Confidentiality Requested:
☑ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1217712

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 # 34192
Name: SandRidge Exploration and Production LLC
Address 1: 123 ROBERT S. KERR AVE
Address 2:
City: OKLAHOMA CITY State: OK Zip: 73102 + 6406
Contact Person: Tiffany Golay
Phone: (405) 429-6543
CONTRACTOR: License # 34600
Name: Horizon Energy Services, LLC
Wellsite Geologist: Hanna Thornberg
Purchaser:

Designate Type of Completion:

☑ New Well ☐ Re-Entry ☐ Workover

☑ Oil ☐ WSW ☐ SWD ☐ SIOW
☐ Gas ☐ D&A ☐ ENHR ☐ SIGW
☐ OG ☐ GSW ☐ Temp. Abd.
☐ CM *(Coal Bed Methane)*
☐ Cathodic ☐ Other *(Core, Expl., etc.)*:

If Workover/Re-entry: Old Well Info as follows:

Operator:
Well Name:
Original Comp. Date: Original Total Depth:

☐ Deepening ☐ Re-perf. ☐ Conv. to ENHR ☐ Conv. to SWD
☐ Plug Back ☐ Conv. to GSW ☐ Conv. to Producer

☐ Commingled Permit #:
☐ Dual Completion Permit #:
☐ SWD Permit #:
☐ ENHR Permit #:
☐ GSW Permit #:

4/23/2014	5/19/2014	6/10/2014
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-191-22731-01-00
Spot Description:
S2 - N2 - N2 - NE Sec. 30 Twp. 34 S. R. 4 ☐ East ☑ West
370 Feet from ☑ North / ☐ South Line of Section
1320 Feet from ☑ East / ☐ West Line of Section

Footages Calculated from Nearest Outside Section Corner:
☑ NE ☐ NW ☐ SE ☐ SW

GPS Location: Lat: *(e.g. xx.xxxxx)* , Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Sumner
Lease Name: Misak 3404 Well #: 1-30H
Field Name:
Producing Formation: Mississippian
Elevation: Ground: 1214 Kelly Bushing: 1234
Total Vertical Depth: 9085 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 526 Feet
Multiple Stage Cementing Collar Used? ☐ Yes ☑ No
If yes, show depth set: Feet
If Alternate II completion, cement circulated from:
feet depth to: w/ sx cmt.

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)

Chloride content: 300 ppm Fluid volume: 5995 bbls
Dewatering method used: Hauled to Disposal

Location of fluid disposal if hauled offsite:

Operator Name: SandRidge Expl. and Prod., LLC
Lease Name: Bobek 3404 3-21H License #: 34192
Quarter SE Sec. 16 Twp. 34 S. R. 4 ☐ East ☑ West
County: Sumner Permit #: 15-191-22743-01-00

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: 08/20/2014
☑ **Confidential Release Date:** 08/19/2016
☑ **Wireline Log Received**
☐ **Geologist Report Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** NAOMI JAMES **Date:** 08/20/2014

[redacted] 1217712

Operator Name: SandRidge Exploration and Production LLC Lease Name: Misak 3404 Well #: 1-30H

Sec. 30 Twp. 34 S. R. 4 ☐ East ☑ West County: Sumner

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 ☐ Yes ☑ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☐ Yes ☑ No

Cores Taken ☐ Yes ☑ No

Electric Log Run ☑ Yes ☐ No

List All E. Logs Run:

Array Induction Gamma Ray Memory Log
Spectral Density Dual Spaced Neutron Memory Log

☐ Log Formation (Top), Depth and Datum ☐ Sample

Name	Top	Datum
Base Heebner	3081	
Lansing	3412	
Cottage Grove	3790	
Oswego	4151	
Cherokee	4295	
Verdigris	4333	
Miss Unconformity	4591	

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
Conductor	24	20	75	103	Basin Services 10 Sack Grout	18	None
Surface	12.25	9.63	36	526	Schlumberger Class C	160	2% CaCl2; .13 lb/sk LCM
Intermediate	8.75	7	26	5192	Schlumberger Class H	360	See attached cemet ticket

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
___ Perforate ___ 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 RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record *(Amount and Kind of Material Used)*	Depth
Attached	Attached	Attached	Attached

TUBING RECORD: Size: Set At: Packer At: Liner Run: ☐ Yes ☐ No

Date of First, Resumed Production, SWD or ENHR. 6/17/2014

Producing Method: ☐ Flowing ☑ Pumping ☐ Gas Lift ☐ Other *(Explain)* _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS:
☐ Vented ☐ Sold ☐ Used on Lease
(If vented, Submit ACO-18.)

METHOD OF COMPLETION:
☐ Open Hole ☐ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*
☐ Other *(Specify)* _____

PRODUCTION INTERVAL:
_____
_____

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Misak 3404 1-30H
Doc ID	1217712

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
	used frac point system; no wireline perforating necessary	1500 gals 15% HCL Acid, 2653 bbls Fresh Slickwater, Running TLTR 2688 bbls	8978
		1500 gals 15% HCL Acid, 2404 bbls Fresh Slickwater, Running TLTR 5092 bbls	8799
		1500 gals 15% HCL Acid, 2521 bbls Fresh Slickwater, Running TLTR 7613 bbls	8617
		1500 gals 15% HCL Acid, 2513 bbls Fresh Slickwater, Running TLTR 10126 bbls	8347
		1500 gals 15% HCL Acid, 2453 bbls Fresh Slickwater, Running TLTR 12579 bbls	8203
		1500 gals 15% HCL Acid, 2386 bbls Fresh Slickwater, Running TLTR 14965 bbls	8012
		1500 gals 15% HCL Acid, 2396 bbls Fresh Slickwater, Running TLTR 17361 bbls	7822
		1500 gals 15% HCL Acid, 2364 bbls Fresh Slickwater, Running TLTR 19725 bbls	7634

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Misak 3404 1-30H
Doc ID	1217712

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
		1500 gals 15% HCL Acid, 2317 bbls Fresh Slickwater, Running TLTR 22042 bbls	7445
		1500 gals 15% HCL Acid, 2399 bbls Fresh Slickwater, Running TLTR 24441 bbls	7255
		1500 gals 15% HCL Acid, 2467 bbls Fresh Slickwater, Running TLTR 26908 bbls	7070
		1500 gals 15% HCL Acid, 2458 bbls Fresh Slickwater, Running TLTR 29366 bbls	6794
		1500 gals 15% HCL Acid, 2320 bbls Fresh Slickwater, Running TLTR 31686 bbls	6650
		1500 gals 15% HCL Acid, 2331 bbls Fresh Slickwater, Running TLTR 34017 bbls	6464
		1500 gals 15% HCL Acid, 2367 bbls Fresh Slickwater, Running TLTR 36384 bbls	6276
		1500 gals 15% HCL Acid, 2360 bbls Fresh Slickwater, Running TLTR 38744 bbls	6132

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Misak 3404 1-30H
Doc ID	1217712

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
		1500 gals 15% HCL Acid, 2175 bbls Fresh Slickwater, Running TLTR 40919 bbls	5895
		1500 gals 15% HCL Acid, 2233 bbls Fresh Slickwater, Running TLTR 43152 bbls	5705
		1500 gals 15% HCL Acid, 2055 bbls Fresh Slickwater, Running TLTR 45207 bbls	5519
		1500 gals 15% HCL Acid, 2378 bbls Fresh Slickwater, Running TLTR 47585 bbls	5330

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Misak 3404 1-30H
Doc ID	1217712

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	24	20	75	103	Basin Services 10 Sack Grout	18	None
Surface	12.25	9.63	36	526	Schlumberger Class C	160	2% CaCl2; .13 lb/sk LCM
Intermediate	8.75	7	26	5192	Schlumberger Class H	360	See attached cemet ticket

BASIN SERVICES, LLC
P O BOX 4268
ABILENE, TX 79608-4268
Phone # (325)690-0053
Fax # (325)698-0055

TICKET

TICKET NUMBER: WY-271-1
TICKET DATE: 04/26/2014

ELECTRONIC

SANDRIDGE ENERGY
***** BILL IN ADP!! *****
123 ROBERT S KERR AVE
OKLAHOMA CITY, OK 73102-6406

YARD: WY WAYNOKA OK
LEASE: Misak 3404
WELL#: 1-30H
RIG #: Horizon 15
Co/St: SUMNER, KS

DESCRIPTION	QUANTITY	RATE	AMOUNT
4/24-26/2014 DRILLED 30" CONDUCTOR HOLE			
4/24-26/2014 20" CONDUCTOR PIPE (.250 WALL)			
4/24-26/2014 6' X 6' CELLAR TINHORN WITH PROTECTIVE RING			
4/24-26/2014 DRILL & INSTALL 6' X 6' CELLAR TINHORN			
4/24-26/2014 DRILLED 20" MOUSE HOLE (PER FOOT)			
4/24-26/2014 16" CONDUCTOR PIPE (.250 WALL)			
4/24-26/2014 MOBILIZATION OF EQUIPMENT & ROAD PERMITTING FEE			
4/24-26/2014 WELDING SERVICES FOR PIPE & LIDS			
4/24-26/2014 PROVIDED EQUIPMENT & LABOR TO ASSIST IN PUMPING CONCRETE			
4/24-26/2014 PROVIDED METAL LIDS (1 FOR CONDUCTOR & 2 FOR MOUSEHOLE PIPE)			
4/24-26/2014 18 YDS OF 10 SACK GROUT			
4/24-26/2014 TAXABALE ITEMS			5,880.00
4/24-26/2014 BID - TAXABLE ITEMS			11,370.00

Sub Total:	17,250.00
Tax SUMNER COUNTY (6.65 %):	391.02
TICKET TOTAL:	$ 17,641.02

I, the undersigned, acknowledge the acceptance of the above listed goods and/or services.

Approved Signature _____

Original

Schlumberger

Service Contract Receipt
SCHLUMBERGER TECHNOLOGY CORPORATION

Service Contract Number: CXIR-00053

Invoice Mailing Address: SANDRIDGE ENERGY INC. - FOR ELECTRONIC INVOICING ONLY (EDI) 123 ROBERT S. KERR AVENUE OKLAHOMA CITY OK 73102-6406 United States	**Left District**	Date: 02-May-2014	Time: 9:00 AM
	Arrive Location	Date: 02-May-2014	Time: 1:00 PM
	Start Job	Date: 02-May-2014	Time: 5:00 PM
	Complete Job	Date: 02-May-2014	Time: 6:00 PM
	Leave Location	Date: 02-May-2014	Time: 7:00 PM
	Arrived District	Date: 02-May-2014	Time: 10:00 PM
	Service Description	Cementing Primary, Primary Surface	

Customer PO	**Contract**	**Well Name & Number** MISAK -3404- 1-30 H	**Field** GERBERDING
AFE DC13786	**Cust Ref**	**County / Parish / Block / Borough** Sumner	**State / Province** KS
Customer or Authorized Representative Tim Mills		**Schlumberger Location** El Reno, OK	**Legal Location**
API / UWI 15191227310100	**Pricebook** B0JS / WSV_GEOREF_USL_2011_USD_Pressure_Pumping_US_		**Rig** HORIZON #15

Service Instructions:

To provide personal and equipment to cement the 9.63 surface casing safely with 160 sks poz:c lead and 110sks class c tail cement as per customers request.

THE ESTIMATED CHARGES AND DATA SHOWN BELOW ARE SUBJECT TO CORRECTION BY SCHLUMBERGER

Item	Description	Quantity	UOM	Price	Discount	Amount
Products						
56702095	Plug, Cementing Top Plastic 9.625 in	1	EA	500.00	47.00%	265.00
D020	Bentonite Extender	835	LB	0.50	47.00%	221.27
D035-CF	LITEPOZ 3 Extender	58	CF	9.20	47.00%	282.81
D130	Polyester Flake	35	LB	4.40	47.00%	81.62
D903	Cement, Class C	214	CF	22.95	47.00%	2,602.99
S001	Calcium Chloride 77pct concentration	278	LB	1.44	47.00%	212.17
TP110	Sugar	200	LB	3.00	47.00%	318.00
				Products Subtotal:		**7,516.72**
				Discount:		**3,532.86**
				Products Total:		**3,983.86**
Services						
48019000	Bulk Unit, Per Hr on location	16	HR	115.00	47.00%	975.20
48601000	Cement Plug Container	1	JOB	556.40	47.00%	294.89
49100000	Cement Blending Charge	292	CF	2.43	47.00%	376.07
49102000	Transportation, Cement Ton-mile	1280	MI	2.16	47.00%	1,465.34
59200002	Transportation, Mileage Heavy Vehicles	100	MI	5.91	47.00%	313.23
59200005	Transportation, Mileage Light Vehicles	100	MI	3.47	47.00%	183.91
59697004	CemCAT Monitoring System	1	JOB	941.60	47.00%	499.05
102871020	Pump, Casing Cement 0-2000 ft	1	EA	2,396.80	47.00%	1,270.30
102946000	Fuel Surcharge (non-discounted)	4	EA	450.00		1,800.00
107138100	Circulating Equipment before job	1	EA	1,498.00	25.00%	1,123.50
107264001	Regulatory Conformance Charge	4	EA	364.87		1,459.48
				Services Subtotal:		**14,904.64**
				Discount:		**5,143.67**
				Services Total:		**9,760.97**

Total (Before Discount):	**22,421.36**		
Discount:	**8,676.53**		
Special Discount:	**0.00**	**Estimated Total (USD):**	**13,744.83**

Original

Schlumberger

Service Contract Receipt

SCHLUMBERGER TECHNOLOGY CORPORATION

Service Contract Number
CXIR-00054

Invoice Mailing Address:		Left District	Date: 10-May-2014	Time: 6:00 PM
SANDRIDGE ENERGY INC. - FOR ELECTRONIC INVOICING ONLY (EDI)		Arrive Location	Date: 10-May-2014	Time: 10:00 PM
		Start Job	Date: 11-May-2014	Time: 8:00 AM
123 ROBERT S. KERR AVENUE		Complete Job	Date: 11-May-2014	Time: 9:00 AM
		Leave Location	Date: 11-May-2014	Time: 10:00 AM
OKLAHOMA CITY	OK	Arrived District	Date: 11-May-2014	Time: 5:00 PM
73102-6406	United States	Service Description	Cementing Primary, Primary Intermediate	

Customer PO	Contract	Well Name & Number	Field
		MISAK -3404- 1-30 H	GERBERDING
AFE	**Cust Ref**	**County / Parish / Block / Borough**	**State / Province**
DC 13786		Sumner	KS
Customer or Authorized Representative		**Schlumberger Location**	**Legal Location**
Sandridge Energy Inc. Representative		El Reno, OK	
API / UWI	**Pricebook**		**Rig**
15191227310100	B0JS / WSV_GEOREF_USL_2011_USD_Pressure_Pumping_US_		Horizon 15

Service Instructions:

THE ESTIMATED CHARGES AND DATA SHOWN BELOW ARE SUBJECT TO CORRECTION BY SCHLUMBERGER

Item	Description	Quantity	UOM	Price	Discount	Amount
Products						
56702070	Plug, Cementing Top Plastic 7 in	1	EA	302.00	47.00%	160.06
B306	PSG Polymer Slurry B306	6	GA	105.00	47.00%	333.90
D013	Retarder	66	LB	2.79	47.00%	97.59
D020	Bentonite Extender	872	LB	0.50	47.00%	231.08
D035-CF	LITEPOZ 3 Extender	136	CF	9.20	47.00%	663.14
D042	KOLITE Lost Circulation Additive	520	LB	0.99	47.00%	272.84
D065	TIC Dispersant	22	LB	7.86	47.00%	91.65
D079	Chemical Extender	44	LB	3.05	47.00%	71.13
D112	FLAC Fluid Loss Additive	132	LB	15.20	47.00%	1,063.39
D909	Cement, Class H	231	CF	24.13	47.00%	2,954.24
				Products Subtotal:		**11,205.69**
				Discount:		**5,266.67**
				Products Total:		**5,939.02**
Services						
48019000	Bulk Unit, Per Hr on location	16	HR	115.00	47.00%	975.20
48601000	Cement Plug Container	1	JOB	556.40	47.00%	294.89
49100000	Cement Blending Charge	362	CF	2.43	47.00%	466.22
49102000	Transportation, Cement Ton-mile	822	MI	2.16	47.00%	941.03
59200002	Transportation, Mileage Heavy Vehicles	100	MI	5.91	47.00%	313.23
59200005	Transportation, Mileage Light Vehicles	100	MI	3.47	47.00%	183.91
59697004	CemCAT Monitoring System	1	JOB	941.60	47.00%	499.05
102871055	Pump, Casing Cement 5001-5500 ft	1	EA	3,531.00	47.00%	1,871.43
102946000	Fuel Surcharge (non-discounted)	3	EA	450.00		1,350.00
107138100	Circulating Equipment before job	1	EA	1,498.00	25.00%	1,123.50
107264001	Regulatory Conformance Charge	3	EA	364.87		1,094.61
48019000	Bulk Unit, Per Hr on location	14	HR	115.00	35.00%	1,046.50
48020000	Pump, Cement Add Hr	7	HR	609.90	35.00%	2,775.04
102476000	Service Supervisor/Field Engineer	3	HR	112.35	35.00%	219.08
102476001	Equipment Operator/Service Technician	6	HR	90.95	35.00%	354.70
				Services Subtotal:		**21,166.84**
				Discount:		**7,658.45**
				Services Total:		**13,508.39**

Total (Before Discount):	**32,372.53**		
Discount:	**12,925.12**		
Special Discount:	**0.00**	**Estimated Total (USD):**	**19,447.41**

Directional Survey Calculations	Measured Depth (ft)	Sub-Sea Incl. (deg)	Vertical Azim. (ft)	True Vert Depth (ft)	Northings (+) Southings (-) (ft)	Eastings (+) Westings (-) (ft)	Vert Section (ft)	DLS deg/100' (deg)	FNL	FSL	FWL	FEL
SHL	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	363	4919	3983	1320
BHL	9085	90.40	179.60	4537.87	-4573.28	628.90	4616.32	0.00	4948	340	4620	658
Miss Entry	4581	50.69	177.25	4443.99	-105.39	642.77	191.54	10.53	480	4808	4626	677
Top Perf	5192	88.91	178.39	4587.26	-683.70	642.05	764.42	1.29	1058	4229	4627	673
Bottom Perf	9085	90.40	179.60	4537.87	-4573.28	628.90	4616.32	0.00	4948	340	4620	658

Survey Points		X	Y					m
	NW Corner XY Coord	2203707	146555		X	Y	North Line slope	0.0180927
	SW Corner XY Coord	2203698	141308	Surface XY	2207690	146264	East Line slope	0.0071779
	NE Corner XY Coord	2209013	146651				South Line slope	0.0092856
	SE Corner XY Coord	2208975	141357				West Line slope	0.0017153

	Measured Depth (ft)	Sub-Sea Incl. (deg)	Vertical Azim. (ft)	True Vert Depth (ft)	Northings (+) Southings (-) (ft)	Eastings (+) Westings (-) (ft)	Vert Section (ft)	DLS deg/100' (deg)	FNL	FSL	FWL	FEL
	0	0.0	0	0	0	0	0	0	363	4919	3983	1320
	250	0.50	301.80	250.00	0.6	-0.9	-0.70	0.20	362	4920	3983	1321
	526	1.40	301.80	525.96	3.0	-4.8	-3.61	0.33	360	4922	3979	1325
	592	1.50	301.80	591.93	3.9	-6.2	-4.68	0.15	359	4923	3977	1326
	775	0.90	346.00	774.90	6.5	-8.6	-7.63	0.58	356	4926	3975	1329
	958	1.20	41.60	957.87	9.4	-7.7	-10.31	0.55	354	4928	3976	1328
	1050	1.40	77.10	1049.85	10.3	-6.0	-11.03	0.89	353	4929	3978	1326
	1141	1.90	74.00	1140.81	11.0	-3.4	-11.35	0.56	352	4930	3980	1324
	1232	3.80	78.30	1231.69	12.0	1.0	-11.77	2.10	351	4931	3984	1319
	1325	4.90	81.70	1324.43	13.2	7.9	-12.02	1.21	350	4932	3991	1312
	1417	6.00	79.30	1416.01	14.7	16.5	-12.29	1.22	349	4933	4000	1304
	1511	7.10	75.80	1509.39	17.0	27.0	-13.19	1.24	347	4936	4010	1293
	1606	8.00	75.70	1603.57	20.1	39.1	-14.60	0.95	344	4939	4023	1281
	1701	8.70	76.60	1697.56	23.4	52.5	-16.05	0.75	341	4942	4036	1268
	1795	9.50	83.50	1790.38	25.9	67.1	-16.57	1.44	338	4944	4051	1253
	1890	11.10	80.70	1883.85	28.3	83.9	-16.63	1.76	336	4946	4067	1236
	1985	11.70	76.70	1976.97	32.0	102.3	-17.80	1.04	333	4950	4086	1218
	2080	13.00	72.40	2069.78	37.4	121.9	-20.55	1.68	328	4955	4105	1199
	2174	12.30	68.50	2161.49	44.3	141.3	-24.72	1.17	321	4962	4125	1179
	2269	12.50	72.00	2254.28	51.2	160.5	-28.94	0.82	315	4969	4144	1160
	2364	13.80	71.00	2346.79	58.0	181.0	-32.97	1.39	308	4975	4164	1140
	2458	14.90	72.10	2437.85	65.4	203.1	-37.27	1.21	301	4982	4186	1118
	2552	15.40	69.80	2528.59	73.4	226.3	-42.07	0.83	294	4990	4210	1094
	2647	14.00	67.30	2620.48	82.2	248.7	-47.74	1.62	285	4999	4232	1072
	2741	13.40	66.60	2711.80	90.9	269.2	-53.60	0.66	277	5007	4253	1052
	2836	13.60	69.80	2804.18	99.2	289.8	-58.96	0.81	269	5015	4273	1031
	2930	13.40	74.40	2895.58	105.9	310.7	-62.81	1.16	263	5022	4294	1010
	3025	12.00	73.80	2988.26	111.6	330.7	-65.75	1.48	257	5027	4314	990
	3120	11.80	77.10	3081.22	116.5	349.7	-68.06	0.75	253	5032	4333	971
	3215	12.00	78.00	3174.17	120.8	368.8	-69.65	0.29	249	5036	4352	952
	3309	11.10	78.00	3266.27	124.7	387.2	-71.04	0.96	245	5040	4371	934
	3404	11.60	76.30	3359.41	128.8	405.5	-72.69	0.63	242	5044	4389	916
	3499	10.60	82.30	3452.64	132.3	423.4	-73.66	1.61	238	5047	4407	898
Top of Tangent	3594	12.80	80.10	3545.66	135.2	442.4	-74.03	2.36	236	5050	4426	879
@ 4966'	3688	12.90	83.60	3637.31	138.2	463.1	-74.16	0.83	233	5053	4446	858
	3783	12.00	86.20	3730.07	140.0	483.5	-73.22	1.12	232	5054	4467	838
	3814	11.50	87.00	3760.42	140.4	489.8	-72.74	1.70	232	5055	4473	831
	3846	12.40	90.80	3791.73	140.5	496.4	-71.96	3.73	232	5055	4480	825
Btm of Tangent	3878	13.70	96.70	3822.90	140.1	503.6	-70.49	5.81	232	5054	4487	818
@ 5166'	3910	15.30	101.80	3853.88	138.7	511.5	-68.13	6.39	234	5053	4495	810
	3941	17.20	103.50	3883.64	136.8	520.0	-65.09	6.32	236	5051	4503	801
	3973	16.00	107.60	3914.31	134.4	528.8	-61.49	5.24	238	5048	4512	792
	4004	15.10	114.30	3944.18	131.4	536.5	-57.51	6.48	241	5045	4520	785
	4036	16.40	117.30	3974.98	127.7	544.4	-52.70	4.79	245	5042	4528	777
	4068	17.90	123.50	4005.55	122.9	552.5	-46.85	7.38	250	5037	4536	769
	4099	19.20	130.30	4034.95	116.9	560.3	-39.92	8.13	256	5031	4544	761
	4131	20.60	138.10	4065.04	109.3	568.1	-31.34	9.37	264	5023	4551	753
	4162	21.70	144.40	4093.96	100.6	575.1	-21.75	8.14	273	5014	4558	746
	4194	23.40	150.00	4123.51	90.3	581.7	-10.63	8.55	283	5004	4565	739
	4225	23.10	151.40	4151.99	79.6	587.7	0.75	2.03	294	4993	4571	733
	4257	23.50	151.00	4181.38	68.6	593.8	12.57	1.34	305	4982	4577	727
	4288	23.30	149.30	4209.84	57.9	599.9	23.98	2.27	316	4971	4583	721
	4320	24.30	152.50	4239.12	46.6	606.2	36.00	5.10	327	4960	4590	714
	4351	26.90	156.30	4267.07	34.5	612.0	48.76	9.92	340	4948	4595	709
	4383	29.80	159.20	4295.23	20.4	617.7	63.47	10.03	354	4934	4601	703
	4415	33.30	162.00	4322.50	4.7	623.2	79.87	11.85	370	4918	4607	697
	4446	37.20	164.10	4347.81	-12.5	628.4	97.53	13.17	387	4901	4612	692
	4478	40.80	167.00	4372.68	-32.0	633.4	117.52	12.61	406	4881	4617	687
	4509	44.20	170.60	4395.53	-52.5	637.5	138.42	13.48	427	4861	4621	682
	4541	47.30	173.90	4417.86	-75.2	640.6	161.33	12.18	450	4838	4624	679
	4573	50.10	176.60	4438.98	-99.2	642.5	185.33	10.80	474	4814	4626	677
	4604	52.40	179.10	4458.39	-123.3	643.4	209.39	9.73	498	4790	4627	676
	4635	55.30	180.00	4476.67	-148.3	643.6	234.21	9.64	523	4765	4627	676
	4666	58.20	180.20	4493.67	-174.3	643.6	259.89	9.37	549	4739	4627	675
	4698	61.10	180.00	4509.83	-201.9	643.5	287.24	9.08	577	4711	4627	675

Measured Depth (ft)	Sub-Sea Incl. (deg)	Vertical Azim. (ft)	True Vert Depth (ft)	Northings (+) Southings (-) (ft)	Eastings (+) Westings (-) (ft)	Vert Section (ft)	DLS deg/100' (deg)	FNL	FSL	FWL	FEL
4730	64.40	180.40	4524.48	-230.3	643.4	315.41	10.37	605	4683	4627	675
4761	67.20	180.60	4537.19	-258.6	643.2	343.38	9.05	633	4654	4627	675
4793	70.70	181.20	4548.68	-288.4	642.7	372.90	11.08	663	4625	4627	675
4824	74.20	182.00	4558.03	-318.0	641.9	402.06	11.56	693	4595	4626	676
4855	76.80	181.90	4565.79	-348.0	640.9	431.63	8.39	723	4565	4625	677
4887	80.00	181.00	4572.22	-379.3	640.1	462.57	10.37	754	4534	4624	677
4918	83.80	181.20	4576.59	-410.0	639.5	492.89	12.27	785	4503	4624	678
4950	87.20	181.00	4579.10	-441.9	638.9	524.40	10.64	817	4471	4623	678
4982	87.50	179.80	4580.58	-473.8	638.7	556.04	3.86	848	4439	4623	678
5013	87.90	179.50	4581.83	-504.8	638.8	586.75	1.61	879	4408	4623	678
5045	87.70	179.30	4583.05	-536.8	639.2	618.48	0.88	911	4376	4624	677
5076	88.00	179.30	4584.22	-567.8	639.6	649.22	0.97	942	4345	4624	677
5108	88.40	179.00	4585.22	-599.8	640.0	680.97	1.56	974	4313	4625	676
5140	88.20	178.80	4586.17	-631.7	640.6	712.74	0.88	1006	4281	4625	675
5228	89.40	178.10	4588.01	-719.7	643.0	800.19	1.58	1094	4193	4628	672
5323	90.40	177.60	4588.18	-814.6	646.6	894.73	1.18	1189	4098	4631	668
5417	91.20	176.30	4586.87	-908.5	651.6	988.40	1.62	1283	4004	4637	662
5537	90.70	175.30	4584.88	-1028.1	660.4	1108.14	0.93	1403	3885	4646	652
5632	94.30	177.30	4580.73	-1122.8	666.5	1202.79	4.33	1498	3790	4652	646
5727	92.80	178.20	4574.85	-1217.6	670.2	1297.16	1.84	1593	3695	4656	641
5821	89.10	178.30	4573.29	-1311.5	673.1	1390.61	3.94	1687	3601	4659	638
5916	89.80	180.30	4574.21	-1406.5	674.3	1484.88	2.23	1782	3506	4660	636
6011	89.80	180.00	4574.54	-1501.5	674.0	1578.96	0.32	1877	3411	4660	635
6106	89.20	181.90	4575.37	-1596.4	672.4	1672.85	2.10	1972	3316	4659	636
6201	88.40	182.40	4577.36	-1691.4	668.9	1766.41	0.99	2067	3221	4655	639
6295	91.70	182.70	4577.27	-1785.2	664.7	1858.87	3.53	2160	3128	4651	643
6390	92.60	183.30	4573.71	-1880.0	659.7	1952.12	1.14	2255	3033	4646	647
6484	91.50	183.00	4570.35	-1973.8	654.6	2044.35	1.21	2349	2939	4641	651
6579	91.00	183.00	4568.28	-2068.7	649.6	2137.65	0.53	2444	2844	4637	656
6674	90.30	182.80	4567.20	-2163.6	644.8	2230.99	0.77	2538	2749	4632	660
6768	90.00	181.70	4566.95	-2257.5	641.1	2323.55	1.21	2632	2655	4628	663
6863	90.40	181.00	4566.62	-2352.5	638.8	2417.34	0.85	2727	2561	4626	664
6958	90.60	180.20	4565.79	-2447.5	637.9	2511.32	0.87	2822	2466	4626	665
7052	90.50	178.90	4564.89	-2541.4	638.6	2604.55	1.39	2916	2372	4626	663
7147	93.20	180.10	4561.82	-2636.4	639.4	2698.72	3.11	3011	2277	4627	662
7241	93.10	179.90	4556.66	-2730.2	639.4	2791.71	0.24	3105	2183	4628	661
7336	92.00	180.80	4552.43	-2825.1	638.8	2885.66	1.50	3200	2088	4627	661
7431	91.90	180.20	4549.20	-2920.1	638.0	2979.61	0.64	3295	1993	4627	661
7525	92.00	180.60	4546.00	-3014.0	637.4	3072.60	0.44	3389	1899	4626	661
7620	91.10	180.10	4543.43	-3109.0	636.8	3166.60	1.08	3484	1804	4626	661
7715	89.10	180.40	4543.26	-3204.0	636.4	3260.67	2.13	3579	1709	4625	661
7810	87.50	180.50	4546.08	-3298.9	635.6	3354.64	1.69	3673	1614	4625	661
7905	87.90	180.90	4549.89	-3393.8	634.5	3448.52	0.60	3768	1519	4624	661
7999	89.50	180.30	4552.03	-3487.8	633.5	3541.49	1.82	3862	1425	4623	662
8093	90.10	181.20	4552.35	-3581.8	632.2	3634.45	1.15	3956	1331	4622	662
8187	93.00	181.40	4549.81	-3675.7	630.1	3727.22	3.09	4050	1237	4620	664
8282	91.70	182.70	4545.92	-3770.6	626.7	3820.74	1.93	4145	1143	4617	666
8377	90.30	181.40	4544.26	-3865.5	623.3	3914.33	2.01	4240	1048	4613	669
8472	89.90	179.90	4544.09	-3960.5	622.2	4008.29	1.63	4335	953	4613	670
8566	89.50	179.10	4544.58	-4054.5	623.1	4101.53	0.95	4429	859	4614	668
8661	92.40	179.70	4543.01	-4149.5	624.1	4195.76	3.12	4524	764	4615	666
8756	93.00	179.50	4538.54	-4244.4	624.7	4289.87	0.67	4619	669	4615	665
8850	89.20	178.80	4536.73	-4338.3	626.1	4383.14	4.11	4713	575	4617	663
8945	89.30	179.30	4537.97	-4433.3	627.7	4477.46	0.54	4808	480	4619	661
9036	90.40	179.60	4538.21	-4524.3	628.6	4567.73	1.25	4899	389	4620	659
9085	90.40	179.60	4537.87	-4573.3	628.9	4616.32	0.00	4948	340	4620	658

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	5/30/2014
Job End Date:	5/30/2014
State:	Kansas
County:	Sumner
API Number:	15-191-22731-01-00
Operator Name:	SandRidge Energy
Well Name and Number:	Misak 3404 1-30H
Longitude:	-97.78823632
Latitude:	37.06618100
Datum:	NAD27
Federal/Tribal Well:	NO
True Vertical Depth:	4,538
Total Base Water Volume (gal):	1,884,960
Total Base Non Water Volume:	0

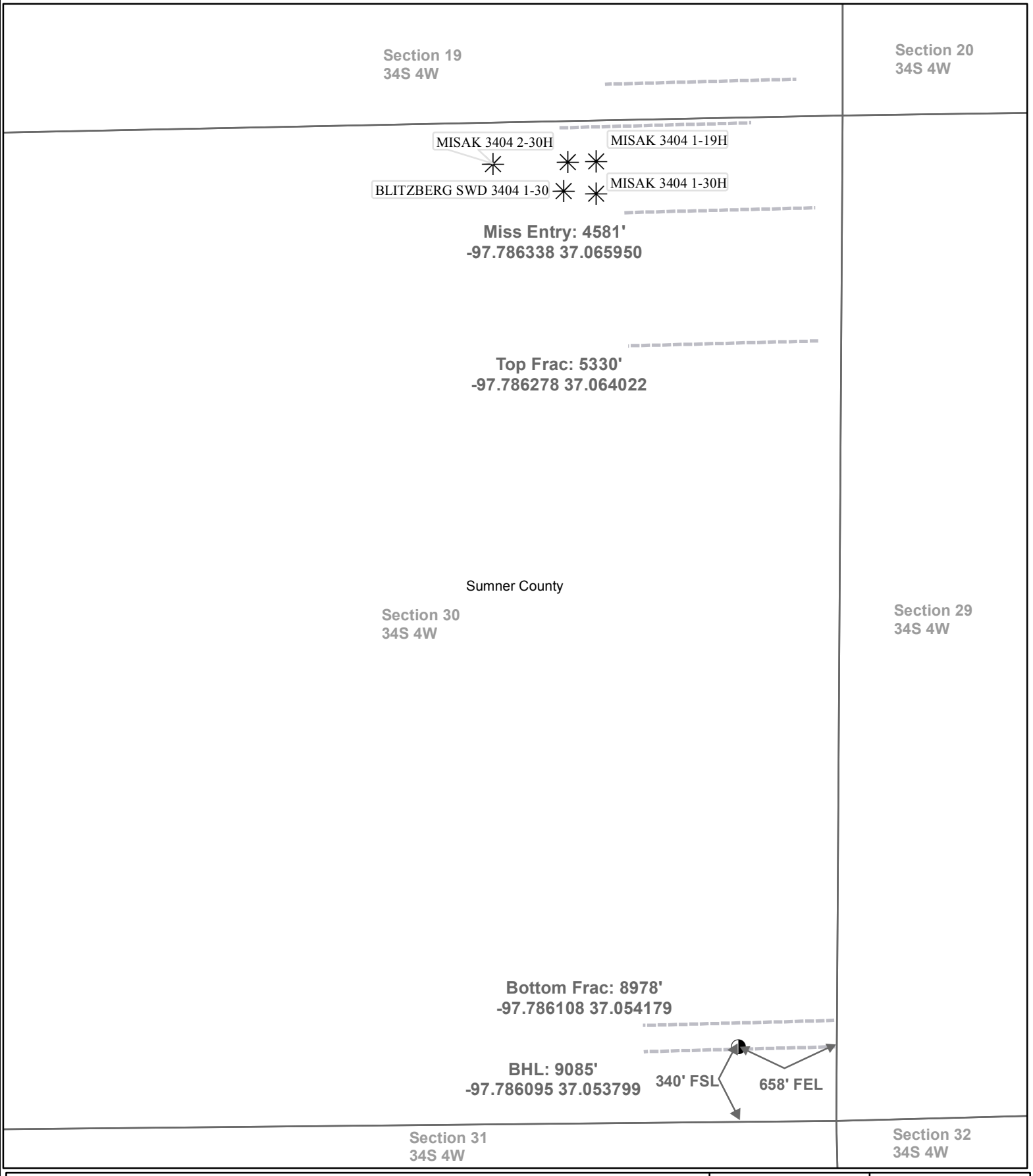
Hydraulic Fracturing Fluid Composition:

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments
Water	Archer	Carrier/Base Fluid					
			Water	7732-18-5	100.00000	93.81970	None
Sand (Proppant)	Archer	Proppant					
			Silica Substrate	NA	100.00000	4.96416	None
DiKlor	Sabre Energy Services	Oxidizer					
			Water	7732-18-5	99.90000	0.28382	
			Chlorine Dioxide	10069-04-4	0.40000	0.00039	
Hydrochloric Acid (15%)	Archer	Acidizing					
			Hydrochloric Acid	7647-01-0	15.00000	0.12042	None
			NONYL PHENOL, 4 MOL	104-40-5	10.00000	0.00480	None
			Methyl Alcohol	67-56-1	80.00000	0.00099	None
			thiourea-formaldehyde copolymer	68527-49-1	15.00000	0.00019	None
AIC	Archer	Liquid Acid Iron Control					
			Acetic Acid	64-19-7	50.00000	0.00220	None
			Citric Acid	77-92-9	30.00000	0.00132	None
Chemflush	Archer	Enviro-Friendly Chemical Flush					
			Hydrotreated Petroleum Distillate	64742-47-8	99.00000	0.00225	None

			Alcohol Ethoxylate Surfactants	NA	10.00000	0.00023	None
Ingredients shown above are subject to 29 CFR 1910.1200(i) and appear on Material Safety Data Sheets (MSDS). Ingredients shown below are Non-MSDS.							
		Other Chemicals					
			Water	7732-18-5		0.03751	
			WATER	7732-18-5		0.02883	
			TRADE SECRET	N/A		0.01922	
			Aliphatic Hydrocarbon	64742-47-8		0.01876	
			Anionic Polymer	N/A		0.01876	
			Water	7732-18-5		0.00994	
			ISOPROPANOL	67-63-0		0.00480	
			METHANOL	67-56-1		0.00480	
			Polyol Ester	N/A		0.00313	
			Oxyalkylated Alcohol	68002-97-1		0.00313	
			Acrylic Polymer	28205-96-1		0.00166	
			Sodium Salt of Phosphate Ester	68131-72-6		0.00166	
			Water	7732-18-5		0.00154	
			Polyglycol Ester	N/A		0.00063	
			Alcohol Ethoxylate Surfactants	N/A		0.00019	
			n-olefins	N/A		0.00010	
			Propargyl Alcohol	107-19-7		0.00007	
			Tetrasodium Ethylenediaminetetraacetate	64-02-8		0.00006	
			Surfactant	N/A			
			Buffer	N/A			
			Acetic Acid	64-19-7			
			Water	7732-18-5			
			Cinnamic Aldehyde	104-55-2			

* Total Water Volume sources may include fresh water, produced water, and/or recycled water
** Information is based on the maximum potential for concentration and thus the total may be over 100%

Note: For Field Development Products (products that begin with FDP), MSDS level only information has been provided.
Ingredient information for chemicals subject to 29 CFR 1910.1200(i) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)



SANDRIDGE
THE POWER OF US

Actual BH Location

SandRidge Wells

Perf

Sections

Actual Bottom-Hole Location of Misak 3404 1-30H
T&R: 34S 4W
Section: 30, 658' FEL & 340' FSL
-97.786095 37.053799

1 in = 667 ft

0 500 1,000 2,000 Feet

N

Draftsman: Dory Deines	Draft Date: 8/19/2014
Drawing Name/Number: Addendum_Misak 3404 1-30H.mxd	
Coordinate System: NAD 1927 State Plane Kansas South FIPS: 1502	