

Design Plan, Operating Plan and Maintenance Plan, and Closure Plan for the OCD form C-

144 North Lea 9 Fed #2H

Design Plan:

Fluid and cuttings coming from drilling operations will pass over the shale shaker with the cuttings going to the haul off bin and the cleaned fluid returning to the working steel pits.

Equipment Includes:

- 1-670bbl steel working pit
- 2-100bbl steel working suction pits
- 2-500bbl steel tanks
- 2-20yd³ steel haul off bins
- 2-pumps (HHF-1600)
- 2-Shale shakers
- 1-Centrifuge
- 1-Desilter/Desander

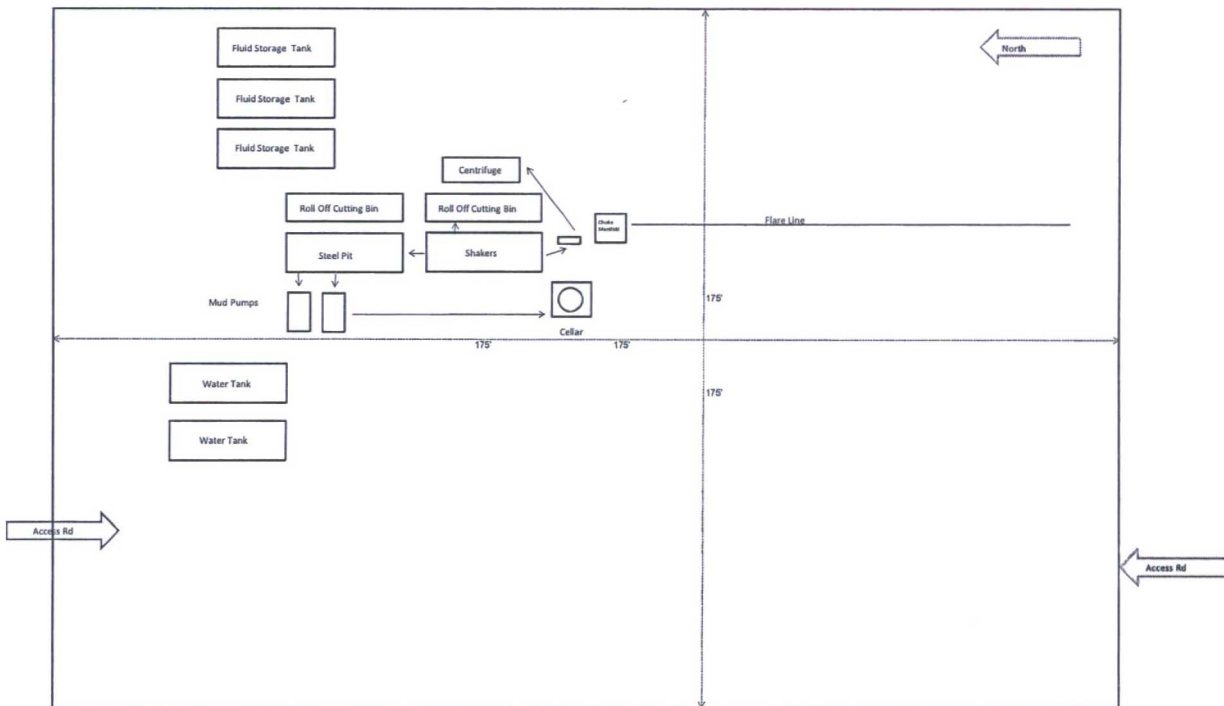
Operating and Maintenance Plan:

Inspection to occur every tour for proper operation of system and individual components. If any problems are found they will be repaired and/or corrected immediately.

Closure Plan:

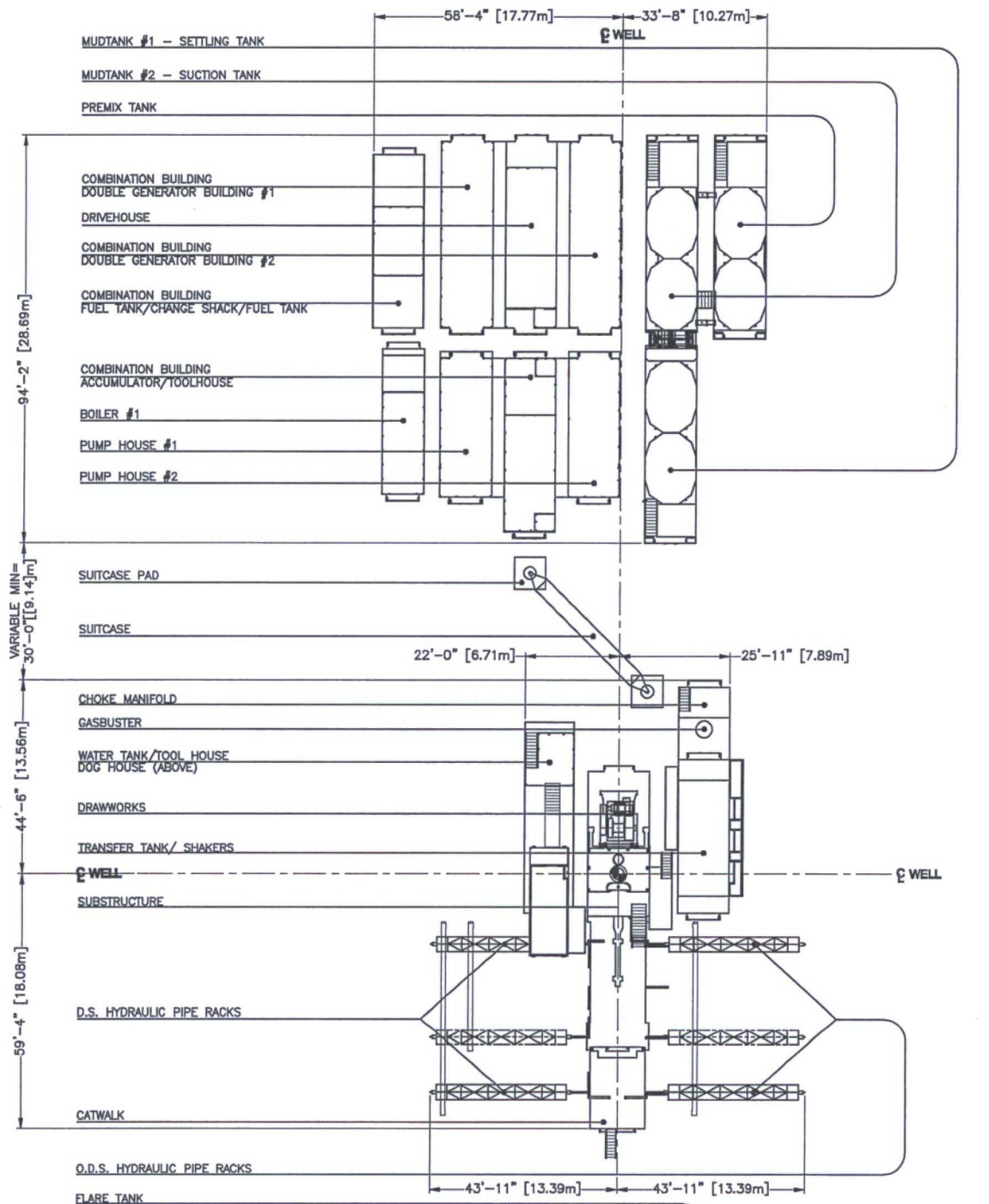
All haul off bins containing cuttings will be removed from location and hauled to Controlled Recovery, Inc. (NM-01-0006) disposal site located near mile marker 66 on Highway 62/180.

Closed Loop Diagram



RIG LAYOUT

RIG 827SSE



MINIMUM LOCATION SIZE FROM HOLE CENTER

TO CROWN END	180'-6" (55m)
TO BACK OF RIG	178'-0" (54m)
TO DOG HOUSE SIDE	98'-6" (30m)
TO SUMP SIDE	65'-6" (20m)

WELL

11 O'CLOCK
164'-0" (50m)
FROM
WELL CENTER

DATE: FEBRUARY 5, 2009
DWG NO.: 851-825-12
APPROVED BY ENGINEERING

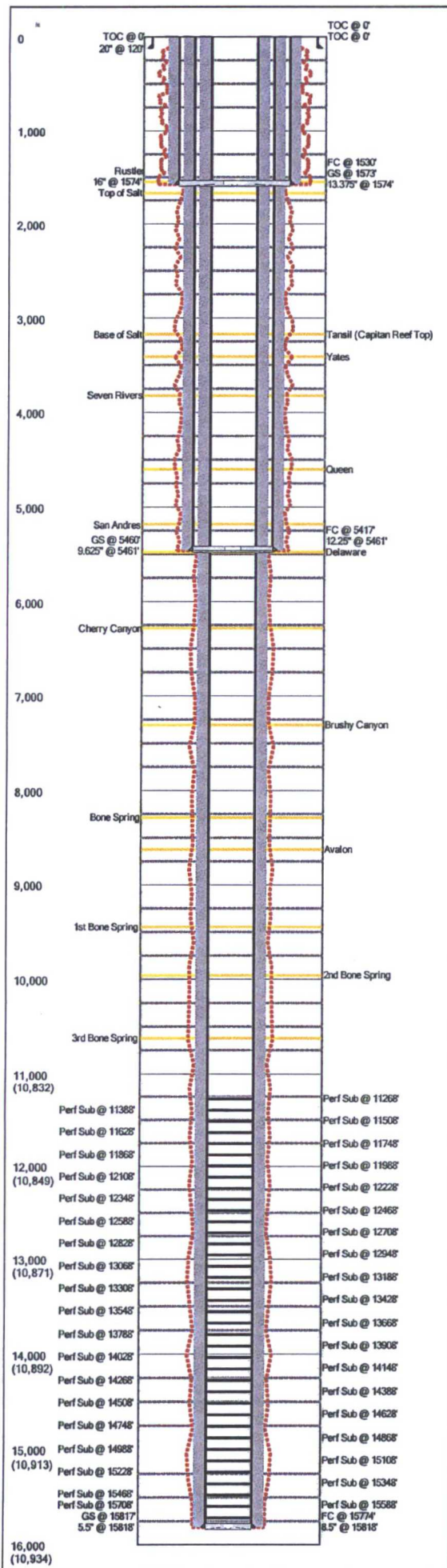
0'-0" 16'-6" 33'-0" 49'-6"
(0m) (5m) (10m) (15m)



PRECISION DRILLING

CALGARY, ALBERTA, CANADA

Last Updated: 10/14/2013 11:41 AM



Field Name	Lease Name	Well No.
North Lea	North Lea 9 Fed Com	2H
County, State	API No.	
Lea, New Mexico	00012345678932	
Version	Version Tag	
1	Planning	
G.L. (ft)	K.B. (ft)	Sec.
3,630.4	3,652.4	9
Township/Block		Range/Survey
20S		34E
Operator	Well Status	Latitude
Read and Stevens	Planning	32.595440
Footage Call		Longitude
200' FSL & 1670' FEL From Section		103.562030
PropNum	Spud Date	Comp. Date
Additional Information		
AFE No.:		
Permit No.:		
Read and Stevens well No.: 10730		
Lease No.: NM-64194		
Bond No.: NM-2310		
Prepared By	Updated By	Last Updated
Steve Morris	Steve Morris	10/14/2013 11:41 AM

Hole Summary

Date	O.D. (in)	Top (MD ft)	Bottom (MD ft)	Comments
	16.000	120	1,574	
	12.250	1,574	5,461	
	8.500	5,461	15,818	

Tubular Summary

Date	Description	O.D. (in)	Wt (lb/ft)	Grade	Top (MD ft)	Bottom (MD ft)
	Conductor Casing	20.000			0	120
	Surface Casing	13.375	54.50	J-55	0	1,574
	Intermediate Casing	9.625	40.00	L-80	0	5,461
	Production Casing	5.500	17.00	P-110	0	15,818

Casing Cement Summary

Date	No. Sx	Csg. O.D. (in)	Top (MD ft)	Bottom (MD ft)	Comments
	830	13.375	0	1,574	
	1,490	9.625	0	5,461	
	2,850	5.500	0	15,818	

Tools/Problems Summary

Date	Tool Type	O.D. (in)	I.D. (in)	Top (MD ft)	Bottom (MD ft)
	FC	13.375	0.000	1,530	0
	GS	13.375	0.000	1,573	0
	FC	9.625	0.000	5,417	0
	GS	9.625	0.000	5,460	0
	Perf Sub	5.500	0.000	11,268	11,284
	Perf Sub	5.500	0.000	11,388	11,404
	Perf Sub	5.500	0.000	11,508	11,524
	Perf Sub	5.500	0.000	11,628	11,644
	Perf Sub	5.500	0.000	11,748	11,764
	Perf Sub	5.500	0.000	11,868	11,884
	Perf Sub	5.500	0.000	11,988	12,004
	Perf Sub	5.500	0.000	12,108	12,124
	Perf Sub	5.500	0.000	12,228	12,244
	Perf Sub	5.500	0.000	12,348	12,364
	Perf Sub	5.500	0.000	12,468	12,484
	Perf Sub	5.500	0.000	12,588	12,604
	Perf Sub	5.500	0.000	12,708	12,724
	Perf Sub	5.500	0.000	12,828	12,844
	Perf Sub	5.500	0.000	12,948	12,964
	Perf Sub	5.500	0.000	13,068	13,084
	Perf Sub	5.500	0.000	13,188	13,204
	Perf Sub	5.500	0.000	13,308	13,324
	Perf Sub	5.500	0.000	13,428	13,444
	Perf Sub	5.500	0.000	13,548	13,564
	Perf Sub	5.500	0.000	13,668	13,684
	Perf Sub	5.500	0.000	13,788	13,804
	Perf Sub	5.500	0.000	13,908	13,924
	Perf Sub	5.500	0.000	14,028	14,044
	Perf Sub	5.500	0.000	14,148	14,164
	Perf Sub	5.500	0.000	14,268	14,284

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Date	Tool Type	O.D. (in)	I.D. (in)	Top (MD ft)	Bottom (MD ft)
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	Perf Sub	5.500	0.000	15,468	15,484
	Perf Sub	5.500	0.000	15,588	15,604
	Perf Sub	5.500	0.000	15,708	15,724
	FC	5.500	0.000	15,774	0
	GS	5.500	0.000	15,817	0

Formation Tops Summary

Formation	Top (MD ft)	Comments
Rustler	1,549	
Top of Salt	1,670	
Tansil (Capitan Reef Top)	3,177	
Base of Salt	3,177	
Yates	3,413	
Seven Rivers	3,825	
Queen	4,601	
San Andres	5,183	
Delaware	5,481	
Cherry Canyon	6,286	
Brushy Canyon	7,305	
Bone Spring	8,289	
Avalon	8,624	
1st Bone Spring	9,447	
2nd Bone Spring	9,959	
3rd Bone Spring	10,617	

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Field Name		Lease Name		Well No.	County, State		API No.	
North Lea		North Lea 9 Fed Com		2H	Lea, New Mexico		00012345678932	
Version	Version Tag			Spud Date	Comp. Date	G.L. (ft)	K.B. (ft)	
1	Planning					3,630.4	3,652.4	
Sec.	Township/Block	Range/Survey		Footage Call				
9	20S	34E		200' FSL & 1670' FEL From Section				
Operator				Well Status		Latitude	Longitude	PropNum
Read and Stevens				Planning		32.595440	103.562030	
Last Updated			Prepared By			Updated By		
10/14/2013 11:41 AM			Steve Morris			Steve Morris		
Additional Information								
AFE No.: Permit No.: Read and Stevens well No.: 10730 Lease No.: NM-64194 Bond No.: NM-2310								

Hole Summary

Date	O.D. (in)	Top (MD ft)	Bottom (MD ft)	Comments
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	12.250	1,574	5,461	
	8.500	5,461	15,818	

Tubular Summary

Date	Description	No. Jts	O.D. (in)	Wt (lb/ft)	Grade	Top (MD ft)	Bottom (MD ft)	Comments
	Conductor Casing		20.000			0	120	
	Surface Casing		13.375	54.50	J-55	0	1,574	
	Intermediate Casing		9.625	40.00	L-80	0	5,461	
	Production Casing		5.500	17.00	P-110	0	15,818	

Casing Cement Summary

Date	No. Sx	Csg. O.D. (in)	Top (MD ft)	Bottom (MD ft)	Description	Comments
	830	13.375	0	1,574	Lead 13.5ppg Yield 1.73cu ft/sk Class C Cement + 1% bwoc Calcium Chloride + 0.25 lbs/sack Cello Flake + 4% bwocBentonite II Tail 14.8ppg Yield 1.35 cu ft/sk Class C Cement + 2% bwoc Calcium Chloride + 0.25 lbs/sack Cello Flake	
	1,490	9.625	0	5,461	Lead 12.6ppg Yield 1.73cu ft/sk (60:40) Poz (Fly Ash):Class C Cement + 0.005 lbs/sack Static Free + 5% bwow SodiumChloride + 0.125 lbs/sack Cello Flake + 3 lbs/sackLCM-1 + 0.25% bwoc FL -52 + 0.005 gps FP-6L + 1% bwoc Sodium MetasilicateTail 14.8ppg Yield 1.33cu ft/sk Class C Cement + 0.005 lbs/sack Static Free + 0.1% bwoc R-3 + 0.125 lbs/sack Cello Flake	
	2,850	5.500	0	15,818	13ppg Yield 1.64cu ft/sk (15:61:11) Poz (Fly Ash):Class C Cement:CSE-2 + 0.4% bwoc FL- 25 + 0.4% bwoc FL-52 + 0.5% bwoc BA-10A + 0.1% bwoc R-21	

Tools/Problems Summary

Date	Tool Type	O.D. (in)	I.D. (in)	Top (MD ft)	Bottom (MD ft)	Description	Comments
	Float Collar	13.375	0.000	1,530	0		
	Guide Shoe	13.375	0.000	1,573	0		
	Float Collar	9.625	0.000	5,417	0		
	Guide Shoe	9.625	0.000	5,460	0		
	Perforated Sub	5.500	0.000	11,268	11,284		Stage 38
	Perforated Sub	5.500	0.000	11,388	11,404		Stage 37
	Perforated Sub	5.500	0.000	11,508	11,524		Stage 36
	Perforated Sub	5.500	0.000	11,628	11,644		Stage 35
	Perforated Sub	5.500	0.000	11,748	11,764		Stage 34
	Perforated Sub	5.500	0.000	11,868	11,884		Stage 33
	Perforated Sub	5.500	0.000	11,988	12,004		Stage 33
	Perforated Sub	5.500	0.000	12,108	12,124		Stage 32
	Perforated Sub	5.500	0.000	12,228	12,244		Stage 31
	Perforated Sub	5.500	0.000	12,348	12,364		Stage 30
	Perforated Sub	5.500	0.000	12,468	12,484		Stage 29
	Perforated Sub	5.500	0.000	12,588	12,604		Stage 28
	Perforated Sub	5.500	0.000	12,708	12,724		Stage 27
	Perforated Sub	5.500	0.000	12,828	12,844		Stage 25
	Perforated Sub	5.500	0.000	12,948	12,964		Stage 24
	Perforated Sub	5.500	0.000	13,068	13,084		Stage 23
	Perforated Sub	5.500	0.000	13,188	13,204		Stage 22
	Perforated Sub	5.500	0.000	13,308	13,324		Stage 21

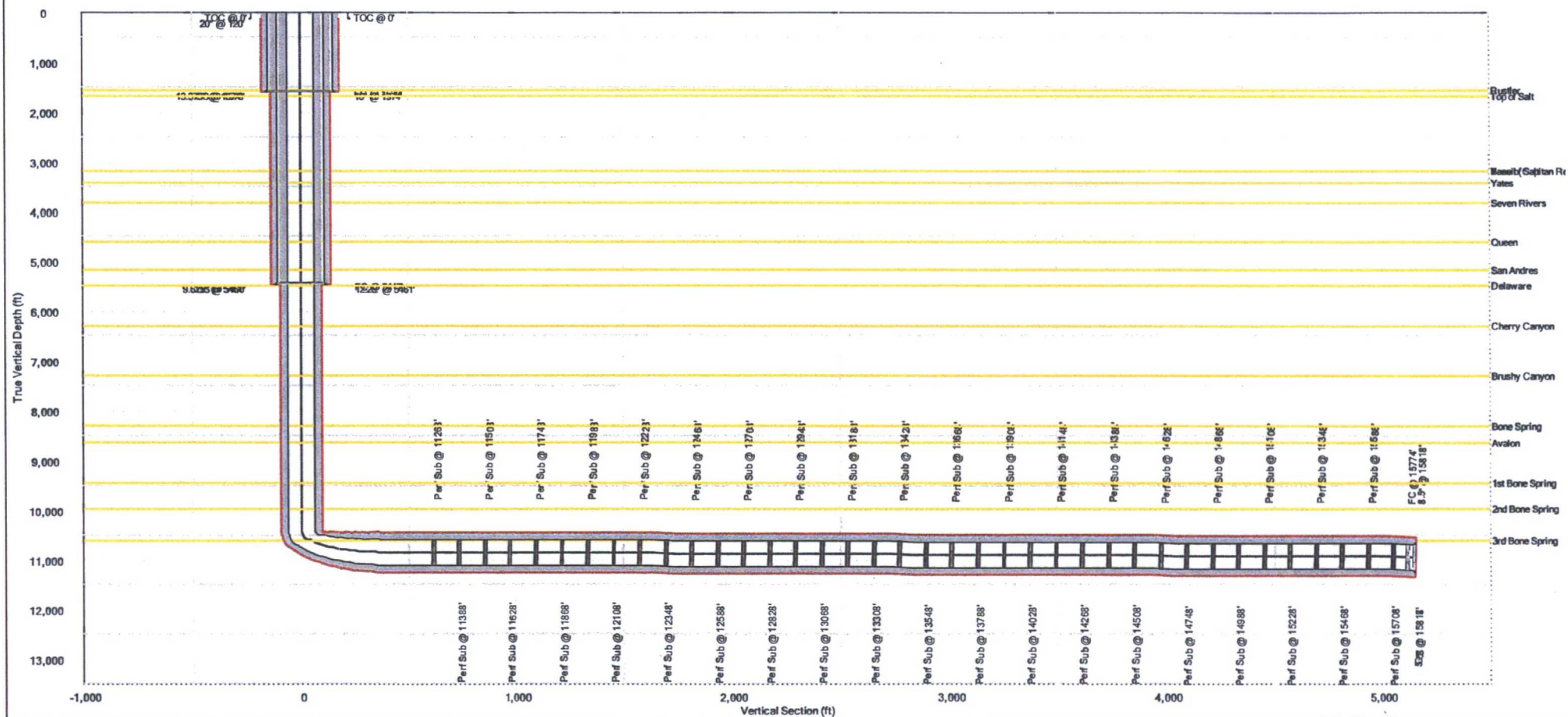
Last Updated: 10/14/2013 11:41 AM

Date	Tool Type	O.D. (in)	I.D. (in)	Top (MD ft)	Bottom (MD ft)	Description	Comments
	Perforated Sub	5,500	0,000	13,428	13,444		Stage 20
	Perforated Sub	5,500	0,000	13,548	13,564		Stage 19
	Perforated Sub	5,500	0,000	13,668	13,684		Stage 18
	Perforated Sub	5,500	0,000	13,788	13,804		Stage 17
	Perforated Sub	5,500	0,000	13,908	13,924		Stage 16
	Perforated Sub	5,500	0,000	14,028	14,044		Stage 15
	Perforated Sub	5,500	0,000	14,148	14,164		Stage 14
	Perforated Sub	5,500	0,000	14,268	14,284		Stage 13
	Perforated Sub	5,500	0,000	14,388	14,404		Stage 12
	Perforated Sub	5,500	0,000	14,508	14,524		Stage 11
	Perforated Sub	5,500	0,000	14,628	14,644		Stage 10
	Perforated Sub	5,500	0,000	14,748	14,764		Stage 9
	Perforated Sub	5,500	0,000	14,868	14,884		Stage 8
	Perforated Sub	5,500	0,000	14,988	15,004		Stage 7
	Perforated Sub	5,500	0,000	15,108	15,124		Stage 6
	Perforated Sub	5,500	0,000	15,228	15,244		Stage 5
	Perforated Sub	5,500	0,000	15,348	15,364		Stage 4
	Perforated Sub	5,500	0,000	15,468	15,484		Stage 3
	Perforated Sub	5,500	0,000	15,588	15,604		Stage 2
	Perforated Sub	5,500	0,000	15,708	15,724	Opit-Port	Stage 1
	Float Collar	5,500	0,000	15,774	0		
	Guide Shoe	5,500	0,000	15,817	0		

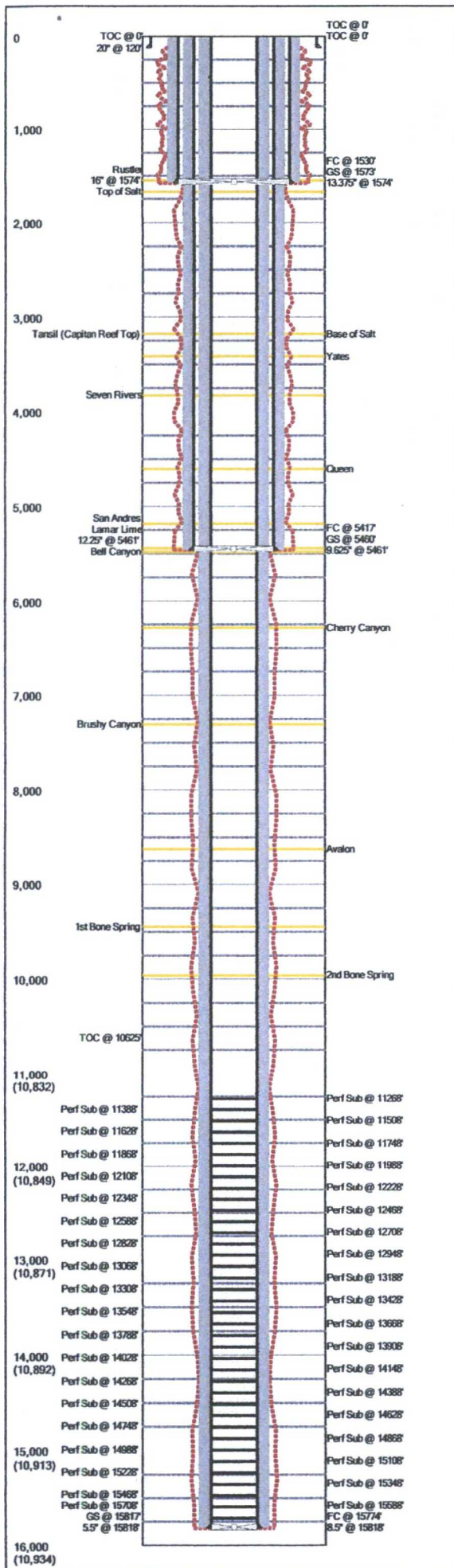
Formation Top Summary

Formation Name	Top (MD ft)	Comments
Rustler	1,549	
Top of Salt	1,670	
Tansil (Capitan Reef Top)	3,177	
Base of Salt	3,177	
Yates	3,413	
Seven Rivers	3,825	
Queen	4,601	
San Andres	5,183	
Delaware	5,481	
Cherry Canyon	6,286	
Brushy Canyon	7,305	
Bone Spring	8,289	
Avalon	8,624	
1st Bone Spring	9,447	
2nd Bone Spring	9,959	
3rd Bone Spring	10,617	

Field Name		Lease Name		Well No.	County, State		API No.		Version	Version Tag		Spud Date	Comp. Date	G.L. (ft)	K.B. (ft)
North Lea		North Lea 9 Fed Com		2H	Lea, New Mexico		00012345678932		1	Planning				3,630.4	3,652.4
Sec.	Township/Block	Range/Survey	Footage Call			Latitude	Longitude	Well Status		PropNum		Operator			
9	20S	34E	200' FSL & 1670' FEL From Section			32.595440	103.562030	Planning				Read and Stevens			
Last Updated		Prepared By		Updated By		Additional Information									
10/14/13 11:41:14 AM		Steve Morris		Steve Morris		AFE No.:									



Last Updated: 1/6/2014 08:47 AM



Field Name	Lease Name	Well No.
North Lea	North Lea 9 Fed Com	2H
County, State	API No.	
Lea, New Mexico	00012345678932	
Version	Version Tag	
1	Planning	
G.L. (ft)	K.B. (ft)	Sec.
3,630.4	3,652.4	9
Township/Block	Range/Survey	
20S	34E	
Operator	Well Status	Latitude
Read and Stevens	Planning	32.595440
Longitude		103.562030
Footage Call		
200' FSL & 1670' FEL From Section		
PropNum	Spud Date	Comp. Date
Additional Information		
AFE No.:		
Permit No.:		
Read and Stevens well No.: 10730		
Lease No.: NM-64194		
Bond No.: NM-2310		
Prepared By	Updated By	Last Updated
Steve Morris	Steve Morris	1/6/2014 8:47 AM

Hole Summary

Date	O.D. (in)	Top (MD ft)	Bottom (MD ft)	Comments
	16.000	120	1,574	
	12.250	1,574	5,461	
	8.500	5,461	15,818	

Tubular Summary

Date	Description	O.D. (in)	Wt (lb/ft)	Grade	Top (MD ft)	Bottom (MD ft)
	Conductor Casing	20.000			0	120
	Surface Casing	13.375	54.50	J-55	0	1,574
	Intermediate Casing	9.625	40.00	L-80	0	5,461
	Production Casing	5.500	17.00	P-110	0	15,818

Casing Cement Summary

Date	No. Sx	Csg. O.D. (in)	Top (MD ft)	Bottom (MD ft)	Comments
	827	13.375	0	1,574	
	1,488	9.625	0	5,461	
	1,657	5.500	0	10,625	
	1,194	5.500	10,625	15,818	

Tools/Problems Summary

Date	Tool Type	O.D. (in)	I.D. (in)	Top (MD ft)	Bottom (MD ft)
	FC	13.375	0.000	1,530	0
	GS	13.375	0.000	1,573	0
	FC	9.625	0.000	5,417	0
	GS	9.625	0.000	5,460	0
	Perf Sub	5.500	0.000	11,268	11,284
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Lamar Lime	5,441	
Bell Canyon	5,481	
Cherry Canyon	6,286	
Brushy Canyon	7,305	
Avalon	8,624	Hydrocarbon
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Last Updated: 1/6/2014 08:47 AM

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Operator				Well Status	Latitude	Longitude	PropNum	
Read and Stevens				Planning	32.595440	103.562030		
Last Updated		Prepared By			Updated By			
01/06/2014 8:47 AM		Steve Morris			Steve Morris			
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	1,488	9.625	0	5,461	Lead 12.6ppg Yield 1.73cu ft/sk (60:40) Poz (Fly Ash):Class C Cement + 0.005 lbs/sack Static Free + 5% bwow SodiumChloride + 0.125 lbs/sack Cello Flake + 3 lbs/sackLCM-1 + 0.25% bwoc FL -52 + 0.005 gps FP-6L + 1% bwoc Sodium MetasilicateTail 14.8ppg Yield 1.33cu ft/sk Class C Cement + 0.005 lbs/sack Static Free + 0.1% bwoc R-3 + 0.125 lbs/sack Cello Flake	
	1,657	5.500	0	10,625	11.9ppg Yield 2.38cuft/skClass H (50:50) + Poz (Fly Ash) + 10% bwoc Bentonite II + 5% bwow Sodium Chloride + 5 lbs/sack LCM-1 + 0.005 lbs/sack Static Free + 0.005 gps FP-6L	
	1,194	5.500	10,625	15,818	13ppg Yield 1.64cu ft/sk (15:61:11) Poz (Fly Ash):Class C Cement:CSE-2 + 0.4% bwoc FL- 25 + 0.4% bwoc FL-52 + 0.5% bwoc BA-10A + 0.1% bwoc R-21	

Tools/Problems Summary

Date	Tool Type	O.D. (in)	I.D. (in)	Top (MD ft)	Bottom (MD ft)	Description	Comments
	Float Collar	13.375	0.000	1,530	0		
	Guide Shoe	13.375	0.000	1,573	0		
	Float Collar	9.625	0.000	5,417	0		
	Guide Shoe	9.625	0.000	5,460	0		
	Perforated Sub	5.500	0.000	11,268	11,284		Stage 38
	Perforated Sub	5.500	0.000	11,388	11,404		Stage 37
	Perforated Sub	5.500	0.000	11,508	11,524		Stage 36
	Perforated Sub	5.500	0.000	11,628	11,644		Stage 35
	Perforated Sub	5.500	0.000	11,748	11,764		Stage 34
	Perforated Sub	5.500	0.000	11,868	11,884		Stage 33
	Perforated Sub	5.500	0.000	11,988	12,004		Stage 33
	Perforated Sub	5.500	0.000	12,108	12,124		Stage 32
	Perforated Sub	5.500	0.000	12,228	12,244		Stage 31
	Perforated Sub	5.500	0.000	12,348	12,364		Stage 30
	Perforated Sub	5.500	0.000	12,468	12,484		Stage 29
	Perforated Sub	5.500	0.000	12,588	12,604		Stage 28
	Perforated Sub	5.500	0.000	12,708	12,724		Stage 27

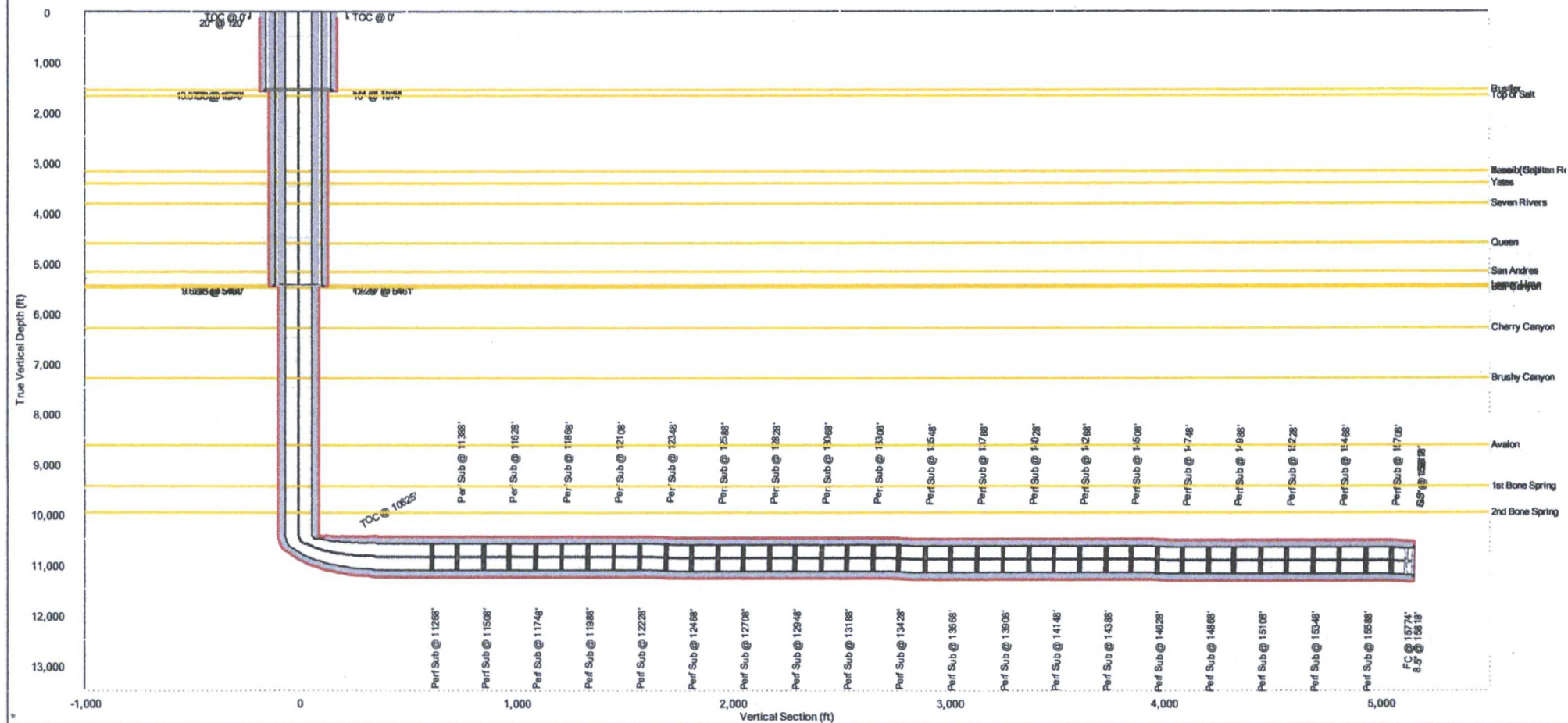
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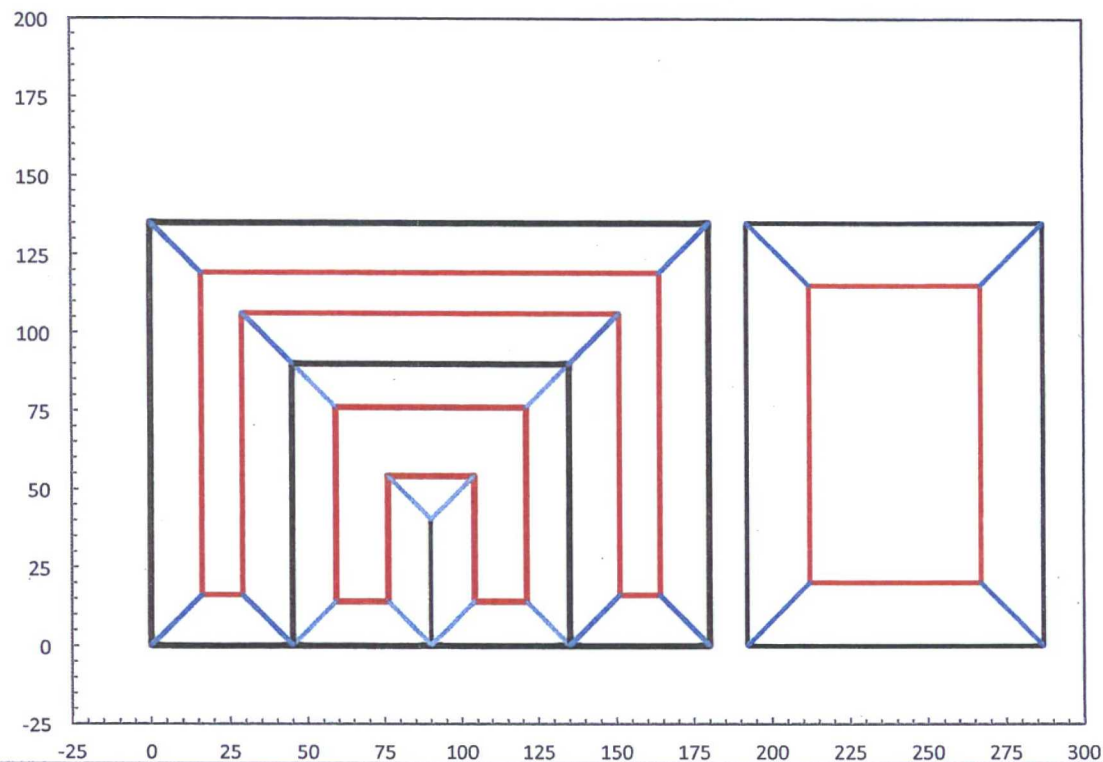
Date	Tool Type	O.D. (in)	I.D. (in)	Top (MD ft)	Bottom (MD ft)	Description	Comments
	Perforated Sub	5.500	0.000	12,828	12,844		Stage 25
	Perforated Sub	5.500	0.000	12,948	12,964		Stage 24
	Perforated Sub	5.500	0.000	13,068	13,084		Stage 23
	Perforated Sub	5.500	0.000	13,188	13,204		Stage 22
	Perforated Sub	5.500	0.000	13,308	13,324		Stage 21
	Perforated Sub	5.500	0.000	13,428	13,444		Stage 20
	Perforated Sub	5.500	0.000	13,548	13,564		Stage 19
	Perforated Sub	5.500	0.000	13,668	13,684		Stage 18
	Perforated Sub	5.500	0.000	13,788	13,804		Stage 17
	Perforated Sub	5.500	0.000	13,908	13,924		Stage 16
	Perforated Sub	5.500	0.000	14,028	14,044		Stage 15
	Perforated Sub	5.500	0.000	14,148	14,164		Stage 14
	Perforated Sub	5.500	0.000	14,268	14,284		Stage 13
	Perforated Sub	5.500	0.000	14,388	14,404		Stage 12
	Perforated Sub	5.500	0.000	14,508	14,524		Stage 11
	Perforated Sub	5.500	0.000	14,628	14,644		Stage 10
	Perforated Sub	5.500	0.000	14,748	14,764		Stage 9
	Perforated Sub	5.500	0.000	14,868	14,884		Stage 8
	Perforated Sub	5.500	0.000	14,988	15,004		Stage 7
	Perforated Sub	5.500	0.000	15,108	15,124		Stage 6
	Perforated Sub	5.500	0.000	15,228	15,244		Stage 5
	Perforated Sub	5.500	0.000	15,348	15,364		Stage 4
	Perforated Sub	5.500	0.000	15,468	15,484		Stage 3
	Perforated Sub	5.500	0.000	15,588	15,604		Stage 2
	Perforated Sub	5.500	0.000	15,708	15,724	Opit-Port	Stage 1
	Float Collar	5.500	0.000	15,774	0		
	Guide Shoe	5.500	0.000	15,817	0		

Formation Top Summary

Formation Name	Top (MD ft)	Comments
Rustler	1,549	
Top of Salt	1,670	
Base of Salt	3,177	
Tansil (Capitan Reef Top)	3,177	Possible Fresh Water
Yates	3,413	
Seven Rivers	3,825	
Queen	4,601	
San Andres	5,183	
Lamar Lime	5,441	
Bell Canyon	5,481	
Cherry Canyon	6,286	
Brushy Canyon	7,305	
Avalon	8,624	Hydrocarbon
1st Bone Spring	9,447	Hydrocarbon
2nd Bone Spring	9,959	Hydrocarbon

Field Name		Lease Name		Well No.	County, State		API No.		Version	Version Tag		Spud Date	Comp. Date	G.L. (ft)	K.B. (ft)
North Lea		North Lea 9 Fed Com		2H	Lea, New Mexico		00012345678932		1	Planning				3,630.4	3,652.4
Sec.	Township/Block		Range/Survey	Footage Call		Latitude		Longitude		Well Status		PropNum		Operator	
9	20S		34E	200' FSL & 1670' FEL From Section		32.595440		103.562030		Planning				Read and Stevens	
Last Updated		Prepared By		Updated By		Additional Information									
1/06/14 8:47:13 AM		Steve Morris		Steve Morris		AFE No.:									





Inner Horseshoe Capacity 6585 bbl
Outer Horseshoe Capacity 14822 bbl

Flow-Back Cell Capacity 15599 bbl
Total Capacity 37006 bbl



Drilling Cell Dimensions

Drilling Cell Total Width 180.0
Drilling Cell Total Length 135.0

Slopes of Pit Horizontal Distance 2.00
Slopes of Pit Vertical Distance 1.00
Horseshoe divider width at surface 0.0

Inner Horseshoe Dimensions

Total Width (left right) 90.0
Total Length (up down) 90.0
Depth 7.0
Length of Divider 40.0
Divider Width 0.0
Width of discharge floor 17.0
Width of suction floor 17.0

Outer Horseshoe Dimensions

Width Discharge Side 45.0
Width Suction Side 45.0
Length Far Side (up down) 50.0
Width of discharge Floor 13.0
Width of Suction Floor 13.0
Width of Far Side Floor (right-left dimension) 107.0
Length of far side floor (Up-down dimension) 13.0
Depth of Discharge Side 7.0
Depth of Far Side 8.0
Depth of Suction Side 9.0

Fluids Cell Dimensions

Width (left-right) 95.0
Length (up-down) 135.0
Depth 10.0

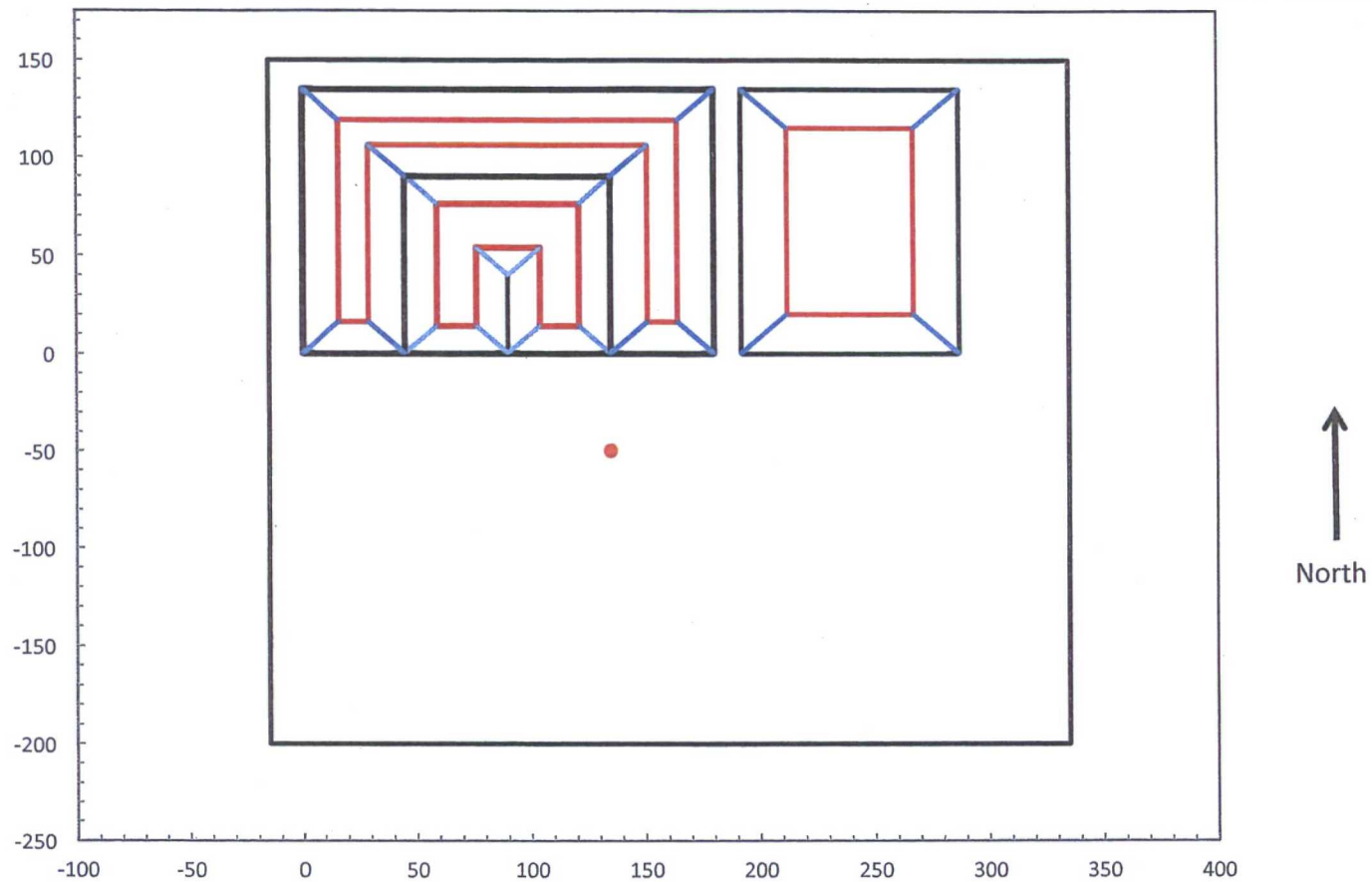
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Suite F-142
Albuquerque, N. M. 87104

North Lea "9" Federal Com. Well No. 2H

Read & Stevens, Inc.

Plate 1

January 2014



R.T. Hicks Consultants
901 Rio Grande Blvd. NW
Suite F-142
Albuquerque, N. M. 87104

Drawing of Drilling Pit and Well in Relation to Pad Boundary
North Lea "9" Federal Com. Well No. 2H

Read & Stevens, Inc.

Plate 2

January 2014

