

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD Artesia

FORM APPROVED
OMB No. 1004-0137
Expires March 31, 2007

RECEIVED

APR 15 2010

NMOC D ARTESIA

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.

SUBMIT IN TRIPLICATE- Other instructions on reverse side.

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other2 Name of Operator **BOPCO, L. P.**3a Address
P. O. Box 2760 Midland, TX 797023b Phone No (include area code)
432-683-2277

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

**Surface: NWSE, 2375' FSL, 1780' FEL, Sec 1, T23S, R30S, Lat N32.33330, Lon W103.83138
BHL: SWNW, 1980' FSL, 330' FWL, Sec 2, T23S, R30E, Lat N32.332281, Long W103.859225**5. Lease Serial No
NM0543280A

6 If Indian, Allottee or Tribe Name

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

8 Well Name and No.

Hudson 1 Federal #9H

9. API Well No.

30-015-37310

10 Field and Pool, or Exploratory Area

Quahada Ridge SE (Delaware)

11 County or Parish, State

Eddy Co., NM

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

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input checked="" type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13 Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat 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 recompleat 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.)

BOPCO requests approval for the revised horizontal casing program.

The 7" casing program will be changed from 7855' of 7", 26#, P-110, LT&C to 7823' of 7", 26#, P-110, LT&C.

The 4-1/2" casing program will also be changed from 8008' of 4-1/2", 11.6#, P-110, LT&C with Baker packers for isolation and the liner hanger will be set at approximately 7705' to 8010' of 4-1/2", 11.6#, P-110, LT&C with Baker packers for isolation and the liner hanger will be set at approximately 7673'.

The revised horizontal drilling plan is attached.

**SEE ATTACHED FOR
CONDITIONS OF APPROVAL**

APPROVED

APR 12 2010
/s/ Myles KristofBUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE14 I hereby certify that the foregoing is true and correct
Name (Printed/Typed)**Annette Childers**Title **Regulatory Clerk**

Signature

Annette Childers

Date

2-10-2010

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

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

Title

Date

Office

Title 18 USC Section 1001 and Title 43 USC Section 1212, make 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 page 2)

DDB

BCK



BOPCO, L.P.

Location Eddy County, NM
Field Quahada Ridge, SE (Delaware)
Facility Hudson 1 Fed No 9H

Slot No 9H SHL
Well No 9H
Wellbore No 9H PWB

Plot reference wellpath is Plan #3

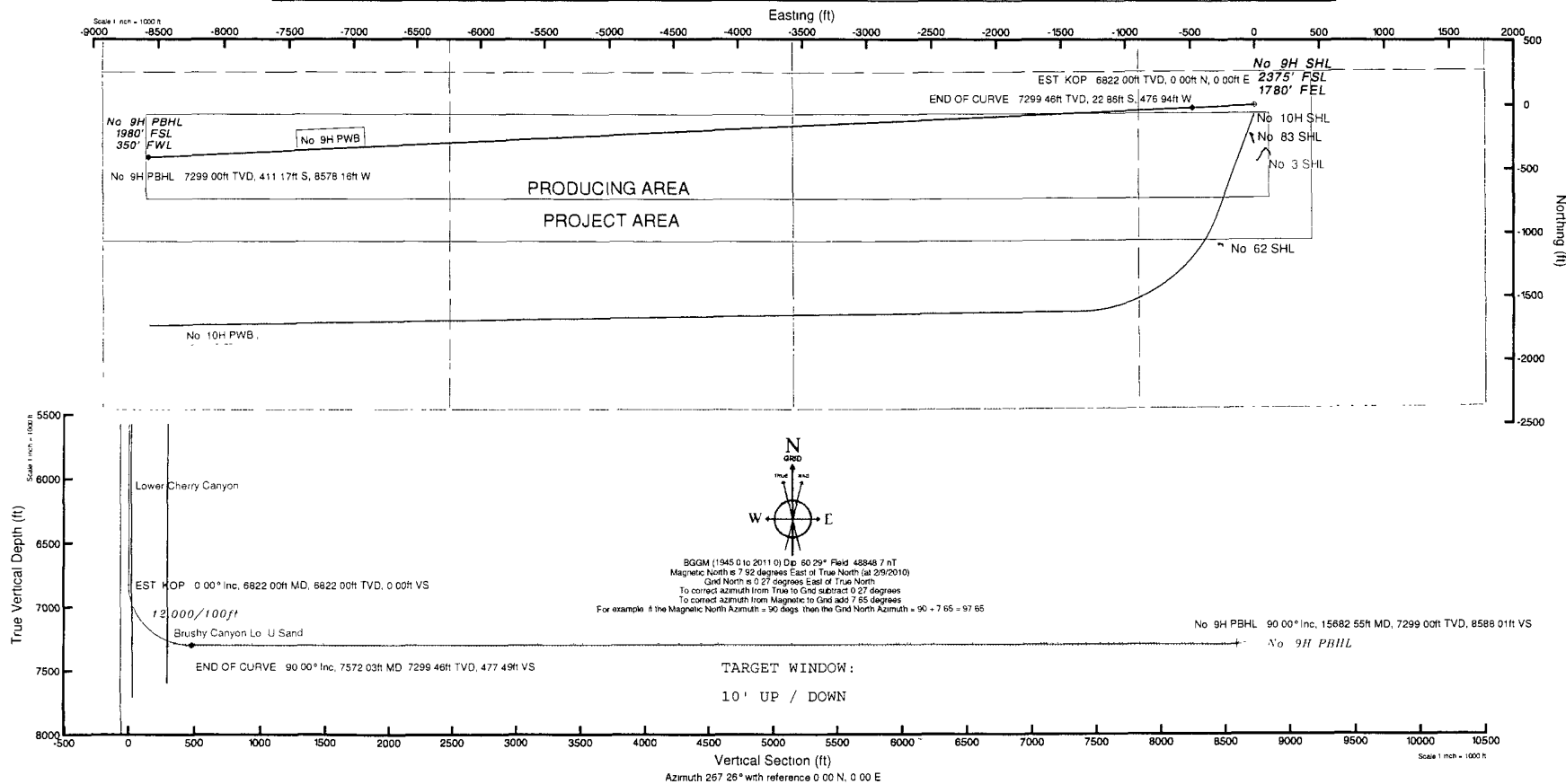
True vertical depths are referenced to Rig on No 9H SHL (RT)
Measured depths are referenced to Rig on No 9H SHL (RT)
Rig on No 9H SHL (RT) to Mean Sea Level 3309 feet
Mean Sea Level to Mud line (Facility Hudson 1 Fed No 9H) 3290 feet
Coordinates are in feet referenced to Surface Location

Grid System: NAD83 / TM New Mexico State Planes Eastern Zone (3001), US feet
North Reference: Grid north
Scale: True distance
Depths are in feet
Created by Victor Hernandez on 3/9/2010



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	267 256	0 00	0 00	0 00	0 00	0 00
EST KOP	6822 00	0 000	267 256	6822 00	0 00	0 00	0 00	0 00
END OF CURVE	7572 03	90 003	267 256	7299 46	-22 86	-476 94	12 00	477 49
No 9H PBHL	15682 55	90 003	267 256	7299 00	-411 17	-8578 16	0 00	8588 01





Planned Wellpath Report

Plan #3
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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	BOPCO, L.P.	Slot	No. 9H SHL
Area	Eddy County, NM	Well	No. 9H
Field	Quahada Ridge, SE (Delaware)	Wellbore	No. 9H PWB
Facility	Hudson 1 Fed No. 9H		

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	0.999937	Report Generated	2/9/2010 at 11:47:57 AM
Convergence at slot	0.27° East	Database/Source file	WA_Midland/No. 9H_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	696371.30	485350.50	32°19'59.887"N	103°49'52.981"W
Facility Reference Pt			696371.30	485350.50	32°19'59.887"N	103°49'52.981"W
Field Reference Pt			696371.30	485350.50	32°19'59.887"N	103°49'52.981"W

WELLPATH DATUM

Calculation method	Minimum curvature	Rig on No. 9H SHL (RT) to GL	19.00ft
Horizontal Reference Pt	Surface Location	Rig on No. 9H SHL (RT) to Mean Sea Level	3309.00ft
Vertical Reference Pt	Rig on No. 9H SHL (RT)	GL to Mud Line (Facility)	0.00ft
MD Reference Pt	Rig on No. 9H SHL (RT)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	267.26°



Planned Wellpath Report

Plan #3

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REFERENCE WELLPATH IDENTIFICATION

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Field	Quahada Ridge, SE (Delaware)	Wellbore	No. 9H PWB
Facility	Hudson 1 Fed No. 9H		

WELLPATH DATA (100 stations) † = interpolated/extrapolated station

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
0.00	0.000	267.256	0.00	0.00	0.00	0.00	696371.30	485350.50	32°19'59.887"N	103°49'52.981"W	0.00	Tie On
197.00†	0.000	267.256	197.00	0.00	0.00	0.00	696371.30	485350.50	32°19'59.887"N	103°49'52.981"W	0.00	Rustler
507.00†	0.000	267.256	507.00	0.00	0.00	0.00	696371.30	485350.50	32°19'59.887"N	103°49'52.981"W	0.00	Base / Rustler
515.00†	0.000	267.256	515.00	0.00	0.00	0.00	696371.30	485350.50	32°19'59.887"N	103°49'52.981"W	0.00	Salt
3654.00†	0.000	267.256	3654.00	0.00	0.00	0.00	696371.30	485350.50	32°19'59.887"N	103°49'52.981"W	0.00	Base / Salt
3892.00†	0.000	267.256	3892.00	0.00	0.00	0.00	696371.30	485350.50	32°19'59.887"N	103°49'52.981"W	0.00	Lamar
3937.00†	0.000	267.256	3937.00	0.00	0.00	0.00	696371.30	485350.50	32°19'59.887"N	103°49'52.981"W	0.00	Ramsey
6047.00†	0.000	267.256	6047.00	0.00	0.00	0.00	696371.30	485350.50	32°19'59.887"N	103°49'52.981"W	0.00	Lower Cherry Canyon
6822.00	0.000	267.256	6822.00	0.00	0.00	0.00	696371.30	485350.50	32°19'59.887"N	103°49'52.981"W	0.00	EST KOP
6922.00†	12.000	267.256	6922.27	10.43	-0.50	-10.42	696360.88	485350.00	32°19'59.882"N	103°49'53.102"W	12.00	
7022.00†	24.000	267.256	7016.20	41.28	-1.98	-41.23	696330.07	485348.52	32°19'59.869"N	103°49'53.461"W	12.00	
7122.00†	36.000	267.256	7102.65	91.19	-4.37	-91.08	696280.22	485346.13	32°19'59.848"N	103°49'54.042"W	12.00	
7222.00†	48.000	267.256	7176.83	157.98	-7.56	-157.80	696213.51	485342.94	32°19'59.819"N	103°49'54.820"W	12.00	
7322.00†	60.000	267.256	7235.50	238.73	-11.43	-238.46	696132.86	485339.07	32°19'59.784"N	103°49'55.760"W	12.00	
7422.00†	72.000	267.256	7276.10	329.92	-15.80	-329.54	696041.78	485334.71	32°19'59.745"N	103°49'56.822"W	12.00	
7431.70†	73.164	267.256	7279.00	339.18	-16.24	-338.79	696032.53	485334.26	32°19'59.742"N	103°49'56.930"W	12.00	Brushy Canyon Lo U Sand
7522.00†	84.000	267.256	7296.85	427.56	-20.47	-427.07	695944.26	485330.03	32°19'59.704"N	103°49'57.959"W	12.00	
7572.03	90.003	267.256	7299.46	477.49	-22.86	-476.94	695894.39	485327.64	32°19'59.682"N	103°49'58.541"W	12.00	END OF CURVE
7622.00†	90.003	267.256	7299.46	527.46	-25.25	-526.86	695844.47	485325.25	32°19'59.661"N	103°49'59.122"W	0.00	
7722.00†	90.003	267.256	7299.46	627.46	-30.04	-626.75	695744.60	485320.46	32°19'59.618"N	103°50'00.287"W	0.00	
7822.00†	90.003	267.256	7299.45	727.46	-34.83	-726.63	695644.72	485315.67	32°19'59.576"N	103°50'01.451"W	0.00	
7922.00†	90.003	267.256	7299.44	827.46	-39.62	-826.52	695544.84	485310.89	32°19'59.533"N	103°50'02.615"W	0.00	
8022.00†	90.003	267.256	7299.44	927.46	-44.40	-926.40	695444.96	485306.10	32°19'59.490"N	103°50'03.780"W	0.00	
8122.00†	90.003	267.256	7299.43	1027.46	-49.19	-1026.29	695345.08	485301.31	32°19'59.447"N	103°50'04.944"W	0.00	
8222.00†	90.003	267.256	7299.43	1127.46	-53.98	-1126.17	695245.20	485296.52	32°19'59.404"N	103°50'06.109"W	0.00	
8322.00†	90.003	267.256	7299.42	1227.46	-58.77	-1226.06	695145.32	485291.74	32°19'59.362"N	103°50'07.273"W	0.00	
8422.00†	90.003	267.256	7299.42	1327.46	-63.56	-1325.94	695045.44	485286.95	32°19'59.319"N	103°50'08.437"W	0.00	
8522.00†	90.003	267.256	7299.41	1427.46	-68.34	-1425.83	694945.57	485282.16	32°19'59.276"N	103°50'09.602"W	0.00	
8622.00†	90.003	267.256	7299.40	1527.46	-73.13	-1525.71	694845.69	485277.37	32°19'59.233"N	103°50'10.766"W	0.00	
8722.00†	90.003	267.256	7299.40	1627.46	-77.92	-1625.60	694745.81	485272.59	32°19'59.191"N	103°50'11.930"W	0.00	



Planned Wellpath Report

Plan #3

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	BOPCO, L.P.	Slot	No. 9H SHL
Area	Eddy County, NM	Well	No. 9H
Field	Quahada Ridge, SE (Delaware)	Wellbore	No. 9H PWB
Facility	Hudson 1 Fed No. 9H		

WELLPATH DATA (100 stations) † = interpolated/extrapolated station

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
8822.00†	90.003	267.256	7299.39	1727.46	-82.71	-1725.48	694645.93	485267.80	32°19'59.148"N	103°50'13.095"W	0.00	
8922.00†	90.003	267.256	7299.39	1827.46	-87.49	-1825.37	694546.05	485263.01	32°19'59.105"N	103°50'14.259"W	0.00	
9022.00†	90.003	267.256	7299.38	1927.46	-92.28	-1925.25	694446.17	485258.22	32°19'59.062"N	103°50'15.424"W	0.00	
9122.00†	90.003	267.256	7299.38	2027.46	-97.07	-2025.14	694346.29	485253.44	32°19'59.019"N	103°50'16.588"W	0.00	
9222.00†	90.003	267.256	7299.37	2127.46	-101.86	-2125.03	694246.41	485248.65	32°19'58.977"N	103°50'17.752"W	0.00	
9322.00†	90.003	267.256	7299.36	2227.46	-106.64	-2224.91	694146.53	485243.86	32°19'58.934"N	103°50'18.917"W	0.00	
9422.00†	90.003	267.256	7299.36	2327.46	-111.43	-2324.80	694046.66	485239.08	32°19'58.891"N	103°50'20.081"W	0.00	
9522.00†	90.003	267.256	7299.35	2427.46	-116.22	-2424.68	693946.78	485234.29	32°19'58.848"N	103°50'21.245"W	0.00	
9622.00†	90.003	267.256	7299.35	2527.46	-121.01	-2524.57	693846.90	485229.50	32°19'58.805"N	103°50'22.410"W	0.00	
9722.00†	90.003	267.256	7299.34	2627.46	-125.80	-2624.45	693747.02	485224.71	32°19'58.762"N	103°50'23.574"W	0.00	
9822.00†	90.003	267.256	7299.34	2727.46	-130.58	-2724.34	693647.14	485219.93	32°19'58.720"N	103°50'24.739"W	0.00	
9922.00†	90.003	267.256	7299.33	2827.46	-135.37	-2824.22	693547.26	485215.14	32°19'58.677"N	103°50'25.903"W	0.00	
10022.00†	90.003	267.256	7299.32	2927.46	-140.16	-2924.11	693447.38	485210.35	32°19'58.634"N	103°50'27.067"W	0.00	
10122.00†	90.003	267.256	7299.32	3027.46	-144.95	-3023.99	693347.50	485205.56	32°19'58.591"N	103°50'28.232"W	0.00	
10222.00†	90.003	267.256	7299.31	3127.46	-149.73	-3123.88	693247.63	485200.78	32°19'58.548"N	103°50'29.396"W	0.00	
10322.00†	90.003	267.256	7299.31	3227.46	-154.52	-3223.76	693147.75	485195.99	32°19'58.505"N	103°50'30.560"W	0.00	
10422.00†	90.003	267.256	7299.30	3327.46	-159.31	-3323.65	693047.87	485191.20	32°19'58.463"N	103°50'31.725"W	0.00	
10522.00†	90.003	267.256	7299.30	3427.46	-164.10	-3423.53	692947.99	485186.41	32°19'58.420"N	103°50'32.889"W	0.00	
10622.00†	90.003	267.256	7299.29	3527.46	-168.88	-3523.42	692848.11	485181.63	32°19'58.377"N	103°50'34.053"W	0.00	
10722.00†	90.003	267.256	7299.28	3627.46	-173.67	-3623.30	692748.23	485176.84	32°19'58.334"N	103°50'35.218"W	0.00	
10822.00†	90.003	267.256	7299.28	3727.46	-178.46	-3723.19	692648.35	485172.05	32°19'58.291"N	103°50'36.382"W	0.00	
10922.00†	90.003	267.256	7299.27	3827.46	-183.25	-3823.08	692548.47	485167.26	32°19'58.248"N	103°50'37.547"W	0.00	
11022.00†	90.003	267.256	7299.27	3927.46	-188.04	-3922.96	692448.60	485162.48	32°19'58.206"N	103°50'38.711"W	0.00	
11122.00†	90.003	267.256	7299.26	4027.46	-192.82	-4022.85	692348.72	485157.69	32°19'58.163"N	103°50'39.875"W	0.00	
11222.00†	90.003	267.256	7299.26	4127.46	-197.61	-4122.73	692248.84	485152.90	32°19'58.120"N	103°50'41.040"W	0.00	
11322.00†	90.003	267.256	7299.25	4227.46	-202.40	-4222.62	692148.96	485148.11	32°19'58.077"N	103°50'42.204"W	0.00	
11422.00†	90.003	267.256	7299.24	4327.46	-207.19	-4322.50	692049.08	485143.33	32°19'58.034"N	103°50'43.368"W	0.00	
11522.00†	90.003	267.256	7299.24	4427.46	-211.97	-4422.39	691949.20	485138.54	32°19'57.991"N	103°50'44.533"W	0.00	
11622.00†	90.003	267.256	7299.23	4527.46	-216.76	-4522.27	691849.32	485133.75	32°19'57.948"N	103°50'45.697"W	0.00	
11722.00†	90.003	267.256	7299.23	4627.46	-221.55	-4622.16	691749.44	485128.96	32°19'57.905"N	103°50'46.861"W	0.00	



Planned Wellpath Report

Plan #3

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INTEQ

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Operator	BOPCO, L.P.	Slot	No. 9H SHL
Area	Eddy County, NM	Well	No. 9H
Field	Quahada Ridge, SE (Delaware)	Wellbore	No. 9H PWB
Facility	Hudson 1 Fed No. 9H		

WELLPATH DATA (100 stations) † = interpolated/extrapolated station

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
11822.00†	90.003	267.256	7299.22	4727.46	-226.34	-4722.04	691649.57	485124.18	32°19'57.863"N	103°50'48.026"W	0.00	
11922.00†	90.003	267.256	7299.22	4827.46	-231.12	-4821.93	691549.69	485119.39	32°19'57.820"N	103°50'49.190"W	0.00	
12022.00†	90.003	267.256	7299.21	4927.46	-235.91	-4921.81	691449.81	485114.60	32°19'57.777"N	103°50'50.355"W	0.00	
12122.00†	90.003	267.256	7299.20	5027.46	-240.70	-5021.70	691349.93	485109.82	32°19'57.734"N	103°50'51.519"W	0.00	
12222.00†	90.003	267.256	7299.20	5127.46	-245.49	-5121.58	691250.05	485105.03	32°19'57.691"N	103°50'52.683"W	0.00	
12322.00†	90.003	267.256	7299.19	5227.46	-250.28	-5221.47	691150.17	485100.24	32°19'57.648"N	103°50'53.848"W	0.00	
12422.00†	90.003	267.256	7299.19	5327.46	-255.06	-5321.36	691050.29	485095.45	32°19'57.605"N	103°50'55.012"W	0.00	
12522.00†	90.003	267.256	7299.18	5427.46	-259.85	-5421.24	690950.41	485090.67	32°19'57.562"N	103°50'56.176"W	0.00	
12622.00†	90.003	267.256	7299.18	5527.46	-264.64	-5521.13	690850.53	485085.88	32°19'57.519"N	103°50'57.341"W	0.00	
12722.00†	90.003	267.256	7299.17	5627.46	-269.43	-5621.01	690750.66	485081.09	32°19'57.476"N	103°50'58.505"W	0.00	
12822.00†	90.003	267.256	7299.16	5727.46	-274.21	-5720.90	690650.78	485076.30	32°19'57.434"N	103°50'59.669"W	0.00	
12922.00†	90.003	267.256	7299.16	5827.46	-279.00	-5820.78	690550.90	485071.52	32°19'57.391"N	103°51'00.834"W	0.00	
13022.00†	90.003	267.256	7299.15	5927.46	-283.79	-5920.67	690451.02	485066.73	32°19'57.348"N	103°51'01.998"W	0.00	
13122.00†	90.003	267.256	7299.15	6027.46	-288.58	-6020.55	690351.14	485061.94	32°19'57.305"N	103°51'03.163"W	0.00	
13222.00†	90.003	267.256	7299.14	6127.46	-293.37	-6120.44	690251.26	485057.15	32°19'57.262"N	103°51'04.327"W	0.00	
13322.00†	90.003	267.256	7299.14	6227.46	-298.15	-6220.32	690151.38	485052.37	32°19'57.219"N	103°51'05.491"W	0.00	
13422.00†	90.003	267.256	7299.13	6327.46	-302.94	-6320.21	690051.50	485047.58	32°19'57.176"N	103°51'06.656"W	0.00	
13522.00†	90.003	267.256	7299.12	6427.46	-307.73	-6420.09	689951.63	485042.79	32°19'57.133"N	103°51'07.820"W	0.00	
13622.00†	90.003	267.256	7299.12	6527.46	-312.52	-6519.98	689851.75	485038.00	32°19'57.090"N	103°51'08.984"W	0.00	
13722.00†	90.003	267.256	7299.11	6627.46	-317.30	-6619.86	689751.87	485033.22	32°19'57.047"N	103°51'10.149"W	0.00	
13822.00†	90.003	267.256	7299.11	6727.46	-322.09	-6719.75	689651.99	485028.43	32°19'57.004"N	103°51'11.313"W	0.00	
13922.00†	90.003	267.256	7299.10	6827.46	-326.88	-6819.64	689552.11	485023.64	32°19'56.961"N	103°51'12.477"W	0.00	
14022.00†	90.003	267.256	7299.10	6927.46	-331.67	-6919.52	689452.23	485018.85	32°19'56.918"N	103°51'13.642"W	0.00	
14122.00†	90.003	267.256	7299.09	7027.46	-336.45	-7019.41	689352.35	485014.07	32°19'56.875"N	103°51'14.806"W	0.00	
14222.00†	90.003	267.256	7299.08	7127.46	-341.24	-7119.29	689252.47	485009.28	32°19'56.832"N	103°51'15.970"W	0.00	
14322.00†	90.003	267.256	7299.08	7227.46	-346.03	-7219.18	689152.60	485004.49	32°19'56.790"N	103°51'17.135"W	0.00	
14422.00†	90.003	267.256	7299.07	7327.46	-350.82	-7319.06	689052.72	484999.71	32°19'56.747"N	103°51'18.299"W	0.00	
14522.00†	90.003	267.256	7299.07	7427.46	-355.61	-7418.95	688952.84	484994.92	32°19'56.704"N	103°51'19.464"W	0.00	
14622.00†	90.003	267.256	7299.06	7527.46	-360.39	-7518.83	688852.96	484990.13	32°19'56.661"N	103°51'20.628"W	0.00	
14722.00†	90.003	267.256	7299.06	7627.46	-365.18	-7618.72	688753.08	484985.34	32°19'56.618"N	103°51'21.792"W	0.00	



Planned Wellpath Report

Plan #3

Page 5 of 5



INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	BOPCO, L.P.	Slot	No. 9H SHL
Area	Eddy County, NM	Well	No. 9H
Field	Quahada Ridge, SE (Delaware)	Wellbore	No. 9H PWB
Facility	Hudson 1 Fed No. 9H		

WELLPATH DATA (100 stations) † = interpolated/extrapolated station

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
14822.00†	90.003	267.256	7299.05	7727.46	-369.97	-7718.60	688653.20	484980.56	32°19'56.575"N	103°51'22.957"W	0.00	
14922.00†	90.003	267.256	7299.04	7827.46	-374.76	-7818.49	688553.32	484975.77	32°19'56.532"N	103°51'24.121"W	0.00	
15022.00†	90.003	267.256	7299.04	7927.46	-379.54	-7918.37	688453.44	484970.98	32°19'56.489"N	103°51'25.285"W	0.00	
15122.00†	90.003	267.256	7299.03	8027.46	-384.33	-8018.26	688353.56	484966.19	32°19'56.446"N	103°51'26.450"W	0.00	
15222.00†	90.003	267.256	7299.03	8127.46	-389.12	-8118.14	688253.69	484961.41	32°19'56.403"N	103°51'27.614"W	0.00	
15322.00†	90.003	267.256	7299.02	8227.46	-393.91	-8218.03	688153.81	484956.62	32°19'56.360"N	103°51'28.778"W	0.00	
15422.00†	90.003	267.256	7299.01	8327.46	-398.69	-8317.92	688053.93	484951.83	32°19'56.317"N	103°51'29.943"W	0.00	
15522.00†	90.003	267.256	7299.01	8427.46	-403.48	-8417.80	687954.05	484947.04	32°19'56.274"N	103°51'31.107"W	0.00	
15622.00†	90.003	267.256	7299.00	8527.46	-408.27	-8517.69	687854.17	484942.26	32°19'56.231"N	103°51'32.271"W	0.00	
15682.55	90.003	267.256	7299.00	8588.01	-411.17	-8578.16	687793.70	484939.36	32°19'56.205"N	103°51'32.976"W	0.00	No. 9H PBHL

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	Shape
1) No. 9H PBHL	15682.55	7299.00	-411.17	-8578.16	687793.70	484939.36	32°19'56.205"N	103°51'32.976"W	point

SURVEY PROGRAM Ref Wellbore: No. 9H PWB Ref Wellpath: Plan #3

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
19.00	15682.55	NaviTrak (Standard)		No. 9H PWB

OCD-ARTESIA

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No 1004-0137
Expires March 31, 2007

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.

SUBMIT IN TRIPLICATE- Other instructions on reverse side.

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator
BOPCO, L. P.

3a. Address
P. O. Box 2760 Midland, TX 79702

3b. Phone No (include area code)
432-683-2277

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
**Surface: NWSE, 2375' FSL, 1780' FEL, Sec 1, T23S, R30S, Lat N32.33330, Lon W103.83138
BHL: SWNW, 1980' FSL, 330' FWL, Sec 2, T23S, R30E, Lat N32.332281, Long W103.859225**

5. Lease Serial No
NM0543280A

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No
Hudson 1 Federal #9H

9. API Well No
30-015-37310

10. Field and Pool, or Exploratory Area
Quahada Ridge SE (Delaware)

11. County or Parish, State
Eddy Co., NM

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

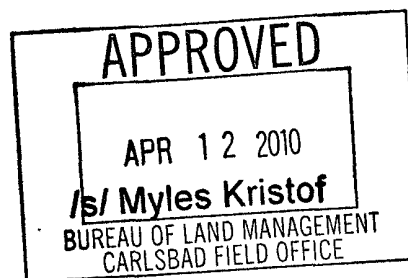
TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input checked="" type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other _____
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat 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 recompleat 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.)

BOPCO requests approval for the revised surface casing program.

The 13 3/8" casing program will be changed from 48# H-40, ST&C set @ 486', to 13 3/8" 54.5# J-55, ST&C set @ 572'.

BOPCO L.P. Bond # on file: COB000050



14. I hereby certify that the foregoing is true and correct
Name (Printed/Typed)

Annette Childers

Title **Regulatory Clerk**

Signature

Annette Childers

Date

2-8-2010

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by _____

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.

Title

Date

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make 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 page 2)

OCD-ARTESIA

Form 3160-5
(April 2004)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB No. 1004-0137
Expires March 31, 2007

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.***SUBMIT IN TRIPLICATE- Other instructions on reverse side.**

1 Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. NM0543280A
2 Name of Operator BOPCO, L. P.		6 If Indian, Allottee or Tribe Name
3a Address P. O. Box 2760 Midland, TX 79702	3b. Phone No (include area code) 432-683-2277	7. If Unit or CA/Agreement, Name and/or No
4 Location of Well (Footage, Sec, T., R., M., or Survey Description) Surface: NWSE, 2375' FSL, 1780' FEL, Sec 1, T23S, R30S, Lat N32.33330, Lon W103.83138 BHL: SWNW, 1980' FSL, 330' FWL, Sec 2, T23S, R30E, Lat N32.332281, Long W103.859225		8 Well Name and No Hudson 1 Federal #9H
		9 API Well No. 30-015-37310
		10 Field and Pool, or Exploratory Area Quahada Ridge SE (Delaware)
		11. County or Parish, State Eddy Co., NM

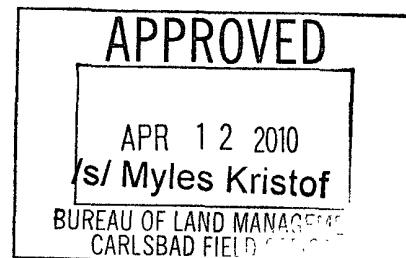
12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other Alter cement
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat 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 recompleat 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.)

BOPCO requests approval for the revised cement program.

See attached



14 I hereby certify that the foregoing is true and correct Name (Printed/Typed) Annette Childers		Title Regulatory Clerk
Signature <i>Annette Childers</i>		Date 2-8-200

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by _____	Title _____	Date _____
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 USC Section 1001 and Title 43 USC Section 1212, make 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 page 2)

DJB

15X

BOPCO requests approval for the revised cement program.

From: <u>INTERVAL</u> <u>SURFACE</u>	<u>Amount Sxs</u>	<u>Ft of Fill</u>	<u>TYPE</u>	<u>GALS/SX</u>	<u>PPG</u>	<u>FT³/SX</u>
Lead (100% excess Circ to surface)	250	286	EconoCem HLC + 2.7 #/sk Salt	10.25	12.8	1.88
Tail (100% excess)	210	200	HalCem-C + 2% CaCl ₂	6 398	14.8	1 35
INTERMEDIATE						
Lead (100% excess Circ to surface)	1100	3393	EconoCem HLC + 2.7 #/sk Salt	10.27	12.8	1.89
Tail (100% excess)	250	500	HalCem-C	6.34	14 8	1.33
2 nd INTERMEDIATE						
Stage 1						
Lead (50% excess circ to surface)	200	1650	EconoCem-HLH	11.06	12.5	1 97
Tail (50% excess)	200	1050	HalCem H + 0.6% Halad 9	4.89	16	1 13
DV Tool @ 5000'						
Stage 2						
Lead (50% excess)	400	4900	EconoCem-HLC	11.6	12.5	1.97
Tail (50% excess)	50	100	Class "C" Neat	6.34	14.8	1.34
To: <u>INTERVAL</u> <u>SURFACE</u>	<u>Amount Sxs</u>	<u>Ft of Fill</u>	<u>TYPE</u>	<u>GALS/SX</u>	<u>PPG</u>	<u>FT³/SX</u>
Lead (100% excess Circ to surface)	375	382	Class C + D020 + S001 + D130	9.154	13 50	1.74
Tail (100% excess)	200	190	Class C + S001 + D130	6 348	14 80	1 34
INTERMEDIATE						
Lead (50% excess Circ to surface)	655	3043	LiteCrete + D046 +D065 + D042 + D124	7.475	10.20	2 17
Tail (50% excess)	300	850	Class C Neat	6.365	14.80	1 33
2 nd INTERMEDIATE						
Stage 1						
Lead (30% excess circ to surface)	157	1555	LiteCrete + D166 + D042 +D046 + D013 + D124	8.937	9.90	2.40
Tail (30% excess)	181	1300	TXI + D167 + D065 + D013 + D042 + D049	7.027	13 00	1.41
DV Tool @ 5000'						
Stage 2						
Lead (30% excess)	425	4320	35/65 Poz + D044 + D020 + D042 + D046 + D132	10 916	12 60	1.98
Tail (30% excess)	100	680	Class C + D013	6 352	14 80	1.33

PECOS DISTRICT CONDITIONS OF APPROVAL

OPERATOR'S NAME:	BOPCO, L.P.
LEASE NO.:	NM02884B
WELL NAME & NO.:	HUDSON 1 FEDERAL #9H
SURFACE HOLE FOOTAGE:	2375 FSL & 1780' FEL SEC 1, T23S, R30E
BOTTOM HOLE FOOTAGE:	1980' FSL & 330' FWL SEC 2, T23S, R30E
LOCATION:	Section 1, T. 23 S., R 30 E., NMPM
COUNTY:	Eddy County, New Mexico

I. DRILLING

A. DRILLING OPERATIONS REQUIREMENTS

The BLM is to be notified a minimum of 4 hours in advance for a representative to witness:

- a. Spudding well
- b. Setting and/or Cementing of all casing strings
- c. BOPE tests

☒ **Eddy County**

Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,
(575) 361-2822

1. **Due to recent H2S encounters in the salt formation, it is recommended that monitoring equipment be onsite for potential Hydrogen Sulfide prior to drilling out the surface shoe. If Hydrogen Sulfide is encountered, please report measurements and formations to the BLM.**
2. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
3. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.

4. The record of the drilling rate along with the CAL/GR/N well log run from TD to surface will be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

B. CASING

Changes to the approved APD casing and cement program require submitting a sundry and receiving approval prior to work. Failure to obtain approval prior to work will result in an Incident of Non-Compliance being issued.

Centralizers required on surface casing per Onshore Order 2.III.B.1.f.

Wait on cement (WOC) time for a primary cement job will be a minimum 18 hours for a water basin, 24 hours in the potash area, or 500 pounds compressive strength, whichever is greater for all casing strings. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. See individual casing strings for details regarding lead cement slurry requirements.

No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

R-111-P Potash

High cave/karst.

Possible lost circulation in the Delaware and Bone Spring formations.

1. The 13-3/8 inch surface casing shall be set at approximately 572 feet (a minimum of 25 feet into the Rustler Anhydrite and above the salt) and cemented to the surface. If the salt is encountered at a shallower depth, the casing is to be set a minimum of 25 feet above the salt.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with a surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry.

- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
2. The minimum required fill of cement behind the **9-5/8 inch intermediate casing is: Casing to be set within the Fletcher Anhydrite or Lamar Limestone zone.**

- ☒ Cement to surface. If cement does not circulate see B.1.a, c-d above.
Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to potash and cave/karst concerns.

Centralizers required on horizontal leg, must be type for horizontal service and minimum of one every other joint.

3. The minimum required fill of cement behind the 7 inch production casing is:
- a. First stage to DV tool, cement shall:
 - ☒ Cement to circulate. If cement does not circulate, contact the appropriate BLM office, before proceeding with second stage cement job.
 - b. Second stage above DV tool, cement shall:
 - ☒ Cement to surface. If cement does not circulate, contact the appropriate BLM office.
4. The minimum required fill of cement behind the **4-1/2 inch production liner is:**
- ☒ No cement required. Operator is using a packer liner system.
5. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
6. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

C. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
2. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **3000 (3M) psi. Operator is using a 5M system, but testing as a 3M.**
 - a. **For surface casing only:** If the BOP/BOPE is to be tested against casing, the wait on cement (WOC) time for that casing is to be met (see WOC statement at start of casing section). Independent service company required.
3. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. Casing cut-off and BOP installation will not be initiated until the cement has had a minimum of 8 hours setup time for a water basin. The casing shall remain stationary and under pressure for at least eight hours after the operator places the cement. In the potash area, the minimum time is 12 hours and the casing shall remain stationary and under pressure during this time period. Casing shall be under pressure if the operator uses some acceptable means of holding pressure or if the operator employs one or more float valves to hold the cement in place. Testing the BOP/BOPE against a plug can commence after meeting the above conditions plus the BOP installation time.
 - b. The tests shall be done by an independent service company utilizing a test plug.
 - c. The results of the test shall be reported to the appropriate BLM office.
 - d. All tests are required to be recorded on a calibrated test chart. **A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.**
 - e. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug.

D. DRILL STEM TEST

If drill stem tests are performed, Onshore Order 2.III.D shall be followed.

MAK 030810

13 3/8 surface csg in a		17 1/2	inch hole.		<u>Design Factors</u>			<u>SURFACE</u>	
Segment	#/ft	Grade	Coupling	Joint	Collapse	Burst	Length	Weight	
"A"	54.50	J 55	ST&C	16.49	4.42	1.35	572	31,174	
"B"							0	0	
w/8.4#/g mud, 30min Sfc Csg Test psig: 1,500				Tail Cmt	does	circ to sfc.	Totals:	572 31,174	
<u>Comparison of Proposed to Minimum Required Cement Volumes</u>									
Hole	Annular	Proposed	CuFt Cmt	Min	Excess	Drilling	Calc	Req'd	Min Dist
Size	Volume	Sx Cmt	Proposed	Cu Ft	% Cmt	Mud Wt	MASP	BOPE	Hole-Cplg
17 1/2	0.6946	575	921	301	205	8.60	1166	2M	1.56

9 5/8 casing inside the 13 3/8 casing.					<u>Design Factors</u>		<u>INTERMEDIATE</u>		
Segment	#/ft	Grade	Coupling	Joint	Collapse	Burst	Length	Weight	
"A"	40.00	J 55	LT&C	3.34	1.27	1.06	3,893	155,720	
"B"							0	0	
"C"							0	0	
"D"							0	0	
w/8.4#/g mud, 30min Sfc Csg Test psig: 1,066							Totals:	3,893 155,720	
<u>The cement volume(s) proposed may achieve a top</u>					<u>0</u>	<u>feet from surface.</u>			
Hole	Annular	Proposed	CuFt Cmt	Min	Excess	Drilling	Calc	Req'd	Min Dist
Size	Volume	Sx Cmt	Proposed	Cu Ft	% Cmt	Mud Wt	MASP	BOPE	Hole-Cplg
12 1/4	0.3132	955	1820	1266	44	10.00	2119	3M	0.81

7	casing inside the 9 5/8				Design Factors		INTERMEDIATE		
Segment	#/ft	Grade	Coupling	Joint	Collapse	Burst	Length	Weight	
"A"	26.00	P 110	LT&C	2.03	1.45	2.88	7,823	203,398	
"B"							0	0	
"C"							0	0	
"D"							0	0	
w/8.4#/g mud, 30min Sfc Csg Test psig: 1,613							Totals:	7,823 203,398	
A	Segment	Design	Factors	would be	3.64	1.66	if it were a vertical wellbore.		
<u>The cement volume(s) proposed may achieve a top</u>					<u>0</u>	<u>feet from surface.</u>			
Hole	Annular	Proposed	CuFt Cmt	Min	Excess	Drilling	Calc	Req'd	Min Dist
Size	Volume	Sx Cmt	Proposed	Cu Ft	DVT Cmt	Mud Wt	MASP	BOPE	Hole-Cplg
8 3/4	0.1503	863	1607	1231	Check	9.80	1829	2M	0.55

4 1/2		Liner w/top @		7673		<u>Design Factors</u>		<u>LINER</u>	
Segment	#/ft	Grade	Coupling	Joint	Collapse	Burst	Length	Weight	
"A"	11.60	P 110	LT&C	1.32	1.52	2.25	8,010	92,916	
"B"							0	0	
"C"							0	0	
"D"							0	0	
w/8.4#/g mud, 30min Sfc Csg Test psig: 1,609							Totals:	8,010	92,916
A Segment Design Factors would be:				∞	1.84	if it were a vertical wellbore.			
<u>The cement volume(s) proposed may achieve a top</u>				0	<u>feet from surface.</u>				
Hole Size	Annular Volume	Proposed Sx Cmt	CuFt Cmt Proposed	Min Cu Ft	Excess % Cmt	Drilling Mud Wt	Calc MASP	Req'd BOPE	Min Dist Hole-Cplg
6 1/8	0.0942			1578	PACKER	9.00			0.81