



Weatherford

Evaluation, Drilling & Intervention
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Devon Energy
333 W. Sheridan Ave
Oklahoma City, OK, 73102

Date: September 10, 2016

NM OIL CONSERVATION
ARTESIA DISTRICT

FEB 6 2017

Attention: Garrett Glaze

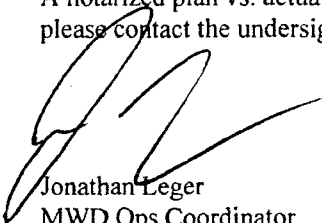
Re: Devon Energy
Well: Big Sinks Draw 25 Fed Com 4H
Eddy County, New Mexico

RECEIVED

Enclosed, please find the original survey performed on the referenced well by Precision Energy Services, Inc. (P-5 No. 676004), a Weatherford company. Other information required by your office is as follows:

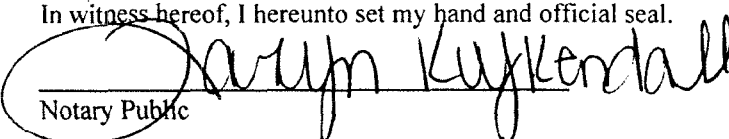
Name & Title Of Surveyor	Well Number	Surveyed Depths	Dates Performed	Type of Survey
Andrew Schmidt MWD Supervisor	4H	4361 MD 17697 MD	9/17/2016 9/29/2016	Measurement While Drilling

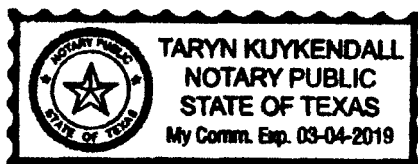
A notarized plan vs. actual is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.


Jonathan Leger
MWD Ops Coordinator

On this, the 14th day of December, 2016, before me a notary public, the undersigned officer, personally appeared Jonathan Leger, known to me (or satisfactorily proven) to be the person whose name is subscribed to the within instrument, and acknowledged that he executed the same for the purposes therein contained.

In witness hereof, I hereunto set my hand and official seal.


Notary Public



FEB 6 2017

RECEIVED



5D Survey Report

Devon Energy

Field Name: *Eddy Co, NM (Nad 83 NME)*
Site Name: *Big Sinks Draw 25 Fed Com 4H*
Well Name: *Big Sinks Draw 25 Fed Com 4H*
Survey: *Definitive survey*

29 September 2016



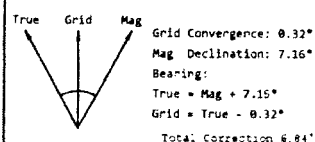


Devon Energy
Big Sinks Draw 25 Fed Com 4H
Eddy Co, NM



Plan Data for Big Sinks Draw 25 Fed Com 4H

Plan Point Information:									
Dogleg Severity Unit: */100.00ft Position offsets from Slot centre									
MD	Inc	Az	TVD	+N/-S	+E/-W	Northing	Easting	Vsec	DLS Comments
(USft)	(°)	(°)	(USft)	(USft)	(USft)	(USft)	(USft)	(DLSU)	
9847.00	1.06	227.12	9845.10	-85.68	-53.64	481232.03	729595.37	-85.82	0.14 Tie-on Svy
9914.00	1.06	227.12	9912.09	-86.53	-54.54	481231.18	729594.47	-86.67	0.00 KOP/Build 9.29° DLS
10137.22	20.00	0.15	10130.96	-49.35	-55.97	481268.36	729593.04	-49.50	9.29 Build 12° DLS
10720.57	90.00	0.15	10445.12	399.33	-54.77	481717.04	729594.24	399.18	12.00 LP
15121.25	90.00	0.15	10445.12	4800.00	-42.91	486117.71	729606.10	4799.87	0.00 Mid Pt
15154.01	89.67	0.15	10445.21	4832.75	-42.83	486150.46	729606.18	4832.62	1.00 Hold
17749.52	89.67	0.15	10460.12	7428.21	-35.87	488745.92	729613.14	7428.09	0.00 PBHL 4H



Plan Data for Big Sinks Draw 25 Fed Com 4H

Field: Eddy Co, NM (Mag 83 NME)
Vertical Reference Datum (VRD): Mean Sea Level
Projected Coordinate System: NAD83 / New Mexico East (ftUS)

Site: Big Sinks Draw 25 Fed Com 4H
Unit: USFeet TVD Reference:
Company Name: Devon Energy
Position: Northing: 481317.71USft Latitude: 32.101842°
Easting: 729649.01USft Longitude: -103.725185°
North Reference: Grid Grid Convergence: 0.32°
Elevation Above VRD: 3340.00USft

Slot: Big Sinks Draw 25 Fed Com 4H
Position:
Offset is from Site centre
+N/-S: 0.00USft Northing: 481317.71USft Latitude: 32.101842°
+E/-W: 0.00USft Easting: 729649.01USft Longitude: -103.725185°
Elevation Above VRD: 3340.00USft

Well: Big Sinks Draw 25 Fed Com 4H
Type: Main-well
File Number:

Plan Folder: P3 Plan: P3:V1
Vertical Section: Position offset of origin from Slot centre:
+N/-S: -0.00USft Azimuth: 0.15°
+E/-W: -0.00USft

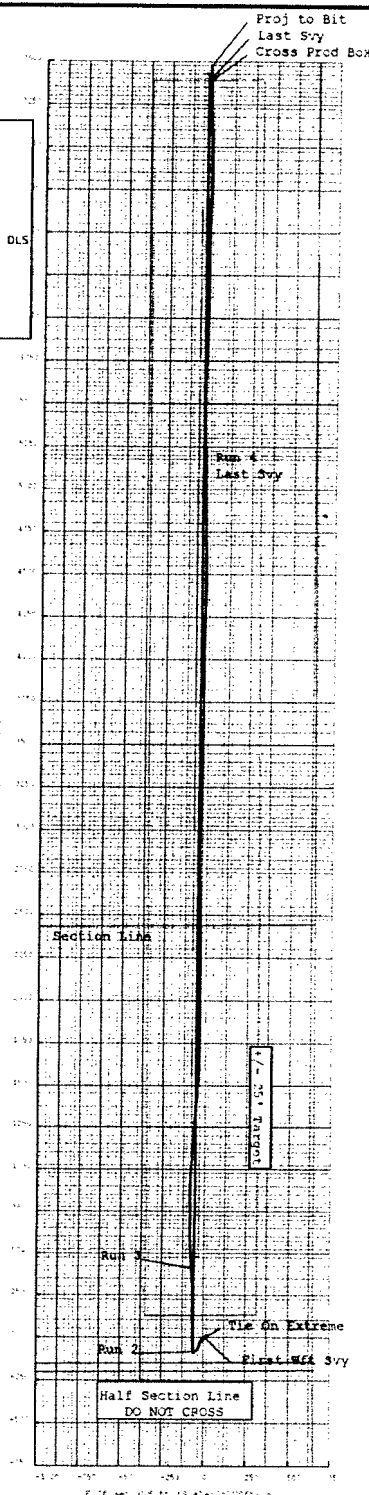
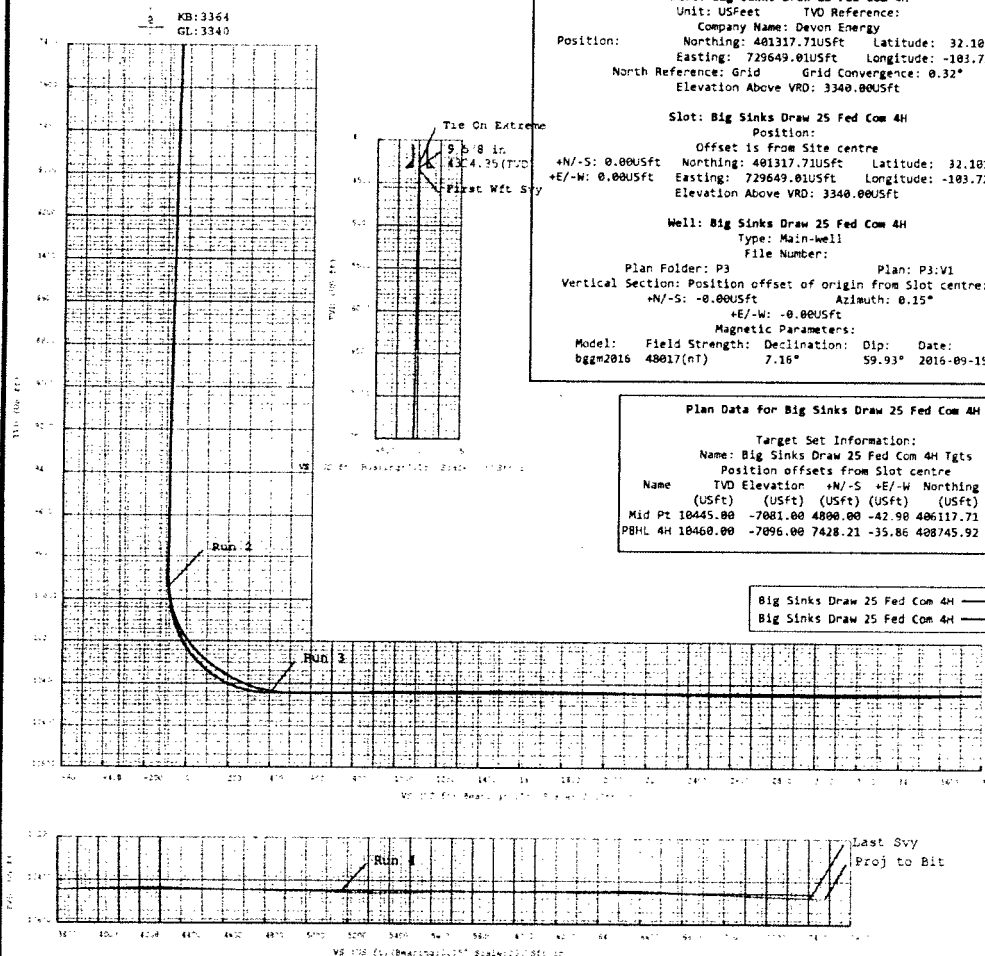
Magnetic Parameters:
Model: Field Strength: Declination: Dip: Date:
bgm2016 48017(nt) 7.16° 59.93° 2016-09-15

Plan Data for Big Sinks Draw 25 Fed Com 4H

Target Set Information:
Name: Big Sinks Draw 25 Fed Com 4H Tgts
Position offsets from Slot centre

Name	TVD Elevation	+N/-S	+E/-W	Northing	Easting
(USft)	(USft)	(USft)	(USft)	(USft)	(USft)
Mid Pt	10445.00	-7081.00	4800.00	-42.90	486117.71 729606.11
PBHL 4H	10460.00	-7096.00	7428.21	-35.86	488745.92 729613.15

Big Sinks Draw 25 Fed Com 4H
Big Sinks Draw 25 Fed Com 4H





Big Sinks Draw 25 Fed Com 4H

Field Name: Early Co. NM (Nad 83 NME)	Map Units: US ft	Company Name: Devon Energy	
	Vertical Reference Datum (VRD): Mean Sea Level		
	Projected Coordinate System: NAD83 / New Mexico East (ftUS)		
	Comment:		
Site: Big Sinks Draw 25 Fed Com 4H	Units: US ft	North Reference: Grid	Convergence Angle: 0.32
	Elevation above MSL: 3340.00 US ft		
Comment:			
Slot: Big Sinks Draw 25 Fed Com 4H	Slot TVD Reference: Ground Elevation		
	Elevation above MSL: 3340.00 US ft		
	Comment:		
Well: Big Sinks Draw 25 Fed Com 4H	Type: Main well	UWI:	
	File Number:	Comment:	
	Closure Distance: 7477.97 US ft	Closure Azimuth: 359.84°	
	Vertical Section: Position of Origin (Relative to Slot centre)		
	+N/-S: -0.00 US ft	+E/-W: -0.00 US ft	Az: 0.15°
Drill floor: Survey Name: Definitive Survey			
Rig Height (Drill Floor): 24.00 US ft	Elevation above MSL: 3364.00 US ft	Inclination: 0.00°	Azimuth: 0.00°

Survey Name: Definitive Survey						
Date: 06/Sep/2016	Survey Tool: See Survey Tool Ranges below.		Comment:	Company:		
Magnetic Model:						
Model Name: bggm2016	Date: 15/Sep/2016	Field Strength: 48017.7nT	Declination: 7.16°	Dip: 59.93°		
Tie Point:						
MD: 0.00 US ft	Inclination: 0.00°	Azimuth: 0.00°	TVD: -0.00 US ft	North Offset: -0.00 US ft	East Offset: -0.00 US ft	
Survey Tool Ranges:						
Name	Start MD (US ft)	End MD (US ft)	Source Survey			
	0.00	4268.00	Extreme Svy			
	4268.00	9847.00	Wrt MWD Svy (1)			
	9847.00	10652.00	Wrt MWD Svy (2)			
	10652.00	15359.00	Wrt MWD Svy (3)			

5D Survey Report

Survey Tool Ranges:			
Name	Start MD(usft)	End MD(usft)	Source Survey
WFL MWD Svy (4)	15359.00	17770.00	WFL MWD Svy (4)

Casing Points: (Relative to Slot centre)(TVD relative to Drill Floor)								
MD (usft)	Delta MD (usft)	TVD (usft)	Delta TVD (usft)	MD (usft)	Delta MD (usft)	TVD (usft)	Delta TVD (usft)	Delta MD (usft)
1037.00	2.60	72.60	1036.81	-7.29	9.98	401310.42	729658.99	13 3/8 in
4325.00	0.59	140.07	4324.35	-2.97	12.27	401314.74	729661.28	9 5/8 in

Wellpath created using minimum curvature.

Survey Points: (Relative to Slot centre)(TVD relative to Drill Floor)									
MD (usft)	Delta MD (usft)	TVD (usft)	Delta TVD (usft)	MD (usft)	Delta MD (usft)	TVD (usft)	Delta TVD (usft)	MD (usft)	Delta MD (usft)
0.00	0.00	0.00	-0.00	-0.00	-0.00	0.00	0.00	401317.71	729649.01
139.00	0.70	101.23	139.00	-0.17	0.83	-0.16	0.50	401317.54	729649.84
205.00	0.88	117.54	204.99	-0.48	1.68	-0.47	0.43	401317.23	729650.69
266.00	0.79	141.05	265.98	-1.02	2.36	-1.02	0.58	401316.69	729651.37
357.00	0.62	136.04	356.98	-1.86	3.09	-1.86	0.20	401315.85	729652.10
449.00	0.70	160.25	448.97	-2.75	3.63	-2.74	0.31	401314.96	729652.64
548.00	0.88	196.02	547.96	-4.05	3.62	-4.04	0.52	401313.66	729652.63
636.00	1.32	209.32	635.95	-5.58	2.94	-5.58	0.57	401312.13	729651.95
728.00	0.70	161.66	727.93	-7.04	2.60	-7.04	1.08	401310.67	729651.61
820.00	0.88	114.73	819.92	-7.87	3.42	-7.86	0.71	401309.84	729652.43
925.00	1.80	87.26	924.90	-8.13	5.80	-8.11	1.04	401309.58	729654.81
1063.00	2.80	70.44	1062.78	-6.90	11.14	-6.87	0.87	401310.81	729660.15
1158.00	2.81	70.12	1157.67	-5.33	15.51	-5.29	0.02	401312.38	729664.52
1249.00	1.89	67.22	1248.59	-3.99	19.00	-3.94	1.02	401313.72	729668.01
1340.00	1.58	69.73	1339.55	-2.97	21.56	-2.92	0.35	401314.74	729670.57
1435.00	1.10	50.96	1434.53	-1.95	23.49	-1.88	0.68	401315.76	729672.50
1530.00	0.31	350.54	1529.52	-1.12	24.16	-1.05	1.04	401316.59	729673.17
1625.00	0.40	327.55	1624.52	-0.58	23.94	-0.52	0.18	401317.13	729672.95
1720.00	0.50	7.44	1719.51	0.11	23.81	0.17	0.34	401317.82	729672.82
1813.00	0.48	343.64	1812.51	0.88	23.76	0.95	0.22	401318.59	729672.77
1908.00	0.40	11.14	1907.51	1.59	23.71	1.65	0.23	401319.30	729672.72
2004.00	0.10	289.84	2003.51	1.95	23.70	2.01	0.41	401319.66	729672.71
2099.00	0.30	345.44	2098.51	2.22	23.55	2.28	0.27	401319.93	729672.56
2193.00	0.22	296.22	2192.51	2.53	23.33	2.60	0.24	401320.24	729672.34
2288.00	0.10	62.14	2287.51	2.65	23.24	2.71	0.31	401320.36	729672.25
2383.00	0.31	252.32	2382.51	2.61	23.07	2.67	0.43	401320.32	729672.08
2478.00	0.40	246.04	2477.50	2.40	22.52	2.46	0.10	401320.11	729671.53
2573.00	1.49	262.25	2572.49	2.10	20.99	2.16	1.17	401319.81	729670.00
2668.00	1.10	272.44	2667.46	1.97	18.86	2.02	0.48	401319.68	729667.87
2762.00	1.01	261.55	2761.45	1.89	17.14	1.93	0.23	401319.60	729666.15
2857.00	0.62	271.26	2856.44	1.78	15.80	1.82	0.43	401319.49	729664.81
2951.00	0.79	262.95	2950.43	1.71	14.64	1.75	0.21	401319.42	729663.65
3047.00	0.79	266.42	3046.42	1.59	13.33	1.62	0.05	401319.30	729662.34
3141.00	0.62	265.85	3140.42	1.51	12.17	1.54	0.18	401319.22	729661.18
3236.00	0.40	240.04	3235.41	1.31	11.37	1.34	0.33	401319.02	729660.38
3330.00	0.20	221.54	3329.41	1.02	10.98	1.05	0.23	401318.73	729659.99
3425.00	0.62	292.35	3424.41	1.09	10.40	1.12	0.62	401318.80	729659.41
3519.00	0.70	293.76	3518.40	1.52	9.40	1.54	0.09	401319.23	729658.41
3614.00	0.40	296.84	3613.40	1.90	8.57	1.92	0.32	401319.61	729657.58
3708.00	0.31	207.54	3707.40	1.82	8.16	1.84	0.54	401319.53	729657.17
3803.00	0.09	219.93	3802.40	1.54	8.00	1.56	0.23	401319.25	729657.01
3898.00	0.48	134.55	3897.39	1.20	8.23	1.22	0.51	401318.91	729657.24
3992.00	0.48	129.62	3991.39	0.67	8.81	0.70	0.04	401318.38	729657.82
4068.00	1.01	131.44	4067.38	0.03	9.56	0.05	0.70	401317.74	729658.57
4181.00	1.01	138.32	4180.37	-1.38	10.97	-1.35	0.11	401316.33	729659.98
4268.00	0.79	143.03	4267.36	-2.43	11.84	-2.40	0.27	401315.28	729660.85

Tie On
Extreme

SD Survey Report

Survey Points: (Relative to Slot centre)(TVD relative to Drill Floor)										
Time (min)	Rate (m/min)	Depth (m)	True Depth (m)	Depth Error (m)	Depth Error (ft)	Depth Error (in)	Depth Error (mm)	Depth Error (cm)	Depth Error (m)	Depth Error (ft)
4361.00	0.47	136.93	4360.35	-3.22	12.49	-3.19	0.35	401314.49	729661.50	First Wft Svy
4455.00	0.69	227.63	4454.35	-3.88	12.33	-3.85	0.89	401313.83	729661.34	
4550.00	0.93	224.61	4549.34	-4.82	11.37	-4.79	0.26	401312.89	729660.38	
4645.00	0.88	238.57	4644.33	-5.75	10.20	-5.72	0.24	401311.96	729659.21	
4740.00	0.76	235.23	4739.32	-6.49	9.06	-6.46	0.14	401311.22	729658.07	
4834.00	0.82	234.63	4833.31	-7.23	8.00	-7.21	0.06	401310.48	729657.01	
4929.00	0.85	242.66	4928.30	-7.95	6.82	-7.93	0.13	401309.76	729655.83	
5023.00	0.53	247.10	5022.29	-8.44	5.80	-8.42	0.34	401309.27	729654.81	
5118.00	0.69	233.39	5117.29	-8.95	4.94	-8.94	0.23	401308.76	729653.95	
5213.00	0.77	220.57	5212.28	-9.77	4.07	-9.76	0.19	401307.94	729653.08	
5308.00	0.66	220.28	5307.27	-10.68	3.30	-10.67	0.12	401307.03	729652.31	
5402.00	0.45	236.21	5401.27	-11.30	2.64	-11.29	0.28	401306.41	729651.65	
5497.00	0.76	223.49	5496.26	-11.96	1.90	-11.95	0.35	401305.75	729650.91	
5591.00	0.64	221.67	5590.25	-12.80	1.12	-12.80	0.13	401304.91	729650.13	
5686.00	0.77	230.88	5685.25	-13.60	0.27	-13.60	0.18	401304.11	729649.28	
5781.00	0.82	237.61	5780.24	-14.37	-0.80	-14.37	0.11	401303.34	729648.21	
5876.00	0.91	218.10	5875.23	-15.33	-1.84	-15.33	0.32	401302.38	729647.17	
5970.00	0.63	223.82	5969.22	-16.29	-2.66	-16.30	0.31	401301.42	729646.35	
6065.00	0.82	234.85	6064.21	-17.06	-3.57	-17.07	0.25	401300.65	729645.44	
6160.00	0.64	231.56	6159.20	-17.78	-4.55	-17.79	0.19	401299.93	729644.46	
6254.00	0.85	215.66	6253.19	-18.67	-5.36	-18.68	0.31	401299.04	729643.65	
6349.00	0.98	218.03	6348.18	-19.88	-6.27	-19.90	0.14	401297.83	729642.74	
6444.00	0.55	142.06	6443.18	-20.88	-6.49	-20.90	1.05	401296.83	729642.52	
6539.00	0.89	200.03	6538.17	-21.94	-6.47	-21.95	0.80	401295.77	729642.54	
6633.00	0.85	192.87	6632.16	-23.30	-6.87	-23.32	0.12	401294.41	729642.14	
6728.00	1.19	203.71	6727.14	-24.89	-7.43	-24.91	0.41	401292.82	729641.58	
6823.00	1.13	207.18	6822.12	-26.63	-8.25	-26.65	0.10	401291.08	729640.76	
6918.00	1.43	217.83	6917.10	-28.40	-9.41	-28.42	0.40	401289.31	729639.60	
7012.00	1.42	223.70	7011.07	-30.17	-10.93	-30.19	0.16	401287.54	729638.08	
7107.00	1.48	217.79	7106.04	-31.99	-12.49	-32.02	0.17	401285.72	729636.52	
7202.00	0.88	220.25	7201.02	-33.51	-13.72	-33.55	0.63	401284.20	729635.29	
7296.00	1.38	204.52	7295.00	-35.09	-14.65	-35.13	0.62	401282.62	729634.36	
7391.00	1.63	212.11	7389.97	-37.28	-15.85	-37.32	0.34	401280.43	729633.16	
7486.00	1.50	211.11	7484.93	-39.49	-17.21	-39.53	0.14	401278.22	729631.80	
7581.00	1.36	206.20	7579.90	-41.56	-18.35	-41.61	0.20	401276.15	729630.66	
7675.00	1.55	197.96	7673.87	-43.77	-19.23	-43.82	0.30	401273.94	729629.78	
7770.00	1.53	189.94	7768.84	-46.25	-19.85	-46.30	0.23	401271.46	729629.16	
7865.00	1.42	198.80	7863.81	-48.61	-20.45	-48.66	0.27	401269.10	729628.56	
7960.00	1.48	197.24	7958.78	-50.90	-21.19	-50.95	0.08	401266.81	729627.82	
8054.00	1.51	201.22	8052.75	-53.21	-22.00	-53.27	0.11	401264.50	729627.01	
8149.00	1.28	196.77	8147.72	-55.39	-22.76	-55.45	0.27	401262.32	729626.25	
8244.00	1.24	202.10	8242.69	-57.36	-23.45	-57.42	0.13	401260.35	729625.56	
8338.00	1.67	199.18	8336.66	-59.60	-24.28	-59.66	0.46	401258.11	729624.73	
8433.00	1.65	200.95	8431.62	-62.18	-25.23	-62.25	0.06	401255.53	729623.78	
8528.00	1.36	202.78	8526.59	-64.50	-26.15	-64.57	0.31	401253.21	729622.86	
8622.00	1.12	215.43	8620.57	-66.27	-27.12	-66.35	0.39	401251.44	729621.89	
8717.00	1.65	224.28	8715.54	-68.01	-28.61	-68.09	0.60	401249.70	729620.40	
8812.00	1.85	227.03	8810.50	-70.03	-30.69	-70.11	0.23	401247.68	729618.32	
8906.00	2.04	233.73	8904.44	-72.06	-33.14	-72.15	0.31	401245.65	729615.87	
9001.00	1.87	231.68	8999.39	-74.02	-35.72	-74.11	0.19	401243.69	729613.29	
9095.00	1.98	241.88	9093.33	-75.74	-38.36	-75.84	0.38	401241.97	729610.65	
9190.00	1.90	226.14	9188.28	-77.60	-40.94	-77.71	0.57	401240.11	729608.07	
9285.00	1.19	239.36	9283.25	-79.20	-42.93	-79.31	0.83	401238.51	729606.08	
9474.00	1.15	241.68	9472.21	-81.10	-46.28	-81.22	0.03	401236.61	729602.73	
9569.00	1.44	246.71	9567.18	-82.02	-48.22	-82.15	0.33	401235.69	729600.79	
9664.00	1.69	242.76	9662.15	-83.13	-50.56	-83.26	0.29	401234.58	729598.45	
9758.00	1.15	222.40	9756.12	-84.46	-52.43	-84.60	0.78	401233.25	729596.58	
9847.00	1.06	227.12	9845.10	-85.68	-53.64	-85.82	0.14	401232.03	729595.37	
9942.00	3.62	346.30	9940.04	-83.37	-54.99	-83.51	4.46	401234.34	729594.02	Run 2

SD Survey Report

Survey Points: (Relative to Slot centre)(TVD relative to Drill Floor)										
Point ID	Depth (m)	Age (yr)	True Depth (m)	Height (m)	Height (m)	Weight (kg)	Volume (m³)	Temperature (°C)	Pressure (kPa)	Comments
9989.00	9.12	356.09	9986.74	-78.20	-55.60	-78.35	11.89	401239.51	729593.41	
10036.00	14.31	358.38	10032.74	-68.68	-56.02	-68.82	11.08	401249.03	729592.99	
10083.00	19.62	356.30	10077.68	-54.99	-56.69	-55.13	11.37	401262.72	729592.32	
10131.00	26.07	359.06	10121.89	-36.38	-57.38	-36.53	13.62	401281.33	729591.63	
10178.00	32.10	359.90	10162.95	-13.54	-57.57	-13.69	12.86	401304.17	729591.44	
10226.00	37.47	358.97	10202.36	13.83	-57.86	13.68	11.24	401331.54	729591.15	
10273.00	42.51	358.20	10238.35	44.01	-58.62	43.86	10.77	401361.72	729590.39	
10321.00	46.41	358.23	10272.61	77.61	-59.66	77.45	8.13	401395.32	729589.35	
10368.00	51.46	358.55	10303.47	113.02	-60.65	112.86	10.76	401430.73	729588.36	
10388.00	53.47	359.14	10315.66	128.88	-60.97	128.72	10.32	401446.59	729588.04	Cross Prod Box
10415.00	56.44	359.95	10331.16	150.98	-61.15	150.82	11.27	401468.69	729587.86	
10462.00	60.72	0.59	10355.65	191.08	-60.95	190.92	9.18	401508.79	729588.06	
10510.00	63.20	359.74	10378.22	233.44	-60.83	233.28	5.40	401551.15	729588.18	
10557.00	66.13	359.26	10398.33	275.91	-61.21	275.75	6.30	401593.62	729587.80	
10605.00	71.61	358.31	10415.62	320.66	-62.16	320.49	11.56	401638.37	729586.85	
10652.00	77.87	356.13	10427.99	365.92	-64.37	365.75	14.05	401683.63	729584.64	
10699.00	80.81	354.36	10436.68	411.94	-68.20	411.76	7.27	401729.65	729580.81	Run 3
10723.00	82.91	355.30	10440.08	435.60	-70.34	435.42	9.57	401753.31	729578.67	
10786.00	86.64	356.76	10445.82	498.18	-74.68	497.98	6.35	401815.89	729574.33	
10818.00	88.95	357.50	10447.05	530.11	-76.29	529.91	7.58	401847.82	729572.72	
10913.00	91.12	359.10	10446.99	625.06	-79.10	624.85	2.84	401942.77	729569.91	
11007.00	91.54	359.68	10444.81	719.03	-80.10	718.82	0.76	402036.74	729568.91	
11102.00	90.63	358.97	10443.01	814.00	-81.22	813.79	1.21	402131.71	729567.79	
11197.00	91.54	0.94	10441.21	908.98	-81.30	908.77	2.28	402226.69	729567.71	
11292.00	90.77	3.45	10439.30	1003.88	-77.66	1003.68	2.76	402321.59	729571.35	
11385.00	90.14	4.29	10438.56	1096.67	-71.38	1096.48	1.13	402414.38	729577.63	
11480.00	90.63	5.23	10437.92	1191.34	-63.50	1191.17	1.12	402509.05	729585.51	
11574.00	90.70	4.30	10436.83	1285.01	-55.69	1284.85	0.99	402602.72	729593.32	
11668.00	90.07	4.32	10436.20	1378.74	-48.63	1378.60	0.67	402696.45	729600.38	
11763.00	91.26	3.76	10435.09	1473.49	-41.94	1473.38	1.38	402791.20	729607.07	
11858.00	90.21	1.99	10433.87	1568.36	-37.17	1568.26	2.17	402886.07	729611.84	
11953.00	88.81	1.58	10434.69	1663.31	-34.21	1663.21	1.54	402981.02	729614.80	
12047.00	88.95	1.06	10436.52	1757.26	-32.05	1757.17	0.57	403074.97	729616.96	
12142.00	89.44	1.75	10437.86	1852.23	-29.72	1852.14	0.89	403169.94	729619.29	
12236.00	89.23	359.43	10438.95	1946.21	-28.75	1946.13	2.48	403263.92	729620.26	
12330.00	88.67	359.16	10440.67	2040.18	-29.91	2040.10	0.66	403357.89	729619.10	
12425.00	88.60	359.83	10442.94	2135.15	-30.74	2135.07	0.71	403452.86	729618.27	
12520.00	88.67	0.40	10445.20	2230.13	-30.55	2230.04	0.60	403547.84	729618.46	
12614.00	88.74	0.05	10447.32	2324.10	-30.18	2324.01	0.38	403641.81	729618.83	
12708.00	89.09	358.46	10449.10	2418.07	-31.41	2417.98	1.73	403735.78	729617.60	
12802.00	88.74	358.40	10450.88	2512.02	-33.98	2511.92	0.38	403829.73	729615.03	
12896.00	89.79	359.70	10452.09	2606.00	-35.54	2605.89	1.78	403923.71	729613.47	
13085.00	90.35	358.95	10451.86	2794.98	-37.77	2794.87	0.50	404112.69	729611.24	
13181.00	89.58	0.06	10451.92	2890.98	-38.60	2890.86	1.41	404208.69	729610.41	
13276.00	89.72	1.11	10452.50	2985.97	-37.63	2985.86	1.12	404303.68	729611.38	
13370.00	89.44	1.55	10453.19	3079.94	-35.44	3079.84	0.55	404397.65	729613.57	
13465.00	90.35	1.18	10453.36	3174.91	-33.18	3174.81	1.03	404492.62	729615.83	
13560.00	90.35	1.44	10452.78	3269.88	-31.01	3269.79	0.27	404587.59	729618.00	
13655.00	90.56	1.12	10452.03	3364.86	-28.89	3364.77	0.40	404682.57	729620.12	
13750.00	90.07	1.94	10451.50	3459.82	-26.35	3459.74	1.01	404777.53	729622.66	
13845.00	91.33	1.59	10450.34	3554.77	-23.42	3554.69	1.38	404872.48	729625.59	
13940.00	90.91	0.07	10448.49	3649.74	-22.05	3649.67	1.66	404967.45	729626.96	
14035.00	91.40	0.21	10446.57	3744.72	-21.82	3744.65	0.54	405062.43	729627.19	
14129.00	91.89	0.54	10443.87	3838.67	-21.20	3838.61	0.63	405156.38	729627.81	
14224.00	91.33	359.34	10441.20	3933.63	-21.30	3933.57	1.39	405251.34	729627.71	
14319.00	92.17	359.71	10438.30	4028.59	-22.09	4028.51	0.97	405346.30	729626.92	
14412.00	90.98	0.88	10435.75	4121.55	-21.61	4121.48	1.79	405439.26	729627.40	
14507.00	90.21	1.20	10434.76	4216.52	-19.89	4216.46	0.88	405534.23	729629.12	

SD Survey Report

Survey Points: (Relative to Slot centre)(TVD relative to Drill Floor)									
Time (sec)	Drill Rate (m/min)	Angle (deg)	Slot Depth (m)	Bit Depth (m)	Bit Rate (m/min)	Drill Rate (m/min)	Angle (deg)	Slot Depth (m)	Bit Depth (m)
14601.00	88.95	1.71	10435.45	4310.49	-17.50	4310.43	1.45	405628.20	729631.51
14695.00	88.46	1.18	10437.57	4404.44	-15.13	4404.38	0.77	405722.15	729633.88
14789.00	88.32	359.89	10440.21	4498.39	-14.25	4498.34	1.38	405816.10	729634.76
14884.00	88.39	359.11	10442.94	4593.35	-15.08	4593.29	0.82	405911.06	729633.93
14979.00	88.74	359.07	10445.32	4688.31	-16.59	4688.25	0.37	406006.02	729632.42
15074.00	88.88	359.64	10447.29	4783.28	-17.66	4783.22	0.62	406100.99	729631.35
15169.00	89.79	359.19	10448.40	4878.27	-18.63	4878.20	1.07	406195.98	729630.38
15263.00	89.16	357.82	10449.26	4972.23	-21.08	4972.16	1.60	406289.94	729627.93
15359.00	88.60	358.12	10451.13	5068.15	-24.48	5068.07	0.66	406385.86	729624.53
15456.00	88.04	358.90	10453.98	5165.07	-27.00	5164.99	0.99	406482.78	729622.01
15551.00	89.37	358.89	10456.12	5260.03	-28.83	5259.94	1.40	406577.74	729620.18
15646.00	90.42	359.42	10456.30	5355.02	-30.23	5354.92	1.24	406672.73	729618.78
15741.00	91.61	0.63	10454.62	5450.00	-30.19	5449.90	1.79	406767.71	729618.82
15835.00	91.33	0.23	10452.20	5543.97	-29.49	5543.87	0.52	406861.68	729619.52
15930.00	89.93	0.27	10451.16	5638.96	-29.07	5638.86	1.47	406956.67	729619.94
16025.00	90.28	1.41	10450.99	5733.94	-27.68	5733.85	1.26	407051.65	729621.33
16119.00	90.21	1.75	10450.58	5827.91	-25.09	5827.82	0.37	407145.62	729623.92
16214.00	89.86	1.55	10450.53	5922.87	-22.35	5922.79	0.42	407240.58	729626.66
16309.00	90.42	1.62	10450.29	6017.83	-19.73	6017.76	0.59	407335.54	729629.28
16403.00	90.00	0.43	10449.95	6111.81	-18.04	6111.75	1.34	407429.52	729630.97
16499.00	90.77	359.56	10449.30	6207.81	-18.05	6207.74	1.21	407525.52	729630.96
16594.00	91.26	0.55	10447.62	6302.79	-17.96	6302.72	1.16	407620.50	729631.05
16688.00	90.84	0.98	10445.90	6396.77	-16.71	6396.70	0.64	407714.48	729632.30
16783.00	90.28	1.27	10444.97	6491.75	-14.84	6491.68	0.66	407809.46	729634.17
16878.00	88.88	1.18	10445.67	6586.72	-12.81	6586.66	1.48	407904.43	729636.20
16973.00	87.83	0.92	10448.39	6681.66	-11.07	6681.61	1.14	407999.37	729637.94
17068.00	87.62	1.01	10452.16	6776.57	-9.47	6776.53	0.24	408094.28	729639.54
17162.00	87.34	0.26	10456.30	6870.48	-8.43	6870.43	0.85	408188.19	729640.58
17256.00	87.34	359.37	10460.66	6964.37	-8.73	6964.33	0.95	408282.08	729640.28
17351.00	87.34	358.84	10465.07	7059.26	-10.22	7059.21	0.56	408376.97	729638.79
17446.00	87.90	358.80	10469.01	7154.16	-12.17	7154.10	0.59	408471.87	729636.84
17540.00	88.11	358.52	10472.29	7248.07	-14.37	7248.01	0.37	408565.78	729634.64
17635.00	89.30	358.30	10474.43	7343.01	-17.00	7342.94	1.27	408660.72	729632.01
17680.32	89.20	358.38	10475.03	7388.31	-18.32	7388.24	0.28	408706.02	729630.69
17697.00	89.16	358.41	10475.27	7404.98	-18.78	7404.91	0.30	408722.69	729630.23
17770.00	89.16	358.41	10476.34	7477.94	-20.81	7477.86	0.00	408795.65	729628.20

Run 4

Cross Prod
Box

Last Svy

Proj to Bit