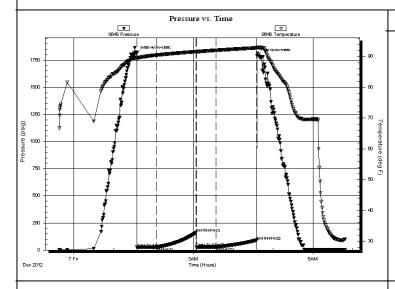
End Time:

Time Off Btm:

2012.12.07 @ 01:34:45 2012.12.07 @ 04:35:45

TEST COMMENT: 30 IF - Surface blow built to 1/4" died @ 11 mins

60 ISI - No return 30 FF - No blow 60 FSI - no return



PRESSURE SUMMARY

Time	Pressure	Temp	Annotation
(Min.)	(psig)	(deg F)	
0	1814.24	89.76	Initial Hydro-static
1	24.16	88.89	Open To Flow (1)
30	26.48	90.46	Shut-In(1)
90	161.77	91.59	End Shut-In(1)
90	28.20	91.56	Open To Flow (2)
120	28.84	92.03	Shut-In(2)
181	88.19	92.80	End Shut-In(2)
181	1789.66	93.03	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)		
5.00	Mud - 100%	0.02		
* Recovery from multiple tests				

Gas Rates

Choke (inches) Pressure (psig) Gas Rate (Mcf/d)

Trilobite Testing, Inc Ref. No: 51385 Printed: 2012.12.07 @ 07:54:54



FLUID SUMMARY

DST#: 4

IA Operating, Inc. SW 33 - 2S - 24W

9915 W 21st St. STE B **Jenny # 33-1**

Witchita KS, 67205 Job Ticket: 51385

ATTN: Bob Stolzle Test Start: 2012.12.06 @ 23:38:00

Serial #:

Mud and Cushion Information

Mud Type:Gel ChemCushion Type:Oil A Pl:deg A PlMud Weight:9.00 lb/galCushion Length:ftWater Salinity:ppm

Mud Weight:9.00 lb/galCushion Length:ftViscosity:54.00 sec/qtCushion Volume:bbl

Water Loss: 6.39 in³ Gas Cushion Type:

Resistivity: ohm.m Gas Cushion Pressure: psig

Salinity: 1000.00 ppm Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud - 100%	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0

Laboratory Name: Laboratory Location:

Recovery Comments:

Trilobite Testing, Inc Ref. No: 51385 Printed: 2012.12.07 @ 07:54:55

