



PHOENIX
TECHNOLOGY SERVICES

September 15, 2015

Oil Conservation Division
State of New Mexico
811 S. First St.
Artesia, New Mexico 88210

NM OIL CONSERVATION
ARTESIA DISTRICT

SEP 28 2015

Dear District 2 - Artesia

RECEIVED

Re: Matador Resources
Scott Walker 36-22S-27E RB 204H – WB#1
Eddy County, New Mexico
API #30-015-43162
Job No. 1513824

Enclosed please find the Survey Data Certification, and the original Plat and one copy of the Survey Report performed on the above referenced Well by Phoenix Technology Services, Inc. (P-5 No. 664171). Other information required by your office is as follows:

Name & Title of Surveyor	Drain Hole Number	Surveyed Depths		Dates Performed		Type of Survey
		From	To	Start	End	
Seth Mollerup	204H	581	10,241	06/30/15	07/08/15	MWD

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 and phone number.

Best Regards,
Claudia Carreon

Claudia Carreon
Operations Administrator

Certified mail receipt number: 7015 0640 0000 9907 5098

Phoenix Technology Services
SURVEY DATA CERTIFICATION



PHOENIX JOB NUMBER

1513824

ENERGY COMPANY

Matador Resources

WELL NAME

Scott Walker 36-22S-27E RB 204H - WB1

COUNTY & STATE

Eddy County, New Mexico

API WELL NUMBER

30-015-43162

PROPOSED DIRECTION

89.31°

TIE-IN DATA						
MEASURED	VERTICAL			N-S	E-W	DATA
DEPTH	DEPTH	INCLIN	AZIMUTH	COORD	COORD	SOURCE
504.00 ft	503.93 ft	1.87°	184.57°	-6.42 ft	.55 ft	Gyro

FIRST	FIRST		
SURVEY	SURVEY		
DATE	DEPTH	INCLIN	AZIMUTH
30-Jun-15	581.00 ft	2.10°	187.00°

LAST	LAST		
SURVEY	SURVEY		
DATE	DEPTH	INCLIN	AZIMUTH
8-Jul-15	10,241.00 ft	1.5°	181.0°

PROJECTED	PROJECTED		
TD SURVEY	TD SURVEY		
DATE	DEPTH	INCLIN	AZIMUTH
8-Jul-15	10,300.00 ft	1.5°	181.0°

MAGNETIC DECLINATION OR TOTAL GRID

TOTAL CORRECTION USED	7.47
DECLINATION OR GRID	GRID

MWD SUPERVISOR 1

Shane King

DIRECTIONAL DRILLER 1

Van Johnson

MWD SUPERVISOR 2

Seth Mollerup

DIRECTIONAL DRILLER 2

Dustin Barnett

SURVEY INSTRUMENT

TYPE

Phoenix MWD

TO THE BEST OF MY KNOWLEDGE I
CERTIFY THIS SURVEY DATA TO BE
TRUE AND CORRECT.

Seth Mollerup

PRINT YOUR NAME ABOVE

Seth Mollerup

SIGN YOUR NAME ABOVE

8-Jul-15

TODAY'S DATE

12329 Cutten Rd.,

Houston, Texas 77066

(713)337-0600 (Voice), (713)337-0599 (Fax)



NM OIL CONSERVATION
ARTESIA DISTRICT

SEP 28 2015

RECEIVED

Matador Resources

**Eddy County, NM (NAD27 NME)
Scott Walker 36-22S-27E RB
204H**

Pilot Hole / Job 1513824

Design: Surveys (Patterson 297)

Standard Survey Report

15 September, 2015





Phoenix Technology Services LP

Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well 204H
Project:	Eddy County, NM (NAD27 NME)	TVD Reference:	RKB @ 3103.50usft (Patterson 297)
Site:	Scott Walker 36-22S-27E RB	MD Reference:	RKB @ 3103.50usft (Patterson 297)
Well:	204H	North Reference:	Grid
Wellbore:	Pilot Hole / Job 1513824	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Patterson 297)	Database:	Compass 5000 GCR

Project	Eddy County, NM (NAD27 NME)		
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		Scott Walker 36-22S-27E RB			
Site Position:		Northing:	488,337.00 usft	Latitude:	32° 20' 32.71294 N
From:	Map	Easting:	556,768.00 usft	Longitude:	104° 8' 58.27695 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.10 °

Well	204H					
Well Position	+N/-S	0.00 usft	Northing:	488,337.00 usft	Latitude:	32° 20' 32.71294 N
	+E/-W	0.00 usft	Easting:	556,768.00 usft	Longitude:	104° 8' 58.27695 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level:	3,076.00 usft

Wellbore	Pilot Hole / Job 1513824				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	HDGM	6/22/2015	7.57	60.18	48,336

Design	Surveys (Patterson 297)				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction	
	(usft)	(usft)	(usft)	(°)	
	0.00	0.00	0.00	175.12	

Survey Program	Date 7/28/2015			
From	To	Survey (Wellbore)	Tool Name	Description
(usft)	(usft)			
100.00	504.00	SDI Gryo Survey (Pilot Hole / Job 1513824	Scientific Gyro	Scientific Drilling Intl. Standard Wireline Keeper
581.00	10,300.00	Phoenix MWD Surveys (Pilot Hole / Job 15	PHX+MWD+HDGM	PHX+MWD+HDGM

Survey										
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Vertical	Dogleg	Build	Turn	
Depth	(°)	(°)	Depth	(usft)	(usft)	Section	Rate	Rate	Rate	
(usft)			(usft)			(usft)	(°/100usft)	(°/100usft)	(°/100usft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
100.00	0.45	147.68	100.00	-0.33	0.21	0.35	0.45	0.45	0.00	
165.00	0.44	146.66	165.00	-0.76	0.48	0.79	0.02	-0.02	-1.57	
258.00	0.35	123.06	257.99	-1.21	0.92	1.28	0.20	-0.10	-25.38	
350.00	1.15	179.88	349.99	-2.29	1.16	2.38	1.09	0.87	61.76	
443.00	1.69	193.50	442.96	-4.55	0.84	4.61	0.68	0.58	14.65	
504.00	1.87	184.57	503.93	-6.42	0.55	6.44	0.54	0.30	-14.64	
581.00	2.10	187.00	580.88	-9.07	0.28	9.06	0.32	0.30	3.16	
First Phoenix Survey										
689.00	1.40	205.80	688.83	-12.22	-0.54	12.13	0.83	-0.65	17.41	



Phoenix Technology Services LP
Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well 204H
Project:	Eddy County, NM (NAD27 NME)	TVD Reference:	RKB @ 3103.50usft (Patterson 297)
Site:	Scott Walker 36-22S-27E RB	MD Reference:	RKB @ 3103.50usft (Patterson 297)
Well:	204H	North Reference:	Grid
Wellbore:	Pilot Hole / Job 1513824	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Patterson 297)	Database:	Compass 5000 GCR

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)
783.00	2.10	296.50	782.80	-12.49	-2.58	12.22	2.70	0.74	96.49
877.00	4.90	323.80	876.82	-8.49	-8.51	7.90	3.38	2.98	28.83
970.00	6.20	332.50	969.19	-0.84	-11.18	-0.12	1.67	1.40	9.57
1,064.00	7.00	337.70	1,062.56	8.97	-15.70	-10.27	1.08	0.85	5.53
1,158.00	7.60	341.20	1,155.80	20.15	-19.88	-21.77	0.79	0.84	3.72
1,251.00	8.40	345.50	1,247.90	32.55	-23.56	-34.43	1.07	0.86	4.62
1,345.00	8.30	351.80	1,340.90	45.91	-26.27	-47.98	0.95	-0.11	6.49
1,439.00	7.30	353.20	1,434.03	58.55	-27.97	-60.72	1.09	-1.06	1.70
1,533.00	7.00	349.50	1,527.30	70.11	-29.72	-72.39	0.58	-0.32	-3.94
1,626.00	6.60	337.10	1,619.85	80.61	-32.83	-83.11	1.63	-0.43	-13.33
1,720.00	5.70	336.80	1,713.11	89.88	-36.77	-92.68	0.96	-0.96	-0.32
1,814.00	5.00	328.50	1,806.70	97.66	-40.75	-100.77	1.11	-0.74	-8.83
1,907.00	5.20	315.60	1,899.34	104.13	-45.82	-107.64	1.25	0.22	-13.87
2,001.00	5.00	313.10	1,992.96	109.97	-51.79	-113.97	0.32	-0.21	-2.66
2,095.00	5.80	292.60	2,086.55	114.59	-59.17	-119.21	2.21	0.85	-21.81
2,188.00	6.90	283.50	2,178.99	117.70	-68.94	-123.14	1.60	1.18	-9.78
2,282.00	6.30	284.60	2,272.36	120.32	-79.42	-126.64	0.65	-0.64	1.17
2,336.00	5.40	282.10	2,326.08	121.60	-84.77	-128.37	1.73	-1.67	-4.63
2,459.00	4.50	278.90	2,448.62	123.56	-95.20	-131.21	0.77	-0.73	-2.60
2,646.00	2.10	267.80	2,635.30	124.56	-105.87	-133.12	1.32	-1.28	-5.94
2,833.00	1.80	280.80	2,822.19	124.98	-112.18	-134.07	0.28	-0.16	6.95
3,020.00	1.90	280.80	3,009.09	126.11	-118.11	-135.70	0.05	0.05	0.00
3,207.00	2.20	280.00	3,195.97	127.32	-124.69	-137.46	0.16	0.16	-0.43
3,395.00	2.30	279.30	3,383.83	128.55	-131.96	-139.31	0.06	0.05	-0.37
3,582.00	2.10	282.90	3,570.69	129.93	-139.01	-141.28	0.13	-0.11	1.93
3,769.00	1.80	291.20	3,757.58	131.75	-145.08	-143.61	0.22	-0.16	4.44
3,957.00	1.80	290.20	3,945.50	133.73	-150.30	-146.02	0.11	-0.11	-0.53
4,144.00	1.50	292.20	4,132.43	135.55	-155.02	-148.24	0.06	-0.05	1.07
4,331.00	1.00	301.40	4,319.39	137.33	-158.68	-150.32	0.29	-0.27	4.92
4,519.00	1.00	308.00	4,507.36	139.19	-161.37	-152.41	0.06	0.00	3.51
4,706.00	1.00	312.70	4,694.33	141.30	-163.85	-154.73	0.04	0.00	2.51
4,893.00	0.90	306.00	4,881.30	143.27	-166.24	-156.89	0.08	-0.05	-3.58
5,080.00	1.00	302.90	5,068.28	145.02	-168.80	-158.85	0.06	0.05	-1.66
5,268.00	0.80	277.40	5,256.26	146.08	-171.48	-160.14	0.24	-0.11	-13.56
5,455.00	0.70	243.70	5,443.24	145.75	-173.80	-160.00	0.24	-0.05	-18.02
5,643.00	0.50	193.20	5,631.23	144.44	-175.01	-158.80	0.29	-0.11	-26.86
5,830.00	1.60	239.60	5,818.20	142.32	-177.45	-156.90	0.70	0.59	24.81
6,017.00	0.40	141.20	6,005.17	140.49	-179.30	-155.23	0.91	-0.64	-52.62
6,205.00	2.30	95.40	6,193.12	139.63	-175.13	-154.01	1.09	1.01	-24.36
6,392.00	3.00	159.80	6,379.95	134.68	-169.70	-148.62	1.54	0.37	34.44
6,573.00	4.30	157.90	6,560.58	123.95	-165.51	-137.57	0.72	0.72	-1.05
6,761.00	5.60	188.40	6,747.91	108.34	-164.20	-121.91	1.54	0.69	16.22
6,948.00	4.40	188.90	6,934.19	92.23	-166.64	-106.06	0.64	-0.64	0.27



Phoenix Technology Services LP
Survey Report



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Site:	Scott Walker 36-22S-27E RB	MD Reference:	RKB @ 3103.50usft (Patterson 297)
Well:	204H	North Reference:	Grid
Wellbore:	Pilot Hole / Job 1513824	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Patterson 297)	Database:	Compass 5000 GCR

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)
7,135.00	3.40	247.10	7,120.82	82.98	-172.86	-97.38	2.08	-0.53	31.12
7,322.00	1.30	261.30	7,307.66	80.50	-180.07	-95.52	1.16	-1.12	7.59
7,510.00	1.20	236.90	7,495.61	79.10	-183.83	-94.45	0.29	-0.05	-12.98
7,697.00	1.40	244.80	7,682.57	77.06	-187.53	-92.73	0.14	0.11	4.22
7,885.00	0.70	317.10	7,870.54	76.92	-190.39	-92.83	0.72	-0.37	38.46
8,072.00	2.70	107.80	8,057.48	76.41	-186.98	-92.04	1.78	1.07	80.59
8,259.00	3.90	166.80	8,244.22	68.87	-181.33	-84.04	1.82	0.64	31.55
8,446.00	5.30	234.80	8,430.73	57.69	-186.94	-73.38	2.82	0.75	36.36
8,634.00	1.50	214.20	8,618.37	50.65	-195.42	-67.09	2.09	-2.02	-10.96
8,821.00	2.40	186.80	8,805.27	44.74	-197.26	-61.35	0.68	0.48	-14.65
9,009.00	2.20	196.90	8,993.11	37.38	-198.77	-54.15	0.24	-0.11	5.37
9,196.00	1.90	195.60	9,179.99	30.96	-200.65	-47.91	0.16	-0.16	-0.70
9,383.00	2.20	181.20	9,366.88	24.38	-201.56	-41.44	0.32	0.16	-7.70
9,571.00	1.90	198.80	9,554.76	17.83	-202.64	-34.89	0.37	-0.16	9.36
9,758.00	1.60	169.40	9,741.67	12.32	-203.16	-29.56	0.50	-0.16	-15.72
9,946.00	1.60	167.10	9,929.60	7.19	-202.09	-24.35	0.03	0.00	-1.22
10,040.00	1.20	167.80	10,023.57	4.94	-201.59	-22.07	0.43	-0.43	0.74
10,133.00	1.50	177.70	10,116.55	2.78	-201.34	-19.89	0.41	0.32	10.65
10,241.00	1.50	181.00	10,224.51	-0.05	-201.30	-17.07	0.08	0.00	3.06
Final Pilot Hole Survey									
10,300.00	1.50	181.00	10,283.49	-1.59	-201.33	-15.53	0.00	0.00	0.00
Pilot Projection to TD									

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
581.00	580.88	-9.07	0.28	First Phoenix Survey
10,241.00	10,224.51	-0.05	-201.30	Final Pilot Hole Survey
10,300.00	10,283.49	-1.59	-201.33	Pilot Projection to TD

Checked By: _____ Approved By: _____ Date: _____

NM OIL CONSERVATION
ARTESIA DISTRICT

SEP 28 2015

FORM C-102

Revised August 1, 2011

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

RECEIVED Submit one copy to appropriate
District Office

☐ AMENDED REPORT

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Blvd, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Sante Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-43162	² Pool Code 74270	³ Pool Name CASS DRAW: WC (Gas)
⁴ Property Code 314893	⁵ Property Name SCOTT WALKER 36-22S-27E RB	⁶ Well Number #204H
⁷ GRID No. 228937	⁸ Operator Name MATADOR PRODUCTION COMPANY	⁹ Elevation 3076'

¹⁰Surface Location

III. or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	36	22-S	27-E	-	330'	SOUTH	635'	WEST	EDDY

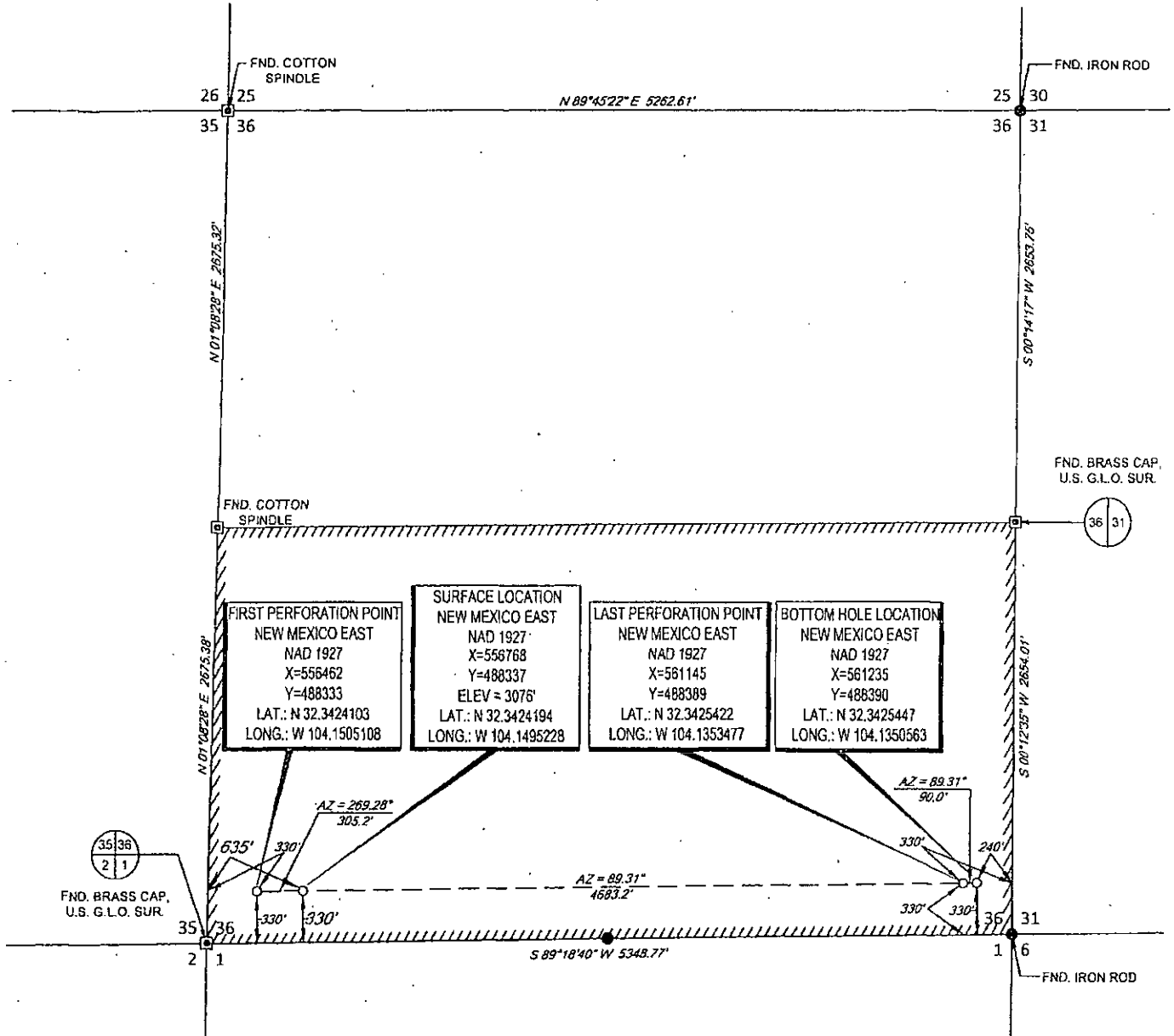
VI. or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	36	22-S	27-E	-	330'	SOUTH	240'	EAST	EDDY

¹¹ Dedicated Acres	¹² Joint or Infill	¹³ Consolidation Code	¹⁴ Order No.

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.

¹⁶				¹⁷OPERATOR 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 undivided mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. <i>Chris Carleton</i> 6/1/15 Signature Date Chris Carleton Printed Name ccarleton@matadorresources.com E-mail Address	
				¹⁸SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true to the best of my belief. 05/28/2015 Date of Survey <i>Michael R. Brown</i> Signature and Seal of Professional Surveyor 18329 Professional Surveyor Certificate Number	

SECTION 36, TOWNSHIP 22-S, RANGE 27-E, N.M.P.M.
EDDY COUNTY, NEW MEXICO



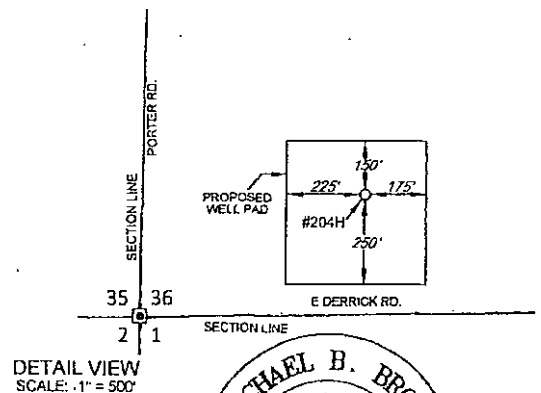
SCALE: 1" = 1000'
0 500 1000

LEASE NAME & WELL NO.: SCOTT WALKER 36-22S-27E RB #204H

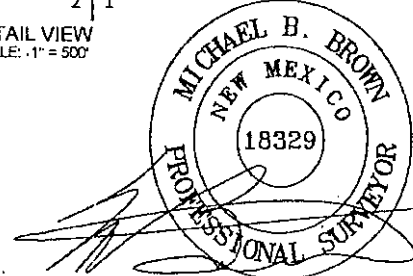
SECTION 36 TWP 22-S RGE 27-E SURVEY N.M.P.M.
COUNTY EDDY STATE NM
DESCRIPTION 330' FSL & 635' FWL

DISTANCE & DIRECTION

FROM INT. OF NM-31 & US-285 N. GO NORTHWEST ON US-285 N
±2.5 MILES, THENCE NORTH ON PORTER RD ±0.4 MILES TO A
POINT ±650 FEET WEST OF THIS LOCATION.



DETAIL VIEW
SCALE: 1" = 500'



Michael Blake Brown, P.S. No. 18329
MAY 29, 2015