

3-1-11 DATE IN	SUSPENSE	ENGINEER <i>DKB</i>	LOGGED IN 3.3.11	TYPE <i>NSL</i>	PTGW APP NO. 1106228556
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ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
 - Engineering Bureau -
 1220 South St. Francis Drive, Santa Fe, NM 87505



Marshall & Winston
Laguna Deep 2 Fed
#14

ADMINISTRATIVE APPLICATION CHECKLIST 30-025-~~27597~~

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

-39946

Application Acronyms:

[NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]
 [DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
 [PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
 [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
 [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
 [EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

[1] **TYPE OF APPLICATION** - Check Those Which Apply for [A]

[A] Location - Spacing Unit - Simultaneous Dedication
☒ NSL ☐ NSP ☐ SD

Check One Only for [B] or [C]

[B] Commingling - Storage - Measurement
☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM

[C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
☐ WFX ☐ PMX ☐ SWD ☐ IPI ☐ EOR ☐ PPR

[D] Other: Specify A section of the horizontal traveled inside the 330.

[2] **NOTIFICATION REQUIRED TO:** - Check Those Which Apply, or Does Not Apply

[A] ☐ Working, Royalty or Overriding Royalty Interest Owners
 [B] ☐ Offset Operators, Leaseholders or Surface Owner
 [C] ☐ Application is One Which Requires Published Legal Notice
 [D] ☐ Notification and/or Concurrent Approval by BLM or SLO
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
 [E] ☐ For all of the above, Proof of Notification or Publication is Attached, and/or,
 [F] ☐ Waivers are Attached

[3] **SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.**

[4] **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Vernon D. Dyer
 Print or Type Name

Vernon Dyer
 Signature

Agent: Marshall/Winston 2-23-2011
 Title Date

vdveroil@cableone.net
 e-mail Address

RECEIVED

State of New Mexico

DISTRICT I

1625 N. FRENCH DR., HOBBS, NM 88240

Energy, Minerals and Natural Resources Department

SEP 30 2010

Form C-102

DISTRICT II

1301 W. GRAND AVENUE, ARTESIA, NM 88210

OIL CONSERVATION DIVISION
HOBBS

Revised October 12, 2005

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

1220 SOUTH ST. FRANCIS DR.
Santa Fe, New Mexico 87505

DISTRICT IV

1220 S. ST. FRANCIS DR., SANTA FE, NM 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-025-39946	Pool Code 58960	Pool Name Teas Bone Spring
Property Code 38335	Property Name LAGUNA DEEP UNIT FEDERAL 35	Well Number 1H
GRID No. 14187	Operator Name MARSHALL & WINSTON, INC.	Elevation 3597'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	35	19-S	33-E		2310	SOUTH	330	EAST	LEA

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	35	19-S	33-E		2310	SOUTH	330	WEST	LEA

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
160			

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

GEODETIC COORDINATES NAD 27 NME SURFACE LOCATION Y=588407.4 N X=717823.5 E LAT.=32.615643° N LONG.=103.625905° W BOTTOM HOLE LOCATION Y=588384.4 N X=713203.0 E GRID AZ. = 269°42'51" HORZ. DIST. = 4621.6' SEE DETAIL	DETAIL 3597.6' 3596.2' 600' 600' 3595.9' 3596.7'	OPERATOR CERTIFICATION I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased 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 mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. <i>Vernon D. Dyce</i> 6/14/2010 Signature Date VERNON D. DYCE Printed Name
SURVEYOR 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 and correct to the best of my belief. JANUARY 11 2010 Date Surveyed: 1/15/10 LA Signature & Seal of Professional Surveyor <i>Ronald J. Eidson</i> 01/15/2010 10011-0052 Certificate No. GARY EIDSON 12641 RONALD J. EIDSON 3239		

Vernon D. Dyer CPL# 3174
POBox 1692
Roswell, NM 88202-1692
575-622-4941----Office
575-420-0355---Cell
575-627-8208---Fax

.....
D OIL & GAS PROPERTIES

February 21, 2011

RE: Marshall & Winston, Inc.
Laguna Deep Unit Federal 35 #1H
Lea County, New Mexico

David Brooks
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

Dear Mr. Brooks:

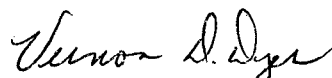
As per you telephone conversation with Gary Gorley concerning the non standard location (NSL) on the above caption well which was caused by the bit drifted north 72 feet which located the lateral in the Bone Spring Formation 257.51 feet from the north line. The spacing unit requirements dictate 330 feet lease line distances for a standard location.

Marshall & Winston, Inc, now comes forward for an administrative approval for the Non-Standard Location and for this administrative approval, we submit the following:

1. A letter from Cimarex Energy Company (the offset Operator) consenting to the exception for the production from this unorthodox location.
2. A well profile from Baker Hughes indicating the drilling profile of the lateral string of the drilling in this well as it relates to the east lease line and the north lease line.
3. A well profile data sheet also indicating the drilling profile of the lateral line from Baker & Hughes.
4. An Actual Wellpath Report from Baker & Hughes.

I have requested a C-102 from John West Surveying Services of Hobbs, New Mexico and it will in the package of the items listed above sent to you by FedEx as soon as I receive it. I am emailing this to you so you can review and advise of any additional information you may need for the administrative approval.

Yours very truly,


Vernon D. Dyer, CPL

..... Agent for Marshall & Winston, Inc.

TAKE WHAT YOU DO SERIOUSLY,
BUT TAKE YOURSELF LIGHTLY.

RECEIVED OGD
2011 MAR - 1



January 31, 2011

Cimarex Energy Company
600 N. Marienfeld St.
Suite 600
Midland, TX 79701

Attn: Mark Compton

RE: Marshall & Winston, Inc.
Laguna Deep Unit Federal 35 #1H
Sec. 35, T19S, R33E
Lea County, NM

Mr. Compton:

Please note on the attached final survey plot for the captioned well the lateral drifted north 72 feet which located the lateral in the Bone Spring Formation 257.51 feet from the north lease line. Spacing requirements dictate 330 feet lease line distances for an orthodox location.

Marshall & Winston, Inc. respectfully requests approval from Cimarex Energy Company, as the effected offset operator, an exception for production from an unorthodox location. The approval of this exception will allow for regulatory administrative approval on this matter.

Should this request be acceptable, please so indicate by signing the attached waiver and returning to the letterhead address at your earliest convenience.

Your attention to this request is greatly appreciated and please direct comments or questions to the undersigned. Thank you in advance for your cooperation.

Very truly yours,

A handwritten signature in black ink that reads 'Tom M. Brandt'. The signature is written in a cursive style with a large, stylized 'T' and 'B'.

Tom M. Brandt
President

TMB/sr

Enclosure

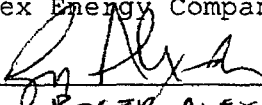
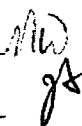
Waiver

RE: Marshall & Winston, Inc.
Laguna Deep Unit Federal 35 #1H
Sec. 35, T19S, R33E
Lea County, NM
API No. 30-025-39946

RECEIVED OGD
2011 MAR - 1 A 11:15

Cimarex Energy Company, as the north offset operator to the captioned well, hereby waives its objection to production from an unorthodox location in the Bone Spring Formation. This exception is granted solely for the captioned wellbore in the First Bone Spring Formation at a TVD of approximately 9426 feet.

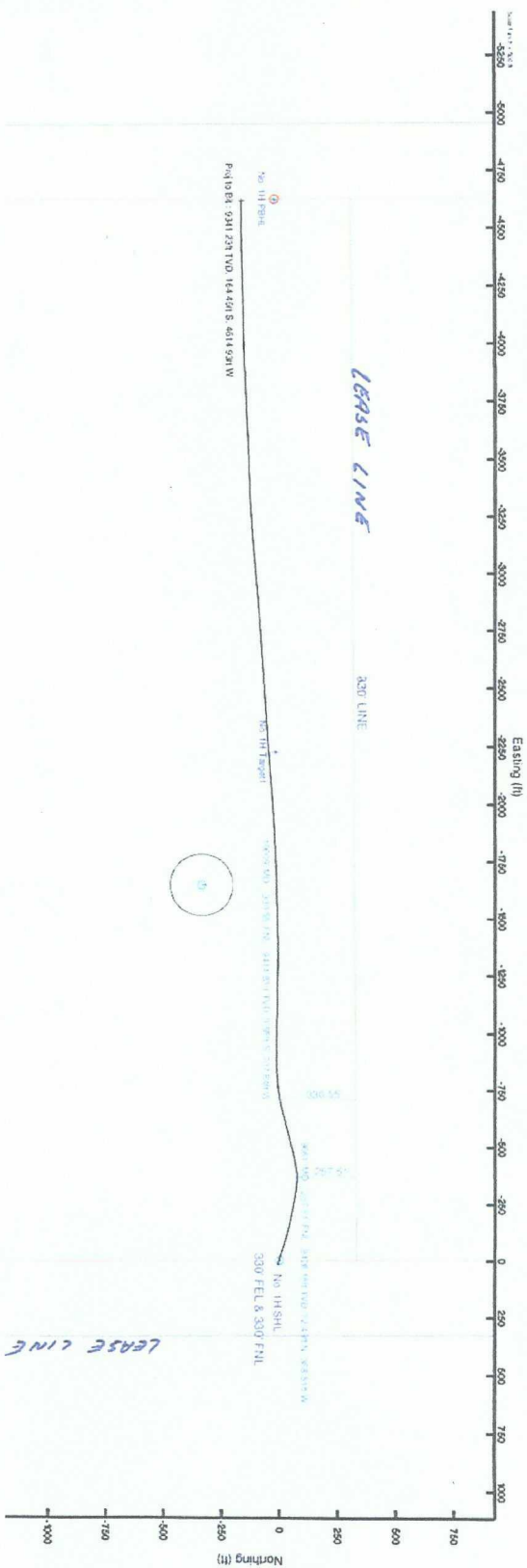
Cimarex Energy Company

By:  

Title: ROGER ALEXANDER
ATTORNEY-IN-FACT

Date: FEBRUARY 16, 2011

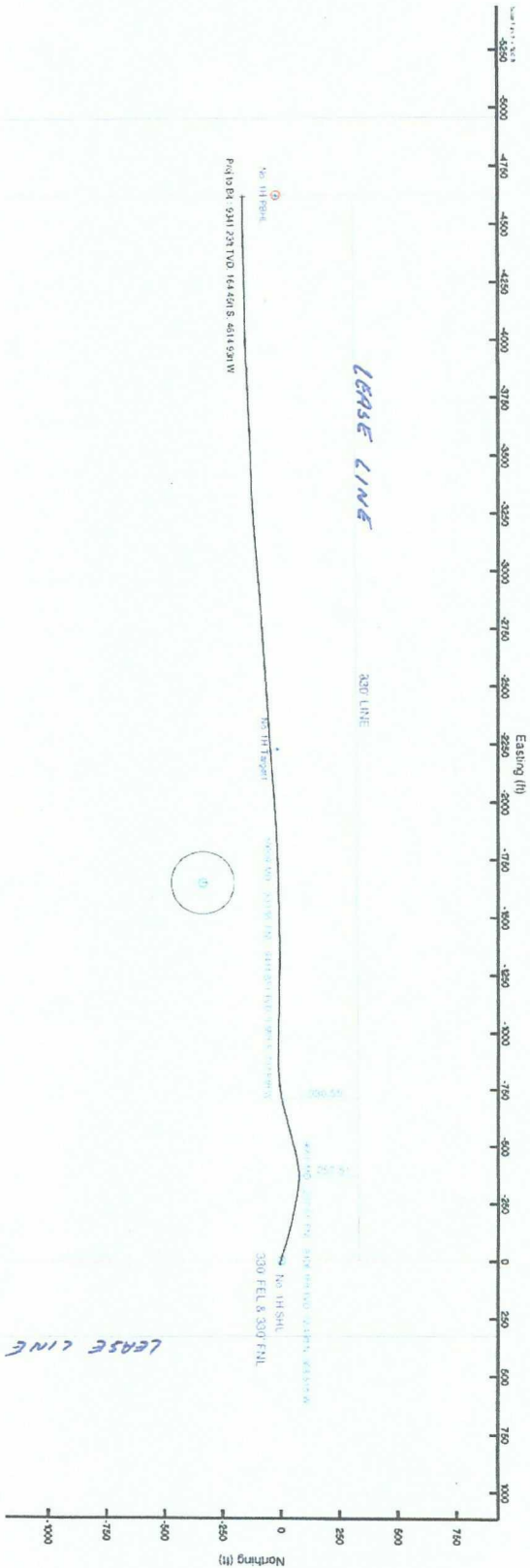
For reference, we show a list of HMPs	
Two viral sequences are referenced to Refseq as: H1-SL1 (H1)	GenSyrGen_HAD27_T1.H1.SL1.S19.Fluores_Eastern_Zoon_19001_US.fna
Meas and Depox are referenced to Refseq as: H1-SL1 (H1)	From Reference: GenRef
Parvovirus: H1-SL1 (H1) to Meas-SL1 (Meas)	Seqs: Two de novo
Meas-SL1 to Meas-SL1 (Meas-SL1) to Meas-SL1 (Meas)	Days: are in Ref
Confidence in the reference is based on Refseq	Created by: gms@ucsf.edu on 12/12/2011



For example, if the Mayan *North* Azimuth = 90, then from the *Gold North* Azimuth = 99 + 7.47 = 107.47.

Marshall & Winston, INC
Location: Lea County, NM
Facility: Loma Dena Unit Fed 35 1H
Site No. 1H SHL
Well No. 1H
Webcode: No. 1H/PWB

Field reference well: 1H SHL PWB	Grid System: NAD83 / 114 Meter North String Figures, Eastern Zone (NAD83 US Feet)
True vertical depth (TVD) is referenced to Mean Sea Level (MSL)	Mean Reference: Gridiron
Top of hole (TOH) is Mean Sea Level (MSL)	Scale: True Distance
Mean Sea Level (MSL) is 3615 feet	Depths are in feet
Coordinates are in feet referenced to Survey Location	Created by: Darcen on 1/27/2011



0020110450 B2201 01 Dec 03 57 PM 4048 TAT
Map scale: 1:1000
To view: 1000 ft = 1 inch
Copyright: 2003 Baker Hughes
For further information, contact Baker Hughes at 1-800-393-3747

Marshall & Winston, INC

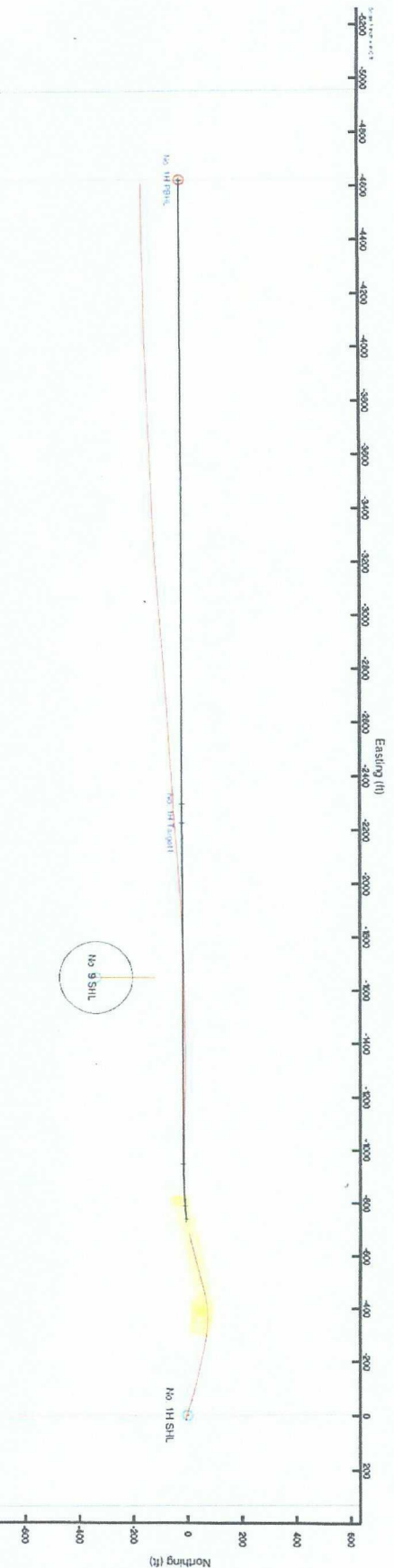
Location: Lea County, NM
 Facility: Laguna Deep Unit 635.1H

Well No: 1H SHL
 Well No: 1H PWB

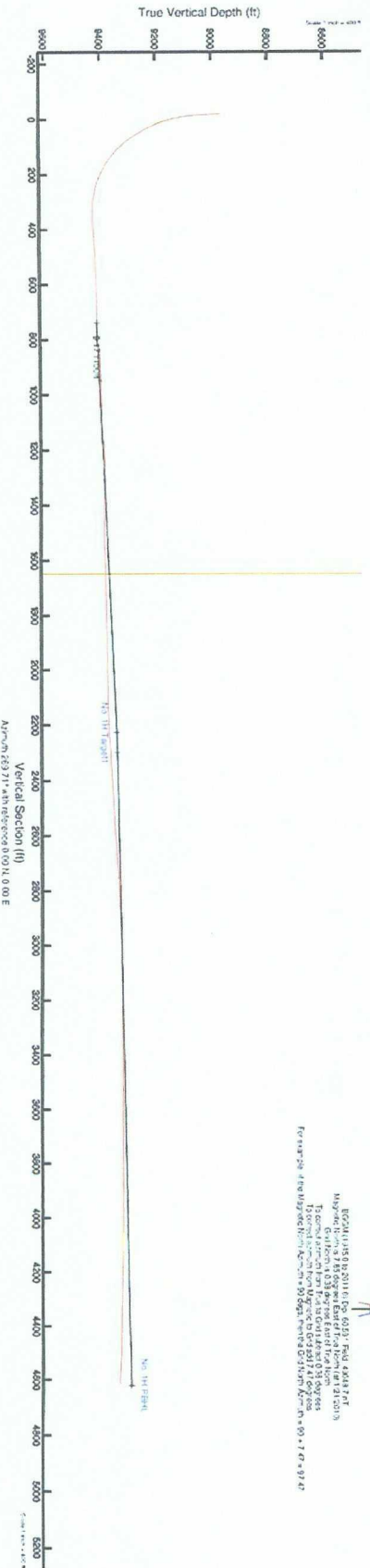


Well Profile Data

Design Comment	MD (ft)	Inc (°)	Az (°)	TYD (ft)	Local N (ft)	Local E (ft)	DLS (%/100ft)	VS (ft)
Tie On	10041.00	91.300	262.100	9414.30	-5.86	-739.39	0.00	739.41
Prior to Bit	10091.00	92.200	266.600	9412.78	-10.77	-789.11	9.17	789.15
EOB	10250.27	92.559	269.768	9406.16	-15.82	-948.14	2.00	948.21
EOH - Target 1	11530.68	92.559	269.768	9349.00	-21.00	-2227.27	0.00	2227.35
EOD	11601.64	91.152	269.955	9346.70	-21.17	-2298.19	2.00	2298.26
No. 1H PWB	13924.60	91.152	269.955	9300.00	-23.00	-4620.68	0.00	4620.74



Post reference weight is 14.72 ST	0-4 System: N1027 / M116 - Mission Data Files, Eastern Zone (3001 US feet)
True vertical depth is referenced to Rig on 1H SHL (RT)	High Reference Grid: 0.00
Measured depth is referenced to Rig on 1H SHL (RT)	Scale: True distance
Page 10: 1H SHL (RT) is Mean Sea Level: 3015 feet	Depth: 0.00
Mean Sea Level to Mudline Facility, Laguna Deep Unit 635.1H: 3015 feet	Created by: gpcrcrc on 1/21/2011
Coordinates are in feet referenced to Surface location	





Actual Wellpath Report

No.1H PWP

Page 1 of 5



INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	Marshall & Winston, INC	Slot	No. 1H SHL
Area	Lea County, NM	Well	No. 1H
Field	(LDU) Sec 35, T19S, R33E	Wellbore	No.1H PWB
Facility	Leguna Deep Unit Fed 35-1H		

REPORT SETUP INFORMATION

Projection System	NAD27 / TM New Mexico State Planes, Eastern Zone (3001), US feet	Software System	WellArchitect® 2.0
North Reference	Grid	User	Gomeoscr
Scale	0.999963	Report Generated	1/24/2011 at 7:33:56 AM
Convergence at slot	0.38° East	Database/Source file	WA Midland/No.1H_PWB.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[USft]	Northing[USft]	Latitude	Longitude
Slot Location	0.00	0.00	717823.50	588407.40	32°36'56.317"N	103°37'33.258"W
Facility Reference Pt			717823.50	588407.40	32°36'56.317"N	103°37'33.258"W
Field Reference Pt			717823.50	588407.40	32°36'56.317"N	103°37'33.258"W

WELLPATH DATUM

Calculation method	Minimum curvature	Rig on No. 1H SHL (RT) to GL	21.00ft
Horizontal Reference Pt	Surface Location	Rig on No. 1H SHL (RT) to Mean Sea Level	3636.00ft
Vertical Reference Pt	Rig on No. 1H SHL (RT)	GL to Mud Line (Facility)	0.00ft
MD Reference Pt	Rig on No. 1H SHL (RT)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	269.71°



Actual Wellpath Report

No.1H PWP

Page 2 of 5



REFERENCE WELLPATH IDENTIFICATION

Operator	Marshall & Winston, INC	Slot	No. 1H SHL
Area	Lea County, NM	Well	No. 1H
Field	(LDU) Sec 35, T19S, R33E	Wellbore	No.1H PWB
Facility	Leguna Deep Unit Fed 35-1H		

WELLPATH DATA (156 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	DLS [°/100ft]	Comments
8964.15	0.480	314.870	8963.30	-19.25	-4.75	19.27	717842.77	588402.65	32°36'56.268"N	103°37'33.033"W	0.00	
8999.00	1.300	276.300	8998.15	-18.75	-4.60	18.77	717842.27	588402.80	32°36'56.270"N	103°37'33.039"W	2.79	
9031.00	4.700	218.500	9030.10	-17.57	-5.59	17.60	717841.10	588401.81	32°36'56.260"N	103°37'33.052"W	12.98	
9063.00	5.000	277.000	9062.01	-15.36	-6.45	15.39	717838.89	588400.95	32°36'56.252"N	103°37'33.078"W	14.82	
9095.00	8.300	277.900	9093.79	-11.69	-5.96	11.72	717835.22	588401.44	32°36'56.257"N	103°37'33.121"W	10.32	
9127.00	12.700	283.400	9125.24	-5.99	-4.83	6.01	717829.51	588402.57	32°36'56.268"N	103°37'33.188"W	14.09	
9159.00	17.000	285.600	9156.17	1.94	-2.75	-1.92	717821.58	588404.65	32°36'56.289"N	103°37'33.280"W	13.55	
9190.00	21.200	287.700	9185.45	11.63	0.17	-11.63	717811.87	588407.57	32°36'56.319"N	103°37'33.394"W	13.73	
9222.00	25.800	288.400	9214.79	23.74	4.13	-23.76	717799.74	588411.53	32°36'56.359"N	103°37'33.535"W	14.40	
9254.00	30.100	289.100	9243.05	37.91	8.96	-37.95	717785.55	588416.36	32°36'56.408"N	103°37'33.701"W	13.48	
9281.00	33.000	287.100	9266.06	51.32	13.34	-51.38	717772.12	588420.74	32°36'56.452"N	103°37'33.857"W	11.42	
9313.00	37.300	285.300	9292.22	68.98	18.46	-69.07	717754.43	588425.86	32°36'56.504"N	103°37'34.064"W	13.82	
9344.00	42.200	284.900	9316.05	88.09	23.62	-88.21	717735.30	588431.02	32°36'56.556"N	103°37'34.287"W	15.83	
9376.00	47.300	283.700	9338.77	109.88	29.17	-110.03	717713.47	588436.57	32°36'56.612"N	103°37'34.542"W	16.15	
9408.00	52.600	283.600	9359.35	133.65	34.95	-133.83	717689.68	588442.35	32°36'56.671"N	103°37'34.819"W	16.56	
9439.00	58.100	283.000	9376.97	158.43	40.81	-158.64	717664.87	588448.21	32°36'56.731"N	103°37'35.109"W	17.81	
9471.00	63.600	282.100	9392.55	185.67	46.87	-185.91	717637.60	588454.27	32°36'56.793"N	103°37'35.427"W	17.36	
9503.00	69.300	281.400	9405.33	214.35	52.84	-214.61	717608.89	588460.24	32°36'56.854"N	103°37'35.763"W	17.92	
9535.00	75.100	280.800	9415.11	244.20	58.70	-244.50	717579.01	588466.10	32°36'56.914"N	103°37'36.111"W	18.21	
9567.00	80.900	279.900	9421.76	274.95	64.32	-275.28	717548.23	588471.72	32°36'56.971"N	103°37'36.471"W	18.33	
9598.00	85.500	277.100	9425.43	305.36	68.86	-305.71	717517.80	588476.26	32°36'57.018"N	103°37'36.826"W	17.34	
9630.00	89.400	273.400	9426.85	337.17	71.79	-337.53	717485.98	588479.18	32°36'57.049"N	103°37'37.198"W	16.79	
9661.00	93.100	269.200	9426.18	368.14	72.49	-368.51	717455.01	588479.89	32°36'57.058"N	103°37'37.560"W	18.05	
9693.00	93.400	264.100	9424.36	400.03	70.62	-400.39	717423.13	588478.02	32°36'57.042"N	103°37'37.933"W	15.94	
9779.00	92.500	254.900	9419.92	484.46	54.99	-484.74	717338.77	588462.38	32°36'56.893"N	103°37'38.920"W	10.73	
9811.00	92.300	255.400	9418.58	515.41	46.79	-515.65	717307.87	588454.19	32°36'56.814"N	103°37'39.282"W	1.68	
9842.00	92.400	255.300	9417.31	545.41	38.96	-545.62	717277.91	588446.36	32°36'56.738"N	103°37'39.633"W	0.46	
9874.00	91.000	255.700	9416.36	576.42	30.95	-576.58	717246.94	588438.35	32°36'56.661"N	103°37'39.996"W	4.55	
9906.00	90.800	256.600	9415.86	607.52	23.29	-607.65	717215.88	588430.69	32°36'56.587"N	103°37'40.360"W	2.88	
9938.00	90.700	256.600	9415.44	638.69	15.88	-638.77	717184.75	588423.28	32°36'56.516"N	103°37'40.724"W	0.31	
9969.00	90.300	256.400	9415.17	668.86	8.64	-668.92	717154.61	588416.04	32°36'56.446"N	103°37'41.077"W	1.44	
10000.00	90.600	256.500	9414.93	699.04	1.38	-699.05	717124.48	588408.78	32°36'56.376"N	103°37'41.430"W	1.02	
10009.00	90.600	258.800	9414.83	707.84	-0.55	-707.84	717115.68	588406.85	32°36'56.358"N	103°37'41.533"W	25.55	
10041.00	91.300	262.100	9414.30	739.41	-5.86	-739.39	717084.14	588401.54	32°36'56.307"N	103°37'41.902"W	10.54	
10073.00	92.200	264.500	9413.33	771.19	-9.59	-771.15	717052.38	588397.81	32°36'56.272"N	103°37'42.274"W	8.01	
10105.00	94.800	266.000	9411.37	803.03	-12.23	-802.98	717020.55	588395.17	32°36'56.248"N	103°37'42.646"W	9.38	
10136.00	95.000	267.600	9408.72	833.88	-13.96	-833.82	716989.71	588393.44	32°36'56.233"N	103°37'43.007"W	5.18	
10168.00	93.800	268.600	9406.27	865.77	-15.01	-865.71	716957.83	588392.39	32°36'56.225"N	103°37'43.379"W	4.88	
10199.00	92.400	270.100	9404.59	896.72	-15.36	-896.66	716926.88	588392.04	32°36'56.223"N	103°37'43.741"W	6.61	
10231.00	92.000	270.700	9403.37	928.70	-15.14	-928.63	716894.90	588392.26	32°36'56.228"N	103°37'44.115"W	2.25	
10262.00	91.800	270.600	9402.34	959.67	-14.79	-959.61	716863.92	588392.61	32°36'56.233"N	103°37'44.477"W	0.72	
10294.00	91.500	270.600	9401.42	991.66	-14.45	-991.60	716831.94	588392.95	32°36'56.239"N	103°37'44.851"W	0.94	
10326.00	91.200	270.400	9400.66	1023.65	-14.18	-1023.59	716799.95	588393.22	32°36'56.244"N	103°37'45.225"W	1.13	
10358.00	91.400	270.400	9399.94	1055.64	-13.95	-1055.58	716767.96	588393.45	32°36'56.248"N	103°37'45.599"W	0.62	
10389.00	93.100	271.000	9398.72	1086.61	-13.57	-1086.55	716736.99	588393.83	32°36'56.254"N	103°37'45.961"W	5.81	

Actual Wellpath Report

No.1H PWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	Marshall & Winston, INC	Slot	No. 1H SHL
Area	Lea County, NM	Well	No. 1H
Field	(LDU) Sec 35, T19S, R33E	Wellbore	No.1H PWB
Facility	Leguna Deep Unit Fed 35-1H		

WELLPATH DATA (156 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	DLS [°/100ft]	Comments
10421.00	92.900	270.700	9397.04	1118.56	-13.10	-1118.50	716705.04	588394.30	32°36'56.260"N	103°37'46.335"W	1.13	
10453.00	93.400	270.700	9395.29	1150.50	-12.71	-1150.45	716673.09	588394.69	32°36'56.266"N	103°37'46.708"W	1.56	
10485.00	93.200	271.300	9393.44	1182.44	-12.15	-1182.39	716641.15	588395.25	32°36'56.274"N	103°37'47.081"W	1.97	
10517.00	93.300	271.400	9391.63	1214.38	-11.40	-1214.33	716609.21	588396.00	32°36'56.284"N	103°37'47.455"W	0.44	
10549.00	91.700	271.100	9390.23	1246.33	-10.70	-1246.30	716577.25	588396.70	32°36'56.293"N	103°37'47.828"W	5.09	
10580.00	90.000	270.400	9389.77	1277.32	-10.30	-1277.29	716546.26	588397.10	32°36'56.299"N	103°37'48.191"W	5.93	
10612.00	88.800	270.000	9390.11	1309.32	-10.18	-1309.29	716514.26	588397.22	32°36'56.302"N	103°37'48.565"W	3.95	
10644.00	88.900	269.500	9390.75	1341.31	-10.32	-1341.28	716482.27	588397.08	32°36'56.302"N	103°37'48.939"W	1.59	
10675.00	88.500	269.700	9391.45	1372.31	-10.54	-1372.27	716451.28	588396.86	32°36'56.302"N	103°37'49.301"W	1.44	
10707.00	89.000	269.200	9392.15	1404.30	-10.85	-1404.26	716419.29	588396.55	32°36'56.301"N	103°37'49.675"W	2.21	
10739.00	90.200	269.200	9392.38	1436.29	-11.29	-1436.26	716387.30	588396.11	32°36'56.299"N	103°37'50.049"W	3.75	
10770.00	89.900	268.900	9392.35	1467.29	-11.81	-1467.25	716356.30	588395.59	32°36'56.296"N	103°37'50.412"W	1.37	
10802.00	89.800	268.700	9392.43	1499.29	-12.48	-1499.24	716324.31	588394.92	32°36'56.292"N	103°37'50.786"W	0.70	
10834.00	90.700	269.000	9392.29	1531.28	-13.12	-1531.24	716292.32	588394.28	32°36'56.287"N	103°37'51.160"W	2.96	
10866.00	91.300	269.000	9391.73	1563.28	-13.68	-1563.23	716260.33	588393.72	32°36'56.284"N	103°37'51.534"W	1.87	
10898.00	91.600	268.800	9390.92	1595.26	-14.29	-1595.21	716228.35	588393.11	32°36'56.280"N	103°37'51.908"W	1.13	
10929.00	91.700	268.700	9390.03	1626.25	-14.97	-1626.19	716197.37	588392.43	32°36'56.275"N	103°37'52.270"W	0.46	
10961.00	91.500	268.900	9389.14	1658.23	-15.64	-1658.17	716165.39	588391.76	32°36'56.271"N	103°37'52.644"W	0.88	
10992.00	91.400	268.400	9388.35	1689.21	-16.37	-1689.15	716134.41	588391.03	32°36'56.265"N	103°37'53.006"W	1.64	
11024.00	91.200	268.100	9387.63	1721.19	-17.35	-1721.13	716102.44	588390.05	32°36'56.258"N	103°37'53.380"W	1.13	
11055.00	90.900	267.800	9387.06	1752.17	-18.46	-1752.10	716071.46	588388.95	32°36'56.249"N	103°37'53.742"W	1.37	
11087.00	91.000	267.300	9386.53	1784.15	-19.82	-1784.07	716039.50	588387.58	32°36'56.237"N	103°37'54.116"W	1.59	
11118.00	91.200	267.300	9385.93	1815.11	-21.28	-1815.03	716008.54	588386.12	32°36'56.225"N	103°37'54.478"W	0.65	
11150.00	92.200	267.600	9384.99	1847.07	-22.71	-1846.98	715976.59	588384.69	32°36'56.213"N	103°37'54.852"W	3.26	
11182.00	91.100	267.600	9384.06	1879.04	-24.05	-1878.94	715944.63	588383.36	32°36'56.202"N	103°37'55.225"W	3.44	
11213.00	89.900	266.700	9383.79	1910.01	-25.59	-1909.90	715913.67	588381.81	32°36'56.189"N	103°37'55.587"W	4.84	
11245.00	91.200	266.300	9383.49	1941.95	-27.54	-1941.84	715881.73	588379.86	32°36'56.171"N	103°37'55.961"W	4.25	
11277.00	91.600	266.100	9382.70	1973.88	-29.66	-1973.76	715849.82	588377.74	32°36'56.153"N	103°37'56.334"W	1.40	
11309.00	91.700	266.100	9381.78	2005.81	-31.84	-2005.67	715817.90	588375.57	32°36'56.133"N	103°37'56.708"W	0.31	
11341.00	91.600	265.800	9380.86	2037.72	-34.09	-2037.58	715786.00	588373.31	32°36'56.113"N	103°37'57.081"W	0.99	
11372.00	91.300	265.600	9380.08	2068.64	-36.42	-2068.48	715755.10	588370.98	32°36'56.092"N	103°37'57.442"W	1.16	
11403.00	90.300	265.000	9379.64	2099.54	-38.96	-2099.37	715724.21	588368.44	32°36'56.069"N	103°37'57.804"W	3.76	
11434.00	90.900	265.100	9379.32	2130.44	-41.63	-2130.26	715693.32	588365.77	32°36'56.044"N	103°37'58.165"W	1.96	
11466.00	91.700	265.100	9378.59	2162.33	-44.37	-2162.13	715661.45	588363.04	32°36'56.019"N	103°37'58.538"W	2.50	
11498.00	92.000	265.100	9377.56	2194.21	-47.10	-2194.00	715629.59	588360.30	32°36'55.994"N	103°37'58.910"W	0.94	
11530.00	93.200	265.600	9376.11	2226.08	-49.69	-2225.86	715597.73	588357.71	32°36'55.971"N	103°37'59.283"W	4.06	
11562.00	93.900	265.900	9374.13	2257.94	-52.06	-2257.71	715565.88	588355.35	32°36'55.949"N	103°37'59.656"W	2.38	
11594.00	94.100	267.800	9371.90	2289.82	-53.81	-2289.58	715534.01	588353.59	32°36'55.934"N	103°38'00.028"W	5.96	
11625.00	93.000	266.300	9369.98	2320.73	-55.40	-2320.48	715503.11	588352.00	32°36'55.920"N	103°38'00.390"W	5.99	
11657.00	93.100	266.400	9368.27	2352.63	-57.44	-2352.37	715471.22	588349.97	32°36'55.902"N	103°38'00.763"W	0.44	
11689.00	93.100	266.300	9366.54	2384.53	-59.47	-2384.26	715439.33	588347.93	32°36'55.884"N	103°38'01.136"W	0.31	
11721.00	93.100	266.400	9364.81	2416.42	-61.51	-2416.15	715407.45	588345.90	32°36'55.866"N	103°38'01.509"W	0.31	
11753.00	93.200	266.300	9363.05	2448.32	-63.54	-2448.03	715375.56	588343.86	32°36'55.848"N	103°38'01.881"W	0.44	
11785.00	92.800	266.200	9361.38	2480.22	-65.63	-2479.92	715343.67	588341.77	32°36'55.830"N	103°38'02.254"W	1.29	
11817.00	92.700	266.200	9359.84	2512.12	-67.75	-2511.81	715311.78	588339.65	32°36'55.811"N	103°38'02.627"W	0.31	



Actual Wellpath Report

No.1H PWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	Marshall & Winston, INC	Slot	No. 1H SHL
Area	Lea County, NM	Well	No. 1H
Field	(LDU) Sec 35, T19S, R33E	Wellbore	No.1H PWB
Facility	Leguna Deep Unit Fed 35-1H		

WELLPATH DATA (156 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	DLS [°/100ft]	Comments
11849.00	93.400	266.100	9358.14	2544.01	-69.89	-2543.70	715279.90	588337.51	32°36'55.792"N	103°38'03.000"W	2.21	
11880.00	93.600	266.200	9356.25	2574.90	-71.97	-2574.57	715249.03	588335.43	32°36'55.773"N	103°38'03.361"W	0.72	
11912.00	93.500	265.700	9354.27	2606.77	-74.23	-2606.43	715217.17	588333.18	32°36'55.753"N	103°38'03.734"W	1.59	
11944.00	93.900	265.900	9352.20	2638.62	-76.57	-2638.28	715185.33	588330.84	32°36'55.732"N	103°38'04.106"W	1.40	
11976.00	93.800	266.100	9350.05	2670.48	-78.79	-2670.13	715153.48	588328.61	32°36'55.712"N	103°38'04.479"W	0.70	
12007.00	93.800	266.000	9348.00	2701.35	-80.92	-2700.98	715122.62	588326.48	32°36'55.693"N	103°38'04.840"W	0.32	
12039.00	94.100	266.000	9345.79	2733.21	-83.15	-2732.83	715090.78	588324.25	32°36'55.673"N	103°38'05.212"W	0.94	
12071.00	94.000	265.900	9343.53	2765.06	-85.40	-2764.67	715058.94	588322.00	32°36'55.652"N	103°38'05.585"W	0.44	
12103.00	93.700	266.000	9341.39	2796.92	-87.66	-2796.52	715027.09	588319.74	32°36'55.632"N	103°38'05.957"W	0.99	
12134.00	93.100	265.800	9339.55	2827.80	-89.87	-2827.38	714996.22	588317.53	32°36'55.612"N	103°38'06.318"W	2.04	
12166.00	93.200	265.100	9337.79	2859.66	-92.41	-2859.24	714964.38	588315.00	32°36'55.589"N	103°38'06.691"W	2.21	
12198.00	93.200	264.800	9336.00	2891.50	-95.22	-2891.06	714932.55	588312.18	32°36'55.564"N	103°38'07.063"W	0.94	
12230.00	91.800	265.800	9334.61	2923.37	-97.84	-2922.92	714900.69	588309.57	32°36'55.540"N	103°38'07.436"W	5.37	
12261.00	91.600	265.400	9333.69	2954.28	-100.22	-2953.82	714869.80	588307.19	32°36'55.518"N	103°38'07.797"W	1.44	
12293.00	90.800	265.200	9333.02	2986.18	-102.84	-2985.70	714837.91	588304.57	32°36'55.494"N	103°38'08.170"W	2.58	
12325.00	90.700	265.600	9332.60	3018.08	-105.40	-3017.60	714806.02	588302.00	32°36'55.471"N	103°38'08.543"W	1.29	
12356.00	90.500	265.300	9332.27	3049.00	-107.86	-3048.50	714775.12	588299.54	32°36'55.449"N	103°38'08.905"W	1.16	
12388.00	90.600	265.300	9331.97	3080.90	-110.48	-3080.39	714743.23	588296.92	32°36'55.425"N	103°38'09.278"W	0.31	
12419.00	91.100	265.700	9331.51	3111.81	-112.92	-3111.29	714712.33	588294.49	32°36'55.403"N	103°38'09.639"W	2.07	
12451.00	91.000	265.700	9330.92	3143.73	-115.32	-3143.19	714680.43	588292.09	32°36'55.381"N	103°38'10.012"W	0.31	
12482.00	90.700	266.100	9330.46	3174.66	-117.53	-3174.11	714649.51	588289.87	32°36'55.361"N	103°38'10.374"W	1.61	
12514.00	90.800	266.100	9330.04	3206.59	-119.71	-3206.03	714617.59	588287.70	32°36'55.342"N	103°38'10.747"W	0.31	
12545.00	90.600	265.800	9329.66	3237.52	-121.90	-3236.95	714586.67	588285.51	32°36'55.322"N	103°38'11.109"W	1.16	
12577.00	90.300	265.800	9329.41	3269.44	-124.24	-3268.87	714554.76	588283.16	32°36'55.301"N	103°38'11.482"W	0.94	
12608.00	89.800	266.900	9329.38	3300.39	-126.21	-3299.80	714523.82	588281.19	32°36'55.283"N	103°38'11.844"W	3.90	
12640.00	90.100	267.400	9329.41	3332.36	-127.81	-3331.76	714491.86	588279.60	32°36'55.270"N	103°38'12.218"W	1.82	
12671.00	90.100	267.900	9329.36	3363.34	-129.08	-3362.74	714460.89	588278.33	32°36'55.259"N	103°38'12.580"W	1.61	
12703.00	89.700	268.000	9329.41	3395.32	-130.22	-3394.72	714428.91	588277.18	32°36'55.250"N	103°38'12.954"W	1.29	
12735.00	89.900	267.600	9329.53	3427.30	-131.45	-3426.69	714396.94	588275.96	32°36'55.240"N	103°38'13.328"W	1.40	
12767.00	89.800	267.600	9329.61	3459.28	-132.79	-3458.66	714364.97	588274.62	32°36'55.229"N	103°38'13.702"W	0.31	
12798.00	90.500	267.700	9329.53	3490.26	-134.06	-3489.64	714334.00	588273.34	32°36'55.218"N	103°38'14.064"W	2.28	
12830.00	90.300	267.600	9329.30	3522.24	-135.37	-3521.61	714302.03	588272.03	32°36'55.207"N	103°38'14.438"W	0.70	
12861.00	89.900	267.600	9329.25	3553.22	-136.67	-3552.58	714271.05	588270.73	32°36'55.196"N	103°38'14.800"W	1.29	
12893.00	90.000	267.700	9329.28	3585.20	-137.98	-3584.56	714239.08	588269.42	32°36'55.185"N	103°38'15.174"W	0.44	
12925.00	90.200	267.600	9329.22	3617.18	-139.29	-3616.53	714207.11	588268.11	32°36'55.175"N	103°38'15.548"W	0.70	
12957.00	90.400	267.300	9329.06	3649.15	-140.72	-3648.50	714175.14	588266.69	32°36'55.162"N	103°38'15.921"W	1.13	
12988.00	90.400	267.400	9328.84	3680.13	-142.15	-3679.46	714144.18	588265.25	32°36'55.150"N	103°38'16.284"W	0.32	
13020.00	90.300	267.500	9328.64	3712.10	-143.58	-3711.43	714112.21	588263.83	32°36'55.138"N	103°38'16.657"W	0.44	
13052.00	89.900	267.900	9328.59	3744.08	-144.86	-3743.41	714080.24	588262.55	32°36'55.128"N	103°38'17.031"W	1.77	
13083.00	90.100	267.300	9328.59	3775.06	-146.16	-3774.38	714049.27	588261.25	32°36'55.117"N	103°38'17.393"W	2.04	
13115.00	90.100	267.400	9328.53	3807.03	-147.64	-3806.34	714017.30	588259.77	32°36'55.104"N	103°38'17.767"W	0.31	
13147.00	90.200	267.600	9328.45	3839.01	-149.03	-3838.31	713985.34	588258.37	32°36'55.093"N	103°38'18.141"W	0.70	
13178.00	90.700	268.000	9328.20	3869.99	-150.22	-3869.29	713954.36	588257.18	32°36'55.083"N	103°38'18.503"W	2.07	
13210.00	90.500	267.600	9327.87	3901.97	-151.45	-3901.26	713922.39	588255.95	32°36'55.073"N	103°38'18.877"W	1.40	
13242.00	90.500	267.900	9327.59	3933.95	-152.71	-3933.24	713890.41	588254.70	32°36'55.062"N	103°38'19.251"W	0.94	

Actual Wellpath Report

No.1H PWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION			
Operator	Marshall & Winston, INC	Slot	No. 1H SHL
Area	Lea County, NM	Well	No. 1H
Field	(LDU) Sec 35, T19S, R33E	Wellbore	No.1H PWB
Facility	Leguna Deep Unit Fed 35-1H		

WELLPATH DATA (156 stations)												
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	DLS [°/100ft]	Comments
13273.00	90.300	268.300	9327.37	3964.94	-153.74	-3964.22	713859.43	588253.67	32°36'55.054"N	103°38'19.613"W	1.44	
13305.00	89.700	268.600	9327.37	3996.93	-154.60	-3996.21	713827.45	588252.80	32°36'55.048"N	103°38'19.987"W	2.10	
13337.00	89.400	268.600	9327.62	4028.92	-155.38	-4028.20	713795.46	588252.02	32°36'55.042"N	103°38'20.361"W	0.94	
13369.00	89.600	269.000	9327.90	4060.92	-156.05	-4060.19	713763.47	588251.35	32°36'55.037"N	103°38'20.736"W	1.40	
13401.00	89.500	269.000	9328.16	4092.91	-156.61	-4092.18	713731.47	588250.79	32°36'55.034"N	103°38'21.110"W	0.31	
13432.00	89.000	268.900	9328.56	4123.91	-157.18	-4123.18	713700.48	588250.23	32°36'55.030"N	103°38'21.472"W	1.64	
13463.00	89.000	269.200	9329.10	4154.90	-157.69	-4154.17	713669.49	588249.71	32°36'55.027"N	103°38'21.834"W	0.97	
13494.00	88.900	268.900	9329.67	4185.89	-158.21	-4185.16	713638.50	588249.20	32°36'55.024"N	103°38'22.197"W	1.02	
13526.00	88.800	269.200	9330.31	4217.88	-158.74	-4217.15	713606.52	588248.67	32°36'55.021"N	103°38'22.571"W	0.99	
13558.00	89.100	268.600	9330.90	4249.87	-159.35	-4249.13	713574.53	588248.05	32°36'55.017"N	103°38'22.945"W	2.10	
13590.00	89.300	269.100	9331.35	4281.87	-159.99	-4281.12	713542.54	588247.41	32°36'55.013"N	103°38'23.319"W	1.68	
13622.00	89.100	268.600	9331.79	4313.86	-160.64	-4313.11	713510.55	588246.77	32°36'55.008"N	103°38'23.693"W	1.68	
13653.00	88.900	269.300	9332.33	4344.85	-161.20	-4344.10	713479.56	588246.20	32°36'55.005"N	103°38'24.055"W	2.35	
13684.00	88.500	269.000	9333.04	4375.84	-161.66	-4375.09	713448.58	588245.74	32°36'55.002"N	103°38'24.417"W	1.61	
13716.00	88.600	269.200	9333.85	4407.83	-162.17	-4407.08	713416.59	588245.24	32°36'54.999"N	103°38'24.791"W	0.70	
13748.00	88.300	269.100	9334.71	4439.82	-162.64	-4439.06	713384.61	588244.77	32°36'54.997"N	103°38'25.165"W	0.99	
13780.00	88.300	269.400	9335.66	4471.80	-163.06	-4471.05	713352.63	588244.35	32°36'54.995"N	103°38'25.539"W	0.94	
13811.00	88.100	269.600	9336.64	4502.79	-163.33	-4502.03	713321.64	588244.08	32°36'54.994"N	103°38'25.901"W	0.91	
13843.00	87.800	269.600	9337.78	4534.77	-163.55	-4534.01	713289.67	588243.85	32°36'54.994"N	103°38'26.275"W	0.94	
13874.00	87.500	269.300	9339.05	4565.74	-163.85	-4564.98	713258.69	588243.56	32°36'54.993"N	103°38'26.637"W	1.37	
13924.00	87.500	269.300	9341.23	4615.69	-164.46	-4614.93	713208.75	588242.95	32°36'54.990"N	103°38'27.221"W	0.00	Proj to Bit

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	Shape
No. 1H PBHL		9300.00	-23.00	-4620.68	713203.00	588384.40	32°36'56.390"N	103°38'27.278"W	point
No. 1H Target1		9349.00	-21.00	-2227.27	715596.32	588386.40	32°36'56.255"N	103°37'59.297"W	point

WELLPATH COMPOSITION Ref Wellbore: No.1H PWB Ref Wellpath: No.1H PWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
8964.15	10000.00	ISCWSA MWD, Rev. 2 (Standard)	MWD-Greatwhite	No.1H PWB
10000.00	13924.00	NaviTrak (Standard)	MWD	No.1H PWB

DISTRICT I
1625 N. FRENCH DR., HOBBS, NM 88240

DISTRICT II
1301 W. GRAND AVENUE, ARTESIA, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV
1220 S. ST. FRANCIS DR., SANTA FE, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION
1220 SOUTH ST. FRANCIS DR.
Santa Fe, New Mexico 87505

Form C-102
Revised October 12, 2005
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number	Pool Code	Pool Name
Property Code	Property Name LAGUNA DEEP UNIT FEDERAL 35	Well Number 1H
OGRID No.	Operator Name MARSHALL & WINSTON, INC.	Elevation 3597'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	35	19-S	33-E		2310	SOUTH	330	EAST	LEA

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	35	19-S	33-E		2169	SOUTH	336	WEST	LEA

Dedicated Acres	Joint or Infill	Consolidation Code	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

GEODETIC COORDINATES NAD 27 NME SURFACE LOCATION Y=588407.4 N X=717823.5 E LAT.=32.615643° N LONG.=103.625905° W AS-DRILLED BOTTOM HOLE LOCATION Y=588243.0 N X=713209.6 E GRID AZ.--267°57'34" HORZ. DIST.--4617.8'	DETAIL 3597.6' 3596.2' 600' 3595.9' 3596.7' 255.6' 330' S.L. SEE DETAIL	OPERATOR CERTIFICATION I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased 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 mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. <i>Vernon D. Dyer</i> 2-26-2011 Signature Date VERNON D. DYER Printed Name
336' B.H. 2169'		SURVEYOR 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 and correct to the best of my belief. JANUARY 11, 2010 Date Surveyed LA Signature & Seal of Professional Surveyor RONALD J. EIDSON 02/25/2011 11-13-0474 Certificate No. GARY EIDSON 12641 PROFESSOR EIDSON 3239

February 21, 2011

RE: Marshall & Winston, Inc.
Laguna Deep Unit Federal 35 #1H
Lea County, New Mexico

David Brooks
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

Dear Mr. Brooks:

As per your telephone conversation with Gary Gorley concerning the non standard location (NSL) on the above caption well which was caused by the bit drifted north 72 feet which located the lateral in the Bone Spring Formation 257.51 feet from the north line. The spacing unit requirements dictate 330 feet lease line distances for a standard location.

Marshall & Winston, Inc, now comes forward for an administrative approval for the Non-Standard Location and for this administrative approval, we submit the following:

1. A letter from Cimarex Energy Company (the offset Operator) consenting to the exception for the production from this unorthodox location.
2. A well profile from Baker Hughes indicating the drilling profile of the lateral string of the drilling in this well as it relates to the east lease line and the north lease line.
3. A well profile data sheet also indicating the drilling profile of the lateral line from Baker & Hughes.
4. An Actual Wellpath Report from Baker & Hughes.

I have requested a C-102 from John West Surveying Services of Hobbs, New Mexico and it will in the package of the items listed above sent to you by FedEx as soon as I receive it. I am emailing this to you so you can review and advise of any additional information you may need for the administrative approval.

Yours very truly,

Vernon D. Dyer, CPL
Agent for Marshall & Winston, Inc.



January 31, 2011

Cimarex Energy Company
600 N. Marienfeld St.
Suite 600
Midland, TX 79701

Attn: Mark Compton

RE: Marshall & Winston, Inc.
Laguna Deep Unit Federal 35 #1H
Sec. 35, T19S, R33E
Lea County, NM

Mr. Compton:

Please note on the attached final survey plot for the captioned well the lateral drifted north 72 feet which located the lateral in the Bone Spring Formation 257.51 feet from the north lease line. Spacing requirements dictate 330 feet lease line distances for an orthodox location.

Marshall & Winston, Inc. respectfully requests approval from Cimarex Energy Company, as the effected offset operator, an exception for production from an unorthodox location. The approval of this exception will allow for regulatory administrative approval on this matter.

Should this request be acceptable, please so indicate by signing the attached waiver and returning to the letterhead address at your earliest convenience.

Your attention to this request is greatly appreciated and please direct comments or questions to the undersigned. Thank you in advance for your cooperation.

Very truly yours,

A handwritten signature in cursive script, reading "Tom M. Brandt".

Tom M. Brandt
President

TMB/sr

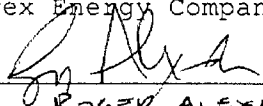
Enclosure

Waiver

RE: Marshall & Winston, Inc.
Laguna Deep Unit Federal 35 #1H
Sec. 35, T19S, R33E
Lea County, NM
API No. 30-025-39946

Cimarex Energy Company, as the north offset operator to the captioned well, hereby waives its objection to production from an unorthodox location in the Bone Spring Formation. This exception is granted solely for the captioned wellbore in the First Bone Spring Formation at a TVD of approximately 9426 feet.

Cimarex Energy Company

By:  

ROGER ALEXANDER

Title: ATTORNEY IN FACT 

Date: FEBRUARY 16, 2011

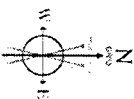
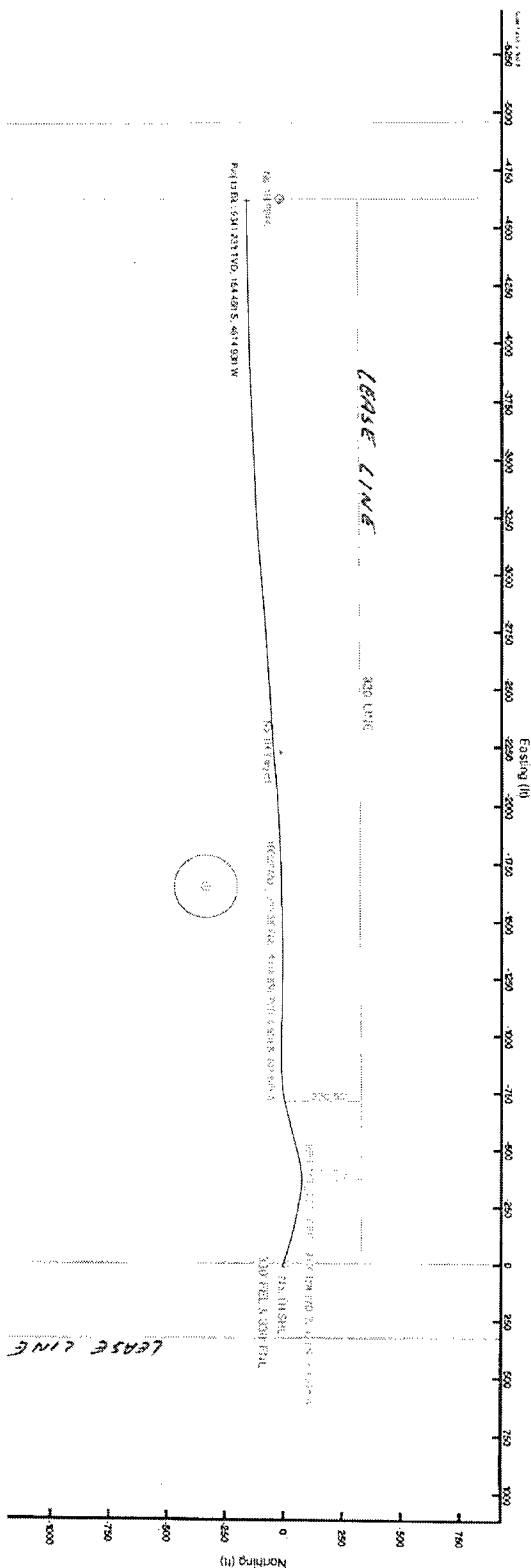


Marshall & Winston, INC

Location:	Los County, NM
Folio:	1101 Sec 35, T19S, R33E
Facility:	Levee District Fed 35-1

Slid: No. 1H SHL
Weld: No. 1H
Welds: No. 1H P/F

The western Oryzias are referred to

[illegible][illegible]

**BAKER
HUGHES**
INTEQ

Location: LA 00000000
Field: 00000000
Project: 00000000

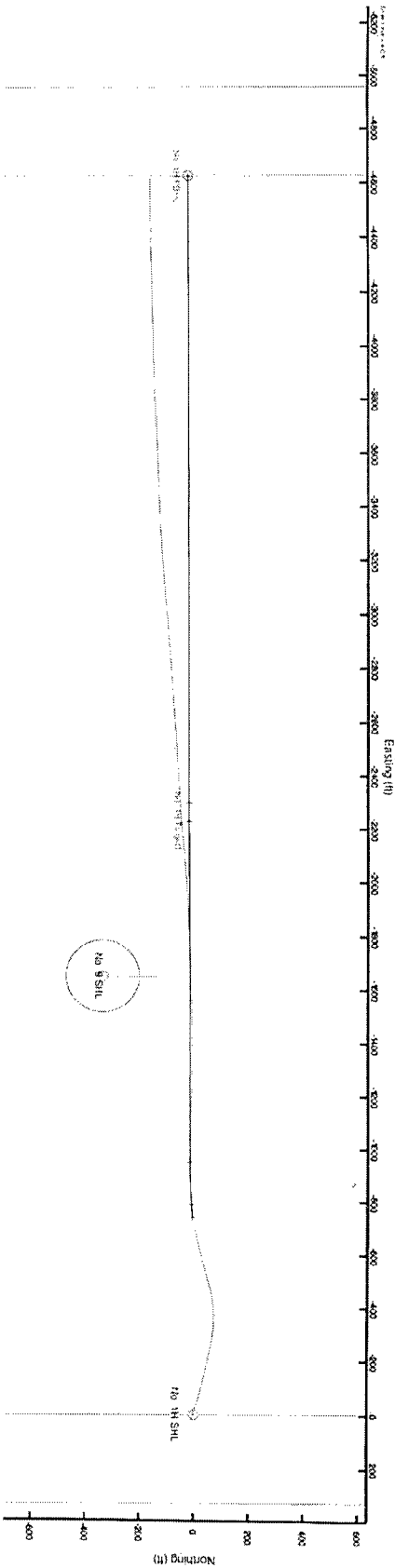
Marshall & Winston, INC

Site: No. 11 SHL
Well: No. 11 SHL
Well: No. 11 SHL

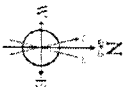


Well Profile Data

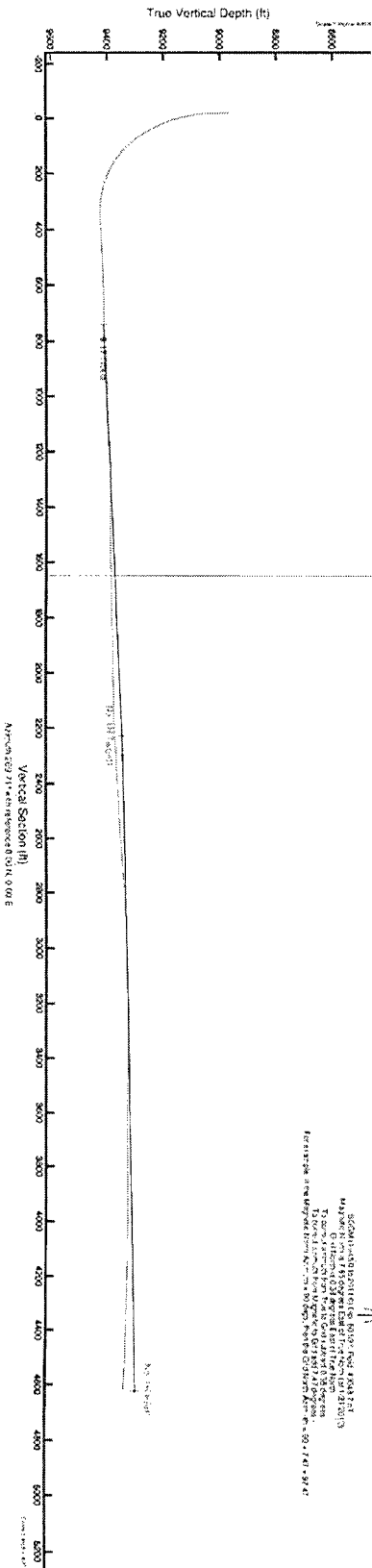
Depth Comment	MD (ft)	Inc (°)	Alt (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (100ft)	VS (ft)
Tie On	10041.00	91.300	262.100	9414.30	-5.86	-739.39	0.00	739.41
Profile Bit	10691.00	92.200	266.600	9412.76	-10.77	-789.11	9.17	789.15
EOD	10950.27	92.553	269.768	9405.16	-15.82	-848.14	2.00	848.21
EOD - Target 1	11530.68	92.553	269.768	9399.00	-21.00	-8227.27	0.00	8227.35
EOD	11601.64	91.152	269.955	9346.70	-21.17	-8298.19	2.00	8298.26
No. 11 PBHL	13924.50	91.152	269.955	9300.00	-23.00	-8620.68	0.00	8620.74



Profile Name: Profile 1	MD (ft): 10041.00	Inc (°): 91.300	Alt (°): 262.100	TVD (ft): 9414.30	Local N (ft): -5.86	Local E (ft): -739.39	DLS (100ft): 0.00	VS (ft): 739.41
Profile Bit	10691.00	92.200	266.600	9412.76	-10.77	-789.11	9.17	789.15
EOD	10950.27	92.553	269.768	9405.16	-15.82	-848.14	2.00	848.21
EOD - Target 1	11530.68	92.553	269.768	9399.00	-21.00	-8227.27	0.00	8227.35
EOD	11601.64	91.152	269.955	9346.70	-21.17	-8298.19	2.00	8298.26
No. 11 PBHL	13924.50	91.152	269.955	9300.00	-23.00	-8620.68	0.00	8620.74



Profile Name: Profile 1
MD (ft): 10041.00
Inc (°): 91.300
Alt (°): 262.100
TVD (ft): 9414.30
Local N (ft): -5.86
Local E (ft): -739.39
DLS (100ft): 0.00
VS (ft): 739.41





Actual Wellpath Report

No.1H PWP
Page 1 of 5



REFERENCE WELLPATH IDENTIFICATION			
Operator	Marshall & Winston, INC	Slot	No. 1H SHL
Area	Lea County, NM	Well	No. 1H
Field	(LDU) Sec 35, T19S, R33E	Wellbore	No.1H PWB
Facility	Leguna Deep Unit Fed 35-1H		

REPORT SETUP INFORMATION			
Projection System	NAD27 / TM New Mexico State Planes, Eastern Zone (3001), US feet	Software System	WellArchitect® 2.0
North Reference	Grid	User	Gomeoscr
Scale	0.999963	Report Generated	1/24/2011 at 7:33:56 AM
Convergence at slot	0.38° East	Database/Source file	WA Midland/No.1H_PWB.xml

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[USft]	Northing[USft]	Latitude	Longitude
Slot Location	0.00	0.00	717823.50	588407.40	32°36'56.317"N	103°37'33.258"W
Facility Reference Pt			717823.50	588407.40	32°36'56.317"N	103°37'33.258"W
Field Reference Pt			717823.50	588407.40	32°36'56.317"N	103°37'33.258"W

WELLPATH DATUM			
Calculation method	Minimum curvature	Rig on No. 1H SHL (RT) to GL	21.00ft
Horizontal Reference Pt	Surface Location	Rig on No. 1H SHL (RT) to Mean Sea Level	3636.00ft
Vertical Reference Pt	Rig on No. 1H SHL (RT)	GL to Mud Line (Facility)	0.00ft
MD Reference Pt	Rig on No. 1H SHL (RT)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	269.71°

Actual Wellpath Report

No. 1H PWP

Page 2 of 5

INTEQ

REFERENCE WELLPATH IDENTIFICATION			
Operator	Marshall & Winston, INC	Slot	No. 1H SHL
Area	Lea County, NM	Well	No. 1H
Field	(LDU) Sec 35, T19S, R33E	Wellbore	No. 1H PWB
Facility	Leguna Deep Unit Fed 35-1H		

WELLPATH DATA (156 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	DLS [°/100ft]	Comments
8964.15	0.480	314.870	8963.30	-19.25	-4.75	19.27	717842.77	588402.65	32°36'56.268"N	103°37'33.033"W	0.00	
8999.00	1.300	276.300	8998.15	-18.75	-4.60	18.77	717842.27	588402.80	32°36'56.270"N	103°37'33.039"W	2.79	
9031.00	4.700	218.500	9030.10	-17.57	-5.59	17.60	717841.10	588401.81	32°36'56.260"N	103°37'33.052"W	12.98	
9063.00	5.000	277.000	9062.01	-15.36	-6.45	15.39	717838.89	588400.95	32°36'56.252"N	103°37'33.078"W	14.82	
9095.00	8.300	277.900	9093.79	-11.69	-5.96	-11.72	717835.22	588401.44	32°36'56.257"N	103°37'33.121"W	10.32	
9127.00	12.700	283.400	9125.24	-5.99	-4.83	6.01	717829.51	588402.57	32°36'56.268"N	103°37'33.188"W	14.09	
9159.00	17.000	285.600	9156.17	1.94	-2.75	-1.92	717821.58	588404.65	32°36'56.289"N	103°37'33.280"W	13.55	
9190.00	21.200	287.700	9185.45	11.63	0.17	-11.63	717811.87	588407.57	32°36'56.319"N	103°37'33.394"W	13.73	
9222.00	25.800	288.400	9214.79	23.74	4.13	-23.76	717799.74	588411.53	32°36'56.359"N	103°37'33.535"W	14.40	
9254.00	30.100	289.100	9243.05	37.91	8.96	-37.95	717785.55	588416.36	32°36'56.408"N	103°37'33.701"W	13.48	
9281.00	33.000	287.100	9266.06	51.32	13.34	-51.38	717772.12	588420.74	32°36'56.452"N	103°37'33.857"W	11.42	
9313.00	37.300	285.300	9292.22	68.98	18.46	-69.07	717754.43	588425.86	32°36'56.504"N	103°37'34.064"W	13.82	
9344.00	42.200	284.900	9316.05	88.09	23.62	-88.21	717735.30	588431.02	32°36'56.556"N	103°37'34.287"W	15.83	
9376.00	47.300	283.700	9338.77	109.88	29.17	-110.03	717713.47	588436.57	32°36'56.612"N	103°37'34.542"W	16.15	
9408.00	52.600	283.600	9359.35	133.65	34.95	-133.83	717689.68	588442.35	32°36'56.671"N	103°37'34.819"W	16.56	
9439.00	58.100	283.000	9376.97	158.43	40.81	-158.64	717664.87	588448.21	32°36'56.731"N	103°37'35.109"W	17.81	
9471.00	63.600	282.100	9392.55	185.67	46.87	-185.91	717637.60	588454.27	32°36'56.793"N	103°37'35.427"W	17.36	
9503.00	69.300	281.400	9405.33	214.35	52.84	-214.61	717608.89	588460.24	32°36'56.854"N	103°37'35.763"W	17.92	
9535.00	75.100	280.800	9415.11	244.20	58.70	-244.50	717579.01	588466.10	32°36'56.914"N	103°37'36.111"W	18.21	
9567.00	80.900	279.900	9421.76	274.95	64.32	-275.28	717548.23	588471.72	32°36'56.971"N	103°37'36.471"W	18.33	
9598.00	85.500	277.100	9425.43	305.36	68.86	-305.71	717517.80	588476.26	32°36'57.018"N	103°37'36.826"W	17.34	
9630.00	89.400	273.400	9426.85	337.17	71.79	-337.53	717485.98	588479.18	32°36'57.049"N	103°37'37.198"W	16.79	
9661.00	93.100	269.200	9426.18	368.14	72.49	-368.51	717455.01	588479.89	32°36'57.058"N	103°37'37.560"W	18.05	
9693.00	93.400	264.100	9424.36	400.03	70.62	-400.39	717423.13	588478.02	32°36'57.042"N	103°37'37.933"W	15.94	
9729.00	92.500	254.900	9419.92	484.46	54.99	-484.74	717338.77	588462.38	32°36'56.893"N	103°37'38.920"W	10.73	
9811.00	92.300	255.400	9418.58	515.41	46.79	-515.65	717307.87	588454.19	32°36'56.814"N	103°37'39.282"W	1.68	
9842.00	92.400	255.300	9417.31	545.41	38.96	-545.62	717277.91	588446.36	32°36'56.738"N	103°37'39.633"W	0.46	
9874.00	91.000	255.700	9416.36	576.42	30.95	-576.58	717246.94	588438.35	32°36'56.661"N	103°37'39.996"W	4.55	
9906.00	90.800	256.600	9415.86	607.52	23.29	-607.65	717215.88	588430.69	32°36'56.587"N	103°37'40.360"W	2.88	
9938.00	90.700	256.600	9415.44	638.69	15.88	-638.77	717184.75	588423.28	32°36'56.516"N	103°37'40.724"W	0.31	
9969.00	90.300	256.400	9415.17	668.86	8.64	-668.92	717154.61	588416.04	32°36'56.446"N	103°37'41.077"W	1.44	
10000.00	90.600	256.500	9414.93	699.04	1.38	-699.05	717124.48	588408.78	32°36'56.376"N	103°37'41.430"W	1.02	
10009.00	90.600	258.800	9414.83	707.84	-0.55	-707.84	717115.68	588406.85	32°36'56.358"N	103°37'41.533"W	25.55	
10041.00	91.300	262.100	9414.30	739.41	-5.86	-739.39	717084.14	588401.54	32°36'56.307"N	103°37'41.902"W	10.54	
10073.00	92.200	264.500	9413.33	771.19	-9.59	-771.15	717052.38	588397.81	32°36'56.272"N	103°37'42.274"W	8.01	
10105.00	94.800	266.000	9411.37	803.03	-12.23	-802.98	717020.55	588395.17	32°36'56.248"N	103°37'42.646"W	9.38	
10136.00	95.000	267.600	9408.72	833.88	-13.96	-833.82	716989.71	588393.44	32°36'56.233"N	103°37'43.007"W	5.18	
10168.00	93.800	268.600	9406.27	865.77	-15.01	-865.71	716957.83	588392.39	32°36'56.225"N	103°37'43.379"W	4.88	
10199.00	92.400	270.100	9404.59	896.72	-15.36	-896.66	716926.88	588392.04	32°36'56.223"N	103°37'43.741"W	6.61	
10231.00	92.000	270.700	9403.37	928.70	-15.14	-928.63	716894.90	588392.26	32°36'56.228"N	103°37'44.115"W	2.25	
10262.00	91.800	270.600	9402.34	959.67	-14.79	-959.61	716863.92	588392.61	32°36'56.233"N	103°37'44.477"W	0.72	
10294.00	91.500	270.600	9401.42	991.66	-14.45	-991.60	716831.94	588392.95	32°36'56.239"N	103°37'44.851"W	0.94	
10326.00	91.200	270.400	9400.66	1023.65	-14.18	-1023.59	716799.95	588393.22	32°36'56.244"N	103°37'45.225"W	1.13	
10358.00	91.400	270.400	9399.94	1055.64	-13.95	-1055.58	716767.96	588393.45	32°36'56.248"N	103°37'45.599"W	0.62	
10389.00	93.100	271.000	9398.72	1086.61	-13.57	-1086.55	716736.99	588393.83	32°36'56.254"N	103°37'45.961"W	5.81	

Actual Wellpath Report

No.1H PWP

Page 3 of 5

REFERENCE WELLPATH IDENTIFICATION

Operator	Marshall & Winston, INC	Slot	No. 1H SHL
Area	Lea County, NM	Well	No. 1H
Field	(LDU) Sec 35, T19S, R33E	Wellbore	No.1H PWB
Facility	Leguna Deep Unit Fed 35-1H		

WELLPATH DATA (156 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	DLS [°/100ft]	Comments
10421.00	92.900	270.700	9397.04	1118.56	-13.10	-1118.50	716705.04	588394.30	32°36'56.260"N	103°37'46.335"W	1.13	
10453.00	93.400	270.700	9395.29	1150.50	-12.71	-1150.45	716673.09	588394.69	32°36'56.266"N	103°37'46.708"W	1.56	
10485.00	93.200	271.300	9393.44	1182.44	-12.15	-1182.39	716641.15	588395.25	32°36'56.274"N	103°37'47.081"W	1.97	
10517.00	93.300	271.400	9391.63	1214.38	-11.40	-1214.33	716609.21	588396.00	32°36'56.284"N	103°37'47.455"W	0.44	
10549.00	91.700	271.100	9390.23	1246.33	-10.70	-1246.30	716577.25	588396.70	32°36'56.293"N	103°37'47.828"W	5.09	
10580.00	90.000	270.400	9389.77	1277.32	-10.30	-1277.29	716546.26	588397.10	32°36'56.299"N	103°37'48.191"W	5.93	
10612.00	88.800	270.000	9390.11	1309.32	-10.18	-1309.29	716514.26	588397.22	32°36'56.302"N	103°37'48.565"W	3.95	
10644.00	88.900	269.500	9390.75	1341.31	-10.32	-1341.28	716482.27	588397.08	32°36'56.302"N	103°37'48.939"W	1.59	
10675.00	88.500	269.700	9391.45	1372.31	-10.54	-1372.27	716451.28	588396.86	32°36'56.302"N	103°37'49.301"W	1.44	
10707.00	89.000	269.200	9392.15	1404.30	-10.85	-1404.26	716419.29	588396.55	32°36'56.301"N	103°37'49.675"W	2.21	
10739.00	90.200	269.200	9392.38	1436.29	-11.29	-1436.26	716387.30	588396.11	32°36'56.299"N	103°37'50.049"W	3.75	
10770.00	89.900	268.900	9392.35	1467.29	-11.81	-1467.25	716356.30	588395.59	32°36'56.296"N	103°37'50.412"W	1.37	
10802.00	89.800	268.700	9392.43	1499.29	-12.48	-1499.24	716324.31	588394.92	32°36'56.292"N	103°37'50.786"W	0.70	
10834.00	90.700	269.000	9392.29	1531.28	-13.12	-1531.24	716292.32	588394.28	32°36'56.287"N	103°37'51.160"W	2.96	
10866.00	91.300	269.000	9391.73	1563.28	-13.68	-1563.23	716260.33	588393.72	32°36'56.284"N	103°37'51.534"W	1.87	
10898.00	91.600	268.800	9390.92	1595.26	-14.29	-1595.21	716228.35	588393.11	32°36'56.280"N	103°37'51.908"W	1.13	
10929.00	91.700	268.700	9390.03	1626.25	-14.97	-1626.19	716197.37	588392.43	32°36'56.275"N	103°37'52.270"W	0.46	
10961.00	91.500	268.900	9389.14	1658.23	-15.64	-1658.17	716165.39	588391.76	32°36'56.271"N	103°37'52.644"W	0.88	
10992.00	91.400	268.400	9388.35	1689.21	-16.37	-1689.15	716134.41	588391.03	32°36'56.265"N	103°37'53.006"W	1.64	
11024.00	91.200	268.100	9387.63	1721.19	-17.35	-1721.13	716102.44	588390.05	32°36'56.258"N	103°37'53.380"W	1.13	
11055.00	90.900	267.800	9387.06	1752.17	-18.46	-1752.10	716071.46	588388.95	32°36'56.249"N	103°37'53.742"W	1.37	
11087.00	91.000	267.300	9386.53	1784.15	-19.82	-1784.07	716039.50	588387.58	32°36'56.237"N	103°37'54.116"W	1.59	
11118.00	91.200	267.300	9385.93	1815.11	-21.28	-1815.03	716008.54	588386.12	32°36'56.225"N	103°37'54.478"W	0.65	
11150.00	92.200	267.600	9384.99	1847.07	-22.71	-1846.98	715976.59	588384.69	32°36'56.213"N	103°37'54.852"W	3.26	
11182.00	91.100	267.600	9384.06	1879.04	-24.05	-1878.94	715944.63	588383.36	32°36'56.202"N	103°37'55.225"W	5.44	
11213.00	89.900	266.700	9383.79	1910.01	-25.59	-1909.90	715913.67	588381.81	32°36'56.189"N	103°37'55.587"W	4.84	
11245.00	91.200	266.300	9383.49	1941.95	-27.54	-1941.84	715881.73	588379.86	32°36'56.171"N	103°37'55.961"W	4.25	
11277.00	91.600	266.100	9382.70	1973.88	-29.66	-1973.76	715849.82	588377.74	32°36'56.153"N	103°37'56.334"W	1.40	
11309.00	91.700	266.100	9381.78	2005.81	-31.84	-2005.67	715817.90	588375.57	32°36'56.133"N	103°37'56.708"W	0.31	
11341.00	91.600	265.800	9380.86	2037.72	-34.09	-2037.58	715786.00	588373.31	32°36'56.113"N	103°37'57.081"W	0.99	
11372.00	91.300	265.600	9380.08	2068.64	-36.42	-2068.48	715755.10	588370.98	32°36'56.092"N	103°37'57.442"W	1.16	
11403.00	90.300	265.000	9379.64	2099.54	-38.96	-2099.37	715724.21	588368.44	32°36'56.069"N	103°37'57.804"W	3.76	
11434.00	90.900	265.100	9379.32	2130.44	-41.63	-2130.26	715693.32	588365.77	32°36'56.044"N	103°37'58.165"W	1.96	
11466.00	91.700	265.100	9378.59	2162.33	-44.37	-2162.13	715661.45	588363.04	32°36'56.019"N	103°37'58.538"W	2.50	
11498.00	92.000	265.100	9377.56	2194.21	-47.10	-2194.00	715629.59	588360.30	32°36'55.994"N	103°37'58.910"W	0.94	
11530.00	93.200	265.600	9376.11	2226.08	-49.69	-2225.86	715597.73	588357.71	32°36'55.971"N	103°37'59.283"W	4.06	
11562.00	93.900	265.900	9374.13	2257.94	-52.06	-2257.71	715565.88	588355.35	32°36'55.949"N	103°37'59.656"W	2.38	
11594.00	94.100	267.800	9371.90	2289.82	-53.81	-2289.58	715534.01	588353.59	32°36'55.934"N	103°38'00.028"W	5.96	
11625.00	95.000	266.300	9369.98	2320.73	-55.40	-2320.48	715503.11	588352.00	32°36'55.920"N	103°38'00.390"W	5.99	
11657.00	93.100	266.400	9368.27	2352.63	-57.44	-2352.37	715471.22	588349.97	32°36'55.902"N	103°38'00.763"W	0.44	
11689.00	93.100	266.300	9366.54	2384.53	-59.47	-2384.26	715439.33	588347.93	32°36'55.884"N	103°38'01.136"W	0.31	
11721.00	93.100	266.400	9364.81	2416.42	-61.51	-2416.15	715407.45	588345.90	32°36'55.866"N	103°38'01.509"W	0.31	
11753.00	93.200	266.300	9363.05	2448.32	-63.54	-2448.03	715375.56	588343.86	32°36'55.848"N	103°38'01.881"W	0.44	
11785.00	92.800	266.200	9361.38	2480.22	-65.63	-2479.92	715343.67	588341.77	32°36'55.830"N	103°38'02.254"W	1.29	
11817.00	92.700	266.200	9359.84	2512.12	-67.75	-2511.81	715311.78	588339.65	32°36'55.811"N	103°38'02.627"W	0.31	

Actual Wellpath Report

No.1H PWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	Marshall & Winston, INC	Slot	No. 1H SHL
Area	Lea County, NM	Well	No. 1H
Field	(LDU) Sec 35, T19S, R33E	Wellbore	No.1H PWB
Facility	Laguna Deep Unit Fed 35-1H		

WELLPATH DATA (156 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	DLS [°/100ft]	Comments
11849.00	93.400	266.100	9358.14	2544.01	-69.89	-2543.70	715279.90	588337.51	32°36'55.792"N	103°38'03.000"W	2.21	
11880.00	93.600	266.200	9356.25	2574.90	-71.97	-2574.57	715249.03	588335.43	32°36'55.773"N	103°38'03.361"W	0.72	
11912.00	93.500	265.700	9354.27	2606.77	-74.23	-2606.43	715217.17	588333.18	32°36'55.753"N	103°38'03.734"W	1.59	
11944.00	93.900	265.900	9352.20	2638.62	-76.57	-2638.28	715185.33	588330.84	32°36'55.732"N	103°38'04.106"W	1.40	
11976.00	93.800	266.100	9350.05	2670.48	-78.79	-2670.13	715153.48	588328.61	32°36'55.712"N	103°38'04.479"W	0.70	
12007.00	93.800	266.000	9348.00	2701.35	-80.92	-2700.98	715122.62	588326.48	32°36'55.693"N	103°38'04.840"W	0.32	
12039.00	94.100	266.000	9345.79	2733.21	-83.15	-2732.83	715090.78	588324.25	32°36'55.673"N	103°38'05.212"W	0.94	
12071.00	94.000	265.900	9343.53	2765.06	-85.40	-2764.67	715058.94	588322.00	32°36'55.652"N	103°38'05.585"W	0.44	
12103.00	93.700	266.000	9341.39	2796.92	-87.66	-2796.52	715027.09	588319.74	32°36'55.632"N	103°38'05.957"W	0.99	
12134.00	93.100	265.800	9339.55	2827.80	-89.87	-2827.38	714996.22	588317.53	32°36'55.612"N	103°38'06.318"W	2.04	
12166.00	93.200	265.100	9337.79	2859.66	-92.41	-2859.24	714964.38	588315.00	32°36'55.589"N	103°38'06.691"W	2.21	
12198.00	93.200	264.800	9336.00	2891.50	-95.22	-2891.06	714932.55	588312.18	32°36'55.564"N	103°38'07.063"W	0.94	
12230.00	91.800	265.800	9334.61	2923.37	-97.84	-2922.92	714900.69	588309.57	32°36'55.540"N	103°38'07.436"W	5.37	
12261.00	91.600	265.400	9333.69	2954.28	-100.22	-2953.82	714869.80	588307.19	32°36'55.518"N	103°38'07.797"W	1.44	
12293.00	90.800	265.200	9333.02	2986.18	-102.84	-2985.70	714837.91	588304.57	32°36'55.494"N	103°38'08.170"W	2.58	
12325.00	90.700	265.600	9332.60	3018.08	-105.40	-3017.60	714806.02	588302.00	32°36'55.471"N	103°38'08.543"W	1.29	
12356.00	90.500	265.300	9332.27	3049.00	-107.86	-3048.50	714775.12	588299.54	32°36'55.449"N	103°38'08.905"W	1.16	
12388.00	90.600	265.300	9331.97	3080.90	-110.48	-3080.39	714743.23	588296.92	32°36'55.425"N	103°38'09.278"W	0.31	
12419.00	91.100	265.700	9331.51	3111.81	-112.92	-3111.29	714712.33	588294.49	32°36'55.403"N	103°38'09.639"W	2.07	
12451.00	91.000	265.700	9330.92	3143.73	-115.32	-3143.19	714680.43	588292.09	32°36'55.381"N	103°38'10.012"W	0.31	
12482.00	90.700	266.100	9330.46	3174.66	-117.53	-3174.11	714649.51	588289.87	32°36'55.361"N	103°38'10.374"W	1.61	
12514.00	90.800	266.100	9330.04	3206.59	-119.71	-3206.03	714617.59	588287.70	32°36'55.342"N	103°38'10.747"W	0.31	
12545.00	90.600	265.800	9329.66	3237.52	-121.90	-3236.95	714586.67	588285.51	32°36'55.322"N	103°38'11.109"W	1.16	
12577.00	90.300	265.800	9329.41	3269.44	-124.24	-3268.87	714554.76	588283.16	32°36'55.301"N	103°38'11.482"W	0.94	
12608.00	89.800	266.900	9329.38	3300.39	-126.21	-3299.80	714523.82	588281.19	32°36'55.283"N	103°38'11.844"W	3.90	
12640.00	90.100	267.400	9329.41	3332.36	-127.81	-3331.76	714491.86	588279.60	32°36'55.270"N	103°38'12.218"W	1.82	
12671.00	90.100	267.900	9329.36	3363.34	-129.08	-3362.74	714460.89	588278.33	32°36'55.259"N	103°38'12.580"W	1.61	
12703.00	89.700	268.000	9329.41	3395.32	-130.22	-3394.72	714428.91	588277.18	32°36'55.250"N	103°38'12.954"W	1.29	
12735.00	89.900	267.600	9329.53	3427.30	-131.45	-3426.69	714396.94	588275.96	32°36'55.240"N	103°38'13.328"W	1.40	
12767.00	89.800	267.600	9329.61	3459.28	-132.79	-3458.66	714364.97	588274.62	32°36'55.229"N	103°38'13.702"W	0.31	
12798.00	90.500	267.700	9329.53	3490.26	-134.06	-3489.64	714334.00	588273.34	32°36'55.218"N	103°38'14.064"W	2.28	
12830.00	90.300	267.600	9329.30	3522.24	-135.37	-3521.61	714302.03	588272.03	32°36'55.207"N	103°38'14.438"W	0.70	
12861.00	89.900	267.600	9329.25	3553.22	-136.67	-3552.58	714271.05	588270.73	32°36'55.196"N	103°38'14.800"W	1.29	
12893.00	90.000	267.700	9329.28	3585.20	-137.98	-3584.56	714239.08	588269.42	32°36'55.185"N	103°38'15.174"W	0.44	
12925.00	90.200	267.600	9329.22	3617.18	-139.29	-3616.53	714207.11	588268.11	32°36'55.175"N	103°38'15.548"W	0.70	
12957.00	90.400	267.300	9329.06	3649.15	-140.72	-3648.50	714175.14	588266.69	32°36'55.162"N	103°38'15.921"W	1.13	
12988.00	90.400	267.400	9328.84	3680.13	-142.15	-3679.46	714144.18	588265.25	32°36'55.150"N	103°38'16.284"W	0.32	
13020.00	90.300	267.500	9328.64	3712.10	-143.58	-3711.43	714112.21	588263.83	32°36'55.138"N	103°38'16.657"W	0.44	
13052.00	89.900	267.900	9328.59	3744.08	-144.86	-3743.41	714080.24	588262.55	32°36'55.128"N	103°38'17.031"W	1.77	
13083.00	90.100	267.300	9328.59	3775.06	-146.16	-3774.38	714049.27	588261.25	32°36'55.117"N	103°38'17.393"W	2.04	
13115.00	90.100	267.400	9328.53	3807.03	-147.64	-3806.34	714017.30	588259.77	32°36'55.104"N	103°38'17.767"W	0.31	
13147.00	90.200	267.600	9328.45	3839.01	-149.03	-3838.31	713985.34	588258.37	32°36'55.093"N	103°38'18.141"W	0.70	
13178.00	90.700	268.000	9328.20	3869.99	-150.22	-3869.29	713954.36	588257.18	32°36'55.083"N	103°38'18.503"W	2.07	
13210.00	90.500	267.600	9327.87	3901.97	-151.45	-3901.26	713922.39	588255.95	32°36'55.073"N	103°38'18.877"W	1.40	
13242.00	90.500	267.900	9327.59	3933.95	-152.71	-3933.24	713890.41	588254.70	32°36'55.062"N	103°38'19.251"W	0.94	



Actual Wellpath Report

No.1H PWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	Marshall & Winston, INC	Slot	No. 1H SHL
Area	Lea County, NM	Well	No. 1H
Field	(LDU) Sec 35, T19S, R33E	Wellbore	No.1H PWB
Facility	Leguna Deep Unit Fed 35-1H		

WELLPATH DATA (156 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	DLS [°/100ft]	Comments
13273.00	90.300	268.300	9327.37	3964.94	-153.74	-3964.22	713859.43	588253.67	32°36'55.054"N	103°38'19.613"W	1.44	
13305.00	89.700	268.600	9327.37	3996.93	-154.60	-3996.21	713827.45	588252.80	32°36'55.048"N	103°38'19.987"W	2.10	
13337.00	89.400	268.600	9327.62	4028.92	-155.38	-4028.20	713795.46	588252.02	32°36'55.042"N	103°38'20.361"W	0.94	
13369.00	89.600	269.000	9327.90	4060.92	-156.05	-4060.19	713763.47	588251.35	32°36'55.037"N	103°38'20.736"W	1.40	
13401.00	89.500	269.000	9328.16	4092.91	-156.61	-4092.18	713731.47	588250.79	32°36'55.034"N	103°38'21.110"W	0.31	
13432.00	89.000	268.900	9328.56	4123.91	-157.18	-4123.18	713700.48	588250.23	32°36'55.030"N	103°38'21.472"W	1.64	
13463.00	89.000	269.200	9329.10	4154.90	-157.69	-4154.17	713669.49	588249.71	32°36'55.027"N	103°38'21.834"W	0.97	
13494.00	88.900	268.900	9329.67	4185.89	-158.21	-4185.16	713638.50	588249.20	32°36'55.024"N	103°38'22.197"W	1.02	
13526.00	88.800	269.200	9330.31	4217.88	-158.74	-4217.15	713606.52	588248.67	32°36'55.021"N	103°38'22.571"W	0.99	
13558.00	89.100	268.600	9330.90	4249.87	-159.35	-4249.13	713574.53	588248.05	32°36'55.017"N	103°38'22.945"W	2.10	
13590.00	89.300	269.100	9331.35	4281.87	-159.99	-4281.12	713542.54	588247.41	32°36'55.013"N	103°38'23.319"W	1.68	
13622.00	89.100	268.600	9331.79	4313.86	-160.64	-4313.11	713510.55	588246.77	32°36'55.008"N	103°38'23.693"W	1.68	
13653.00	88.900	269.300	9332.33	4344.85	-161.20	-4344.10	713479.56	588246.20	32°36'55.005"N	103°38'24.055"W	2.35	
13684.00	88.500	269.000	9333.04	4375.84	-161.66	-4375.09	713448.58	588245.74	32°36'55.002"N	103°38'24.417"W	1.61	
13716.00	88.600	269.200	9333.85	4407.83	-162.17	-4407.08	713416.59	588245.24	32°36'54.999"N	103°38'24.791"W	0.70	
13748.00	88.300	269.100	9334.71	4439.82	-162.64	-4439.06	713384.61	588244.77	32°36'54.997"N	103°38'25.165"W	0.99	
13780.00	88.300	269.400	9335.66	4471.80	-163.06	-4471.05	713352.63	588244.35	32°36'54.995"N	103°38'25.539"W	0.94	
13811.00	88.100	269.600	9336.64	4502.79	-163.33	-4502.03	713321.64	588244.08	32°36'54.994"N	103°38'25.901"W	0.91	
13843.00	87.800	269.600	9337.78	4534.77	-163.55	-4534.01	713289.67	588243.85	32°36'54.994"N	103°38'26.275"W	0.94	
13874.00	87.500	269.300	9339.05	4565.74	-163.85	-4564.98	713258.69	588243.56	32°36'54.993"N	103°38'26.637"W	1.37	
13924.00	87.500	269.300	9341.23	4615.69	-164.46	-4614.93	713208.75	588242.95	32°36'54.990"N	103°38'27.221"W	0.00	Proj to Bit

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	Shape
No. 1H PBHL		9300.00	-23.00	-4620.68	713203.00	588384.40	32°36'56.390"N	103°38'27.278"W	point
No. 1H Target1		9349.00	-21.00	-2227.27	715596.32	588386.40	32°36'56.255"N	103°37'59.297"W	point

WELLPATH COMPOSITION Ref Wellbore: No.1H PWB Ref Wellpath: No.1H PWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
8964.15	10000.00	ISCWSA MWD, Rev. 2 (Standard)	MWD-Greatwhite	No.1H PWB
10000.00	13924.00	NaviTrak (Standard)	MWD	No.1H PWB

Brooks, David K., EMNRD

From: Brooks, David K., EMNRD
Sent: Wednesday, February 23, 2011 9:29 AM
To: 'vernon dyer'
Subject: RE: Non Standard Location

Dear Mr. Dyer

In addition to the materials furnished, we will need a completed Form C-102 showing the well's actual location, and an Administrative Application Cover Sheet, also a description of offsetting ownership sufficient to assure us that Cimarex is the only affected party.

Thanks

David K. Brooks

-----Original Message-----

From: verner dyer [<mailto:vdveroil@cableone.net>]
Sent: Wednesday, February 23, 2011 8:29 AM
To: Brooks, David K., EMNRD
Cc: vdveroil@cableone.net
Subject: Fwd: Non Standard Location

Mr. Brooks:

I sent this last evening, but I had your email address incorrect. If you have any questions, please contact me.

Thanks,
Vernon

----- Forwarded message -----

From: Vernon Dyer <vdveroil@cableone.net>
Date: Tue, Feb 22, 2011 at 6:39 PM
Subject: Non Standard Location
To: David Brooks <david.brooks@atate.nm.us>
Cc: testo@cableone.net, vdveroil@cableone.net

Mr. Brooks:

Attached hereto are the information requested for the administrative approval for the NSL on the Laguna Deep Unit Federal 35 #1H. I have spent time today with John West Survey and they are preparing the C-102. He will send it to me by email and I will place it with the attachments to this email and FedEx the original copies to you Tuesday or Wednesday. We were planning on fracturing the well on Friday of this week. If you have any questions, please feel free to contact me by email or by 575-420-0355.

Vernon d. Dyer

Agent for Marshall & Winston, Inc.

Brooks, David K., EMNRD

From: Vernon Dyer [vdjeroil@cableone.net]
Sent: Thursday, February 24, 2011 7:52 PM
To: Brooks, David K., EMNRD
Cc: gherrera@mar-win.com; testo@cableone.net; vdjeroil@cableone.net
Subject: Emailing: Image (15).tif
Attachments: Image (15).tif

Mr. Brooks:

I have attached hereto the an completed Administrative Application Checklist, an abstract from the BLM Carlsbad Office indicating Cimarex Energy Co. as the operator of the N/2 Section 35, T-19-S R-33-E, Lea County New Mexico and a plat indication Cimarex as the Operator of the Laguna Deep Federal Unit and the outline of the Laguna Deep Federal Unit. I talked to John West Survey and they plan on sending me the C-102 tomorrow morning and upon receiving it, I will forward the same to you, then place all the attachments email to you by way of FedEx. If you have any questions, please contact me.

Thank You,
Vernon D. Dyer

DATE IN	SUSPENSE	ENGINEER	LOGGED IN	TYPE	APP NO.
---------	----------	----------	-----------	------	---------

ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
- Engineering Bureau -
1220 South St. Francis Drive, Santa Fe, NM 87505



ADMINISTRATIVE APPLICATION CHECKLIST

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Application Acronyms:

[NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]
[DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
[PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
[WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
[SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
[EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

- [1] TYPE OF APPLICATION - Check Those Which Apply for [A]
- [A] Location - Spacing Unit - Simultaneous Dedication
☒ NSL ☐ NSP ☐ SD
- Check One Only for [B] or [C]
- [B] Commingling - Storage - Measurement
☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM
- [C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
☐ WFX ☐ PMX ☐ SWD ☐ IPI ☐ EOR ☐ PPR
- [D] Other: Specify A section of the horizontal traveled inside the 330.
- [2] NOTIFICATION REQUIRED TO: - Check Those Which Apply, or Does Not Apply
- [A] ☐ Working, Royalty or Overriding Royalty Interest Owners
- [B] ☐ Offset Operators, Leaseholders or Surface Owner
- [C] ☐ Application is One Which Requires Published Legal Notice
- [D] ☐ Notification and/or Concurrent Approval by BLM or SLO
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
- [E] ☐ For all of the above, Proof of Notification or Publication is Attached, and/or,
- [F] ☐ Waivers are Attached
- [3] SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.
- [4] CERTIFICATION: I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

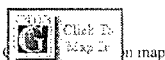
Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Vernon D. Dyer
Print or Type Name

Vernon Dyer
Signature

Agent: Marshall/Winston 2-23-2011
Title Date

vdveroil@cableone.net
e-mail Address



DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
CASE RECORDATION
(MASS) Serial Register Page

Run Time 12:00 PM

Page 1 of 2

Run Date: 02/24/11

01 02-25-1920:041STAT0437:30USC181 NLS-PARCEL2/map.jsp? Total Acres Serial Number
Case Type 318210: O&G EXPLORATORY UN category=BLM&castype=318210&a 1,920.000 NMNM-- - 070966X
Commodity 459: OIL & GAS L dminregion=NM&id=1866747
Case Disposition: AUTHORIZED SN=NMNM-- - 070966X

Serial Number: NMNM-- - 070966X

Name & Address	Int Rel	% Interest
BLM CARLSBAD FO 620 E GREENE ST CARLSBAD NM 88220 OFFICE OF RECORD 0.00000000		
CIMAREX ENERGY CO OF COLORADO 1700 LINCOLN ST STE 1800 DENVER CO 802034518 OPERATOR 100.00000000		

Serial Number: NMNM-- - 070966X

Mer Twp	Rng	Sec	STyp	SNr SUFF	Subdivision	District/Field Office	County	Mgmt Agency
23 D190S 0330E 025			ALIQ		W2	CARLSBAD FO	LEA	BUREAU OF LAND MGMT
23 D190S 0330E 026			ALL		ENTIRE SECTION	CARLSBAD FO	LEA	BUREAU OF LAND MGMT
23 D190S 0330E 035			ALL		ENTIRE SECTION	CARLSBAD FO	LEA	BUREAU OF LAND MGMT
23 D190S 0330E 036			ALIQ		W2	CARLSBAD FO	LEA	BUREAU OF LAND MGMT

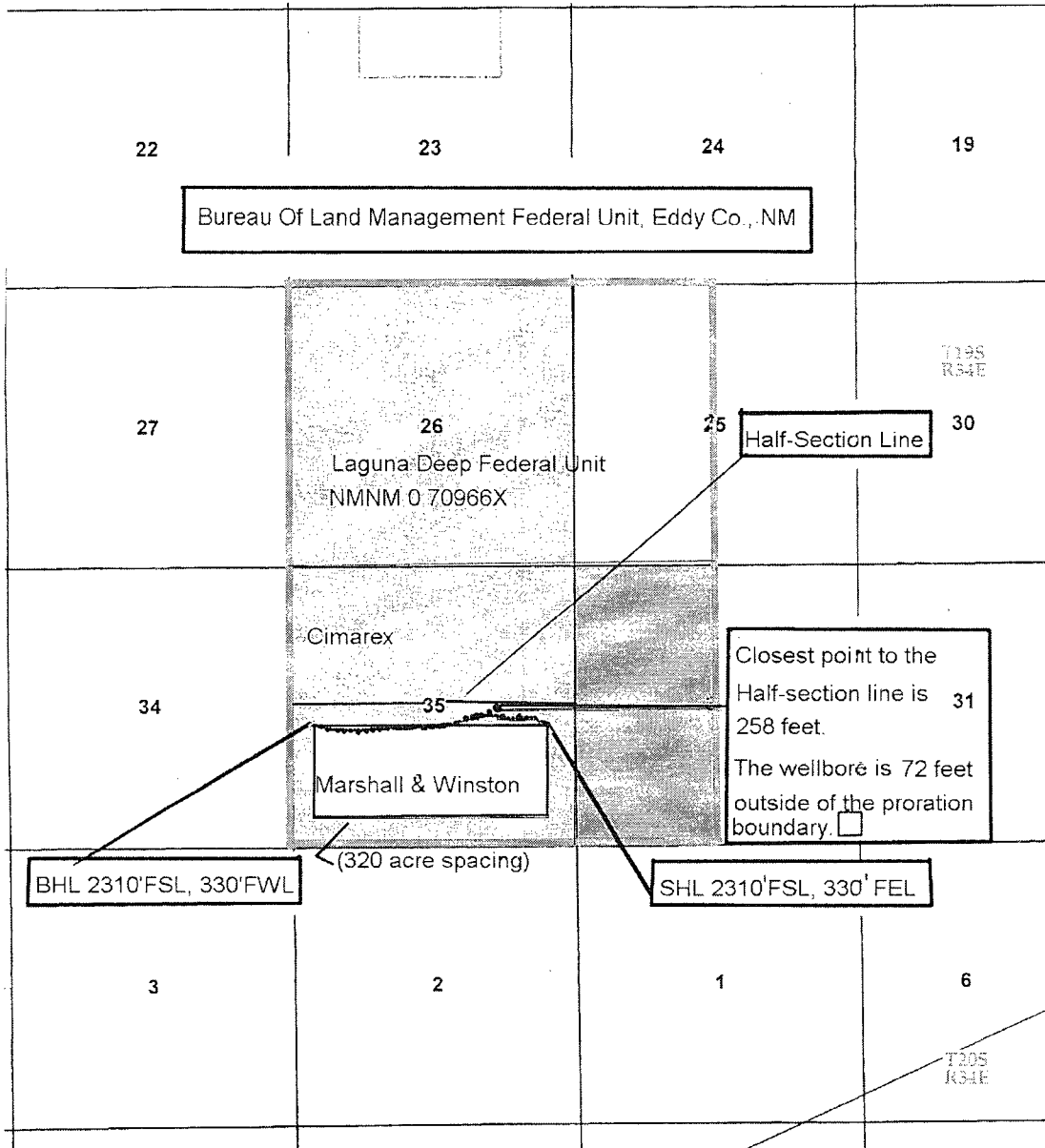
Serial Number: NMNM-- - 070966X

Act Date	Code	Action	Action Remark	Pending Office
01/29/1973	357	CASE ESTABLISHED	DESIGNATION RECEIVED	
01/29/1973	590	GEOGRAPHIC NAME	LAGUNA DEEP	
01/29/1973	690	AGREEMENT FILED		
02/15/1973	519	AGMT/EXPANSION DESIG	AGREEMENT	
06/22/1978	334	AGMT APPROVED		
06/22/1978	501	REFERENCE NUMBER	UA 14-06-0001-16505	
06/22/1978	515	REFERENCE NUMBER (AFS)	AFS 891-016505-X	
06/22/1978	515	FORMATION	ALL	
06/22/1978	068	EFFECTIVE DATE	/A/ UNIT AGREEMENT	
02/09/1979	654	AGMT PRODUCING	INT NRRU 06 PA A BA	
02/09/1984	668	EFFECTIVE DATE	/B/1/ 1ST CONTRACTION	
06/26/1984	500	PROPOSAL RECEIVED	/B/1/AUTO CONTRACTION	
10/22/1984	892	AGMT CONTRACTION ABFV	/B/1/	
11/07/1989	374	AUTOMATED RECORD VERIF	MVD/AN	
03/29/1985	421	PLAN OPER/EXPL/DEV FILED	/2/	
04/26/1993	422	PLAN OPER/EXPL/DEV APFY	/2/	
04/14/1990	672	SUCCESSOR OPERATOR	UNION OIL/MATADOR	
09/02/2003	817	MERGER RECOGNIZED	MATADOR E&P/MATADOR	
09/02/2003	817	MERGER RECOGNIZED	MATADOR/TOM BROWN INC	
10/03/2003	664	PA EFFECTIVE	INIT ATORA PA 5 /C/	
09/28/2004	672	SUCCESSOR OPERATOR	/3/TOM BROWN/GRUY	
09/29/2004	974	AUTOMATED RECORD VERIF	NO	
09/09/2005	817	MERGER RECOGNIZED	TOM BROWN/ENCANA O&G	
08/14/2006	940	NAME CHANGE RECOGNIZED	GRUY/CIMAREX COLO	

Serial Number: NMNM-- - 070966X

Line Nr	Remarks
0002	/A/ EXHIBIT B EFFECTIVE DATE 06/22/1978
0003	LEASE SERIAL NO TR4 STATUS ACRES
0004	NMNM 030941 1 FC 160.00
0005	NMNM 9824 2 FC 200.00
0006	NMNM 9992 3 FC 320.00

NO WARRANTY IS MADE BY BLM FOR USE OF THE DATA FOR PURPOSES NOT INTENDED BY BLM



22

23

24

19

Bureau Of Land Management Federal Unit, Eddy Co., NM

T19S
R34E

27

26

25

30

Laguna Deep Federal Unit
NMNM 0 70966X

Half-Section Line

Cimarex

34

35

31

Marshall & Winston

Closest point to the
Half-section line is
258 feet.
The wellbore is 72 feet
outside of the proration
boundary. 

BHL 2310'FSL, 330'FWL

(320 acre spacing)

SHL 2310'FSL, 330' FEL

3

2

1

6

T20S
R34E



on map

**DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
CASE RECORDATION
(MASS) Serial Register Page**

Run Time 12:00 PM

Page 1 of ?

Run Date: 02/24/11

01 02-25-1920;041STAT0437;30USC181 NLS-PARCEL2/map.jsp? Total Acres Serial Number
Case Type 318210: O&G EXPLORATORY UNIT Category=BLM&casetype=318210&a 1,920.000 NMNM-- - 070966X
Commodity 459: OIL & GAS L dminregion=NM&id=1866747
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Serial Number: NMNM-- - 070966X

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23 0190S 0330E 025	ALIQ		W2;	CARLSBAD FO	LEA	BUREAU OF LAND MGMT
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06/22/1978	501	REFERENCE NUMBER	UA 14-08-0001-16905	
06/22/1978	515	REFERENCE NUMBER (AFS)	AFS 891-016905-X	
06/22/1978	516	FORMATION	ALL;	
06/22/1978	868	EFFECTIVE DATE	/A/ UNIT AGREEMENT	
02/09/1979	654	AGRMT PRODUCING	INT MRRW 06 PA A #A	
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03/28/1995	421	PLAN OPER/EXPL/DEV FILED	/2/	
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