Confidentiality Requested: Yes No

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

1075704

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 North / South Line of Section
City: State: Zip:+	Feet from Feet from East / West Line of Section
Contact Person: Conto: 2.p Contact Person:	Footages Calculated from Nearest Outside Section Corner:
Phone: ( )	
CONTRACTOR: License #	
Name:	GPS Location: Lat:, Long:, (e.gxxx.xxxxx)
Wellsite Geologist:	Datum: NAD27 NAD83 WGS84
Purchaser:	County:
	Lease Name: Well #:
Designate Type of Completion:	Field Name:
New Well Re-Entry Workover	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
CM (Coal Bed Methane) Cathodic Other (Core, Expl., etc.):	Multiple Stage Cementing Collar Used? Yes No
If Workover/Re-entry: Old Well Info as follows:	If yes, show depth set: Feet
	If Alternate II completion, cement circulated from:
	feet depth to:w/sx cmt.
Well Name:	w 37 cm.
Original Comp. Date: Original Total Depth:	
Deepening     Re-perf.     Conv. to ENHR     Conv. to SWD     Plug Back     Conv. to GSW     Conv. to Producer	Drilling Fluid Management Plan (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 #:	Operator Name:
GSW Permit #:	Lease Name: License #:
	Quarter Sec TwpS. R East West
Spud Date or         Date Reached TD         Completion Date or           Recompletion Date         Recompletion Date         Recompletion Date	Quarter         Sec.         Twp.         S.         N.         Desc.         West           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 Two	1075704
Operator Name:	_ Lease Name:	Well #:
Sec TwpS. R East West	County:	
INCTRUCTIONS: Chause important tang of formations paratested	atail all aaraa Bapart all final	agniag of drill atoms tools giving interval toolad, 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	eets)	Yes     No     Log     Formation (Top), Depth and Datum     Sample					
Samples Sent to Geolog	gical Survey	Yes No	Nam	e		Тор	Datum
Cores Taken Electric Log Run		Yes No					
List All E. Logs Run:							
			RECORD Ne				
		Report all strings set-o	conductor, surface, inte	ermediate, producti	on, 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 / SQL	JEEZE RECORD			
Purpose: Perforate	Depth Top Bottom	Type of Cement	# Sacks Used		Type and Pe	ercent Additives	
Protect Casing Plug Back TD							
Plug Off Zone							

Did you perform a hydraulic fracturing treatment on this well?	Yes	No	(If No, skip questions 2 and 3)
Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?	Yes	No	(If No, skip question 3)
Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?	Yes	No	(If No, fill out Page Three of the ACO-1)

Shots Per Foot		PERFORATION Specify Fo	NRECOF	RD - Bridge P Each Interval F	lugs Set/Typ Perforated	00			ement Squeeze Record I of Material Used)	Depth
TUBING RECORD:	Si	ze:	Set At:		Packe	r At:	Liner R	lun:	No	
Date of First, Resumed	I Product	ion, SWD or ENHI	٦.	Producing M	lethod:	ping	Gas Lift	Other (Explain)		
Estimated Production Per 24 Hours		Oil Bb	ls.	Gas	Mcf	Wate	er	Bbls.	Gas-Oil Ratio	Gravity
DISPOSITI		345.			METHOD	OF COMPLE			PRODUCTION IN	TERVAL
Vented Solo	d 🗌	Used on Lease		Open Hole	Perf.		Comp.	Commingled (Submit ACO-4)		
(If vented, Su	bmit ACC	D-18.)		Other (Specify)						

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

Form	ACO1 - Well Completion			
Operator	SandRidge Exploration and Production LLC			
Well Name	Larry 1-30H			
Doc ID	1075704			

### Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
	9409-9410	3192 bbls water, 48 bbls acid, 54M lbs sd, 3240 TLTR	
	9144-9145	3156 bbls water, 48 bbls acid, 56M lbs sd, 6396 TLTR	
	8879-8880	3247 bbls water, 48 bbls acid, 55M lbs sd, 9691 TLTR	
	8614-8615	3126 bbls water, 48 bbls acid, 55M lbs sd, 12855 TLTR	
	8349-8350	3139 bbls water, 48 bbls acid, 59M lbs sd, 16042 TLTR	
	8084-8085	3142 bbls water, 48 bbls acid, 56M lbs sd, 19232 TLTR	
	7819-7820	3133 bbls water, 48 bbls acid, 55M lbs sd, 22413 TLTR	
	7555-7556	3133 bbls water, 48 bbls acid, 55M lbs sd, 25590 TLTR	
	7290-7291	3125 bbls water, 48 bbls acid, 55M lbs sd, 28763 TLTR	
	7025-7026	3100 bbls water, 48 bbls acid, 56M lbs sd, 31906 TLTR	

Form	ACO1 - Well Completion			
Operator	SandRidge Exploration and Production LLC			
Well Name	Larry 1-30H			
Doc ID	1075704			

## Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
	6760-6761	3139 bbls water, 48 bbls acid, 55M lbs sd, 35093 TLTR	
	6495-6496	3161 bbls water, 48 bbls acid, 55M lbs sd	
	6230-6231	3105 bbls water, 48 bbls acid, 56045 lbs sd	
	5965-5966	3116 bbls water, 48 bbls acid, 56045 lbs sd	
	5700-5701	3172 bbls water, 46 bbls acid, 56045 lbs sd	

Conservation Division Finney State Office Building 130 S. Market, Rm. 2078 Wichita, KS 67202-3802



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

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

March 19, 2012

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

Re: ACO1 API 15-033-21625-01-00 Larry 1-30H NW/4 Sec.30-31S-19W 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

# SandRidge Energy

Comanche County (KS27S) Sec 30-T31S-R19W Larry 1-30H

Wellbore #1

Survey: MWD Surveys

# **Standard Survey Report**

18 March, 2012

## Wolverine Directional, LLC

Survey Report

Company: Project: Site: Well: Wellbore: Design:	SandRidge Ener Comanche Cour Sec 30-T31S-R1 Larry 1-30H Wellbore #1 Wellbore #1	nty (KS27S)		TVD Ref MD Refe North Re	erence: eference: Calculation I		WELL @ 0.0f Grid Minimum Cur	t (Original Well t (Original Well	Elev)
Design	Wellbore #1					n an an an tao an ta			
Audit Notes:									
Version:	1.0		Phase:	ACTUAL		Tie On Dept	:h:	0.0	
Vertical Section	n:	Depth Fro	om (TVD)	+N/-\$	S	+E/-W		Direction	
		(f		(ft)		(ft)		(°)	
		0.	0	0.0		0.0		178.74	
Survey Program	n	Date 2012/0	13/18	<b>水水</b> 水水和					
From	То	Dale 2012/0	13/10						
(ft)	(ft)	Survey (Wellb	ore)		Tool Name		Description		
1,039	9,527.0	MWD Surveys			MWD		MWD - Stand	lard	
Survey									2020-25-07596-2528-2678
Measure Depth (ft)	d Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
	0.00		0.0	0.0	0.0	0.0	0.00	0.00	0.00
1,039			1,039.0	2.2	-5.0	-2.3	0.06	0.06	0.00
	WD Survey	200 40	4 000 0	2.0	7.4	2.4	0.10	0.46	2.61
1,230 1,516			1,230.0 1,516.0	3.0 3.7	-7.4 -9.3	-3.1 -3.9	0.16 0.34	0.16 -0.28	-3.61 47.27
1,992	2.0 0.40	151.10	1,991.9	2.5	-8.1	-2.6	0.09	0.06	18.80
2,469			2,468.9	-1.0	-6.9	0.9	0.04	0.02	3.84
2,945 3,422			2,944.9 3,421.9	-3.6 -3.1	-5.4 -2.6	3.5 3.0	0.08 0.09	-0.04 0.04	-11.16 -12.29
3,896	0.60	1.30	3,895.9	0.5	-0.8	-0.5	0.11	0.02	-11.90
3,992			3,991.9	1.6	-0.3	-1.6	0.49	0.21	36.98
4,087 4,182			4,086.9 4,181.9	2.3 2.8	0.5 1.4	-2.3 -2.8	0.42 0.15	-0.21 0.11	30.21 -9.68
4,214	.0 0.60	55.70	4,213.9	3.0	1.7	-3.0	0.31	-0.31	-1.88
4,246 4,277			4,245.9 4,276.8	2.7 1.1	2.0 2.4	-2.6 -1.1	6.07 8.19	3.44 8.06	327.19 30.32
4.309			4,270.0	-1.8	2.4	-1.1	7.36	7.19	17.19
4,341	.0 8.20	174.90	4,340.4	-5.9	3.1	6.0	5.31	5.31	-1.25
4,373 4,404			4,372.0 4,402.4	-11.0 -17.2	3.5 3.8	11.1 17.3	6.60 7.56	6.56 7.42	4.38 7.42
4,436			4,433.4	-24.9	3.8	25.0	8.22	8.13	5.31
4,468			4,464.1	-34.1	3.7	34.2	9.73	9.69	3.13
4,500 4,531			4,494.2 4,523.0	-44.8 -56.2	3.4 3.1	44.9 56.3	7.81 5.50	7.81 5.48	0.31 0.97
4,563	.0 24.20	181.40	4,552.4	-68.9	2.8	69.0	5.33	5.31	-0.94
4,595			4,581.3	-82.6	2.5	82.6	7.25	7.19	-2.19
4,627 4,658			4,609.8 4,637.0	-97.3 -112.2	2.5 2.5	97.3 112.2	5.13 3.87	5.00 3.87	-2.50 0.00
4,690	.0 31.00	180.60	4,664.6	-128.2	2.4	128.3	5.42	5.31	2.19
4,722 4,754		180.60 179.90	4,691.7 4,718.1	-145.3 -163.4	2.2 2.2	145.3 163.4	7.81 5.45	7.81 5.31	0.00 -2.19
4,785			4,743.2	-181.6	2.2	181.6	4.52	4.52	0.00
4,817	.0 38.90	178.90	4,768.5	-201.1	2.4	201.1	7.44	7.19	-3.13
4,849 4,881		178.50 179.10	4,793.0 4,816.7	-221.8 -243.3	2.9 3.3	221.8 243.3	7.85 5.16	7.81 5.00	-1.25 1.88
4,912		179.40	4,839.0	-264.8	3.6	264.8	7.13	7.10	0.97
4,944		179.60	4,860.9	-288.1	3.8	288.1	9.70	9.69	0.63
4,976 5,007			4,881.7 4,901.4	-312.4 -336.3	4.2 5.0	312.4 336.4	7.44 0.75	6.88 0.00	-3.75 -0.97

## Wolverine Directional, LLC

Survey Report

Company:	SandRidge Energy	Local Co-ordinate Reference:	Well Larry 1-30H
Project:	Comanche County (KS27S)	TVD Reference:	WELL @ 0.0ft (Original Well Elev)
Site:	Sec 30-T31S-R19W	MD Reference:	WELL @ 0.0ft (Original Well Elev)
Well:	Larry 1-30H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 2003.21 Single User Db

#### Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,039.0	50.30	177.80	4,921.8	-361.0	5.8	361.0	0.96	-0.63	-0.94
5,071.0	50.00	177.30	4,942.3	-385.5	6.9	385.6	1.52	-0.94	-1.56
5,103.0	49.80	177.10	4,962.9	-410.0	8.1	410.0	0.79	-0.63	-0.63
5,134.0	49.50	176.80	4,983.0	-433.6	9.3	433.7	1.22	-0.97	-0.97
5,166.0	49.50	176.70	5,003.8	-457.8	10.7	458.0	0.24	0.00	-0.31
5,198.0	52.00	176.90	5,024.0	-482.6	12.1	482.7	7.83	7.81	0.63
5,230.0	55.30	177.80	5,043.0	-508.3	13.3	508.5	10.56	10.31	2.81
5,261.0	58.90	178.70	5,059.8	-534.3	14.1	534.5	11.87	11.61	2.90
5,293.0	62.00	178.90	5,075.6	-562.2	14.7	562.4	9.70	9.69	0.63
5,325.0	64.50	178.40	5,090.0	-590.7	15.3	590.9	7.94	7.81	-1.56
5,356.0	67.50	178.20	5,102.6	-619.0	16.2	619.2	9.70	9.68	-0.65
5,388.0	69.90	177.50	5,114.2	-648.8	17.3	649.1	7.77	7.50	-2.19
5,420.0	72.80	177.80	5,124.5	-679.1	18.5	679.4	9.11	9.06	0.94
5,452.0	76.10	178.10	5,133.1	-709.9	19.6	710.2	10.35	10.31	0.94
5,483.0	79.20	178.90	5,139.7	-740.2	20.4	740.5	10.31	10.00	2.58
5,515.0	81.30	179.80	5,145.1	-771.7	20.8	772.0	7.12	6.56	2.81
5,604.0	84.90	179.90	5,155.8	-860.1	21.0	860.3	4.05	4.04	0.11
5,635.0	86.80	179.90	5,158.0	-891.0	21.1	891.2	6.13	6.13	0.00
5,665.0	88.50	180.10	5,159.3	-921.0	21.1	921.2	5.71	5.67	0.67
5,696.0	89.10	180.30	5,159.9	-951.9	21.0	952.2	2.04	1.94	0.65
5,726.0	90.30	180.40	5,160.1	-981.9	20.8	982.2	4.01	4.00	0.33
5,757.0	90.70	180.60	5,159.8	-1,012.9	20.5	1,013.2	1.44	1.29	0.65
5,849.0	91.60	181.10	5,158.0	-1,104.9	19.2	1,105.1	1.12	0.98	0.54
5,940.0	91.30	177.90	5,155.7	-1,195.9	19.9	1,196.0	3.53	-0.33	-3.52
6,032.0	89.50	176.90	5,155.0	-1,287.8	24.1	1,288.0	2.24	-1.96	-1.09
6,124.0	90.70	177.10	5,154.8	-1,379.6	28.9	1,379.9	1.32	1.30	0.22
6,217.0	89.70	177.40	5,154.5	-1,472.5	33.4	1,472.9	1.12	-1.08	0.32
6,309.0	88.70	176.00	5,155.8	-1,564.4	38.7	1,564.8	1.87	-1.09	-1.52
6,399.0	88.40	176.80	5,158.1	-1,654.2	44.3	1,654.7	0.95	-0.33	0.89
6,492.0	88.60	177.20	5,160.5	-1,747.0	49.2	1,747.7	0.48	0.22	0.43
6,584.0	88.90	177.10	5,162.5	-1,838.9	53.8	1,839.6	0.34	0.33	-0.11
6,676.0	90.00	177.50	5,163.4	-1,930.8	58.1	1,931.6	1.27	1.20	0.43
6,772.0	90.80	176.90	5,162.7	-2,026.6	62.8	2,027.5	1.04	0.83	-0.63
6,867.0	90.60	177.00	5,161.6	-2,121.5	67.9	2,122.5	0.24	-0.21	0.11
6,962.0	87.20	178.70	5,163.4	-2,216.4	71.4	2,217.4	4.00	-3.58	1.79
7,057.0	88.40	178.60	5,167.1	-2,311.3	73.7	2,312.4	1.27	1.26	-0.11
7,152.0	89.20	179.10	5,169.0	-2,406.3	75.6	2,407.3	0.99	0.84	0.53
7,248.0	89.40	178.20	5,170.2	-2,502.2	77.8	2,503.3	0.96	0.21	-0.94
7,344.0	89.70	178.10	5,171.0	-2,598.2	80.9	2,599.3	0.33	0.31	-0.10
7,439.0	90.30	177.20	5,171.0	-2,693.1	84.8	2,694.3	1.14	0.63	-0.95
7,535.0	89.80	178.90	5,170.9	-2,789.0	88.1	2,790.3	1.85	-0.52	1.77
7,630.0	90.40	178.40	5,170.7	-2,884.0	90.3	2,885.3	0.82	0.63	-0.53
7,726.0	90.30	178.10	5,170.1	-2,980.0	93.3	2,981.3	0.33	-0.10	-0.31
7,821.0	90.20	177.80	5,169.7	-3,074.9	96.7	3,076.3	0.33	-0.11	-0.32
7,917.0	89.40	179.20	5,170.1	-3,170.9	99.2	3,172.3	1.68	-0.83	1.46
8,013.0	89.20	178.70	5,171.2	-3,266.8	100.9	3,268.3	0.56	-0.21	-0.52
8,108.0	89.80	178.40	5,172.1	-3,361.8	103.3	3,363.3	0.71	0.63	-0.32
8,204.0	89.50	178.10	5,172.6	-3,457.8	106.3	3,459.3	0.44	-0.31	-0.31
8,300.0	90.70	178.20	5,172.5	-3,553.7	109.4	3,555.2	1.25	1.25	0.10
8,395.0	90.90	178.10	5,171.1	-3,648.6	112.4	3,650.2	0.24	0.21	-0.11
8,491.0	92.60	179.00	5,168.2	-3,744.6	114.9	3,746.2	2.00	1.77	0.94
8,587.0	92.00	178.30	5,164.4	-3,840.5	117.1	3,842.1	0.96	-0.63	-0.73
8,683.0	90.60	177.50	5,162.2	-3,936.4	120.6	3,938.1	1.68	-1.46	-0.83
8,778.0	87.30	177.10	5,163.9	-4,031.2	125.1	4,033.0	3.50	-3.47	-0.42

#### Wolverine Directional, LLC

#### Survey Report

Company: Project: Site: Well: Wellbore: Design:	Comano Sec 30- Larry 1- Wellbor	manche County (KS27S) TVD Refe c 30-T31S-R19W MD Refe rry 1-30H North Re			rence: ence: ference: alculation N	WELL @ 0.0ft (Original Well Elev)				
Survey										
Measu Depti (ft)		lination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
8,87 8,97 9,06	70.0	86.90 90.10 88.80	175.40 178.00 175.20	5,168.8 5,171.3 5,172.2	-4,126.9 -4,222.7 -4,317.5	131.4 136.9 142.5	4,128.8 4,224.7 4,319.6	1.82 4.29 3.25	-0.42 3.33 -1.37	-1.77 2.71 -2.95
9,16 9,25 9,35 9,44 9,47	56.0 52.0 48.0 78.0	88.70 89.40 88.70 87.60 86.60	174.30 177.80 179.00 179.20 178.70	5,174.3 5,175.9 5,177.5 5,180.6 5,182.1	-4,413.1 -4,507.8 -4,603.8 -4,699.7 -4,729.7	151.3 157.9 160.5 162.0 162.6	4,415.3 4,510.2 4,606.2 4,702.1 4,732.1	0.94 3.76 1.45 1.16 3.73	-0.10 0.74 -0.73 -1.15 -3.33	-0.94 3.68 1.25 0.21 -1.67
9,52	/IWD Surv 24.5 1-30H PB	86.60	178.70	5,184.8	-4,776.1	163.6	4,778.5	0.00	0.00	0.00
9,52 Proj te	27.0	86.60	178.70	5,185.0	-4,778.6	163.7	4,781.0	0.00	0.00	0.00
Survey Annot	ations									
	Measured Depth (ft)	l Vert Dep (fi	oth 4	Local Coord +N/-S (ft)	linates +E/-W (ft)	Commer	nt			
	1,039.0 9,478.0 9,527.0	D 5,	039.0 ,182.1 185.0	2.2 -4,729.7 -4,778.6	-5.0 162.6 163.7		/D Survey /D Survey D			
Checked By	<i>r</i> :			Аррі	roved By:				Date:	

# **American Measurement Services**

### A Limited Liability Company Ames, Oklahoma

Station Number: Producer: Lease: Sample Pressure: Sample Temperature: Cylinder Number: Analysis By: Date Sampled: Analysis Run Date:	KS03R0027 SANDRIDGE ENERGY LARRY 1-30H 81.3 65.4 8377 AMS 4/12/2012 4/12/2012		
Gas Compor	nents Mole Percent	GPM	
Methane Ethane Propane IButane NButane IPentan NPentan C6 + Nitrogen CO2	88.693 3.402 0.615 0.197 0.268 0.141 0.090 0.378 5.598 0.619	0.9042 0.1685 0.0640 0.0839 0.0514 0.0325 0.1639	
BTU @ 14.65 @ 60 F - Real Dry Wet Specific Gravity - Real Z =	1014.4 996.6Propane And Heavier Butane 0.6280Pentane And Heavier 0.9977	Gasoline Content And Heavier	0.5642 0.3957 0.2478
H2S Field Test: .5 PPM			

Field Remarks: FIRST SALES

Analysis Based Upon GPA 2145, 2172, And 2261

						NVOICE
		111			DATE	INVOICE #
	SERV	ICES			2/28/2012	2971
·	<b>\580-254</b> Woodward,	<b>3216</b> OK				
BILL	ТО			REMIT	ТО	
ATTN: 123 RO	RIDGE ENERGY, IN PURCHASING MA BERT S. KERR AV HOMA CITY, OK 7	ANAGER ENUE		BILLING PO BOX	ERVICES, INC. DEPARTMENT 14201 DMA CITY, OK-7	3113
	STARTING D	WORK ORDER	RIG NUMBER		E NAME	Terms
	2/27/2012	WO #2412	LARIAT 38	· · · · · · · · · · · · · · · · · · ·	Y 1-30 H	Due on rec
	11	Description	I	1	Amou	nt
FURNISHED WEI FURNISHED GRO FURNISHED GRO	OUT PUMP		Ε			24,650.00
Thank you for your	business.				TOTAL	\$24.650.00

Description         Description         Constrained         Constrained <thconstrained< th=""> <thconstrained< th=""></thconstrained<></thconstrained<>			PROJECT NUMBER TICKET DATE					
Comanche         Oklahoma         Sandridge Exp and Production         Reger Barber           Larry         4.30H         Surface         During Production         Johnny Brezz           Johnny Brezze         Image: Surface         Johnny Brezze         Image: Surface         Johnny Brezze           Johnny Brezze         Image: Surface         Johnny Brezze         Image: Surface         Johnny Brezze           Johnny Brezze         Image: Surface         Johnny Brezze         Image: Surface         Johnny Brezze           Johnny Brezze         Image: Surface         Johnny Brezze         Image: Surface         Johnny Brezze           Johnny Brezze         Image: Surface         Johnny Brezze         Johnny Brezze         Johnny Brezze           Johnny Brezze         Image: Surface         Johnny Brezze         Johnny Brezze         Johnny Brezze           Johnny Brezze         Toressure         Johnny Brezze         Johnny Brezze         Johnny Brezze           Johnny Brezze         Toressure         Johnny Brezze         Johnny Brezze         Johnny Brezze           Johnny Brezze         Toressure         Johnny Brezze         Johnny Brezze         Johnny Brezze           Johnny Brezze         Toressure         Johnny Brezze         Johnny Breze         Johnny Breze	COUNTY State	JOB SUM		SOK1272 03/05/12				
Larry         1-30H         Surface         Johnny Breeze           Jhmy Breeze         Image: State of the state state of the state of the state of the state state of	Comanche Oklaho		Exp and Production	Roger Barber				
Dimy Breese         Dimy Breese <thdim breese<="" th=""> <thdimy breese<="" th=""></thdimy></thdim>			e					
Inter Wells	EMP NAME							
of Helikena         im								
Cort Woods         Image: Type:								
Jame         Type:         Job         Started         Job Completed           acker Type         Set At         0         Job Started         Job Started </td <td></td> <td>+</td> <td></td> <td></td> <td></td> <td></td>		+						
acker Type		<u> </u>						
Date         3/5/2012 <th< td=""><td></td><td></td><td>Called Out</td><td>On Location</td><td>Job Started</td><td>Job Completed</td></th<>			Called Out	On Location	Job Started	Job Completed		
tainer Depth         Total Depth         1000         11:30         16:56         18:30           Type and Size         City         Make         Weight         Data         Weight         Size         From         To         Max.Allow           Seaf Float Val         0         IR         Now/Used         Weight         Size         From         To         Max.Allow           seaf Float Val         0         IR         Now/Used         Weight         Size         From         To         Max.Allow           seaf Float Val         0         IR         Surface         991         1,500         Itime         0         Itime         Itime <td></td> <td></td> <td>Date 3/5/2012</td> <td>3/5/2012</td> <td>3/5/2012</td> <td>3/5/2012</td>			Date 3/5/2012	3/5/2012	3/5/2012	3/5/2012		
Tope and Accessories         Well Data           Type and Size         OV         Make           uto Fill Tube         0         IR           entraizers         0         IR           pendraizers         0         IR           pop Plug         1         IR           print clarmp         0         IR           pendraizers         0         IR           pendraizers         0         IR           pendraizers         0         IR           pendraizers         0         IR           pendraitons         0         IR           perforations         0         IR           pacer type         Faishwate Ball         0         8.33           pacer type         Gall         in         In           id Type         Gall         in         In           id type         Gall         in         In           id type         Gall         in         In         In				44.30	46.56	10.20		
Type and Size         Oty         Make           Other Fill Tube         0         IR           Seart Float Val         0         IR           casing         36.0         95/8         Surface         991         1,500           seart Float Val         0         IR         Liner         36.0         95/8         Surface         991         1,500           seart Float Val         1         IR         Diff Ippe         0         Im			[Time ] 05:00		10.00	1 18.30		
Use Fill Tube         0         IR         Casing         36.0         9 5/8         Surface         991         1,600           entralizers         0         IR         Iner         -			New/Used		Brade From	To Max. Allow		
antralizers         0         IR           p Plug         1         IR           EAD         1         IR           EAD         1         IR           EAD         1         IR           FAD         0         IR           Fadd         0         IR           Sas Pattern Guide Shoe         0         IR           Perforations         2         1.000           Sh Fluid         Fresh Water Density         9.3.2 Lb/Gal           Jate         Hours         On Location         Date Hours           Jate         Hours         Date Hours         Date Hours           Jate         Hours         On Location         Date Hours           Jate         Hours         Jate         Hours         Date Hours           Jate         Gal.         %         Stataat         Date         Adate           Jate         Gal.         %         Stataat         Date         Adate         Date         Adate         Date	Auto Fill Tube 0	IR	Casing	36.0 9 5/8	Surface	991 1,500		
Dip Plug         1         IR           EAD         1         IR           mit damp         0         IR           mit damp         0         IR           mit damp         0         IR           performations         121/4"         Surface           sag Pattern Quide Shoe         0         IR           performations         121/4"         Surface           sag Pattern Quide Shoe         0         IR           performations         1         In           sag Pattern Quide Shoe         0         IR           performations         1         Date           performations         1         Date           performations         0         Date           performations								
ZADS         1         1         1R         1R           mit clamp         0         IR         Done Hole         12 1/4"         Surface         1,000         Shots/FI.           efed-A         0         IR         Perforations         1         1,000         Shots/FI.           exas Pattern Guide Shoe         0         IR         Perforations         12 1/4"         Surface         1,000         Shots/FI.           was Pattern Guide Shoe         0         IR         Perforations         Date         1000         Surface         1000         Surface         1000         Shots/FI.           was Pattern Guide Shoe         0         IR         Perforations         Date         Hours         Date         Hours         Surface         1000         1000         Surface	ocitituizero							
Display         Open Hole         12 1/4"         Surface         1,000         Shots/Ft.           refad-A         0         R         Perforations         1         1,000         Shots/Ft.           exas Pattern Guide Shoe         0         R         Perforations         1         1         1,000         Shots/Ft.           ement Basket         Materials         0         Perforations         0         Dearding Hours         Descriptions         Descript								
feld-A         0         IR           ement Basket         0         IR           ement Basket         0         IR           ement Basket         0         IR           perforations         0         IR           perforations         0         IR           perforations         0         IR           perforations         0         Descriptions           pacer type         Gal.         9%           oid Type         Gal.         9%           oid Type         Gal.         1           id Add         Orescures         De				12 1	4" Surface	1,000 Shots/Ft.		
ement Basket         0         IR           Materials         Materials         Image: Second Secon	Weld-A 0	IR	Perforations					
Materials         Materials         Description         Description         Description         Jobs           isp. Fluid         Fresh Water         Density         9         Lb/Gal         Hours         Date         Date         Jobs         Surface           sp. Fluid         Fresh Water         Description         6.0         Jobs         Jobs         Surface         Surface           accer type         Bal.         %         Jobs         Surface         Jobs         Surface         Jobs	Texas Fattern Saide Shee	IR						
Uid Type         WBM         Density         9         Lb/Gal           Sp. Fluid         Fresh Water Density         9         Lb/Gal         3/6         6.0         3/6         4.0           Daccer type         Fresh Water BBL         10         8.33         Lb/Gal         3/6         4.0           Daccer type         Gal         %         9         9         9         9         9           Did Type         Gal         %         9	Serrierit Daoria.		Hours On Location	Operating Hours	Descriptic	an of Joh		
isp. Fluid       Fresh Water       Density       8.33       Lb/Gal       3/6       4.0       Suntace         pacer type       BBL       10       8.33		9 Lb/Gal			ro			
Dacer type         BBL.         %           cid Type         Gal.         %           cid Type         Gal.         %           cid Type         Gal.         %           cid Type         Gal.         in           EAgent         Gal.         in           EAgent         Gal.         in           EAgent         Gal.         in           iling Agent         Gal/Lb         in           ic. Red.         Gal/Lb         in           iSC.         Gal/Lb         in<	Disp. Fluid Fresh Water Density	/ 8.33 Lb/Gal						
cid Type       Gal.       %         cid Type       Gal.       %         urfactant       Gal.       in         E Agent       Gal.       in         uid Loss       Gal/Lb       in         SC.       Gal/Lb       in         idtoss       Gal/Lb       in         isc.       Gal/Lb       Gal/Lb         isc.       Gal/L	Spacer type resh Wate BBL.	8.33						
cid Type       Gal.       %         gent       Gal.       in         E Agent       Gal.       in         iding Agent       Gal/Lb       in         ic. Red.       Gal/Lb       in         iSC.       Gal/Lb       in         iSC.       Gal/Lb       in         erfpac Balls       Qtv.       Pressures         her       Average Rates in BPM         ther       Average Rates in BPM         her       Average Rates in BPM         ther       Average Rates in BPM         feet       42         Reason       SHOE JOINT         cement Data       Cement Left in Pipe         feet       42         geason       SHOE JOINT         ceason       SHOE JOINT         tage Sacks       Cement       Average Rates in BPM         tage Sacks       Cement data       6% Calcium Chloride - 1/4 Ib/sk Cellflake - 0.5% C-41P       10.88       1.84       12.70         1 1440       O-Tex Lite Standard       2% Calcium Chloride - 1/4 Ib/sk Cellflake       5.20 <td< td=""><td>Acid Type BBL</td><td></td><td>}</td><td> </td><td></td><td></td></td<>	Acid Type BBL		}					
urfactant       Gal.       In								
uid Loss       Gal/Lb       In         elling Agent       Gal/Lb       In         is Red.       Cement Data         is Red.       It Is Standard       It Is Standard         2       180       Standard       2% Calcium Cholride - 1/4 Ib/sk Cell/flake - 0.5% C-41P       10.88         1       100       Standard       2% Calcium Cholride - 1/4 Ib/sk Cell/flake       5.20       1.18         is Red.	Surfactant Gal							
elling Agent       Gal/Lb       In         ic. Red.       Gal/Lb       In         ISC.       Gal/Lb       In         arfpac Balls       Qtv.       In         ther       In       In         ther       AVerage Rates in BPM         ther       AVerage Rates in BPM         ther       AVerage Rates in BPM         ther       Cement Left in Pipe         Feet       42         Reason SHOE JOINT         Cement Data         tage Sacks       Cement         Generation       Chlinke - 0.5% C-41P         1       440         O-Tex Lite Standard       16%Gel) 2% Calcium Chloride - 1/4 lb/sk Cellflake - 0.5% C-41P         1       100         Standard       2% Calcium Chloride - 1/4 lb/sk Cellflake         5.20       1.18         160       Standard         2% Calcium Chloride - 1/4 lb/sk Cellflake         5.20       1.18         160       Standard         2% Calcium Chloride - 1/4 lb/sk Cellflake         5.20       1.18         160       Calc. Disp Bbl         73       Collophice Size         60       Calc. Disp Bbl         73 <td></td> <td></td> <td></td> <td> </td> <td></td> <td></td>								
ic. Red.       Gal/Lb       In		in						
ISC.       Gal/Lb       In       Total       6.0       Total       4.0         earfpac Balls       Qtv.       Pressures       Average Rates in BPM         ther       Average Rates in BPM       Average Rates in BPM         ther       MAX       8 BPM       AVG       5         ther       Cement Left in Pipe       Feet       42       Reason       SHOE JOINT         Cement Data         Cement Data         tage Sacks       Cement       6/6/0 C-41P       10.88       1.84       12.70         2       180       Standard       2% Calcium Chloride - 1/4 lb/sk Celloflake       5.20       1.18       15.60         3       100       Standard       2% Calcium Chloride on the side       6.20       1.18       15.60         Summary         Feflush:       BBI       10.00       Type:       FRESH WATER         MAXIMUM       1.600       Preflush:       BBI       10.00       Type:       FRESH WATER         eakdown       MAXIMUM       1.600       Preflush:       BBI       10.00       Type:       FRESH WATER         eakdown       Lost Returns-N       NOFULL       Excess /Return BBI		in						
Inter       MAX       1,500 PSI       AVG       200         Average Rates in BPM       Average Rates in BPM       MAX       8 BPM       AVG       5         Max       8 BPM       AVG       5       Cement Left in Pipe         Ther       Cement Data       Cement Data         Additives       W/Rq.       Yield       Lbs/Gal         1       440       O-Tex Lite Standard       (6%Gel) 2% Calcium Chloride - 1/4 lb/sk Celloflake       5.20       1.18       15.60         2       180       Standard       2% Calcium Chloride - 1/4 lb/sk Celloflake       5.20       1.18       15.60         3       100       Standard       2% Calcium Chloride - 1/4 lb/sk Celloflake       5.20       1.18       15.60         3       100       Standard       2% Calcium Chloride - 1/4 lb/sk Celloflake       5.20       1.18       15.60         3       100       Standard       2% Calcium Chloride - 1/4 lb/sk Celloflake       5.20       1.18       15.60         4eflush       Type:       Freeflush:       BBI       10.00       Type:       FRESH WATER         eakdown       MAXIMUM       1.500 PSI       Load & Bkdn: Gal - BBI       NIA       Pad:Bbi -Gal       NIA         erage			Total 6.0	Total 4.0	)			
Inter       MAX       1,500 PSI       AVG       200         Average Rates in BPM       Average Rates in BPM       MAX       8 BPM       AVG       5         Max       8 BPM       AVG       5       Cement Left in Pipe         Ther       Cement Data       Cement Data         Additives       W/Rq.       Yield       Lbs/Gal         1       440       O-Tex Lite Standard       (6%Gel) 2% Calcium Chloride - 1/4 lb/sk Celloflake       5.20       1.18       15.60         2       180       Standard       2% Calcium Chloride - 1/4 lb/sk Celloflake       5.20       1.18       15.60         3       100       Standard       2% Calcium Chloride - 1/4 lb/sk Celloflake       5.20       1.18       15.60         3       100       Standard       2% Calcium Chloride - 1/4 lb/sk Celloflake       5.20       1.18       15.60         3       100       Standard       2% Calcium Chloride - 1/4 lb/sk Celloflake       5.20       1.18       15.60         4eflush       Type:       Freeflush:       BBI       10.00       Type:       FRESH WATER         eakdown       MAXIMUM       1.500 PSI       Load & Bkdn: Gal - BBI       NIA       Pad:Bbi -Gal       NIA         erage				Dracoura				
Average Rates in BPM           ther         Average Rates in BPM           ther         Average Rates in BPM           ther         Cement Left in Pipe           Feet         42         Reason         SHOE JOINT           Cement Left in Pipe           tage         Sacks         Cement         W/Rq.         Yield         Lbs/Gal           1         440         O-Tex Lite Standard         (6%Gel) 2% Calcium Chloride - 1/4 lb/sk Cellflake - 0.5% C-41P         10.88         1.84         12.70           2         180         Standard         2% Calcium Chloride - 1/4 lb/sk Cellflake         5.20         1.18         15.60           3         100         Standard         2% Calcium Chloride on the side         5.20         1.18         15.60           2         100         Standard         2% Calcium Chloride on the side         5.20         1.18         15.60           3         100         Standard         2% Calcium Chloride on the side         5.20         1.18         15.60           4         Summary         Ites cess / Return BBI         N/A         Pad: Bbl -Gal         N/A           reakdown         MAXIMUM         1.600 FBI         Load & Bkdn: Gal - BBI         80         Calc. Disp Bbl <td>Other</td> <td>/</td> <td>MAX 1500 PSI</td> <td></td> <td></td> <td></td>	Other	/	MAX 1500 PSI					
MAX         B BPM         AVG         5           ther	Other			Average Rates in				
Inter         Cement Left in Pipe           Feet         42         Reason SHOE JOINT           Cement Data         Cement Data           1         440         O-Tex Lite Standard         (6%Gel) 2% Calcium Chloride - 1/4 lb/sk Cellflake - 0.5% C-41P         10.88         1.84         12.70           2         180         Standard         2% Calcium Chloride - 1/4 lb/sk Cellflake - 0.5% C-41P         10.88         1.84         12.70           2         180         Standard         2% Calcium Chloride - 1/4 lb/sk Cellflake         5.20         1.18         15.60           3         100         Standard         2% Calcium Chloride on the side         5.20         1.18         15.60           3         100         Standard         2% Calcium Chloride on the side         5.20         1.18         15.60           3         100         Standard         2% Calcium Chloride on the side         5.20         1.18         15.60           4         Summary         Preflush:         BBI         10.00         Type:         FRESH WATER           reakdown         MAXIMUM         1.600 PSI         Load & Bkdn: Gal - BBI         N/A         Pad:Bbl -Gal         N/A           eakdown         Lost Returns-h         NO/FULL         Excess /Ret	Other		MAX 8 BPM	AVG	5			
Cement Data           tage         Sacks         Cement         Additives         W/Rg.         Yield         Lbs/Gal           1         440         O-Tex Lite Standard         (6%Gel) 2% Calcium Chloride - 1/4 lb/sk Celloflake - 0.5% C-41P         10.88         1.84         12.70           2         180         Standard         2% Calcium Chloride - 1/4 lb/sk Celloflake         5.20         1.18         15.60           3         100         Standard         2% Calcium Chloride - 0.5%         C-41P         10.88         1.84         12.70           2         180         Standard         2% Calcium Chloride - 1/4 lb/sk Celloflake         5.20         1.18         15.60           3         100         Standard         2%Calcium Chloride on the side         5.20         1.18         15.60           4         MAXIMUM         1.600 PSI         Load & Bkdn: Gal - BBI         N/A         Pad:Bbl -Gal         N/A           4         MAXIMUM         1.600 PSI         Load & Bkdn: Gal - BBI         80         Calc. Disp Bbl         73           4         Actual TOC         SURFACE         Calc. TOC:         SURFACE         Actual Disp.         73.00           9         5 Min.         10 Min         15 Min	Other		F					
tage         Sacks         Cement         Additives         W/Rq.         Yield         Lbs/Gal           1         440         O-Tex Lite Standard         (6%Gel) 2% Calcium Chloride - 1/4 lb/sk Cellflake - 0.5% C-41P         10.88         1.84         12.70           2         180         Standard         2% Calcium Chloride - 1/4 lb/sk Cellflake         5.20         1.18         15.60           3         100         Standard         2% Calcium Chloride on the side         5.20         1.18         15.60           3         100         Standard         2% Calcium Chloride on the side         5.20         1.18         15.60           4         Actual Tope:         Preflush:         BBI         10.00         Type:         FRESH WATER           reakdown         MAXIMUM         1,600 PSI         Load & Bkdn: Gal - BBI         N/A         Pad:Bbi -Gal         N/A           Lost Returns-N         NO/FULL         Excess /Return BBI         60         Calc.Disp Bbi         73           verage         Bump Plug PSI:         980         Final Circ.         PSI:         350         Disp:Bbi         73.00           rotal Volume         BBI         265.02         Total Volume         182.0         Total Volume         265.02 <t< td=""><td>Other</td><td></td><td>reet 42</td><td>Reason SHOL</td><td></td><td></td></t<>	Other		reet 42	Reason SHOL				
tage         Sacks         Cement         Additives         W/Rq.         Yield         Lbs/Gal           1         440         O-Tex Lite Standard         (6%Gel) 2% Calcium Chloride - 1/4 lb/sk Cellflake - 0.5% C-41P         10.88         1.84         12.70           2         180         Standard         2% Calcium Chloride - 1/4 lb/sk Cellflake         5.20         1.18         15.60           3         100         Standard         2% Calcium Chloride on the side         5.20         1.18         15.60           3         100         Standard         2% Calcium Chloride on the side         5.20         1.18         15.60           4			Cement Data					
Summary         Preflush         10.00         Type:         FRESH WATER           2         180         Standard         2% Calcium Chloride - 1/4 lb/sk Celloflake         5.20         1.18         15.60           3         100         Standard         2% Calcium Chloride - 1/4 lb/sk Celloflake         5.20         1.18         15.60           3         100         Standard         2% Calcium Chloride - 1/4 lb/sk Celloflake         5.20         1.18         15.60           3         100         Standard         2% Calcium Chloride on the side         5.20         1.18         15.60           440         O.Tex Lite Standard         2% Calcium Chloride on the side         5.20         1.18         15.60           3         100         Standard         2% Calcium Chloride on the side         5.20         1.18         15.60           440         O.Tex Lite Standard         2% Calcium Chloride on the side         5.20         1.18         15.60           4400         MAXIMUM         1.600 PSI         Load & Bkdn: Gal - BBI         N/A         Pad:Bbl-Gal         N/A           4400         MAXIMUM         1.600 PSI         Load & Bkdn: Gal - BBI         80         Calc. Disp Bbl         73           73.00         SURFACE         <	Stage Sacks Cement				W/Rg.	Yield Lbs/Gal		
3       100       Standard       2%Calcium Chloride on the side       5.20       1.18       15.60         reflush       Type:       Preflush:       BBI       10.00       Type:       FRESH WATER         MAXIMUM       1.600 PSI       Load & Bkdn:       Gal - BBI       N/A       Pad:Bbl - Gal       N/A         Lost Returns-N       NO/FULL       Excess /Return BBI       60       Calc. Disp Bbl       73         Actual TOC       SURFACE       Calc. TOC:       SURFACE       Actual Disp.       73.00         P       5 Min.       10 Min       15 Min       Cement Slurry: BBI       182.0       182.0         CUSTOMER REPRESENTATIVE       Total Volume       BBI       265.02       182.0       182.0	1 440 O-Tex Lite Standa			ake - 0.5% C-41P	10.88	1.84 12.70		
reflush       Type:       Preflush:       BBI       10.00       Type:       FRESH WATER         maximum       Maximum       1,600 PSI       Load & Bkdn:       Gal - BBI       N/A       Pad:Bbl-Gal       N/A         Lost Returns-N       NO/FULL       Excess /Return BBI       80       Calc. Disp Bbl       73         Actual TOC       SURFACE       Calc. TOC:       SURFACE       Actual Disp.       73.00         P       5 Min.       10 Min       15 Min       Cement Slurry: BBI       182.0       73.00         CUSTOMER REPRESENTATIVE       Total Volume       BBI       265.02       73.00       73.00								
reflush       Type:       Preflush:       BBI       10.00       Type:       FRESH WATER         reakdown       MAXIMUM       1,600 PSI       Load & Bkdn:       Gal - BBI       N/A       Pad:Bbl-Gal       N/A         Lost Returns-N       NO/FULL       Excess / Return BBI       80       Calc. Disp Bbl       73         Actual TOC       SURFACE       Calc. TOC:       SURFACE       Actual Disp.       73.00         P       5 Min.       10 Min       15 Min       Cement Slurry: BBI       182.0       73.00         Total Volume       BBI       265.02       73.00       73.00       73.00	3 100 Standard	2%Calcium Chlor	ride on the side		5.20	1.18 15.60		
Preflush       Preflush:       BBI       10.00       Type:       FRESH WATER         reakdown       MAXIMUM       1,600 PSI       Load & Bkdn:       Gal - BBI       N/A       Pad:Bbi-Gal       N/A         Lost Returns-N       NO/FULL       Excess / Return BBI       80       Calc.Disp Bbi       73         Actual TOC       SURFACE       Calc. TOC:       SURFACE       Actual Disp.       73.00         P       5 Min.       10 Min       15 Min.       Cement Slurry: BBI       182.0       182.0         CUSTOMER REPRESENTATIVE						+		
reflush       Type:       Preflush:       BBI       10.00       Type:       FRESH WATER         reakdown       MAXIMUM       1,600 PSI       Load & Bkdn:       Gal - BBI       N/A       Pad:Bbl-Gal       N/A         Lost Returns-N       NO/FULL       Excess / Return BBI       80       Calc. Disp Bbl       73         Actual TOC       SURFACE       Calc. TOC:       SURFACE       Actual Disp.       73.00         P       5 Min.       10 Min       15 Min       Cement Slurry: BBI       182.0       73.00         Total Volume       BBI       265.02       73.00       73.00       73.00		l	Summary		l			
MAXIMUM       1.600 PSI       Load & Bkdn: Gal - BBI       N/A       Pad:Bb]-Gal       N/A         Lost Returns-N       NO/FULL       Excess /Return BBI       60       Calc. Disp BbI       73         Actual TOC       SURFACE       Calc. TOC:       SURFACE       Actual Disp.       73.00         P       5 Min.       10 Min       15 Min       Cement Slurry: BBI       182.0       73.00         CUSTOMER REPRESENTATIVE			Preflush:			FRESH WATER		
Actual TOC       SURFACE       Calc. TOC:       SURFACE       Actual Disp.       73.00         P       5 Min.       10 Min       15 Min.       Cement Slurry: BBI       182.0       182.0         Total Volume       BBI       265.02       265.02       265.02         CUSTOMER REPRESENTATIVE       Custometric       Custometric       Custometric       Custometric	Breakdown MA				VA Pad:Bbl -			
Bump Plug PSI:         980         Final Circ.         PSI:         350         Disp:Bbl           P         5 Min.         10 Min         15 Min.         Cement Slurry: BBI         182.0           Total Volume         BBI         265.02         265.02				I DBI	FACE Actual Dis			
P    5 Min10 Min15 MinCement Slurry: BBI    182.0       Total Volume     BBI     265.02	Average Bu	mp Plug PSI:	980 Final Circ.	PSI: 3	50 Disp:Bbl	. <u>10.00</u>		
			inCement Slurn					
			l otal Volume	BBI 26	0.02			
		100	7 11					
CUSTOMER REPRESENTATIVE SIGNATURE	OUDTOMED DEDDECENT	ATILIE	X 1.					
	CUSTOMER REPRESENTA	AIIVE	Jun 1	SIGNATURE				
		C	ALLEN GRAMMA					

				·		PROJECT NOME	ER (1288	TIC	RETDATE	03/12/12	
COUNTY	State	OB SUM	MAR	Y		CUSTOMER REP	)			03/12/12	
Comanche	Kansas	Sandridge E	Exp and	Prod		R EMPLOYEE NAM	oger Ba	arbei	r		
LEASE NAME	Well No 1-30H		iate				Johnny	Bree	ze		
EMPNAME	1 001										
Johnny Breeze											
Scott Woods											
Flo Helkena Emmit Brock								+			
Form, Name		:									
				Calle	d Out	On Locatio			itarted		ompleted
Packer Type	Set /		Date	3	/11/2012	3/11/2	012	3	/12/2012	3/	12/2012
Bottom Hole Temp	0 Pres	Depth 5,415'	Time		0800	1330			0229	0	430
Tools	and Accesso		Linic	1		Well I	Data				
Type and Size	Qty	Make			New/Used	Weight		ade	From	To	Max. Allow
Auto Fill Tube	0	IR ID	Casing	1		26.0	7		Surface	5,573	5,000
Insert Float Val Centralizers		IR IR	Liner								<u> </u>
Top Plug		IR	Tubing								
HEAD	1	IR	Drill Pi	pe							
Limit clamp	0	IR	Open I				8 3/4		Surface	5,568	Shots/Ft.
Weld-A Texas Pattern Guide Sh		IR IR	Perfora Perfora								
Cement Basket		İR	Perform	ations							
	Aaterials	A	Hours		cation	Operating	Hours	_	Descrip	tion of Job	
	Density_	9.1 Lb/Gal 8.33 Lb/Gal	Dat 3/1		Hours 15.0	Date 3/11	Hours	<u>s</u>	Interme	diate	
Spacer type resh Wat		8.33	0/1	· +	10.0		1				
Spacer type Caustic	BBL. 10										
Acid Type	Gal.	_%									
Acid Type Surfactant	Gal	—% ———						-			
NE Agent	Gal.	ln									
Fluid Loss	Gal/Lb	In									
Gelling Agent	Gal/Lb Gal/Lb	In						_			
	Gal/Lb		Total		15.0	Total	4.0	_			
			-								
Perfpac Balls			MAX		5000	Pr AVG.	essures 30	0			
Other			IVIAA		5000		Rates in				
Other			MAX		8	AVG	5	5			
Other							t Left in F		r.		
Other			Feet		91	Reason	SHOE .	NIOL	1		
			0	ement	Data						
Stage Sacks	Cement	1	Additive		Dala				W/Rg	. Yield	Lbs/Gal
1 200 50/50 F	OZ PREMIUM	4% Gel - 0.4% C-	-12 - 0.1%	C-37 -	0.5% C-41P -	2 lb/sk Phe	noseal		6.77		13.60
2 0	0								0 0.00	0.00	0.00
3 0	0								0.00	0.00	0.00
				mman							
Preflush 1			AUSTIC 5,000 PSI		reflush:	BBI Col PRI	20. N/		Type:		WATER
Breakdown			NO/FULL		oad & Bkdn: xcess /Returi		N/		Pad:Bb Calc.Di		210
	Actu	al TOC	4,245	C	alc. TOC:		4,2	45	Actual [	Disp.	210.00
Average	Bum 10 M	p Plug PSI:	980 Min		inal Circ. ement Slurry	PSI:	54		Disp:Bb		
	1010	10 10			otal Volume	BBI	281		_		
	1		2			1					
			1	1		-					
CUSTOMER REF	RESENTA		X	20	all						
	and the second	-//		-		SIGNATURE					
		$\mathcal{C}$									

COUNTY	JOB STATE COMPANY	SUMMARY	SO CUSTOMER RE	K1316	INCKET DATE	03/21/12	2	
Comanche	KANSAS San	Iridge Exp and Prod	1	Felix Ortiz Jr.				
LEASE NAME Larry	Well No. JOB TYPE 1-30H Mi	sc Pumping	EMPLOYEE NA	ME				
EMPNAME			I	Louis A	iney			
Louis Arney Jason Jones								
Jason Jones								
Cheryl Newton							_	
Form. Name	Type:	J						
Packer Type	Set At5,5	Called Out	On Locati	on Ja	b Started	Job C	omple	
Bottom Hole Temp.	0 Pressure	58' Date 3/20/20	2 3/21/2	2012	3/21/2012	3/	21/20	
Retainer Depth	Total Depth	9,527' Time 23:00	08:0		16:55	1	8:55	
Type and Size	and Accessories	Nov	Used Weight					
Auto Fill Tube	0 IR	Casing	11.6#	Size Grad	E From Surface	<u>To</u> 9,527'	Max 2	
Insert Float Val	0 IR	Liner						
Centralizers Top Plug	0 IR 0 IR	Liner Tubing						
HEAD	0 IR	Drill Pipe						
Limit clamp	0 IR	Open Hole		6 1/8"	Surface	9,527'	Sh	
Weld-A Texas Pattern Guide Sh		Perforations						
Cement Basket		Perforations Perforations						
Mud Type WBM	Materials	Hours On Location	Operating	Hours	Descrip	tion of Job		
Disp. Fluid Fresh W	ater Density 8.33	_b/Gal <u>Date Hours</u> _b/Gal <b>3/21 11.0</b>	<u>Date</u> 3/21	Hours 2.0	- Misc Pu	Imping		
Spacer type	BBL							
Spacer type	_BBL%							
Acid Type	_Gal%		-					
Surfactant			_					
Fluid Loss	_Gal In Gal/Lb In		-					
Gelling Agent	Gal/Lb In Gal/Lb In							
Fric. Red	Gal/Lb In Gal/Lb In	Total 11.0	Total	2.0				
					J			
Perfpac Balls	Qty	MAX 2,000 PS	Pr	essures				
Other			Average	1500 Rates in BF	PM			
Other		MAX 5 BPM	AVG	4				
Other Other		Feet 0		t Left in Pip	e			
			Reason					
01 10 / 1		Cement Data						
Stage Sacks	Cement	Additives			W/Rq		Lb	
2 0	0				0 0.00	0.00	0	
3 0	0				0 0.00	0.00	0	
		Summany						
Preflush	Type;	Summary Preflush:	BBI	0.00	Type:		0	
Breakdown	MAXIMUM Lost Returns-N	Load & Bl	dn: Gal - BBI	N/A	Pad:Bbl	-Gal	N	
	Actual TOC	Excess /F	teturn BBI	N/A	Calc.Dis		0.00	
Average	Frac. Gradient 10 Min	Treatmen	: Gal - BBI		Disp:Bb		5.5	
		Cement S	lurry: BBI me BBI	0.0				
CUSTOMER REP	I	1 halt+	-1					

