## KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

1272795

Form ACO-1 November 2016 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.:
Name:	Spot Description:
Address 1:	
Address 2:	Feet from Dorth / South Line of Section
City: State: Zip:+	Feet from East / West Line of Section
Contact Person:	Footages Calculated from Nearest Outside Section Corner:
Phone: ()	
CONTRACTOR: License #	GPS Location: Lat:, Long:
Name:	(e.g. xx.xxxx) (e.gxxx.xxxxx)
Wellsite Geologist:	Datum: NAD27 NAD83 WGS84
Purchaser:	County:
Designate Type of Completion:	Lease Name: Well #:
New Well Re-Entry Workover	Field Name:
	Producing Formation:
☐ Oil ☐ WSW ☐ SWD □ Gas □ DH □ EOR	Elevation: Ground: Kelly Bushing:
	Total Vertical Depth: Plug Back Total Depth:
CM (Coal Bed Methane)	Amount of Surface Pipe Set and Cemented at: Feet
Cathodic Other (Core, Expl., etc.):	Multiple Stage Cementing Collar Used?
If Workover/Re-entry: Old Well Info as follows:	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: Original Total Depth:	
Deepening Re-perf. Conv. to EOR Conv. to SWD	Drilling Fluid Management Plan
Plug Back Liner Conv. to GSW Conv. to Producer	(Data must be collected from the Reserve Pit)
	Chloride content:ppm Fluid volume:bbls
Commingled Permit #:	Dewatering method used:
Dual Completion Permit #:	
SWD Permit #:	Location of fluid disposal if hauled offsite:
EOR Permit #:	Operator Name:
GSW Permit #:	License #:
	Quarter Sec TwpS. R East West
Spud Date or         Date Reached TD         Completion Date or           Recompletion Date         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 Drill Stem Tests Received
Geologist Report / Mud Logs Received
UIC Distribution
ALT I II III Approved by: Date:

	Page Two	
		1272795
Operator Name:	Lease Name:	Well #:
Sec TwpS. R East West	County:	
INCTDUCTIONS. Chow important tang of formations paratrated	atail all aaroo Bapart all final	annian of drill atoms toots giving interval tootod, time tool

**INSTRUCTIONS:** Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken (Attach Additional Sh	aata)	Y	es 🗌 No		L	.og	Formatio	n (Top), Dept	h and Datum	Sample
Samples Sent to Geolog TCores aken Electric Log Run Geologist Report	gical Survey		es No es No es No es No es No		Nam	e			Тор	Datum
List All E. Logs Run:										
		Repo	CASING ort all strings set-c	RECORD	Ne ace, inte		Jsed , producti	on, etc.		
Purpose of String	Size Hole Drilled		ze Casing t (In O.D.)	Weigh Lbs. / F			tting epth	Type of Cement	# Sacks Used	Type and Percent Additives
			ADDITIONAL	CEMENTING	G / SQL	JEEZE F	ECORD	-		·
Purpose: Perforate	Depth Top Bottom	Туре	e of Cement	# Sacks U	lsed			Туре а	nd Percent Additives	
Protect Casing Plug Back TD Plug Off Zone										
<ol> <li>Did you perform a hydra</li> <li>Does the volume of the</li> <li>Was the hydraulic fractu</li> <li>Date of first Production/Inj Injection:</li> </ol>	total base fluid of the h ring treatment informa	nydraulic fra tion submit	acturing treatment tted to the chemic Producing Meth	al disclosure re	egistry?		] Yes ] Yes ] Yes	No (If No	n, skip questions 2 an n, skip question 3) n, fill out Page Three	
-			Flowing	Pumping		Gas Lift		ther (Explain) _		
Estimated Production Per 24 Hours	Oil I	3bls.	Gas	Mcf	Wat	er	Bt	bls.	Gas-Oil Ratio	Gravity
DISPOSITION	I OF GAS:		N Open Hole	IETHOD OF C	-	TION:		nmingled	PRODUCTIC Top	DN INTERVAL: Bottom
(If vented, Subm						ACO-5)		nit ACO-4)		
	oration Perfora		Bridge Plug Type	Bridge Plug Set At			Acid,		Cementing Squeeze Kind of Material Used)	
								×	,	
TUBING RECORD:	Size:	Set At:		Packer At:						

Form	ACO1 - Well Completion
Operator	Shelby Resources LLC
Well Name	Elsie Unit 1-3
Doc ID	1272795

All Electric Logs Run

Dual Induction
Compensated Neutron
Micro
Sonic

Form	ACO1 - Well Completion
Operator	Shelby Resources LLC
Well Name	Elsie Unit 1-3
Doc ID	1272795

Tops

Name	Тор	Datum
Heebner	3434	-1434
L-KC	3551	-1551
Stark Shale	3740	-1740
ВКС	3793	-1793
Penn. Congl.	3828	-1828
Simpson Shale	3934	-1934
Arbuckle	4011	-2011
LTD	4116	-2116

Form	ACO1 - Well Completion
Operator	Shelby Resources LLC
Well Name	Elsie Unit 1-3
Doc ID	1272795

# Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Type and Percent Additives
Surface	12.25	8.625	23	1016	60/40 Poz	2% gel / 3% cc



# DRILL STEM TEST REPORT

Prepared For:

# SHELBY RESOURCES LLC

621 17th STREET SUITE 1155 DENVER, COLORODO 80293

ATTN: JERMEU SCHWARTZ

# **ELSIE UNIT 1-3**

# **3-22S-16W PAWNEE**

 Start Date:
 2015.11.11 @ 01:25:00

 End Date:
 2015.11.11 @ 06:25:00

 Job Ticket #:
 01250
 DST #: 1

Eagle Testers 1309 Patton Road Great Bend, Kansas 67530 620-791-7394

<b>L -</b> -							
Eagle ?	DRILL STEM TES			S 16\M	PAWNE		
- Teatera						E	
	621 17th STREET SUITE 1155 DENVER, COLORODO 80293		ELSIE UNIT 1-3 Job Ticket: 01250 DST#:				• 1
Great Sends Raneas	ATTN: JERMEU SCHWARTZ				)15.11.11 @	_	
GENERAL INFORMATION:							
Formation: CONGLOMERATE							
Deviated: No Whipstock: Time Tool Opened: 03:17:00 Time Test Ended: 06:25:00	ft (KB)		Test Teste Unit N	er: (	Convention GENE BUDI 1		ole (Initial)
Interval:         3826.00 ft (KB) To           Total Depth:         3881.00 ft (KB) (	TVD)		Refe	rence Ee		1989.0	0 ft (KB) 0 ft (CF)
Hole Diameter: 7.88 inches H	ole Condition: Fair			KB t	o GR/CF:	11.0	0 ft
	End Date: End Time:			8tm: 2 3tm: 2 ED	2015.11.11 2015.11.11	-	1 0
2ND SHUT-IN Pressure vs	NONE TAKEN				RESUMN		
9119 Pressure	9119 Temperature	Time	Pressure	Temp	Annotati		
		(Min.) 0	(psia) 2001.61	(deg F) 108.64	Initial Hydr	ro static	
		1	55.86	108.37	Open To F	Flow (1)	
	95	21 50	59.65 95.19	108.72	Shut-In(1) End Shut-		
		50	59.08	109.11 109.10	Open To F	. ,	
9         629         -		66 70	64.21 2002.59	109.49 110.41			
270 0 0 11 Wed Nov 2015 2744 3744 3744 3744 3744 3744 3744 3744							
Recover	,		ļļ.	Ga	s Rates		
Length (ft) Description	Volume (bbl)			Choke (ii	nches) Press	ure (psia)	Gas Rate (Mcf/d)
15.00 drilling mud	0.21						
Eagle Testers	Ref. No: 01250			<u> </u>	2015.11.11		

+		DRILL STEM TES	TREP	ORT				
		SHELBY RESOURCES LLC			2S-16W	PAWNE	E	
	asters	621 17th STREET SUITE 1155						
Canone Se	Bond Romens	DENVER, COLORODO 80293			Ticket: 01		DST#	¢:1
Juin C		ATTN: JERMEU SCHWARTZ		Test	t Start: 20	)15.11.11 (	@ 01:25:00	I
GENERAL IN	IFORMATION:							
Formation: Deviated: Time Tool Opene Time Test Endeo		ft (KB)		Tes Tes Unit	ter: (	Conventior GENE BUD 1		Hole (Initial)
<b>Interval:</b> Total Depth: Hole Diameter:	3826.00 ft (KB) To 38 3881.00 ft (KB) (Tv 7.88 inchesHole			Refe	erence Ele KB t	evations: to GR/CF:	1989.0	00 ft (KB) 00 ft (CF) 00 ft
Serial #: 91: Press@RunDep Start Date: Start Time: TEST COMM	th: 93.77 psia 2015.11.11 01:25:00 ENT: 1ST OPENING 1 1ST SHUT-IN 3	End Date: End Time: 5 MINUTES-WEAK SURFACE BLO 30 MINUTES-NO BLOW BACK 20 MINUTES-NO BLOW -FLUSHED			o.: Btm: 2 Btm: 2		5000.0 2015.11.1 @ 03:14:0 @ 04:23:3	00
	Pressure vs. 7	ime		PF	RESSUE			
2000 1759 1250 1250 1300 739 500 239 244 11 Wed Hev 2015		959 Temponalue - 199 - 00 -	Time (Min.) 0 1 16 50 50 66 70	Pressure (psia) 1997.62 57.83 59.44 93.77 58.81 64.35 1932.22	Temp (deg F) 108.71 108.23 108.44 109.71	Annotat Initial Hyd Open To Shut-In(1 End Shut- Open To Shut-In(2	ion Flow (1) ) -In(1) Flow (2) )	
Recovery			Gas Rates					
Length (ft)	Description drilling mud	Volume (bbl) 0.21			Choke (i	nches) Pres	sure (psia)	Gas Rate (Mcf/d)
Eagle Tester		Ref. No: 01250			<b>D</b> · / ·	2015.11.1	4 0 00 00	

			DRI	LL STE	<b>M</b> TEST	REPO	RT	TOOL DIAGRA			
	<u>y l</u> e		SHELB	Y RESOURCE	SLLC		3-22S-16W PAWNEE				
			-	th STREET SL			ELSIE UNIT 1-3				
amas	and h	anna a		r, colorod	O 80293		Job Ticket: 01250	DST#:1			
Juin 6			ATTN:	JERMEU SCI	HWARTZ		Test Start: 2015.11.11 @	01:25:00			
Tool Informatio	on		Į								
Drill Pipe:	Length:	3812.00 ft	Diameter:	3.80 in	ches Volume:	53.47 bbl	Tool Weight:	2000.00 lb			
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 in	ches Volume:	0.00 bbl	J				
Drill Collar:	Length:	0.00 ft	Diameter:	0.00 in	ches Volume:	0.00 bbl	Weight to Pull Loose:	110000.0 lb			
Drill Pipe Above ł	KB.	15.00 ft			Total Volume:	53.47 bbl		0.00 ft			
Depth to Top Pac		3826.00 ft					String Weight: Initial	65000.00 lb			
Depth to Bottom I		3020.00 It ft					Final	65000.00 lb			
Interval between		54.78 ft									
Tool Length:	rrackers.	83.78 ft									
Number of Packe	ers.	2	Diameter:	6.75 in	ches						
		-	Blamotor.	0.70	01100						
Tool Comments:											
	on	Le	nath (ft)	Serial No.	Position	Depth (ft)	Accum, Lengths				
Tool Descriptio	on	Le	• • •	Serial No.	Position	• • •	Accum. Lengths				
<b>Tool Descriptic</b> Shut In Tool	on	Le	<b>ngth (ft)</b> 5.00 5.00	Serial No.	Position	<b>Depth (ft)</b> 3802.00 3807.00	Accum. Lengths				
<b>Tool Descriptio</b> Shut In Tool Hydraulic tool	on	Le	5.00	Serial No.	Position	3802.00	Accum. Lengths				
<b>Tool Descriptio</b> Shut In Tool Hydraulic tool Jars	on	Le	5.00 5.00	Serial No.	Position	3802.00 3807.00	Accum. Lengths				
	on	Le	5.00 5.00 7.00	Serial No.		3802.00 3807.00 3814.00	Accum. Lengths				
<b>Tool Descriptio</b> Shut In Tool Hydraulic tool Jars Safety Joint Top Packer	on	Le	5.00 5.00 7.00 2.00	Serial No.		3802.00 3807.00 3814.00 3816.00	Accum. Lengths 29.00	Bottom Of Top Packer			
Tool Description Shut In Tool Hydraulic tool Jars Safety Joint Top Packer Packer Anchor		Le	5.00 5.00 7.00 2.00 5.00	Serial No.		3802.00 3807.00 3814.00 3816.00 3821.00		Bottom Of Top Packer			
Tool Description Shut In Tool Hydraulic tool Jars Safety Joint Top Packer Packer Anchor Change Over Sul		Le	5.00 5.00 7.00 2.00 5.00 5.00	Serial No.		3802.00 3807.00 3814.00 3816.00 3821.00 3826.00		Bottom Of Top Packer			
Tool Description Shut In Tool Hydraulic tool Jars Safety Joint Top Packer Packer Anchor Change Over Sul		Le	5.00 5.00 7.00 2.00 5.00 5.00 5.00	Serial No.		3802.00 3807.00 3814.00 3816.00 3821.00 3826.00 3831.00		Bottom Of Top Packer			
<b>Tool Descriptio</b> Shut In Tool Hydraulic tool Jars Safety Joint	b	Le	5.00 5.00 7.00 2.00 5.00 5.00 5.00 0.75	Serial No.		3802.00 3807.00 3814.00 3816.00 3821.00 3826.00 3831.00 3831.75		Bottom Of Top Packer			
Tool Description Shut In Tool Hydraulic tool Jars Safety Joint Top Packer Packer Anchor Change Over Sul Drill Pipe	b	Le	5.00 5.00 7.00 2.00 5.00 5.00 5.00 0.75 31.28	Serial No.		3802.00 3807.00 3814.00 3816.00 3821.00 3826.00 3831.00 3831.75 3863.03		Bottom Of Top Packer			

Total Tool Length: 83.78

0.00

5.00

9139

Outside

3875.78

3880.78

54.78

Recorder

Bullnose

Anchor Tool

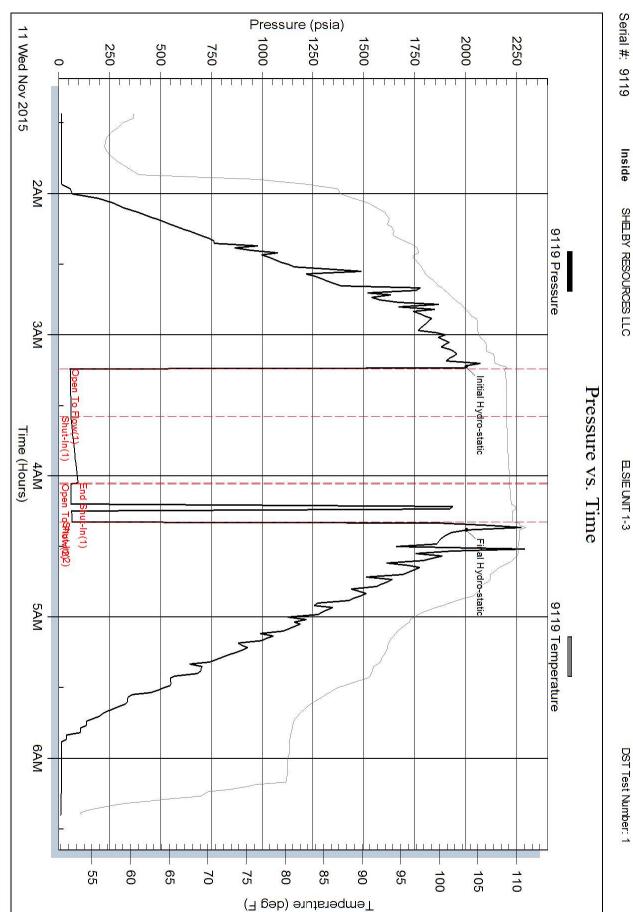
t 🖻		DRI	DRILL STEM TEST REPORT						
		SHELB	Y RESO	URCES LLC		3-22S-16V	<b>V PAWNEE</b>		
		-		ET SUITE 1155		ELSIE UN	IT 1-3		
Correct	Bond Rancos	DENVE	DENVER, COLORODO 80293				)1250	DST#:1	
		ATTN: JERMEU SCHWARTZ				Test Start: 2	1:25:00		
Mud and Cu	shion Information	1							
Mud Type: Ge	el Chem			Cushion Type:			Oil A PI:		deg API
Mud Weight:	9.00 lb/gal			Cushion Length:		ft	Water Salinity:		ppm
Viscosity:	57.00 sec/qt			Cushion Volume:		bbl			
Water Loss:	8.40 in <sup>3</sup>			Gas Cushion Type:					
Resistivity:	ohm.m			Gas Cushion Pressure:		psia			
Salinity:	4800.00 ppm								
Filter Cake:	1.00 inches								
Recovery In	formation								
				Recovery Table					
	Len			Description		Volume bbl			
		15.00	drilling	mud		0.210	2		
	Total Length:	15	.00 ft	Total Volume:	0.210 bbl				
	Num Fluid San	nples: 0		Num Gas Bombs: 0	)	Serial #	÷		
	Laboratory Na	ame:		Laboratory Location:					

Recovery Comments:

Printed: 2015.11.11 @ 06:39:30

Ref. No: 01250



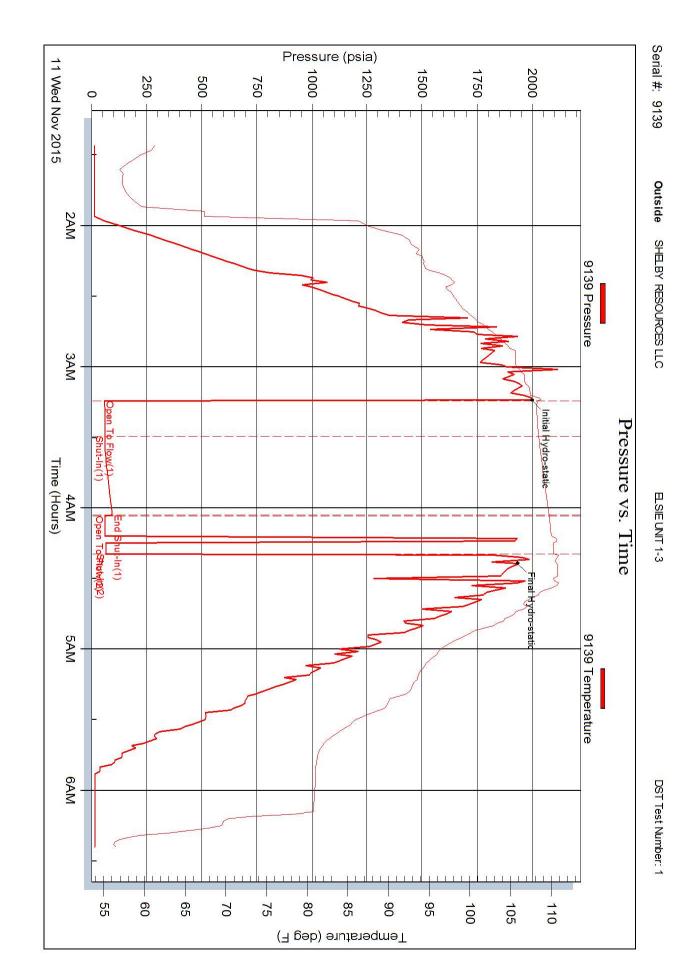


DST Test Number: 1



Ref. No: 01250





QUALI	TY OILW	ELL C	<b>EMENT</b>	ING, IN	IC.
one 785-483-2025 Cell 785-324-1041			ussell, KS 67665	No	1287
Date 11-8-15 Sec. 3	Twp. Range	County Pawnee	State KS	On Location	5:45Am
Lesse Elsie uni	¥	Location Lam	ed, Ks - 5	to K-19	Hwy, 20
Lease LIJIE	Well No. / -	3 Owner to	goth Rd.	V2N WS	10
Contractor Stelling	14		Oilwell Cementing, Inc		
Type Job Surface		cementer a	ereby requested to ren and helper to assist ov	t cementing equipment oner or contractor to c	ht and furnish lo work as listed.
Hole Size	T.D. 1020'	Charge To	Shelbu Re.	joucces	de la
Csg. 8 5/811	Depth 1016'	Street			
Tbg. Size	Depth	City	k William Anna Anna Anna Anna Anna Anna Anna An	State	·
Table of the sector bear in the	Distance of the second				

Tbg. Size	Deptn	City State	
Tool	Depth	The above was done to satisfaction and supervision of owner	agent or contractor.
Cement Left in Csg. 31.19'	Shoe Joint 31.19	Cement Amount Ordered 450 60/40 3%	
Meas Line	Displace 62 3/4 BLS	1/2# Flo.seal	and set the
EQUIPM	<b>MENT</b>	Common 270	ere duna significa
Pumptrk 8 No. Cementer B	illy	Poz. Mix / SO	
	-b.e	Gel. 9	P. Brendlanne Inde
Bulktrk p. U.No. Driver Price	K	Calcium / 9	
JOB SERVICES	& REMARKS	Hulls	ON MARCH
Remarks: Cement did	Cicculate,	Salt	Contraction of the second s
Rat Hole	un <b>ges h</b> eren die ster verster eine	Flowseal 22.54	
Mouse Hole		Kol-Seal	
Centralizers		Mud CLR 48	SCI5. UNITAL
Baskets		CFL-117 or CD110 CAF 38	4q2.0075.
D/V or Port Collar		Sand	
		Handling 477	
		Mileage	end on a fair of organization
		FLOAT EQUIPMENT	ober VIII / A
		Guide Shoe - Weld on	The second se
		contralizor Baffle plote	stra-sport Datason -
		Baskets Rubber Plucy	2834 /AA 44 A 44
		AFU Inserts	
and the second		Float Shoe	AUG set stars
		Latch Down	804 1. au
			10
			-2
		Pumptrk Charge Long Surface	niel class
en de la servicie de		Mileage 23	1
		Tax	10
4	<u> </u>	Discount	
X Signature	Jahre	Total Charge	

ne 785-483-2025 ell 785-324-1041	Home Offic	e P.O. Bo	x 32 Ru	ssell, KS 67665	<b>;</b>	No.	1290
Date 11-12-15 Sec. 3	Twp. Range	(6)	ounty	KS	On Loca	ition	7: 30 Pr
Lease Elsie uni	Well No.	Location	owner W	R.KS + K-	19, 2E	to	90 th Rd, 1
Contractor Stesling Type Job Plwy	<u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u>		You are here	Dilwell Cementing, I eby requested to re ad helper to assist o	nt cementing eq	uipmen tor to de	t and furnish o work as listed.
Hole Size	T.D. 4115 Depth	to to set at	Charge < To	Shelby	Resource	es	
Csg. Tbg. Size 41/2 D.P.	Depth 401		Street City	<u>si</u>	State		
Tool	Depth Shoe Joint			as done to satisfaction ount Ordered $22$	n and supervision	of owner Yb	agent or contracto
Meas Line EQUIPN	Displace H201	mud	Common	(2)		ANA HU	DNM OI
Pumptrk 8 No. Cementer Helper No. Driver	avis		Poz. Mix Gel.	88	1 	k	
Bulktrk D.U. No. Driver D. II Bulktrk D.U. Driver R. JOB SERVICES	तरे		Calcium				
Remarks: 4011 -	SO SKS		Hulls Salt				
Rat Hole 1040'	So sks		Flowseal 🤳 Kol-Seal	35#			
Centralizers 60' - 2 Baskets Rathola -	20 5KS - 30 SKS	-	Mud CLR 4	8 CD110 CAF 38		soe ya adina i	
DIV or Port Collar Mousehole	- 20 5KS	1.	Sand Handling				
	no		Mileage				
Cement did	Citch		Guide Shoe	FLOAT EQUI	PMENT		
			Centralizer Baskets				
			AFU Inserts Float Shoe	<u>/</u>			
	· · · · · · · · · · · · · · · · · · ·		Latch Down			nostigo	
	$\mathbf{CH}$		Pumptrk Ch	arge plug			
en e			Mileage 2	30-1		Tax	
X Signature	1					iscount Charge	

1

	Scale 1:240 Imperia	al	
Well Name: Surface Location:	Elsie Unit #1-3 2326' FSL_168' FEL Sec. 3-22	S-16W	
Bottom Location: API:	15-145-21812-00-00		
License Number: Spud Date: Region:	11/7/2015 Pawnee County	Time:	7:15 AM
Drilling Completed: Surface Coordinates:	11/12/2015	Time:	12:00 AM
Bottom Hole Coordinates: Ground Elevation: K.B. Elevation: Logged Interval: Total Depth: Formation: Drilling Fluid Type:	1989.00ft 2000.00ft 3200.00ft 4115.00ft Simp/Cong Sand Chemical/Fresh Water Gel	To:	4115.00ft
	OPERATOR		
Company: Address:	Shelby Resources, LLC 621 17TH ST, STE 1155 DENVER, CO. 80293		
Contact Geologist: Contact Phone Nbr: Well Name: Location: API:	Janine Sturdavant 303-907-2209 / 720-274-4682 Elsie Unit #1-3 2326' FSL _168' FEL Sec. 3-22 15-145-21812-00-00	S-16W	
Pool: State:	Kansas	Field: Country:	Wildcat USA
	LOGGED BY		
Company: Address:	Shelby Resources, LLC 621 17TH ST, STE 1155 DENVER, CO. 80293		
Phone Nbr: Logged By:	203-671-6034 Geologist	Name:	Jeremy Schwartz

## NOTES

The Shelby Resources, LLC Elsie Unit #1-3 was drilled to a total depth of 4115', bottoming in the Arbuckle. A TookeDaq gas detector was employed in the drilling of said well.

1 DST was conducted. The report can be found at the bottom of this log.

Due to the DST results, gas kicks, sample shows, and log analysis, it was determined by all consenting parties to plug and abandon the well. The dry samples were saved and will be available for furthur review at the Kansas Geological Society Well Sample Library, located in Wichita, KS.

Respectfully Submitted, Jeremy Schwartz Geologist

> Contractor: Sterling Drilling Co Rig #: 4 Rig Type: mud rotary

# CONTRACTOR

Spud Date: TD Date: Rig Release:	11/7/2015 11/12/2015	Tim Tim Tim

me: 7:15 AM me: 12:00 AM me:

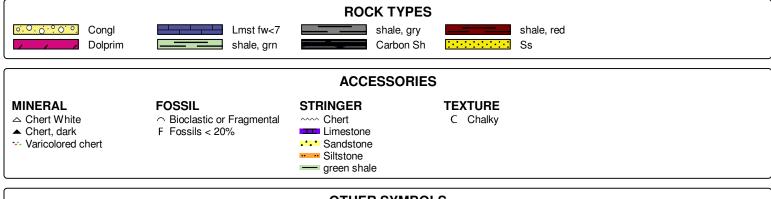
### **ELEVATIONS**

K.B. Elevation: 2000.00ft K.B. to Ground: 11.00ft Ground Elevation: 1989.00ft

DATE	DEPTH	ACTIVITY
Tuesday, November 10, 2015	3500'	Geologist Jeremy Schwartz on location @ 0245hrs, Drlg Ahead through Douglas Shale,
		Brown Lime, Lansing, Stark Shale, BKC, Marmaton, CFS @ 3810', CTCH 1hour, Drop
	3810'	Survey, Strap out, Conduct Bit Trip, Swap PDC for Button Bit, Successful Bit Trip,
		Resume Drlg ahead through Marmaton, Penn Conglomerate, Penn sand, CFS @ 3881',
	3881'	Conduct DST #1 in the Penn Conglomerate,
Wednesday, November 11, 2015	3881'	Successful Test, Resume Drlg, CFS @ 3896', Resume Drlg, CFS @ 3956', Resume Drlg
	3956'	CFS @ 4016, Drill ahead to TD of 4115' due to lack of shows and/or gas kick in Arbuckle
Thursday, November 12, 2015	4115'	TD of 4115' reached @ 0000hrs, CTCH 1hour, OOH to conduct logging operations,
		Logging Operations complete @ 0900hrs
		Geologist Jeremy Schwartz off location @ 0930hrs

CLIENT:	SHELBY RESOURCES, LLC	
WELL NAME:	ELSIE UNIT #1-3	
LEGAL:	NE NE SE 3-22S-16W	
COUNTY:	PAWNEE COUNTY, KS	
API :	15-142-21812-00-00	
DRLG CONTRACTOR:	STERLING DRILLING CO.	
RIG #:	4	
DOGHOUSE #:	620-388-4192	
TOOLPUSHER:	LANNY SALOGA	
CELL #:	620-388-4193	

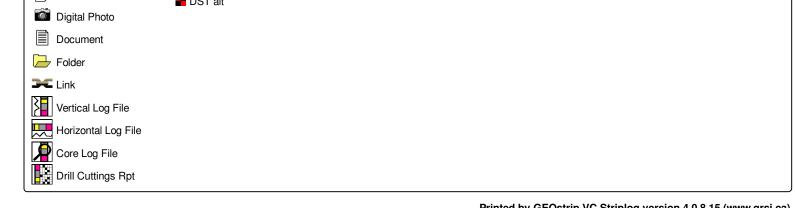
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							•	_				D	&A					D	&A			
						SHELBY RES	SOUR	ŒS, LL	С			SHELBY RES	SOUR	CES, LL	С			SHELBY RES	OURC	ES, LLO	3	
					ARKANSAS RIVER UNIT #1-3				BUSTER #2-3					WFYOG#1-2								
		ELSIE U	NIT #1-3		C S/2 S/2 NE/4 3-225-16W			SE SE SW 3-225-16W				NE SW NW NE 2-225-16W										
	KB		2000		KB	KB 1999		KB			005			KB	2016							
		TOPS	1. <u>Vicinización</u>	LE TOPS		P. CARD		OG	SM		5,0,000	. CARD	-	DG		IPL.	[4] /2170.02419	CARD		OG	_	MPL.
FORMATION	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	CC	RR.	CO	_		DATUM	CO	RR.	CO	_	DEPTH	DATUM	CO	ORR.	CC	DRR.
ANHYDRITE TOP	1000	1000	1004	996	1000	999	+	1		3	1002	1003	-	3	. *	7	994	10 22		22	-	26
BASE	1018	982	1023	977	1024	975	+	7	+	2	10 29	976	÷	6	+	1	10 20	996		14	+	19
TOPEKA	3164	-1164	3167	-1167	3161	-1162	-	2	1	5	3171	-1166	+	2	1	1	3147	-1131		33	1	36
HEEBNER SHALE	3434	-1434	3435	-1435	3430	-1431	-	3		4	3443	-1438	+	4	+	3	3413	-1397		37	4	38
TORONTO	3450	-1450	3451	-1451	3446	-1447	14	3	14	4	3460	-1455	+	5	+	4	34 29	-1413		37	144	3
DOUGLAS SHALE	3470	-1470	3466	-1466	3463	-1464	*	6		2	3477	-1472	+	2	+	6	3448	-1432		38	-	34
BROWN LIME	3541	-1541	3542	-1542	3540	-1541	+	0	1	1	3548	-1543	+	2	+	1	3521	-1505	-	36	-	37
LKC	3551	-1551	3554	-1554	3549	-1550	-	1	æ	4	3556	-1551	+	0	-	3	3528	-1512		39	+	47
STARK S HALE	3740	-1740	3740	-1740	3735	-1736		4	10	4	3751	-1746	+	6	+	6	3720	-1704	-+-	36	-	30
BKC	3793	-1793	3790	-1790	3787	-1788	1	5		2	3800	-1795	+	2	÷	5	3768	-1752		41	1	3
MARMATON	3810	-1810	3808	-1808	3810	- 1811	+	1	+	3	38 23	-1818	+	8	÷	10	3788	-1772		38	-	3
PENN CONGL	3828	-1828	3830	-18 30	3824	-1825	-	3	J.	5	38 38	-1833	+	5	+	3	3804	-1788	-	40	-	4
PENN SAND			3862	-1862	3857	-1858				4	38 70	-1865			+	3	38 32	-1816			- 31	4
SIMPSONSHALE	3934	-1934	3934	-19 34	3917	-1918		16	19	16	3942	-1937	+	3	+	3	3876	-1860	14	74	14	74
<b>SIMPSON SAND</b>	3952	-1952	3950	-19 50	3934	-1935	-	17		15	3951	-1946	-	6	*	4	3888	-1872		80	4	7
ARBUCKLE	4011	-2011	4011	-2011	3991	-1992		19	2	19	4013	-2008		3	1	3	39 57	-1941		70	-	70
RTD			4115	-2115	4100	-2101			18	14	4110	-2105			-	10	40 50	-2034			1	8:
LTD	4116	-2116			4101	- 210 2	14	14			4110	-2105	-	11			40 50	-2034		82		

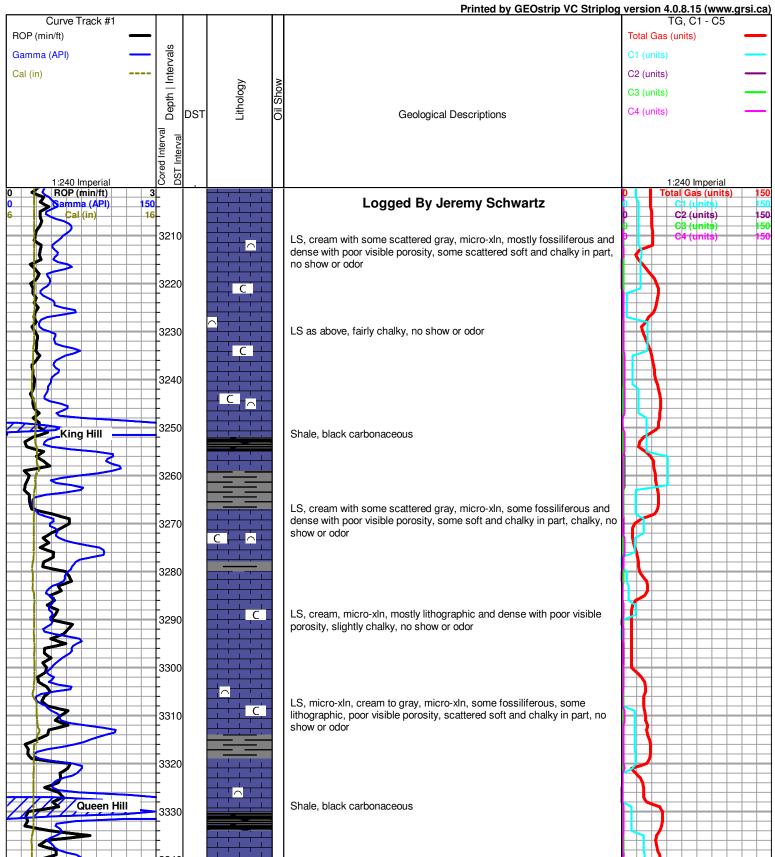


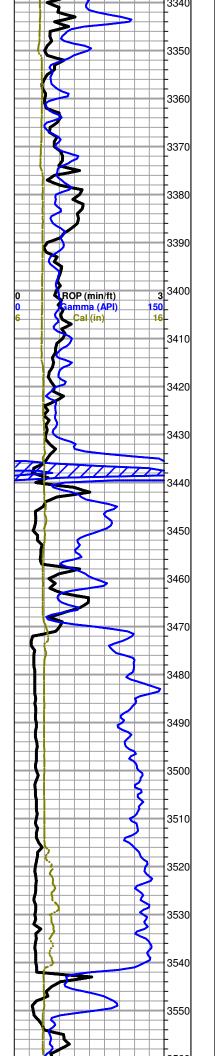
MISC DR Daily Report

### DST DST Int

# **OTHER SYMBOLS**







LS, cream to gray, micro-xln, some slightly fossiliferous, some lithographic, poor visible porosity, some scattered soft and chalky in part, slightly chalky, no show or odor

LS, cream with some scattered gray, micro-xln, mostly lithographic and dense with poor visible porosity, some scattered slightly fossiliferous, slightly chalky, no show or odor

LS as above, no show or odor

C

F

F

C

C

F.

LS, cream with some very scattered light brown, micro-xln, mostly lithographic and dense with poor visible porosity, no show or odor

LS as above, no show or odor

## Heebner 3435 (-1435)

Shale, black carbonaceous

# Toronto 3451 (-1451)

LS, cream, micro-xln, lithographic and dense with poor visible porosity, no show or odor  $% \left( {{\left| {{{\rm{cr}}} \right|} \right|_{\rm{cr}}} \right)$ 

# Douglas Shale 3466 (-1466)

Shale, mostly gray with some scattered red, some soft and waxy, some silty, with some salt and pepper siltstone

Shale as above, silty

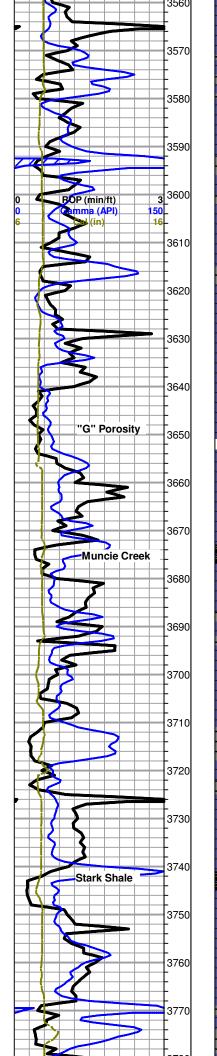
# Brown Lime 3542 (-1542)

LS, brown, micro-xln, fossiliferous and dense with no visible porosity, no show or odor

### Lansing 3554 (-1554)

LS, cream with some very scattered white, micro-xln, lithographic and dense with poor visible porosity, no show or odor





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LS as above, with some very scattered gray, slightly fossiliferous, no show or odor

LS, cream with some scattered white and gray, micro-xln, mostly lithographic and dense with poor visible porosity, some very scattered slightly fossiliferous, no show or odor

LS as above, fairly chalky, no show or odor

LS, cream to white, micro-xln, lithographic and dense with poor visible porosity, chalky, no show or odor  $% \left( {\frac{{{\left( {{{\rm{c}}} \right)}}}{{\left( {{{\rm{c}}} \right)}}}} \right)$ 

LS, cream to white, micro-xln, mostly sub-oomoldic to oomoldic with poor visible oomold porosity, some scattered lithographic and dense with poor visible porosity, very chalky, no show or odor

LS, cream to gray, micro-xln, lithographic and dense with poor visible porosity, some very scattered sub-oomolidic and chalk filled, chalky, no show or odor

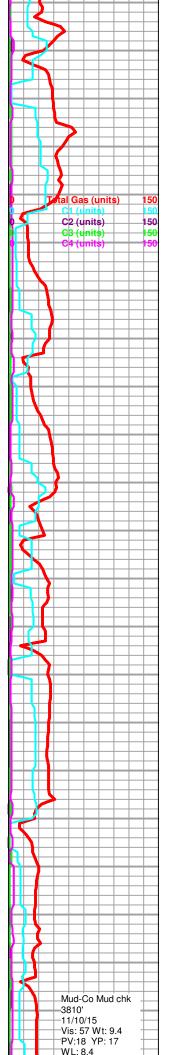
LS, cream to gray with some very scattered light brown, micro-xln, lithographic and dense with poor visible porosity, no show or odor

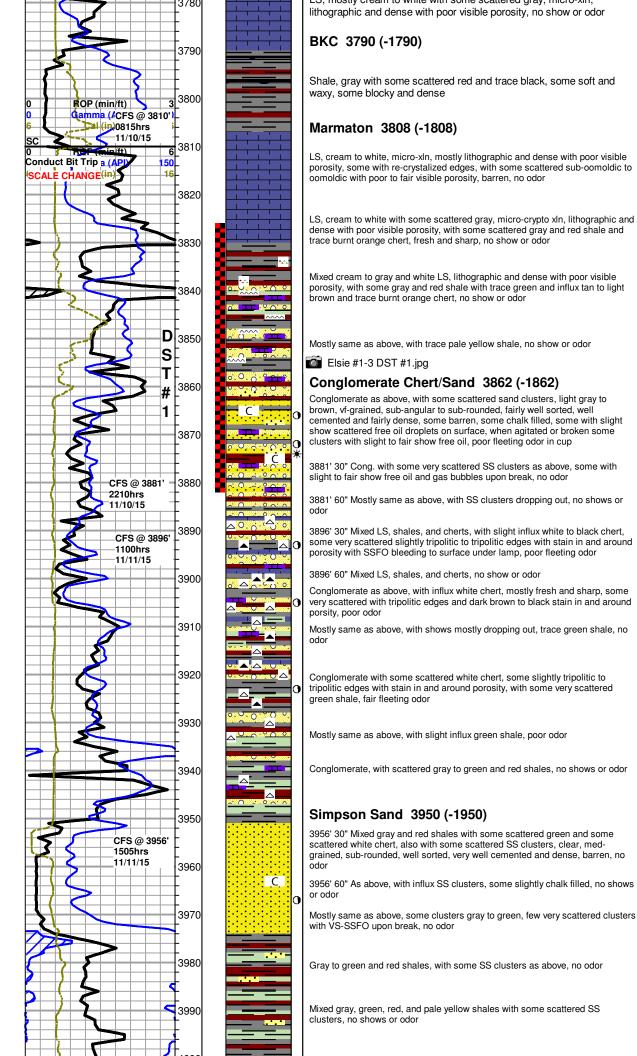
LS as above, slightly chalky, no show or odor

LS, mostly cream with some scattered gray and white, micro-xln, lithographic and dense with poor visible porosity, no show or odor

LS as above, no show or odor

IS mostly cream to white with some scattered gray micro-ylp





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0 / ROP min/ft) 6 4000 -	Mixed Shal	es, with some scattered SS clusters as above, no show or odor	:5	Total Gas (units)	150
				C2 (units)	150
4010 CFS @ 4016' 1910hrs	4016' 30" N sucrosic ar	<b>Ie 4011 (-2011)</b> <i>J</i> ixed shales as above, with some dolomite, cream, micro-xln, sub- nd mostly dense with poor visible porosity, some fairly friable, some sub-rhombic, barren, no odor		C3 (units) C4 (units)	150 150
		Nostly same as above, some very scattered sub-rhombic to rhombic ible porosity, no shows or odor	3		
4030		omite, cream, micro-xln, mostly sub-sucrosic and dense with poor osity, some very scattered sub-rhombic, fairly chalky, no show or	Ş		
	~4030' Dol	omite as above, slightly chalky, no show or odor			
4040		cream, micro-xln, mostly sub-sucrosic and dense with poor visible ome scattered sub-rhombic with fair visible porosity, slightly chalky, odor	}		
4050		s above, no show or odor			
4060	C sucrosic ar	cream with some very scattered light brown, micro-xln, mostly sub- nd dense with poor visible porosity, some very scattered sucrosic, ome very scattered sub-rhombic, mostly poor visible porosity, slightly show or odor	< {		
4070	C Dolomite a	s above, chalky, no show or odor			
4080		cream to light brown, micro-xln, mostly sub-sucrosic and dense with porosity, chalky, no show or odor			
4090		s above, chalky, no show or odor			
4100	poor visible	cream to light brown, micro-xln, mostly sub-sucrosic and dense with porosity, chalky, no show or odor			
4110		s above, with some very scattered sub-rhombic, dense with poor osity, chalky, no show or odor			
4120	Geolo	Rotary TD 4115' @ 0000hrs 11/12/15 Nabors Well Services Logging TD @ 4116' complete Logging Operations @ 0900hrs 11/12/15 gist Jeremy Schwartz off location @ 0930hrs 11/12/15			
4130		· · · · · · · · · · · · · · · · · · ·			

Image: Second State Sta	2015.11.11	3-22S-1 ELSIE Job Ticke Test Star Test Typ Tester: Unit No:	6W PAWNEE UNIT 1-3 et: 01250 t: 2015.11.11 @ e: Conventiona GENE BUDIG 1 :e Elevations: KB to GR/CF:	<b>DST#:</b> 2 01:25:00	le (Initial) ft (KB) ft (CF)
621 17th STREET SUITE 1155         DENVER, COLORODO 80293         ATTN: JERMEU SCHWARTZ         ATTN: JERMEU SCHWARTZ         GENERAL INFORMATION:         Formation:       CONGLOMERATE         Deviated:       No         Whipstock:       ft (KB)         Time Tool Opened:       03:17:00         Time Test Ended:       06:25:00         Interval:       3826.00 ft (KB) To       3881.00 ft (KB) (TVD)         Total Depth:       3881.00 ft (KB) (TVD)         Hole Diameter:       7.88 inchesHole Condition:         Ferss@RunDepth:       95.19 psia       3875.78 ft (KB)		ELSIE Job Ticke Test Star Test Typ Tester: Unit No: Reference	UNIT 1-3 et: 01250 t: 2015.11.11 @ e: Conventiona GENE BUDIG 1 :e Elevations:	DST#: 2 01:25:00	le (Initial) ft (KB) ft (CF)
DENVER, COLORODO 80293 ATTN: JERMEU SCHWARTZ GENERAL INFORMATION: Formation: CONGLOMERATE Deviated: No Whipstock: ft (KB) Time Tool Opened: 03:17:00 Time Test Ended: 06:25:00 Interval: 3826.00 ft (KB) To 3881.00 ft (KB) (TVD) Total Depth: 3881.00 ft (KB) (TVD) Hole Diameter: 7.88 inchesHole Condition: Fair Serial #: 9119 Inside Press@RunDepth: 95.19 psia @ 3875.78 ft (KB)		Job Ticke Test Star Test Typ Tester: Unit No: Referenc	et: 01250 t: 2015.11.11 @ e: Conventiona GENE BUDIG 1 :e Elevations:	2001:25:00	le (Initial) ft (KB) ft (CF)
ATTN: JERMEU SCHWARTZ         GENERAL INFORMATION:         Formation:       CONGLOMERATE         Deviated:       No         Whipstock:       ft (KB)         Time Tool Opened:       03:17:00         Time Test Ended:       06:25:00         Interval:       3826.00 ft (KB) To       3881.00 ft (KB) (TVD)         Total Depth:       3881.00 ft (KB) (TVD)         Hole Diameter:       7.88 inchesHole Condition:         Fress@RunDepth:       95.19 psia       3875.78 ft (KB)		Test Star Test Typ Tester: Unit No: Reference	t: 2015.11.11 @ e: Conventiona GENE BUDIG 1 :e Elevations:	2001:25:00	le (Initial) ft (KB) ft (CF)
GENERAL INFORMATION:         Formation:       CONGLOMERATE         Deviated:       No       Whipstock:       ft (KB)         Time Tool Opened:       03:17:00         Time Test Ended:       06:25:00         Interval:       3826.00 ft (KB) To       3881.00 ft (KB) (TVD)         Total Depth:       3881.00 ft (KB) (TVD)         Hole Diameter:       7.88 inchesHole Condition:       Fair         Serial #:       9119       Inside         Press@RunDepth:       95.19 psia       @       3875.78 ft (KB)		Test Typ Tester: Unit No: Referenc	e: Conventiona GENE BUDIG 1 :e Elevations:	Il Bottom Ho 3 2000.00 1989.00	ft (KB) ft (CF)
Formation:       CONGLOMERATE         Deviated:       No       Whipstock:       ft (KB)         Time Tool Opened:       03:17:00       Time Test Ended:       06:25:00         Interval:       3826.00 ft (KB) To       3881.00 ft (KB) (TVD)         Total Depth:       381.00 ft (KB) (TVD)         Hole Diameter:       7.88 inchesHole Condition:       Fair         Serial #:       9119       Inside         Press@RunDepth:       95.19 psia       3875.78 ft (KB)		Tester: Unit No: Referenc	GENE BUDIG 1 :e Elevations:	2000.00 1989.00	ft (KB) ft (CF)
Deviated:         No         Whipstock:         ft (KB)           Time Tool Opened:         03:17:00		Tester: Unit No: Referenc	GENE BUDIG 1 :e Elevations:	2000.00 1989.00	ft (KB) ft (CF)
Total Depth:       3881.00 ft (KB) (TVD)         Hole Diameter:       7.88 inchesHole Condition: Fair         Serial #: 9119       Inside         Press@RunDepth:       95.19 psia @ 3875.78 ft (KB)				1989.00	ft (CF)
Hole Diameter:       7.88 inchesHole Condition: Fair         Serial #:       9119         Inside         Press@RunDepth:       95.19 psia         @       3875.78 ft (KB)		Capacity:	KB to GR/CF:		
Serial #: 9119 Inside Press@RunDepth: 95.19 psia @ 3875.78 ft (KB)		Capacity:			
Press@RunDepth: 95.19 psia @ 3875.78 ft (KB)		Capacity:			
Start Time: 01:25:00 End Time: TEST COMMENT: 1ST OPENING 15 MINUTES-WEAK SURFACE BLOW 1ST SHUT-IN 30 MINUTES-NO BLOW BACK 2ND OPENING 20 MINUTES-NO BLOW -FLUSHED TO 2ND SHUT-IN NONE TAKEN			2015.11.11 ( 2015.11.11 (		psia
Г					
Pressure vs. Time	Time		SURE SUMM		
229 300 100 100 100 100 100 100 100	(Min.) 0 1 21 50 50 66 70	(psia)(de2001.611055.861059.651095.191059.081064.2110	g F) 8.64 Initial Hydro 8.37 Open To Fl 8.72 Shut-In(1) 9.11 End Shut-Ir 9.10 Open To Fl 9.49 Shut-In(2) 0.41 Final Hydro	o-static low (1) n(1) low (2)	
Recovery			Gas Rates		
Length (ft) Description Volume (bbl)		С	hoke (inches) Pressur	re (psia) G	as Rate (Mcf/d)
15.00         drilling mud         0.21					
Eagle Testers Ref. No: 01250		Pri	nted: 2015.11.11	@ 06:39:28	3