

DISTRICT I
1625 N. French Dr., Hobbs, N.M. 88240

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised October 12, 2005

DISTRICT II
1301 W. Grand Avenue, Artesia, N.M. 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, N.M. 87410

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

RCVD AUG 15 '12
OIL CONS. DIV.
DIST. 3

API Number 30-045-35159	Pool Code 71629	Pool Name BASIN FRUITLAND COAL
Property Code 6779	Property Name ABRAMS	Well Number 100 S
OGRID No. 14538	Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP	Elevation 5704'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
1	5	30N	11W		1816'	SOUTH	1232'	EAST	SAN JUAN

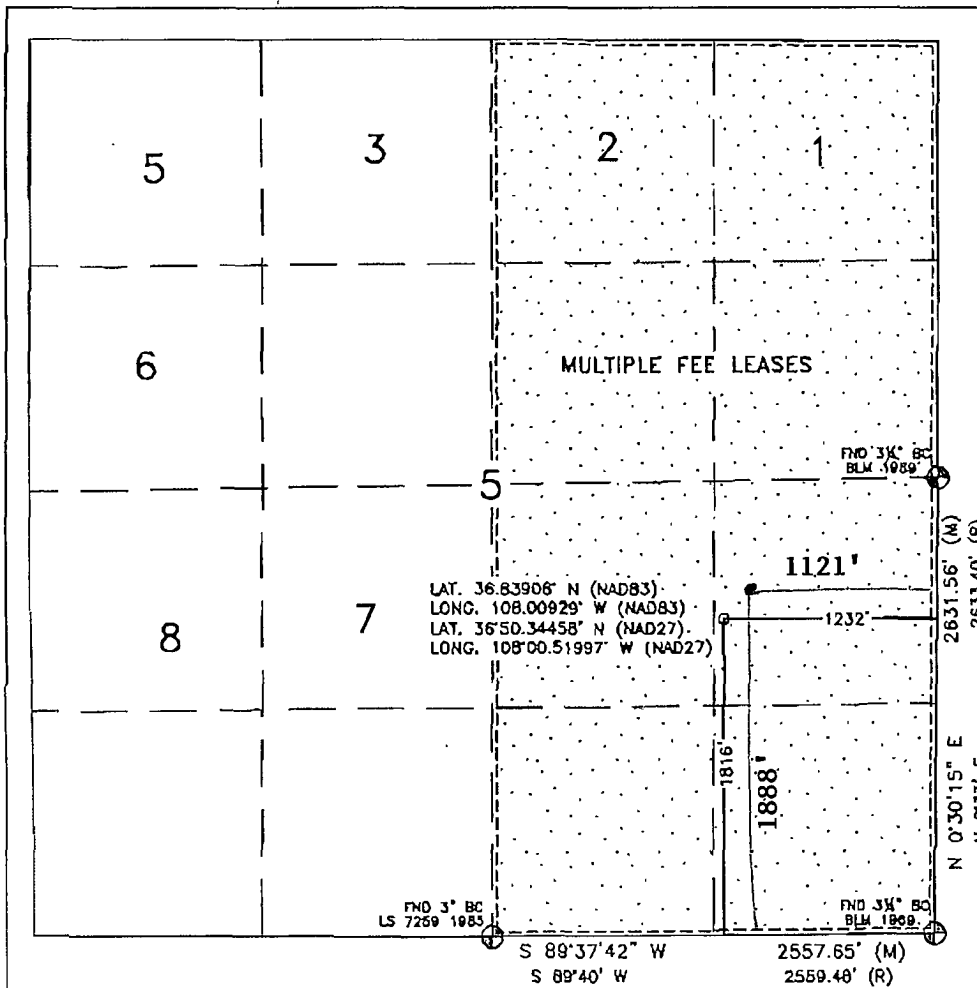
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
1	5	30N	11W		1888'	SOUTH	1121'	EAST	San Juan

Dedicated Acres 319.71 Acres - (E/2)	Joint or Infill	Consolidation Code	Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

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¹⁷ OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization/individual owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner or a compulsory pooling order heretofore entered by the division.

Signature _____ Date 8/14/12
Marie E. Jaramillo

Printed Name

¹⁸ SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

MARCH 3, 2009

Date of Survey

Signature and Seal of Professional Surveyor



DAVID RUSSELL

Certificate Number 10201

A

TH

Operator BURLINGTON RESOURCES OIL & GAS COMPANY LP	Legal WellName ABRAMS #100S	API / UWI 3004535159	County SAN JUAN	State/Province NEW MEXICO
Surface Legal Location 005-030N-011W-I	N/S Dist (ft) 1,816 00	N/S Ref FSL	E/W Dist (ft) 1,232.00	E/W Ref FEL

Date	MD (ftKB)	Incl (°)	Azm (°)	Method	Survey Company
9/7/2011	132.00	0.50		Inc-Drop	MO-TE DRILLING INC.
9/7/2011	226.00	1.00		Inc-Drop	MO-TE DRILLING INC.
11/12/2011	274.00	0.08	349.27	IncAzi-MWD	Scientific Drilling
11/12/2011	305.00	0.43	0.62	IncAzi-MWD	Scientific Drilling
11/12/2011	336.00	0.81	5.87	IncAzi-MWD	Scientific Drilling
11/12/2011	367.00	1.48	8.40	IncAzi-MWD	Scientific Drilling
11/12/2011	398.00	2.34	9.30	IncAzi-MWD	Scientific Drilling
11/12/2011	428.00	3.03	12.02	IncAzi-MWD	Scientific Drilling
11/12/2011	459.00	4.02	16.80	IncAzi-MWD	Scientific Drilling
11/12/2011	520.00	5.56	22.14	IncAzi-MWD	Scientific Drilling
11/12/2011	581.00	7.15	24.40	IncAzi-MWD	Scientific Drilling
11/12/2011	642.00	8.70	28.22	IncAzi-MWD	Scientific Drilling
11/12/2011	709.00	10.14	35.09	IncAzi-MWD	Scientific Drilling
11/13/2011	773.00	11.31	33.91	IncAzi-MWD	Scientific Drilling
11/13/2011	838.00	11.47	38.80	IncAzi-MWD	Scientific Drilling
11/13/2011	902.00	11.94	45.65	IncAzi-MWD	Scientific Drilling
11/13/2011	967.00	12.16	49.50	IncAzi-MWD	Scientific Drilling
11/14/2011	1,031.00	10.97	62.80	IncAzi-MWD	Scientific Drilling
11/14/2011	1,096.00	10.00	70.11	IncAzi-MWD	Scientific Drilling
11/14/2011	1,160.00	8.77	75.54	IncAzi-MWD	Scientific Drilling
11/14/2011	1,225.00	7.78	76.48	IncAzi-MWD	Scientific Drilling
11/14/2011	1,290.00	5.94	80.70	IncAzi-MWD	Scientific Drilling
11/14/2011	1,354.00	3.98	94.05	IncAzi-MWD	Scientific Drilling
11/14/2011	1,418.00	2.59	119.36	IncAzi-MWD	Scientific Drilling
11/14/2011	1,480.00	1.63	151.09	IncAzi-MWD	Scientific Drilling
11/15/2011	1,545.00	1.46	158.75	IncAzi-MWD	Scientific Drilling
11/15/2011	1,609.00	1.44	146.39	IncAzi-MWD	Scientific Drilling
11/15/2011	1,674.00	1.29	137.05	IncAzi-MWD	Scientific Drilling
11/15/2011	1,738.00	1.29	137.26	IncAzi-MWD	Scientific Drilling
11/15/2011	1,803.00	1.38	149.91	IncAzi-MWD	Scientific Drilling
11/15/2011	1,867.00	1.45	144.45	IncAzi-MWD	Scientific Drilling
11/15/2011	1,931.00	1.21	150.21	IncAzi-MWD	Scientific Drilling
11/15/2011	1,996.00	1.01	169.51	IncAzi-MWD	Scientific Drilling
11/15/2011	2,060.00	1.10	175.60	IncAzi-MWD	Scientific Drilling
11/15/2011	2,125.00	1.09	196.00	IncAzi-MWD	Scientific Drilling

I, the undersigned, certify that I acting in my capacity as _____ for ConocoPhillips Company, am authorized by said Company to make this report, and that said report was prepared under my supervision and directions, and that the facts stated herein are true to the best of my knowledge and belief.

Subscribed and sworn to me this _____

Notary Public in and for San Juan County, New Mexico

My Commission expires _____

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	Method	Survey Company
11/15/2011	2,189.00	1.05	198.46	IncAzi-MWD	Scientific Drilling
11/15/2011	2,253.00	1.11	204.20	IncAzi-MWD	Scientific Drilling
11/15/2011	2,337.00	0.84	206.49	IncAzi-MWD	Scientific Drilling

I, the undersigned, certify that I acting in my capacity as Drilling Engineer for ConocoPhillips Company, am authorized by said Company to make this report; and that said report was prepared under my supervision and directions, and that the facts stated herein are true to the best of my knowledge and belief.

[Signature]

Subscribed and sworn to me this 8/14/12

[Signature]

Notary Public in and for San Juan County, New Mexico

My Commission expires 7/22/14



Scientific Drilling

RCVD AUG 15 '12

OIL CONS. DIV.

DIST. 3

ConocoPhillips

SJB (NM West)

SEC 05-T30N-R11W

Abrams #100 S

Original Hole

Design: Original Hole

Standard Survey Report

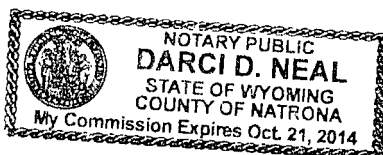
30 November, 2011

This survey is correct to the best of my knowledge and is supported by actual field data.

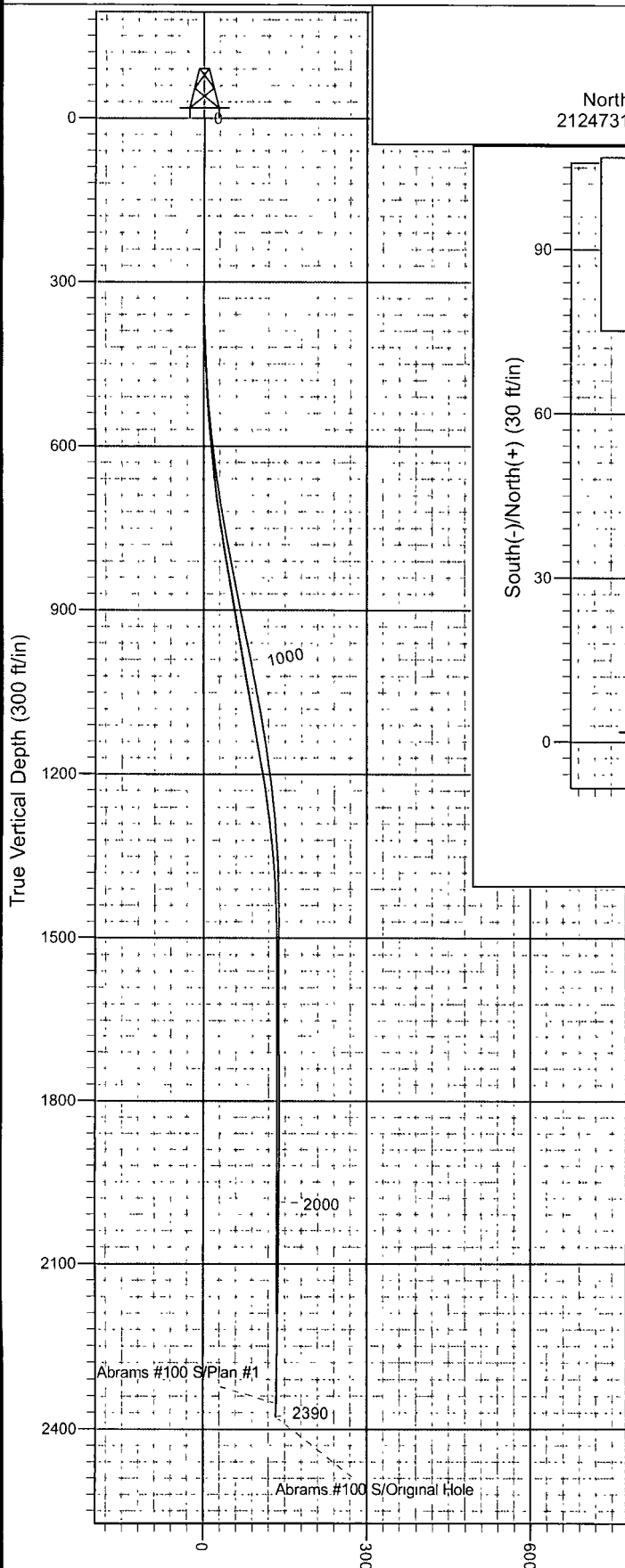
Notarized this date 30th of November, 2011.

Darci D. Neal

Notary Signature
County of Natrona
State of Wyoming



ConocoPhillips



Vertical Section at 57.01° (300 ft/in)

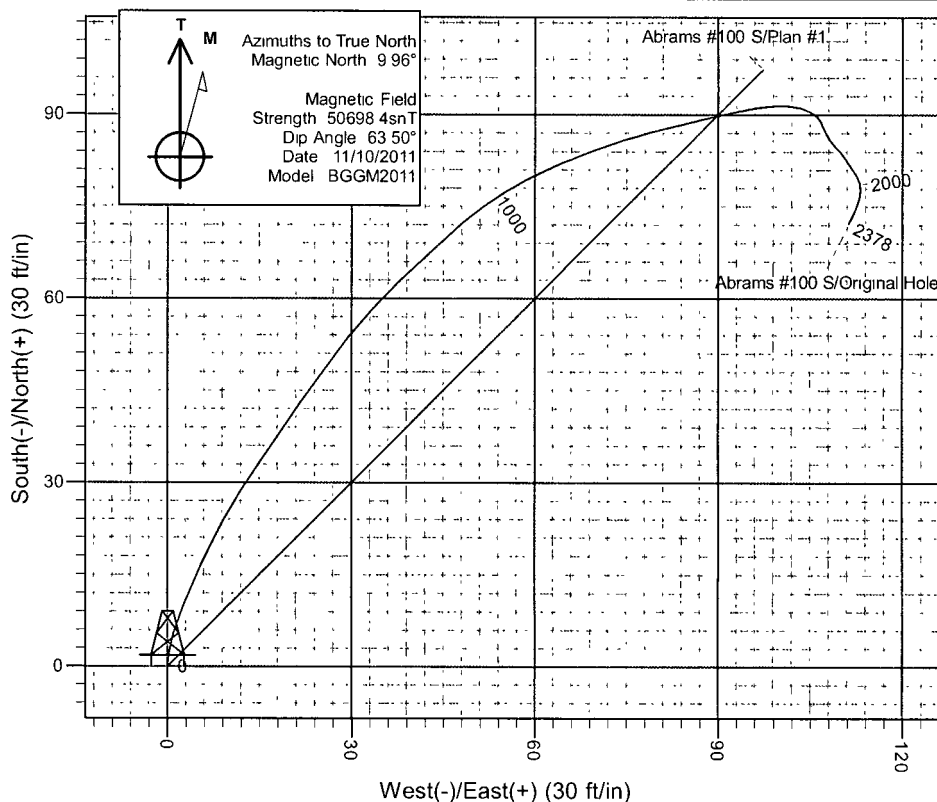
WELL DETAILS: Abrams #100 S
AWS 920 @ 5717.0ft (15' DFE + 5690' GL)
Ground Level. 5702.0

Northing
2124731.63

Easting
448692.43

Latitude
36° 50' 20.675 N

Longitude
108° 0' 31.198 W



REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well Abrams #100 S, True North
Vertical (TVD) Reference: AWS 920 @ 5717.0ft (15' DFE + 5690' GL)
Section (VS) Reference: Slot - (0.0N, 0.0E)
Measured Depth Reference: AWS 920 @ 5717.0ft (15' DFE + 5690' GL)
Calculation Method: Minimum Curvature

PROJECT DETAILS: SJB (NM West)

Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico West 3003
System Datum: Mean Sea Level

Company:	ConocoPhillips	Local Co-ordinate Reference:	Well Abrams #100 S
Project:	SJB (NM West)	TVD Reference:	AWS 920 @ 5717.0ft (15' DFE + 5690' GL)
Site:	SEC 05-T30N-R11W	MD Reference:	AWS 920 @ 5717.0ft (15' DFE + 5690' GL)
Well:	Abrams #100 S	North Reference:	True
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	EDMCOP

Project	SJB (NM West), New Mexico, S-Type MV/DK Wells		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		Using Well Reference Point
Map Zone:	New Mexico West 3003		Using geodetic scale factor

Site	SEC 05-T30N-R11W		
Site Position:		Northing:	2,127,406.86 ft
From:	Lat/Long	Easting:	449,027.98 ft
Position Uncertainty:	15.0 ft	Slot Radius:	6-1/8"
		Latitude:	36° 50' 47.135 N
		Longitude:	108° 0' 27.130 W
		Grid Convergence:	-0.10 °

Well	Abrams #100 S, FC Nudge		
Well Position	+N/-S	0.0 ft	Northing: 2,124,731.63 ft
	+E/-W	0.0 ft	Easting: 448,692.43 ft
Position Uncertainty	3.5 ft	Wellhead Elevation:	ft
		Latitude:	36° 50' 20.675 N
		Longitude:	108° 0' 31.198 W
		Ground Level:	5,702.0 ft

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2011	11/10/2011	9 96	63 50	50,698

Design	Original Hole			
Audit Notes:				
Version:	1.0	Phase:	ACTUAL	Tie On Depth: 0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	57.01

Survey Program	Date	11/30/2011		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
274.0	2,390.0	Survey #1 (Original Hole)	MWD SDI	MWD - Standard ver 1.0.1

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
274.0	0.08	349.27	274.0	0.2	0.0	0.1	0.03	0.03	0.00
First SDI MWD Survey									
305.0	0.43	0.62	305.0	0.3	0.0	0.1	1.14	1.13	36.61
336.0	0.81	5.87	336.0	0.7	0.0	0.3	1.24	1.23	16.94
367.0	1.48	8.40	367.0	1.3	0.1	0.7	2.17	2.16	8.16
398.0	2.34	9.30	398.0	2.3	0.2	1.4	2.78	2.77	2.90
428.0	3.03	12.02	427.9	3.7	0.5	2.4	2.34	2.30	9.07
459.0	4.02	16.80	458.9	5.5	1.0	3.8	3.33	3.19	15.42
520.0	5.56	22.14	519.7	10.3	2.7	7.9	2.63	2.52	8.75
581.0	7.15	24.40	580.3	16.5	5.4	13.5	2.64	2.61	3.70
642.0	8.70	28.22	640.7	24.0	9.1	20.7	2.68	2.54	6.26
709.0	10.14	35.09	706.8	33.3	14.9	30.7	2.72	2.15	10.25

Company:	ConocoPhillips	Local Co-ordinate Reference:	Well Abrams #100 S
Project:	SJB (NM West)	TVD Reference:	AWS 920 @ 5717.0ft (15' DFE + 5690' GL)
Site:	SEC 05-T30N-R11W	MD Reference:	AWS 920 @ 5717.0ft (15' DFE + 5690' GL)
Well:	Abrams #100 S	North Reference:	True
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	EDMCOP

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
773.0	11.31	33.91	769.7	43.1	21.7	41.7	1.86	1.83	-1.84
838.0	11.47	38.80	833.4	53.5	29.3	53.7	1.51	0.25	7.52
902.0	11.94	45.65	896.1	63.0	38.0	66.2	2.29	0.73	10.70
967.0	12.16	49.50	959.6	72.2	48.0	79.6	1.28	0.34	5.92
1,031.0	10.97	62.80	1,022.4	79.4	58.6	92.3	4.55	-1.86	20.78
1,096.0	10.00	70.11	1,086.3	84.1	69.4	104.0	2.53	-1.49	11.25
1,160.0	8.77	75.54	1,149.4	87.2	79.3	114.0	2.37	-1.92	8.48
1,225.0	7.78	76.48	1,213.7	89.5	88.4	122.9	1.54	-1.52	1.45
1,290.0	5.94	80.70	1,278.3	91.0	96.0	130.1	2.93	-2.83	6.49
1,354.0	3.98	94.05	1,342.0	91.4	101.5	134.9	3.53	-3.06	20.86
1,418.0	2.59	119.36	1,405.9	90.6	104.9	137.3	3.09	-2.17	39.55
1,480.0	1.63	151.09	1,467.9	89.1	106.6	137.9	2.38	-1.55	51.18
1,545.0	1.46	158.75	1,532.9	87.5	107.3	137.7	0.41	-0.26	11.78
1,609.0	1.44	146.39	1,596.8	86.1	108.1	137.5	0.49	-0.03	-19.31
1,674.0	1.29	137.05	1,661.8	84.9	109.0	137.7	0.41	-0.23	-14.37
1,738.0	1.29	137.26	1,725.8	83.8	110.0	137.9	0.01	0.00	0.33
1,803.0	1.38	149.91	1,790.8	82.6	110.9	138.0	0.47	0.14	19.46
1,867.0	1.45	144.45	1,854.8	81.3	111.8	138.0	0.24	0.11	-8.53
1,931.0	1.21	150.21	1,918.8	80.0	112.6	138.0	0.43	-0.38	9.00
1,996.0	1.01	169.51	1,983.7	78.9	113.0	137.7	0.65	-0.31	29.69
2,060.0	1.10	175.60	2,047.7	77.7	113.2	137.2	0.22	0.14	9.52
2,125.0	1.09	196.00	2,112.7	76.5	113.0	136.5	0.60	-0.02	31.38
2,189.0	1.05	198.46	2,176.7	75.3	112.7	135.5	0.10	-0.06	3.84
2,253.0	1.11	204.20	2,240.7	74.2	112.2	134.6	0.19	0.09	8.97
2,337.0	0.84	206.49	2,324.7	72.9	111.6	133.3	0.32	-0.32	2.73
Last SDI MWD Survey									
2,390.0	0.84	206.49	2,377.7	72.2	111.3	132.7	0.00	0.00	0.00
Projection to TD									

Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
274.0	274.0	0.2	0.0	First SDI MWD Survey
2,337.0	2,324.7	72.9	111.6	Last SDI MWD Survey
2,390.0	2,377.7	72.2	111.3	Projection to TD

Checked By: _____ Approved By: _____ Date: _____