

Reservoir Development
Schlumberger Drilling and Measurements
9200 West Reno Avenue
Oklahoma City, Oklahoma 73127 USA
Phone: (405) 789-1515
Fax: (405) 789-1519

Schlumberger
Drilling & Measurements

NM OIL CONSERVATION
ARTESIA DISTRICT

~~FEB 22 2016~~

December 18, 2015

RECEIVED

OXY USA WTP LP
5 Greenway Plaza Suite 110
Houston, TX 77046

Re:

Sect 35 T24S R29E NMPM 1850FSL 240FEL
N 32.18605 W 103.98123

CLIENT: OXY USA WTP LP
WELL: CEDAR CANYON 27 FEDERAL 6H
FIELD: PIERCE CROSSING
RIG: H&P 615
COUNTY: Eddy
API NO: 30-015-43232
JOB NO: 15MLD2438

Enclosed, please find the original copy of the survey performed on the referenced well by PathFinder, a division of Schlumberger Technology Corporation.
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>
Kane Jannance MWD	CEDAR CANYON 27 FEDERAL 6H Original Hole	8038.00 Ft to 13643.00 Ft	October 11, 2015 to October 29, 2015	SlimPulse

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

Nathan Oakley ~
Field Service Manager

Reservoir Development
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Oklahoma City, Oklahoma 73127 USA
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Well Reference:
Sect 35 T24S R29E NMPM 1850FSL 240FEL
N 32.18605 W 103.98123

I, Kane Jumanee certify that; I am employed by Schlumberger Drilling and Measurements; that I did on the day(s) of October 11, 2015 through October 29, 2015, conduct or supervise the taking of the SlimPulse surveys from a depth of 8038.00 feet to a depth of 13643.00 feet referenced to driller's depth; that the data is true, correct, complete and within the limitations of the tool as set forth by Schlumberger Drilling and Measurements; that I am authorized and qualified to make this report; that this survey W71 request of OXY USA WTP LP for the CEDAR CANYON 27 FEDERAL 611 Well (Original Hole) API No. 30-015-43232 and that I have reviewed this report and find that it conforms to the principals and procedures as set forth by Schlumberger Drilling and Measurements.

Emily Martin Signed on behalf of Kane Jumanee by
Emily Martin

By
Kane Jumanee
MWD

Subscribed and Sworn to before me this 18th day of December (month) 2015 (yr)

My Commission expires:

September 5, 2016

Michelle Ellwood

Notary Public

Midland, TX
(County State)



(signature)



H&P 615

H&P 615

1000



TVD (ft) Scale = 1:150 (ft)

Distance (ft)	TVD (ft)	Notes
0	7500	Wellhead
1000	7550	Casing 14\"/>
2000	7600	Casing 14\"/>
3000	7650	Casing 14\"/>
4000	7700	Casing 14\"/>
5000	7750	Casing 14\"/>
6000	7800	Casing 14\"/>
7000	7850	Casing 14\"/>
8000	7900	Casing 14\"/>

Vertical Section (ft) Azim = 91.624° Scale = 1:150(ft) Origin = 0N/5.0E/W

SCHLUMBERGER
Survey Report

1-Nov-2015

Client: OXY USA WTP LIMITED PTHASH P
Field: PIERCE CROSSING

Well: CEDAR CANYON 27 FEDERAL 6H
API number: 30-015-43232
Engineer: Kane Iunancee

County: Eddy
State: New Mexico
Rig: H&P 615

Spud date: 11-Oct-15
Last survey date: 29-Oct-15
Total accepted surveys: 70
MD of first survey: 8018.00 ft
MD of last survey: 13643.00 ft

Latitude: 32° 11' 9.787" N
Longitude: 103° 58' 52.419" W

Survey calculation methods

Method for positions: Minimum curvature
Method for DLS: Lubinski

Depth reference

Permanent datum: MSL
Depth reference: Driller's Depth
GL above permanent: 2915.00
KB above permanent: 2951.50
DF above permanent: 2951.50

Vertical section origin

Latitude (+N/-): 0.00 ft
Departure (+E/-): 0.00 ft

Grid Coordinates

NAD27 New Mexico State Plane, Eastern Zone, US Feet
X: 431584.22 ft
Y: 608930.25 ft

Azimuth from Vsect Origin to target: 91.62 degrees

MWD Survey Reference Criteria

Run1 Calculation Date: 16-Oct-2015
Location G: 998.94325 mgn Tolerance G: 2.50 mgn
Location B: 48347.26 nT Tolerance B: 300.00 nT
Magnetic Dip: 60.034 degrees Tolerance Dip: 0.45 degrees

Run2 Calculation Date: 18-Oct-2015
Location G: 998.94325 mgn Tolerance G: 2.50 mgn
Location B: 48346.67 nT Tolerance B: 300.00 nT
Magnetic Dip: 60.0452 degrees Tolerance Dip: 0.45 degrees

Run3 Calculation Date: 19-Oct-2015
Location G: 998.94325 mgn Tolerance G: 2.50 mgn
Location B: 48346.38 nT Tolerance B: 300.00 nT
Magnetic Dip: 60.0452 degrees Tolerance Dip: 0.45 degrees

Run4 Calculation Date: 20-Oct-2015
Location G: 998.94325 mgn Tolerance G: 2.50 mgn
Location B: 48346.09 nT Tolerance B: 300.00 nT
Magnetic Dip: 60.0452 degrees Tolerance Dip: 0.45 degrees

Run5 Calculation Date: 24-Oct-2015
Location G: 998.94325 mgn Tolerance G: 2.50 mgn
Location B: 48344.91 nT Tolerance B: 300.00 nT
Magnetic Dip: 60.045 degrees Tolerance Dip: 0.45 degrees

Run6 Calculation Date: 25-Oct-2015
Location G: 998.94325 mgn Tolerance G: 2.50 mgn
Location B: 48344.62 nT Tolerance B: 300.00 nT
Magnetic Dip: 60.045 degrees Tolerance Dip: 0.45 degrees

Run7 Calculation Date: 27-Oct-2015
Location G: 998.94325 mgn Tolerance G: 2.50 mgn
Location B: 48344.04 nT Tolerance B: 300.00 nT
Magnetic Dip: 60.045 degrees Tolerance Dip: 0.45 degrees

Run8 Calculation Date: 27-Oct-2015
Location G: 998.94325 mgn Tolerance G: 2.50 mgn
Location B: 48344.04 nT Tolerance B: 300.00 nT
Magnetic Dip: 60.045 degrees Tolerance Dip: 0.45 degrees

HDGM Model: 2015

-----Run1-----

Magnetic dec (+E/W-): 7.2853 degrees
Grid Conv (+E/W-): 0.1853 degrees
Total Azim Corr (+E/W-): 7.1 degrees

-----Run2-----

Magnetic dec (+E/W-): 7.2847 degrees
Grid Conv (+E/W-): 0.1847 degrees
Total Azim Corr (+E/W-): 7.1 degrees

-----Run3-----

Magnetic dec (+E/W-): 7.2844 degrees
Grid Conv (+E/W-): 0.1844 degrees
Total Azim Corr (+E/W-): 7.1 degrees

-----Run4-----

Magnetic dec (+E/W-): 7.2843 degrees
Grid Conv (+E/W-): 0.1843 degrees
Total Azim Corr (+E/W-): 7.1 degrees

-----Run5-----

Magnetic dec (+E/W-): 7.2833 degrees
Grid Conv (+E/W-): 0.1833 degrees
Total Azim Corr (+E/W-): 7.1 degrees

-----Run6-----

Magnetic dec (+E/W-): 7.2827 degrees
Grid Conv (+E/W-): 0.1827 degrees
Total Azim Corr (+E/W-): 7.1 degrees

-----Run7-----

Magnetic dec (+E/W-): 7.2823 degrees
Grid Conv (+E/W-): 0.1921 degrees
Total Azim Corr (+E/W-): 7.09 degrees

-----Run8-----

Magnetic dec (+E/W-): 7.2821 degrees
Grid Conv (+E/W-): 0.1921 degrees
Total Azim Corr (+E/W-): 7.09 degrees

-----Survey Correction Index Description-----

0 = Uncorrected 1 = Sag Corrected

2 = DMAG Corrected 3 = Sag + DMAG Corrected

Survey List													
Seq	MD (ft)	Incl (deg)	Azim (deg)	Course (ft)	TVD (ft)	V Sec (ft)	N/S (ft)	E/W (ft)	Closure (ft)	at Azi (deg)	DLS (deg/100ft)	Tool	Correction
1	0.00	0.00	0.00	-999.25	0.00	0.00	0.00	0.00	0	90.00	0.00	TIP	0
2	26.50	0.00	0.00	26.50	26.50	0.00	0.00	0.00	0	90.00	0.00	GL	0
3	100.00	1.00	66.22	73.50	100.00	0.58	0.26	0.59	0.64	66.22	1.36	GyroTool	0
4	125.00	1.33	67.27	25.00	124.99	1.00	0.44	1.01	1.11	66.45	0.53	GyroTool	0
5	150.00	1.26	65.56	25.00	149.99	1.47	0.65	1.49	1.63	66.43	0.54	GyroTool	0
6	175.00	1.30	63.41	25.00	174.98	1.97	0.89	2.00	2.19	65.93	0.25	GyroTool	0
7	200.00	1.31	63.77	25.00	199.97	2.47	1.14	2.51	2.75	65.44	0.05	GyroTool	0
8	225.00	1.37	60.88	25.00	224.97	2.98	1.42	3.02	3.34	64.89	0.36	GyroTool	0
9	250.00	1.43	59.84	25.00	249.96	3.50	1.72	3.55	3.95	64.19	0.26	GyroTool	0
10	275.00	1.51	56.64	25.00	274.95	4.04	2.06	4.10	4.59	63.35	0.46	GyroTool	0
11	300.00	1.59	56.06	25.00	299.94	4.59	2.43	4.66	5.26	62.45	0.33	GyroTool	0
12	325.00	1.69	57.31	25.00	324.93	5.18	2.82	5.26	5.97	61.77	0.42	GyroTool	0
13	350.00	1.81	55.95	25.00	349.92	5.80	3.24	5.90	6.73	61.18	0.51	GyroTool	0
14	375.00	1.89	54.57	25.00	374.91	6.45	3.70	6.56	7.53	60.55	0.37	GyroTool	0
15	400.00	1.92	52.58	25.00	399.89	7.11	4.20	7.23	8.36	59.85	0.29	GyroTool	0
16	425.00	1.81	50.71	25.00	424.88	7.73	4.70	7.87	9.16	59.13	0.50	GyroTool	0
17	430.00	1.70	51.07	5.00	429.88	7.85	4.80	7.99	9.32	59.00	2.21	GyroTool	0
18	450.00	1.25	53.15	20.00	449.87	8.24	5.12	8.39	9.83	58.63	2.27	GyroTool	0
19	475.00	0.96	54.88	25.00	474.87	8.62	5.40	8.78	10.31	58.41	1.17	GyroTool	0
20	500.00	0.47	55.09	25.00	499.86	8.87	5.58	9.04	10.62	58.31	1.96	GyroTool	0
21	525.00	0.08	51.69	25.00	524.86	8.97	5.65	9.13	10.74	58.26	1.56	GyroTool	0
22	550.00	0.04	65.40	25.00	549.86	8.99	5.66	9.15	10.76	58.26	0.17	GyroTool	0
23	575.00	0.05	71.69	25.00	574.86	9.01	5.67	9.17	10.78	58.28	0.04	GyroTool	0
24	600.00	0.04	46.49	25.00	599.86	9.03	5.68	9.19	10.8	58.28	0.09	GyroTool	0
25	625.00	0.04	201.07	25.00	624.86	9.03	5.68	9.19	10.8	58.30	0.31	GyroTool	0

26	850.00	0.04	160.82	25.00	649.86	9.01	5.66	9.19	10.8	58.37	0.11	GyroTool	0
27	675.00	0.03	46.02	25.00	674.86	9.04	5.66	9.20	10.8	58.41	0.24	GyroTool	0
28	700.00	0.03	179.81	25.00	699.86	9.04	5.66	9.21	10.8	58.43	0.22	GyroTool	0
29	725.00	0.04	56.43	25.00	724.86	9.05	5.65	9.21	10.81	58.46	0.25	GyroTool	0
30	750.00	0.05	336.44	25.00	749.86	9.05	5.67	9.22	10.82	58.40	0.23	GyroTool	0
31	775.00	0.05	339.41	25.00	774.86	9.04	5.69	9.21	10.82	58.29	0.01	GyroTool	0
32	800.00	0.06	81.54	25.00	799.86	9.05	5.70	9.22	10.84	58.26	0.33	GyroTool	0
33	825.00	0.04	359.81	25.00	824.86	9.06	5.71	9.23	10.85	58.25	0.27	GyroTool	0
34	850.00	0.04	62.04	25.00	849.86	9.07	5.72	9.24	10.87	58.21	0.17	GyroTool	0
35	875.00	0.03	7.19	25.00	874.86	9.08	5.73	9.25	10.88	58.19	0.13	GyroTool	0
36	900.00	0.04	10.88	25.00	899.86	9.08	5.75	9.25	10.89	58.13	0.04	GyroTool	0
37	925.00	0.04	291.55	25.00	924.86	9.07	5.76	9.24	10.89	58.06	0.20	GyroTool	0
38	950.00	0.05	320.22	25.00	949.86	9.06	5.77	9.23	10.88	57.97	0.10	GyroTool	0
39	975.00	0.10	358.85	25.00	974.86	9.05	5.80	9.22	10.89	57.81	0.27	GyroTool	0
40	1000.00	0.06	26.38	25.00	999.86	9.06	5.84	9.22	10.92	57.68	0.22	GyroTool	0
41	1025.00	0.07	340.86	25.00	1024.86	9.06	5.86	9.23	10.93	57.56	0.20	GyroTool	0
42	1050.00	0.04	316.66	25.00	1049.86	9.04	5.88	9.21	10.93	57.44	0.15	GyroTool	0
43	1075.00	0.08	32.13	25.00	1074.86	9.05	5.90	9.22	10.95	57.36	0.32	GyroTool	0
44	1100.00	0.04	325.70	25.00	1099.86	9.05	5.93	9.22	10.96	57.27	0.30	GyroTool	0
45	1125.00	0.06	37.07	25.00	1124.86	9.05	5.94	9.22	10.97	57.20	0.24	GyroTool	0
46	1150.00	0.08	9.50	25.00	1149.86	9.06	5.97	9.24	11	57.11	0.15	GyroTool	0
47	1175.00	0.04	59.75	25.00	1174.86	9.07	5.99	9.25	11.02	57.05	0.25	GyroTool	0
48	1200.00	0.09	13.85	25.00	1199.86	9.08	6.02	9.26	11.04	56.98	0.27	GyroTool	0
49	1225.00	0.08	38.40	25.00	1224.86	9.10	6.05	9.27	11.07	56.88	0.15	GyroTool	0
50	1250.00	0.06	317.27	25.00	1249.86	9.10	6.07	9.28	11.09	56.79	0.37	GyroTool	0
51	1275.00	0.08	33.90	25.00	1274.86	9.10	6.10	9.28	11.1	56.68	0.35	GyroTool	0
52	1300.00	0.06	46.90	25.00	1299.86	9.12	6.12	9.30	11.13	56.64	0.10	GyroTool	0
53	1325.00	0.04	318.10	25.00	1324.86	9.12	6.14	9.30	11.14	56.58	0.29	GyroTool	0
54	1350.00	0.05	193.82	25.00	1349.86	9.11	6.13	9.29	11.13	56.58	0.32	GyroTool	0
55	1375.00	0.07	24.30	25.00	1374.86	9.12	6.14	9.29	11.14	56.57	0.48	GyroTool	0
56	1400.00	0.05	44.81	25.00	1399.86	9.13	6.16	9.31	11.16	56.52	0.12	GyroTool	0
57	1425.00	0.09	320.81	25.00	1424.86	9.13	6.18	9.31	11.17	56.41	0.37	GyroTool	0
58	1450.00	0.05	34.54	25.00	1449.86	9.12	6.21	9.30	11.18	56.28	0.39	GyroTool	0
59	1475.00	0.08	46.04	25.00	1474.86	9.14	6.23	9.32	11.21	56.25	0.13	GyroTool	0
60	1500.00	0.09	36.61	25.00	1499.86	9.16	6.26	9.35	11.25	56.20	0.07	GyroTool	0
61	1525.00	0.06	26.38	25.00	1524.86	9.18	6.28	9.36	11.28	56.13	0.13	GyroTool	0
62	1550.00	0.08	47.31	25.00	1549.86	9.20	6.31	9.38	11.3	56.09	0.13	GyroTool	0
63	1575.00	0.09	24.45	25.00	1574.86	9.22	6.34	9.40	11.34	56.02	0.14	GyroTool	0
64	1600.00	0.08	29.61	25.00	1599.86	9.24	6.37	9.42	11.37	55.93	0.05	GyroTool	0
65	1625.00	0.14	28.89	25.00	1624.86	9.26	6.42	9.44	11.41	55.82	0.24	GyroTool	0
66	1650.00	0.13	22.23	25.00	1649.86	9.28	6.47	9.47	11.46	55.67	0.07	GyroTool	0
67	1675.00	0.18	29.60	25.00	1674.86	9.31	6.53	9.50	11.52	55.51	0.21	GyroTool	0
68	1700.00	0.41	52.77	25.00	1699.86	9.40	6.61	9.59	11.65	55.40	1.02	GyroTool	0
69	1725.00	0.71	41.44	25.00	1724.86	9.57	6.78	9.76	11.89	55.20	1.27	GyroTool	0
70	1750.00	1.57	23.82	25.00	1749.86	9.80	7.21	10.00	12.39	54.20	3.68	GyroTool	0
71	1775.00	1.93	20.51	25.00	1774.86	10.06	7.92	10.29	12.98	52.41	1.50	GyroTool	0
72	1800.00	1.95	19.48	25.00	1799.86	10.33	8.72	10.58	13.71	50.51	0.17	GyroTool	0
73	1825.00	1.75	18.72	25.00	1824.86	10.57	9.48	10.84	14.4	48.84	0.81	GyroTool	0
74	1850.00	1.20	15.44	25.00	1849.86	10.74	10.09	11.03	14.95	47.55	2.22	GyroTool	0
75	1875.00	0.99	18.75	25.00	1874.86	10.87	10.55	11.17	15.37	46.64	0.88	GyroTool	0
76	1900.00	0.90	22.04	25.00	1899.86	11.00	10.94	11.32	15.74	45.98	0.42	GyroTool	0
77	1925.00	1.29	25.61	25.00	1924.86	11.19	11.37	11.51	16.18	45.35	1.58	GyroTool	0
78	1950.00	1.67	29.07	25.00	1949.86	11.49	11.98	11.83	16.84	44.64	2.35	GyroTool	0
79	1975.00	2.51	31.17	25.00	1974.86	11.95	12.81	12.31	17.77	43.87	2.58	GyroTool	0
80	2000.00	3.15	31.67	25.00	1999.86	12.57	13.85	12.97	18.98	43.11	2.58	GyroTool	0
81	2025.00	3.56	32.80	25.00	2024.86	13.33	15.08	13.76	20.42	42.37	1.64	GyroTool	0
82	2050.00	3.61	33.28	25.00	2049.86	14.14	16.39	14.61	21.96	41.71	0.23	GyroTool	0
83	2075.00	3.29	34.92	25.00	2074.86	14.95	17.64	15.45	23.45	41.22	1.34	GyroTool	0
84	2100.00	2.75	37.44	25.00	2099.86	15.69	18.71	16.23	24.76	40.94	2.22	GyroTool	0
85	2125.00	1.62	43.47	25.00	2124.86	16.28	19.44	16.84	25.72	40.90	4.61	GyroTool	0
86	2150.00	1.12	43.41	25.00	2149.86	16.68	19.87	17.25	26.31	40.96	2.00	GyroTool	0
87	2175.00	0.72	36.66	25.00	2174.86	16.93	20.18	17.51	26.71	40.95	1.65	GyroTool	0
88	2200.00	0.52	40.62	25.00	2199.86	17.09	20.39	17.68	26.98	40.93	0.82	GyroTool	0
89	2225.00	0.51	41.93	25.00	2224.86	17.24	20.56	17.82	27.21	40.93	0.06	GyroTool	0
90	2250.00	0.47	43.30	25.00	2249.86	17.38	20.71	17.97	27.42	40.94	0.17	GyroTool	0
91	2275.00	0.42	47.57	25.00	2274.86	17.51	20.85	18.11	27.62	40.97	0.24	GyroTool	0
92	2300.00	0.57	45.01	25.00	2299.86	17.66	21.00	18.26	27.83	41.01	0.61	GyroTool	0
93	2325.00	0.93	52.01	25.00	2324.86	17.90	21.21	18.51	28.15	41.11	1.48	GyroTool	0
94	2350.00	1.88	61.20	25.00	2349.86	18.34	21.49	18.96	28.65	41.42	1.35	GyroTool	0
95	2375.00	1.78	66.91	25.00	2374.86	18.98	21.79	19.60	29.31	41.97	1.31	GyroTool	0
96	2400.00	2.10	74.25	25.00	2399.86	19.77	22.07	20.40	30.05	42.75	1.62	GyroTool	0
97	2425.00	2.25	74.69	25.00	2424.86	20.67	22.32	21.31	30.86	43.67	0.60	GyroTool	0
98	2450.00	2.35	76.17	25.00	2449.86	21.64	22.57	22.28	31.72	44.63	0.47	GyroTool	0
99	2475.00	2.35	77.46	25.00	2474.86	22.63	22.81	23.28	32.59	45.59	0.21	GyroTool	0
100	2500.00	2.25	77.00	25.00	2499.86	23.60	23.03	24.26	33.45	46.49	0.41	GyroTool	0
101	2525.00	1.62	81.57	25.00	2524.86	24.42	23.19	25.09	34.16	47.25	2.59	GyroTool	0
102	2550.00	1.06	87.22	25.00	2549.86	25.00	23.25	25.67	34.64	47.82	2.30	GyroTool	0
103	2575.00	0.96	86.32	25.00	2574.86	25.44	23.28	26.11	34.98	48.28	0.40	GyroTool	0
104	2600.00	0.88	91.39	25.00	2599.86	25.84	23.29	26.51	35.28	48.70	0.46	GyroTool	0
105	2625.00	0.84	86.67	25.00	2624.86	26.21	23.29	26.88	35.57	49.09	0.33	GyroTool	0
106	2650.00	0.67	85.08	25.00	2649.86	26.54	23.32	27.21	35.84	49.41	0.69	GyroTool	0
107	2675.00	0.31	87.51	25.00	2674.86	26.75	23.33	27.42	36.01	49.61	1.44	GyroTool	0
108	2700.00	0.18	77.00	25.00	2699.86	26.86	23.34	27.53	36.1	49.70	0.55	GyroTool	0
109	2725.00	0.14	116.08	25.00	2724.86	26.93	23.34	27.60	36.14	49.78	0.45	GyroTool	0
110	2750.00	0.16	84.62	25.00	2749.86	26.99	23.33	27.66	36.16	49.85	0.33	GyroTool	0

111	2775.00	0.12	110.43	25.00	2774.39	27.05	21.32	27.72	36.23	49.92	0.29	GyroTool	0
112	2800.00	0.09	90.97	25.00	2789.39	27.09	23.31	27.76	36.25	49.98	0.18	GyroTool	0
113	2825.00	0.06	287.81	25.00	2824.39	27.10	23.32	27.77	36.26	49.98	0.58	GyroTool	0
114	2850.00	0.08	52.69	25.00	2849.39	27.10	23.34	27.77	36.28	49.98	0.47	GyroTool	0
115	2875.00	0.09	208.35	25.00	2874.39	27.11	23.33	27.78	36.27	49.97	0.66	GyroTool	0
116	2900.00	0.11	177.47	25.00	2899.39	27.10	21.38	27.77	36.24	50.01	0.23	GyroTool	0
117	2925.00	0.08	178.85	25.00	2924.39	27.10	23.25	27.77	36.22	50.07	0.12	GyroTool	0
118	2950.00	0.09	296.96	25.00	2949.39	27.08	23.24	27.75	36.2	50.06	0.58	GyroTool	0
119	2975.00	0.06	341.38	25.00	2974.39	27.06	23.26	27.73	36.19	50.01	0.25	GyroTool	0
120	3000.00	0.05	340.07	25.00	2999.39	27.05	23.28	27.72	36.2	49.98	0.04	GyroTool	0
121	3025.00	0.05	47.40	25.00	3024.39	27.06	23.30	27.73	36.22	49.96	0.22	GyroTool	0
122	3050.00	0.04	180.09	25.00	3049.39	27.07	23.30	27.74	36.22	49.97	0.33	GyroTool	0
123	3075.00	0.08	285.96	25.00	3074.39	27.05	23.30	27.72	36.21	49.96	0.39	GyroTool	0
124	3100.00	0.11	255.52	25.00	3099.39	27.01	23.29	27.68	36.18	49.92	0.23	GyroTool	0
125	3125.00	0.06	293.99	25.00	3124.39	26.97	23.29	27.64	36.15	49.88	0.29	GyroTool	0
126	3150.00	0.04	306.82	25.00	3149.39	26.95	23.30	27.62	36.14	49.85	0.09	GyroTool	0
127	3175.00	0.05	296.38	25.00	3174.39	26.94	23.31	27.61	36.14	49.82	0.05	GyroTool	0
128	3200.00	0.04	133.62	25.00	3199.39	26.93	23.31	27.60	36.13	49.82	0.36	GyroTool	0
129	3225.00	0.05	279.91	25.00	3224.39	26.93	23.31	27.60	36.13	49.82	0.34	GyroTool	0
130	3250.00	0.04	105.63	25.00	3249.39	26.93	23.31	27.60	36.12	49.82	0.36	GyroTool	0
131	3275.00	0.04	172.35	25.00	3274.39	26.94	23.30	27.61	36.12	49.84	0.18	GyroTool	0
132	3300.00	0.07	328.66	25.00	3299.39	26.93	23.30	27.60	36.12	49.83	0.43	GyroTool	0
133	3325.00	0.05	274.02	25.00	3324.39	26.91	23.32	27.58	36.12	49.79	0.23	GyroTool	0
134	3350.00	0.11	216.02	25.00	3349.39	26.89	23.30	27.56	36.08	49.79	0.37	GyroTool	0
135	3375.00	0.11	221.67	25.00	3374.39	26.86	23.26	27.53	36.04	49.80	0.04	GyroTool	0
136	3400.00	0.06	256.12	25.00	3399.39	26.83	23.24	27.50	36	49.80	0.28	GyroTool	0
137	3425.00	0.04	134.34	25.00	3424.39	26.82	23.23	27.49	35.99	49.80	0.35	GyroTool	0
138	3450.00	0.03	249.98	25.00	3449.39	26.82	23.23	27.49	35.99	49.81	0.14	GyroTool	0
139	3475.00	0.04	219.83	25.00	3474.39	26.81	23.21	27.48	35.97	49.81	0.08	GyroTool	0
140	3500.00	0.03	171.49	25.00	3499.39	26.81	23.20	27.48	35.96	49.82	0.12	GyroTool	0
141	3525.00	0.07	346.30	25.00	3524.39	26.81	23.21	27.47	35.96	49.81	0.40	GyroTool	0
142	3550.00	0.04	290.73	25.00	3549.39	26.79	23.22	27.46	35.97	49.78	0.23	GyroTool	0
143	3575.00	0.03	5.58	25.00	3574.39	26.79	23.23	27.45	35.97	49.76	0.17	GyroTool	0
144	3600.00	0.05	258.09	25.00	3599.39	26.78	23.24	27.44	35.96	49.74	0.26	GyroTool	0
145	3625.00	0.07	138.40	25.00	3624.39	26.78	23.23	27.44	35.95	49.76	0.42	GyroTool	0
146	3650.00	0.05	355.43	25.00	3649.39	26.78	23.22	27.45	35.96	49.77	0.46	GyroTool	0
147	3675.00	0.06	224.29	25.00	3674.39	26.77	23.23	27.44	35.95	49.76	0.40	GyroTool	0
148	3700.00	0.07	65.47	25.00	3699.39	26.78	23.22	27.45	35.95	49.76	0.51	GyroTool	0
149	3725.00	0.04	333.41	25.00	3724.39	26.79	23.24	27.46	35.97	49.76	0.33	GyroTool	0
150	3750.00	0.05	322.72	25.00	3749.39	26.78	23.25	27.45	35.97	49.73	0.05	GyroTool	0
151	3775.00	0.03	147.81	25.00	3774.39	26.77	23.26	27.44	35.97	49.72	0.32	GyroTool	0
152	3800.00	0.05	198.88	25.00	3799.39	26.77	23.24	27.44	35.96	49.74	0.16	GyroTool	0
153	3825.00	0.04	234.55	25.00	3824.39	26.76	23.23	27.43	35.94	49.75	0.12	GyroTool	0
154	3850.00	0.05	117.88	25.00	3849.39	26.77	23.22	27.43	35.94	49.76	0.31	GyroTool	0
155	3875.00	0.07	138.80	25.00	3874.39	26.79	23.20	27.45	35.94	49.80	0.12	GyroTool	0
156	3900.00	0.06	332.06	25.00	3899.39	26.79	23.20	27.46	35.95	49.81	0.52	GyroTool	0
157	3925.00	0.04	185.90	25.00	3924.39	26.78	23.20	27.45	35.94	49.80	0.38	GyroTool	0
158	3950.00	0.06	207.53	25.00	3949.39	26.78	23.18	27.44	35.92	49.81	0.11	GyroTool	0
159	3975.00	0.07	170.94	25.00	3974.39	26.78	23.15	27.44	35.9	49.84	0.17	GyroTool	0
160	4000.00	0.04	148.29	25.00	3999.39	26.78	23.13	27.45	35.9	49.88	0.14	GyroTool	0
161	4025.00	0.04	325.83	25.00	4024.39	26.78	23.13	27.45	35.89	49.88	0.32	GyroTool	0
162	4050.00	0.06	130.05	25.00	4049.39	26.79	23.13	27.45	35.9	49.88	0.40	GyroTool	0
163	4075.00	0.05	190.28	25.00	4074.39	26.79	23.11	27.46	35.89	49.91	0.25	GyroTool	0
164	4100.00	0.03	133.15	25.00	4099.39	26.80	23.10	27.46	35.88	49.93	0.23	GyroTool	0
165	4125.00	0.07	39.27	25.00	4124.39	26.81	23.11	27.48	35.9	49.94	0.27	GyroTool	0
166	4150.00	0.04	134.81	25.00	4149.39	26.83	23.11	27.49	35.92	49.95	0.34	GyroTool	0
167	4175.00	0.11	174.43	25.00	4174.39	26.84	23.08	27.50	35.92	49.99	0.33	GyroTool	0
168	4200.00	0.04	74.93	25.00	4199.39	26.85	23.06	27.51	35.9	50.03	0.49	GyroTool	0
169	4225.00	0.03	185.18	25.00	4224.39	26.86	23.06	27.52	35.9	50.04	0.23	GyroTool	0
170	4250.00	0.08	13.26	25.00	4249.39	26.86	23.07	27.52	35.93	50.03	0.44	GyroTool	0
171	4275.00	0.05	91.01	25.00	4274.39	26.87	23.09	27.54	35.93	50.03	0.34	GyroTool	0
172	4300.00	0.08	134.98	25.00	4299.39	26.90	23.07	27.56	35.94	50.07	0.22	GyroTool	0
173	4325.00	0.06	187.02	25.00	4324.39	26.91	23.05	27.57	35.94	50.11	0.26	GyroTool	0
174	4350.00	0.07	198.90	25.00	4349.39	26.90	23.02	27.57	35.93	50.13	0.07	GyroTool	0
175	4375.00	0.06	155.12	25.00	4374.39	26.91	22.99	27.57	35.9	50.17	0.20	GyroTool	0
176	4400.00	0.05	285.64	25.00	4399.39	26.90	22.98	27.56	35.89	50.17	0.40	GyroTool	0
177	4425.00	0.03	213.57	25.00	4424.39	26.89	22.98	27.55	35.88	50.16	0.20	GyroTool	0
178	4450.00	0.08	214.46	25.00	4449.39	26.87	22.96	27.53	35.85	50.17	0.20	GyroTool	0
179	4475.00	0.08	142.53	25.00	4474.39	26.87	22.93	27.53	35.83	50.21	0.38	GyroTool	0
180	4500.00	0.06	188.83	25.00	4499.39	26.88	22.91	27.54	35.82	50.25	0.23	GyroTool	0
181	4525.00	0.06	95.25	25.00	4524.39	26.90	22.89	27.55	35.82	50.28	0.35	GyroTool	0
182	4550.00	0.05	240.63	25.00	4549.39	26.90	22.89	27.56	35.82	50.29	0.42	GyroTool	0
183	4575.00	0.06	125.28	25.00	4574.39	26.90	22.87	27.56	35.81	50.31	0.37	GyroTool	0
184	4600.00	0.05	309.64	25.00	4599.39	26.90	22.87	27.56	35.82	50.31	0.44	GyroTool	0
185	4625.00	0.07	153.53	25.00	4624.39	26.90	22.87	27.56	35.81	50.32	0.47	GyroTool	0
186	4650.00	0.05	100.04	25.00	4649.39	26.92	22.85	27.58	35.81	50.35	0.23	GyroTool	0
187	4675.00	0.05	2.46	25.00	4674.39	26.93	22.86	27.59	35.83	50.35	0.30	GyroTool	0
188	4700.00	0.04	218.23	25.00	4699.39	26.92	22.87	27.58	35.83	50.34	0.33	GyroTool	0
189	4725.00	0.06	65.00	25.00	4724.39	26.93	22.86	27.59	35.83	50.35	0.40	GyroTool	0
190	4750.00	0.07	150.78	25.00	4749.39	26.95	22.86	27.61	35.84	50.38	0.36	GyroTool	0
191	4775.00	0.23	150.31	25.00	4774.39	26.98	22.80	27.64	35.83	50.48	0.64	GyroTool	0
192	4800.00	0.91	148.63	25.00	4799.39	27.12	22.59	27.77	35.79	50.87	2.72	GyroTool	0
193	4825.00	1.00	155.37	25.00	4824.39	27.41	22.02	28.05	35.66	51.87	4.41	GyroTool	0
194	4850.00	3.30	158.79	25.00	4849.39	27.89	20.95	28.49	35.37	53.67	5.24	GyroTool	0
195	4875.00	4.85	158.75	25.00	4874.39	28.58	19.30	29.14	34.95	56.48	6.20	GyroTool	0

196	4900.00	8.07	158.19	25.00	4899.17	29.52	17.09	30.01	34.53	60.35	4.88	GyroTool	0
197	4925.00	7.28	157.78	25.00	4924.00	30.68	14.39	31.10	34.27	65.17	4.84	GyroTool	0
198	4950.00	8.00	158.26	25.00	4948.78	32.07	11.33	32.40	34.33	70.72	2.99	GyroTool	0
199	4975.00	8.53	155.10	25.00	4973.52	33.64	8.06	33.88	34.83	76.62	2.22	GyroTool	0
200	5000.00	9.10	153.05	25.00	4998.22	35.41	4.61	35.56	35.86	82.61	2.60	GyroTool	0
201	5025.00	9.53	152.15	25.00	5012.85	37.38	1.02	37.42	37.44	88.44	1.89	GyroTool	0
202	5050.00	10.01	150.36	25.00	5047.53	39.53	-2.71	39.47	39.56	93.92	2.27	GyroTool	0
203	5075.00	10.39	148.90	25.00	5072.13	41.88	-6.53	41.71	42.22	98.90	1.77	GyroTool	0
204	5100.00	10.49	147.60	25.00	5096.72	44.37	-10.38	44.09	45.3	103.25	1.02	GyroTool	0
205	5125.00	10.54	146.88	25.00	5121.30	46.95	-14.22	46.56	48.69	106.98	0.56	GyroTool	0
206	5150.00	10.74	146.48	25.00	5145.87	49.59	-18.08	49.10	52.92	110.21	0.85	GyroTool	0
207	5175.00	10.82	145.43	25.00	5170.43	52.32	-21.95	51.72	56.18	113.00	0.85	GyroTool	0
208	5200.00	10.83	144.05	25.00	5194.88	55.13	-25.78	54.43	60.22	115.35	1.04	GyroTool	0
209	5225.00	10.74	142.80	25.00	5219.54	58.03	-29.54	57.21	64.39	117.31	1.00	GyroTool	0
210	5250.00	10.80	142.19	25.00	5244.10	60.97	-33.25	60.06	68.65	118.97	0.52	GyroTool	0
211	5275.00	11.11	141.36	25.00	5268.65	64.02	-36.98	63.00	73.05	120.41	1.39	GyroTool	0
212	5300.00	11.33	140.99	25.00	5293.17	67.17	-40.77	66.05	77.62	121.68	0.93	GyroTool	0
213	5325.00	11.47	140.19	25.00	5317.67	70.42	-44.58	69.19	82.31	122.80	0.84	GyroTool	0
214	5350.00	11.47	140.02	25.00	5342.17	73.71	-48.40	72.37	87.07	123.77	0.14	GyroTool	0
215	5375.00	11.29	139.92	25.00	5366.68	76.99	-52.18	75.55	91.81	124.63	0.72	GyroTool	0
216	5400.00	10.69	139.49	25.00	5391.22	80.17	-55.81	78.63	96.42	125.37	2.42	GyroTool	0
217	5425.00	9.36	138.31	25.00	5415.84	83.12	-59.09	81.49	100.66	125.95	5.38	GyroTool	0
218	5450.00	8.45	138.12	25.00	5440.54	85.78	-61.98	84.06	104.44	126.40	3.64	GyroTool	0
219	5475.00	7.15	135.92	25.00	5465.31	88.16	-64.46	86.37	107.78	126.74	5.33	GyroTool	0
220	5500.00	6.52	134.90	25.00	5490.13	90.31	-66.58	88.46	110.72	126.97	2.57	GyroTool	0
221	5525.00	5.97	134.20	25.00	5514.98	92.30	-68.49	90.40	113.42	127.15	2.22	GyroTool	0
222	5550.00	5.48	132.52	25.00	5539.86	94.15	-70.20	92.21	115.89	127.28	2.15	GyroTool	0
223	5575.00	5.25	131.23	25.00	5564.75	95.93	-71.76	93.94	118.22	127.30	0.97	GyroTool	0
224	5600.00	5.37	129.40	25.00	5589.64	97.74	-73.26	95.71	120.53	127.43	0.83	GyroTool	0
225	5625.00	5.50	128.48	25.00	5614.53	99.61	-74.75	97.55	122.89	127.46	0.63	GyroTool	0
226	5650.00	5.64	127.19	25.00	5639.41	101.58	-76.23	99.47	125.32	127.47	0.75	GyroTool	0
227	5675.00	5.77	127.03	25.00	5664.29	103.61	-77.73	101.45	127.8	127.46	0.52	GyroTool	0
228	5700.00	5.89	126.23	25.00	5689.16	105.68	-79.25	103.49	130.34	127.44	0.58	GyroTool	0
229	5725.00	5.94	126.38	25.00	5714.03	107.80	-80.77	105.56	132.92	127.42	0.21	GyroTool	0
230	5750.00	6.03	126.71	25.00	5738.89	109.94	-82.33	107.66	135.53	127.41	0.39	GyroTool	0
231	5775.00	6.08	126.83	25.00	5763.73	112.09	-83.90	109.77	138.16	127.39	0.13	GyroTool	0
232	5800.00	6.09	127.38	25.00	5788.61	114.25	-85.50	111.88	140.8	127.39	0.26	GyroTool	0
233	5825.00	6.12	128.10	25.00	5813.47	116.40	-87.12	113.98	143.46	127.39	0.33	GyroTool	0
234	5850.00	6.31	128.84	25.00	5838.32	118.56	-88.81	116.10	146.17	127.41	0.82	GyroTool	0
235	5875.00	6.53	128.46	25.00	5863.16	120.79	-90.55	118.28	148.96	127.44	0.90	GyroTool	0
236	5900.00	6.68	129.05	25.00	5888.00	123.08	-92.35	120.52	151.84	127.46	0.66	GyroTool	0
237	5925.00	6.86	130.19	25.00	5912.82	125.41	-94.23	122.79	154.78	127.50	0.90	GyroTool	0
238	5950.00	6.99	130.47	25.00	5937.64	127.76	-96.18	125.09	157.79	127.58	0.54	GyroTool	0
239	5975.00	7.09	131.19	25.00	5962.45	130.13	-98.19	127.41	160.85	127.62	0.53	GyroTool	0
240	6000.00	7.20	131.44	25.00	5987.26	132.53	-100.24	129.74	163.96	127.69	0.46	GyroTool	0
241	6025.00	7.30	131.55	25.00	6012.06	134.95	-102.33	132.11	167.1	127.76	0.40	GyroTool	0
242	6050.00	7.54	131.78	25.00	6036.85	137.42	-104.48	134.52	170.33	127.84	0.97	GyroTool	0
243	6075.00	7.65	131.69	25.00	6061.63	139.95	-106.68	136.98	173.62	127.91	0.44	GyroTool	0
244	6100.00	7.84	131.98	25.00	6086.40	142.52	-108.92	139.49	176.98	127.98	0.78	GyroTool	0
245	6125.00	7.86	131.68	25.00	6111.17	145.14	-111.22	142.05	180.41	128.06	0.51	GyroTool	0
246	6150.00	8.05	132.11	25.00	6135.92	147.80	-113.54	144.65	183.89	128.13	0.43	GyroTool	0
247	6175.00	7.97	132.03	25.00	6160.68	150.45	-115.88	147.23	187.36	128.20	0.32	GyroTool	0
248	6200.00	7.74	132.27	25.00	6185.44	153.05	-118.17	149.77	190.77	128.27	0.93	GyroTool	0
249	6225.00	7.65	133.10	25.00	6210.22	155.57	-120.44	152.23	194.11	128.35	0.57	GyroTool	0
250	6250.00	7.71	133.17	25.00	6234.99	158.07	-122.72	154.66	197.44	128.43	0.24	GyroTool	0
251	6275.00	7.74	133.77	25.00	6259.77	160.57	-125.03	157.10	200.79	128.52	0.34	GyroTool	0
252	6300.00	7.83	133.97	25.00	6284.54	163.08	-127.38	159.54	204.16	128.60	0.38	GyroTool	0
253	6325.00	7.79	134.78	25.00	6309.30	165.58	-129.76	161.97	207.54	128.70	0.47	GyroTool	0
254	6350.00	7.77	135.16	25.00	6334.07	168.03	-132.15	164.36	210.9	128.80	0.27	GyroTool	0
255	6375.00	7.71	134.75	25.00	6358.85	170.48	-134.53	166.75	214.25	128.90	0.36	GyroTool	0
256	6400.00	7.24	132.76	25.00	6383.63	172.89	-136.78	169.09	217.49	128.97	2.15	GyroTool	0
257	6425.00	6.42	130.67	25.00	6408.46	175.16	-138.76	171.31	220.46	129.01	3.43	GyroTool	0
258	6450.00	5.55	124.80	25.00	6433.32	177.26	-140.36	173.36	223.06	129.00	4.25	GyroTool	0
259	6475.00	4.63	116.94	25.00	6458.22	179.19	-141.51	175.25	225.25	128.92	4.61	GyroTool	0
260	6500.00	4.06	109.46	25.00	6483.15	180.94	-142.26	176.99	227.08	128.79	3.21	GyroTool	0
261	6525.00	3.47	101.99	25.00	6508.10	182.53	-142.71	178.56	228.59	128.63	3.06	GyroTool	0
262	6550.00	2.77	91.53	25.00	6533.06	183.87	-142.89	179.91	229.75	128.46	3.60	GyroTool	0
263	6575.00	1.94	83.96	25.00	6558.04	184.90	-142.86	180.93	230.53	128.29	3.54	GyroTool	0
264	6600.00	0.92	53.43	25.00	6583.03	185.48	-142.69	181.51	230.89	128.17	4.96	GyroTool	0
265	6625.00	0.39	16.48	25.00	6608.03	185.65	-142.49	181.70	230.91	128.10	2.61	GyroTool	0
266	6650.00	0.26	353.57	25.00	6633.03	185.67	-142.36	181.72	230.84	128.07	0.73	GyroTool	0
267	6675.00	0.26	304.68	25.00	6658.03	185.61	-142.27	181.66	230.74	128.07	0.86	GyroTool	0
268	6700.00	0.23	290.79	25.00	6683.03	185.52	-142.22	181.57	230.64	128.07	0.27	GyroTool	0
269	6725.00	0.12	351.57	25.00	6708.03	185.47	-142.17	181.52	230.57	128.07	0.80	GyroTool	0
270	6750.00	0.12	332.40	25.00	6733.03	185.45	-142.12	181.50	230.53	128.06	0.16	GyroTool	0
271	6775.00	0.23	264.89	25.00	6758.03	185.39	-142.11	181.44	230.47	128.07	0.86	GyroTool	0
272	6800.00	0.30	235.66	25.00	6783.03	185.28	-142.15	181.34	230.41	128.09	0.58	GyroTool	0
273	6825.00	0.34	195.21	25.00	6808.03	185.21	-142.25	181.26	230.42	128.12	0.92	GyroTool	0
274	6850.00	0.50	169.16	25.00	6833.03	185.22	-142.43	181.26	230.53	128.16	0.98	GyroTool	0
275	6875.00	0.52	163.55	25.00	6858.03	185.28	-142.55	181.32	230.7	128.19	0.22	GyroTool	0
276	6900.00	0.41	144.78	25.00	6883.02	185.37	-142.83	181.40	230.88	128.22	0.75	GyroTool	0
277	6925.00	0.38	123.98	25.00	6908.02	185.49	-142.95	181.52	231.05	128.22	0.58	GyroTool	0
278	6950.00	0.31	46.92	25.00	6933.02	185.61	-142.95	181.64	231.14	128.20	1.73	GyroTool	0
279	6975.00	0.57	354.62	25.00	6958.02	185.64	-142.78	181.68	231.07	128.16	1.81	GyroTool	0
280	7000.00	0.78	340.84	25.00	6983.02	185.56	-142.49	181.61	230.84	128.12	1.06	GyroTool	0

281	7025.00	0.87	333.08	25.00	7008.02	183.41	-142.16	181.47	230.52	128.08	0.57	GyroTool	0
282	7050.00	0.89	324.31	25.00	7033.02	185.19	-141.82	181.26	230.14	128.04	0.74	GyroTool	0
283	7075.00	1.09	323.10	25.00	7058.01	184.91	-141.45	180.99	229.71	128.01	0.41	GyroTool	0
284	7100.00	1.24	325.50	25.00	7083.01	184.61	-141.04	180.69	229.22	127.97	0.63	GyroTool	0
285	7125.00	1.40	325.41	25.00	7108.00	184.27	-140.57	180.36	228.67	127.93	0.64	GyroTool	0
286	7150.00	1.53	322.19	25.00	7132.99	183.87	-140.05	179.99	228.06	127.89	0.60	GyroTool	0
287	7175.00	1.72	321.96	25.00	7157.98	183.42	-139.49	179.55	227.37	127.84	0.76	GyroTool	0
288	7200.00	1.05	319.83	25.00	7182.97	182.89	-138.85	179.03	226.57	127.80	1.35	GyroTool	0
289	7225.00	2.23	317.92	25.00	7207.95	182.25	-138.15	178.42	225.65	127.75	0.77	GyroTool	0
290	7250.00	2.28	317.59	25.00	7232.93	181.57	-137.42	177.76	224.68	127.71	0.21	GyroTool	0
291	7275.00	2.17	312.10	25.00	7257.91	180.86	-136.74	177.07	223.72	127.68	0.96	GyroTool	0
292	7300.00	2.09	304.71	25.00	7282.89	180.12	-136.16	176.84	222.79	127.67	1.14	GyroTool	0
293	7325.00	2.11	298.77	25.00	7307.88	179.33	-135.68	175.57	221.88	127.70	0.87	GyroTool	0
294	7350.00	2.49	287.67	25.00	7332.86	178.40	-135.29	174.64	220.92	127.76	2.34	GyroTool	0
295	7375.00	2.79	282.90	25.00	7357.83	177.28	-134.99	173.53	219.86	127.88	1.49	GyroTool	0
296	7400.00	3.07	278.56	25.00	7382.80	176.02	-134.76	172.28	218.72	128.03	1.43	GyroTool	0
297	7425.00	3.18	277.25	25.00	7407.76	174.67	-134.57	170.93	217.55	128.21	0.52	GyroTool	0
298	7450.00	3.32	276.56	25.00	7432.72	173.25	-134.40	169.57	216.34	128.41	0.58	GyroTool	0
299	7475.00	3.52	275.21	25.00	7457.68	171.77	-134.25	168.04	215.08	128.62	0.86	GyroTool	0
300	7500.00	3.65	272.55	25.00	7482.63	170.21	-134.14	166.48	213.8	128.86	0.84	GyroTool	0
301	7525.00	3.72	269.30	25.00	7507.58	168.60	-134.12	164.87	212.53	129.13	0.88	GyroTool	0
302	7550.00	3.98	266.59	25.00	7532.52	166.92	-134.18	163.20	211.28	129.43	1.27	GyroTool	0
303	7575.00	4.08	262.82	25.00	7557.46	165.18	-134.34	161.45	210.03	129.76	1.15	GyroTool	0
304	7600.00	3.97	262.50	25.00	7582.40	163.44	-134.57	159.70	208.84	130.12	0.49	GyroTool	0
305	7625.00	3.81	258.12	25.00	7607.34	161.78	-134.85	158.03	207.75	130.47	1.35	GyroTool	0
306	7650.00	3.61	257.92	25.00	7632.29	160.21	-135.19	156.45	206.77	130.83	0.80	GyroTool	0
307	7675.00	3.59	254.85	25.00	7657.24	158.70	-135.56	154.93	205.86	131.19	0.78	GyroTool	0
308	7700.00	3.49	252.24	25.00	7682.19	157.23	-135.99	153.44	205.03	131.55	0.76	GyroTool	0
309	7725.00	3.43	251.61	25.00	7707.14	155.81	-136.46	152.01	204.28	131.91	0.28	GyroTool	0
310	7750.00	3.36	251.85	25.00	7732.10	154.42	-136.92	150.60	203.54	132.28	0.29	GyroTool	0
311	7775.00	3.19	254.63	25.00	7757.06	153.06	-137.34	149.24	202.81	132.62	0.91	GyroTool	0
312	7800.00	3.06	255.62	25.00	7782.02	151.75	-137.69	147.92	202.09	132.95	0.56	GyroTool	0
313	7825.00	2.81	261.62	25.00	7806.99	150.51	-137.94	146.67	201.34	133.24	1.58	GyroTool	0
314	7850.00	2.55	262.33	25.00	7831.96	149.36	-138.11	145.51	200.62	133.50	1.05	GyroTool	0
315	7875.00	2.42	268.20	25.00	7856.94	148.28	-138.20	144.41	199.9	133.74	1.14	GyroTool	0
316	7900.00	2.15	272.72	25.00	7881.92	147.29	-138.19	143.44	199.18	133.93	1.30	GyroTool	0
317	7925.00	1.92	274.20	25.00	7906.90	146.40	-138.14	142.55	198.5	134.10	0.94	GyroTool	0
318	7950.00	1.67	281.32	25.00	7931.89	145.62	-138.04	141.78	197.87	134.23	1.34	GyroTool	0
319	8038.00	1.91	3.24	88.00	8019.86	144.40	-136.32	140.60	195.83	134.11	2.68	SlimPulse	0
320	8089.00	6.55	43.80	51.00	8070.71	146.38	-133.36	142.66	195.29	133.07	10.29	SlimPulse	0
321	8182.00	12.01	27.60	93.00	8162.48	154.19	-120.95	150.83	193.33	128.73	6.45	SlimPulse	0
322	8213.00	12.12	8.84	31.00	8192.80	156.01	-114.87	152.82	191.18	126.93	12.60	SlimPulse	0
323	8272.00	9.53	23.52	59.00	8250.74	158.61	-104.27	155.72	187.41	123.81	6.38	SlimPulse	2
324	8318.00	13.40	36.77	46.00	8295.84	163.10	-96.50	160.44	187.22	121.03	10.12	SlimPulse	2
325	8365.00	15.49	47.08	47.00	8341.36	170.71	-87.86	168.30	189.85	117.57	7.03	SlimPulse	2
326	8413.00	18.41	62.30	48.00	8387.29	181.90	-79.97	179.71	196.7	113.99	11.02	SlimPulse	2
327	8459.00	20.10	74.21	46.00	8430.73	195.78	-74.44	193.75	207.56	111.02	9.28	SlimPulse	2
328	8507.00	23.67	84.67	48.00	8475.28	213.23	-71.30	211.30	223	108.65	10.99	SlimPulse	2
329	8552.00	26.86	90.59	45.00	8515.98	232.37	-70.56	230.46	241.02	107.02	9.04	SlimPulse	2
330	8609.00	32.74	93.47	57.00	8565.43	260.67	-71.63	258.75	268.48	105.47	10.61	SlimPulse	2
331	8646.00	36.06	94.03	37.00	8595.95	281.56	-73.00	279.61	288.98	104.63	9.01	SlimPulse	2
332	8739.00	50.11	93.76	93.00	8663.70	344.88	-77.29	342.83	351.43	102.70	15.11	SlimPulse	2
333	8833.00	67.50	95.67	94.00	8712.21	424.85	-83.99	422.64	430.91	101.24	18.58	SlimPulse	2
334	8927.00	86.02	95.45	94.00	8733.64	515.74	-92.81	513.32	521.64	100.25	19.70	SlimPulse	2
335	9002.00	90.18	95.39	75.00	8736.13	590.51	-99.89	587.92	596.35	99.64	5.55	SlimPulse	2
336	9028.00	89.34	93.90	26.00	8738.24	616.48	-102.00	613.84	622.25	99.43	6.58	SlimPulse	2
337	9122.00	90.51	92.85	94.00	8736.36	710.43	-107.53	707.67	715.79	98.64	1.67	SlimPulse	2
338	9215.00	90.51	92.14	93.00	8735.53	803.41	-111.58	800.58	808.32	97.93	0.76	SlimPulse	2
339	9308.00	89.69	89.55	93.00	8735.37	896.40	-112.95	893.56	900.67	97.20	2.91	SlimPulse	2
340	9401.00	89.86	87.73	93.00	8735.73	989.27	-110.74	986.53	992.73	96.41	1.97	SlimPulse	2
341	9494.00	90.44	86.00	93.00	8735.49	1081.94	-105.66	1079.39	1084.54	95.59	1.96	SlimPulse	2
342	9587.00	91.34	89.20	93.00	8734.05	1174.69	-101.76	1172.28	1176.69	94.96	3.57	SlimPulse	2
343	9680.00	91.30	91.85	93.00	8731.90	1267.64	-103.43	1265.21	1269.45	94.67	3.92	SlimPulse	2
344	9774.00	91.44	94.51	94.00	8729.66	1361.55	-109.46	1359.00	1363.4	94.60	1.77	SlimPulse	2
345	9867.00	90.72	94.57	93.00	8727.90	1454.41	-116.82	1451.69	1456.38	94.60	0.78	SlimPulse	2
346	9960.00	88.04	90.62	93.00	8728.91	1547.37	-121.03	1544.56	1549.3	94.48	5.13	SlimPulse	2
347	10054.00	88.76	93.91	94.00	8731.53	1641.31	-124.74	1638.44	1643.18	94.35	3.58	SlimPulse	2
348	10147.00	87.55	91.98	93.00	8734.53	1734.23	-129.52	1731.26	1736.1	94.28	2.45	SlimPulse	2
349	10242.00	87.79	91.98	95.00	8738.39	1829.15	-132.80	1826.13	1830.95	94.16	0.25	SlimPulse	2
350	10335.00	88.45	91.52	93.00	8741.44	1922.10	-135.64	1919.03	1923.82	94.04	0.86	SlimPulse	2
351	10430.00	88.93	90.88	95.00	8741.61	2017.07	-137.63	2013.99	2018.68	93.91	0.84	SlimPulse	2
352	10523.00	88.76	91.06	93.00	8745.49	2110.05	-139.20	2106.96	2111.55	93.78	0.27	SlimPulse	2
353	10616.00	88.59	90.65	93.00	8747.64	2203.01	-140.59	2199.92	2204.41	93.66	0.48	SlimPulse	2
354	10709.00	88.69	91.60	93.00	8749.84	2295.98	-142.41	2292.87	2297.29	93.55	1.02	SlimPulse	0
355	10803.00	82.41	89.87	94.00	8757.13	2389.64	-143.62	2386.53	2390.85	93.44	6.94	SlimPulse	0
356	10898.00	89.86	90.58	95.00	8763.70	2484.32	-144.00	2481.24	2485.42	93.32	7.67	SlimPulse	0
357	10991.00	99.29	91.51	93.00	8756.46	2576.92	-145.68	2573.83	2577.95	93.24	10.40	SlimPulse	0
358	11085.00	92.10	87.37	94.00	8747.14	2670.31	-144.75	2667.28	2671.21	93.11	8.82	SlimPulse	0
359	11179.00	88.86	87.38	94.00	8746.35	2764.03	-140.44	2761.17	2764.74	92.91	3.44	SlimPulse	0
360	11273.00	87.35	84.62	94.00	8749.45	2857.52	-133.89	2854.88	2858.01	92.69	3.35	SlimPulse	0
361	11366.00	82.94	84.00	93.00	8757.33	2949.41	-124.71	2947.06	2949.7	92.42	4.79	SlimPulse	0
362	11460.00	82.46	92.97	94.00	8769.31	3042.41	-122.24	3040.17	3042.62	92.30	9.48	SlimPulse	0
363	11554.00	87.28	95.54	94.00	8777.71	3135.90	-129.19	3133.50	3136.16	92.36	5.81	SlimPulse	0
364	11646.00	93.78	92.44	82.00	8776.95	3217.77	-134.90	3215.24	3218.07	92.40	8.78	SlimPulse	0
365	11730.00	97.55	90.68	94.00	8767.66	3311.29	-137.45	3308.73	3311.58	92.38	4.42	SlimPulse	0

356	11775.00	95.27	90.32	45.00	8762.64	3356.00	-137.84	3359.44	3356.27	92.15	5.14	SlimPulse	0
367	11825.00	92.27	88.58	50.00	8759.33	3405.84	-137.35	3408.32	3406.09	92.31	6.93	SlimPulse	0
368	11918.00	90.18	87.95	93.00	8757.21	3498.65	-134.51	3496.25	3498.84	92.20	2.14	SlimPulse	0
369	12012.00	90.21	88.39	94.00	8756.73	3592.48	-131.52	3590.20	3592.81	92.10	0.50	SlimPulse	0
370	12106.00	87.99	90.44	94.00	8758.53	3686.38	-130.58	3684.16	3686.48	92.03	3.53	SlimPulse	0
371	12200.00	88.11	91.59	94.00	8762.06	3780.31	-132.22	3778.08	3780.39	92.00	1.35	SlimPulse	0
372	12294.00	90.38	93.02	93.00	8761.28	3873.29	-135.97	3870.99	3873.38	92.01	2.88	SlimPulse	0
373	12387.00	91.48	91.87	94.00	8761.76	3967.26	-139.97	3964.89	3967.36	92.02	1.70	SlimPulse	0
374	12481.00	91.07	91.02	94.00	8759.67	4061.24	-142.34	4058.83	4061.33	92.01	1.00	SlimPulse	0
375	12575.00	89.04	86.28	94.00	8759.59	4155.08	-140.13	4152.78	4155.14	91.93	5.48	SlimPulse	0
376	12669.00	89.62	87.21	94.00	8760.69	4248.73	-134.80	4246.62	4248.76	91.82	1.17	SlimPulse	0
377	12762.00	92.51	87.91	93.00	8758.86	4341.47	-130.84	4339.51	4341.48	91.73	3.20	SlimPulse	0
378	12856.00	90.03	87.87	94.00	8756.87	4435.24	-127.37	4433.41	4435.24	91.65	2.63	SlimPulse	0
379	12949.00	87.63	88.82	93.00	8758.77	4528.06	-124.69	4526.35	4528.06	91.58	2.78	SlimPulse	0
380	13042.00	88.52	88.82	93.00	8761.89	4620.90	-122.85	4618.27	4620.91	91.52	0.97	SlimPulse	0
381	13135.00	91.41	89.48	93.00	8761.95	4713.81	-121.58	4712.28	4713.82	91.48	3.16	SlimPulse	0
382	13228.00	90.76	88.69	93.00	8760.19	4806.70	-120.07	4805.23	4806.73	91.43	1.11	SlimPulse	0
383	13321.00	89.76	87.78	95.00	8759.76	4901.53	-117.14	4900.18	4901.58	91.37	1.42	SlimPulse	0
384	13387.00	90.62	86.02	64.00	8759.55	4965.31	-113.68	4964.08	4965.38	91.31	3.06	SlimPulse	0
385	13416.00	91.38	86.39	29.00	8759.05	4994.18	-111.78	4993.01	4994.26	91.28	2.89	SlimPulse	0
386	13509.00	94.23	86.24	93.00	8754.50	5086.66	-105.79	5085.70	5086.8	91.19	3.08	SlimPulse	0
387	13602.00	97.00	86.64	93.00	8745.40	5178.82	-100.04	5178.06	5179.03	91.11	3.01	SlimPulse	0
388	13643.00	98.49	86.98	41.00	8739.87	5219.30	-97.78	5218.63	5219.54	91.07	3.72	SlimPulse	0
389	13695.00	98.49	86.98	52.00	8732.70	5270.57	-95.07	5269.99	5270.84	91.03	0.01	PROJ	0

OXY USA INC.
Cedar Canyon 27 Federal #6H
API No. 30-015-43232

14-3/4" hole @ 436'
10-3/4" csg @ 436'
w/ 540sx-TOC-Surf-Circ.

9-7/8" hole @ 8003'
7-5/8" csg @ 8003'
w/ 1530sx-TOC-Surf-Circ.
DVT @ 3028'

6-3/4" hole @ 13695'
5-1/2" X 4-1/2" csg @ 13680'
w/ 740sx-TOC-200' CBL

Perfs @ 9257-13441'

TD- 13695'M 8732'V