

30-015-43379

Matador Production Company
Eddy County
Dr. K 24-23S-27E RB #206H
Surveys: 139`MD - 447`MD
Survey Date: Thursday, May 12, 2016

National Oilwell Varco

Survey Report

Thursday, August 11, 2016

UWI No. 30-015-43379

Surface Coordinates: 468978.00 N, 555731.00 E (32° 17' 21.1501" N, 104° 09' 10.7445" W)
Grid Coordinate System: NAD27 New Mexico State Planes, Eastern Zone, US Foot

Kelly Bushing Elevation: 3155.50ft above Mean Sea Level
Kelly Bushing Elevation: 28.50ft above Ground Level
Ground Level: 3127.00ft above Mean Sea Level

Survey Ref: svy578

Matador Production Company

Survey Report for Eddy County, Dr. K 24-23S-27E RB #206H, Surveys: 139`MD - 447`MD

REFERENCE DATA

Ellipsoid	Clarke - 1866	Unit System	Feet (Us Survey)
Coord. System	NAD27 New Mexico State Planes, Eastern Zone, US Foot	North Ref.	Grid North
Mag. Model	International Geomagnetic Reference Field 2015	Vertical Ref.	Mean Sea Level
Calc. Date	12 May, 2016		

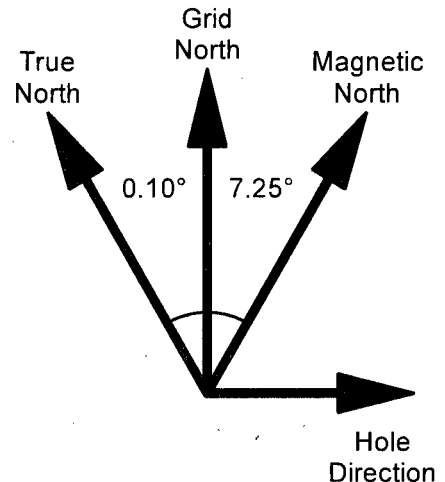
LOCATION DATA

RKB Elevation	3155.50ft above MSL	Total Field	48028.6 nT
Map North	468978.00 N	Magnetic Dip	60.03°
Map East	555731.00 E	Declination	7.35°
Latitude	32° 17' 21.1501" N	Convergence	0.10°
Longitude	104° 09' 10.7445" W		

NORTH REFERENCE DATA

Magnetic Model	International Geomagnetic Reference Field 2015
Calculation Date	Thursday, May 12, 2016
Declination	7.35°
Inclination/Dip	60.03°
Horizontal Component	23984.3 nT
Northerly Component	23787.6 nT
Easterly Component	3066.0 nT
Vertical Component	41611.2 nT
Total Field Strength	48028.6 nT

Grid North is 0.10 degrees East of True North (Grid Convergence)
Magnetic North is 7.35 degrees East of True North (Magnetic Declination)
Magnetic North is 7.25 degrees East of Grid North (Magnetic Convergence)
To convert a True Direction to a Grid Direction, Subtract 0.10 degrees.
To convert a Magnetic Direction to a True Direction, Add 7.35 degrees.
To convert a Magnetic Direction to a Grid Direction, Add 7.25 degrees.



Disclaimer Notice

National Oilwell Varco makes no warranty of any kind with respect to the subject matter included herein or the completeness or accuracy of this document.

National Oilwell Varco are not responsible for any actions (or lack thereof) taken as a result of relying on or in any way using information contained in this document and in no event shall be liable for any damages resulting from reliance on or use of this information.

National Oilwell Varco - Certification Sheet



FloSurvey - Real Time Survey Tool

1200 Cypress Creek Road
Cedar Park, TX 78613
Phone: (512)340-5000
Fax: (512)340-5441

August 11, 2016

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

CLIENT: Matador Production Company
WELL: Dr. K 24-23S-27E RB #206H
FIELD: Forehand Ranch
RIG: Patterson 297
COUNTY: Eddy
API NO: 30-015-43379

We hereby certify that the enclosed field survey data performed on the referenced well by National Oilwell Varco, contained in this report represents to the best of our knowledge, a true and accurate survey of the surveyed section of the well at the time the survey was run.

Other information required by your office is as follows.

<u>Name & Title of Surveyor</u>	<u>Drainhole Number</u>	<u>Surveyed Depths</u>	<u>Dates Performed</u>	<u>Type of Survey</u>
Lee Pendegraft Survey Manager	Dr. K 24-23S-27E RB #206H Original Hole	139.00 Ft to 447.00 Ft	May 12, 2016 to May 13, 2016	FloSurvey

If any other information is required, please contact the undersigned at the above letterhead and phone number.
Sincerely,

Jonathan Leininger
Field Service Manager

CC: Matador Production Company
Enclosures: [2]
County of Eddy
State of New Mexico

Attn: Adam Lange
One Lincoln Centre 5400 LBJ Freeway
Dallas, TX 75240

Attn:



June 9, 2016

Matador Production Company
Attention: Regulatory Department
One Lincoln Centre
5400 LBJ Freeway, Suite 1500
Dallas, Texas 75240

Re: Matador Resources
Dr. K 24-23S-27E RB 206H
Eddy County, New Mexico
API #30-015-43379
Job No. 60070

Dear Regulatory Department;

Phoenix Technology Services, Inc. has filed the Survey Data Certification, Surveys, and Lease Plat for the above referenced Well with the Texas Railroad Commission via certification online. A copy of the filing is attached for your records.

Name of Surveyor	Drain Hole Number	Surveyed Depths		Dates Performed		Type of Survey
		From	To	Start	End	
Brian Pittman	206H	512	14,280	05/14/16	05/31/16	MWD

Thank you for the opportunity to be of service. Please contact me if you have any questions or require additional information.

Best Regards,
Claudia Carreon

Claudia Carreon
Operations Administrator

Phoenix Technology Services
SURVEY DATA CERTIFICATION



PHOENIX JOB NUMBER 60070

ENERGY COMPANY Matador Resources

WELL NAME Dr. K 24-23S-27E RB 206H

COUNTY & STATE Eddy County, New Mexico

API WELL NUMBER 30-015-43379

PROPOSED DIRECTION 89.96°

TIE-IN DATA						
MEASURED	VERTICAL			N-S	E-W	DATA
DEPTH	DEPTH	INCLIN	AZIMUTH	COORD	COORD	SOURCE
447.00 ft	447.00 ft	1.60°	126.00°	3.00 S	3.00 E	NOV Gyro

FIRST	FIRST		
SURVEY	SURVEY		
DATE	DEPTH	INCLIN	AZIMUTH
14-May-16	512.00 ft	2.60°	117.20°

SURVEY INSTRUMENT
TYPE
Phoenix MWD

LAST	LAST		
SURVEY	SURVEY		
DATE	DEPTH	INCLIN	AZIMUTH
31-May-16	14,280.00 ft	91.40°	87.60°

TO THE BEST OF MY KNOWLEDGE I
CERTIFY THIS SURVEY DATA TO BE
TRUE AND CORRECT.

PROJECTED	PROJECTED		
TD SURVEY	TD SURVEY		
DATE	DEPTH	INCLIN	AZIMUTH
31-May-16	14,350.00 ft	91.40°	87.60°

Brian Pittman

PRINT YOUR NAME ABOVE

Brian Pittman

SIGN YOUR NAME ABOVE

MAGNETIC DECLINATION OR TOTAL GRID

TOTAL CORRECTION USED	7.38
DECLINATION OR GRID	GRID

5/31/2016

TODAY'S DATE

MWD SUPERVISOR 1

Shane King

DIRECTIONAL DRILLER 1

Dustin Barnett

MWD SUPERVISOR 2

Brian Pittman

DIRECTIONAL DRILLER 2

Vinn Adams



Matador Resources

Eddy County, NM (NAD27 NME)

Dr. K 24-23S-27E RB

206H

OH / Job 60070

Survey: Phoenix MWD Surveys

Standard Survey Report

01 June, 2016





Phoenix Technology Services

Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well 206H
Project:	Eddy County, NM (NAD27 NME)	TVD Reference:	RKB @ 3154.50usft (Patterson 297)
Site:	Dr. K 24-23S-27E RB	MD Reference:	RKB @ 3154.50usft (Patterson 297)
Well:	206H	North Reference:	Grid
Wellbore:	OH / Job 60070	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Patterson 297)	Database:	Compass 5000 GCR

Project	Eddy County, NM (NAD27 NME)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	Dr. K 24-23S-27E RB		
Site Position:		Northing:	469,008.00 usft
From:	Map	Easting:	555,731.00 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 17' 21.44697 N
		Longitude:	104° 9' 10.74395 W
		Grid Convergence:	0.10 °

Well	206H		
Well Position	+N/-S	0.00 usft	Northing: 468,978.00 usft
	+E/-W	0.00 usft	Easting: 555,731.00 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	0.00 usft
		Latitude:	32° 17' 21.15008 N
		Longitude:	104° 9' 10.74453 W
		Ground Level:	3,127.00 usft

Wellbore	OH / Job 60070				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	5/4/2016	7.48	60.12	48,222

Design	Surveys (Patterson 297)				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00		89.96

Survey Program	Date 6/1/2016				
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
512.00	14,350.00	Phoenix MWD Surveys (OH / Job 60070)	PHX+MWD+HDGM	PHX+OWSG MWD + HDGM	

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
447.00	1.60	126.00	447.00	-3.00	3.00	3.00	0.00	0.00	0.00	
Tie-in to NOV FloSurveys										
512.00	2.60	117.20	511.96	-4.21	5.05	5.04	1.61	1.54	-13.54	
First Phoenix MWD Survey										
694.00	0.80	58.70	693.88	-5.43	9.80	9.80	1.26	-0.99	-32.14	
875.00	0.70	55.50	874.86	-4.15	11.79	11.79	0.06	-0.06	-1.77	
1,062.00	4.70	22.30	1,061.62	3.59	15.64	15.65	2.21	2.14	-17.75	
1,249.00	4.30	17.20	1,248.05	17.37	20.62	20.64	0.30	-0.21	-2.73	
1,436.00	7.70	10.10	1,434.00	36.41	24.90	24.92	1.86	1.82	-3.80	
1,624.00	6.50	28.20	1,620.57	58.19	32.13	32.17	1.34	-0.64	9.63	



Phoenix Technology Services

Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well 206H
Project:	Eddy County, NM (NAD27 NME)	TVD Reference:	RKB @ 3154.50usft (Patterson 297)
Site:	Dr. K 24-23S-27E RB	MD Reference:	RKB @ 3154.50usft (Patterson 297)
Well:	206H	North Reference:	Grid
Wellbore:	OH / Job 60070	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Patterson 297)	Database:	Compass 5000 GCR

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N-S (usft)	+E-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
1,811.00	8.20	355.60	1,806.11	80.83	36.11	36.17	2.37	0.91	-17.43
1,999.00	6.20	9.60	1,992.63	104.21	36.78	36.85	1.41	-1.06	7.45
2,186.00	8.60	8.10	2,178.06	128.01	40.43	40.52	1.29	1.28	-0.80
2,374.00	7.20	4.70	2,364.27	153.67	43.38	43.49	0.78	-0.74	-1.81
2,468.00	7.60	4.20	2,457.49	165.74	44.32	44.43	0.43	0.43	-0.53
2,655.00	9.60	6.70	2,642.38	193.56	47.04	47.18	1.09	1.07	1.34
2,842.00	11.30	3.10	2,826.27	227.34	49.85	50.01	0.97	0.91	-1.93
3,029.00	11.30	1.40	3,009.65	263.95	51.29	51.48	0.18	0.00	-0.91
3,216.00	14.00	6.70	3,192.10	304.74	54.38	54.59	1.57	1.44	2.83
3,404.00	14.80	7.80	3,374.19	351.12	60.29	60.54	0.45	0.43	0.59
3,591.00	15.50	9.00	3,554.69	399.46	67.44	67.72	0.41	0.37	0.64
3,778.00	14.80	0.80	3,735.21	448.03	71.68	72.00	1.20	-0.37	-4.39
3,966.00	15.90	357.90	3,916.50	497.78	71.08	71.42	0.71	0.59	-1.54
4,153.00	15.90	359.00	4,096.35	548.99	69.69	70.07	0.16	0.00	0.59
4,340.00	14.00	359.60	4,277.01	597.22	69.09	69.50	1.02	-1.02	0.32
4,527.00	13.40	359.50	4,458.69	641.51	68.74	69.19	0.32	-0.32	-0.05
4,715.00	13.60	5.40	4,641.51	685.30	70.63	71.11	0.74	0.11	3.14
4,901.00	17.50	3.30	4,820.66	735.01	74.30	74.81	2.12	2.10	-1.13
5,088.00	14.10	5.50	5,000.57	785.77	78.10	78.65	1.85	-1.82	1.18
5,276.00	17.20	14.30	5,181.61	835.52	87.16	87.75	2.07	1.65	4.68
5,463.00	16.40	11.70	5,360.63	888.16	99.35	99.97	0.59	-0.43	-1.39
5,650.00	12.30	9.10	5,541.76	933.70	107.85	108.51	2.22	-2.19	-1.39
5,837.00	12.00	2.50	5,724.58	972.79	111.85	112.53	0.76	-0.16	-3.53
6,025.00	11.10	0.90	5,908.77	1,010.41	112.99	113.70	0.51	-0.48	-0.85
6,212.00	6.20	334.20	6,093.65	1,037.53	108.87	109.60	3.32	-2.62	-14.28
6,399.00	6.80	330.10	6,279.45	1,056.21	98.96	99.70	0.41	0.32	-2.19
6,587.00	6.80	358.70	6,466.18	1,077.00	93.16	93.91	1.78	0.00	15.21
6,774.00	5.70	2.70	6,652.07	1,097.34	93.34	94.11	0.63	-0.59	2.14
6,961.00	3.70	11.80	6,838.43	1,112.53	95.02	95.79	1.14	-1.07	4.87
7,149.00	1.80	348.20	7,026.21	1,121.35	95.65	96.43	1.16	-1.01	-12.55
7,336.00	0.70	357.60	7,213.17	1,125.37	95.00	95.79	0.60	-0.59	5.03
7,523.00	0.40	280.40	7,400.16	1,126.63	94.31	95.10	0.39	-0.16	-41.28
7,711.00	0.60	252.30	7,588.15	1,126.45	92.73	93.52	0.17	0.11	-14.95
7,898.00	0.70	274.20	7,775.14	1,126.23	90.66	91.44	0.14	0.05	11.71
8,085.00	0.80	292.80	7,962.13	1,126.82	88.32	89.10	0.14	0.05	9.95
8,272.00	0.80	258.30	8,149.11	1,127.07	85.83	86.62	0.25	0.00	-18.45
8,459.00	1.10	206.00	8,336.09	1,125.19	83.77	84.55	0.47	0.16	-27.97
8,640.00	1.50	195.40	8,517.04	1,121.34	82.38	83.16	0.26	0.22	-5.86
8,671.00	1.70	200.70	8,548.03	1,120.52	82.11	82.89	0.80	0.65	17.10
8,765.00	0.60	126.60	8,642.01	1,118.92	82.01	82.79	1.75	-1.17	-78.83
8,812.00	2.30	98.80	8,688.99	1,118.63	83.14	83.92	3.81	3.62	-59.15
8,859.00	6.40	98.20	8,735.85	1,118.11	86.67	87.45	8.72	8.72	-1.28
8,905.00	10.00	93.50	8,781.37	1,117.50	93.19	93.97	7.95	7.83	-10.22



Phoenix Technology Services

Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well 206H
Project:	Eddy County, NM (NAD27 NME)	TVD Reference:	RKB @ 3154.50usft (Patterson 297)
Site:	Dr. K 24-23S-27E RB	MD Reference:	RKB @ 3154.50usft (Patterson 297)
Well:	206H	North Reference:	Grid
Wellbore:	OH / Job 60070	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Patterson 297)	Database:	Compass 5000 GCR

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,952.00	13.50	89.20	8,827.38	1,117.33	102.75	103.53	7.67	7.45	-9.15
8,999.00	17.10	92.20	8,872.71	1,117.14	115.15	115.93	7.84	7.66	6.38
9,046.00	21.10	93.07	8,917.11	1,116.42	130.51	131.29	8.53	8.51	1.85
9,093.00	25.70	91.20	8,960.23	1,115.76	149.15	149.93	9.91	9.79	-3.98
9,140.00	30.20	90.80	9,001.74	1,115.38	171.17	171.95	9.58	9.57	-0.85
9,186.00	34.60	90.40	9,040.57	1,115.13	195.81	196.59	9.58	9.57	-0.87
9,233.00	37.90	91.70	9,078.47	1,114.60	223.60	224.37	7.21	7.02	2.77
9,280.00	41.40	93.60	9,114.65	1,113.20	253.55	254.32	7.88	7.45	4.04
9,327.00	45.60	92.90	9,148.74	1,111.37	285.84	286.62	8.99	8.94	-1.49
9,374.00	50.00	90.30	9,180.30	1,110.43	320.63	321.41	10.22	9.36	-5.53
9,421.00	54.40	88.10	9,209.11	1,110.97	357.75	358.53	10.06	9.36	-4.68
9,468.00	58.70	88.70	9,235.01	1,112.06	396.94	397.72	9.21	9.15	1.28
9,515.00	62.60	88.90	9,258.04	1,112.91	437.89	438.67	8.31	8.30	0.43
9,545.00	66.00	89.80	9,271.05	1,113.22	464.92	465.69	11.65	11.33	3.00
9,577.00	70.30	89.60	9,282.95	1,113.37	494.61	495.39	13.45	13.44	-0.63
9,608.00	75.40	89.10	9,292.09	1,113.71	524.22	525.00	16.52	16.45	-1.61
9,728.00	92.90	88.70	9,304.28	1,116.00	643.11	643.89	14.59	14.58	-0.33
9,747.00	92.39	88.48	9,303.40	1,116.47	662.08	662.86	2.91	-2.66	-1.17
FPP Crossing: 9747' MD									
9,822.00	90.40	87.60	9,301.57	1,119.04	737.01	737.79	2.91	-2.66	-1.17
9,916.00	90.20	87.40	9,301.08	1,123.14	830.92	831.71	0.30	-0.21	-0.21
10,010.00	87.10	86.40	9,303.29	1,128.22	924.75	925.53	3.47	-3.30	-1.06
10,104.00	89.60	86.40	9,306.00	1,134.12	1,018.51	1,019.31	2.66	2.66	0.00
10,199.00	91.00	89.00	9,305.50	1,137.93	1,113.43	1,114.22	3.11	1.47	2.74
10,293.00	91.00	88.60	9,303.86	1,139.90	1,207.39	1,208.19	0.43	0.00	-0.43
10,388.00	90.20	88.40	9,302.87	1,142.38	1,302.35	1,303.15	0.87	-0.84	-0.21
10,481.00	90.00	88.50	9,302.70	1,144.90	1,395.32	1,396.12	0.24	-0.22	0.11
10,575.00	89.40	88.60	9,303.19	1,147.28	1,489.29	1,490.09	0.65	-0.64	0.11
10,669.00	88.20	89.90	9,305.16	1,148.51	1,583.25	1,584.06	1.88	-1.28	1.38
10,763.00	88.20	92.20	9,308.12	1,146.79	1,677.19	1,677.99	2.45	0.00	2.45
10,858.00	86.10	90.30	9,312.84	1,144.71	1,772.04	1,772.83	2.98	-2.21	-2.00
10,952.00	85.60	90.20	9,319.64	1,144.31	1,865.79	1,866.59	0.54	-0.53	-0.11
11,047.00	84.30	89.70	9,328.01	1,144.39	1,960.42	1,961.22	1.47	-1.37	-0.53
11,140.00	85.90	88.00	9,335.95	1,146.25	2,053.05	2,053.85	2.51	1.72	-1.83
11,235.00	88.60	85.40	9,340.51	1,151.71	2,147.77	2,148.57	3.94	2.84	-2.74
11,329.00	89.50	85.50	9,342.07	1,159.17	2,241.46	2,242.27	0.96	0.96	0.11
11,423.00	91.30	87.60	9,341.41	1,164.82	2,335.28	2,336.09	2.94	1.91	2.23
11,518.00	92.20	88.80	9,338.51	1,167.81	2,430.18	2,431.00	1.58	0.95	1.26
11,612.00	86.90	88.90	9,339.25	1,169.69	2,524.13	2,524.94	5.64	-5.64	0.11
11,706.00	86.40	89.60	9,344.74	1,170.92	2,617.96	2,618.77	0.91	-0.53	0.74
11,801.00	88.40	88.90	9,349.05	1,172.16	2,712.85	2,713.66	2.23	2.11	-0.74
11,895.00	89.50	89.50	9,350.77	1,173.48	2,806.82	2,807.64	1.33	1.17	0.64
11,989.00	90.00	90.00	9,351.18	1,173.89	2,900.82	2,901.64	0.75	0.53	0.53
12,084.00	90.00	89.70	9,351.18	1,174.14	2,995.82	2,996.64	0.32	0.00	-0.32



Phoenix Technology Services
Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well 206H
Project:	Eddy County, NM (NAD27 NME)	TVD Reference:	RKB @ 3154.50usft (Patterson 297)
Site:	Dr. K 24-23S-27E RB	MD Reference:	RKB @ 3154.50usft (Patterson 297)
Well:	206H	North Reference:	Grid
Wellbore:	OH / Job 60070	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Patterson 297)	Database:	Compass 5000 GCR

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
12,177.00	90.00	89.70	9,351.18	1,174.62	3,088.82	3,089.63	0.00	0.00	0.00	
12,272.00	85.30	90.00	9,355.08	1,174.87	3,183.71	3,184.53	4.96	-4.95	0.32	
12,366.00	89.10	90.40	9,359.67	1,174.54	3,277.58	3,278.40	4.06	4.04	0.43	
12,460.00	89.80	90.90	9,360.57	1,173.48	3,371.57	3,372.39	0.92	0.74	0.53	
12,554.00	88.60	90.40	9,361.88	1,172.41	3,465.55	3,466.37	1.38	-1.28	-0.53	
12,650.00	86.80	90.40	9,365.73	1,171.74	3,561.47	3,562.28	1.88	-1.88	0.00	
12,744.00	87.60	90.50	9,370.33	1,171.00	3,655.35	3,656.17	0.86	0.85	0.11	
12,839.00	86.20	90.00	9,375.46	1,170.59	3,750.21	3,751.02	1.56	-1.47	-0.53	
12,933.00	86.70	90.30	9,381.28	1,170.34	3,844.03	3,844.84	0.62	0.53	0.32	
13,027.00	86.50	89.20	9,386.86	1,170.75	3,937.86	3,938.68	1.19	-0.21	-1.17	
13,122.00	89.60	90.30	9,390.09	1,171.17	4,032.79	4,033.61	3.46	3.26	1.16	
13,216.00	91.70	91.10	9,389.02	1,170.02	4,126.77	4,127.59	2.39	2.23	0.85	
13,311.00	91.80	91.00	9,386.12	1,168.28	4,221.71	4,222.53	0.15	0.11	-0.11	
13,405.00	88.60	89.40	9,385.80	1,167.95	4,315.69	4,316.51	3.81	-3.40	-1.70	
13,499.00	88.60	89.10	9,388.09	1,169.18	4,409.66	4,410.47	0.32	0.00	-0.32	
13,593.00	89.70	89.60	9,389.49	1,170.25	4,503.64	4,504.46	1.29	1.17	0.53	
13,687.00	88.70	88.60	9,390.80	1,171.72	4,597.62	4,598.43	1.50	-1.06	-1.06	
13,781.00	87.50	87.50	9,393.92	1,174.92	4,691.51	4,692.33	1.73	-1.28	-1.17	
13,875.00	85.30	86.40	9,399.82	1,179.91	4,785.18	4,786.00	2.62	-2.34	-1.17	
13,970.00	87.10	87.50	9,406.11	1,184.95	4,879.83	4,880.66	2.22	1.89	1.16	
14,064.00	89.80	87.20	9,408.66	1,189.30	4,973.69	4,974.52	2.89	2.87	-0.32	
14,158.00	90.90	87.60	9,408.08	1,193.56	5,067.59	5,068.42	1.25	1.17	0.43	
14,253.00	91.80	87.50	9,405.84	1,197.62	5,162.48	5,163.31	0.95	0.95	-0.11	
14,260.00	91.70	87.53	9,405.63	1,197.92	5,169.47	5,170.30	1.53	-1.48	0.37	
LPP Crossing: 14260' MD										
14,280.00	91.40	87.60	9,405.09	1,198.77	5,189.44	5,190.28	1.53	-1.48	0.37	
Final Phoenix MWD Survey										
14,350.00	91.40	87.60	9,403.38	1,201.70	5,259.36	5,260.20	0.00	0.00	0.00	
Projection to TD										

Survey Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
447.00	447.00	-3.00	3.00	Tie-in to NOV FloSurveys	
512.00	511.96	-4.21	5.05	First Phoenix MWD Survey	
9,747.00	9,303.40	1,116.47	662.08	FPP Crossing: 9747' MD	
14,260.00	9,405.63	1,197.92	5,169.47	LPP Crossing: 14260' MD	
14,280.00	9,405.09	1,198.77	5,189.44	Final Phoenix MWD Survey	
14,350.00	9,403.38	1,201.70	5,259.36	Projection to TD	

Checked By: _____ Approved By: _____ Date: _____