



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1212451
OIL & GAS CONSERVATION DIVISION

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 # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

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 #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite: _____

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East 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: _____

1212451

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. 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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Electric Log Run	<input type="checkbox"/> Yes <input type="checkbox"/> No			
List All E. Logs Run:				

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> 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 / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> 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 <i>(Amount and Kind of Material Used)</i>	Depth

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

Date of First, Resumed Production, SWD or ENHR. _____ 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: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Iris 3120 2-12H
Doc ID	1212451

Tops

Name	Top	Datum
Base Anhydrite	2429	-384
Base Heebner Shale Marker	4119	-2073
Lansing Limestone Group	4294	-2245
Marmaton Limestone Group	4943	-2735
Big Lime	5000	-2761
Oswego Limestones	5017	-2770
Pawnee Limestones	5120	-2810
Cherokee Shale Marker	5188	-2836
Mississippi Unconformity	5574	-2954
Mississippi Limestones	5670	-2968

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Iris 3120 2-12H
Doc ID	1212451

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
4	5613-5615	Kiel Slickwater Frac - see report	5613-9584
4	5716-5718		
4	5796-5798		
4	5910-5912		
5	6090-6092		
5	6180-6182		
5	62444-6246		
5	6305-6307		
5	6370-6372		
5	6457-6459		
5	6514-6516		
5	6610-6612		
5	6677-6679		
5	6722-6724		
5	6818-6820		
5	6900-6902		
5	6993-6995		
5	7061-7063		
5	7114-7116		
5	7190-7192		
5	7265-7267		
5	7361-7363		
5	7440-7432		

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Iris 3120 2-12H
Doc ID	1212451

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
5	7498-7500		
5	7574-7576		
5	7629-7631		
5	7702-7704		
5	7754-7756		
5	7804-7806		
5	7854-7856		
5	7949-7951		
5	8031-8033		
5	8083-8085		
5	8140-8142		
5	8206-8208		
5	8286-8288		
5	8371-8373		
5	8492-8494		
5	8510-8512		
5	8606-8608		
5	8711-8713		
5	8798-8799		
5	8864-8866		
5	8919-8918		
5	8992-8994		
5	9072-9074		
5	9156-9158		

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Iris 3120 2-12H
Doc ID	1212451

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
5	9216-9218		
5	9290-9292		
5	9383-9385		
5	9432-9434		
5	9482-9484		
5	9532-9534		
5	9582-9584		

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	5/6/2014
Job End Date:	5/7/2014
State:	Kansas
County:	Comanche
API Number:	15-033-21750-01-00
Operator Name:	SandRidge Energy
Well Name and Number:	Iris 3120 2-12H
Longitude:	-99.44644000
Latitude:	37.36709000
Datum:	NAD27
Federal/Tribal Well:	NO
True Vertical Depth:	5,040
Total Base Water Volume (gal):	2,497,110
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	Operator	Carrier					
			Water	7732-18-5	100.00000	96.54522	
Sand, Brown (40/70)	Baker Hughes	Proppant					
			Crystalline Silica: Quartz (SiO2)	14808-60-7	100.00000	2.21994	
HCl, 10.1 - 15%	Baker Hughes	Acidizing					
			Water	7732-18-5	85.00000	0.62872	SmartCare Product
			Hydrochloric Acid	7647-01-0	15.00000	0.11095	SmartCare Product
Preferred Garnet RC 40/70	Baker Hughes	Proppant					
			Crystalline Silica (Quartz)	14808-60-7	100.00000	0.23343	
			Castor Oil	8001-79-4	5.00000	0.01167	
FRW-15A, tote	Baker Hughes	Friction Reducer					
			Contains non-hazardous ingredients that are shown in the non-MSDS section of this report.	NA	100.00000	0.08976	SmartCare Product
NE-900, tote	Baker Hughes	Non-emulsifier					
			Methanol	67-56-1	30.00000	0.01372	SmartCare Product
			Nonyl phenyl polyethylene glycol ether	9016-45-9	10.00000	0.00457	SmartCare Product
Scaletrol 7208, 330 gl tote	Baker Hughes	Scale Inhibitor					
			Ethylene Glycol	107-21-1	30.00000	0.00778	

Ferotrol 300L (Totes)	Baker Hughes	Iron Control					
			Citric Acid	77-92-9	60.00000	0.00263	SmartCare Product
CI-27 (260 gal tote)	Baker Hughes	Corrosion Inhibitor					
			Methanol	67-56-1	60.00000	0.00052	
			Polyoxyalkylenes	Trade Secret	30.00000	0.00026	
			Thiourea Polymer	68527-49-1	30.00000	0.00026	
			Fatty Acids	Trade Secret	30.00000	0.00026	
			Propargyl Alcohol	107-19-7	10.00000	0.00009	
			Olefin	Trade Secret	5.00000	0.00004	
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		0.03879	
			Copolymer of Acrylamide and Sodium Acrylate	25987-30-8		0.03590	
			Hydrotreated Light Distillate	64742-47-8		0.02693	
			Copolymer	Trade Secret		0.01829	
			Sorbitan Monooleate	1338-43-8		0.00449	
			Nonyl Phenol Ethoxylate	127087-87-0		0.00449	
			Diethylene Glycol	111-46-6		0.00130	
			Sodium Chloride	7647-14-5		0.00000	
			Formaldehyde	50-00-0		0.00000	
			Calcium Chloride	10043-52-4			
			Potassium Chloride	7447-40-7			
			Polyacrylate	Trade Secret			
			2-Propenoic, Polymer with Sodium Phosphinate, Sodium Salt	71050-62-9			

* 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)



INVOICE

DATE	INVOICE #
3/10/2014	4608

BILL TO
SANDRIDGE ENERGY, INC. ATTN: PURCHASING MANAGER 123 ROBERT S. KERR AVENUE OKLAHOMA CITY, OK 73102

REMIT TO
EDGE SERVICES, INC. PO BOX 609 WOODWARD, OK 73802

COUNTY	STARTING D...	WORK ORDER	RIG NUMBER	LEASE NAME	Terms
COMANCHE, ...	3/7/2014	3507	HORIZON 4	IRIS 3120 2-12 H	Due on rec...

Description

DRILLED 100' OF 30" CONDUCTOR HOLE
 DRILLED 6' OF 76" HOLE
 FURNISHED AND SET 6' X 6' TINHORN CELLAR
 FURNISHED 100' OF 20" CONDUCTOR PIPE
 FURNISHED MUD, WATER, AND TRUCKING
 FURNISHED WELDER AND MATERIALS
 FURNISHED 10 YARDS OF 10 SACK GROUT
 FURNISHED 3 YARDS OF 10 SACK GROUT
 FURNISHED GROUT PUMP
 DRILL MOUSE HOLE
 FURNISHED 25' OF 16" CONDUCTOR PIPE

TOTAL BID \$18,133.27

Sales Tax (6.15%)	\$133.27
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TOTAL	\$18,133.27
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SandRidge Energy
Iris #3120 2-12H
Comanche County, KS.

1.0 Executive Summary

Allied Oil & Gas Services would like to thank you, for the award of the provision of cementing products and services on the well Iris #3120 2-12H Casing.

A pre-job meeting was held to discuss job details, review the safety hazards, potential environmental impact and established emergency procedures.

Allied started the job testing lines to 3000 psi. After a successful test we began the job by pumping 30 bbls of preflush spacer. We then mixed and pumped the following cements:

60 Bbls (240 sacks) of 13.6 ppg Lead slurry:
50:50 Class A:Poz Blend - 1.4 Yield
2.0% Gel
0.4% FL-160
0.1% SA-51

21Bbls (100 sacks) of 15.6 ppg Tail slurry:
Class A - 1.18 Yield
0.8% FL-160
0.2% CD-31

The top plug was then released and displaced with 227 of fresh water. The plug bumped and pressured up to 1600 psi. Pressure was released and floats held.

All real time data is shown on the graph in the attachment section.

Allied Oil & Gas Services remains committed to provide operational excellence and superior product performance. All comments and suggestions are greatly appreciated and help us to continue to provide this level of service.

Again we want to thank you for the opportunity to perform these and your future cementing & acidizing service needs.

Company: Sandridge
Well Name: Iris 3120 2-12H
Legals: Sec: 12 Township: 31S
 Range: 20W
County/State: Comanche KS
Rig Name: Horizon 4

Customer Rep	Position	Directional Driller	MWD Operator
Luis Garza	Company Man	Bill Sneed	Tommy Lewis
Louis Solis	Company Man	Travis Hall	

Iris 2-12H Surveys

Type	M Depth	Incl.	Azimuth	TVD	North	East	V Section	Dogleg	B Rate	T Rate	Clos Azi	Clos Dist
TieInPoint	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0
Survey	920.00	0.60	158.10	919.98	-4.47	1.80	-4.15	0.07	0.07	17.18	158.07	4.82
Survey	1168.00	1.00	173.00	1167.96	-7.82	2.54	-7.36	0.18	0.16	6.01	162.01	8.22
Survey	1421.00	1.10	130.10	1420.92	-11.58	4.67	-10.76	0.31	0.04	16.96	158.04	12.49
Survey	1674.00	1.60	91.30	1673.85	-13.22	10.06	-11.58	0.40	0.20	15.34	142.73	16.61
Survey	1927.00	1.80	36.30	1926.75	-10.10	15.94	-7.62	0.62	0.08	21.74	122.36	18.87
Survey	2177.00	2.30	6.80	2176.60	-1.95	18.86	0.87	0.46	0.20	11.80	95.90	18.96
Survey	2418.00	2.00	337.90	2417.44	6.75	17.85	9.33	0.46	0.12	11.99	69.29	19.08
Survey	2662.00	0.70	233.40	2661.39	9.81	15.05	11.94	0.93	0.53	42.83	56.90	17.96
Survey	2906.00	1.00	220.70	2905.36	7.31	12.46	9.08	0.14	0.12	5.20	59.60	14.45
Survey	3156.00	0.70	209.90	3155.33	4.33	10.28	5.81	0.14	0.12	4.32	67.16	11.15
Survey	3407.00	0.60	263.40	3406.32	2.85	8.21	4.04	0.24	0.04	21.31	70.86	8.69
Survey	3659.00	0.30	284.40	3658.31	2.86	6.26	3.76	0.13	0.12	8.33	65.45	6.88
Survey	3910.00	0.60	224.10	3909.30	2.08	4.71	2.76	0.21	0.12	24.02	66.17	5.15
Survey	4098.00	1.30	85.30	4097.29	1.55	6.15	2.45	0.96	0.37	73.83	75.85	6.34
Survey	4130.00	3.50	68.80	4129.26	1.93	7.42	3.01	7.14	6.88	51.56	75.42	7.67
Survey	4160.00	5.60	63.00	4159.16	2.93	9.58	4.32	7.16	7.00	19.33	72.99	10.02
Survey	4192.00	7.80	55.30	4190.94	4.88	12.76	6.72	7.41	6.88	24.06	69.07	13.66
Survey	4224.00	10.30	54.90	4222.54	7.76	16.88	10.18	7.81	7.81	1.25	65.31	18.58
Survey	4255.00	12.70	55.30	4252.92	11.29	21.95	14.42	7.75	7.74	1.29	62.78	24.68
Survey	4286.00	14.90	55.10	4283.02	15.51	28.02	19.50	7.10	7.10	0.65	61.03	32.03
Survey	4318.00	17.80	55.90	4313.72	20.61	35.45	25.65	9.09	9.06	2.50	59.83	41.01
Survey	4349.00	21.30	57.40	4342.93	26.30	44.12	32.56	11.40	11.29	4.84	59.20	51.36
Survey	4380.00	23.80	59.00	4371.56	32.56	54.23	40.25	8.30	8.06	5.16	59.02	63.25
Survey	4412.00	25.70	58.80	4400.62	39.48	65.70	48.80	5.94	5.94	0.63	59.00	76.65
Survey	4444.00	27.40	58.30	4429.24	46.94	77.90	57.99	5.36	5.31	1.56	58.93	90.95
Survey	4475.00	28.90	57.80	4456.58	54.68	90.31	67.48	4.90	4.84	1.61	58.81	105.57
Survey	4506.00	31.20	58.40	4483.41	62.88	103.49	77.55	7.48	7.42	1.94	58.72	121.10
Survey	4538.00	33.50	59.80	4510.44	71.67	118.18	88.43	7.56	7.19	4.38	58.77	138.21
Survey	4569.00	36.40	61.10	4535.85	80.42	133.63	99.37	9.66	9.35	4.19	58.96	155.96
Survey	4600.00	38.10	62.10	4560.53	89.34	150.14	110.65	5.82	5.48	3.23	59.25	174.71
Survey	4632.00	38.20	63.60	4585.69	98.36	167.72	122.18	2.91	0.31	4.69	59.61	194.43
Survey	4663.00	40.00	64.30	4609.75	106.94	185.28	133.27	5.98	5.81	2.26	60.01	213.93
Survey	4694.00	42.10	64.80	4633.12	115.69	203.67	144.65	6.86	6.77	1.61	60.40	234.23
Survey	4726.00	45.30	65.30	4656.26	125.01	223.71	156.84	10.06	10.00	1.56	60.80	256.27
Survey	4757.00	48.10	64.80	4677.52	134.53	244.16	169.30	9.11	9.03	1.61	61.15	278.77
Survey	4789.00	51.40	64.10	4698.19	145.06	266.19	182.98	10.45	10.31	2.19	61.41	303.15
Survey	4820.00	54.60	63.30	4716.85	156.03	288.38	197.12	10.53	10.32	2.58	61.58	327.88
Survey	4851.00	58.30	63.30	4733.98	167.64	311.46	212.03	11.94	11.94	0.00	61.71	353.71
Survey	4883.00	60.20	63.50	4750.34	179.95	336.05	227.86	5.96	5.94	0.63	61.83	381.20
Survey	4914.00	60.40	62.80	4765.70	192.11	360.07	243.45	2.06	0.65	2.26	61.92	408.11

Iris 2-12H Surveys

Type	M Depth	Incl.	Azimuth	TVD	North	East	V Section	Dogleg	B Rate	T Rate	Clos Azi	Clos Dist
Survey	4946.00	61.50	60.30	4781.24	205.44	384.67	260.29	7.65	3.44	7.81	61.89	436.09
Survey	4977.00	62.70	57.60	4795.75	219.57	408.13	277.74	8.62	3.87	8.71	61.72	463.44
Survey	5009.00	64.30	55.30	4810.03	235.40	431.99	296.94	8.15	5.00	7.19	61.41	491.96
Survey	5041.00	65.20	53.80	4823.68	252.19	455.57	317.05	5.09	2.81	4.69	61.03	520.71
Survey	5072.00	66.10	52.80	4836.46	269.07	478.21	337.10	4.13	2.90	3.23	60.64	548.71
Survey	5103.00	67.20	50.10	4848.75	286.81	500.46	357.95	8.75	3.55	8.71	60.18	576.82
Survey	5134.00	67.40	46.60	4860.71	305.81	521.83	379.91	10.44	0.65	11.29	59.63	604.84
Survey	5166.00	67.20	43.00	4873.07	326.75	542.63	403.71	10.40	0.63	11.25	58.95	633.41
Survey	5197.00	68.00	40.10	4884.89	348.20	561.64	427.74	9.03	2.58	9.35	58.20	660.82
Survey	5229.00	68.20	37.00	4896.82	371.41	580.14	453.44	9.01	0.63	9.69	57.37	688.85
Survey	5260.00	68.80	34.00	4908.19	394.89	596.88	479.15	9.21	1.94	9.68	56.51	715.68
Survey	5292.00	69.90	31.00	4919.47	420.15	612.96	506.52	9.42	3.44	9.38	55.57	743.13
Survey	5323.00	70.70	28.00	4929.93	445.54	627.33	533.76	9.47	2.58	9.68	54.62	769.45
Survey	5355.00	70.70	25.10	4940.50	472.56	640.83	562.48	8.55	0.00	9.06	53.59	796.23
Survey	5387.00	70.80	21.90	4951.06	500.26	652.87	591.66	9.45	0.31	10.00	52.54	822.50
Survey	5419.00	70.50	19.50	4961.66	528.50	663.55	621.18	7.14	0.94	7.50	51.46	848.30
Survey	5450.00	72.70	18.80	4971.44	556.29	673.20	650.09	7.41	7.10	2.26	50.43	873.30
Survey	5482.00	74.60	18.90	4980.45	585.34	683.12	680.29	5.95	5.94	0.31	49.41	899.60
Survey	5513.00	76.10	16.60	4988.29	613.91	692.26	709.90	8.66	4.84	7.42	48.43	925.26
Survey	5545.00	78.40	14.40	4995.35	643.98	700.60	740.88	9.83	7.19	6.88	47.41	951.60
Survey	5577.00	80.60	12.50	5001.18	674.58	707.92	772.23	9.02	6.87	5.94	46.38	977.86
Survey	5609.00	82.20	10.90	5005.97	705.56	714.33	803.81	7.03	5.00	5.00	45.35	1004.03
Survey	5640.00	83.00	7.90	5009.96	735.89	719.35	834.55	9.94	2.58	9.68	44.35	1029.08
Survey	5672.00	83.60	4.80	5013.69	767.47	722.86	866.31	9.80	1.88	9.69	43.29	1054.29
Survey	5703.00	84.00	1.10	5017.04	798.24	724.45	896.97	11.94	1.29	11.94	42.23	1077.97
Survey	5734.00	83.60	359.30	5020.39	829.06	724.56	927.46	5.91	1.29	5.81	41.15	1101.06
Survey	5766.00	83.10	359.60	5024.10	860.84	724.25	958.85	1.82	1.56	0.94	40.07	1124.98
Survey	5797.00	84.10	359.50	5027.55	891.65	724.01	989.28	3.24	3.23	0.32	39.08	1148.58
Survey	5828.00	86.60	359.60	5030.07	922.55	723.77	1019.80	8.07	8.06	0.32	38.12	1172.58
Survey	5860.00	87.60	359.80	5031.69	954.51	723.60	1051.38	3.19	3.12	0.62	37.17	1197.78
Survey	5891.00	87.40	359.50	5033.04	985.48	723.41	1081.98	1.16	0.65	0.97	36.28	1222.49
Survey	5923.00	87.00	359.50	5034.60	1017.44	723.13	1113.54	1.25	1.25	0.00	35.40	1248.24
Survey	5955.00	86.80	359.10	5036.33	1049.39	722.74	1145.08	1.40	0.62	1.25	34.56	1274.19
Survey	6061.00	89.30	359.50	5039.94	1155.31	721.45	1249.64	2.39	2.36	0.38	31.98	1362.07
Survey	6153.00	89.70	359.60	5040.74	1247.30	720.73	1340.50	0.45	0.43	0.11	30.02	1440.56
Survey	6244.00	90.30	357.00	5040.74	1338.25	718.03	1430.04	2.93	0.66	2.86	28.22	1518.71
Survey	6336.00	90.80	354.10	5039.86	1429.96	710.89	1519.67	3.20	0.54	3.15	26.43	1596.92
Survey	6428.00	89.40	354.90	5039.70	1521.53	702.08	1608.92	1.75	1.52	0.87	24.77	1675.70
Survey	6518.00	89.80	354.60	5040.32	1611.15	693.84	1696.32	0.56	0.44	0.33	23.30	1754.20
Survey	6613.00	89.60	354.80	5040.82	1705.74	685.06	1788.56	0.30	0.21	0.21	21.88	1838.17
Survey	6707.00	91.10	354.60	5040.25	1799.33	676.38	1879.82	1.61	1.60	0.21	20.60	1922.26
Survey	6802.00	90.00	354.90	5039.33	1893.93	667.69	1972.08	1.20	1.16	0.32	19.42	2008.18
Survey	6897.00	93.10	354.40	5036.76	1988.47	658.84	2064.26	3.31	3.26	0.53	18.33	2094.78
Survey	6992.00	91.60	354.60	5032.86	2082.95	649.74	2156.34	1.59	1.58	0.21	17.32	2181.94
Survey	7087.00	91.90	356.90	5029.96	2177.64	642.70	2248.94	2.44	0.32	2.42	16.44	2270.50
Survey	7181.00	89.50	358.50	5028.81	2271.55	638.93	2341.25	3.07	2.55	1.70	15.71	2359.70
Survey	7275.00	90.10	0.40	5029.14	2365.54	638.03	2434.06	2.12	0.64	2.02	15.09	2450.07
Survey	7369.00	91.10	1.60	5028.16	2459.52	639.67	2527.24	1.66	1.06	1.28	14.58	2541.34

Iris 2-12H Surveys

Type	M Depth	Incl.	Azimuth	TVD	North	East	V Section	Dogleg	B Rate	T Rate	Clos Azi	Clos Dist
Survey	7463.00	90.70	2.00	5026.68	2553.46	642.62	2620.58	0.60	0.43	0.43	14.13	2633.08
Survey	7557.00	89.90	1.00	5026.19	2647.42	645.08	2713.86	1.36	0.85	1.06	13.69	2724.88
Survey	7651.00	90.90	1.60	5025.53	2741.40	647.21	2807.12	1.24	1.06	0.64	13.28	2816.76
Survey	7746.00	89.60	1.10	5025.12	2836.37	649.45	2901.36	1.47	1.37	0.53	12.90	2909.77
Survey	7840.00	90.70	2.80	5024.87	2930.31	652.65	2994.74	2.15	1.17	1.81	12.56	3002.11
Survey	7934.00	90.90	2.50	5023.56	3024.20	656.99	3088.23	0.38	0.21	0.32	12.26	3094.74
Survey	8028.00	91.30	3.10	5021.76	3118.07	661.58	3181.74	0.77	0.43	0.64	11.98	3187.48
Survey	8122.00	90.10	3.00	5020.61	3211.93	666.58	3275.30	1.28	1.28	0.11	11.72	3280.37
Survey	8216.00	90.10	2.90	5020.45	3305.81	671.42	3368.86	0.11	0.00	0.11	11.48	3373.30
Survey	8311.00	90.80	2.40	5019.70	3400.70	675.81	3463.35	0.91	0.74	0.53	11.24	3467.20
Survey	8406.00	89.10	1.10	5019.79	3495.65	678.71	3557.68	2.25	1.79	1.37	10.99	3560.93
Survey	8500.00	90.60	359.90	5020.04	3589.64	679.53	3650.75	2.04	1.60	1.28	10.72	3653.39
Survey	8595.00	90.40	360.00	5019.21	3684.64	679.45	3744.68	0.24	0.21	0.11	10.45	3746.76
Survey	8689.00	90.20	359.60	5018.72	3778.64	679.12	3837.59	0.48	0.21	0.43	10.19	3839.18
Survey	8785.00	89.90	0.10	5018.64	3874.64	678.87	3932.49	0.61	0.31	0.52	9.94	3933.66
Survey	8879.00	91.60	2.10	5017.41	3968.61	680.67	4025.69	2.79	1.81	2.13	9.73	4026.56
Survey	8973.00	91.40	1.60	5014.95	4062.53	683.70	4119.02	0.57	0.21	0.53	9.55	4119.66
Survey	9069.00	89.40	3.30	5014.28	4158.43	687.80	4214.46	2.73	2.08	1.77	9.39	4214.93
Survey	9163.00	87.70	3.40	5016.66	4252.24	693.29	4308.05	1.81	1.81	0.11	9.26	4308.39
Survey	9258.00	88.20	2.60	5020.06	4347.05	698.26	4402.54	0.99	0.53	0.84	9.13	4402.77
Survey	9353.00	90.40	1.50	5021.22	4441.97	701.66	4496.92	2.59	2.32	1.16	8.98	4497.05
Survey	9447.00	88.20	3.30	5022.37	4535.87	705.60	4590.36	3.02	2.34	1.91	8.84	4590.42
Survey	9542.00	89.50	2.60	5024.28	4630.72	710.49	4684.88	1.55	1.37	0.74	8.72	4684.91
PrjCalcPnt	9652	89.5	2.6	5025.24	4740.60	715.48	4794.29	0	0	0	8.58	4794.29

Sandridge

Location Kansas Slot Iris 3120 2-12H
 Field Sec 12 - 31S - 20W Well Iris 3120 2-12H
 Installation Sec 12 - 31S - 20W Wellbore Iris 3120 2-12H (PWB)

Installation Data

Name	Latitude	Longitude	Northing	Easting
Sec 12 - 31S - 20W	N37 21 8.81	W99 27 12.57	251120.00	1722842.00

Coordinate System Kansas State Planes, Southern Zone

Slot Data

Name	North [ft]	East [ft]	Latitude	Longitude	Northing	Easting
Iris 3120 2-12H	191.20 N	1401.38 E	N37 21 10.84	W99 26 55.24	2511311.20	1724243.36

Elevation Data

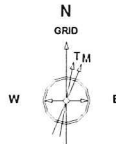
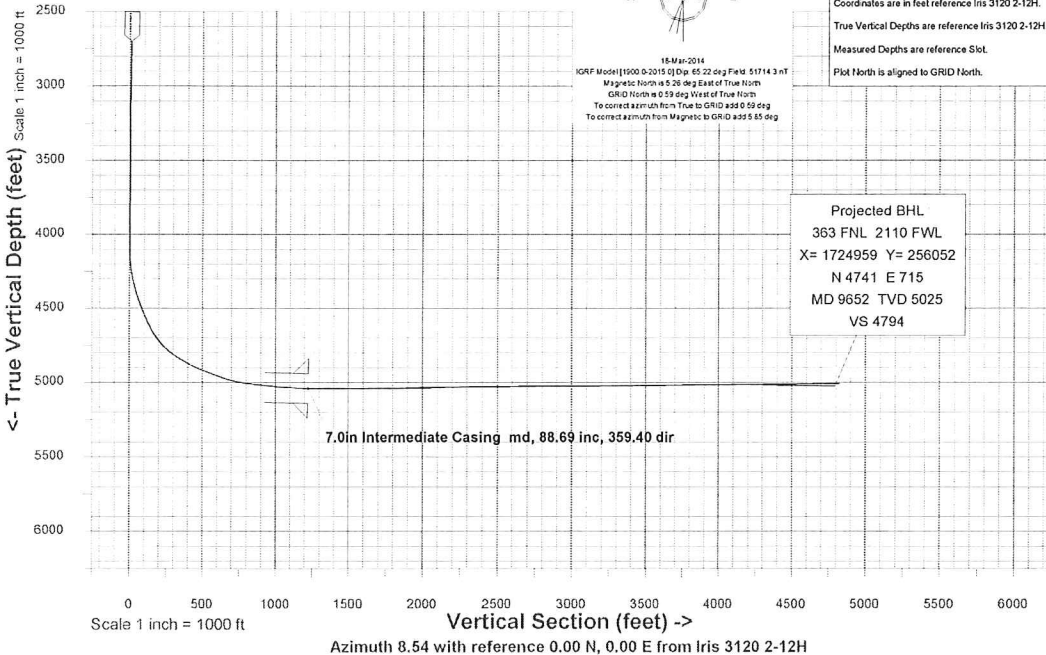
Slot - Mean Sea Level [ft]	Mean Sea Level - Mudline/Ground level [ft]	Slot - Mudline/Ground level [ft]
2053.00	-2033.00	20.00

WELL PROFILE DATA

Point	MD	Inc	Azi	TVD	North	East	deg/100ft	V. Sect
KOP	5955.00	88.80	359.10	5036.33	1049.37	722.74	0.00	1145.09
Target Hold Section	6236.72	90.80	355.13	5042.23	1330.56	708.56	2.00	1421.05
Target Drop & Turn w/	6890.00	90.80	355.13	5033.11	1981.41	653.11	0.00	2056.45
Target Hold Section	7218.32	90.50	1.69	5029.38	2309.41	644.00	2.00	2379.45
T.D. & Target PBHL Iris	9680.97	90.50	1.69	5007.90	4770.89	716.65	0.00	4824.41

TARGET DATA

MD	Inc	Azi	TVD	North	East	Name	Position
9680.97	90.50	1.69	5007.90	4770.89	716.65	PBHL Iris 3120 2-12H	1724960.00 East 256032.00 North
7218.32	90.50	1.69	5029.38	2309.41	644.00	Hold Section	1724687.35 East 253620.57 North
6890.00	90.80	355.13	5033.11	1981.41	653.11	Drop & Turn w/ 2' BRN	1724506.46 East 253292.58 North
6236.72	90.80	355.13	5042.23	1330.56	708.56	Tri-on Build & Turn w/ 2' BRN	1724966.09 East 252360.55 North
						Hold Section	1724951.91 East 252641.74 North



18-Mar-2014
 IGRF Model [1900-2015] @ Dip 65.22 deg Field 51714.3 nT
 Magnetic North is 5.26 deg East of True North
 GRID North is 0.59 deg West of True North
 To correct azimuth from True to GRID add 0.59 deg
 To correct azimuth from Magnetic to GRID add 5.85 deg

Created by admin
 Date plotted 28-Apr-2014
 Plot reference is Iris 3120 2-12H (PWB).
 Ref wellpath is Iris 3120 2-12H (PWP#1).
 Coordinates are in feet reference Iris 3120 2-12H.
 True Vertical Depths are reference Iris 3120 2-12H.
 Measured Depths are reference Slot.
 Plot North is aligned to GRID North.

Projected BHL
 363 FNL 2110 FWL
 X= 1724959 Y= 256052
 N 4741 E 715
 MD 9652 TVD 5025
 VS 4794

Scale 1 inch = 1000 ft

East (feet) ->

