

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD-ARTESIA

FORM APPROVED
OMBNO. 1004-0137
Expires: March 31, 2007

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well ☐ Oil Well ☐ Gas Well ☐ Dry ☒ Other Injection SWD

b. Type of Completion: ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.,
Other SWD-1245-A

2. Name of Operator OXY USA Inc.

3. Address P.O. Box 50250 Midland, TX 79710

3a. Phone No. (include area code) 432-685-5717

4. Location of Well (Report location clearly and in accordance with Federal requirements)*
At surface 680 FNL 458 FNL NWNW (D)
At top prod. interval reported below
At total depth

14. Date Spudded 3/5/11

15. Date T.D. Reached 3/23/11

16. Date Completed 3/30/11
☐ D & A ☒ Ready to Produce

18. Total Depth: MD
TVD 6330'

19. Plug Back T.D.: MD
TVD 6243'

20. Depth Bridge Plug Set: MD
TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
TOLB/CN/HR/6S/HR/LA/MCFL/CBL/KCL/GR

22. Was well cored? ☒ No ☐ Yes (Submit analysis)
Was DST run? ☒ No ☐ Yes (Submit report)
Directional Survey? ☐ No ☒ Yes (Submit copy)

5. Lease Serial No. WNW 104730

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.

8. Lease Name and Well No. Sundance 4 Federal #324

9. AFI Well No. 30-015-38527

10. Field and Pool, or Exploratory SWD Sandhills Delaware, West

11. Sec., T., R., M., on Block and Survey or Area 4-245-31E

12. County or Parish Eddy

13. State NM

17. Elevations (DF, RKB, RT, GL)*

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
14 3/4"	11 3/4"	42	0	509'	-	410	112	Surf Circ	N/A
10 5/8"	8 7/8"	32	0	4295'	-	1400	431	Surface	N/A
7 7/8"	5 1/2"	17	0	6316'	4107'	1200	370	Surf Circ	N/A

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2 7/8"	4564'	4564'						

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) <u>Delaware</u>	<u>4602'</u>	<u>5830'</u>	<u>4602-5830'</u>	<u>.43</u>	<u>444</u>	<u>RECEIVED</u>
B)						<u>NOV 15 2011</u>
C)						
D)						

27. Acid, Fracture, Treatment, Cement Squeeze, etc.

Depth Interval	Amount and Type of Material
<u>4602-5830'</u>	<u>74052g Wt Frac GR21 + 15000g 7 1/2% H₂O₂ HCl + 421983g Delta Frac 200-R21 w/ B12021 #52</u>

RECLAMATION

DUE 3-2-12

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						<u>Active - Injection</u>

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						<u>NOV 4 2011</u>

*(See instructions and spaces for additional data on page 2)

SWD-1245-A

Accepted for record

DEC 02 2011 NMOCD

BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE

Non-Well Prod # 2832016

dm

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	

29. Disposition of Gas (Sold, used for fuel, vented, etc.)

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top Meas. Depth
				Rustler Top Salt Delaware Bell Canyon Cherry Canyon	436' 756' 4213' 4290' 5103'

32. Additional remarks (include plugging procedure):

On Injection @ O# w/ 3600 BWPD

RECEIVED

NOV - 2 PM 2:39

BUREAU OF LAND MGMT
CARLSBAD FIELD OFFICE

33. Indicate which items have been attached by placing a check in the appropriate boxes:

- ☒ Electrical/Mechanical Logs (1 full set req'd.)
 ☐ Geologic Report
 ☐ DST Report
 ☒ Directional Survey
 ☐ Sundry Notice for plugging and cement verification
 ☐ Core Analysis
 ☐ Other:

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)*

Name (please print) David Stewart

Title Regulatory Advisor

Signature

David Stewart

Date

11/1/14

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

30-015-38527

OCCIDENTAL PERMIAN LTD.

SWD

Eddy County, NM

Sundance 4 Federal #32

VH - Job #32K0211172

Survey: Actual

SDI Standard Survey Report

20 March, 2011

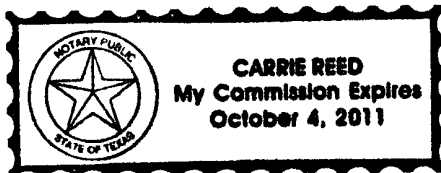
This survey is correct to the best of my knowledge and is supported by actual field data.

Richard

Notarized this date 21st of March, 2011.

Carrie Reed

Notary Signature
County of Midland
State of Texas



Scientific Drilling
Directional Drilling Operations

Scientific Drilling International, Inc.
SDI Standard Survey Report



Company:	OCCIDENTAL PERMIAN LTD	Local Co-ordinate Reference:	Well Sundance 4 Federal #32
Project:	SWD	TVD Reference:	WELL @ 0 0usft (Original Well Elev)
Site:	Eddy County, NM	MD Reference:	WELL @ 0 0usft (Original Well Elev)
Well:	Sundance 4 Federal #32	North Reference:	Grid
Wellbore:	VH - Job #32K0211172	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K0211172	Database:	EDM-Regulatory

Project		SWD	
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		Eddy County, NM			
Site Position:		Northing:	455,721 04 usft	Latitude:	32° 15' 6 202 N
From:	Lat/Long	Easting:	668,182 50 usft	Longitude:	103° 47' 21 523 W
Position Uncertainty:	0 0 usft	Slot Radius:	13-3/16"	Grid Convergence:	0 29 °

Well	Sundance 4 Federal #32, Vertical					
Well Position	+N/-S	0 0 usft	Northing:	455,721 04 usft	Latitude:	32° 15' 6 202 N
	+E/-W	0 0 usft	Easting:	668,182 50 usft	Longitude:	103° 47' 21 523 W
Position Uncertainty		0 0 usft	Wellhead Elevation:	usft	Ground Level:	0 0 usft

Wellbore		VH - Job #32K0211172			
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2010	2/25/2011	7 78	60 19	48,698

Design	VH - Job #32K0211172			
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	269 42

Survey Program		Date	3/1/2011		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
83 0	472 7	Actual (VH - Job #32K0211172)	Keeper	Keeper Surface Readout	

Survey							
Measured Depth (usft)	Inclination (°)	Azimuth (°)	True Vertical Depth	North/South (usft)	East/West (usft)	Closure Azimuth (°)	Closure Distance (usft)
0 0	0 00	0 00	0 0	0 0	0 0	0 00	0 0
83 0	0 39	269 23	83 0	0 0	-0 3	269 23	0 3
142 4	0 43	264 52	142 4	0 0	-0 7	267 75	0 7
234 9	0 38	261 11	234 9	-0 1	-1 4	265 43	1 4
323 7	0 40	271 36	323 7	-0 1	-2 0	265 72	2 0
413 9	0 38	278 03	413 9	-0 1	-2 6	267 83	2 6
472 7	0 41	281 02	472 7	0 0	-3 0	269 42	3 0



Project: SWD
 Eddy County, NM
 Well: Sundance 4 Federal #32
 Wellbore: VH - Job #32K0211172
 Design: VH - Job #32K0211172



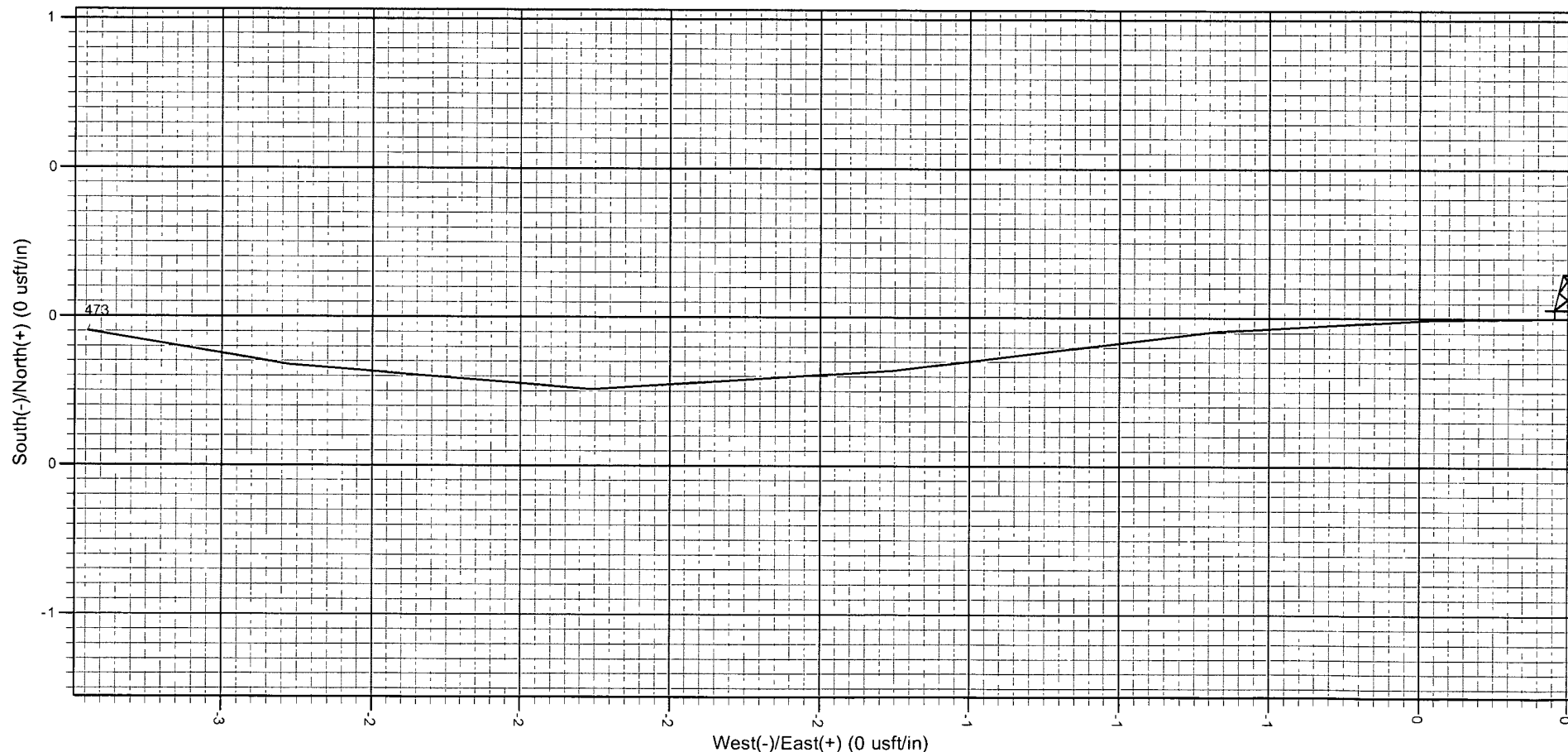
Azimuths to Grid North
 True North -0 29°
 Magnetic North 7 49°
 Magnetic Field
 Strength 48698 1snT
 Dip Angle 60°19'
 Date 2/25/2011
 Model BGGM2010

WELL DETAILS Sundance 4 Federal #32

WELL @ 0.0usft (Original Well Elev)

Ground Level: 0.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	455721.04	668182.50	32° 15' 6.202 N	103° 47' 21.523 W	



PROJECT DETAILS: SWD
 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

SITE DETAILS: Eddy County, NM
 Site Centre Latitude: 32° 15' 6.202 N
 Longitude: 103° 47' 21.523 W
 Positional Uncertainty: 0.0
 Convergence: 0.29
 Local North: Grid



Weatherford®

Evaluation, Drilling & Intervention
10000 West County Rd. 116
P.O. Box 61028
Midland, TX USA 79711
Tel. (432) 561-8892 Fax (432) 561-8895

Occidental Permian Ltd.
5 Greenway Plaza Suite 110
Houston, TX 77046

Date: October 20, 2011

30-015-28527

Attention: Camilo Arias

Re: Occidental Permian Ltd.
Well: Sundance 4 #32Y
Eddy County, New Mexico

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:

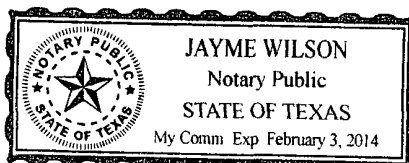
Name & Title Of Surveyor	Well Number	Surveyed Depths	Dates Performed	Type of Survey
Jesse Koves	4 #32Y	560' MD	2/26/2011	Measurement
MWD Supervisor		6268' MD	3/21/2011	While Drilling

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

Jesse Aguilar
Area Manager

On this, the 20th day of October, 2011, before me a notary public, the undersigned officer, personally appeared Jesse Aguilar, 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



Weatherford

SURVEY REPORT

Report Date: 3/16/2011

Customer: Oxy

Job Name: 4021939

Well Name: Sundance 4 # 92

Field: Lost Tank Federal

Rig: H&P 345

Rig Loc: Eddy County, NM

Survey Calculation Method: Minimum Curvature						
Magnetic Reference	Target Direction	Total Magnetic Field	Magnetic Dip Angle	Magnetic Declination	Grid Convergence	Total Correction
Grid North	0.00 deg	48934 nT	60.60 deg	8.09 deg	-0.08 deg	8.17 deg
Survey Tie-On	Depth	INC	AZ	TVD	NS	EW
	445.00 ft	0.19 deg	292.68 deg	445.00 ft	0.32 ft	-1.84 ft

Depth (ft)	Inc (deg)	Azm (deg)	TVD (ft)	Well Head		Vsect (ft)	Dogleg (deg/100ft)
				NS (ft)	EW (ft)		
560.00	0.42	276.72	560.00	0.44	-2.43	0.44	0.21
650.00	0.44	276.30	650.00	0.52	-3.10	0.52	0.02
741.00	0.63	273.05	740.99	0.58	-3.94	0.58	0.21
831.00	0.69	284.30	830.99	0.74	-4.96	0.74	0.16
966.00	0.75	289.55	965.98	1.24	-6.58	1.24	0.07
1101.00	0.88	306.17	1100.96	2.14	-8.24	2.14	0.20
1236.00	0.94	308.42	1235.94	3.44	-9.94	3.44	0.05
1326.00	0.94	307.55	1325.93	4.34	-11.10	4.34	0.02
1417.00	0.94	306.55	1416.92	5.24	-12.29	5.24	0.02
1506.00	0.88	309.05	1505.91	6.10	-13.40	6.10	0.08
1597.00	0.88	304.80	1596.90	6.94	-14.51	6.94	0.07
1687.00	0.81	301.92	1686.89	7.67	-15.62	7.67	0.08
1776.00	0.63	309.80	1775.88	8.31	-16.52	8.31	0.24
1866.00	0.56	310.80	1865.88	8.91	-17.24	8.91	0.07
1956.00	0.56	305.05	1955.87	9.46	-17.93	9.46	0.06
2181.00	0.75	296.42	2180.86	10.74	-20.16	10.74	0.09
2406.00	1.13	297.55	2405.83	12.42	-23.43	12.42	0.17
2631.00	1.28	306.61	2630.78	14.94	-27.40	14.94	0.11
2856.00	1.00	301.17	2855.73	17.45	-31.09	17.45	0.13
3171.00	0.19	300.80	3170.71	19.13	-33.89	19.13	0.26
3261.00	0.09	244.55	3260.71	19.18	-34.08	19.18	0.17
3306.00	0.06	214.20	3305.71	19.14	-34.12	19.14	0.11
3394.00	0.06	339.39	3393.71	19.15	-34.16	19.15	0.11
3565.00	2.15	96.75	3564.67	18.85	-31.00	18.85	1.27
3620.00	4.00	91.70	3619.59	18.67	-28.06	18.67	3.40
3787.00	5.00	90.17	3786.07	18.48	-14.95	18.48	0.60
3889.00	5.69	90.30	3887.63	18.44	-5.45	18.44	0.67
3934.00	5.69	89.30	3932.41	18.45	-0.99	18.45	0.22
4024.00	5.81	88.92	4021.96	18.59	8.02	18.59	0.15
4070.00	5.75	90.80	4067.72	18.61	12.65	18.61	0.43
4114.00	5.75	89.67	4111.50	18.59	17.06	18.59	0.26
4205.00	5.69	92.05	4202.05	18.45	26.13	18.45	0.27
4250.00	5.64	91.62	4246.83	18.31	30.56	18.31	0.14



Weatherford

Client : OXY Permian
Well : Sundance 4 #32 Y
Location : Eddy County, NM
License :
Comment : J. Vinson

Page: 1
Date : 3/21/2011
File : 4021939 S

UWI #:

Vertical Section Calculated Along Azimuth 90.00°

KB Elevation = 3414.70ft GR. Elevation = 3395.20ft

	MD	Inc	Azi	TVD	North	East	V'Sect	D'Leg	Build	Turn
	ft	deg	deg	ft	ft	ft	ft	%/100	%/100	%/100
0	4250.00	5.64	91.62	4246.83	18.31	30.56	30.56	0.00	0.00	0.00
1	4374.00	4.48	96.78	4370.35	17.57	41.46	41.46	1.00	-0.94	4.16
2	4419.00	3.97	95.86	4415.22	17.20	44.76	44.76	1.14	-1.13	-2.04
3	4554.00	3.39	102.09	4549.94	15.89	53.31	53.31	0.52	-0.43	4.61
4	4690.00	2.49	103.60	4685.76	14.35	60.11	60.11	0.66	-0.66	1.11
5	4825.00	2.54	100.14	4820.63	13.13	65.91	65.91	0.12	0.04	-2.56
6	4960.00	2.04	103.06	4955.53	12.06	71.19	71.19	0.38	-0.37	2.16
7	5095.00	1.57	104.80	5090.46	11.05	75.32	75.32	0.35	-0.35	1.29
8	5230.00	1.24	107.75	5225.42	10.13	78.50	78.50	0.25	-0.24	2.19
9	5365.00	1.26	111.07	5360.39	9.15	81.27	81.27	0.06	0.01	2.46
10	5500.00	1.19	113.81	5495.35	8.05	83.94	83.94	0.07	-0.05	2.03
11	5635.00	1.29	112.79	5630.32	6.90	86.63	86.63	0.08	0.07	-0.76
12	5770.00	1.20	113.29	5765.29	5.75	89.33	89.33	0.07	-0.07	0.37
13	5904.00	1.19	115.01	5899.26	4.61	91.88	91.88	0.03	-0.01	1.28
14	6038.00	1.03	126.69	6033.24	3.30	94.10	94.10	0.21	-0.12	8.72
15	6173.00	1.14	119.81	6168.21	1.91	96.24	96.24	0.13	0.08	-5.10
16	6268.00	1.22	129.23	6263.19	0.80	97.84	97.84	0.22	0.08	9.92
Straightline Projection to Bit @ TD										
EXT	6330.00	1.22	129.23	6325.18	-0.04	98.87	98.87	0.00	0.00	0.00

Bottom Hole Closure 98.87ft Along Azimuth 90.02°