

Schlumberger Drilling and Measurements
Drilling Group
Geo Market Area: South West Texas Basin
7220 W I-H 20
Midland, Texas 79706
Phone : (432) 742-5400 (Main)
Fax : (432) 742-5606 (Shared)

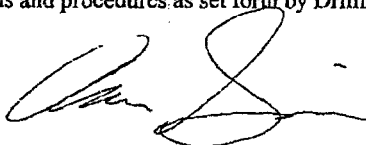
Schlumberger

30-015-44272

Well Reference:
18, 24S, 31E, Eddy NM
N 32.22418 W -103.80931

I, Aaron Simon certify that; I am employed by Drilling & Measurements, a division of Schlumberger Technology Corporation; that I did on the day(s) of October 12, 2017 through October 20, 2017, conduct or supervise the taking of the TelePacer & SlimPulse surveys from a depth of 4250.00 feet to a depth of 15077.00 feet referenced to driller's depth; that the data is true, correct, complete and within the limitations of the tool as set forth by Drilling & Measurements, a division of Schlumberger Technology Corporation; that I am authorized and qualified to make this report; that this survey was conducted at the request of Oxy USA Inc for the Patton MDP1-18 Federal 5H Well (Original Hole) API No. 30-015-44272 in New Mexico; and that I have reviewed this report and find that it conforms to the principals and procedures as set forth by Drilling & Measurements, a division of Schlumberger Technology Corporation.

By
Aaron Simon
FE



Subscribed and Sworn to before me this 23 day of October (month) 2017 (yr)

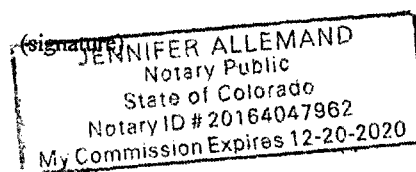
My Commission expires:

12-20-2020

J. Allemand

Notary Public

Adams County Colorado
(County State)



Schlumberger**OXY**

Borehole:

Original Borehole

Well:

Oxy Patton MDP1 18 Federal 5H

Field:

NM Eddy County (NAD 83)

Structure:

Oxy Patton MDP1 18 Federal 5H

Gravity & Magnetic Parameters

Model: HGM 2017 Dpt: 59.98° Date: 16-Oct-2017
 MagDec: 6.956° FS: 48083.085NT Gravity FS: 998.428mg (9.80665 Based)

Surface Location

NAD83 New Mexico State Plane Eastern Zone, US Feet
 Lat: N 32 13 27.05 Northing: 445648.808US
 Lon: W 103 48 33.52 Easting: 703382.258US

Miscellaneous

Stat: Oxy Patton MDP1 18 Federal 5H
 Plan: Oxy Patton MDP1 18 Federal 5H REV3 LBN 16Oct17
 Grid Conv: 0.2794
 Scale Fact: 0.99993916

Critical Point

Rucker
 531.02
 0.86
 151.90
 591.00
 1.99
 -2.19
 1.22
 0.02
 948.04
 0.22
 232.46
 948.00
 4.82
 -5.10
 2.15
 0.01
 2790.05
 0.21
 250.54
 2790.00
 9.12
 -8.66
 -3.78
 0.01
 4270.06
 0.13
 328.74
 4270.00
 10.97
 -9.74
 -9.20
 0.33
 4313.06
 0.14
 332.41
 4313.00
 10.89
 -9.65
 -9.35
 0.03
 5083.06
 0.16
 207.38
 5083.00
 11.76
 -10.51
 -9.40
 0.09
 6519.53
 4.77
 3.62
 6519.00
 -2.43
 3.00
 -3.85
 1.44
 8199.44
 13.15
 245.85
 8128.00
 6.47
 50.41
 -387.99
 4.15
 9395.00
 10.50
 293.42
 9313.20
 -44.70
 118.93
 502.44
 9481.00
 11.40
 287.09
 9397.64
 -48.02
 124.55
 517.76
 9771.73
 96.00
 230.03
 9695.41
 11.33
 78.26
 -611.27
 10152.28
 65.00
 195.03
 9911.53
 274.68
 -168.30
 744.84
 10462.26
 85.59
 173.58
 9379.92
 571.90
 -485.83
 -764.38
 10770.47
 89.58
 179.74
 9682.16
 873.37
 -773.37
 -746.44
 14655.42
 89.58
 179.74
 10013.00
 5011.20
 -4958.16
 -727.78
 0.00

MD

INCL
 0.86
 0.22
 0.21
 0.13
 0.14
 0.16
 4.77
 13.15
 10.50
 11.40
 96.00
 65.00
 85.59
 89.58
 89.58
 NaN

INCL

AZIM
 151.90
 232.46
 250.54
 328.74
 332.41
 207.38
 3.62
 245.85
 293.42
 287.09
 230.03
 195.03
 173.58
 179.74
 179.74
 179.74
 179.74

Critical Points

TVD
 591.00
 948.00
 2790.00
 4270.00
 4313.00
 5083.00
 6519.00
 8128.00
 9313.20
 9397.64
 9695.41
 9911.53
 9379.92
 9682.16
 10013.00
 11507.00

VSEC

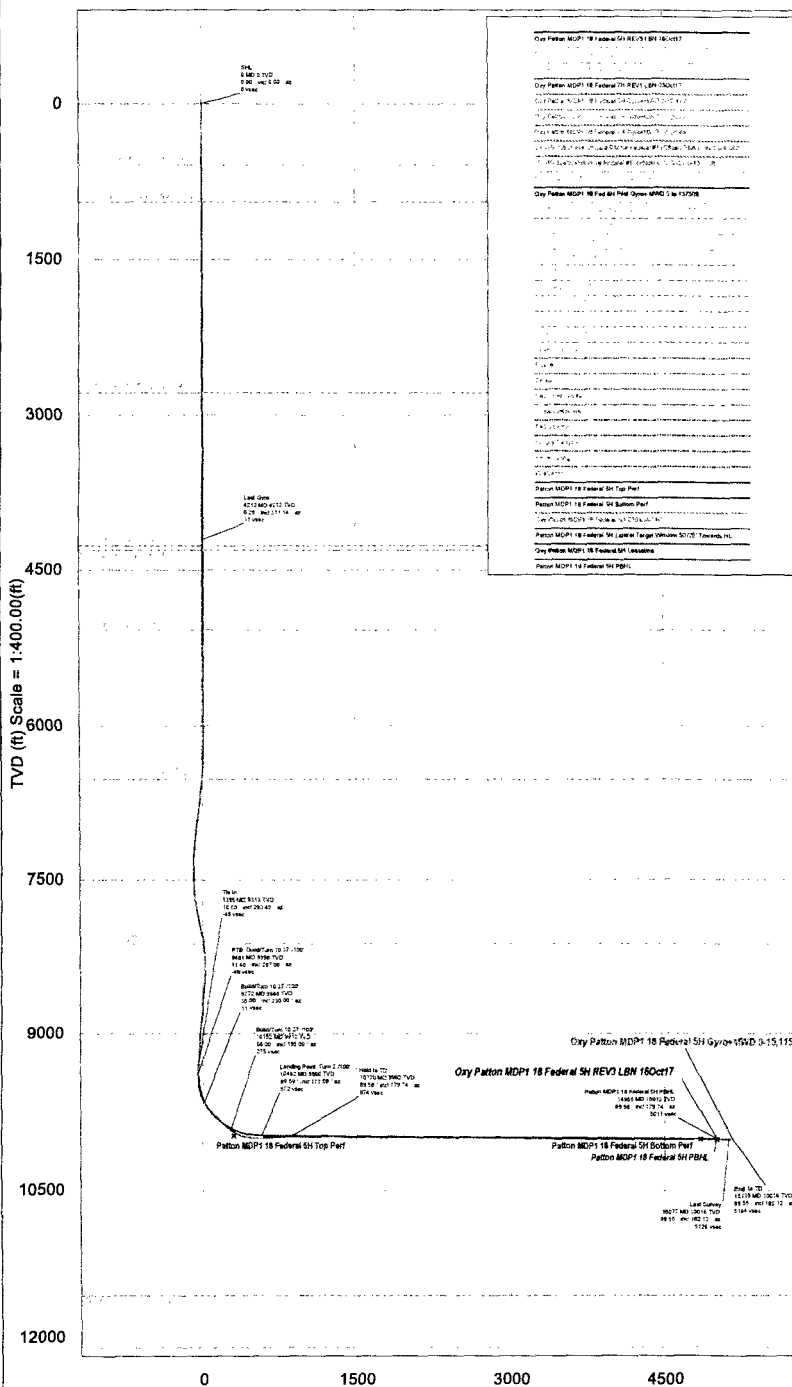
N(°)S(°)
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 -5.10
 -8.66
 -9.74
 -9.65
 -10.51
 -3.00
 50.41
 118.93
 124.55
 78.26
 -168.30
 -485.83
 -773.37
 -4958.16

E(°)W(°)

DLS
 0.02
 0.01
 0.01
 0.33
 0.03
 0.09
 1.44
 4.15
 502.44
 517.76
 -611.27
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 -764.38
 -746.44
 -727.78

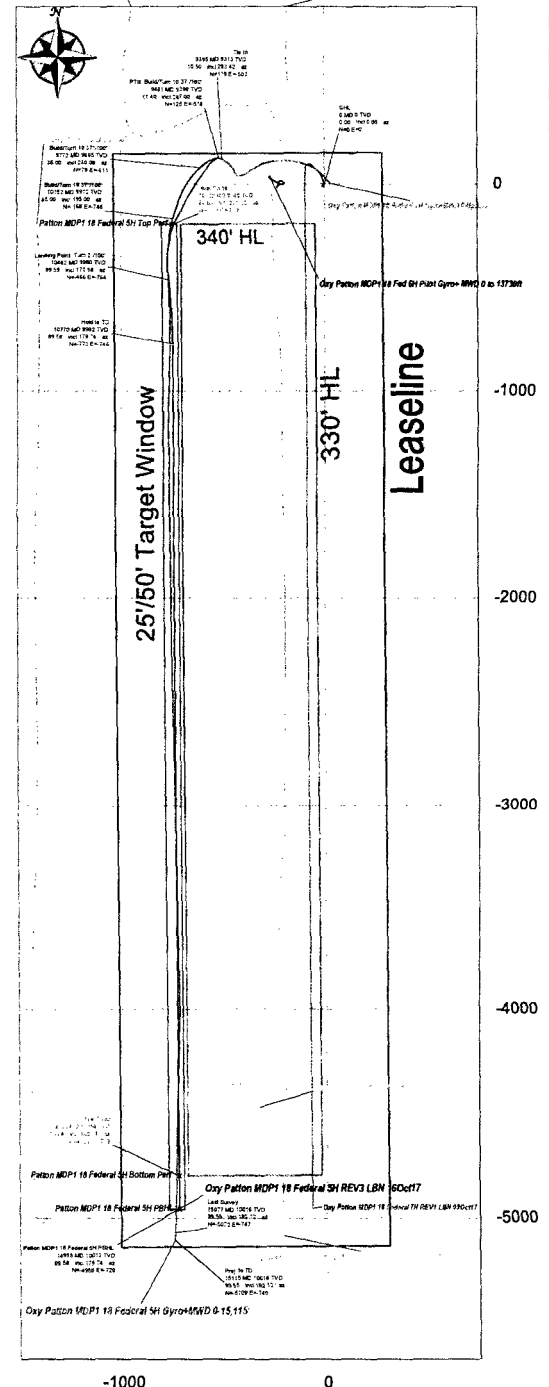


Grid North
 Tot Corr (M-G 6.676°)
 Mag Dec (6.956°)
 Grid Conv (0.279°)



Vertical Section (ft) Azim = 188.35° Scale = 1:400.00(ft) Origin = 0N-S, 0E-W

NS (ft) Scale = 1:200.00(ft)



EW (ft) Scale = 1:200.00(ft)