Confidentiality Requested: Yes No

KANSAS CORPORATION COMMISSION **OIL & GAS CONSERVATION DIVISION**

1091395

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

WELL COMPLETION FORM WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License #	API No. 15
Name:	Spot Description:
Address 1:	
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.xxxxx) (e.gxxx.xxxxx) Datum: NAD27 NAD83 WGS84
Wellsite Geologist:	
Purchaser:	County:
Designate Type of Completion:	Lease Name: Well #:
New Well Re-Entry Workover	Field Name:
	Producing Formation:
	Elevation: Ground: Kelly Bushing:
Gas D&A ENHR SIGW	Total Vertical Depth: Plug Back Total Depth:
GG GSW Temp. Abd.	Amount of Surface Pipe Set and Cemented at: Feet
Coal Bed Methane)	Multiple Stage Cementing Collar Used? Yes No
Cathodic Other (Core, Expl., etc.):	
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 ENHR Conv. to SWD	Drilling Fluid Management Plan
Plug Back Conv. to GSW Conv. to Producer	(Data must be collected from the Reserve Pit)
Commingled Permit #:	Chloride content: ppm Fluid volume: bbls
Dual Completion Permit #:	Dewatering method used:
SWD Permit #:	Location of fluid disposal if hauled offsite:
ENHR Permit #:	
GSW Permit #:	Operator Name:
	Lease Name: License #:
Spud Date or Date Reached TD Completion Date or	QuarterSecTwpS. R East West
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					
Geologist Report Received					
UIC Distribution					
ALT I II III Approved by: Date:					

	Page Iwo	1091395
Operator Name:	Lease Name:	Well #:
Sec TwpS. R East _ West	County:	

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 She	eets)	Yes No		-	on (Top), Depth ar		Sample
Samples Sent to Geolog	ical Survey	Yes No	Name	1		Тор	Datum
Cores Taken Electric Log Run		Yes No					
List All E. Logs Run:							
	CASING RECORD New Used Report all strings set-conductor, surface, intermediate, production, etc.						
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
		ADDITIONAL	CEMENTING / SQUI	EEZE RECORD			

Purpose: Perforate	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
Protect Casing Plug Back TD				
Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well?	Yes
Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?	Yes
Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?	Yes

Yes	No
Yes	No
Yes	No

(If No, skip questions 2 and 3) (If No, skip question 3)

(If No, fill out Page Three of the ACO-1)

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated			Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)			Depth			
TUBING RECORD:	Siz	ze:	Set At:		Packer	At:	Liner R	Run:	No	
Date of First, Resumed	l Producti	ion, SWD or ENHF	ł.	Producing M	ethod:	oing	Gas Lift	Other (Explain)		
Estimated Production Per 24 Hours		Oil Bb	S.	Gas	Mcf	Wate	er	Bbls.	Gas-Oil Ratio	Gravity
DISPOSITI	DISPOSITION OF GAS: METHOD OF COMPLE		TION:		PRODUCTION INTER	RVAL:				
Vented Solo	d 🗌 l	Used on Lease	(Open Hole	Perf.	Dually		Commingled		
(If vented, Su	ıbmit ACO	D-18.)		Other (Specify)		(Submit /	,	(Submit ACO-4)		

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Mariah 3120 2-36H
Doc ID	1091395

All Electric Logs Run

Final Boresight Depiction
ML 5in MD Final
CML Messenger Shuttle Compact Photo Density Compensated Neutron Log
CML Messenger Shuttle Array Induction Shallow FOC Electric Log

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Mariah 3120 2-36H
Doc ID	1091395

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
5	9394-9670	4261 bbls water, 36 bbls acid, 76M lbs sd, 4297 TLTR	
5	8960-9304	4273 bbls water, 36 bbls acid, 76M lbs sd, 8971 TLTR	
5	8490-8802	4207 bbls of water, 36 bbls acid, 75M lbs sd, 18427 TLTR	
5	8079-8416	4391 bbls of wtaer, 15 bbls acid, 75M lbs sand, 22955 TLTR	
5	7661-7982	4466 bbls of water, 15 bbls acid, 75M lbs sand, 27582 TLTR	
5	7210-7552	4437 bbls of water, 15 bbls acid, 75M lbs sand, 32777 TLTR	
5	6845-7137	4375 bbls of water, 0 bbls acid, 75M lbs sand, 36850 TLTR	

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Mariah 3120 2-36H
Doc ID	1091395

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Conductor	32	20	75	105	4500 PSI concrete	11	none
Surface	12.25	9.63	36	965	O-Tex Lite Premium Plus 65, Premium Plus (Class C)	700	(6% Gel) 2% Calcium Chloride, 1/4 pps Cello- Flake, .5% C-41P
Intermedia te	8.75	7	26	5539	50/50 Poz Premium/ Premium	210	4% Gel, .4% C-12, .1% C-37, .5% C-41P 2 lb/sk Phenoseal
Production Liner	6.12	4.5	11.6	9829	50/50 Poz Premium	500	4% Gel, .4% C12, .1% C37, .5% C- 41P, 1 lb/sk Phenoseal



Phone: 316-337-6200 Fax: 316-337-6211 http://kcc.ks.gov/

Mark Sievers, Chairman Thomas E. Wright, Commissioner Sam Brownback, Governor

August 22, 2012

Tiffany Golay SandRidge Exploration and Production LLC 123 ROBERT S. KERR AVE OKLAHOMA CITY, OK 73102-6406

Re: ACO1 API 15-033-21644-01-00 Mariah 3120 2-36H SW/4 Sec.25-31S-20W Comanche County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully, Tiffany Golay



Conductor, Rat and Mouse Hole Drilling Services

Ticket

Company:		Date: 7/21	/2012
Sandridge			
Dall Dia			·
Drill Rig: Unit 9	Location: Commanche County	Lease Name: Mariah #3120 2-	36H DC122233
120' of 30" Drilled Conductor P	ipe(.250 wall) 82ppf	AFE Number: DC	
6'x6' Celiar Tinhorn W/P	Protective Ring	Well Name: Mac	16b 3120 6-200
Drill & Install cellar 80' of 20" Drilled Moush		Code: 850.01	0
80' of 16" Moushole Pip		Amount: 28, 481 Co. Man: Dwgy	ne Burt
Mobilization of Equipme			
Welding Services for Pip	e & Lids	Notes:	
Provided Equipment & L			
Provided Personal to Fac	•		
Provide Metal for Lids(1			
11 Yards of 4500PSI cond	crete Pourea down the	Dack side of Londucto	и ыре
		•	
Comments:)			
Thank You For Your Business			Total \$28,680.00
If a caving formation and (or) wa	ater is found addition fee(s) y	rill be add to cover the cost	
of tank trucks, vacuum trucks, a conditions, if rock is present the	nd cement pump trucks. Price n there will be a surcharge	s figured on non-rocky soil	
and a second state of the second state	and a set of the set o	,	
	• • • • • • • • • • • • • • • • • • •	9	

** &

COUNTY	Stá		JOB	SUM	MAR	Y					(1707		TICKET DATE	07/30/12	
COMANC		ANSA	S pridg	e Explo			oduc			CUSTOMER REP DV	VAYNE	BU	RT		
LEASE NAME MARI	AH I	Weil 120 2-	No. JOB TYPE 361	Surfa	се					EMPLOYEE NAM		AR	NEY		
LOUIS ARNEY	7		Ō			T	1								
JASON JONE						+-	1				and the second				
CHERYL NEV	and the second se					-									
TRAY WOTKI	NS .														
Form. Name		I ¥p	e:			ICa	alled (Dut		On Locatio	n	Joh	Started	Liph Cr	mpleted
Packer Type		Set	/	0	Date			0/2012		7/30/2			7/30/2012	7/:	30/2012
Bottom Hole T Retainer Dept			ssure	1000	Time		5:0	0		40.20			44.47		
Retainer Dept	Tools and A	Accesso	ories		Time	_	5.0	0		10:30 Well D			14:47	1	6:03
Туре а	nd Size	Qty	Mal					New/Use	d	Weight	Size Gr	rade	From	То	Max. Allow
Auto Fill Tube Insert Float Va		0	IR IR		Casing	9			-	36#	9 5/8"		Surface		1,500
Centralizers		0	IR		Liner				\neg			-+			
Top Plug		0	IR		Tubing	1 F					0	-			
HEAD		0	IR		Drill P										
Limit clamp Weld-A		0	IR IR		Open Perfor						12 1/4	h	Surface	1,000	Shots/Ft.
Texas Pattern	Guide Shoe	0	İR		Perfor				-			-+			
Cement Baske		0	IR		Perfor										
Mud Type	Materia WBM	Density	9	Lb/Gal	Hours			ours	Г	Operating Date	Hours Hours	- 1		tion of Job	
Disp. Fluid	Fresh Water	Density	8.33	Lb/Gal	7/3			5.5	t	7/30	1.4		Surface	•	
Spacer type Spacer type	resh Wate BBL BBL)	8.33			-		ļ						
Acid Type	Gal.		- % -						\mathbf{F}			-			
Acid Type	Gal.		%						t						
Surfactant NE Agent	Gal. Gal.		In						ŀ						
Fluid Loss	Gal/		in						ŀ						
Gelling Agent		Lb	In												
Fric. Red. MISC.	Gal/	Lb	In		L Total		-	5.5	Ļ	Total	1.4				
					10(0)		<u> </u>			TUIAI	1.4				
Perfpac Balls		Qty.						0.001			ssures				
Other Other					MAX		1,50	0 PSI		AVG. Average	10 Pates in		A		
Other					MAX		61	BPM			vales in		/1		
Other											Left in F				
Other					Feet		4/	.74'		Reason	SHOE .	JOIN	T		
					C	eme	ent Da	ata							
Stage Sacks	Ceme	nt			Additive	95							W/Rg	. Yield	Lbs/Gal
1 440 2 160	FEX Lite Premiu Premium Plus	Im Plus	65 (6% Ge) 2% Cal	cium Chlor	ride	- 1/4p	ps Cello	-Fla	ake5% C	-41P		10.88		12.70
3 100	Premium Plus	(Class	C) 2% Cal	cium Chlo	oride on si	de t	o use	if neces	sar	v			6.32	1.32	14.80 14.80
		•						in neoco.	Juli	1			0.02	1.52	14.00
					_	_									
Preflush		Туре			Su	mma	arv Prefl	uch			10.1	00		F	
Breakdown		MAX	IMUM		1,500 PSI					BBI Gal - BBI	10.0 N//		Type: Pad:Bbl		Water N/A
		Lost	Returns-N		NO/FULL		Exce	ss /Retu			33	3	Calc.Dis	sp Bbl	71
Average			al TOC p Plug PS	:	800			. TOC: Circ,	1	PSI:	SURF 20		Actual Disp:Bb		70.00
ISIP5 N	Ain	10 N		15 M			Cem	ent Slurr	ν:	BBI	182	2.0		·	
		<u> </u>					Iotal	Volume		BBI	262.	.00			
		L					1)			7				
CUSTOM	IER REPRES	ENTA	TIVE			K	1	1)01	N	SIGNATURE	ist	-			
								- ag	1	SIGNATURE	and the				
										-					

IOB	SUMMARY	1	PROJECT NOMBER		CKET DATE	08/15/12	
COUNTY State COMP	YNA		CUSTOMER REP				
Comanche Kansas Sand LEASE NAME Well No. JOB TY	dridge Exploration & Prod	duction	Dway EMPLOYEE NAME	ne Buri			
Mariah 1120 2-36	Intermediate			Kirchne	r Jr.		
EMPNAME	Т			1 1			
John Hall							
Wallace Berry							
Vontray Watkins							
Form. Name Type;							
Packer Type Set At	4,312 Date	Called Out 8/15/2012	On Location 8/15/2012		itarted /15/2012		0mpleted 15/2012
Bottom Hole Temp. 155 Pressure			0/10/2012		10/20 (25	"	10/2012
Retainer Depth Total Depth	5557 Time	7:00AM	11:30AM		12:17PM	1	:30PM
Tools and Accessories Type and Size Qty M	/ake	New/Used	Well Data Weight Size	Grade	Erom I	Ta	These Allers
	IR Casing	New	26# 7"		From Surface	To 5,539'	Max. Allow 5,000
Insert Float Val 0	IR Liner						
	IR Liner						
	IR Tubing IR Drill Pipe	<u> </u>	0				
Limit clamp 0	IR Open Ho		8	3/4"	Surface	5,539'	Shots/Ft.
	IR Perforati	ions					
	IR Perforati IR Perforati						
Materials	Hours O	In Location	Operating Hours	<u>.</u>	Descript	ion of Job	L
Mud Type WBM Density 9 Disp. Fluid Fresh Water Density 8.33	Lb/GalDate	Hours	Date He	ours	Intermed		
Spacer type resh Wate BBL. 20	Lb/Gal 8/15 8.33	2.0	8/15	2.0			
Spacer type Caustic BBL. 10	8.40						
Acid TypeGal% _ Acid TypeGal. % _							
Acid TypeGal% _ SurfactantGalIn							
NE Agent Gal In					P-02		
Fluid Loss Gal/Lb In _							
Gelling Agent Gal/Lb In Fric. Red Gal/Lb In _							
MISCGal/Lb In _	Total	2.0	Total 2	2.0			
Perfpac BallsQtyQty	MAX	5,000 PSI	Pressur AVG.	es 300			
Other		0,000 1 31	Average Rates				
Other	MAX	8 BPM	AVG	5			
Other		88	Cement Left				
	Feet	00	Reason SHC	E JOINT			
	Cer	ment Data					
Stage Sacks Cement	Additives	i			W/Rq.	Yield	Lbs/Gal
	Gel - 0.4% C-12 - 0.1% C- C-12 - 0.1% C-37	-37 - 0.5% C-41P - 1	2 Ib/sk Phenosea	1	6.77	1.44	13.60
3 0 0	9-12-0.176 0-07				5.20	1.18	15.60
					0.00	0.00	0.00
Preflush 10 Type:	Sumi Caustic	mary Preflush:		30.00	True	MITION	TED OF
Breakdown MAXIMUM	5.000 PSI	Load & Bkdn:		30.00 N/A	_Type: _Pad:Bbl ·		TED SP.
Lost Returns	s-N NO/FULL	Excess /Return	BBI	N/A	Calc.Dis	p Bbl	208
Average Averag		Calc. TOC: Final Circ.	PSI:	4,229 550	Actual D Disp:Bbl	sp.	208.00
Isip5 Min10 Min	15 Min	Cement Slurry:	BBI	49.0			
		Total Volume	BBI 2	287.00			
l	\sim						
CUSTOMER REPRESENTATIVE _	_ Duray	no Bui	1				
		The exact	SIGNATURE				
		/					

		JOB SUN	MAR	Y			1795		TICKET DATE	08/21/12	
Comanche	Kansas				duc	CUSTOMER REF)wayne	Bu	Int		
Lease Name Mariah	120 2-	O. JOB TYPE				EMPLOYEE NAM					
EMP NAME							FVILLES 0	1110			
Matt Wilson		Frank Reeves									
Jared Green David Thomas				+							
Emmit Brock				+						and the second se	
Form. Name		e:				and the second					
				Cal	ed Out	On Locatio	n	Job	Started	Job Co	mplete
Packer Type	Set	At0	Date		8/21/2012	8/22/2	012	1	8/22/2012		22/2012
Bottom Hole Temp.	150 Pres	I Depth 9904	Time		6:00 pm	12:00	000		CIAE and		
	Ind Accesso	in Dopini		-	5.00 pm	Well [I	6:15 am	1 10):00 ar
Type and Size	Qty	Make			New/Used		Size G	rade	From	То	Max. A
Auto Fill Tube	0	Weatherford				11.6	4 1/2		5,233'	9,543'	3,5
Insert Float Val	0		Liner					_	5,215'	5,233'	3,5
Centralizers			HWD Drill P				3 1/2"	-	3,836.33' Surface	5,215' 3,836,33'	3,5
HEAD	0		Drill C				0 112	-+	Surrace	3,030.33	3,5
Limit clamp	0		Open				6 1/8	-	Surface	9,904	Shot
Weld-A	0		Perfor								
Texas Pattern Guide Sho	e 0 0		Perfor								
Cement Basket Ma	aterials		Perfor Hours		ocation	Operating	Houre		Donorin	otion of Job	
Mud Type WBM	Density	9.1 Lb/Ga	1 Dat	e	Hours	Date	I Hour	ŝ		MOL OL JOD	
	er Density		8/2	2	10.0	8/22	4.0		Liner		
Spacer type Spacer type Caustic	BBL. 20	8.33	┥╞━━━					_	-		
Acid Type	Gal	8.33 8.40						_	-		
Acid I vpe	Gal.	%						-			
Surfactant	Gal.	In							-		
NE Agent	Gal. Gal/Lb		-					_			
Gelling Agent	Gal/Lb			-+				_			
Gelling Agent	Gal/Lb	in	1	-+							
MISC.	Gal/Lb	In	Total		10.0	Total	4.0				
Perfpac Balls											
Other	Qty.		МАХ		3,500 PSI		essures	10			
Julei			-		0,000101	Average	Rates In	BPA	A		
Juner			MAX		6 BPM	AVG	6	3			
		and the second				Cement					
Other			Feet		94	Reason	SHOE .	JOIN	IT		
			~		t Data						
Stage Sacks Co	ement	1	Additiv	emer	nt Data				1 14/17	1 Martel	
1 500 50/50 Pr	emium Poz				5% C-41P - 1 Lt	Sk Phenos	seal		6.77		Lbs/
2 0	0								0 0.00		0.0
3 0	0								0 0.00		0.0
			C								
Preflush 10-	Type	:	Caustic	mmar	v Preflush:	вві І	20.	00	Type:	8.59#SI	PACE
Breakdown	MAX	IMUM	3,500 PSI		oad & Bkdn:	Gal - BBI	N/	A	Pad:Bbl		· NA
		Returns-N	NO/FULL		Excess /Return	BBI	N/.		Calc.Dis	sp Bbl	118
verage		al TOC	4,697'		Calc. TOC: Final Circ.	PSI:	4,69		Actual Disp:Bb		118.00
5 Min			Min		Cement Slurry:	BBI	128	3,0		·····	
				1	Total Volume	BBI	266	.00			
		-									
		~		1	~ ~						
				11	1						
CUSTOMER REPR	RESENTAT		apele	2	ert	SIGNATURE					

			OB SUM	MAR	V			PROJECT NOMBE	R 1716	1	TICKET DATE	08/03/12	,
COUNTY	State		COMPANY					CUSTOMER REP				00/00/12	
Comanch LEASE NAME	ie Ka	nsas	JOB TYPE	dridge				EMPLOYEE NAME	0				
Maria	ah 112	20 2-36	Misc Pum	iping				La	rry Ki	chr	ner Jr.		
EMP NAME		10								;			
Larry Kirchne	r Jr.	0											
John Hall	- las	++											
Robert Stonel Wallace Berry		╉╼┼╾	Contraction of the second s			-		and the second secon		\square			
		Time	N. 1994 (1997)					- to of the tax of tax o					
Form. Name					Cal	lled C	Tut	IOn Locatio	n	Llob	Started	Lioh C	ompleted
Packer Type		Set At		Date			2/2012	8/3/20		000	8/3/2012		/3/2012
Bottom Hole T		Press		Time		4.5	10008	40.00					
Retainer Dept	n Tools and Ac	_Total I		Time		4:0	DOPM	12:00 Well D		I	1:05AM	2	:45AM
Type a		Qty	Make			ſ	New/Used	Weight		rade	From	То	Max, Allow
Auto Fill Tube		0	IR	Casing		T					110.11		THER. FUIDIT
Insert Float Va		0	IR	Liner									
Centralizers		0	IR	Liner		-+							
Top Plug HEAD		0	IR IR	Tubing		\rightarrow	Used		0		Curtons	0 450	0.000
Limit clamp		8-1-	IR	Drill Pip Open H			Useu	L			Surface Surface	3,456 3,100	3,000
Weld-A		0	IR	Perfora							Surface	3,100	Shots/Ft.
Texas Pattern		0	IR	Perfora	tion	s							
Cement Baske	And in case of the local division of the loc	0	IR	Perfora					İ				1
Mud Type	Materials WBM De	nsity	9 Lb/Gall	Hours O	2n L		ours	Operating Date	Hours Hou	-		otion of Job)
Disp. Fluid	Fresh Water De	nsity	8.33 Lb/Gal	8/3			2.8	8/3	2.0		Misc Pu	Imping	
Spacer type	mud wash BBL.	20	8.40										
Spacer type	H2O BBL.	10	8.33										
Acid Type Acid Type	Gal. Gal.		_%		-								
Surfactant	Gal.		- [%]		-								
NE Agent	Cal		_In										
Fluid Loss	Gal/Lb		_In										
Gelling Agent Fric. Red.	Gal/Lb Gal/Lb		_In		_	<u> </u>							
MISC.	Gal/Lb		_in	Total	-		2.8	Total	2.0	-			
				rotar			<u></u>		A.v				
Perfpac Balls		Qty.							ssures				
Other				MAX		5,00	DO PSI	AVG.		00	1		
Other				MAX		81	врм	Average I AVG	Rates In		VI		
Other				10/3A				Cement					
Other				Feet			0	Reason					
Stage Sacks	T Consent					nt Da	ata						
Stage Sacks	Cement Premium "H" (Thi	votronic	10 % Gynsum +	Additive	S al +	1 /A±	Hele Colloff:	ate + Offer	Dhonoe		W/Ro		Lbs/Gal
2	Treman in the	Konopie	10 / Oypsum	* /0 TOtal -	ei .	1/-071	ASK Genone	ake T Zmon	Prienos	ear	7.64	1.61	14.40
3 0	0										0 0.00	0.00	0.00
	1												
Preflush	10	Type:	0	Sun austic			luch	0.01	20	0.0			
Breakdown		MAXIN		5,000 PSI			lush: 1 & Bkdn:	BBI Gal - BBI		.00 A	Type: Pad:Bb	Gal	N/A
		Lost R	eturns-N	NO/FULL		Exce	ess /Return		N		Calc.Di		30
Average		Actual	Plug PSI:				. TOC:	DOL	N		Actual [29.50
	din.	10 Min		lin			I Circ. nent Slurry:	PSI:		00	Disp:Bb	DI	
							I Volume	BBI	135				
					\geq		1						
			/	X		1							
CUSTON	AER REPRESE	NTATI	VE	em	-0	Ja	was	010111	Automatica and a second				
					_		1	SIGNATURE					

	10			/		PROJECT NOME		Inc	CKET DATE	00/02/42	
COUNTY	State	DB SUM	MAR	r		CUSTOMER REP	1720			08/03/12	
Comanche	Kansas	Sand	Iridge				ton Sav	age			
LEASE NAME Mariah	Well No. 1120 2-361	Misc Pum	ping				rry Kirc	hne	er Jr.		
EMP NAME											
Larry Kirchner Jr.	0			_				_			
John Hall											
James Derry											
Wallace Berry											
Form, Name	Type:			Calle	d Out	On Locatio	n I.	loh S	Started	Llob Co	mpleted
Packer Type	Set At		Date	J	8/3/2012	8/3/20			8/3/2012		3/2012
	Pressu		Time		1:00PM	6:00F	N/		7:45PM	0.	45PM
Retainer Depth	Total D s and Accessories	eptn	Time		TUUPIN	Well [1.40 - 101	1 0.	431-111
Type and Size	Qty	Make			New/Used	Weight		de	From	To	Max, Allow
Auto Fill Tube	0	IR	Casing		1		1		1 Iom		
Insert Float Val	0	IR	Liner						1		
Centralizers	0	IR	Liner								
Top Plug	0	IR	Tubing				0				
HEAD	0	IR	Drill Pir		Used				Surface	3,456	3,000
Limit clamp	0	IR	Open H					-	Surface	3,100	Shots/Ft.
Weld-A	0	IR	Perfora								
Texas Pattern Guide S	hoe 0	IR IR	Perfora Perfora		and the same						
Cement Basket	Materials		Hours		cation	Operating	Hours		Descrip	tion of Job	L
Mud Type WB	M Density	9 Lb/Gall	Date		Hours	Date	Hours		Misc Pu		
Disn Fluid Fresh V	Nater Density	B.33 Lb/Gal	8/3		2.8	8/3	2.0		MISC PU	mping	
Spacer type mud wa	shBBL. 20	8.40									
Spacer type H2O	BBL10	8.33		_				_			
Acid Type	Gal	%				 		-			
Acid Type Surfactant	Gal Gal	In		-+				-	the second second second second second second second second second second second second second second second se		
NE Agent	Gal.	In					1				
Fluid Loss	Gal/Lb	In									
Gelling Agent	Gal/Lb	In									
Fric. Red.	Gal/Lb	In		_		L	0.0		-		
MISC.	Gal/Lb	In	Total		2.8	Total	2.0				
Perfpac Balls	Otv					Pr	essures				
Other	Gitt.		MAX	1	5,000 PSI	AVG.		0			
Other							Rates in				
Other			MAX		8 BPM		6				
Other	Attempter		_				t Left in F				
Other			Feet		0	Reason	LCM PI	ug		-	
			0		t Data						
Stage Sacks	Cement		Additive		l Dala			- contract	W/Ro	I. Yield	Lbs/Gal
1 400 Premiun	n "H" (Thixotropic	10 % Gypsum +	4 % Total C	el +	1/4#/sk Cellof	lake + 2#/sk	Phenose	al	7.64		14.40
2											
3 0	0								0 0.00	0.00	0.00
<u> </u>											1
Preflush	10 Type:	(Sul Caustic	nmar F	v Preflush:	BBI	0.0	0	Type:		
Breakdown	MAXIM		5,000 PSI	L	oad & Bkdn:	Gal - BBI	NV/	A	Pad:Bb		N/A
	Lost Re	eturns-N	NO/FULL		xcess /Retur	n BBI	N/		Calc.Di	sp Bbl	30
I	Actual				Calc. TOC:	PSI:	<u>N/</u> 40		Actual Disp:Bl		29.50
Average	Bump I	Plug PSI: 15 M	Ain		Final Circ. Cement Slurn		115				
	101////1				Total Volume	BBI	144.				
					17	1					
				/							
CUSTOMER RE	PRESENTATI	/E	(GAIST	utap					
		~	1	/	and the	SIGNATURI					

.

	ال	OB SUM	MAR	1			K1723	Γ	ICKETDATE	08/04/12	
Comanche	Kansas					CUSTOMER RE					
EASE NAME		JOB TYPE	dridge			EMPLOYEE NAM	Ron Sav	/age	•		
Mariah	1120 2-36	Misc Pun	nping				arry Kir	chne	er Jr.		
Larry Kirchner Jr.	1 10			T	244 August 1997		T				
John Hall								-+-			
James Derry								-+			
Nallace Berry											
Form. Name	Type:										
	0.11			Calleo		On Locatio			Started		mpleted
Packer Type Bottom Hole Temp,	Set At Press		Date	8	8/4/2012	8/4/2	012	1	8/4/2012	8/	4/2012
Retainer Depth	Total [Time	6	5:00AM	12:00	MM		1:04PM	2.	OOPM
Tools and	Accessorie		Line			Well I			1.0-91-101	2	OUPW
Type and Size	Qty	Make			New/Used	Weight		ade	From	То	Max. Allow
Auto Fill Tube	0	IR	Casing								
nsert Float Val	0	IR IP	Liner					_			
Cop Plug	0	IR IR	Liner				0				
HEAD	0	IR IR	Drill Pin	e	Used			+	Surface	3,456	3,000
imit clamp	0	İR	Open H				1		Surface	3,100	Shots/Ft
Weld-A	0	IR	Perfora	lions				-			Griots/ rt.
Texas Pattern Guide Shoe Cement Basket	0	IR	Perfora								
	erials	IR	Perfora Hours (nation	Onoralin	Haute		Darri	Man of Lat	
Aud Type WBM	Density	9 Lb/Gal	Date		Hours	Operating Date	Hours Hours			tion of Job	
Disp. Fluid Fresh Water	Density	8.33 Lb/Gal	8/4		2.0	8/4	2.0	-	Misc Pu	mping	
Spacer type mud wash BE		8.40							And a second sec		
	3L. <u>10</u> al.	8.33		_							
	al	- %						-			
SurfactantGa		ln						-	-		
IE Agent Ga		ln							e		
	al/Lb	_In									
	al/Lb	- <u>In</u>							-		
	al/Lb al/Lb	_ln	Total		2.0	Total	2,0	_			
		- ***	rolar	L	2.0	TOLA	2.0				
Perfpac Balls	Qty.					Pr	essures				
Other			MAX	5,	000 PSI	AVG.	40				
Other			LAN		0.0014		Rates in				
other			MAX		8 BPM	AVG	6 t Left in P				
Other			Feet		0	Reason					
			1.001		•	Redson	LOWIT	uy			
			Ce	ment	Data						
Stage Sacks Cen	nent		Additives						W/Rg	Yield	Lbs/Gal
1 400 Premium "H"	(Thixotropic	10 % Gypsum + 4	4 % Total G	el + 1/4	4#/sk Cellofia	ke + 2#/sk	Phenose	al	7.64	1.61	14.40
2 3 0 0											
<u> </u>									0 0.00	0.00	0.00
										_	
		L	Cum	man							
reflush 10	Type:	С	austic	mary	eflush:	BBI	0.0	0	Type:		
reakdown	MAXIM	IUM	5,000 PSI		ad & Bkdn:	Gal - BBI	N//		Pad:Bbl	-Gal	N/A
	Lost Re	eturns-N	NO/FULL	Ex	cess /Return	BBI	N//	1	Calc.Dis	p Bbl	30
	Actual Bump	TOC Plug PSI:			Ic. TOC:	Del	N//		Actual D	lisp.	29.50
Verage	10 Min		in		nal Circ. ment Slurry:	PSI: BBI	800		Disp:Bb		
verage5 Min					tal Volume	BBI	144.				
						1					
^{IP} 5 Min	I			/	21	(
	SENTATI	/E	/	3	Tach	vas					

			ال	OB SUM	MAR	Y			SOM	1730	Inc	KET DATE	08/06/12	
COUNTY	manch	e Ka	ansas	COMPANY	dridge				CUSTOMER REP	Ron Sa	vage			
LEASE NA		ah 11	Well No. 20 2-36	JOB TYPE				1	EMPLOYEENAM	e arry Kir	chnei	r Jr.		
EMP NAM	and the second se								- Announce of the second					
Larry I	Kirchner	Jr.	1 10			T	1		10-00-50 and 10-00			and the Constitution of the provide		
John H	lall			and the second second second second second second second second second second second second second second second		-	-							
Rober	Stoneh	ocker				1-	1							
Wallac	e Berry					1	-							
Form	Name		Type.							and the second second				
	Туре			0	Data	Ca		Out 5/2012	On Locatio		Job SI			ompleted
Botton	Hole T	emp.	Press		Date		0/1	0/2012	6/0/20	/12	0	/6/2012	8	/6/2012
Retain	er Depti	1	Total I		Time		9:	00PM	4:004	M	6	:28AM	8	:00AM
		Tools and Ad			1.000				Well D			1207 1111		
	Type at	nd Size	Qty	Make				New/Used	Weight		rade	From	То	Max. Allow
	ill Tube		0	IR	Casing	1								
Insert	Float Va	1	0	IR	Liner									
Centra			0	IR	Liner									
Top Pl			0	IR	Tubing					0				
HEAD			0	IR	Drill Pi			Used				Surface		3,000
Limit c			0	IR	Open						S	Surface	3,100	Shots/Ft.
Weld-			0	IR	Perfor									
Texas	Pattern	Guide Shoe	0		Perfor									
Cemer	t Baske			IR	Perfor				0 1					
Mud T	ino	Material WBM D	ensity	9 Lb/Gal	Hours		.002	ation 1	Operating		_	Descrip	tion of Job	
Disp. F	hiul	Fresh Water D		8.33 Lb/Gal	Dat 8/6		┝─└	Hours	Date 8/6	Hour 2.0	<u>s</u>	Misc Pu	Imping	
Space		mud wash BBL.		8.40	- 0/0		-	4.0	0/0	2.0	_			
Space		H2O BBL.	10	0.00										
Acid T	vpe	Gal.		% 8.33							-			
Acid T	vpe	Gal.		%										
Surfac		Gal.		_in										
NE Ag		Gal.	b	_In										
Fluid L		Gal/Li	b	_in										
Gelling	Agent	Gai/Li	0	_in										
Fric. R MISC.			b	In	Talal			10	L_	0.0		-		
		Gal/LI		_In	Total			4.0	Total	2.0				
Perfna	c Balls		Otv						Dre	essures				
Other	o Dano		_ carry.		MAX		5.0	00 PSI	AVG.		0			
Other					No.		0,0		Average	Rates in	RPM			
Other					MAX		8	BPM	AVG	E				
Other										Left in F	Pipe			
Other					Feet			0	Reason	LCM P	lug			
							nt D	Data						
	Sacks	Cemen	t		Additive	BS						W/Rq		Lbs/Gal
1	400	Premium "H" (Th	ixotropic	10 % Gypsum +	4 % Total	Gel +	· 1/4	#/sk Cellof	lake + 2#/sk	Phenose	eal	7.64	1.61	14.40
2							_							
3	0	0									0	0.00	0.00	0.00
					-									
Drafter	L	40	Trues		Su	mma	inv	a			~	7		
Preflus		10	Type:		austic			flush:	BBI	0.0		Type:	0.1	- NU -
Breakd	own	Louis and the second second second second second second second second second second second second second second		eturns-N	5,000 PSI NO/FULL			d & Bkdn: ess /Retur		N/		Pad:Bbl		N/A
			Actual		NON ULL			c. TOC:		N/		Calc.Dis Actual	lien I	33 32,50
Averag				Plug PSI:				al Circ.	PSI:	40		Disp:Bb		32,00
ISIP		1in	10 Min		lin		Cen	ment Slurry	: BBI	111	5,0	1		
							Tota	al Volume	BBI	147				
						-7		,						
					1	/		1						
CL	ISTOM	ER REPRESE	NTATI	VE (X	m	N	avag	e .					1
									SIGNATURE					

	State	DB SUMI	MAR	Y		SOK CUSTOMER REP	1746		08/10/12	
County	Kansas	COMPANY Sand				CUSTOMER REP	0			
EASENAME						EMPLOYEE NAM				
Mariah	1120 2-36	Misc Pum	ping				Ionnny B	reeze	*****	
EMP NAME Johnny Breeze	1 10			T				T		1
Scott Woods				\vdash	nande de la company de la	Constant Constant Street				
Flo Helkena										
David Settlemier										
Form. Name	Туре: _			Call	ed Out	On Locatio	n Llo	b Started	Liph Co	mpleted
Packer Type	Set At		Date	Call	8/9/2012	8/10/2		8/10/2012		0/2012
Bottom Hole Temp.	Pressur	e								
Retainer Depth	Total De		Time	<u> </u>	2000	0400 Well 0	Vote	0553	0/	/30
	ols and Accessories	Make			New/Used		Size Grade	From	То	Max. Allow
Type and Size Auto Fill Tube	e Qty 0	IR	Casing	1		e e cigin				
Insert Float Val	0	IR	Liner							
Centralizers	0	IR	Liner				0			
Top Plug	0	IR	Tubing Drill Pi		_		4	surface	4,650	3,000
HEAD Limit clamp		IR	Open					Surface	5,000	Shots/Ft
Weld-A	0	IR	Perfor	ations						
Texas Pattern Guide	Shoe 0	IR	Perfor							
Cement Basket	0 Materials	R	Perfor		ocation	Operating	Hours	Descrip	tion of Job	
Mud Type V	VBM Density	9 Lb/Gal	Dat	e	Hours	Date	Hours	Misc Pu		
Dien Fluid Fres	h Water Density	B.33 Lb/Gal	8/1	0	4.0	8/10	4.0			
Spacer type mud v	wash BBL. 20 O BBL. 10	8.40		-+						
Spacer type <u>H2</u> Acid Type	Gal	%								
Acid Type	Gal.	%								
Surfactant	Gal Gal	In					1	-		
Fluid Loss	Gal/Lb	In I								
Gelling Agent	Gal/Lb	In I								
Fric. Red MISC.	Gal/LD	In	Total		4.0	Total	4.0	1		
			, 0141							
Perfpac Balls	Qty.				2000	Pr AVG.	essures 650			
Other	and the second second second second second second second second second second second second second second second		MAX		3000 psi	Average	Rates in B	PM		
Other Other			MAX		8 BPM	AVG	6.5			
Other							t Left in Pip	be		
Other			Feet			Reason				
				amo	nt Data					
Stage Sacks	Cement		Additiv	AS				W/R		Lbs/Ga
1 400 Premi	ium "H" (Thixotropic	10 % Gypsum +	4 % Total	Gel +	1/4#/sk Cello	flake + 2#/sk	Phenosea	7.64	1.61	14.40
2								0 0.00	0.00	0.00
3 0	0							0.00	0.00	0.00
			St	Imma						141-1
Preflush	Type:		2000!		Preflush: Load & Bkdn	BBI Cal BBI	10.00 N/A			N/A
Breakdown	MAXIN	eturns-N	3000 psi NONE		Excess /Retu		N/A	Calc.D	isp Bbl	47
	Actual	тос			Calc. TOC:		NA	Actual Disp:B		47.00
Average IsIP5 Min	Bump 10 Min	Plug PSI: 15 M	NA /in.		Final Circ. Cement Slur	PSI: rv: BBI	115.			
Joir	10 ////1			2	Total Volume		172.0			
		/	_/		1					
		/	82	/						
	REPRESENTATI				Mag					

COUNTY	Stole	OB SUM	MARY	,		(1750	DATE 0	8/11/12	
Comanche	Kansas	COMPANY Sand	dridge		CUSTOMER REP	0			
Mariah	1120 2-361	20000000			FRAFASFFIRM	12-			
EMPNAME	1120 2-301	i wisc Fui	iping			0			
Matt Wilson	tyre	one	T	1			T		
Jarod Green									
David Thomas									
Frank									
Form. Name	Type;			alled Out	On Locatio		b Started	Lioh Co	mpleted
Packer Type	Set At		Date	8/11/2012	8/11/2	012	8/11/2012		1/2012
Bottom Hole Temp.	Pressu		Time	40.00	0.00				
Retainer Depth	Total D and Accessories		Time	12:00 am	6:00 Well		7:27 am	9;	00 am
Type and Size	Qty	Make		New/Used		Size Grade	From	То	Max. Allow
Auto Fill Tube	0	IR	Casing				Surface		5,000
nsert Float Val	0	IR	Liner				├ ─── ├ ─		
Top Plug	0	IR IR	Tubing			0	<u> </u>		
HEAD	0	IR	Drill Pipe				<u> </u>		
Limit clamp	0	IR	Open Ho				Surface	0	Shots/Ft.
<u>Neld-A</u> Texas Pattern Guide Sho	0 0e 0	IR IR	Perforation Perforation						
Cement Basket		- iR	Perforatio				┨━━━━━┨━		
Ň	laterials		Hours Or	Location	Operatina	Houra	Descriptio	n of Job	
		9 Lb/Gal 8.33 Lb/Gal	8/11	Hours 3.0	Date 8/11	Hours 4.0	Misc Pum	ping	
Spacer type mud wast	1BBL 20	8.40		0.0		4.0			
Spacer type H2O	BBL. 10	8.33							
Aoid Type	Gal	%							
Surfactant	Gal.	%							
NE Agent	Gal.	in							
Fluid Loss	Gal/LD	in j							
Selling Agent	Gal/Lb Gal/Lb	In			[
	Gal/Lb	ln	Total	3.0	Total	4.0			
Perfpac Balls Other	Qty		MAX	5.000 PS)	AVG.	essures 500			
Other			MAX	0,000101		Rates in BF	M		
Other			MAX	8 BPM	AVG	6			
Other			Feet	0		Left in Pip			
Other			reet	0	Reason	SHOE JOI	NI		
			Cem	nent Data					
	Cement		Additives				W/Rq.	Yield	Lbs/Gal
	H" (Thixotropic	10 % Gypsum + 4	4 % Total Gel	+ 1/4#/sk Cellof	lake + 2#/sk	Phenoseal	7.64	1.61	14.40
2	0				the second second second		0 0.00	0.00	0.00
							0.00	0.00	0.00
			Sumn		0.01		1-		
Preflush 10	Type: MAXIMI		austic 5,000 PSI	_ Preflush: Load & Bkdn:	BBI Gal - BBI	N/A	Type: Pad:Bbl -(Gal	N/A
reakdowin	Lost Re	turns-N	NO/FULL	Excess /Retur		N/A	Calc.Disp	Bbl	34
sreakdown	Actual T			Calc. TOC: Final Circ.	DCI	450	Actual Dis	sp.	33.60
		Plug PSI:15 M	lin	_ Final Circ. _ Cement Slurry	PSI: : BBI	115.0	Disp:Bbl		
Average									
Average	Bump P 10 Min _	10 W		Total Volume	BBI	148.60			· · · · · · · · · · · · · · · · · · ·
Average5 Min			>		BBI	148.00			
Average5 Min	10 Min _	77	,		BBI	148.00			
Average	10 Min _	77	Java		SIGNATURE		1		

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								PROJECT NUMB			TICKET DATE		Sector Sector
COUNTY STATE JOB SUMMARY								SOK 1787 08/20/12					2
Comanche Kan	ation & Produc			Dwayne Burt									
LEASE NAME Mariah 1120	EMPLOYEE NAME												
EMP NAME		-361 Misc Pump	Jing					I	Derek	Lei	NIS		
Derek Lewis		0.00		1	T								
0.00													
Jason Jones Cheryl Newton													
	IAF	De:		Ca	lled C	Dut	-	On Locatio	n I	lab	Started		
Packer Type	Set	At 0	Date	04		0/2012	-	8/21/2	012		8/21/2012		ompleted 21/2012
Bottom Hole Temp. 150 Retainer Depth		ssure0	Time		0.0	0		4.00					
Tools and Acce	2550		Time		9:0)0 pm	_	1:30 a			6:23 am	7	:20 am
Type and Size Q1	γ	Make			1	New/Use	d	Weight		ade	From	То	Max. Allow
Auto Fill Tube 0 Insert Float Val 0			Casing			_		11.6	4 1/2			10	INIGA. MICH
Centralizers 0			Liner T HWDP				_			1			
Top Plug 0			Drill Pin				-		3 1/2"	+			
HEAD 0			Drill Co	llars									
Limit clamp 0 Weld-A 0	- 1		Open H Perfora				_		6 1/8'	-		0	Shots/Ft.
Texas Pattern Guide Shoe 0			Perfora							-+			
Cement Basket 0			Perfora	llon	S					+			
Mud Type WBM Dens	sity	9.1 Lb/Gal	Hours (Date			ion ours	r	Operating Date		_	Descrip	tion of Job)
Disp. Fluid Fresh Water Dens	sity	8.33 Lb/Gal	8/21			3.5	ł	8/21	Hours 2.5	4	Misc Pu	Imping	
Spacer type resh Wate BBL.	20	8.33					l						
Spacer type BBL Acid Type Gal.		%	<u> </u>	_			ŀ				-		
Acid Type Gal.		%					ł			-			
Surfactant Gal NE Agent Gal	_	In					1						
NE Agent Gal Fluid Loss Gal/Lb _		ln ln		-			ŀ			_			
Gelling Agent Gal/Lb		In		-			ł			-	•		
Fric. Red Gal/Lb MISC Gal/Lb		In	Tatal				Ľ						
		In	Total	L	2	3.5		Total [2.5				
Perfpac Balls(Qty.							Pre	ssures				
Other			MAX		300	0 PSI	_	AVG.					
Other			MAX		4 E	врм		Average F AVG	tates in l	Bbw	1		
Other								Cement	Left in P	ipe			
Other	-		Feet		N	JA	_	Reason					
			0.										
Stage Sacks Cement		T	Additives		nt Da	ta			and the statement		18//0-	1 Vield	11-10-1
1 0 0											0 0.00	. Yield 0.00	Lbs/Gal 0.00
2 0 0 3 0 0											0 0.00	0.00	0.00
3 0 0							_				0 0.00	0.00	0.00
			Sum	ma	ry			and the best					
	VDE				Preflu			BBI [Type:		0
		IMUM Returns-N				& Bkdn: ss /Retu		Gal - BBI	N/A		Pad:Bbl Calc.Dis		N/A 111
A	ctu	al TOC		_ (Calc.	TOC:		-			Actual D	Disp.	140.00
	0 N	p Plug PSI: lin15 Min				Circ. ent Slurr		PSI:	32()	Disp:Bb	I	140.00
		10 1011				Volume		BBI			_		
		/	7				2						•••••••
		/	1			6	-	1					
CUSTOMER REPRESEN	A		ula	1	nl,	41	s	SIGNATURE					
		<u> </u>				/		JONATURE					



Survey MARIAH 3120 2-36H

123 Robert S. Kerr Ave. Oklahoma City, OK 73102

Step #1 - Create a Deviation Survey Step #2 - Attach the survey "Description" to the Wellbore - Deviation Survey Wellbores - Step #2 Actual Deviation Survey Survey, Proposed? <proposed> **Original Hole Deviation Surveys - Step #1** VS Dir (°) Description Date Comment Survey 7/28/2012 179.24 **Tie-in Data** EWTie In (ft) TVDTie In (ftKB) NSTie In (ft) Azimuth North Type Convergence (°) Declination (MD Tie In (ftKB) Azimuth Tie In (°) Inclination Tie In (°) 0.00 0.00 0.00 0.59 6.07 0.00 0.00 0.00 Grid Survey Data MD (ftKB) TVD (ftKB) NS (ft) EW (ft) DLS (°/100ft) Incl (°) Azm (°) Survey Company Method VS (ft) 250 Incl 0.1 500 0.4 Incl 750 0.5 Incl 1.064 1.1 4.80 Drill Right MWD 1,064 -10 10.18 0.85 0.10 0.02 0.23 1.435 0.5 315.40 Drill Right MWD 1.435 -15 14.88 -0.25 0.14 -17 16.74 1,912 0.3 72.50 Drill Right MWD 1,912 2.98 2.388 0.5 79.90 Drill Right MWD 2,388 -17 17.48 0.04 94.80 Drill Right 2.864 0.6 MWD 2.864 -18 17.63 7.51 0.04 13.74 0.07 3,342 0.9 84.10 Drill Right MWD 3.342 -18 17.81 3,519 0.8 62.10 Drill Right MWD 3,519 -18 18.53 16.21 0.19 3,945 8.9 190.10 Drill Right MWD 3,943 13 -12.59 13.05 2.21 4,008 8.8 186.30 Drill Right MWD 4,005 22 -22.18 11.67 0.94 -36.56 10.41 0.51 4,104 8.5 183.70 Drill Right MWD 4,100 37 -49.98 9.71 0.97 4,200 7.6 182.10 Drill Right MWD 4,195 50 4.262 7.1 180.00 Drill Right MWD 4.257 58 -57.91 9.56 0.92 4.291 7.2 179.80 Drill Right MWD 4.286 62 -61.52 9.57 0.36 -66.05 9.58 2.65 4.325 8.1 179.90 Drill Right MWD 4,319 66 4.356 9.1 178.90 Drill Right MWD 4.350 71 -70.68 9.63 3.26 4,384 9.9 179.90 MWD 4,378 75 -75.30 9.68 2.92 Drill Right -82.01 6.68 4,419 12.2 182.10 Drill Right MWD 4,412 82 9.55 9.29 7.74 4,450 14.6 182.00 Drill Right MWD 4,442 89 -89.19 97 -97.06 9.04 7.94 4,479 16.9 181.70 Drill Right MWD 4,470 4,511 19.5 183.20 Drill Right MWD 4,500 107 -107.04 8.60 8.26 4,545 21.6 183.50 Drill Right MWD 4,532 119 -118.95 7.91 6.18 22.8 183.80 **Drill Right** 4,559 130 -129.89 7.21 4.16 4,574 MWD 4,608 24.9 185.40 **Drill Right** MWD 4,590 144 -143.59 6.10 6.46 4.640 27.5 185.10 Drill Right MWD 4.619 158 -157.66 4.81 8.14 -171.02 3.72 4,668 29.7 184.20 Drill Right MWD 4,643 171 8.01 4,703 32.0 183.30 Drill Right MWD 4.674 189 -188.92 2.55 6.70 4,734 33.6 183.10 MWD 4,700 206 -205.69 1.62 5.17 Drill Right 222 0.82 4,763 35.5 182.50 Drill Right MWD 4,723 -222.12 6.66 243 -242.87 0.02 5.24 4,798 37.3 181.90 Drill Right MWD 4,752 4,776 262 -262.03 -0.70 5.89 4,829 39.1 182.40 MWD Drill Right -1.50 4,858 40.8 182.50 Drill Right MWD 4,798 281 -280.63 5.87 -2.39 7.52 4,893 43.4 181.90 Drill Right MWD 4,824 304 -304.07 326 -2.94 6.03 4,925 45.2 180.90 Drill Right MWD 4,847 -326.42 4,953 46.9 180.60 Drill Right MWD 4,867 346 -346.57 -3.20 6.12 4.989 48.8 179.40 Drill Right MWD 4.891 373 -373.26 -3.20 5.83 5.020 49.7 179.40 Drill Right MWD 4,911 397 -396.74 -2.95 2.90 5,048 49.8 179.00 **Drill Right** MWD 4,929 418 -418.11 -2.65 1.15 5.083 50.1 178.80 **Drill Right** MWD 4,952 445 -444.90 -2.14 0.96 469 -469.44 1.92 50.1 178.00 Drill Right MWD 4,972 -1.45 5.115 5,144 50.4 177.60 Drill Right MWD 4,991 492 -491.72 -0.60 1.48 5,178 50.2 177.00 Drill Right MWD 5,012 518 -517.85 0.64 1.48 52.1 5.96 177.20 Drill Right MWD 5,032 543 -542.74 1.90 5,210

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Survey MARIAH 3120 2-36H

123 Robert S. Kerr Ave. Oklahoma City, OK 73102

Step #1 - Create a Deviation Survey #2 - Attach the survey "Description" to the Wellbore - Deviation Survey

Step

vey Data				404 (A)		10 (1)	10 (0)	EIA(/A)	DI 0 /8/4
MD (ftKB) 5,239	Incl (°) 55.8	Azm (°)	Survey Company Drill Right	Method MWD	TVD (ftKB) 5,049	VS (ft) 566	NS (ft) -566.16	EW (ft) 2.88	DLS (°/1 1
5,272	59.9		Drill Right	MWD	5,067	594	-594.08	3.53	1
5,303	62.1		Drill Right	MWD	5,082	621	-621.19	3.64	
5,303	63.7		Drill Right	MWD	5,082	647	-647.01	3.48	
5,367	2019 19890 -			MWD	5,095	679	-678.74	3.40	
5,398	66.4 69.7		Drill Right	MWD	5,122	707	-707.49	3.63	
5,398	72.3		Drill Right	MWD	5,122	707	-707.49	3.85	
			Drill Right	MWD			-734.90	4.08	
5,461	75.0		Drill Right		5,141	768			
5,493	76.9		Drill Right	MWD	5,148	799	-798.57	4.18	
5,507	77.5		Drill Right	MWD	5,151	812	-812.22	4.19	
5,564	79.9		Drill Right	MWD	5,163	868	-868.11	4.29	
5,594	81.9		Drill Right	MWD	5,167	898	-897.72	4.84	
5,622	84.0		Drill Right	MWD	5,171	925	-925.49	5.93	
5,656	85.2		Drill Right	MWD	5,174	959	-959.31	7.26	
5,687	86.2		Drill Right	MWD	5,176	990	-990.21	8.04	
5,715	88.7		Drill Right	MWD	5,178	1,018	-1,018.18	8.40	
5,749	89.9		Drill Right	MWD	5,178	1,052	-1,052.18	8.76	
5,780	89.9		Drill Right	MWD	5,178	1,083	-1,083.17	8.98	
5,808	90.2		Drill Right	MWD	5,178	1,111	-1,111.17	9.07	
5,843	90.3		Drill Right	MWD	5,178	1,146	-1,146.17	9.29	
5,875	90.0		Drill Right	MWD	5,178	1,178	-1,178.17	9.51	
5,903	90.3	179.10	Drill Right	MWD	5,178	1,206	-1,206.17	9.81	
5,938	90.2	179.30	Drill Right	MWD	5,178	1,241	-1,241.17	10.29	
5,970	90.2	179.20	Drill Right	MWD	5,177	1,273	-1,273.16	10.71	
5,998	90.1		Drill Right	MWD	5,177	1,301	-1,301.16	11.08	
6,093	90.2	178.60	Drill Right	MWD	5,177	1,396	-1,396.14	12.82	
6,190	90.3	178.70	Drill Right	MWD	5,177	1,493	-1,493.12	15.11	
6,284	90.7	178.50	Drill Right	MWD	5,176	1,587	-1,587.08	17.40	
6,380	90.9	179.80	Drill Right	MWD	5,175	1,683	-1,683.06	18.83	
6,476	90.8	179.90	Drill Right	MWD	5,173	1,779	-1,779.05	19.08	
6,571	88.9	181.80	Drill Right	MWD	5,173	1,874	-1,874.03	17.67	
6,666	88.5	180.90	Drill Right	MWD	5,176	1,969	-1,968.98	15.43	
6,764	88.2	179.90	Drill Right	MWD	5,178	2,067	-2,066.94	14.75	
6,856	89.2	178.30	Drill Right	MWD	5,180	2,159	-2,158.90	16.19	
6,951	89.2		Drill Right	MWD	5,182	2,254	-2,253.84	19.09	
7,045	89.5		Drill Right	MWD	5,183	2,348	-2,347.79	22.13	
7,140	89.9		Drill Right	MWD	5,183	2,443	-2,442.74	25.11	
7,234	89.7		Drill Right	MWD	5,184	2,537	-2,536.70	27.65	
7,330	89.7		Drill Right	MWD	5,184	2,633	-2,632.67	30.08	
7,425	88.6		Drill Right	MWD	5,186	2,728	-2,727.64	31.74	
7,515	87.8		Drill Right	MWD	5,188	2,818	-2,817.59	32.68	
7,617	88.2		Drill Right	MWD	5,192	2,920	-2,919.52	34.46	
7,713	87.9		Drill Right	MWD	5,195	3,016	-3,015.43	36.72	
7,807	88.5		Drill Right	MWD	5,198	3,110	-3,109.35	39.18	
7,902	89.9		Drill Right	MWD	5,200	3,205	-3,204.30	42.00	
7,997	90.8		Drill Right	MWD	5,199	3,300	-3,299.25	44.98	
8,093	90.4		Drill Right	MWD	5,198	3,396	-3,395.23	46.66	
8,187	90.9		Drill Right	MWD	5,197	3,490	-3,489.22	46.41	
8,281	90.9		Drill Right	MWD	5,197	3,584	-3,489.22	46.00	
8,373	88.5		Drill Right	MWD	5,196	3,584	-3,583.21		
8,408	87.6		Drill Right	MWD	5,198	3,675	-3,675.19	44.80 43.85	
	0/ 0/	101.001			5.1981	3./10	-3./10.10	43.85	

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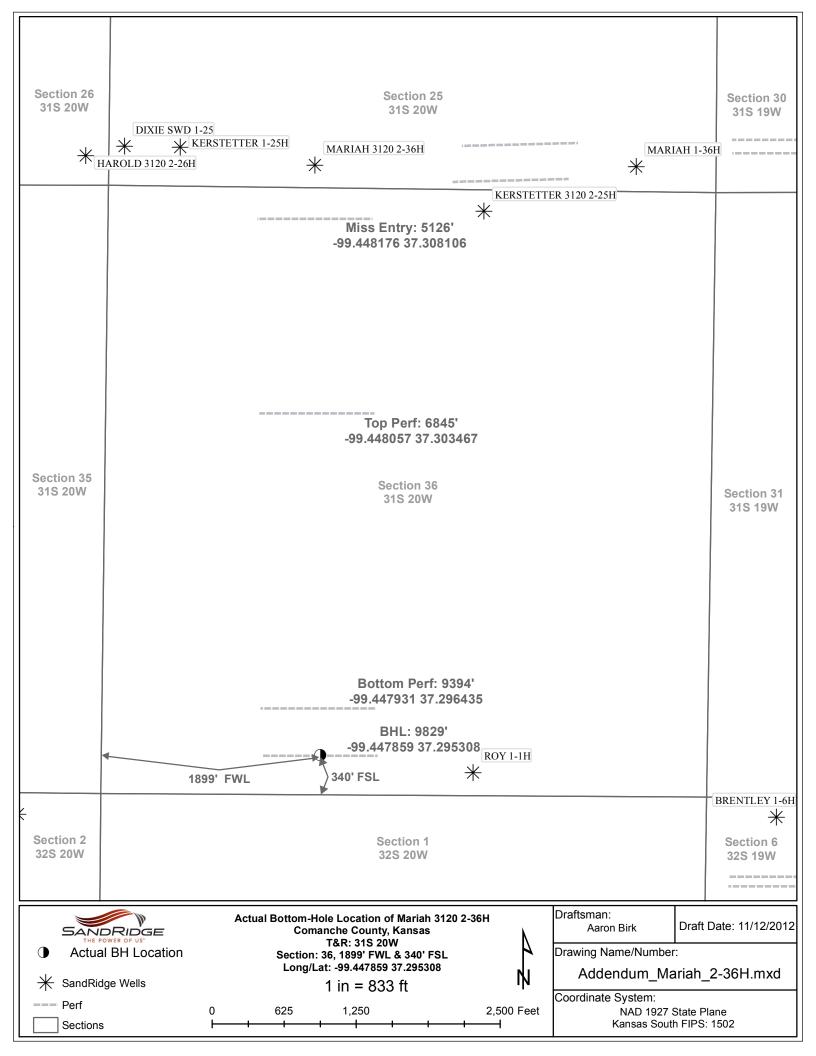
Survey MARIAH 3120 2-36H

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MD (ftKB)	Incl (°)	Azm (°)	Survey Company	Method	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft
8,468	87.2		Drill Right	MWD	5,200	3,770	-3,770.09	42.33	2.0
8,502	87.0	181.70	Drill Right	MWD	5,202	3,804	-3,804.03	41.41	1.0
8,534	86.9	181.70	Drill Right	MWD	5,203	3,836	-3,835.97	40.47	0.3
8,563	87.3	181.40	Drill Right	MWD	5,205	3,865	-3,864.92	39.68	1.7
8,597	88.0	181.90	Drill Right	MWD	5,206	3,899	-3,898.88	38.71	2.5
8,658	88.4	181.30	Drill Right	MWD	5,208	3,960	-3,959.83	37.00	1.1
8,757	87.9	180.00	Drill Right	MWD	5,211	4,059	-4,058.77	35.88	1.4
8,852	88.8	180.50	Drill Right	MWD	5,214	4,154	-4,153.73	35.47	1.0
8,947	89.6	181.40	Drill Right	MWD	5,216	4,249	-4,248.70	33.89	1.2
9,041	88.5	181.90	Drill Right	MWD	5,217	4,343	-4,342.65	31.18	1.2
9,132	88.6	181.80	Drill Right	MWD	5,219	4,434	-4,433.57	28.25	0.1
9,228	89.3	180.40	Drill Right	MWD	5,221	4,529	-4,529.53	26.41	1.6
9,324	89.9	180.10	Drill Right	MWD	5,222	4,625	-4,625.53	25.99	0.7
9,418	90.4	178.90	Drill Right	MWD	5,222	4,719	-4,719.52	26.81	1.3
9,514	90.2	178.20	Drill Right	MWD	5,221	4,815	-4,815.49	29.24	0.7
9,608	90.9	177.60	Drill Right	MWD	5,220	4,909	-4,909.42	32.68	0.9
9,704	90.1	177.20	Drill Right	MWD	5,219	5,005	-5,005.32	37.04	0.9
9,784	90.1	177.00	Drill Right	MWD	5,219	5,085	-5,085.22	41.08	0.2
9,829	90.1	177.00	Drill Right	MWD	5,219	5,130	-5,130.16	43.44	0.0

Step



Back to Well Completion

Mariah 3120 2-36H (1091395)

Actions	Attachments	
View PDF	Two Year Confidentiality	View PDF
Delete	OPERATOR	Delete
Edit	Cement Reports	View PDF
Certify & Submit	OPERATOR	Delete
Request Confidentiality	Directional Survey	View PDF
	OPERATOR	Delete
	As Drilled Plat	View PDF
	OPERATOR	Delete
		Add Attachment

Remarks to KCC			
		Add F	Remar

Remarks

Tiffany Golay 11/09/012^{conductor} weight= 106.5

08:31 am

Tiffany Additional Fluid Mgmt Info: 400 bbls hauled to LoJo Disposal Pit #1 SW/4 10-26N-15W, Woods, ok; 39 Golay bbls hauled to Gray Mud Disposal SW/4 15-24S-7W, Garfield, OK; 200 bbls hauled to Nard, Inc 11/08/012German #2 NE/4 28-29N-22W Harper, ok; 280 bbls hauled to KBW Oil & Gas Co Harmon 1 NW/4 11-08:54 am 33S-20W Comanche, KS D-22304