

JOB SUMMARY			PROJECT NUMBER SOK0695	TICKET DATE 07/21/11
COUNTRY Harper	State Kansas	COMPANY Landridge Exp and Productio	CUSTOMER REP Euidosio Garza	
LEASE NAME Bernice	Well No. 1-17H	JOB TYPE Surface	EMPLOYEE NAME Chris Bigbey	

EMP NAME Chris Bigbey	RJ Stonehocker				
Jared Green					
Daniel Wells					
Larry Kirchner Sr.					

Form. Name _____ Type: _____

Packer Type _____ Set At **0**

Bottom Hole Temp. **80** Pressure _____

Retainer Depth _____ Total Depth **926**

Date	Called Out 7/21/2011	On Location 7/21/2011	Job Started 7/21/2011	Job Completed 7/21/2011
Time	0730	1200	1600	1700

Type and Size	Qty	Make
Auto Fill Tube	0	Weatherford
Insert Float Val	0	
Centralizers	0	
Top Plug	1	
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		36#	9 5/8"		Surface	926	
Liner							
Liner							
Tubing			0				
Drill Pipe							
Open Hole			12 1/4"		Surface	927	Shots/Ft.
Perforations							
Perforations							
Perforations							

Materials				
	whm	Density	9.2	Lb/Gal
Mud Type	water	Density	8.34	Lb/Gal
Disp. Fluid	water	Density	8.34	Lb/Gal
Spacer type	BBL.	10		
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	
7/21	7.0	7/21	1.0	Surface
Total	7.0	Total	1.0	

Perfpac Balls _____ Qty. _____

Other _____

Other _____

Other _____

Other _____

Other _____

Pressures			
MAX	1500	AVG.	200
Average Rates in BPM			
MAX	6	AVG	5
Cement Left in Pipe			
Feet	47	Reason	Shoe Jt.

Cement Data						
Stage	Sacks	Cement	Additives	W/Rq.	Yield	Lbs/Gal
1	245	65:35 Standard:Poz	6% Gel - 2% Calcium Chloride - 1/4lb/sk Cello-Flake	10.88	1.84	12.70
2	180	Standard	2% Calcium Chloride - 1/4lb/sk Cello-Flake	5.20	1.18	15.60
3	100	Standard	2% Calcium Chloride on side if necessary	5.20	1.18	15.60

Summary					
Preflush	_____	Type:	_____	Preflush:	BBI 10.00
Breakdown	_____	MAXIMUM	1,500	Load & Bkdn:	Gal - BBI
	_____	Lost Returns-N	no	Excess /Return BBI	38
	_____	Actual TOC	surface	Calc. TOC:	surface
Average	_____	Frac. Gradient	_____	Treatment:	Gal - BBI
ISIP	5 Min. _____	10 Min _____	15 Min _____	Cement Slurry:	BBI 118.1
				Total Volume	BBI 191.10

CUSTOMER REPRESENTATIVE *Charles Hubbard* SIGNATURE

JOB SUMMARY			PROJECT NUMBER SOK0733	TICKET DATE 08/09/11
COUNTY Harper	State Kansas	COMPANY Landridge Exp and Productio	CUSTOMER REP Felix Ortiz	
LEASE NAME Bernice	Well No. 1-17H	JOB TYPE Squeeze Job	EMPLOYEE NAME Larry Kirchner Jr.	

EMP NAME					
Larry Kirchner					
Emmit Brock					
Florian Helkena					

Form. Name _____ Type: _____
Packer Type _____ Set At **5,192'**
Bottom Hole Temp. **4,388'** Pressure _____
Retainer Depth _____ Total Depth **9,605'**

Date	Called Out 8/8/2011	On Location 8/8/2011	Job Started 8/8/2011	Job Completed 8/9/2011
Time	10:00AM	2:00PM	6:02PM	12:00AM

Tools and Accessories		
Type and Size	Qty	Make
Auto Fill Tube	0	Weatherford
Insert Float Va	0	
Centralizers	0	
Drill Pin	1	
HEAD	0	
Limit clamp	0	
Weild-A	0	
Texas Pattern Guide Shoe	0	
Cement Basket	0	

Well Data						
	New/Used	Weight	Size	Grade	From	To
Casing		11.6	4 1/2		Surface	
Liner						3,500
Liner						
Tubing			3 1/2			
Drill Pipe	Used		3 1/2	IF	Surface	3,831'
Open Hole			6 1/8		Surface	9,505' Shots/Ft.
Perforations						
Perforations						
Perforations						

Materials			
Mud Type	WBM	Density	9 Lb/Gal
Disp. Fluid	Fresh Water	Density	8.33 Lb/Gal
Spacer type	Fresh Water	BBL	20 8.33
Spacer type	Caustic	BBL	10 8.50
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	
8/8	10.0	8/8	2.0	Squeeze Job
Total	10.0	Total	2.0	

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

Pressures		
MAX	2000	AVG. 100
Average Rates in BPM		
MAX	6	AVG 3
Cement Left in Pipe		
Feet	0	Reason Squeeze

Cement Data						
Stage	Sacks	Cement	Additives	W/Rq.	Yield	Lbs/Gal
1	300	Premium Cement	Neat	5.20	1.18	15.60
2	0	0		0	0.00	0.00
3	0	0		0	0.00	0.00

Summary					
Preflush Breakdown	Type: _____	Preflush: BBI	0.00	Type: WATER	
	MAXIMUM	Load & Bkdn: Gal - BBI		Pad: Bbl - Gal	
	Lost Returns-1	Excess /Return BBI		Calc. Disp Bbl	18
	Actual TOC	Calc. TOC:		Actual Disp.	18.00
Average	Frac. Gradient	Treatment: Gal - BBI		Disp: Bbl	
ISIP	5 Min.	Cement Slurry BBI	63.0		
	10 Min.	Total Volume BBI	81.00		
	15 Min.				

CUSTOMER REPRESENTATIVE _____ SIGNATURE _____

JOB SUMMARY			PROJECT NUMBER SOK0708	TICKET DATE 07/27/11
COUNTY Harper	State Kansas	COMPANY Andridge Exp and Productio	CUSTOMER REP Claude Hallmark	
LEASE NAME Bernice	Well No. 1-17H	JOB TYPE Intermediate	EMPLOYEE NAME Chris Bigbey	

EMP NAME							
Chris Bigbey							
Jared Green							
Larry Kirchner SR							
David Settlemier							

Form. Name _____ Type: _____

Packer Type _____ Set At 0

Bottom Hole Temp. 155 Pressure _____

Retainer Depth _____ Total Depth 5,242'

	Called Out	On Location	Job Started	Job Completed
Date	<u>7/27/2011</u>	<u>7/27/2011</u>	<u>7/27/2011</u>	<u>7/27/2011</u>
Time	<u>05:00</u>	<u>10:00</u>	<u>1925</u>	<u>2036</u>

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

Well Data						
	New/Used	Weight	Size	Grade	From	To
Casing		<u>26#</u>	<u>7"</u>		Surface	<u>5,242'</u>
Liner						
Liner						
Tubing			<u>0</u>			
Drill Pipe						
Open Hole			<u>8 3/4"</u>		Surface	<u>5,242'</u>
Perforations						Shots/Ft.
Perforations						
Perforations						

Materials			
Mud Type	<u>WBM</u>	Density	<u>9</u> Lb/Gal
Disp. Fluid	<u>Fresh Water</u>	Density	<u>8.33</u> Lb/Gal
Spacer type	<u>Fresh Water BBL.</u>		<u>20</u> 8.33
Spacer type	<u>Caustic</u>	BBL.	<u>10</u> 8.50
Acid Type		Gal.	%
Acid Type		Gal.	%
Surfactant		Gal.	ln
NE Agent		Gal.	ln
Fluid Loss		Gal/Lb	ln
Gelling Agent		Gal/Lb	ln
Fric. Red.		Gal/Lb	ln
MISC.		Gal/Lb	ln

Hours On Location		Operating Hours		Description of Job
Date	Hours	Date	Hours	
<u>7/27</u>	<u>12.0</u>	<u>7/27</u>	<u>1.0</u>	Intermediate
Total	<u>12.0</u>	Total	<u>1.0</u>	

Perfpac Balls _____ Qty. _____

Other _____

Other _____

Other _____

Other _____

Pressures	
MAX	<u>5,000 PSI</u> AVG. <u>500</u>
Average Rates in BPM	
MAX	<u>10 BPM</u> AVG <u>6</u>
Cement Left in Pipe	
Feel	<u>83</u> Reason <u>SHOE JOINT</u>

Cement Data						
Stage	Sacks	Cement	Additives	W/Rq.	Yield	Lbs/Gal
<u>1</u>	<u>270</u>	<u>50:50 Poz w/ Premium</u>	<u>(Includes 2% Gel) 4% Gel + .5% C-21 + .1% C-37 + 1pps Phenoseal</u>	<u>6.77</u>	<u>1.44</u>	<u>13.60</u>
<u>2</u>	<u>0</u>	<u>0</u>		<u>0</u>	<u>0.00</u>	<u>0.00</u>
<u>3</u>	<u>0</u>	<u>0</u>		<u>0</u>	<u>0.00</u>	<u>0.00</u>

Summary							
Preflush Breakdown	<u>10</u>	Type: <u>CAUSTIC</u>	Preflush: <u>BBI</u>	<u>20.00</u>	Type: <u>WATER</u>		
		MAXIMUM <u>5,000 PSI</u>	Load & Bkdn: <u>Gal - BBI</u>	<u>N/A</u>	Pad: Bbl - Gal	<u>N/A</u>	
		Lost Returns: <u>NO/FULL</u>	Excess /Return: <u>BBI</u>	<u>N/A</u>	Calc. Disp Bbl	<u>197</u>	
		Actual TOC <u>3,510'</u>	Calc. TOC: <u>3,675</u>		Actual Disp.	<u>185.00</u>	
Average isip	<u>5 Min.</u>	Bump Plug PSI: <u>1,400</u>	Final Circ. PSI: <u>700</u>		Disp: Bbl	<u>197.00</u>	
	<u>10 Min.</u>	<u>15 Min.</u>	Cement Slurry: <u>BBI</u>	<u>69.3</u>			
			Total Volume	<u>BBI</u>	<u>274.25</u>		

CUSTOMER REPRESENTATIVE _____ SIGNATURE Claude Hallmark

JOB SUMMARY			PROJECT NUMBER SOK0732	TICKET DATE 08/08/11
COUNTY Harper	State Kansas	COMPANY Landridge Exp and Productio	CUSTOMER REP Felix Ortiz	
LEASE NAME Bernice	WELL NO. 1-17H	JOB TYPE Liner	EMPLOYEE NAME Larry Kirchner Jr.	

EMP NAME					
Larry Kirchner					
Emmit Brock					
Robert Stonehocker					
David Thomas					

Form. Name _____ Type: _____
 Packer Type _____ Set At **5,192'**
 Bottom Hole Temp. **155** Pressure _____
 Retainer Depth _____ Total Depth **9,505'**

Date	Called Out 8/7/2011	On Location 8/8/2011	Job Started 8/8/2011	Job Completed 8/8/2011
Time	16:30	00:00	5:32AM	7:30AM

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 Gulde Shoe	0	
Cement Basket	0	

Well Data							
	New/Used	Weight	Size	Grade	From	To	Max. Allow
Casing	New	11.6#	4 1/2"		4,020'	9,484'	3,500
Liner Tool							3,500
Drill Collars					3,105	4,020'	3,500
Drill Pipe		13.3	3 1/2"		Surface	3105'	3,500
Drill Pipe							
Open Hole			8 3/4"		Surface	9,484'	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	8.50
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	
8/8	7.5	8/8	2.0	Liner
Total	7.5	Total	2.0	

Pressures	
MAX 3,500 PSI	AVG. 400
Average Rates in BPM	
MAX 6 BPM	AVG 4
Cement Left in Pipe	
Feet 40	Reason SHOE JOINT

Cement Data						
Stage	Sacks	Cement	Additives	W/Rq.	Yield	Lbs/Gal
1	550	50:50 Poz w/ Premium	(Includes 2% Gel) 4% Gel + .4% C-12 + .1% C-37 + 1pps Phenoseal	6.77	1.44	13.60
2	0	0		0	0.00	0.00
3	0	0		0	0.00	0.00

Summary							
Preflush Breakdown	10	Type: CAUSTIC	Preflush: BBI	30.00	Type: WATER	Pad:Bbl -Gal	N/A
		MAXIMUM 3,500 PSI	Load & Bkdn: Gal - BBI	N/A	Calc. Disp Bbl	111	
		Lost Returns N	Excess /Return BBI	N/A	Actual Disp.	105.50	
		Actual TOC 3,638'	Calc. TOC:	3,617'	Disp:Bbl		
Average		Bump Plug PSI:	Final Circ. PSI:	400			
15 Min	5 Min.	10 Min	Cement Slurry: BBI	141.0			
		15 Min	Total Volume BBI	276.50			

CUSTOMER REPRESENTATIVE _____ SIGNATURE *Felix Ortiz*

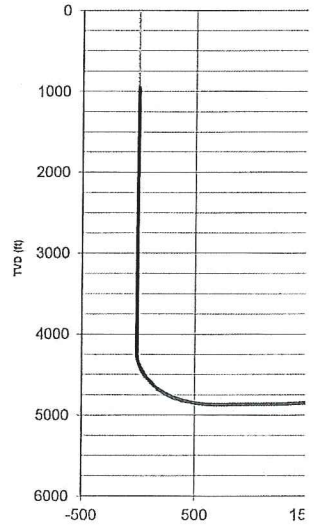
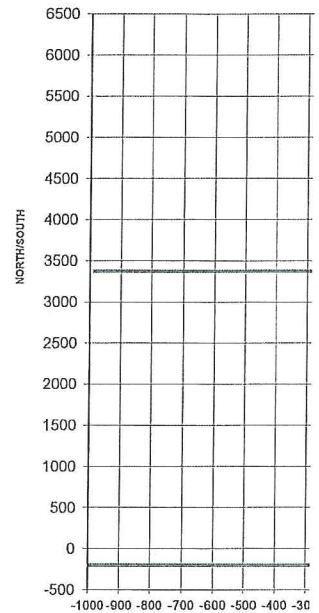


RIG: Lariat Rig 45

WELL: Bernice 1-17H
 LOCATION: 200' FSL & 1,980' FWL of 17-T35S-R7W
 BHL: 1,720' FSL & 1,980' FWL of 8-T35S-R7W

Target Direction: 359 deg
 North/South Hard Line: -200
 East/West Hard Line: -1980

STATION NUMBER	SURVEY DEPTH	INC	AZMTH	TVD	N-S	E-W	VERT. SECTION	DLS/100
Tie-In								
1	960.00	0.20	10.60	960.00	1.65	0.31	1.65	0
2	1330.00	0.60	179.60	1329.99	0.34	0.44	0.35	0
3	1705.00	0.40	243.40	1704.98	-2.21	-0.72	-2.21	0
4	2182.00	0.70	236.80	2181.96	-4.55	-4.64	-4.59	0
5	2658.00	0.50	222.30	2657.93	-7.67	-8.47	-7.75	0
6	3134.00	0.20	353.50	3133.93	-8.39	-9.97	-8.48	0
7	3610.00	0.60	105.30	3609.92	-8.22	-7.66	-8.29	0
8	4087.00	0.70	110.60	4086.89	-9.90	-2.52	-9.92	0
9	4119.00	0.70	111.80	4118.89	-10.04	-2.15	-10.06	0
10	4182.00	0.80	102.80	4181.88	-10.28	-1.37	-10.30	0
11	4214.00	0.60	80.20	4213.88	-10.30	-0.99	-10.31	1
12	4246.00	2.80	13.80	4245.86	-9.52	-0.63	-9.52	8
13	4278.00	6.10	6.50	4277.76	-7.07	-0.26	-7.07	10
14	4309.00	9.70	1.30	4308.46	-2.82	-0.01	-2.82	12
15	4341.00	13.00	0.30	4339.83	3.48	0.07	3.48	10
16	4373.00	16.40	359.40	4370.78	11.60	0.04	11.60	11
17	4405.00	19.50	359.80	4401.22	21.46	-0.02	21.46	10
18	4436.00	20.20	359.10	4430.38	31.98	-0.13	31.98	2
19	4468.00	21.80	357.60	4460.25	43.44	-0.46	43.44	5
20	4500.00	24.80	356.90	4489.64	56.08	-1.07	56.07	9
21	4532.00	27.50	357.20	4518.36	70.17	-1.80	70.15	8
22	4563.00	30.50	357.70	4545.47	85.18	-2.46	85.15	10
23	4595.00	33.90	359.10	4572.55	102.22	-2.93	102.19	11
24	4627.00	36.70	1.40	4598.66	120.71	-2.84	120.68	10
25	4659.00	38.60	2.30	4624.00	140.24	-2.20	140.22	6
26	4691.00	41.10	1.70	4648.56	160.74	-1.49	160.71	8
27	4722.00	43.10	1.10	4671.56	181.51	-0.98	181.49	7
28	4754.00	45.50	1.00	4694.46	203.85	-0.57	203.84	8
29	4786.00	48.20	0.50	4716.35	227.20	-0.27	227.18	9
30	4818.00	51.90	0.10	4736.89	251.72	-0.14	251.71	12
31	4849.00	55.70	0.10	4755.19	276.73	-0.10	276.72	12
32	4881.00	59.30	359.80	4772.39	303.72	-0.13	303.70	11
33	4913.00	62.60	358.70	4787.92	331.69	-0.50	331.67	11
34	4945.00	65.60	358.80	4801.90	360.46	-1.12	360.43	9
35	4977.00	69.00	359.30	4814.25	389.97	-1.61	389.94	11
36	5008.00	71.90	359.70	4824.62	419.18	-1.87	419.15	9
37	5040.00	73.10	359.90	4834.24	449.70	-1.97	449.66	4
38	5072.00	75.50		4842.90	480.50	-2.00	480.46	8
39	5104.00	78.10	0.20	4850.21	511.66	-1.94	511.62	8
40	5135.00	80.50	0.30	4855.96	542.12	-1.81	542.07	8
41	5167.00	82.80	1.10	4860.61	573.77	-1.42	573.73	8
42	5193.00	84.60	1.10	4863.46	599.61	-0.93	599.57	7
43	5276.00	90.20	1.60	4867.22	682.47	1.03	682.45	7
44	5308.00	90.40	1.10	4867.06	714.46	1.78	714.44	2
45	5340.00	91.20	0.60	4866.61	746.45	2.25	746.44	3
46	5372.00	91.30	0.10	4865.91	778.44	2.45	778.43	2
47	5404.00	90.90		4865.30	810.44	2.48	810.42	1
48	5436.00	90.00	0.40	4865.05	842.43	2.59	842.42	3
49	5468.00	89.70	359.80	4865.13	874.43	2.65	874.42	2
50	5499.00	90.70	359.60	4865.02	905.43	2.48	905.42	3
51	5531.00	89.90	359.20	4864.85	937.43	2.15	937.41	3
52	5563.00	90.40	358.60	4864.77	969.42	1.53	969.40	2
53	5595.00	91.20	358.30	4864.32	1001.41	0.67	1001.37	3
54	5627.00	90.10	358.30	4863.96	1033.39	-0.28	1033.34	3
55	5659.00	89.20	358.10	4864.16	1065.38	-1.29	1065.32	3
56	5691.00	90.40	358.10	4864.27	1097.36	-2.35	1097.29	4
57	5723.00	90.90	357.10	4863.90	1129.33	-3.69	1129.24	3
58	5755.00	91.00	356.80	4863.37	1161.28	-5.39	1161.17	1
59	5803.00	91.00	357.00	4862.54	1209.20	-7.98	1209.07	0
60	5851.00	92.30	356.70	4861.15	1257.11	-10.62	1256.95	3
61	5899.00	93.00	356.20	4858.94	1304.96	-13.59	1304.78	2
62	5947.00	93.70	357.00	4856.13	1352.79	-16.43	1352.58	2
63	5979.00	94.00	357.20	4853.98	1384.68	-18.05	1384.45	1
64	6011.00	93.80	358.30	4851.80	1416.58	-19.30	1416.34	3
65	6043.00	92.30	358.50	4850.10	1448.52	-20.19	1448.27	5
66	6075.00	91.20	359.60	4849.13	1480.50	-20.72	1480.24	5
67	6107.00	90.00		4848.79	1512.50	-20.83	1512.24	4
68	6139.00	90.00	1.00	4848.79	1544.50	-20.56	1544.24	3
69	6171.00	89.90		4848.82	1576.50	-20.28	1576.24	3
70	6203.00	90.20	1.10	4848.79	1608.50	-19.97	1608.24	4
71	6235.00	90.40	1.30	4848.62	1640.49	-19.30	1640.23	1

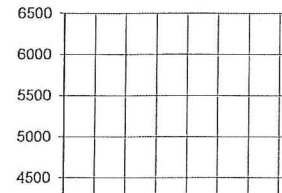




RIG: Lariat Rig 45

WELL: Bernice 1-17H
 LOCATION: 200' FSL & 1,980' FWL of 17-T35S-R7W
 BHL: 1,720' FSL & 1,980' FWL of 8-T35S-R7W

Target Direction: 359 deg
 North/South Hard Line: -200
 East/West Hard Line: -1980



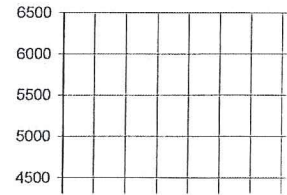
STATION	SURVEY							VERT.	DLS/100
NUMBER	DEPTH	INC	AZMTH	TVD	N-S	E-W	SECTION		
72	6267.00	90.70	1.70	4848.32	1672.48	-18.46	1672.23	2	
73	6299.00	90.10	1.20	4848.09	1704.46	-17.65	1704.22	2	
74	6331.00	88.90	0.90	4848.37	1736.46	-17.07	1736.22	4	
75	6363.00	88.50	0.40	4849.10	1768.45	-16.70	1768.21	2	
76	6395.00	88.70	359.80	4849.88	1800.44	-16.65	1800.20	2	
77	6427.00	90.00	359.60	4850.24	1832.43	-16.81	1832.19	4	
78	6459.00	90.10		4850.21	1864.43	-16.93	1864.19	1	
79	6491.00	90.10	359.30	4850.16	1896.43	-17.12	1896.19	2	
80	6523.00	89.60	358.40	4850.24	1928.43	-17.76	1928.17	3	
81	6571.00	89.80	356.60	4850.49	1976.38	-19.86	1976.10	4	
82	6619.00	91.40	357.30	4849.99	2024.30	-22.41	2024.00	4	
83	6651.00	92.00	356.80	4849.04	2056.25	-24.06	2055.93	2	
84	6683.00	92.10	357.00	4847.90	2088.18	-25.79	2087.84	1	
85	6715.00	91.20	356.80	4846.98	2120.12	-27.52	2119.77	3	
86	6747.00	90.60	355.90	4846.47	2152.05	-29.55	2151.68	3	
87	6778.00	89.90	356.30	4846.34	2182.98	-31.66	2182.58	3	
88	6810.00	89.80	356.70	4846.42	2214.92	-33.61	2214.50	1	
89	6841.00	89.50	357.10	4846.61	2245.87	-35.29	2245.44	2	
90	6872.00	89.80	358.20	4846.80	2276.85	-36.56	2276.40	4	
91	6904.00	90.20	358.00	4846.80	2308.83	-37.62	2308.37	1	
92	6936.00	90.60	359.70	4846.58	2340.82	-38.27	2340.35	5	
93	6968.00	90.60	359.60	4846.24	2372.82	-38.46	2372.35	0	
94	7000.00	90.90	359.60	4845.82	2404.81	-38.68	2404.34	1	
95	7032.00	90.90	1.60	4845.32	2436.81	-38.35	2436.34	6	
96	7064.00	91.30	1.20	4844.71	2468.79	-37.57	2468.33	2	
97	7096.00	90.40	2.20	4844.23	2500.77	-36.62	2500.32	4	
98	7128.00	89.70	2.20	4844.20	2532.75	-35.39	2532.30	2	
99	7160.00	90.10	2.70	4844.26	2564.72	-34.02	2564.28	2	
100	7192.00	89.30	2.20	4844.43	2596.69	-32.65	2596.27	3	
101	7224.00	89.20	2.50	4844.85	2628.66	-31.34	2628.25	1	
102	7256.00	88.80	3.10	4845.40	2660.62	-29.78	2660.22	2	
103	7288.00	88.80	2.20	4846.07	2692.57	-28.30	2692.19	3	
104	7320.00	89.00	2.50	4846.69	2724.54	-26.99	2724.17	1	
105	7352.00	89.70	1.50	4847.05	2756.52	-25.87	2756.15	4	
106	7384.00	90.90	0.90	4846.88	2788.51	-25.20	2788.15	4	
107	7416.00	91.60	0.90	4846.19	2820.50	-24.70	2820.14	2	
108	7448.00	92.00	0.90	4845.18	2852.48	-24.20	2852.12	1	
109	7480.00	92.30	359.80	4843.98	2884.46	-24.00	2884.10	4	
110	7512.00	90.90	1.10	4843.09	2916.44	-23.75	2916.09	6	
111	7544.00	89.90	0.80	4842.86	2948.44	-23.22	2948.09	3	
112	7576.00	90.00	0.60	4842.89	2980.43	-22.83	2980.09	1	
113	7608.00	90.10	359.90	4842.86	3012.43	-22.69	3012.08	2	
114	7640.00	90.00		4842.83	3044.43	-22.72	3044.08	0	
115	7672.00	89.80	0.10	4842.89	3076.43	-22.69	3076.08	1	
116	7704.00	89.80	359.50	4843.00	3108.43	-22.80	3108.08	2	
117	7736.00	90.00	359.10	4843.06	3140.43	-23.19	3140.07	1	
118	7768.00	90.50	359.10	4842.92	3172.43	-23.69	3172.06	2	
119	7800.00	90.80	358.70	4842.56	3204.42	-24.31	3204.05	2	
120	7832.00	90.90	359.20	4842.08	3236.41	-24.89	3236.03	2	
121	7864.00	90.80	359.80	4841.61	3268.40	-25.17	3268.02	2	
122	7896.00	91.30	359.40	4841.04	3299.40	-25.39	3299.01	2	
123	7927.00	90.90	359.40	4840.42	3331.39	-25.73	3331.00	1	
124	7959.00	91.10	359.50	4839.87	3363.38	-26.03	3362.99	1	
125	7991.00	91.50	358.80	4839.14	3395.37	-26.51	3394.97	3	
126	8023.00	90.70	358.60	4838.53	3427.36	-27.23	3426.95	3	
127	8055.00	89.80	359.10	4838.39	3459.35	-27.87	3458.93	3	
128	8087.00	88.00	358.90	4839.00	3491.34	-28.43	3490.91	6	
129	8119.00	88.00	359.40	4840.12	3523.31	-28.91	3522.89	2	
130	8151.00	88.30	358.90	4841.15	3555.29	-29.38	3554.86	2	
131	8183.00	88.40	359.30	4842.07	3587.28	-29.88	3586.84	1	
132	8215.00	88.40	359.30	4842.96	3619.26	-30.28	3618.82		
133	8246.00	88.90	359.20	4843.69	3650.25	-30.68	3649.80	2	
134	8278.00	88.90	359.00	4844.31	3682.24	-31.18	3681.78	1	
135	8310.00	89.00	358.50	4844.90	3714.23	-31.88	3713.76	2	
136	8342.00	91.00	358.40	4844.90	3746.21	-32.75	3745.74	6	
137	8374.00	92.70	358.20	4843.86	3778.18	-33.70	3777.70	5	
138	8406.00	92.80	357.30	4842.33	3810.12	-34.95	3809.62	3	
139	8438.00	93.20	357.90	4840.65	3842.05	-36.29	3841.54	2	
140	8470.00	93.10	357.60	4838.89	3873.98	-37.54	3873.45	1	
141	8502.00	92.40	357.30	4837.36	3905.91	-38.97	3905.37	2	
142	8534.00	92.60	356.80	4835.96	3937.83	-40.61	3937.28	2	
143	8566.00	92.20	358.20	4834.62	3969.77	-42.01	3969.20	5	
144	8598.00	92.00	357.50	4833.45	4001.73	-43.20	4001.14	2	



RIG: Lariat Rig 45

WELL: Bernice 1-17H
 LOCATION: 200' FSL & 1,980' FWL of 17-T35S-R7W
 BHL: 1,720' FSL & 1,980' FWL of 8-T35S-R7W

Target Direction: 359 deg
 North/South Hard Line: -200
 East/West Hard Line: -1980



STATION NUMBER	SURVEY DEPTH	INC	AZMTH	TVD	N-S	E-W	VERT. SECTION	DLS/100
145	8629.00	90.50	358.00	4832.77	4032.70	-44.42	4032.10	5
146	8661.00	89.70	357.70	4832.72	4064.67	-45.62	4064.06	3
147	8693.00	89.60	357.30	4832.91	4096.64	-47.02	4096.02	1
148	8725.00	89.20	357.70	4833.25	4128.61	-48.41	4127.97	2
149	8757.00	88.90	357.90	4833.78	4160.58	-49.64	4159.93	1
150	8789.00	88.70	357.50	4834.45	4192.55	-50.93	4191.88	1
151	8821.00	89.10	357.90	4835.06	4224.52	-52.21	4223.84	2
152	8853.00	89.00	357.50	4835.59	4256.49	-53.49	4255.80	1
153	8885.00	89.40	358.40	4836.04	4288.46	-54.64	4287.76	3
154	8917.00	90.00	358.10	4836.21	4320.45	-55.62	4319.73	2
155	8949.00	89.50	358.40	4836.35	4352.43	-56.59	4351.71	2
156	8981.00	89.20	357.90	4836.71	4384.41	-57.63	4383.68	2
157	9013.00	88.40	357.10	4837.38	4416.38	-59.02	4415.62	4
158	9045.00	88.60	358.50	4838.22	4448.34	-60.25	4447.58	4
159	9077.00	89.90	358.20	4838.64	4480.32	-61.17	4479.55	4
160	9109.00	89.30	358.70	4838.86	4512.31	-62.04	4511.53	2
161	9141.00	91.10	358.80	4838.75	4544.30	-62.73	4543.51	6
162	9173.00	90.50	359.00	4838.30	4576.29	-63.35	4575.49	2
163	9205.00	91.30	358.80	4837.80	4608.28	-63.96	4607.48	3
164	9236.00	90.90	358.10	4837.21	4639.27	-64.80	4638.45	3
165	9268.00	90.60	358.40	4836.79	4671.25	-65.78	4670.42	1
166	9300.00	89.80	358.40	4836.67	4703.24	-66.67	4702.40	2
167	9332.00	90.00	358.90	4836.73	4735.23	-67.43	4734.38	2
168	9364.00	90.70	358.40	4836.54	4767.22	-68.18	4766.36	3
169	9396.00	90.10	358.20	4836.31	4799.20	-69.13	4798.34	2
170	9440.00	90.10	358.20	4836.23	4843.18	-70.51	4842.30	
171	9486.00	90.10	358.20	4836.15	4889.16	-71.96	4888.26	
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