

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0135
Expires July 31, 1996

RECEIVED

AUG 03 2009
HOBBSS

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an
abandoned well. Use form 3160-3 (APD) for such proposals.

NM-27570

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

NM-103150

8. Well Name and No.

Topacio Federal 28 Com No. 1

9. API Well No.

30-025-34522

10. Field and Pool, or Exploratory Area

Gem; Morrow (G)

11. County or Parish, State

Lea County, NM

SUBMIT IN TRIPLICATE - Other instructions on reverse side

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

Cimarex Energy Co. of Colorado

3a. Address

5215 N. O'Connor Blvd., Ste. 1500; Irving, TX 75039

3b. Phone No. (include area code)

972-401-3111

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

1650 FNL & 1980 FEL

28-19S-33E

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

☒ Notice of Intent

☐ Subsequent Report

☐ Final Abandonment Notice

TYPE OF ACTION

☐ Acidize

☐ Alter Casing

☐ Casing Repair

☐ Change Plans

☐ Convert to Injection

☐ Deepen

☐ Fracture Treat

☐ New Construction

☐ Plug and Abandon

☒ Plug Back

☐ Production (Start/Resume)

☐ Reclamation

☒ Recomplete

☐ Temporarily Abandon

☐ Water Disposal

☐ Water Shut-Off

☐ Well Integrity

☒ Other Plug back and

recomplete horizontally

in Brushy Canyon (Delaware)

13. Describe Proposed or Completed Operation (clearly state all pertinent details, included estimated starting date of any proposed work and approximate duration thereof.

If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones.

Attach the bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Well is a marginal Morrow producer with perfs @ 13212-42.' Cimarex proposes to plug back and recomplete the well horizontally in the Delaware as outlined below:

- Kill well. NU BOP. Set CIBP over Morrow @ 13152' w/ 35' cmt. Cimarex will address additional plugs between Morrow perfs and Delaware at final abandonment.
- Perform squeeze job to provide cement behind 5½" casing. Set CICR @ 7685' and perf 10' of squeeze holes from 7685' to 7695.' Squeeze with 125 sx cmt.
- Perforate Delaware 7613-18', 7625-36' and 7650-60' with 1spf. Acidize and swab test to determine oil cut and productive ability. If economical, move on to next step.
- Mill window from 7495'-7510.' Kick off 4¾" hole at 7505' and land curve at 7815' MD, 7700' TVD. Drill to TD at 10860' MD and 7650' TVD.
- Run 2½" 6.5# L-80 EUE 8rd liner from RSB packer at 7405' to TD at 10860' MD. Liner will be PEAK completion assembly, which requires no cement.
- Fracture treat in several stages as needed through iso-ports separated by iso-packers.

Please see attached C-102, WBD, and preliminary directional survey.

14. I hereby certify that the foregoing is true and correct

Name (Printed/Typed)

Natalie Krueger

Signature

Title

Regulatory

Date

July 22, 2009

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

PETROLEUM ENGINEER

Date

AUG 03 2009

Conditions of Approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on reverse)

DISTRICT I
P. O. Box 1980
Hobbs, NM 88241-1980

State of New Mexico
Energy, Minerals, and Natural Resources Department

Form C-102
Revised 02-10-94
Instructions on back

DISTRICT II
P. O. Drawer DD
Artesia, NM 88211

DISTRICT III
1000 Rio Brazos Rd.
Aztec, NM 87410

DISTRICT IV
P. O. Box 2088
Santa Fe, NM 87507-2088

RECEIVED
AUG 03 2009
HOBBSCOKE

OIL CONSERVATION DIVISION
P. O. Box 2088
Santa Fe, New Mexico 87504-2088

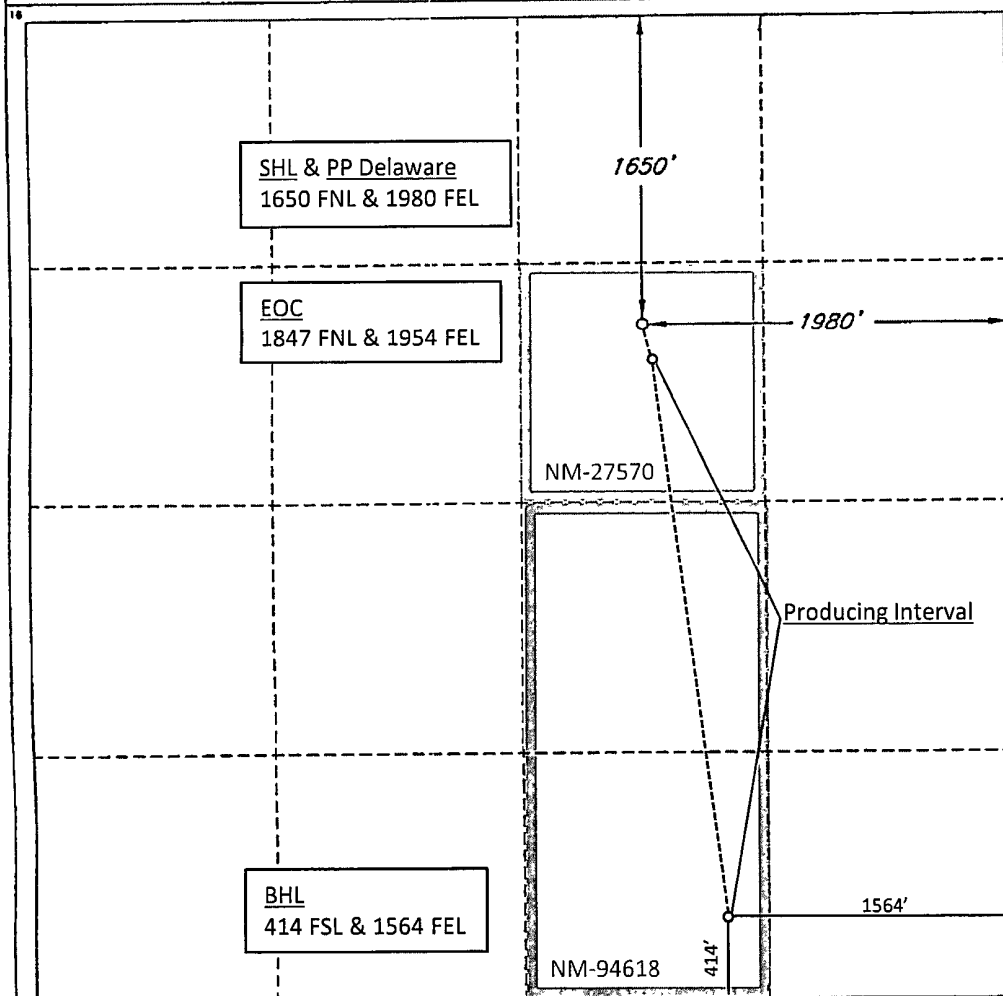
Submit to the Appropriate
District Office
State Lease - 4 copies
Fee Lease - 3 copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number 30-015-33431		2 Pool Code 97354		3 Pool Name Crazy Horse; Delaware					
4 Property Code		5 Property Name TOPACIO FEDERAL '28' COM				6 Well Number 1			
7 OGRID No. 162683		8 Operator Name				9 Elevation 3598'			
10 SURFACE LOCATION									
UL or lot no. G	Section 28	Township 19 SOUTH	Range 33 EAST, N.M.P.M.	Lot Ida	Feet from the 1650'	North/South line NORTH	Feet from the 1980'	East/West line EAST	County LEA
11 BOTTOM HOLE LOCATION IF DIFFERENT FROM SURFACE									
UL or lot no. O	Section 28	Township 19 SOUTH	Range 33 East, N.M.P.M.	Lot Ida	Feet from the 414	North/South line SOUTH	Feet from the 1564	East/West line EAST	County LEA
12 Dedicated Acres 120		13 Joint or Infill		14 Consolidation Code C		15 Order No. NSL Pending			

NO ALLOWABLE WELL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN
CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



OPERATOR CERTIFICATION

I hereby certify that the information
contained herein is true and complete
to the best of my knowledge and belief.

Signature
Zeno Farris
Printed Name
Mgr Operations Administration
Title
July 22, 2009
Date

SURVEYOR CERTIFICATION

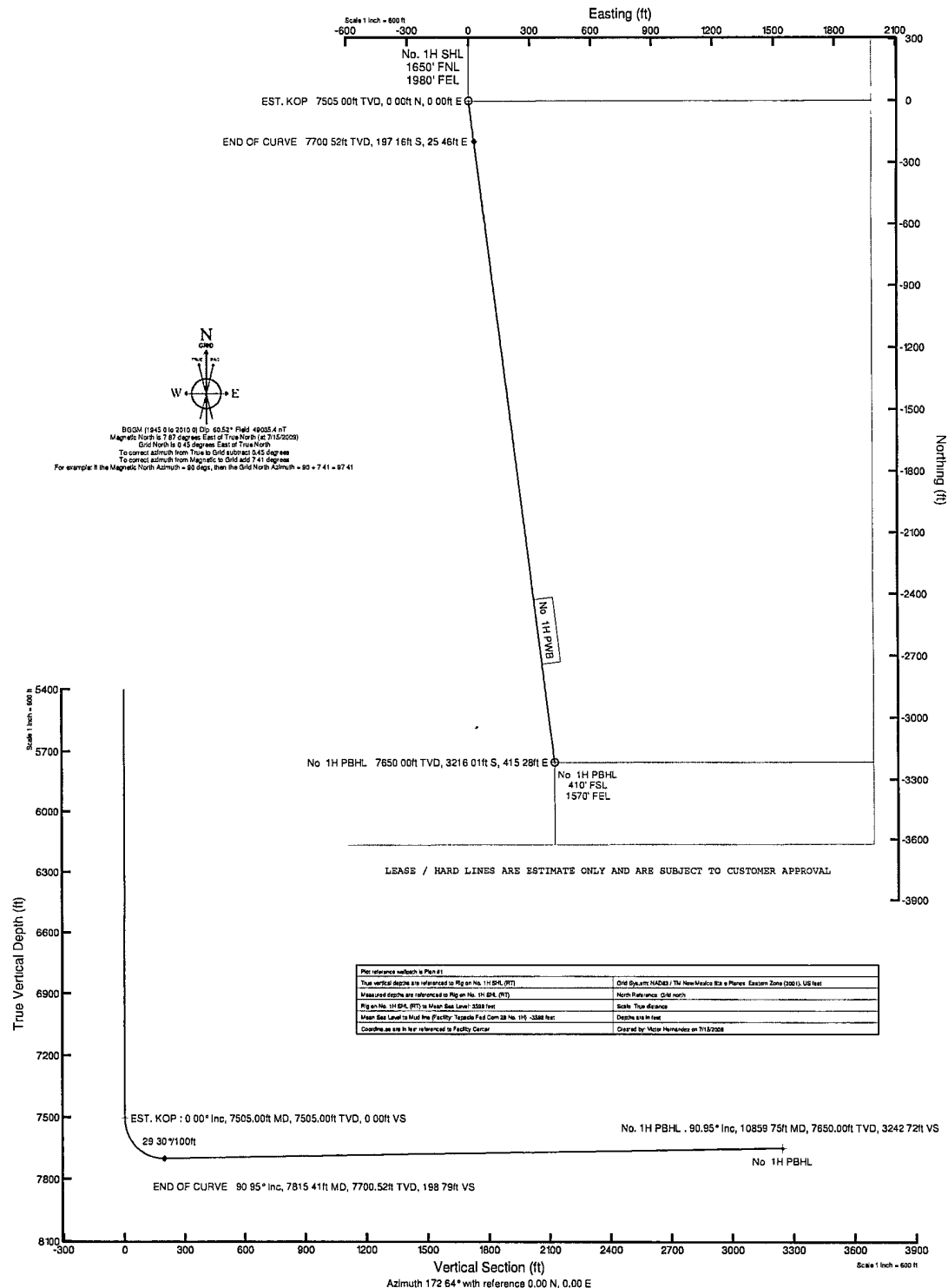
I hereby certify that the well
location shown on this plat was
plotted from field notes of actual
surveys made by me or under
my supervision, and that the
same is true and correct to the
best of my belief.

Date of Survey
August 28, 2009
Signature and Seal of
Professional Surveyor
12123
REGISTERED PROFESSIONAL SURVEYOR
Certificate No.
ROGER M. ROBBINS P.S. #12128
JOB #60200 / 72 NW / V.H.B.



Well Profile Data

Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (%/100ft)	VS (ft)
Tie On	0.00	0.000	172.642	0.00	0.00	0.00	0.00	0.00
EST. KOP	7505.00	0.000	172.642	7505.00	0.00	0.00	0.00	0.00
END OF CURVE	7815.41	90.951	172.642	7700.52	-197.16	25.46	29.30	198.79
No. 1H PWB	10859.75	90.951	172.642	7650.00	-3216.01	415.28	0.00	3242.72





Planned Wellpath Report

Plan #1
Page 1 of 3



INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co.	Slot	No. 1H SHL
Area	Lea County, NM	Well	No. 1H
Field	(Topacio) Sec 28, T19S, R33E	Wellbore	No. 1H PWB
Facility	Topacio Fed Com 28 No. 1H		

REPORT SETUP INFORMATION

Projection System	NAD83 / TM New Mexico State Planes, Eastern Zone (3001), US feet	Software System	WellArchitect® 2.0
North Reference	Grid	User	Victor Hernandez
Scale	0.999986	Report Generated	7/15/2009 at 4:41:59 PM
Convergence at slot	0.45° 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	801210.36	544308.79	32°29'36.756"N	103°29'25.686"W
Facility Reference Pt			801210.36	544308.79	32°29'36.756"N	103°29'25.686"W
Field Reference Pt			801210.36	544308.79	32°29'36.757"N	103°29'25.686"W

WELLPATH DATUM

Calculation method	Minimum curvature	Rig on No. 1H SHL (RT) to Facility Vertical Datum	0.00ft
Horizontal Reference Pt	Facility Center	Rig on No. 1H SHL (RT) to Mean Sea Level	3598.00ft
Vertical Reference Pt	Rig on No. 1H SHL (RT)	Facility Vertical Datum 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	172.64°



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Page 2 of 3



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Field	(Topacio) Sec 28, T19S, R33E	Wellbore	No. 1H PWB
Facility	Topacio Fed Com 28 No. 1H		

WELLPATH DATA (37 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
0.00	0.000	172.642	0.00	0.00	0.00	0.00	0.00	Tie On
7505.00	0.000	172.642	7505.00	0.00	0.00	0.00	0.00	EST. KOP
7605.00†	29.300	172.642	7600.70	25.02	-24.81	3.20	29.30	
7705.00†	58.600	172.642	7671.91	93.67	-92.89	12.00	29.30	
7805.00†	87.900	172.642	7700.42	188.38	-186.83	24.13	29.30	
7815.41	90.951	172.642	7700.52	198.79	-197.16	25.46	29.30	END OF CURVE
7905.00†	90.951	172.642	7699.04	288.37	-285.99	36.93	0.00	
8005.00†	90.951	172.642	7697.38	388.36	-385.16	49.74	0.00	
8105.00†	90.951	172.642	7695.72	488.34	-484.32	62.54	0.00	
8205.00†	90.951	172.642	7694.06	588.33	-583.48	75.34	0.00	
8305.00†	90.951	172.642	7692.40	688.31	-682.65	88.15	0.00	
8405.00†	90.951	172.642	7690.74	788.30	-781.81	100.95	0.00	
8505.00†	90.951	172.642	7689.08	888.29	-880.97	113.76	0.00	
8605.00†	90.951	172.642	7687.42	988.27	-980.13	126.56	0.00	
8705.00†	90.951	172.642	7685.76	1088.26	-1079.30	139.37	0.00	
8805.00†	90.951	172.642	7684.10	1188.25	-1178.46	152.17	0.00	
8905.00†	90.951	172.642	7682.44	1288.23	-1277.62	164.98	0.00	
9005.00†	90.951	172.642	7680.78	1388.22	-1376.79	177.78	0.00	
9105.00†	90.951	172.642	7679.12	1488.20	-1475.95	190.59	0.00	
9205.00†	90.951	172.642	7677.46	1588.19	-1575.11	203.39	0.00	
9305.00†	90.951	172.642	7675.80	1688.18	-1674.28	216.20	0.00	
9405.00†	90.951	172.642	7674.14	1788.16	-1773.44	229.00	0.00	
9505.00†	90.951	172.642	7672.48	1888.15	-1872.60	241.81	0.00	
9605.00†	90.951	172.642	7670.82	1988.13	-1971.76	254.61	0.00	
9705.00†	90.951	172.642	7669.16	2088.12	-2070.93	267.42	0.00	
9805.00†	90.951	172.642	7667.50	2188.11	-2170.09	280.22	0.00	
9905.00†	90.951	172.642	7665.84	2288.09	-2269.25	293.03	0.00	
10005.00†	90.951	172.642	7664.18	2388.08	-2368.42	305.83	0.00	
10105.00†	90.951	172.642	7662.53	2488.07	-2467.58	318.64	0.00	
10205.00†	90.951	172.642	7660.87	2588.05	-2566.74	331.44	0.00	



Planned Wellpath Report

Plan #1
Page 3 of 3



INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co.	Slot	No. 1H SHL
Area	Lea County, NM	Well	No. 1H
Field	(Topacio) Sec 28, T19S, R33E	Wellbore	No. 1H PWB
Facility	Topacio Fed Com 28 No. 1H		

WELLPATH DATA (37 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
10305.00†	90.951	172.642	7659.21	2688.04	-2665.90	344.25	0.00	
10405.00†	90.951	172.642	7657.55	2788.02	-2765.07	357.05	0.00	
10505.00†	90.951	172.642	7655.89	2888.01	-2864.23	369.86	0.00	
10605.00†	90.951	172.642	7654.23	2988.00	-2963.39	382.66	0.00	
10705.00†	90.951	172.642	7652.57	3087.98	-3062.56	395.47	0.00	
10805.00†	90.951	172.642	7650.91	3187.97	-3161.72	408.27	0.00	
10859.75	90.951	172.642	7650.00 ¹	3242.72	-3216.01	415.28	0.00	No. 1H PBHL

WELL & CASING SECTIONS Ref Wellbore: No. 1H PWB Ref Wellpath: Plan #1

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
1.75in Open Hole	7505.00	10859.75	3354.75	7505.00	7650.00	0.00	0.00	-3216.01	415.28

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	Shape
No. 1H PBHL	10859.75	7650.00	-3216.01	415.28	801625.64	541092.83	32°29'04.903"N	103°29'21.134"W	point

SURVEY PROGRAM Ref Wellbore: No. 1H PWB Ref Wellpath: Plan #1

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	10859.75	NaviTrak (Standard)		No. 1H PWB

Cimarex Energy Co. of Colorado

Topacio Federal 28 Com No. 1

SPUDDED 02-04-99

API 30-025-34522

CURRENT CONDITION

N. Krueger 07-17-09

KB:
CH:
GL: 3598' GR

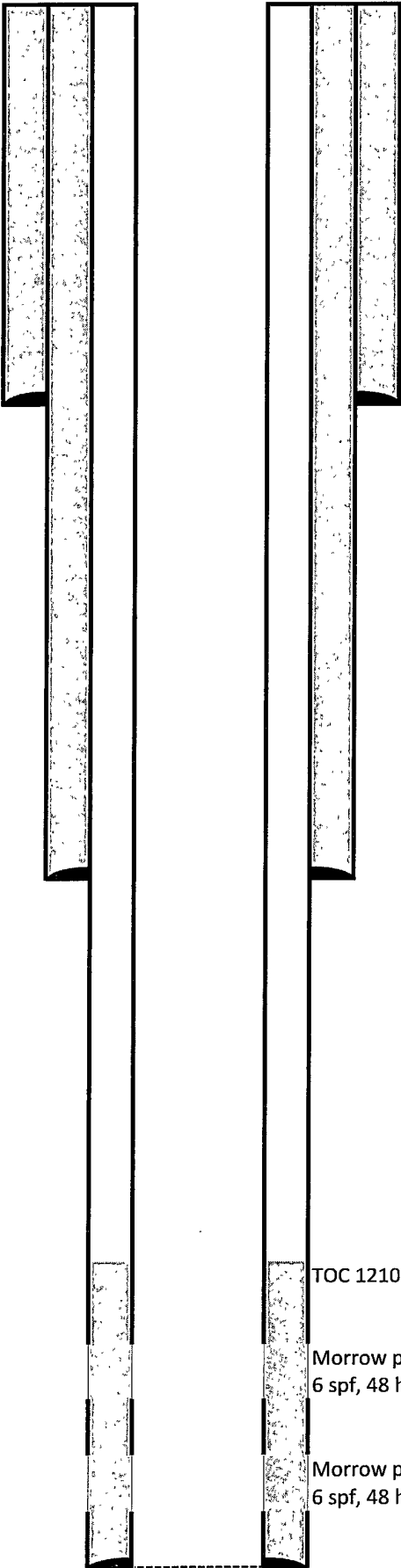
1650 FNL & 1980 FEL
28-19S-33E
Unit Letter G
Lea County, NM

Casing Strings:

13 3/8" 48# H-40 (17 1/2" hole)
360 sx
TOC @ surf

8 5/8" 32# J-55, S-80 (11" hole)
1500 sx
TOC @ Surf

5 1/2" 17# L-80/P-110 (7 7/8" hole)
300 sx
TOC @ 12100' by CBL



TOC 12100' by CBL

Morrow perfs 13212-20'
6 spf, 48 holes

Morrow perfs 13234-42'
6 spf, 48 holes

TD 13722'
PBD 13255'