

HOBBS OCD

AUG 18 2016

RIG # 204

OPERATOR
WELL/LEASE
COUNTY

MEWBOURNE OIL COMPANY
ANTELOPE 9 B2NC STATE COM 001H
LEA COUNTY

RECEIVED

STATE OF NEW MEXICO
DEVIATION REPORT

350 0.14
753 1.91

STATE OF TEXAS

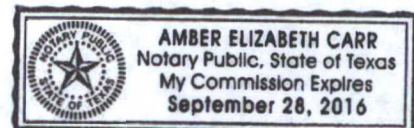
COUNTY OF MIDLAND

BY: *Dora Garcia*

The foregoing instrument was acknowledged before me on
Dora Garcia on behalf of Patterson-UTI Drilling Company LLC.

11/6/15, by

Amber Elizabeth Carr
Notary Public for Midland County, Texas
My Commission Expires:



AUG 18 2016

RECEIVED

Company Name: Mewbourne Oil Company
 Antelope 9 B2NC State Com #1H
 Lea County, New Mexico
 Rig: Patterson #204
 Created By: Shane Robbins
 Date: 9/22/2015

Antelope 9 B2NC State Com #1H
 Lea County, New Mexico
 Q150696 & WT-150599
 Design #3 - Tie In



Azimuths to Grid North

Correction: 6.57°

Magnetic Field

Strength: 48259.7snT

Dip Angle: 60.18°

Date: 8/24/2015

Model: IGRF2010

DESIGN TARGET DETAILS

Name	TVD	+N-S	+E-W	Northing	Easting	Latitude	Longitude
Antelope 9 B2NC State Com #1H PBHL - plan hits target center	10346.0	4765.7	-41.2	483140.90	764531.91	32° 19' 31.309 N	103° 28' 37.077 W

ANNOTATIONS

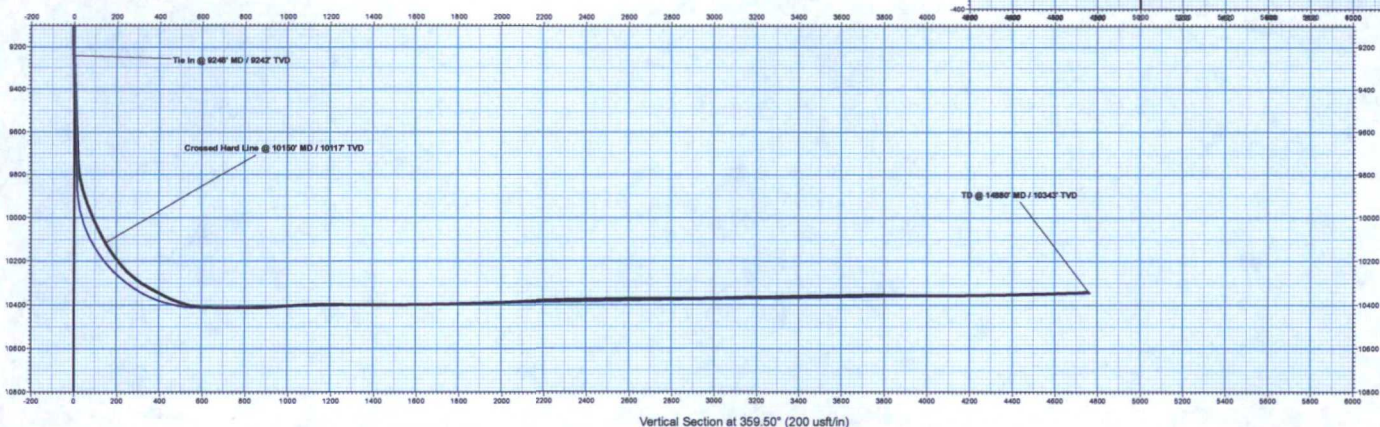
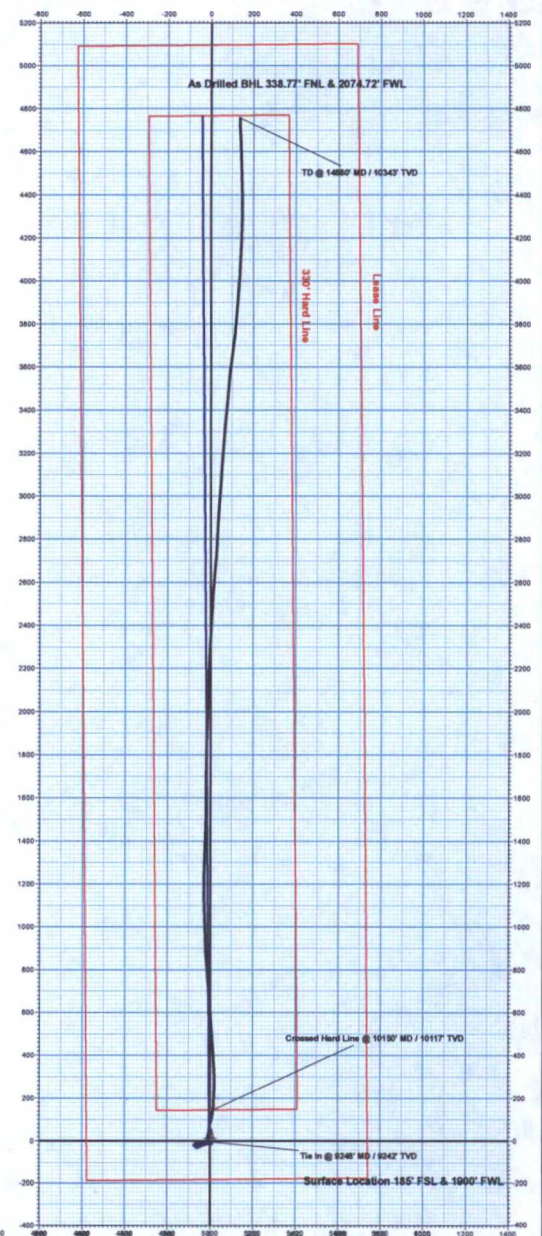
MD	Inc	Azi	TVD	+N-S	+E-W	V/Sect	Departure	Annotation
9248.0	1.72	1.26	9241.5	-2.8	-3.1	-2.8	257.3	Tie In @ 9248' MD / 9242' TVD
10149.7	30.40	6.85	10117.1	145.1	13.8	145.0	407.5	Crossed Hard Line @ 10150' MD / 10117' TVD
14880.0	92.80	357.40	10342.7	4765.5	133.9	4757.1	5029.5	TD @ 14880' MD / 10342' TVD

PROJECT DETAILS: Lea County, New Mexico

Geodetic System: US State Plane 1927 (Exact solution)
 Datum: NAD 1927 (NADCON CONUS)
 Ellipsoid: Clarke 1866
 Zone: New Mexico East 3001
 System Datum: Mean Sea Level

WELL DETAILS: Antelope 9 B2NC State Com #1H

+N-S	+E-W	Ground Level:	3423.8	Latitude	Longitude
0.0	0.0	Northing	478374.90	32° 19' 44.148 N	103° 28' 37.041 W



Vertical Section at 359.50° (200 usft/in)

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Mewbourne Oil Company

Lea County, New Mexico

Sec 9, T23S , R34E

Antelope 9 B2NC State Com #1H

Wellbore #1

Survey: MWD

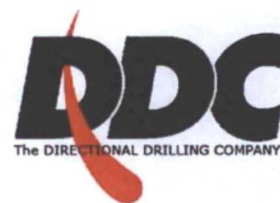
DDC Survey Report

29 September, 2015



The Directional Drilling Company

11390 FM 830
Willis, TX 77318
Phone: (936) 856-4332
Fax: (936) 856-8678



Survey Certification Sheet

Company	Job Number	Date
Mewbourne Oil Company	WT-150599	9/29/2015

Lease	Well Name	County & State
Sec9,T23S,R34E	Antelope 9 B2NC State Com1H	Lea, New Mexico

API No.	Survey Depth Range	Survey Type
30-025-42650	9248 feet to 14880 feet MD	MWD

Sidetrack Information	Directional Supervisor/Surveyor
N/A	Brad Reed

Certification Statement

The data and calculations for this survey have been checked by me and conform to the standards and procedures set forth by The Directional Drilling Company (DDC). This report represents a true and correct directional survey of this well based on the original data obtained at the well site. Wellbore coordinates are calculated using minimum curvature.

Christopher Hughes

Digitally signed by Christopher Hughes
DN: cn=Christopher Hughes, o=DDC, ou,
email=Chrish@directionaldrillers.com, c=US
Date: 2015.09.29 14:40:39 -05'00'

Christopher Hughes
MWD Compliance Manager
The Directional Drilling Company

HP Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Antelope 9 B2NC State Com #1H
Project:	Lea County, New Mexico	TVD Reference:	Well @ 3448.0usft (Patterson #204)
Site:	Sec 9, T23S , R34E	MD Reference:	Well @ 3448.0usft (Patterson #204)
Well:	Antelope 9 B2NC State Com #1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Compass

Project	Lea County, New Mexico		
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	Sec 9, T23S , R34E		
Site Position:		Northing:	478,399.00 usft
From:	Map	Easting:	767,202.40 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 18' 44.178 N
		Longitude:	103° 28' 6.404 W
		Grid Convergence:	0.46 °

Well	Antelope 9 B2NC State Com #1H		
Well Position	+N/-S	0.0 usft	Northing: 478,374.90 usft
	+E/-W	0.0 usft	Easting: 764,573.10 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	0.0 usft
		Latitude:	32° 18' 44.148 N
		Longitude:	103° 28' 37.041 W
		Ground Level:	3,423.0 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	8/24/2015	7.03	60.18	48,260

Design	Wellbore #1			
Audit Notes:				
Version:	1.0	Phase:	ACTUAL	Tie On Depth: 0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	359.50

Survey Program	Date 9/22/2015			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.0	9,248.0	GYRO (Wellbore #1)	Good_gyro	Good Gyro
9,457.0	14,880.0	MWD (Wellbore #1)	MWD default	MWD - Standard

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)
Tie In @ 9248' MD / 9242' TVD									
9,248.0	1.72	1.26	9,241.5	-2.8	-3.1	-2.8	0.00	0.00	0.00
9,457.0	2.50	348.50	9,450.4	4.8	-3.9	4.9	0.43	0.37	-6.11
9,551.0	2.20	348.30	9,544.3	8.6	-4.7	8.6	0.32	-0.32	-0.21
9,646.0	2.50	348.80	9,639.2	12.4	-5.5	12.5	0.32	0.32	0.53
9,740.0	2.50	347.40	9,733.1	16.4	-6.3	16.5	0.06	0.00	-1.49
9,772.0	5.10	353.20	9,765.0	18.5	-6.6	18.6	8.20	8.13	18.13
9,803.0	8.40	359.00	9,795.8	22.2	-6.8	22.2	10.86	10.65	18.71
9,835.0	11.10	3.90	9,827.4	27.6	-6.7	27.6	8.82	8.44	15.31
9,866.0	14.10	7.10	9,857.6	34.3	-6.0	34.3	9.93	9.68	10.32

HP Survey Report



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Site:	Sec 9, T23S , R34E	MD Reference:	Well @ 3448.0usft (Patterson #204)
Well:	Antelope 9 B2NC State Com #1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Compass

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)
9,897.0	17.20	8.50	9,887.5	42.6	-4.8	42.6	10.07	10.00	4.52
9,929.0	20.00	5.90	9,917.8	52.7	-3.6	52.7	9.12	8.75	-8.13
9,960.0	22.90	7.60	9,946.6	64.0	-2.2	64.0	9.57	9.35	5.48
9,992.0	22.30	10.80	9,976.2	76.1	-0.3	76.1	4.28	-1.88	10.00
10,023.0	23.10	13.30	10,004.8	87.8	2.2	87.8	4.04	2.58	8.06
10,055.0	26.10	12.60	10,033.9	100.8	5.2	100.7	9.42	9.38	-2.19
10,091.0	28.70	11.80	10,065.8	117.0	8.7	116.9	7.29	7.22	-2.22
10,122.0	28.80	10.60	10,093.0	131.6	11.6	131.5	1.89	0.32	-3.87
10,153.0	30.60	6.20	10,119.9	146.8	13.8	146.6	9.12	5.81	-14.19
10,185.0	33.60	5.00	10,147.0	163.7	15.5	163.6	9.58	9.38	-3.75
10,216.0	36.40	5.00	10,172.4	181.4	17.0	181.3	9.03	9.03	0.00
10,247.0	39.10	3.00	10,196.9	200.3	18.3	200.2	9.56	8.71	-6.45
10,278.0	41.80	359.70	10,220.5	220.4	18.8	220.3	11.11	8.71	-10.65
10,309.0	45.00	0.60	10,243.1	241.7	18.9	241.6	10.51	10.32	2.90
10,341.0	48.50	0.20	10,265.0	265.0	19.0	264.9	10.98	10.94	-1.25
10,372.0	52.50	359.50	10,284.7	289.0	18.9	288.8	13.02	12.90	-2.26
10,404.0	56.60	357.80	10,303.2	315.0	18.3	314.8	13.52	12.81	-5.31
10,435.0	61.50	356.20	10,319.2	341.5	16.9	341.4	16.41	15.81	-5.16
10,466.0	63.10	355.90	10,333.6	368.9	15.0	368.8	5.23	5.16	-0.97
10,498.0	63.20	357.30	10,348.1	397.4	13.3	397.3	3.92	0.31	4.38
10,529.0	64.30	356.00	10,361.8	425.2	11.7	425.1	5.17	3.55	-4.19
10,561.0	67.80	355.70	10,374.8	454.3	9.6	454.2	10.97	10.94	-0.94
10,592.0	70.20	356.00	10,385.9	483.2	7.5	483.1	7.79	7.74	0.97
10,624.0	73.30	355.90	10,395.9	513.5	5.4	513.4	9.69	9.69	-0.31
10,654.0	77.50	355.50	10,403.4	542.5	3.2	542.4	14.06	14.00	-1.33
10,686.0	81.40	355.30	10,409.3	573.8	0.7	573.8	12.20	12.19	-0.63
10,717.0	87.10	356.20	10,412.4	604.6	-1.6	604.5	18.61	18.39	2.90
10,755.0	89.90	356.50	10,413.4	642.5	-4.0	642.5	7.41	7.37	0.79
10,835.0	89.80	355.30	10,413.6	722.3	-9.8	722.3	1.51	-0.13	-1.50
10,898.0	89.60	354.80	10,413.9	785.0	-15.2	785.1	0.85	-0.32	-0.79
10,993.0	92.50	357.40	10,412.2	879.8	-21.7	879.9	4.10	3.05	2.74
11,087.0	93.40	358.00	10,407.4	973.6	-25.4	973.7	1.15	0.96	0.64
11,182.0	93.90	358.10	10,401.3	1,068.3	-28.7	1,068.5	0.54	0.53	0.11
11,276.0	89.80	359.00	10,398.3	1,162.2	-31.0	1,162.4	4.47	-4.36	0.96
11,371.0	89.20	2.20	10,399.1	1,257.2	-30.0	1,257.4	3.43	-0.63	3.37
11,465.0	89.40	2.00	10,400.3	1,351.1	-26.6	1,351.3	0.30	0.21	-0.21
11,559.0	89.80	2.20	10,400.9	1,445.1	-23.1	1,445.2	0.48	0.43	0.21
11,654.0	90.80	0.40	10,400.4	1,540.0	-21.0	1,540.2	2.17	1.05	-1.89
11,749.0	91.00	0.20	10,398.9	1,635.0	-20.5	1,635.1	0.30	0.21	-0.21
11,843.0	91.40	0.20	10,397.0	1,729.0	-20.2	1,729.1	0.43	0.43	0.00
11,938.0	91.80	1.80	10,394.3	1,823.9	-18.5	1,824.0	1.74	0.42	1.68
12,033.0	91.80	1.10	10,391.3	1,918.9	-16.1	1,918.9	0.74	0.00	-0.74
12,127.0	92.20	2.90	10,388.0	2,012.7	-12.8	2,012.8	1.96	0.43	1.91

HP Survey Report



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Well:	Antelope 9 B2NC State Com #1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Compass

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)
12,222.0	92.60	1.30	10,384.1	2,107.6	-9.4	2,107.6	1.73	0.42	-1.68
12,316.0	92.70	1.80	10,379.7	2,201.5	-6.8	2,201.4	0.54	0.11	0.53
12,411.0	90.50	2.90	10,377.1	2,296.3	-2.9	2,296.3	2.59	-2.32	1.16
12,505.0	90.90	3.60	10,375.9	2,390.2	2.4	2,390.1	0.86	0.43	0.74
12,599.0	91.60	3.00	10,373.9	2,484.0	7.8	2,483.8	0.98	0.74	-0.64
12,694.0	89.90	4.60	10,372.6	2,578.8	14.1	2,578.5	2.46	-1.79	1.68
12,788.0	89.90	4.60	10,372.8	2,672.5	21.7	2,672.2	0.00	0.00	0.00
12,883.0	90.20	3.60	10,372.7	2,767.2	28.4	2,766.9	1.10	0.32	-1.05
12,977.0	90.70	3.40	10,372.0	2,861.0	34.2	2,860.6	0.57	0.53	-0.21
13,072.0	90.90	3.80	10,370.6	2,955.8	40.2	2,955.4	0.47	0.21	0.42
13,167.0	91.10	4.10	10,369.0	3,050.6	46.7	3,050.1	0.38	0.21	0.32
13,261.0	91.40	4.10	10,366.9	3,144.3	53.4	3,143.8	0.32	0.32	0.00
13,356.0	91.10	4.80	10,364.8	3,239.0	60.8	3,238.4	0.80	-0.32	0.74
13,451.0	91.20	4.60	10,362.9	3,333.7	68.6	3,333.0	0.24	0.11	-0.21
13,546.0	91.70	5.20	10,360.5	3,428.3	76.7	3,427.5	0.82	0.53	0.63
13,640.0	90.80	4.60	10,358.5	3,522.0	84.7	3,521.1	1.15	-0.96	-0.64
13,735.0	90.40	7.40	10,357.5	3,616.4	94.6	3,615.5	2.98	-0.42	2.95
13,830.0	90.90	7.60	10,356.4	3,710.6	107.0	3,709.5	0.57	0.53	0.21
13,925.0	89.10	4.60	10,356.4	3,805.0	117.1	3,803.9	3.68	-1.89	-3.16
14,019.0	89.30	5.20	10,357.7	3,898.7	125.2	3,897.5	0.67	0.21	0.64
14,114.0	89.90	4.30	10,358.4	3,993.4	133.0	3,992.0	1.14	0.63	-0.95
14,209.0	90.30	2.20	10,358.2	4,088.2	138.4	4,086.8	2.25	0.42	-2.21
14,303.0	91.00	3.00	10,357.2	4,182.1	142.7	4,180.7	1.13	0.74	0.85
14,398.0	90.20	1.80	10,356.2	4,277.0	146.6	4,275.6	1.52	-0.84	-1.26
14,492.0	91.40	359.50	10,354.9	4,371.0	147.7	4,369.5	2.76	1.28	-2.45
14,587.0	91.20	357.40	10,352.7	4,465.9	145.1	4,464.5	2.22	-0.21	-2.21
14,682.0	91.60	359.00	10,350.4	4,560.8	142.2	4,559.4	1.74	0.42	1.68
14,776.0	92.20	356.70	10,347.3	4,654.7	138.6	4,653.3	2.53	0.64	-2.45
14,830.0	92.60	357.40	10,345.0	4,708.6	135.9	4,707.2	1.49	0.74	1.30
TD @ 14880' MD / 10343' TVD									
14,880.0	92.60	357.40	10,342.7	4,758.5	133.6	4,757.1	0.00	0.00	0.00

Survey Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
9,248.0	9,241.5	-2.8	-3.1	Tie In @ 9248' MD / 9242' TVD
14,880.0	10,342.7	4,758.5	133.6	TD @ 14880' MD / 10343' TVD

Checked By: _____ Approved By: _____ Date: _____



HOBBS CDD

AUG 18 2016

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September 18, 2015

New Mexico Energy, Minerals and Natural Resources Department
Attn: Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505

Attn: Jackie Lathan

Re: Mewbourne Oil Company
Antelope 9 B2NC State Com #001H
Antelope Ridge; Bone Spring, NW
Lea County, New Mexico
API# 30-025-42650

Enclosed please find the original and one (1) copy of the survey performed on the reference well by STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C. Other information required by your office is as follows:

<u>Name & Title</u>	<u>Drainhole No.</u>	<u>Survey Depths</u>	<u>Dates Performed</u>	<u>Type Survey</u>
Chris Alley	Original Hole	Surface to 9,248ft.	09-10-2015	Gyro Survey

A certified plat on which the bottom-hole location is oriented to both surface location and to the lease lines (or unit lines in case of pooling) is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.


Todd Estes

Enclosures

CC:

Mewbourne Oil Company
Attn: Frosty Lathan
P.O. Box 5720
Hobbs, NM 88241

Mewbourne Oil Company
Attn: Robin Terrell
P.O. Box 5720
Hobbs, NM 88241

NMEMaNRD\Mewbourne Oil Company\Antelope 9 B2NC State Com #1HWM153106

STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C.
P.O. Box 1250
Montgomery, TX 77356
Office (936) 582-7296 * Fax (936)-588-4163



September 18, 2015

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Survey Certification Report

STATE OF TEXAS
COUNTY OF Montgomery

I, Todd Estes, certify that I am employed by STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C., and that I did on the day(s) of September 10, 2015, conduct or supervise the taking of a SEDS Gyro Survey from Surface to a depth of 9,248 feet; that I am authorized and qualified to make this report; that this survey was conducted at the request of Mewbourne Oil Company, for the Antelope 9 B2NC State Com #001H well, API # **30-025-42650** in Lea County, New Mexico; and that I have reviewed this report and find that it conforms to the principles as set forth by STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C.


Todd Estes

STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C.

STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C.
P.O. Box 1250
Montgomery, TX 77356
Office (936) 582-7296 * Fax (936)-588-4163