



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1119901
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: _____



1119901

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. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Hazel 3120 1-24H
Doc ID	1119901

All Electric Logs Run

Mud Log
Induction
Density
Boresight

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Hazel 3120 1-24H
Doc ID	1119901

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
5	10312-10678	4238 bbls water, 36 bbls acid, 75M lbs sd, 4433 TLTR	
5	9826-10242	4230 bbls water, 36 bbls acid, 75M lbs sd, 9028 TLTR	
5	9380-9722	4223 bbls water, 36 bbls acid, 75M lbs sd, 13528 TLTR	
5	8922-9290	4216 bbls water, 36 bbls acid, 75M lbs sd, 17923 TLTR	
5	8458-8822	4209 bbls water, 36 bbls acid, 75M lbs sd, 22464 TLTR	
5	8006-8362	4202 bbls water, 36 bbls acid, 75M lbs sd, 31212 TLTR	
5	7528-7901	4195 bbls water, 36 bbls acid, 75M lbs sd, 35732 TLTR	
5	7082-7464	4188 bbls water, 36 bbls acid, 75M lbs sd, 40113 TLTR	
5	6604-6458	4180 bbls water, 36 bbls acid, 75M lbs sd, 44587 TLTR	
5	6112-6458	4173 bbls water, 36 bbls acid, 75M lbs sd, 48297 TLTR	

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Hazel 3120 1-24H
Doc ID	1119901

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
5	5668-5990	4166 bbls water, 36 bbls acid, 75M lbs sd, 53333 TLTR	
5	5262-5600	4159 bbls water, 36 bbls acid, 75M lbs sd, 57622 TLTR	

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Hazel 3120 1-24H
Doc ID	1119901

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	120	Pro Oilfield Services 10 Sack Grout	13	none
Surface	17.5	13.38	68	290	O-Tex Lite Premium Plus 65/ Premium Plus (Class C)	470	(6% gel) 2% Calcium Chloride, 1/4 pps Cello-Flake, .5% C-41P
Intermediate 1	12.25	9.63	36	1022	O-Tex Lite Premium Plus 65/ Premium Plus (Class C)	560	(6% gel) 2% Calcium Chloride, 1/4 pps Cello-Flake, .5% C-41P
Intermediate 2	8.75	7	26	5502	50/50 POZ Premium/ Premium	230	4% gel, .4% C-12, .1% C-37, .% C-41P, 2 lb/sk Phenoseal

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Hazel 3120 1-24H
Doc ID	1119901

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Liner	6.12	4.5	11.6	9999	50/50 Premium Poz	600	4% gel, .4% C-12, .1% C-37, .1% C-41P, 2 lb/sk Phenoseal

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
Thomas E. Wright, Commissioner
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

May 02, 2013

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

Re: ACO1
API 15-033-21684-01-00
Hazel 3120 1-24H
SE/4 Sec.13-31S-20W
Comanche County, Kansas

Dear Production Department:

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

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

Respectfully,
Tiffany Golay



P.O. BOX 3660
HOUMA, LA 70361-3660

Customer : SAN400

BILL TO : SANDRIDGE ENERGY
123 ROBERT S KERR AVENUE
OKLAHOMA CITY, OK 73102-8408
PHONE: (405) 753-5500 FAX: ()

Division : 0701
Delivery Ticket : 4088
Delivery Date : 1/28/2013
Office : 12/1/1901

Jan 12051

Ordered By :
Lease/Well : HAZEL 3120 1-24H
Rig Name/Number : LARIAT 45
AFE Number :
Site Contact :

Qty	Description	Min / Standby / Usage Charge	Add Day	Unit Price	Start Date / Stop Date	Extended Line Total
1	HAZEL 3120 1-24H	\$21,750.00	\$0.00	\$21,750.00	1/23/2013 1/23/2013	\$21,750.00
120	DRILLED 30" CONDUCTOR HOLE	\$0.00	\$0.00	\$0.00	1/23/2013 1/23/2013	
120	20" CONDUCTOR PIPE (.250 WALL)	\$0.00	\$0.00	\$0.00	1/23/2013 1/23/2013	
1	6'X6' CELLAR TINHORN WITH PROTECTIVE RING	\$0.00	\$0.00	\$0.00	1/23/2013 1/23/2013	
1	DRILL & INSTALL 6'X6' CELLAR TINHORN	\$0.00	\$0.00	\$0.00	1/23/2013 1/23/2013	
75	DRILLED 20" MOUSE HOLE (PER FOOT)	\$0.00	\$0.00	\$0.00	1/23/2013 1/23/2013	
75	16" CONDUCTOR PIPE (.250 WALL)	\$0.00	\$0.00	\$0.00	1/23/2013 1/23/2013	
1	MOBILIZATION OF EQUIPMENT & ROAD PERMITTING FEE	\$0.00	\$0.00	\$0.00	1/23/2013 1/23/2013	
1	WELDING SERVICES FOR PIPE & LIDS	\$0.00	\$0.00	\$0.00	1/23/2013 1/23/2013	
1	PROVIDED EQUIPMENT & LABOR FOR DIRT REMOVAL	\$0.00	\$0.00	\$0.00	1/23/2013 1/23/2013	
1	PROVIDED METAL LIDS (1 FOR CONDUCTOR & 2 FOR THE MOUSEHOLE PIPE)	\$0.00	\$0.00	\$0.00	1/23/2013 1/23/2013	
13	CEMENT 10 SACK GROUT	\$0.00	\$0.00	\$0.00	1/23/2013 1/23/2013	
Sub Total:		\$21,750.00	\$0.00			\$21,750.00

AFE Number: DC 12601
Well Name: Hazel 3120 1-24H
Code: 850.010
Amount: 21,750.00
Co. Man: Lawrence Rogers
Co. Man Sig.: [Signature]
Notes: [Signature]

Print Name _____
Signature _____

JOB SUMMARY			PROJECT NUMBER SOK 2406	TICKET DATE 02/07/13
COUNTY Comanche	State Kansas	COMPANY Sandridge Exploration & Production	CUSTOMER REP Bill	
LEASE NAME Hazel 3120	Well No. 1-24H	JOB TYPE Surface	EMPLOYEE NAME Johnny Breeze	

EMP NAME	Johnny Breeze	0					
	Arthur Setzar						
	Dustin Odom						
	Flo Helkena						

Form. Name _____ Type: _____

Packer Type _____ Set At _____ 0

Bottom Hole Temp. _____ 80 Pressure _____

Retainer Depth _____ Total Depth _____ 300'

	Called Out	On Location	Job Started	Job Completed
Date	2/7/2013	2/7/2013	2/7/2013	2/8/2013
Time	0900	1500	2248	0030

Type and Size	Qty	Make
Auto Fill Tube	0	IR
Insert Float Val	0	IR
Centralizers	0	IR
Top Plug	1	IR
HEAD	1	IR
Limit clamp	0	IR
Weld-A	0	IR
Texas Pattern Guide Shoe	0	IR
Cement Basket	0	IR

Well Data							
	New/Used	Weight	Size	Grade	From	To	Max. Allow
Casing		68#	13	3/8	Surface	294	5,000
Liner							
Liner							
Tubing			0				
Drill Pipe							
Open Hole			17	1/2"	Surface	300'	Shots/Ft.
Perforations							
Perforations							
Perforations							

Materials			
Mud Type	WBM	Density	9 Lb/Gal
Disp. Fluid	Fresh Water	Density	8.33 Lb/Gal
Spacer type	resh Water BBL.	20	8.33
Spacer type	Caustic BBL.	10	8.40
Acid Type	Gal.	%	
Acid Type	Gal.	%	
Surfactant	Gal.	In	
NE Agent	Gal.	In	
Fluid Loss	Gal/Lb	In	
Gelling Agent	Gal/Lb	In	
Fric. Red.	Gal/Lb	In	
MISC.	Gal/Lb	In	

Hours On Location		Operating Hours		Description of Job
Date	Hours	Date	Hours	
2/7	9.0	2/8	4.0	Surface
Total	9.0	Total	4.0	

Perfpac Balls _____ Qty. _____

Other _____

Other _____

Other _____

Other _____

Pressures			
MAX	1,000 PSI	AVG.	150
Average Rates in BPM			
MAX	6 BPM	AVG	5
Cement Left in Pipe			
Feet	37	Reason	SHOE JOINT

Cement Data						
Stage	Sacks	Cement	Additives	W/Rq.	Yield	Lbs/Gal
1	250	EX Lite Premium Plus 65	(6% Gel) 2% Calcium Chloride - 1/4pps Cello-Flake - .5% C-41P	10.88	1.84	12.70
2	120	Premium Plus (Class C)	2% Calcium Chloride - 1/4pps Cello-Flake	6.32	1.32	14.80
3	100	Premium Plus (Class C)	* 2% Calcium Chloride (On the Side)	6.32	1.32	14.80

Summary								
Preflush	_____	Type:	_____	Preflush:	BBI	10.00	Type:	Fresh Water
Breakdown	_____	MAXIMUM	1500 PSI	Load & Bkdn:	Gal - BBI	N/A	Pad:Bbl -Gal	N/A
	_____	Lost Returns-N	NO/FULL	Excess /Return	BBI	30	Calc. Disp Bbl	38
	_____	Actual TOC	Surface	Calc. TOC:	_____	Surface	Actual Disp.	38.44
Average	_____	Bump Plug PSI:	930	Final Circ.	PSI:	160	Disp:Bbl	_____
ISP	5 Min. _____	10 Min. _____	15 Min. _____	Cement Slurry:	BBI	110.1		
				Total Volume	BBI	158.58		

CUSTOMER REPRESENTATIVE Bill Jorlett SIGNATURE

JOB SUMMARY			PROJECT NUMBER SOK 2413	TICKET DATE 02/08/13
COUNTY Commanche	State Kansas	COMPANY Hridge Exploration & Produc	CUSTOMER REP Tommy Whitlow	
LEASE NAME Hazel 3120	Well No. 1-24H	JOB TYPE Surface	EMPLOYEE NAME L. ARNEY	

EMP NAME					
L. ARNEY		0			
J. JONES					
G. WOMACK					
D. TEWELL					

Form. Name _____ Type: _____

Packer Type _____ Set At 0

Bottom Hole Temp. 80 Pressure _____

Retainer Depth _____ Total Depth 0

Date	Called Out	On Location	Job Started	Job Completed
	2/8/2013	2/8/2013	2/9/2013	2/9/2013
Time		14:00	11:00	13:00

Tools and Accessories		
Type and Size	Qty	Make
Auto Fill Tube	0	IR
Insert Float Val	0	IR
Centralizers	0	IR
Top Plug	0	IR
HEAD	0	IR
Limit clamp	0	IR
Weld-A	0	IR
Texas Pattern Guide Shoe	0	IR
Cement Basket	0	IR

Well Data						
	New/Used	Weight	Size	Grade	From	To
Casing		36#	9 5/8"		Surface	
Liner						
Liner						
Tubing			0			
Drill Pipe						
Open Hole			12 1/4"		Surface	0
Perforations						Shots/Ft.
Perforations						
Perforations						

Materials			
Mud Type	WBM	Density	Lb/Gal
Disp. Fluid	Fresh Water	8.33	
Spacer type	resh Water BBL.	10	8.33
Spacer type	BBL.		
Acid Type	Gal.		%
Acid Type	Gal.		%
Surfactant	Gal.		In
NE Agent	Gal.		In
Fluid Loss	Gal/Lb		In
Gelling Agent	Gal/Lb		In
Fric. Red.	Gal/Lb		In
MISC.	Gal/Lb		In

Hours On Location		Operating Hours		Description of Job
Date	Hours	Date	Hours	
2/8	10.0	2/9	2.0	Surface
2/9	13.0			
Total		23.0	2.0	

Perfpac Balls _____ Qty. _____

Other _____

Other _____

Other _____

Other _____

Pressures			
MAX	1,500 PSI	AVG.	250
Average Rates in BPM			
MAX	6 BPM	AVG	5
Cement Left in Pipe			
Feet	41	Reason	SHOE JOINT

Cement Data						
Stage	Sacks	Cement	Additives	W/Rq.	Yield	Lbs/Gal
1	300	EX Lite Premium Plus 65	(6% Gel) 2% Calcium Chloride - 1/4pps Cello-Flake - .5% C-41P	10.88	1.84	12.70
2	160	Premium Plus (Class C)	2% Calcium Chloride - 1/4pps Cello-Flake	6.32	1.32	14.80
3	*100	Premium Plus (Class C)	*2% Calcium Chloride on side to use if necessary	*6.32	*1.32	*14.8

Summary					
Preflush Breakdown	_____	Type: _____	Preflush: BBI	10.00	Type: Fresh Water
	MAXIMUM	1,500 PSI	Load & Bkdn: Gal - BBI	N/A	Pad:Bbl -Gal N/A
	Lost Returns-N	NO/FULL	Excess /Return BBI	33	Calc.Disp Bbl 76
	Actual TOC	SURFACE	Calc. TOC:	SURFACE	Actual Disp. 76.00
Average	Bump Plug PSI:	900	Final Circ. PSI:	300	Disp:Bbl _____
ISIP _____ 5 Min.	10 Min	15 Min	Cement Slurry: BBI	136.0	
			Total Volume BBI	221.00	

CUSTOMER REPRESENTATIVE Bill Forsett SIGNATURE

JOB SUMMARY			PROJECT NUMBER SOK 2440	TICKET DATE 02/16/13
COUNTY Comanche	State Kansas	COMPANY Sandridge Exploration & Production	CUSTOMER REP Tommy Whitlow	
LEASE NAME Hazel 3120	Well No. 1-24H	JOB TYPE Intermediate	EMPLOYEE NAME NATHAN COTTA	

EMP NAME NATHAN COTTA	WALLACE				
BRETT ARMER					
WESLEY T.					
VONTREY					

Form. Name _____ Type: _____
 Packer Type _____ Set At **4,190'**
 Bottom Hole Temp. **155** Pressure _____
 Retainer Depth _____ Total Depth **5,482'**

Date	Called Out	On Location	Job Started	Job Completed
	2.16.13	2.17.13	2.17.13	2.17.13
Time	2000	0000	700	900

Tools and Accessories		
Type and Size	Qty	Make
Auto Fill Tube	0	IR
Insert Float Val	0	IR
Centralizers	0	IR
Top Plug	0	IR
HEAD	0	IR
Limit clamp	0	IR
Weld-A	0	IR
Texas Pattern Guide Shoe	0	IR
Cement Basket	0	IR

Well Data						
	New/Used	Weight	Size	Grade	From	To
Casing		26#	7"		Surface	
Liner						
Liner						
Tubing			0			
Drill Pipe						
Open Hole			8 3/4"		Surface	5,507'
Perforations						Shots/Ft.
Perforations						
Perforations						

Materials			
	WBM	Density	Lb/Gal
Disp. Fluid	Fresh Water	Density	8.33
Spacer type	resh Water BBL.		20
Spacer type	Caustic BBL.		10
Acid Type	Gal.	%	
Acid Type	Gal.	%	
Surfactant	Gal.	In	
NE Agent	Gal.	In	
Fluid Loss	Gal/Lb	In	
Gelling Agent	Gal/Lb	In	
Fric. Red.	Gal/Lb	In	
MISC.	Gal/Lb	In	

Hours On Location		Operating Hours		Description of Job
Date	Hours	Date	Hours	
2.17.13	9.0	2.17.13	1.0	Intermediate
Total	9.0	Total	1.0	

Perfpac Balls _____ Qty. _____
 Other _____
 Other _____
 Other _____
 Other _____

Pressures			
	MAX	AVG	Reason
	3500	550	
Average Rates in BPM			
	5 BPM	5	
Cement Left in Pipe			
Feet	84		SHOE JOINT

Cement Data						
Stage	Sacks	Cement	Additives	W/Rq.	Yield	Lbs/Gal
1	130	50/50 POZ PREMIUM	4% Gel - 0.4% C-12 - 0.1% C-37 - 0.5% C-41P - 2 lb/sk Phenoseal	6.77	1.44	13.60
2	100	Premium	0.4% C-12 - 0.1% C-37	5.20	1.18	15.60
3	0	0		0	0.00	0.00

Summary							
Preflush Breakdown	10	Type: _____	Caustic	Preflush: BBI	30.00	Type: WEIGHTED SP.	
		MAXIMUM	5,000 PSI	Load & Bkdn: Gal - BBI	N/A	Pad:Bbl -Gal	N/A
		Lost Returns-N	NO/FULL	Excess /Return BBI	N/A	Calc.Disp Bbl	206
		Actual TOC	4.159	Calc. TOC:	4.159	Actual Disp.	206.00
Average		Bump Plug PSI:	1.600	Final Circ. PSI:	1.100	Disp:Bbl	206.00
5 Min		10 Min	15 Min	Cement Slurry: BBI	54.0		
				Total Volume BBI	290.00		

CUSTOMER REPRESENTATIVE _____ SIGNATURE _____

JOB SUMMARY

COUNTY	State	COMPANY	PROJECT NUMBER	TICKET DATE
Commanche	Kansas	Bridge Exploration & Produc	SOK 2467	02/25/13
LEASE NAME	Well No.	JOB TYPE	CUSTOMER REP	
Hazel 3120	1-24H	Liner	Tommy Whitlow	
EMP NAME			EMPLOYEE NAME	
Johnny Breeze			Johnny Breeze	

Johnny Breeze	0.00				
Dustin Odom					
Flo Helkena					
Roy					

Form. Name _____ Type: _____
Packer Type _____ Set At 5,502
Bottom Hole Temp. 150 Pressure _____
Retainer Depth _____ Total Depth 10773

Date	Called Out	On Location	Job Started	Job Completed
	2/24/2013	2/25/2013	2/25/2013	2/26/2013
Time	2000	0200	2105	0000

Type and Size	Qty	Make
Auto Fill Tube	0	Weatherford
Insert Float Val	0	
Centralizers	0	
Top Plug	0	
HEAD	0	
Limit clamp	0	
Weld-A	0	
Texas Pattern Guide Shoe	0	
Cement Basket	0	

Well Data	New/Used		Weight	Size Grade	From	To	Max. Allow
Casing			11.6	4 1/2	5300	10,715	
Liner Tool							
HWDP							
Drill Collars			29.0	4	3,491	5,300	
Drill Pipe			14.0	4	surface	3,491	
Open Hole				6 1/8"	Surface	10,773	Shots/Ft.
Perforations							
Perforations							
Perforations							

Materials			
Mud Type	WBM	Density	Lb/Gal
Disp. Fluid	Fresh Water	8.33	
Spacer type	fresh Water BBL.	20	8.33
Spacer type	Caustic BBL.	10	8.40
Acid Type	Gal.	%	
Acid Type	Gal.	%	
Surfactant	Gal.	In	
NE Agent	Gal.	In	
Fluid Loss	Gal/Lb	In	
Gelling Agent	Gal/Lb	In	
Fric. Red.	Gal/Lb	In	
MISC.	Gal/Lb	In	
Perfpac Balls	Qty.		
Other			
Other			
Other			
Other			
Other			

Hours On Location		Operating Hours		Description of Job
Date	Hours	Date	Hours	
2/25	22.0	2/25	4.0	Liner
Total	22.0	Total	4.0	

Pressures		Average Rates in BPM		Cement Left in Pipe	
MAX	3.500 PSI	AVG	500		
MAX	6 BPM	AVG	6		
Feet	85	Reason	SHOE JOINT		

Stage	Sacks	Cement	Additives	W/Rq.	Yield	Lbs/Gal
1	600	50/50 Premium Poz	(4%Gel) - .4% C12 - .1% C37 - 0.5% C-41P - 2 Lb/Sk Phenoseal	6.77	1.44	13.60
2	0	0		0.00	0.00	0.00
3	0	0		0.00	0.00	0.00

Summary			
Preflush Breakdown	Type: _____	Preflush: BBI	30.00
	MAXIMUM 5000 PSI	Load & Bkdn: Gal - BBI	N/A
	Lost Returns-N	Excess /Return BBI	N/A
Average	Actual TOC 4.697'	Calc. TOC:	4.697'
ISIP 5 Min.	Bump Plug PSI: 1,850	Final Circ. PSI:	660
	10 Min _____	Cement Slurry: BBI	153.9
	15 Min _____	Total Volume BBI	313.87

CUSTOMER REPRESENTATIVE _____ SIGNATURE _____



Standard Wellpath Report
Sandridge
Sec 13 - 31S - 20W, Kansas
Comanche County
Wellbore: Hazel 3120 1-24H (Actual)

Wellbore

Name	Created	Last Revised
Hazel 3120 1-24H (Actual)	29-Jan-2013	25-Feb-2013

Well

Name	Government ID	Last Revised
Hazel 3120 1-24H		29-Jan-2013

Slot

Name	Grid Northing	Grid Easting	Latitude	Longitude	North	East
Hazel 3120 1-24H	248101.0000	1727361.0000	N37 20 39.4106	W99 26 16.2346	337.01S	669.01W

Installation

Name	Easting	Northing	Coord System Name	North Alignment
Comanche County	1728030.0000	248438.0001	KS-S on NORTH AMERICAN DATUM 1927 datum	Grid

Field

Name	Easting	Northing	Coord System Name	North Alignment
Sec 13 - 31S - 20W	1728030.0000	248438.0001	KS-S on NORTH AMERICAN DATUM 1927 datum	Grid

Created By

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Comments

FINAL Surveys. MD 10773 is a projection to bit @ TD
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Standard Wellpath Report
Sandridge
Sec 13 - 31S - 20W, Kansas
Comanche County
Wellbore: Hazel 3120 1-24H (Actual)

Wellpath (Grid) Report

MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]	Easting	Northing
0.00	0.00	0.000	0.00	0.00N	0.00E		0.00	1727361.00	248101.00
1244.00	0.70	3.600	1243.97	7.58N	0.48E	0.06	-7.59	1727361.48	248108.58
1429.00	0.90	19.100	1428.95	10.08N	1.02E	0.16	-10.11	1727362.02	248111.08
1704.00	0.70	272.000	1703.94	12.18N	0.05E	0.47	-12.18	1727361.05	248113.18
1887.00	1.30	250.700	1886.91	11.54N	3.03W	0.38	-11.47	1727357.97	248112.54
2077.00	1.20	258.700	2076.86	10.44N	7.01W	0.11	-10.28	1727353.99	248111.43
2362.00	1.20	248.700	2361.80	8.77N	12.72W	0.07	-8.48	1727348.28	248109.77
2647.00	1.20	248.900	2646.74	6.61N	18.28W	==>	-6.20	1727342.72	248107.61
2837.00	0.90	246.400	2836.71	5.29N	21.51W	0.16	-4.82	1727339.50	248106.29
3312.00	0.40	265.700	3311.67	3.68N	26.58W	0.11	-3.09	1727334.42	248104.68
3786.00	0.20	313.300	3785.67	4.12N	28.83W	0.06	-3.48	1727332.17	248105.12
4134.00	0.80	339.700	4133.65	6.81N	30.11W	0.18	-6.15	1727330.89	248107.81
4166.00	0.90	320.100	4165.65	7.22N	30.35W	0.96	-6.54	1727330.65	248108.22
4198.00	0.90	176.100	4197.65	7.16N	30.50W	5.35	-6.48	1727330.50	248108.16
4230.00	3.00	177.200	4229.63	6.07N	30.44W	6.56	-5.40	1727330.56	248107.07
4261.00	5.50	187.500	4260.54	3.79N	30.59W	8.40	-3.11	1727330.41	248104.79
4293.00	8.10	190.100	4292.31	0.05N	31.19W	8.18	0.64	1727329.81	248101.05
4325.00	9.90	192.900	4323.92	4.85S	32.20W	5.79	5.57	1727328.80	248096.15
4356.00	11.70	188.200	4354.37	10.56S	33.24W	6.46	11.30	1727327.76	248090.44
4388.00	14.10	185.100	4385.56	17.66S	34.05W	7.80	18.41	1727326.95	248083.34
4419.00	16.80	181.900	4415.44	25.90S	34.54W	9.13	26.66	1727326.47	248075.10
4451.00	19.60	178.300	4445.83	35.89S	34.53W	9.43	36.64	1727326.47	248065.11
4483.00	21.90	175.200	4475.76	47.20S	33.87W	7.96	47.94	1727327.13	248053.80
4514.00	24.30	174.400	4504.27	59.31S	32.76W	7.81	60.02	1727328.24	248041.69
4546.00	26.40	174.600	4533.19	72.95S	31.45W	6.57	73.63	1727329.55	248028.05
4577.00	28.00	174.500	4560.76	87.05S	30.11W	5.16	87.70	1727330.89	248013.95
4609.00	30.10	175.100	4588.73	102.53S	28.70W	6.63	103.14	1727332.30	247998.47
4641.00	32.40	175.700	4616.09	119.07S	27.37W	7.25	119.65	1727333.63	247981.93
4672.00	34.40	175.500	4641.96	136.09S	26.06W	6.46	136.63	1727334.94	247964.91
4704.00	35.90	175.400	4668.13	154.45S	24.60W	4.69	154.96	1727336.40	247946.55
4736.00	37.10	174.200	4693.85	173.41S	22.87W	4.36	173.87	1727338.13	247927.60
4767.00	38.50	173.300	4718.35	192.29S	20.80W	4.85	192.71	1727340.20	247908.71
4799.00	40.10	172.700	4743.11	212.41S	18.33W	5.14	212.76	1727342.67	247888.60
4830.00	41.90	173.700	4766.50	232.60S	15.93W	6.18	232.90	1727345.07	247868.40
4862.00	43.90	175.800	4789.94	254.29S	13.94W	7.68	254.54	1727347.06	247846.71
4894.00	45.10	176.800	4812.77	276.67S	12.49W	4.34	276.88	1727348.51	247824.33
4925.00	46.70	177.400	4834.34	298.91S	11.37W	5.35	299.08	1727349.63	247802.10
4957.00	48.30	177.600	4855.96	322.47S	10.34W	5.02	322.62	1727350.66	247778.53
4988.00	49.20	178.200	4876.40	345.77S	9.49W	3.25	345.89	1727351.51	247755.24
5020.00	50.20	178.700	4897.10	370.16S	8.83W	3.34	370.27	1727352.17	247730.84
5052.00	50.80	179.100	4917.45	394.85S	8.36W	2.11	394.94	1727352.64	247706.16
5083.00	50.50	179.100	4937.11	418.82S	7.98W	0.97	418.89	1727353.02	247682.19
5115.00	51.90	179.100	4957.16	443.75S	7.59W	4.37	443.81	1727353.41	247657.25
5146.00	55.30	179.200	4975.55	468.70S	7.22W	10.97	468.74	1727353.78	247632.31
5178.00	58.80	180.000	4992.95	495.55S	7.03W	11.14	495.58	1727353.97	247605.46
5209.00	61.70	180.700	5008.33	522.46S	7.20W	9.56	522.49	1727353.80	247578.55
5241.00	64.50	180.800	5022.81	550.99S	7.57W	8.75	551.02	1727353.43	247550.02
5273.00	67.10	180.800	5035.93	580.17S	7.98W	8.13	580.21	1727353.02	247520.84
5304.00	69.50	181.400	5047.39	608.97S	8.54W	7.95	609.01	1727352.46	247492.04
5336.00	72.50	182.000	5057.81	639.21S	9.44W	9.54	639.26	1727351.57	247461.80
5368.00	75.70	181.800	5066.57	669.96S	10.45W	10.02	670.03	1727350.55	247431.05
5399.00	79.40	181.300	5073.25	700.22S	11.27W	12.04	700.29	1727349.73	247400.80
5431.00	82.80	181.100	5078.20	731.82S	11.93W	10.64	731.90	1727349.07	247369.19
5452.00	84.10	180.900	5080.60	752.68S	12.30W	6.26	752.77	1727348.70	247348.33
5522.00	87.60	180.300	5087.83	852.39S	13.34W	3.55	852.48	1727347.66	247248.62
5615.00	89.50	179.600	5089.43	915.37S	13.29W	3.21	915.44	1727347.71	247185.64
5647.00	87.30	177.600	5090.32	947.35S	12.51W	9.29	947.39	1727348.49	247153.67
5742.00	89.30	178.100	5093.14	1042.23S	8.94W	2.17	1042.17	1727352.06	247058.79
5837.00	89.90	180.200	5093.80	1137.21S	7.53W	2.30	1137.10	1727353.47	246963.81
5931.00	89.70	181.300	5094.13	1231.20S	8.76W	1.19	1231.09	1727352.24	246869.82
6026.00	89.40	181.500	5094.88	1326.17S	11.09W	0.38	1326.09	1727349.91	246774.85
6121.00	90.40	182.200	5095.04	1421.12S	14.15W	1.28	1421.08	1727346.85	246679.90
6216.00	88.70	180.800	5095.79	1516.08S	16.64W	2.32	1516.07	1727344.36	246584.95
6311.00	89.00	181.100	5097.70	1611.05S	18.21W	0.45	1611.05	1727342.79	246489.98
6406.00	90.20	181.900	5098.36	1706.01S	20.70W	1.52	1706.05	1727340.30	246395.02
6501.00	89.60	181.300	5098.53	1800.97S	23.35W	0.89	1801.05	1727337.65	246300.06
6596.00	91.90	181.600	5097.28	1895.93S	25.76W	2.44	1896.03	1727335.24	246205.11
6691.00	91.80	181.600	5094.21	1990.84S	28.41W	0.11	1990.98	1727332.59	246110.19
6782.00	91.70	182.500	5091.44	2081.74S	31.66W	0.99	2081.93	1727329.34	246019.30
6874.00	90.30	182.500	5089.83	2173.63S	35.67W	1.52	2173.89	1727325.33	245927.40

All data is in Feet unless otherwise stated
Coordinates are from Slot MD's are from Slot and TVD's are from Slot (Hazel 3120 1-24H 0.00ft above Mean Sea Level)
Vertical Section is from 0.00N 0.00E on azimuth 181.270 degrees
Bottom hole distance is 6071.38 Feet on azimuth 181.30 degrees from Wellhead
Calculation method uses Minimum Curvature method
Prepared by
Date Printed: 25-Feb-2013



Standard Wellpath Report
 Sandridge
 Sec 13 - 31S - 20W, Kansas
 Comanche County
 Wellbore: Hazel 3120 1-24H (Actual)

Wellpath (Grid) Report

MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]	Easting	Northing
6967.00	89.80	182.300	5089.75	2266.55S	39.57W	0.58	2266.87	1727321.43	245834.49
7058.00	89.80	182.300	5090.07	2357.48S	43.22W	==>	2357.86	1727317.78	245743.56
7150.00	89.40	182.300	5090.71	2449.40S	46.91W	0.43	2449.84	1727314.09	245651.64
7243.00	89.20	182.500	5091.85	2542.31S	50.81W	0.30	2542.81	1727310.19	245558.73
7335.00	89.70	182.700	5092.73	2634.21S	54.98W	0.59	2634.78	1727306.02	245466.83
7426.00	89.70	182.100	5093.20	2725.13S	58.79W	0.66	2725.77	1727302.21	245375.91
7518.00	89.50	181.500	5093.85	2817.08S	61.68W	0.69	2817.76	1727299.32	245283.96
7611.00	89.30	181.400	5094.82	2910.05S	64.03W	0.24	2910.75	1727296.97	245191.00
7702.00	89.20	181.400	5096.01	3001.01S	66.26W	0.11	3001.75	1727294.74	245100.04
7795.00	89.60	181.100	5096.99	3093.99S	68.28W	0.54	3094.74	1727292.72	245007.06
7887.00	89.70	181.500	5097.55	3185.96S	70.37W	0.45	3186.74	1727290.63	244915.09
7979.00	90.20	181.500	5097.63	3277.93S	72.78W	0.54	3278.74	1727288.22	244823.12
8072.00	89.60	181.900	5097.79	3370.89S	75.54W	0.78	3371.73	1727285.46	244730.17
8165.00	88.00	181.600	5099.74	3463.82S	78.38W	1.75	3464.71	1727282.62	244637.24
8256.00	88.70	181.200	5102.36	3554.75S	80.60W	0.89	3555.67	1727280.40	244546.30
8347.00	88.40	181.200	5104.66	3645.71S	82.51W	0.33	3646.64	1727278.50	244455.35
8439.00	88.60	180.900	5107.07	3737.66S	84.19W	0.39	3738.61	1727276.81	244363.40
8532.00	89.60	180.800	5108.53	3830.64S	85.57W	1.08	3831.59	1727275.43	244270.43
8627.00	89.00	180.800	5109.69	3925.62S	86.90W	0.63	3926.58	1727274.10	244175.45
8722.00	89.30	181.000	5111.10	4020.60S	88.39W	0.38	4021.57	1727272.61	244080.47
8817.00	90.70	181.100	5111.10	4115.58S	90.13W	1.48	4116.56	1727270.87	243985.49
8912.00	90.70	181.600	5109.94	4210.54S	92.37W	0.53	4211.56	1727268.63	243890.52
9007.00	91.30	181.500	5108.28	4305.49S	94.94W	0.64	4306.54	1727266.06	243795.58
9102.00	91.40	181.200	5106.04	4400.44S	97.17W	0.33	4401.51	1727263.83	243700.63
9197.00	91.10	182.000	5103.97	4495.38S	99.83W	0.90	4496.49	1727261.17	243605.69
9292.00	90.40	182.100	5102.73	4590.31S	103.22W	0.74	4591.47	1727257.78	243510.76
9387.00	90.80	182.000	5101.73	4685.25S	106.62W	0.43	4686.46	1727254.38	243415.83
9482.00	91.10	181.500	5100.16	4780.19S	109.52W	0.61	4781.44	1727251.48	243320.89
9577.00	89.50	181.400	5099.66	4875.15S	111.93W	1.69	4876.44	1727249.07	243225.93
9672.00	90.10	182.500	5099.99	4970.10S	115.16W	1.32	4971.43	1727245.84	243130.99
9767.00	89.40	182.300	5100.41	5065.01S	119.14W	0.77	5066.41	1727241.86	243036.07
9862.00	87.90	181.200	5102.64	5159.94S	122.04W	1.96	5161.37	1727238.96	242941.15
9957.00	87.20	179.400	5106.71	5254.84S	122.54W	2.03	5256.27	1727238.47	242846.24
10057.00	89.70	178.600	5109.41	5354.78S	120.79W	2.62	5356.14	1727240.21	242746.30
10152.00	92.10	179.900	5107.92	5449.75S	119.55W	2.87	5451.06	1727241.45	242651.34
10247.00	93.10	181.400	5103.61	5544.65S	120.62W	1.90	5545.96	1727240.38	242556.44
10342.00	93.10	181.400	5098.47	5639.48S	122.94W	==>	5640.82	1727238.06	242461.61
10437.00	92.40	181.900	5093.91	5734.33S	125.67W	0.91	5735.71	1727235.33	242366.76
10532.00	91.80	181.800	5090.43	5829.22S	128.74W	0.64	5830.64	1727232.26	242271.88
10627.00	92.30	182.200	5087.03	5924.10S	132.05W	0.67	5925.57	1727228.95	242177.00
10724.00	92.90	182.500	5082.63	6020.91S	136.02W	0.69	6022.45	1727224.98	242080.18
10773.00	92.90	182.500	5080.15	6069.80S	138.16W	==>	6071.38	1727222.84	242031.29

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 Vertical Section is from 0.00N 0.00E on azimuth 181.270 degrees
 Bottom hole distance is 6071.38 Feet on azimuth 181.30 degrees from Wellhead
 Calculation method uses Minimum Curvature method
 Prepared by
 Date Printed: 25-Feb-2013



Standard Wellpath Report
Sandridge
Sec 13 - 31S - 20W, Kansas
Comanche County
Wellbore: Hazel 3120 1-24H (Actual)

Comments

MD[ft]	TVD[ft]	North[ft]	East[ft]	Comment
10773.00	5080.15	6069.80S	138.16W	Projection to bit @ TD

All data is in Feet unless otherwise stated
Coordinates are from Slot MD's are from Slot and TVD's are from Slot (Hazel 3120 1-24H 0.00ft above Mean Sea Level)
Vertical Section is from 0.00N 0.00E on azimuth 181.270 degrees
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Date Printed: 25-Feb-2013

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	3/28/2013
Job End Date:	3/28/2013
State:	Kansas
County:	Comanche
API Number:	15-033-21684-01-00
Operator Name:	SandRidge Energy
Well Name and Number:	Hazel 3120 1-24H
Longitude:	-99.43780000
Latitude:	37.34420000
Datum:	NAD27
Federal/Tribal Well:	NO
Total Base Water Volume (gal):	2,163,247
Total Base Non Water Volume:	



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
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.							
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Biocide, Surfactant, Acid, Iron Control Agent, Propping Agent					
			Water (Including Mix Water Supplied by Client)*			95.04562	
			Crystalline silica	14808-60-7	95.77639	4.74513	
			Hydrogen chloride	7647-01-0	2.68059	0.13281	
			Distillates (petroleum), hydrotreated light	64742-47-8	0.36062	0.01787	
			Acrylamide/ammonium acrylate copolymer	26100-47-0	0.30052	0.01489	
			Methanol	67-56-1	0.25763	0.01276	
			Ammonium chloride	12125-02-9	0.17280	0.00856	
			Alcohol, C11 linear, ethoxylated	34398-01-1	0.12319	0.00610	
			Alcohol, C9-C11, Ethoxylated	68439-46-3	0.08213	0.00407	
			Glutaraldehyde	111-30-8	0.06848	0.00339	
			Ethoxylated oleic acid	9004-96-0	0.03005	0.00149	
			Trisodium ortho phosphate	7601-54-9	0.02687	0.00133	
			Sorbitan monooleate	1338-43-8	0.02630	0.00130	
			Sodium erythorbate	6381-77-7	0.02338	0.00116	

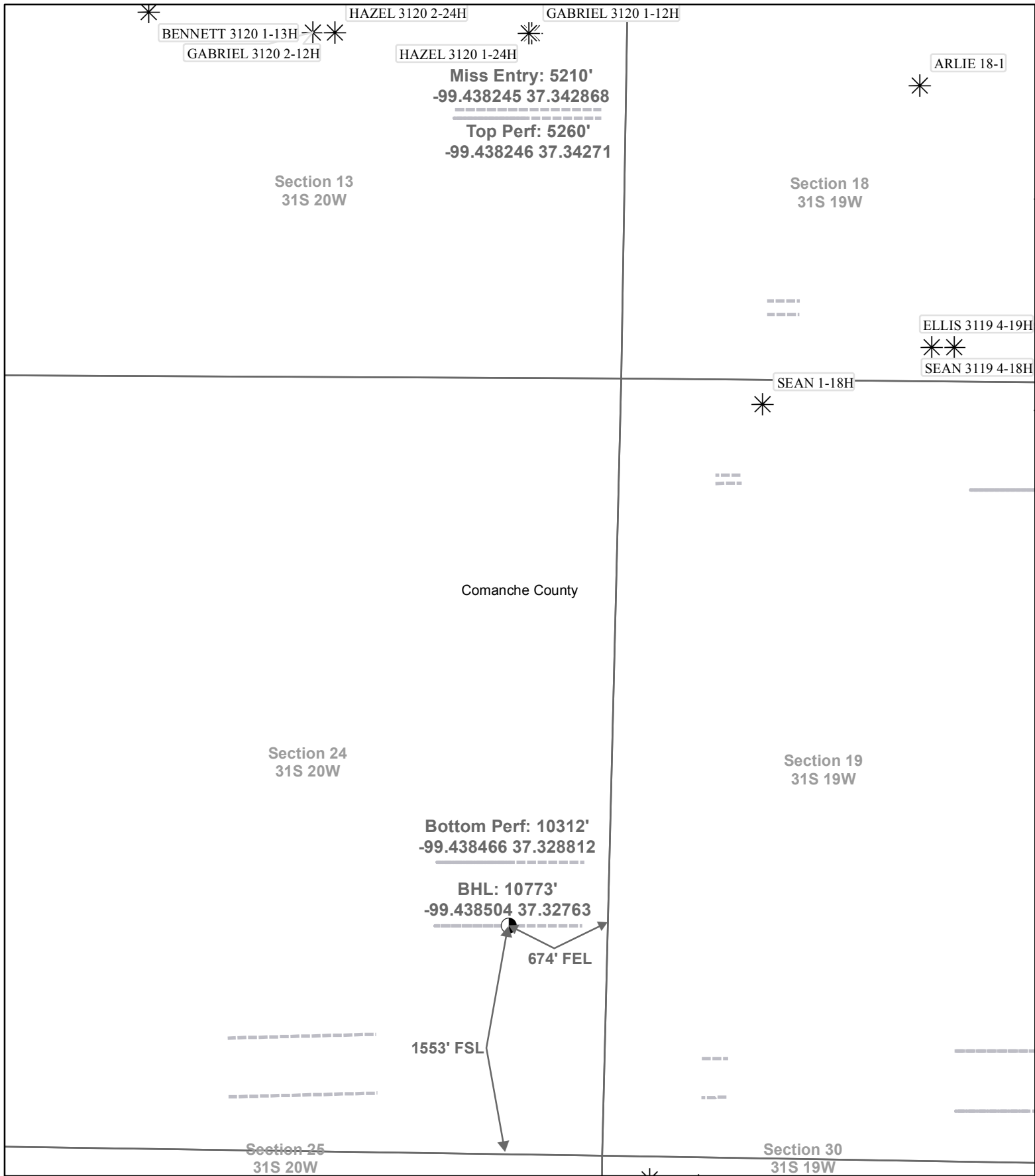
			Sorbitol Tetraoleate	61723-83-9	0.01878	0.00093
			Alcohols, C10-C16, ethoxylated	68002-97-1	0.01548	0.00077
			Alcohols, C12-C14, ethoxylated	68439-50-9	0.01548	0.00077
			Alcohols, C12-C16, ethoxylated	68551-12-2	0.01563	0.00077
			Alkyl(c12-16) dimethylbenzyl ammonium chloride	68424-85-1	0.01223	0.00061
			C14 alpha olefin ethoxylate	84133-50-6	0.00826	0.00041
			Ethane-1,2-diol	107-21-1	0.00765	0.00038
			Fatty acids, tall-oil	61790-12-3	0.00775	0.00038
			2-Propenoic acid, ammonium salt	10604-69-0	0.00751	0.00037
			Thiourea, polymer with formaldehyde and 1-phenylethanone	68527-49-1	0.00638	0.00032
			Alcohols, C14-15, ethoxylated (7EO)	68951-67-7	0.00297	0.00015
			Prop-2-yn-1-ol	107-19-7	0.00198	0.00010
			Alkenes, C>10 a-	64743-02-8	0.00132	0.00007
			Ethanol	64-17-5	0.00147	0.00007

* 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 Bottom-Hole Location of Hazel 3120 1-24H
Comanche County, Kansas
T&R: 31S 20W
Section: 24, 674' FEL & 1553' FSL
Long/Lat:-99.438504 37.32763

1 in = 866 ft

0 500 1,000 2,000 Feet

● Actual BH Location

* SandRidge Wells

--- Perf

□ Sections

Draftsman: Aaron Birk

Draft Date: 5/15/2013

Drawing Name/Number: Addendum_Hazel1-24H.mxd

Coordinate System: NAD 1927 State Plane Kansas South FIPS: 1502

Remarks

Tiffany Golay 05/07/013 08:40 am	Additional Fluid Mgmt Info: 980 bbls hauled to Guard, Inc., 23-22N-13W, Major, OK
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Tiffany Golay
05/02/013 12:30 pm Conductor weight= 94 lbs/ft Liner depth= 10,773

Tiffany Golay 05/02/013 11:05 am	TD= 10,773' TVD= 5,080'
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