

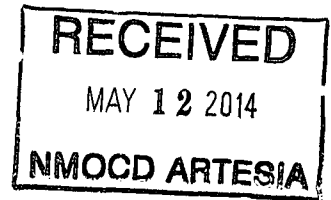
Schlumberger

30-015-40941

Schlumberger Technology Corporation
1325 S Dairy Ashford, Rm 5012
Houston, TX 77077
281-285-6262

May 8, 2014

State of New Mexico
Oil Conservation Division
District 2 - ARTESIA
811 S. First St.
Artesia, NM 88210



Attention: T.C. Shaffert

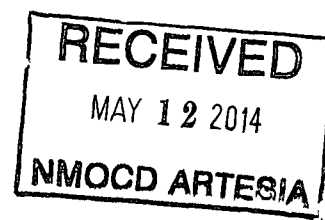
I, Elizabeth Rosborough, certify that I am employed by Schlumberger Technology Corporation; that I did on the day of 8 May, 2014 conduct or supervise the computation of a CONTINUOUS DIRECTIONAL SURVEY. The Continuous Directional Survey was conducted from a depth of 0 feet to a depth of 5332 feet. I certify that the data is true, correct, complete and within the limitations of the tool as set forth by Schlumberger Technology Corporation. I am authorized and qualified to make this report; and this survey was conducted at the request of Oxy USA WTP Limited Partnership for the well Tigger 9 State 010, API Number 30-015-40941, located in Eddy County, New Mexico. I have reviewed this report and find that it conforms to the principles and procedures as set forth by Schlumberger Technology Corporation.

Signature: Elizabeth Rosborough

Name: Elizabeth Rosborough

Job Title: Geology Tech.

Schlumberger



Tigger 9 State 010

General Information:

Company Name: Oxy USA WTP LP
Field: Empire; Glorieta-Yeso, East
Well: Tigger 9 State 010
County: Eddy
State: New Mexico
Surface Location: 940' FSL & 1726' FEL
Latitude: 32.8443181 deg N
Longitude: 104.0763909 deg W
API Number: 30-015-40941
Logging Engineer: Alexander Woll
Processed By: Elizabeth Rosborough
Service Order Number: CR7Y-00031
Job Number: DSP-2014-15085
Date Logged: 30-April-2014
Date Processed: 08-May-2014

Accepted for record
NMOCD

Bottom Hole Location:

Measured Depth	True Vertical Depth	North/South Drift	East/West Drift	Closure Distance	Closure Direction
Ft	Ft	Ft	Ft	Ft	Deg
5332.00	5331.47	31.56	7.42	32.42	13.24

Oxy USA WTP LP
Tigger 9 State 010

Schlumberger

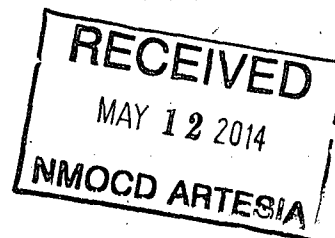
Schlumberger Technology Corporation
1325 S Dairy Ashford, Rm 5012
Houston, TX 77077
281-285-6262

Date: May 8, 2014

State of New Mexico
Oil Conservation Division
District 2 - ARTESIA
811 S. First St.
Artesia, NM 88210

Attention: T.C. Shaffert

Company Name: OXY USA WTP Limited Partnership
Well Name: Tigger 9 State 010
County: Eddy
State: New Mexico
API number: 30-015-40941

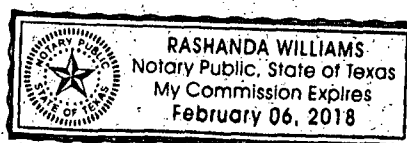


Enclosed please find the original copy of the Continuous Direction Survey performed by Schlumberger Wireline & Testing and Data Services, divisions of Schlumberger Technology Corporation (P-5 No. 754900). The Continuous Directional Survey was calculated from GPIT Survey data, and processed by Elizabeth Rosborough, PetroTechnical Services located in DS-Houston. 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>
Elizabeth Rosborough Geology Tech	1	0 ft - 5332 ft	May 8, 2014	GPIT

A certified plat on which the bottom hole location is oriented both to the 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 or call (281) 285-6262.

Elizabeth Rosborough
Elizabeth Rosborough
Geology Tech
Enclosures



Rashanda Williams
5/9/14

Schlumberger

GEOFRAME
PROCESSED
INTERPRETATION

Certified Directional Survey

0' MD - 5332' MD

*A Mark of Schlumberger

Using the following logs: GPIT

COMPANY: OXY USA WTP LIMITED PARTNERSHIP

WELL: Tigger 9 State 010

FIELD: Empire; Glorieta-Yeso, East

County: Eddy

State: New Mexico

COUNTRY: USA

Date Logged: 30-Apr-2014 Date Processed: 08-May-2014

Well Location: 940' FSL & 1726' FEL

Elevations: KB: 3582.7ft DF: 3581.7ft GL: 3568.7ft

API Number: 30-015-40941 Job Number: DSP-2014-15085

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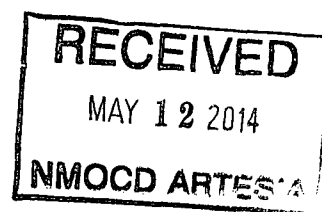
The well name, location and borehole reference data were furnished by the customer.

All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretations made by any of our officers, agents or employees. These interpretations are also subject to Clause 4 of our General Terms and Conditions as set out in our current Price Schedule.

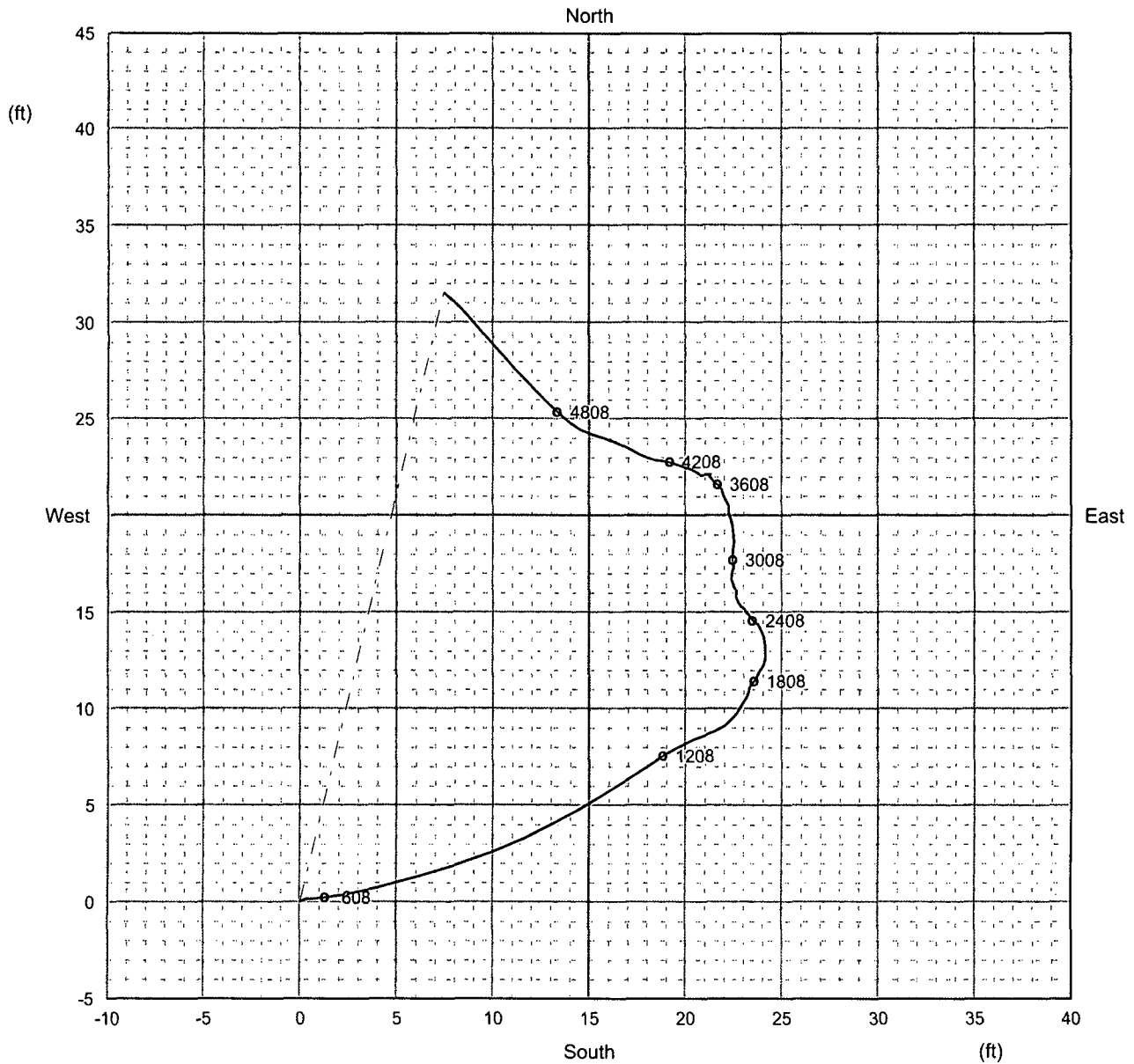
Field Recording:	Location: Roswell	Software Version: 20C0-999	Engineer: Alexander Woll
Office Recording:	ICS Center: Houston	Baseline:	Log Analyst: E. Rosborough
Mud and Borehole Measurements:			
Rm @ Measured Temperature: 0.06ohm.m @ 71degF		BHT: 102degF	Bitsize: 7.875in
Rmf @ Measured Temperature: 0.05ohm.m @ 71degF		Type Fluid in Hole:	Cut Brine
Rmc @ Measured Temperature: @ 68degF		Mud Density: 9.95lbm/gal	

Remarks:

0' MD - 447' MD in Casing...Assumed Vertical
GPIT Data Good at 458' MD
Grid Convergence Angle = 0.501 (deg)



Tigger 9 State 010

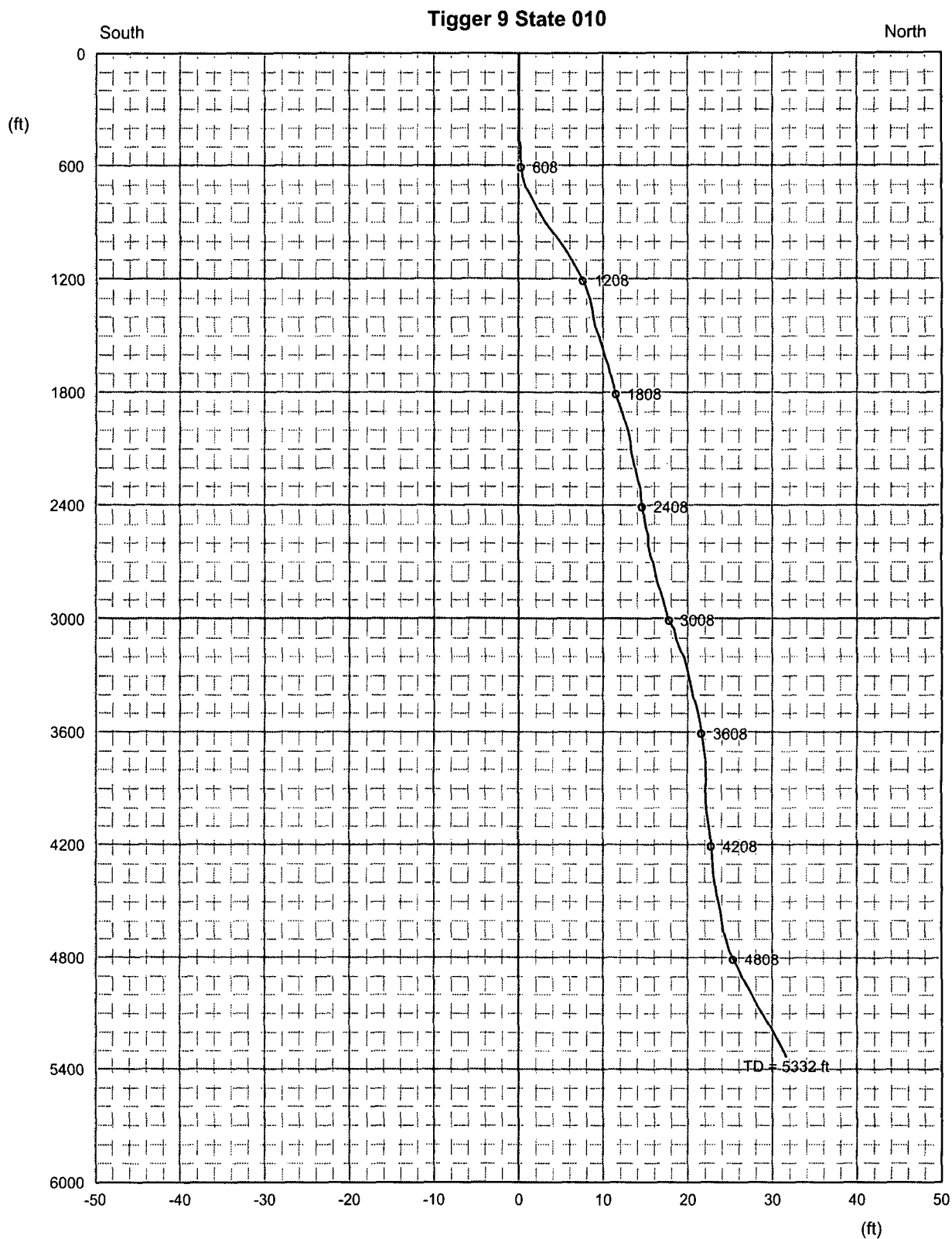


Projection on Horizontal Plane

Horizontal scale 1 in : 8 ft

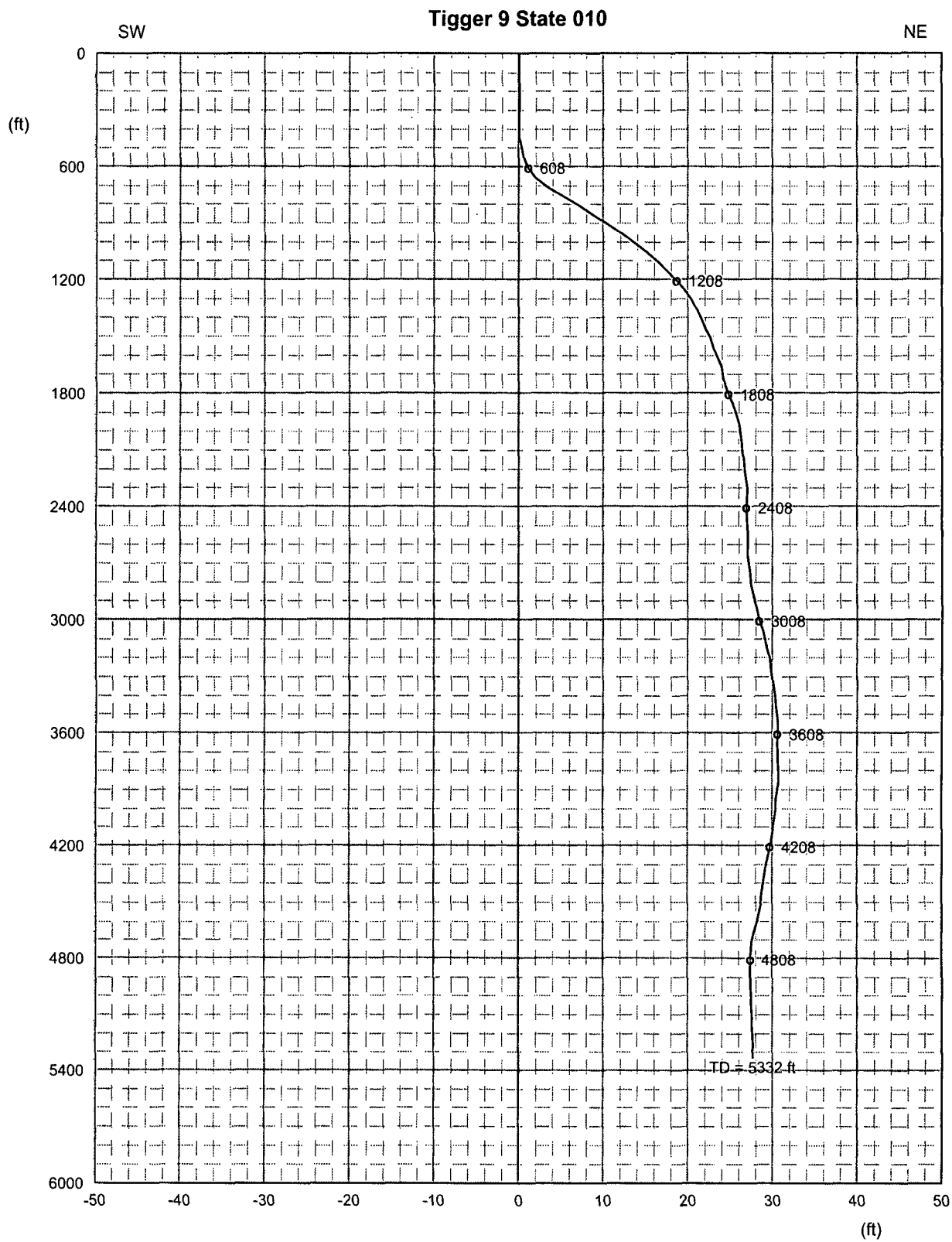
Minimum Curvature Method

Tie In Location			Bottom Hole Location		
Measured Depth	447.00	ft	Measured Depth	5332.00	ft
True Vertical Depth	447.00	ft	True Vertical Depth	5331.47	ft
Distance North	0.00	ft	Distance North	31.56	ft
Distance East	0.00	ft	Distance East	7.42	ft
			Closure Distance	32.42	ft
			Closure Direction	13.24	deg



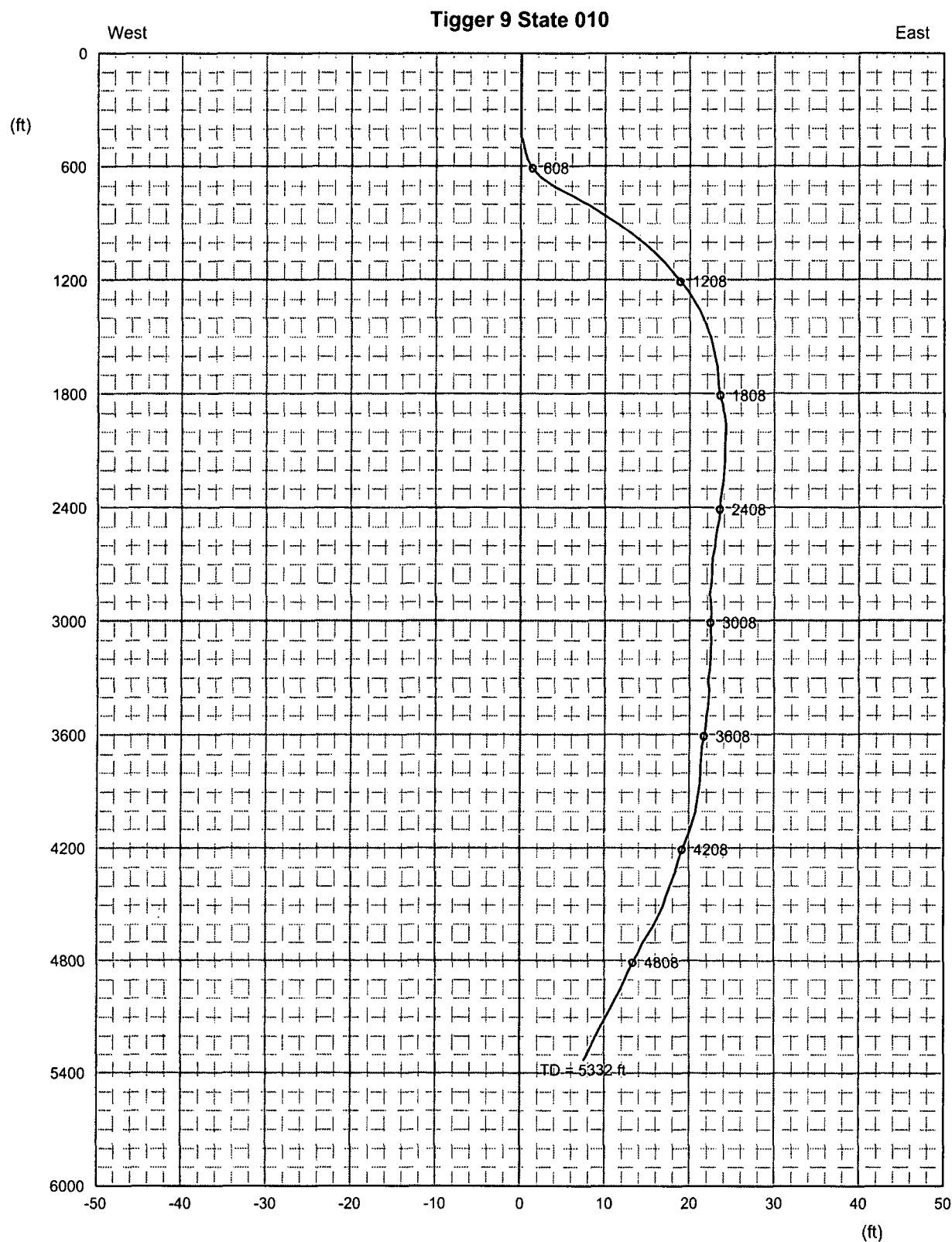
Projection on Vertical Plane

Vertical scale 1 in : 750 , Horizontal scale 1 in : 16 ft



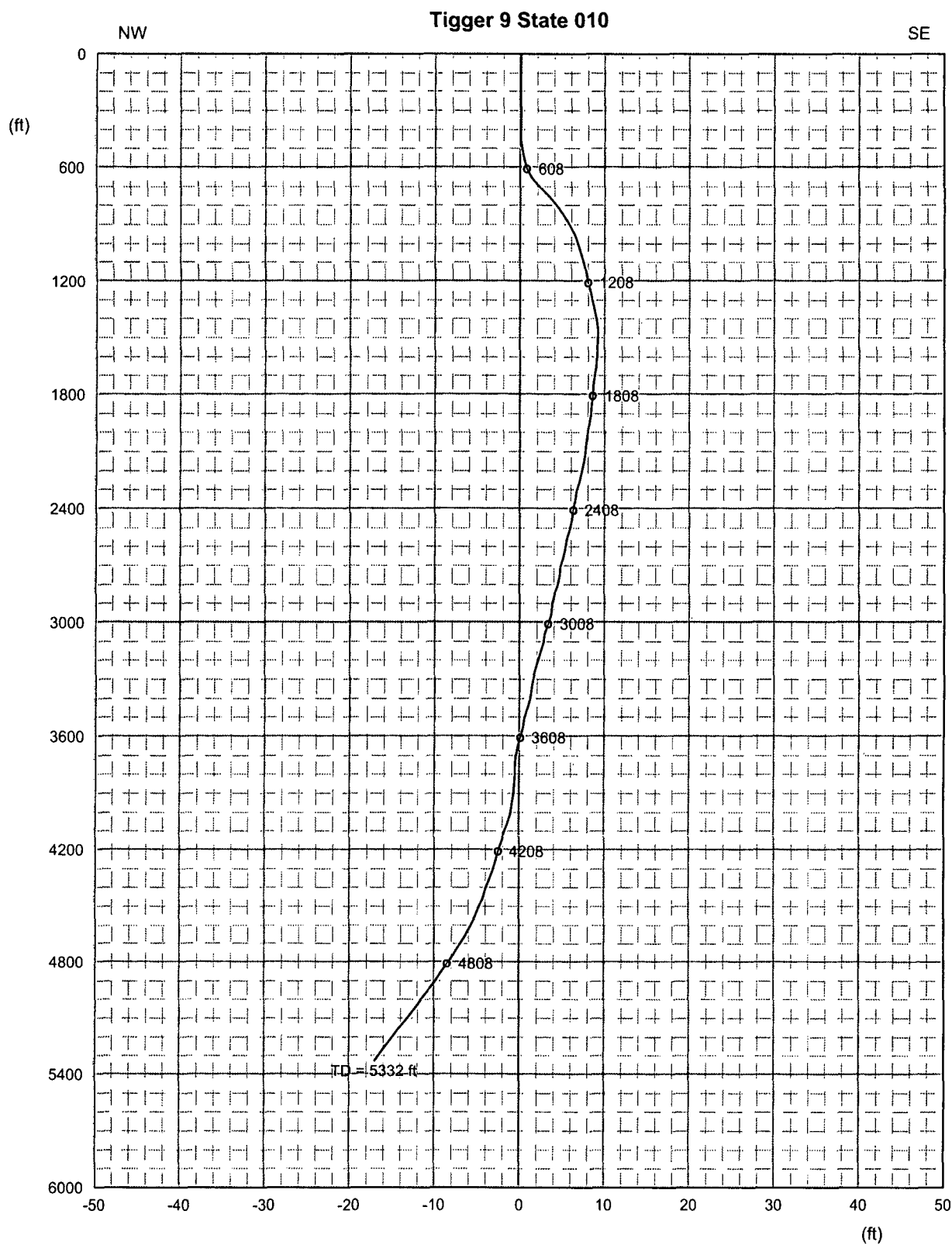
Projection on Vertical Plane

Vertical scale 1 in : 750 , Horizontal scale 1 in : 16 ft



Projection on Vertical Plane

Vertical scale 1 in : 750 , Horizontal scale 1 in : 16 ft



Projection on Vertical Plane

Vertical scale 1 in : 750 , Horizontal scale 1 in : 16 ft

MD (ft)	TVD (ft)	DEVI (deg)	AZIM (deg)	DX (ft)	DY (ft)
0.00	0.00	0.00	0.00	0.00	0.00
447.00	447.00	0.00	0.00	0.00	0.00
458.00	458.00	0.61	59.93	0.05	0.03
508.00	508.00	0.17	100.49	0.35	0.15
558.00	558.00	0.60	86.87	0.68	0.15
608.00	607.99	0.80	77.77	1.28	0.24
658.00	657.98	1.38	82.35	2.22	0.39
708.00	707.95	2.75	76.71	3.99	0.75
758.00	757.90	2.32	73.24	6.13	1.31
808.00	807.86	2.32	71.55	8.06	1.93
858.00	857.82	2.19	70.16	9.92	2.57
908.00	907.79	1.93	62.73	11.57	3.28
958.00	957.76	2.06	62.47	13.11	4.08
1008.00	1007.73	1.75	59.77	14.57	4.88
1058.00	1057.71	1.56	56.72	15.80	5.64
1108.00	1107.69	1.41	60.09	16.90	6.32
1158.00	1157.68	1.33	54.17	17.90	6.97
1208.00	1207.67	1.17	59.63	18.81	7.57
1258.00	1257.66	1.06	63.19	19.67	8.03
1308.00	1307.65	0.90	65.11	20.43	8.41
1358.00	1357.65	0.68	70.25	21.07	8.67
1408.00	1407.64	0.58	65.68	21.58	8.87
1458.00	1457.64	0.58	59.54	22.03	9.11
1508.00	1507.64	0.72	36.69	22.43	9.49
1558.00	1557.64	0.15	41.37	22.67	9.79
1608.00	1607.63	0.88	28.19	22.89	10.18
1658.00	1657.63	0.33	46.40	23.18	10.62
1708.00	1707.63	0.36	347.02	23.25	10.87
1758.00	1757.63	0.32	41.27	23.30	11.13
1808.00	1807.63	0.59	32.36	23.53	11.45
1858.00	1857.62	0.55	31.83	23.80	11.87
1908.00	1907.62	0.51	27.37	24.03	12.28
1958.00	1957.62	0.25	2.61	24.13	12.58
2008.00	2007.62	0.51	359.83	24.14	12.92
2058.00	2057.62	0.07	331.25	24.12	13.17
2108.00	2107.62	0.14	358.44	24.11	13.25
2158.00	2157.62	0.43	350.27	24.07	13.50
2208.00	2207.62	0.10	347.36	24.03	13.73
2258.00	2257.62	0.66	337.17	23.91	14.04
2308.00	2307.62	0.17	328.73	23.76	14.37
2358.00	2357.62	0.24	278.44	23.61	14.45
2408.00	2407.61	0.29	339.68	23.47	14.59
2458.00	2457.61	0.12	306.09	23.38	14.74
2508.00	2507.61	0.57	319.94	23.18	14.96
2558.00	2557.61	0.17	328.47	22.98	15.21
2608.00	2607.61	0.15	277.86	22.88	15.28
2658.00	2657.61	0.52	326.21	22.69	15.48
2708.00	2707.61	0.37	4.75	22.58	15.83
2758.00	2757.61	0.20	18.02	22.62	16.07
2808.00	2807.61	0.48	321.35	22.51	16.32
2858.00	2857.61	0.54	357.71	22.37	16.72
2908.00	2907.60	0.39	23.15	22.43	17.11
2958.00	2957.60	0.11	6.37	22.50	17.31
3008.00	3007.60	0.80	347.40	22.43	17.70
3058.00	3057.60	0.64	17.81	22.44	18.31
3108.00	3107.60	0.12	338.23	22.50	18.62
MD (ft)	TVD (ft)	DEVI (deg)	AZIM (deg)	DX (ft)	DY (ft)

MD (ft)	TVD (ft)	DEVI (deg)	AZIM (deg)	DX (ft)	DY (ft)
3158.00	3157.60	0.77	354.61	22.45	19.00
3208.00	3207.59	0.31	6.52	22.44	19.47
3258.00	3257.59	0.57	327.00	22.32	19.81
3308.00	3307.59	0.21	13.64	22.21	20.11
3358.00	3357.59	0.39	355.34	22.21	20.37
3408.00	3407.59	0.14	354.52	22.19	20.60
3458.00	3457.59	0.58	327.27	22.05	20.88
3508.00	3507.59	0.20	355.61	21.91	21.18
3558.00	3557.59	0.31	347.93	21.87	21.39
3608.00	3607.59	0.47	291.91	21.65	21.60
3658.00	3657.58	0.17	342.35	21.44	21.75
3708.00	3707.58	0.40	320.24	21.31	21.96
3758.00	3757.58	0.04	69.49	21.21	22.10
3808.00	3807.58	0.01	53.12	21.23	22.10
3858.00	3857.58	0.15	301.39	21.18	22.14
3908.00	3907.58	0.36	244.24	20.99	22.11
3958.00	3957.58	0.15	323.33	20.81	22.09
4008.00	4007.58	0.31	295.43	20.65	22.20
4058.00	4057.58	0.47	298.45	20.34	22.36
4108.00	4107.58	0.47	287.51	19.96	22.52
4158.00	4157.58	0.49	287.51	19.56	22.64
4208.00	4207.58	0.46	286.22	19.17	22.76
4258.00	4257.57	0.43	277.27	18.79	22.84
4308.00	4307.57	0.45	277.71	18.41	22.89
4358.00	4357.57	0.55	288.55	17.99	23.00
4408.00	4407.57	0.49	296.35	17.57	23.17
4458.00	4457.57	0.47	298.21	17.19	23.36
4508.00	4507.56	0.58	299.02	16.79	23.58
4558.00	4557.56	0.60	291.46	16.33	23.80
4608.00	4607.56	0.75	286.60	15.77	23.99
4658.00	4657.55	0.87	287.95	15.09	24.20
4708.00	4707.55	0.75	299.78	14.45	24.48
4758.00	4757.54	0.81	309.62	13.89	24.87
4808.00	4807.54	0.88	313.49	13.34	25.35
4858.00	4857.53	0.91	313.21	12.78	25.89
4908.00	4907.53	0.82	316.62	12.24	26.42
4958.00	4957.52	0.94	317.31	11.72	26.98
5008.00	5007.52	0.98	315.48	11.14	27.59
5058.00	5057.51	0.94	318.25	10.57	28.20
5108.00	5107.50	1.03	319.17	10.00	28.85
5158.00	5157.49	1.07	317.47	9.39	29.53
5208.00	5207.49	0.91	320.27	8.82	30.18
5258.00	5257.48	0.89	317.61	8.31	30.77
5308.00	5307.47	0.93	308.98	7.73	31.31
5332.00	5331.47	0.93	308.98	7.42	31.56
MD (ft)	TVD (ft)	DEVI (deg)	AZIM (deg)	DX (ft)	DY (ft)

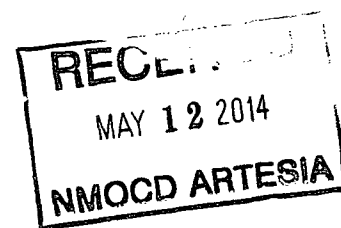
COMPANY:	OXY USA WTP LIMITED PARTNERSHIP				
WELL:	Tigger 9 State 010				
FIELD:	Empire; Glorieta-Yeso, East				
STATE:	New Mexico				
COUNTRY:	USA				
Date Logged:	30-Apr-2014	Date Processed: 08-May-2014			
Well Location:	940' FSL & 1726' FEL				
Elevations:	KB: 3582.7 ft	DF: 3581.7 ft	GL: 3568.7 ft		
API Number:	30-015-40941 Job Number: DSP-2014-1508				

Division I
1621 N. Fitch Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
617 S. First St., Artesia, NM 88210
Phone: (575) 748-1253 Fax: (575) 748-9720
District III
1303 San Francis Road, Alamogordo, NM 88310
Phone: (505) 334-4178 Fax: (505) 334-4170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3450 Fax: (505) 476-3452

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT



WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
	96610	Empire, Glorieta-Paso, East
Property Code	Property Name	Well Number
309604	TIGGER "9" STATE	10
GRID No.	Operator Name	Elevation
192463	OXY USA WTP LP	3568.7'

Surface Location

UL or lot no.	Section	Township	Range	Lot Ids	Feet from the	North/South line	Feet from the	East/West line	County
0	9	17 SOUTH	29 EAST, N.M.P.M.		940'	SOUTH	1726'	EAST	EDDY

Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Ids	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres	Joint or Infill	Consolidation Code	Order No.						
40									

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

SURFACE LOCATION NEW MEXICO EAST NAD 1927 Y=67070.1 X=576917.4 LAT.: N 32.8+43181 LONG.: W 104.0763509	OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or an undivided interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a lease with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered into. <i>Jennifer Dunde</i> Date: 1-3-13 Printed Name: Jennifer Dunde Email Address: jennifer.dunde@oxy.com
	SURVEYOR CERTIFICATION I hereby certify that I am a duly licensed surveyor and that this plat was prepared by me or under my supervision and that the same is true and correct to the best of my belief. <i>Jerry J. Paul</i> Date of Survey: 8/24/11 Signature and Seal of Professional Surveyor Professional Surveyor 15079 Certificate Number: 15079 WD# 170810WL-e (NA)