

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD Artesia

FORM APPROVED
OMB NO. 1004-0135
Expires: July 31, 2010**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		5. Lease Serial No. NMLC069705
2. Name of Operator BOPCO LP		6. If Indian, Allottee or Tribe Name
3a. Address MIDLAND, TX 79702		7. If Unit or CA/Agreement, Name and/or No. 891000326X
3b. Phone No. (include area code) Ph: 432-221-7307		8. Well Name and No. BIG EDDY UNIT 265H
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 34 T19S R31E NENW 1120FNL 1980FWL		9. API Well No. 30-015-41076-00-X1
		10. Field and Pool, or Exploratory HACKBERRY
		11. County or Parish, and State EDDY COUNTY, NM

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

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☒ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ 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 recomple 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.)

BOPCO, L.P. requests to make the below changes to the above captioned well:

In place of running the approved long string of 5-1/2", 17 ppg, P-110, LTC casing, we plan to drill an 8-3/4" hole and run 7", 26#, HCP-110, LTC casing to a depth of 10,520' which is approximately 263' into the top of the Wolfcamp. Casing safety factors are as follows: Collapse - 1.17, Burst - 1.70, Tension - 2.99. The 7" casing will be cemented in two stages with a DV tool placed at approximately 5,000'. Stage 1 Lead - 420 sks Tuned Light + additives (11 ppg, 2.64 cu.ft./sk). Stage 1 Tail - 100 sks Veracem "H" + additives (13 ppg, 1.67 cu.ft./sk). Stage 2 Primary - 400 sks Tuned Light + additives (11 ppg, 2.35 cu.ft./sk). Final volumes will be based on 30% excess over caliper log.

RECEIVED
APR 30 2013
NMOCD ARTESIA
**SEE ATTACHED FOR
CONDITIONS OF APPROVAL**

-----We will then kick off and drill a 6-1/8" curve and lateral hole to a depth of 14,854' MD (11,062'-----

Accepted for record
NMOCD

14. I hereby certify that the foregoing is true and correct. Electronic Submission #205415 verified by the BLM Well Information System For BOPCO LP, sent to the Carlsbad Committed to AFMS for processing by CHRISTOPHER WALLS on 04/25/2013 (13CRW0110SE)		<i>ARWade 4/30/2013</i>
Name (Printed/Typed) CHRISTOPHER W GIESE	Title DRILLING ENGINEER	
Signature (Electronic Submission)	Date 04/25/2013	

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By <u>CHRISTOPHER WALLS</u>	Title <u>PETROLEUM ENGINEER</u>	Date <u>04/25/2013</u>
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 <u>Carlsbad</u>

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.

Additional data for EC transaction #205415 that would not fit on the form

32. Additional remarks, continued

TVD) as per the attached directional plan. We will run a 4-1/2", 11.6#, HCP-110, BTC cemented liner to 14,854' MD with the top of the liner overlapping 200' into the 7" casing shoe at 10,320' MD. We will complete the well utilizing the plug & perf method with the upper most perf being no more shallow than 11,100' MD (11,000' TVD). A single stage cement job and a liner top packer set at approximately 10,320' MD will be utilized to isolate the 4-1/2" liner and producing interval. The cement job will consist of a single slurry of 540 sks of Veracem "H" + additives (14.40 ppg, 1.29 cu.t./sk). Final volumes will be based on 50% excess over gauge hole.

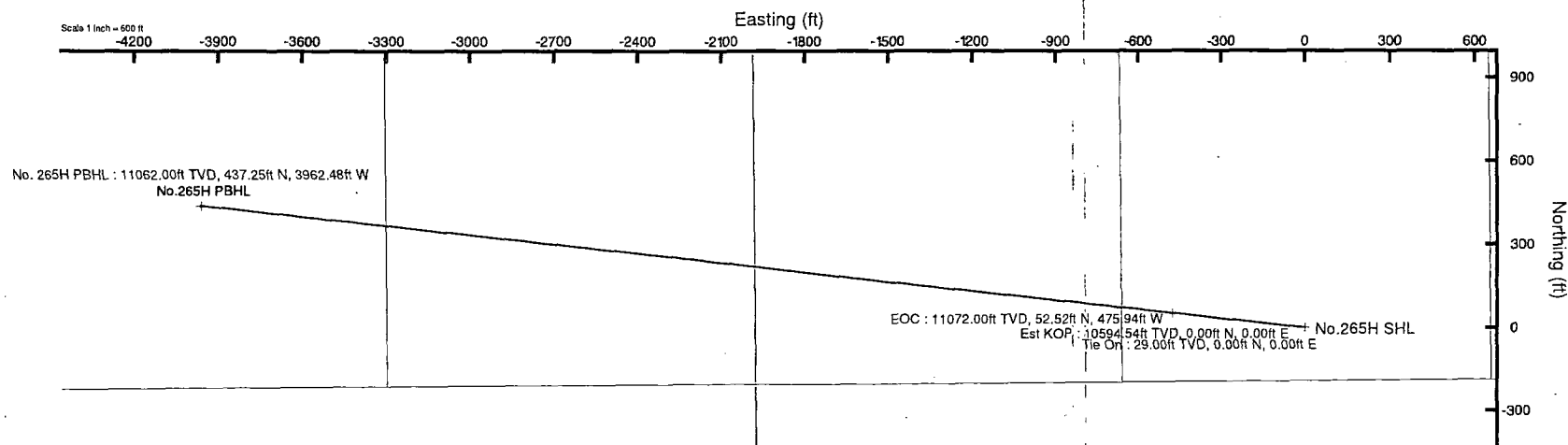
No pilot hole will be drilled on this well.



BOPCO, L.P.

Location: Eddy County, NM
Field: Big Eddy
Facility: Big Eddy Unit No.265H

Slot: No.265H SHL
Well: No.265H
Wellbore: No.265H PWB

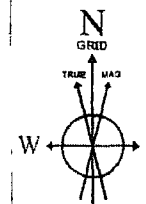
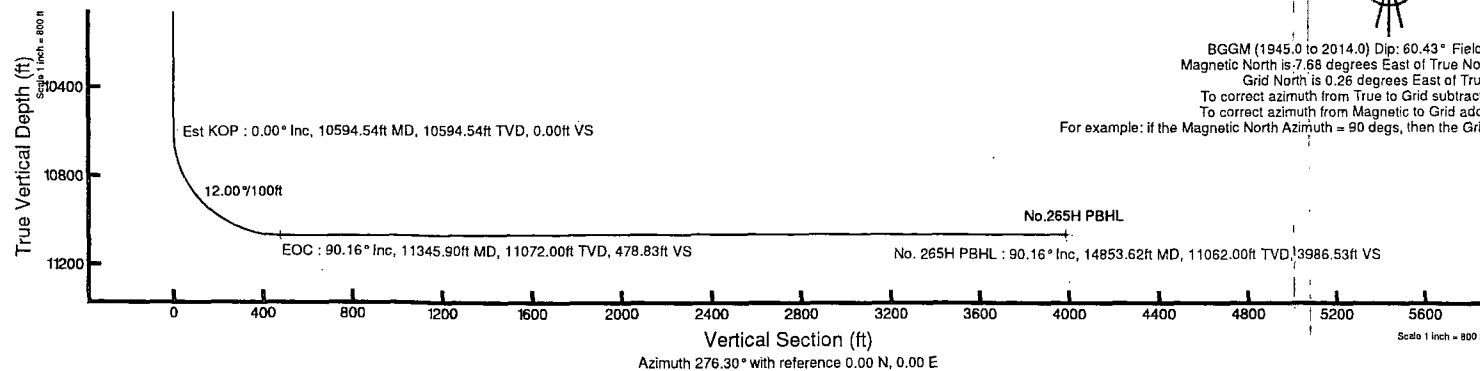


Well Profile Data

Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	29.00	0.000	276.297	29.00	0.00	0.00	0.00	0.00
Est KOP	10594.54	0.000	276.297	10594.54	0.00	0.00	0.00	0.00
EOC	11345.90	90.163	276.297	11072.00	52.52	-475.94	12.00	478.83
No. 265H PBHL	14853.62	90.163	276.297	11062.00	437.25	-3962.48	0.00	3986.53

Plot reference wellpath is Rev-C.0

True vertical depths are referenced to Rig on No.265H SHL (KB)	Grid System: NAD27 / TM New Mexico SP, Eastern Zone (3001), US feet
Measured depths are referenced to Rig on No.265H SHL (KB)	North Reference: Grid north
Rig on No.265H SHL (KB) to Mean Sea Level: 3493 feet	Scale: True distance
Mean Sea Level to Mud line (At Slot: No.265H SHL): -3454 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: harrkot on 3/21/2013



BGGM (1945.0 to 2014.0) Dip: 60.43° Field: 48670.2 nT
Magnetic North is 7.68 degrees East of True North (at 11/6/2012)
Grid North is 0.26 degrees East of True North
To correct azimuth from True to Grid subtract 0.26 degrees
To correct azimuth from Magnetic to Grid add 7.43 degrees
For example: if the Magnetic North Azimuth = 90 degs, then the Grid North Azimuth = 90 + 7.43 = 97.43



Planned Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION			
Operator	BOPCO, L.P.	Slot	No.265H SHL
Area	Eddy County, NM	Well	No.265H
Field	Big Eddy	Wellbore	No.265H PWB
Facility	Big Eddy Unit No.265H		

REPORT SETUP INFORMATION			
Projection System	NAD27 / TM New Mexico SP, Eastern Zone (3001), US feet	Software System	WellArchitect@ 3.0.0
North Reference	Grid	User	Harrkol
Scale	0.999934	Report Generated	3/21/2013 at 10:56:04 AM
Convergence at slot	0.26° East	Database/Source file	WA Midland/No.265H_PWB.xml

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	0.00	0.00	646139.62	589950.15	32°37'15.527"N	103°51'31.258"W
Facility Reference Pt			646139.62	589950.15	32°37'15.527"N	103°51'31.258"W
Field Reference Pt			610823.03	524402.80	32°26'28.262"N	103°58'26.774"W

WELLPATH DATUM			
Calculation method	Minimum curvature	Rig on No.265H SHL (KB) to Facility Vertical Datum	29.00ft
Horizontal Reference Pt	Slot	Rig on No.265H SHL (KB) to Mean Sea Level	3493.00ft
Vertical Reference Pt	Rig on No.265H SHL (KB)	Rig on No.265H SHL (KB) to Mud Line at Slot (No.265H SHL)	29.00ft
MD Reference Pt	Rig on No.265H SHL (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	276.30°



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REFERENCE WELLPATH IDENTIFICATION			
Operator	BOPCO, L.P.	Slot	No.265H SHL
Area	Eddy County, NM	Well	No.265H
Field	Big Eddy	Wellbore	No.265H PWB
Facility	Big Eddy Unit No.265H		

WELLPATH DATA (161 stations) † = interpolated/extrapolated station												
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
0.00†	0.000	276.297	0.00	0.00	0.00	0.00	646139.62	589950.15	32°37'15.527"N	103°51'31.258"W	0.00	
29.00	0.000	276.297	29.00	0.00	0.00	0.00	646139.62	589950.15	32°37'15.527"N	103°51'31.258"W	0.00	Tie On
129.00†	0.000	276.297	129.00	0.00	0.00	0.00	646139.62	589950.15	32°37'15.527"N	103°51'31.258"W	0.00	
229.00†	0.000	276.297	229.00	0.00	0.00	0.00	646139.62	589950.15	32°37'15.527"N	103°51'31.258"W	0.00	
329.00†	0.000	276.297	329.00	0.00	0.00	0.00	646139.62	589950.15	32°37'15.527"N	103°51'31.258"W	0.00	
429.00†	0.000	276.297	429.00	0.00	0.00	0.00	646139.62	589950.15	32°37'15.527"N	103°51'31.258"W	0.00	
529.00†	0.000	276.297	529.00	0.00	0.00	0.00	646139.62	589950.15	32°37'15.527"N	103°51'31.258"W	0.00	
629.00†	0.000	276.297	629.00	0.00	0.00	0.00	646139.62	589950.15	32°37'15.527"N	103°51'31.258"W	0.00	
729.00†	0.000	276.297	729.00	0.00	0.00	0.00	646139.62	589950.15	32°37'15.527"N	103°51'31.258"W	0.00	
829.00†	0.000	276.297	829.00	0.00	0.00	0.00	646139.62	589950.15	32°37'15.527"N	103°51'31.258"W	0.00	
833.00†	0.000	276.297	833.00	0.00	0.00	0.00	646139.62	589950.15	32°37'15.527"N	103°51'31.258"W	0.00	T/Rustler
903.00†	0.000	276.297	903.00	0.00	0.00	0.00	646139.62	589950.15	32°37'15.527"N	103°51'31.258"W	0.00	T/Salt
929.00†	0.000	276.297	929.00	0.00	0.00	0.00	646139.62	589950.15	32°37'15.527"N	103°51'31.258"W	0.00	
1029.00†	0.000	276.297	1029.00	0.00	0.00	0.00	646139.62	589950.15	32°37'15.527"N	103°51'31.258"W	0.00	
1129.00†	0.000	276.297	1129.00	0.00	0.00	0.00	646139.62	589950.15	32°37'15.527"N	103°51'31.258"W	0.00	
1229.00†	0.000	276.297	1229.00	0.00	0.00	0.00	646139.62	589950.15	32°37'15.527"N	103°51'31.258"W	0.00	
1329.00†	0.000	276.297	1329.00	0.00	0.00	0.00	646139.62	589950.15	32°37'15.527"N	103°51'31.258"W	0.00	
1429.00†	0.000	276.297	1429.00	0.00	0.00	0.00	646139.62	589950.15	32°37'15.527"N	103°51'31.258"W	0.00	
1529.00†	0.000	276.297	1529.00	0.00	0.00	0.00	646139.62	589950.15	32°37'15.527"N	103°51'31.258"W	0.00	
1629.00†	0.000	276.297	1629.00	0.00	0.00	0.00	646139.62	589950.15	32°37'15.527"N	103°51'31.258"W	0.00	
1729.00†	0.000	276.297	1729.00	0.00	0.00	0.00	646139.62	589950.15	32°37'15.527"N	103°51'31.258"W	0.00	
1829.00†	0.000	276.297	1829.00	0.00	0.00	0.00	646139.62	589950.15	32°37'15.527"N	103°51'31.258"W	0.00	
1929.00†	0.000	276.297	1929.00	0.00	0.00	0.00	646139.62	589950.15	32°37'15.527"N	103°51'31.258"W	0.00	
2029.00†	0.000	276.297	2029.00	0.00	0.00	0.00	646139.62	589950.15	32°37'15.527"N	103°51'31.258"W	0.00	
2053.00†	0.000	276.297	2053.00	0.00	0.00	0.00	646139.62	589950.15	32°37'15.527"N	103°51'31.258"W	0.00	B/Salt
2129.00†	0.000	276.297	2129.00	0.00	0.00	0.00	646139.62	589950.15	32°37'15.527"N	103°51'31.258"W	0.00	
2229.00†	0.000	276.297	2229.00	0.00	0.00	0.00	646139.62	589950.15	32°37'15.527"N	103°51'31.258"W	0.00	
2329.00†	0.000	276.297	2329.00	0.00	0.00	0.00	646139.62	589950.15	32°37'15.527"N	103°51'31.258"W	0.00	
2429.00†	0.000	276.297	2429.00	0.00	0.00	0.00	646139.62	589950.15	32°37'15.527"N	103°51'31.258"W	0.00	
2529.00†	0.000	276.297	2529.00	0.00	0.00	0.00	646139.62	589950.15	32°37'15.527"N	103°51'31.258"W	0.00	



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REFERENCE WELLPATH IDENTIFICATION			
Operator	BOPCO, L.P.	Slot	No.265H SHL
Area	Eddy County, NM	Well	No.265H
Field	Big Eddy	Wellbore	No.265H PWB
Facility	Big Eddy Unit No.265H		

WELLPATH DATA (161 stations) = interpolated/extrapolated station												
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
2629.00†	0.000	276.297	2629.00	0.00	0.00	0.00	646139.62	589950.15	32°37'15.527"N	103°51'31.258"W	0.00	
2729.00†	0.000	276.297	2729.00	0.00	0.00	0.00	646139.62	589950.15	32°37'15.527"N	103°51'31.258"W	0.00	
2829.00†	0.000	276.297	2829.00	0.00	0.00	0.00	646139.62	589950.15	32°37'15.527"N	103°51'31.258"W	0.00	
2893.00†	0.000	276.297	2893.00	0.00	0.00	0.00	646139.62	589950.15	32°37'15.527"N	103°51'31.258"W	0.00	T/Capitan Reef
2929.00†	0.000	276.297	2929.00	0.00	0.00	0.00	646139.62	589950.15	32°37'15.527"N	103°51'31.258"W	0.00	
3029.00†	0.000	276.297	3029.00	0.00	0.00	0.00	646139.62	589950.15	32°37'15.527"N	103°51'31.258"W	0.00	
3129.00†	0.000	276.297	3129.00	0.00	0.00	0.00	646139.62	589950.15	32°37'15.527"N	103°51'31.258"W	0.00	
3229.00†	0.000	276.297	3229.00	0.00	0.00	0.00	646139.62	589950.15	32°37'15.527"N	103°51'31.258"W	0.00	
3329.00†	0.000	276.297	3329.00	0.00	0.00	0.00	646139.62	589950.15	32°37'15.527"N	103°51'31.258"W	0.00	
3429.00†	0.000	276.297	3429.00	0.00	0.00	0.00	646139.62	589950.15	32°37'15.527"N	103°51'31.258"W	0.00	
3529.00†	0.000	276.297	3529.00	0.00	0.00	0.00	646139.62	589950.15	32°37'15.527"N	103°51'31.258"W	0.00	
3629.00†	0.000	276.297	3629.00	0.00	0.00	0.00	646139.62	589950.15	32°37'15.527"N	103°51'31.258"W	0.00	
3729.00†	0.000	276.297	3729.00	0.00	0.00	0.00	646139.62	589950.15	32°37'15.527"N	103°51'31.258"W	0.00	
3829.00†	0.000	276.297	3829.00	0.00	0.00	0.00	646139.62	589950.15	32°37'15.527"N	103°51'31.258"W	0.00	
3929.00†	0.000	276.297	3929.00	0.00	0.00	0.00	646139.62	589950.15	32°37'15.527"N	103°51'31.258"W	0.00	
4029.00†	0.000	276.297	4029.00	0.00	0.00	0.00	646139.62	589950.15	32°37'15.527"N	103°51'31.258"W	0.00	
4129.00†	0.000	276.297	4129.00	0.00	0.00	0.00	646139.62	589950.15	32°37'15.527"N	103°51'31.258"W	0.00	
4229.00†	0.000	276.297	4229.00	0.00	0.00	0.00	646139.62	589950.15	32°37'15.527"N	103°51'31.258"W	0.00	
4329.00†	0.000	276.297	4329.00	0.00	0.00	0.00	646139.62	589950.15	32°37'15.527"N	103°51'31.258"W	0.00	
4418.00†	0.000	276.297	4418.00	0.00	0.00	0.00	646139.62	589950.15	32°37'15.527"N	103°51'31.258"W	0.00	T/Delaware Mountain Grp.
4429.00†	0.000	276.297	4429.00	0.00	0.00	0.00	646139.62	589950.15	32°37'15.527"N	103°51'31.258"W	0.00	
4443.00†	0.000	276.297	4443.00	0.00	0.00	0.00	646139.62	589950.15	32°37'15.527"N	103°51'31.258"W	0.00	T/1st Delaware Sand
4529.00†	0.000	276.297	4529.00	0.00	0.00	0.00	646139.62	589950.15	32°37'15.527"N	103°51'31.258"W	0.00	
4629.00†	0.000	276.297	4629.00	0.00	0.00	0.00	646139.62	589950.15	32°37'15.527"N	103°51'31.258"W	0.00	
4729.00†	0.000	276.297	4729.00	0.00	0.00	0.00	646139.62	589950.15	32°37'15.527"N	103°51'31.258"W	0.00	
4829.00†	0.000	276.297	4829.00	0.00	0.00	0.00	646139.62	589950.15	32°37'15.527"N	103°51'31.258"W	0.00	
4929.00†	0.000	276.297	4929.00	0.00	0.00	0.00	646139.62	589950.15	32°37'15.527"N	103°51'31.258"W	0.00	
5029.00†	0.000	276.297	5029.00	0.00	0.00	0.00	646139.62	589950.15	32°37'15.527"N	103°51'31.258"W	0.00	
5129.00†	0.000	276.297	5129.00	0.00	0.00	0.00	646139.62	589950.15	32°37'15.527"N	103°51'31.258"W	0.00	
5229.00†	0.000	276.297	5229.00	0.00	0.00	0.00	646139.62	589950.15	32°37'15.527"N	103°51'31.258"W	0.00	



Planned Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION			
Operator	BOPCO, L.P.	Slot	No.265H SHL
Area	Eddy County, NM	Well	No.265H
Field	Big Eddy	Wellbore	No.265H PWB
Facility	Big Eddy Unit No.265H		

WELLPATH DATA (161 stations) = interpolated/extrapolated station												
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
5329.00†	0.000	276.297	5329.00	0.00	0.00	0.00	646139.62	589950.15	32°37'15.527"N	103°51'31.258"W	0.00	
5429.00†	0.000	276.297	5429.00	0.00	0.00	0.00	646139.62	589950.15	32°37'15.527"N	103°51'31.258"W	0.00	
5529.00†	0.000	276.297	5529.00	0.00	0.00	0.00	646139.62	589950.15	32°37'15.527"N	103°51'31.258"W	0.00	
5629.00†	0.000	276.297	5629.00	0.00	0.00	0.00	646139.62	589950.15	32°37'15.527"N	103°51'31.258"W	0.00	
5729.00†	0.000	276.297	5729.00	0.00	0.00	0.00	646139.62	589950.15	32°37'15.527"N	103°51'31.258"W	0.00	
5829.00†	0.000	276.297	5829.00	0.00	0.00	0.00	646139.62	589950.15	32°37'15.527"N	103°51'31.258"W	0.00	
5929.00†	0.000	276.297	5929.00	0.00	0.00	0.00	646139.62	589950.15	32°37'15.527"N	103°51'31.258"W	0.00	
6029.00†	0.000	276.297	6029.00	0.00	0.00	0.00	646139.62	589950.15	32°37'15.527"N	103°51'31.258"W	0.00	
6129.00†	0.000	276.297	6129.00	0.00	0.00	0.00	646139.62	589950.15	32°37'15.527"N	103°51'31.258"W	0.00	
6229.00†	0.000	276.297	6229.00	0.00	0.00	0.00	646139.62	589950.15	32°37'15.527"N	103°51'31.258"W	0.00	
6329.00†	0.000	276.297	6329.00	0.00	0.00	0.00	646139.62	589950.15	32°37'15.527"N	103°51'31.258"W	0.00	
6429.00†	0.000	276.297	6429.00	0.00	0.00	0.00	646139.62	589950.15	32°37'15.527"N	103°51'31.258"W	0.00	
6529.00†	0.000	276.297	6529.00	0.00	0.00	0.00	646139.62	589950.15	32°37'15.527"N	103°51'31.258"W	0.00	
6629.00†	0.000	276.297	6629.00	0.00	0.00	0.00	646139.62	589950.15	32°37'15.527"N	103°51'31.258"W	0.00	
6729.00†	0.000	276.297	6729.00	0.00	0.00	0.00	646139.62	589950.15	32°37'15.527"N	103°51'31.258"W	0.00	
6829.00†	0.000	276.297	6829.00	0.00	0.00	0.00	646139.62	589950.15	32°37'15.527"N	103°51'31.258"W	0.00	
6929.00†	0.000	276.297	6929.00	0.00	0.00	0.00	646139.62	589950.15	32°37'15.527"N	103°51'31.258"W	0.00	
6983.00†	0.000	276.297	6983.00	0.00	0.00	0.00	646139.62	589950.15	32°37'15.527"N	103°51'31.258"W	0.00	T/Bone Spring Lime
7029.00†	0.000	276.297	7029.00	0.00	0.00	0.00	646139.62	589950.15	32°37'15.527"N	103°51'31.258"W	0.00	
7129.00†	0.000	276.297	7129.00	0.00	0.00	0.00	646139.62	589950.15	32°37'15.527"N	103°51'31.258"W	0.00	
7229.00†	0.000	276.297	7229.00	0.00	0.00	0.00	646139.62	589950.15	32°37'15.527"N	103°51'31.258"W	0.00	
7329.00†	0.000	276.297	7329.00	0.00	0.00	0.00	646139.62	589950.15	32°37'15.527"N	103°51'31.258"W	0.00	
7429.00†	0.000	276.297	7429.00	0.00	0.00	0.00	646139.62	589950.15	32°37'15.527"N	103°51'31.258"W	0.00	
7529.00†	0.000	276.297	7529.00	0.00	0.00	0.00	646139.62	589950.15	32°37'15.527"N	103°51'31.258"W	0.00	
7629.00†	0.000	276.297	7629.00	0.00	0.00	0.00	646139.62	589950.15	32°37'15.527"N	103°51'31.258"W	0.00	
7729.00†	0.000	276.297	7729.00	0.00	0.00	0.00	646139.62	589950.15	32°37'15.527"N	103°51'31.258"W	0.00	
7829.00†	0.000	276.297	7829.00	0.00	0.00	0.00	646139.62	589950.15	32°37'15.527"N	103°51'31.258"W	0.00	
7929.00†	0.000	276.297	7929.00	0.00	0.00	0.00	646139.62	589950.15	32°37'15.527"N	103°51'31.258"W	0.00	
8029.00†	0.000	276.297	8029.00	0.00	0.00	0.00	646139.62	589950.15	32°37'15.527"N	103°51'31.258"W	0.00	
8129.00†	0.000	276.297	8129.00	0.00	0.00	0.00	646139.62	589950.15	32°37'15.527"N	103°51'31.258"W	0.00	



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REFERENCE WELLPATH IDENTIFICATION			
Operator	BOPCO, L.P.	Slot	No.265H SHL
Area	Eddy County, NM	Well	No.265H
Field	Big Eddy	Wellbore	No.265H PWB
Facility	Big Eddy Unit No.265H		

WELLPATH DATA (161 stations) * = interpolated/extrapolated station												
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
8229.00†	0.000	276.297	8229.00	0.00	0.00	0.00	646139.62	589950.15	32°37'15.527"N	103°51'31.258"W	0.00	
8329.00†	0.000	276.297	8329.00	0.00	0.00	0.00	646139.62	589950.15	32°37'15.527"N	103°51'31.258"W	0.00	
8429.00†	0.000	276.297	8429.00	0.00	0.00	0.00	646139.62	589950.15	32°37'15.527"N	103°51'31.258"W	0.00	
8529.00†	0.000	276.297	8529.00	0.00	0.00	0.00	646139.62	589950.15	32°37'15.527"N	103°51'31.258"W	0.00	
8629.00†	0.000	276.297	8629.00	0.00	0.00	0.00	646139.62	589950.15	32°37'15.527"N	103°51'31.258"W	0.00	
8729.00†	0.000	276.297	8729.00	0.00	0.00	0.00	646139.62	589950.15	32°37'15.527"N	103°51'31.258"W	0.00	
8829.00†	0.000	276.297	8829.00	0.00	0.00	0.00	646139.62	589950.15	32°37'15.527"N	103°51'31.258"W	0.00	
8929.00†	0.000	276.297	8929.00	0.00	0.00	0.00	646139.62	589950.15	32°37'15.527"N	103°51'31.258"W	0.00	
9029.00†	0.000	276.297	9029.00	0.00	0.00	0.00	646139.62	589950.15	32°37'15.527"N	103°51'31.258"W	0.00	
9129.00†	0.000	276.297	9129.00	0.00	0.00	0.00	646139.62	589950.15	32°37'15.527"N	103°51'31.258"W	0.00	
9229.00†	0.000	276.297	9229.00	0.00	0.00	0.00	646139.62	589950.15	32°37'15.527"N	103°51'31.258"W	0.00	
9329.00†	0.000	276.297	9329.00	0.00	0.00	0.00	646139.62	589950.15	32°37'15.527"N	103°51'31.258"W	0.00	
9429.00†	0.000	276.297	9429.00	0.00	0.00	0.00	646139.62	589950.15	32°37'15.527"N	103°51'31.258"W	0.00	
9529.00†	0.000	276.297	9529.00	0.00	0.00	0.00	646139.62	589950.15	32°37'15.527"N	103°51'31.258"W	0.00	
9629.00†	0.000	276.297	9629.00	0.00	0.00	0.00	646139.62	589950.15	32°37'15.527"N	103°51'31.258"W	0.00	
9729.00†	0.000	276.297	9729.00	0.00	0.00	0.00	646139.62	589950.15	32°37'15.527"N	103°51'31.258"W	0.00	
9829.00†	0.000	276.297	9829.00	0.00	0.00	0.00	646139.62	589950.15	32°37'15.527"N	103°51'31.258"W	0.00	
9929.00†	0.000	276.297	9929.00	0.00	0.00	0.00	646139.62	589950.15	32°37'15.527"N	103°51'31.258"W	0.00	
10029.00†	0.000	276.297	10029.00	0.00	0.00	0.00	646139.62	589950.15	32°37'15.527"N	103°51'31.258"W	0.00	
10129.00†	0.000	276.297	10129.00	0.00	0.00	0.00	646139.62	589950.15	32°37'15.527"N	103°51'31.258"W	0.00	
10229.00†	0.000	276.297	10229.00	0.00	0.00	0.00	646139.62	589950.15	32°37'15.527"N	103°51'31.258"W	0.00	
10258.00†	0.000	276.297	10258.00	0.00	0.00	0.00	646139.62	589950.15	32°37'15.527"N	103°51'31.258"W	0.00	T/Wolfcamp
10329.00†	0.000	276.297	10329.00	0.00	0.00	0.00	646139.62	589950.15	32°37'15.527"N	103°51'31.258"W	0.00	
10429.00†	0.000	276.297	10429.00	0.00	0.00	0.00	646139.62	589950.15	32°37'15.527"N	103°51'31.258"W	0.00	
10529.00†	0.000	276.297	10529.00	0.00	0.00	0.00	646139.62	589950.15	32°37'15.527"N	103°51'31.258"W	0.00	
10594.54	0.000	276.297	10594.54	0.00	0.00	0.00	646139.62	589950.15	32°37'15.527"N	103°51'31.258"W	0.00	Est KOP
10629.00†	4.135	276.297	10628.97	1.24	0.14	-1.24	646138.39	589950.29	32°37'15.528"N	103°51'31.272"W	12.00	
10729.00†	16.135	276.297	10727.23	18.81	2.06	-18.69	646120.93	589952.21	32°37'15.548"N	103°51'31.476"W	12.00	
10829.00†	28.135	276.297	10819.69	56.42	6.19	-56.08	646083.55	589956.34	32°37'15.591"N	103°51'31.913"W	12.00	
10929.00†	40.135	276.297	10902.31	112.43	12.33	-111.75	646027.88	589962.48	32°37'15.654"N	103°51'32.564"W	12.00	



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REFERENCE WELLPATH IDENTIFICATION			
Operator	BOPCO, L.P.	Slot	No.265H SHL
Area	Eddy County, NM	Well	No.265H
Field	Big Eddy	Wellbore	No.265H PWB
Facility	Big Eddy Unit No.265H		

WELLPATH DATA (161 stations) † = interpolated/extrapolated station												
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
11029.00†	52.135	276.297	10971.48	184.40	20.22	-183.28	645956.35	589970.38	32°37'15.735"N	103°51'33.399"W	12.00	
11129.00†	64.135	276.297	11024.18	269.17	29.52	-267.55	645872.09	589979.67	32°37'15.831"N	103°51'34.384"W	12.00	
11229.00†	76.135	276.297	11058.09	363.05	39.82	-360.86	645778.79	589989.97	32°37'15.937"N	103°51'35.475"W	12.00	
11329.00†	88.135	276.297	11071.75	461.93	50.66	-459.14	645680.51	590000.81	32°37'16.048"N	103°51'36.623"W	12.00	
11345.90†	90.163	276.297	11072.00	478.83	52.52	-475.94	645663.72	590002.67	32°37'16.067"N	103°51'36.819"W	12.00	EOC
11429.00†	90.163	276.297	11071.77	561.92	61.63	-558.53	645581.13	590011.78	32°37'16.161"N	103°51'37.784"W	0.00	
11529.00†	90.163	276.297	11071.48	661.92	72.60	-657.93	645481.74	590022.75	32°37'16.274"N	103°51'38.946"W	0.00	
11629.00†	90.163	276.297	11071.20	761.92	83.57	-757.33	645382.35	590033.71	32°37'16.387"N	103°51'40.108"W	0.00	
11729.00†	90.163	276.297	11070.91	861.92	94.54	-856.72	645282.96	590044.68	32°37'16.500"N	103°51'41.269"W	0.00	
11829.00†	90.163	276.297	11070.63	961.92	105.50	-956.12	645183.57	590055.65	32°37'16.613"N	103°51'42.431"W	0.00	
11929.00†	90.163	276.297	11070.34	1061.92	116.47	-1055.52	645084.18	590066.62	32°37'16.726"N	103°51'43.592"W	0.00	
12029.00†	90.163	276.297	11070.05	1161.92	127.44	-1154.91	644984.79	590077.58	32°37'16.839"N	103°51'44.754"W	0.00	
12129.00†	90.163	276.297	11069.77	1261.92	138.41	-1254.31	644885.40	590088.55	32°37'16.952"N	103°51'45.915"W	0.00	
12229.00†	90.163	276.297	11069.48	1361.92	149.38	-1353.70	644786.01	590099.52	32°37'17.064"N	103°51'47.077"W	0.00	
12329.00†	90.163	276.297	11069.20	1461.92	160.34	-1453.10	644686.62	590110.49	32°37'17.177"N	103°51'48.238"W	0.00	
12429.00†	90.163	276.297	11068.91	1561.92	171.31	-1552.50	644587.23	590121.45	32°37'17.290"N	103°51'49.400"W	0.00	
12529.00†	90.163	276.297	11068.63	1661.92	182.28	-1651.89	644487.84	590132.42	32°37'17.403"N	103°51'50.561"W	0.00	
12629.00†	90.163	276.297	11068.34	1761.92	193.25	-1751.29	644388.45	590143.39	32°37'17.516"N	103°51'51.723"W	0.00	
12729.00†	90.163	276.297	11068.06	1861.92	204.22	-1850.69	644289.06	590154.36	32°37'17.629"N	103°51'52.884"W	0.00	
12829.00†	90.163	276.297	11067.77	1961.92	215.19	-1950.08	644189.67	590165.32	32°37'17.742"N	103°51'54.046"W	0.00	
12929.00†	90.163	276.297	11067.49	2061.92	226.15	-2049.48	644090.28	590176.29	32°37'17.855"N	103°51'55.207"W	0.00	
13029.00†	90.163	276.297	11067.20	2161.92	237.12	-2148.87	643990.90	590187.26	32°37'17.967"N	103°51'56.369"W	0.00	
13129.00†	90.163	276.297	11066.92	2261.92	248.09	-2248.27	643891.51	590198.22	32°37'18.080"N	103°51'57.530"W	0.00	
13229.00†	90.163	276.297	11066.63	2361.92	259.06	-2347.67	643792.12	590209.19	32°37'18.193"N	103°51'58.692"W	0.00	
13329.00†	90.163	276.297	11066.35	2461.92	270.03	-2447.06	643692.73	590220.16	32°37'18.306"N	103°51'59.853"W	0.00	
13429.00†	90.163	276.297	11066.06	2561.92	280.99	-2546.46	643593.34	590231.13	32°37'18.419"N	103°52'01.015"W	0.00	
13529.00†	90.163	276.297	11065.78	2661.92	291.96	-2645.86	643493.95	590242.09	32°37'18.532"N	103°52'02.176"W	0.00	
13629.00†	90.163	276.297	11065.49	2761.92	302.93	-2745.25	643394.56	590253.06	32°37'18.644"N	103°52'03.338"W	0.00	
13729.00†	90.163	276.297	11065.21	2861.92	313.90	-2844.65	643295.17	590264.03	32°37'18.757"N	103°52'04.500"W	0.00	
13829.00†	90.163	276.297	11064.92	2961.91	324.87	-2944.05	643195.78	590275.00	32°37'18.870"N	103°52'05.661"W	0.00	



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REFERENCE WELLPATH IDENTIFICATION

Operator	BOPCO, L.P.	Slot	No.265H SHL
Area	Eddy County, NM	Well	No.265H
Field	Big Eddy	Wellbore	No.265H PWB
Facility	Big Eddy Unit No.265H		

WELLPATH DATA (161 stations) = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
13929.00†	90.163	276.297	11064.64	3061.91	335.83	-3043.44	643096.39	590285.96	32°37'18.983"N	103°52'06.823"W	0.00	
14029.00†	90.163	276.297	11064.35	3161.91	346.80	-3142.84	642997.00	590296.93	32°37'19.096"N	103°52'07.984"W	0.00	
14129.00†	90.163	276.297	11064.07	3261.91	357.77	-3242.23	642897.61	590307.90	32°37'19.209"N	103°52'09.146"W	0.00	
14229.00†	90.163	276.297	11063.78	3361.91	368.74	-3341.63	642798.22	590318.86	32°37'19.321"N	103°52'10.307"W	0.00	
14329.00†	90.163	276.297	11063.50	3461.91	379.71	-3441.03	642698.83	590329.83	32°37'19.434"N	103°52'11.469"W	0.00	
14429.00†	90.163	276.297	11063.21	3561.91	390.67	-3540.42	642599.44	590340.80	32°37'19.547"N	103°52'12.630"W	0.00	
14529.00†	90.163	276.297	11062.93	3661.91	401.64	-3639.82	642500.05	590351.77	32°37'19.660"N	103°52'13.792"W	0.00	
14629.00†	90.163	276.297	11062.64	3761.91	412.61	-3739.22	642400.66	590362.73	32°37'19.773"N	103°52'14.953"W	0.00	
14729.00†	90.163	276.297	11062.36	3861.91	423.58	-3838.61	642301.27	590373.70	32°37'19.885"N	103°52'16.115"W	0.00	
14829.00†	90.163	276.297	11062.07	3961.91	434.55	-3938.01	642201.88	590384.67	32°37'19.998"N	103°52'17.276"W	0.00	
14853.62	90.163	276.297	11062.00	3986.53	437.25	-3962.48	642177.41	590387.37	32°37'20.026"N	103°52'17.562"W	0.00	No. 265H PBHL

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
1) No.265H PBHL	14853.62	11062.00	437.25	-3962.48	642177.41	590387.37	32°37'20.026"N	103°52'17.562"W	point

SURVEY PROGRAM Ref Wellbore: No.265H PWB Ref Wellpath: Rev-C.0

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
29.00	14853.62	NaviTrak (Standard)		No.265H PWB

PECOS DISTRICT CONDITIONS OF APPROVAL

OPERATOR'S NAME:	BOPCO
LEASE NO.:	LC069705
WELL NAME & NO.:	265H Big Eddy Unit
SURFACE HOLE FOOTAGE:	1120' / FNL & 1980' / FWL
BOTTOM HOLE FOOTAGE:	660' / FNL & 1980' / FEL, Sec.33
LOCATION:	Section 34, T.19 S., R.31 E., NMPM
COUNTY:	Eddy County, New Mexico

A. DRILLING OPERATIONS REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)

☒ **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. **If the drilling rig is removed without approval – an Incident of Non-Compliance will be written and will be a “Major” violation.**
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 is located, this does not include the dog house or stairway area.
4. **The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall 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 program need prior approval if the items substituted are of lesser grade or different casing size. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#).

Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.).

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

Wait on cement (WOC) time prior to drilling out 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. DURING THIS WOC TIME, NO DRILL PIPE, ETC. SHALL BE RUN IN THE HOLE. 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.

Secretary's Potash

Possible lost circulation in the Artesia Group and the Capitan Reef.

Possible water flows in the Salado and Artesia Groups.

1. The **16** inch surface casing shall be set at approximately **1170** feet (a minimum of 25 feet into the Rustler Anhydrite and above the salt) and cemented to the surface.
 - 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 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 **13-3/8** inch intermediate casing is:

- ☒ 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.

3. The minimum required fill of cement behind the **9-5/8** inch intermediate casing is:
(Set casing into the base of the Capitan reef at approximately 4250')

- ☒ 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.

**Formation below the 9-5/8" shoe to be tested according to Onshore Order 2.III.B.1.i.
Test to be done as a mud equivalency test using the mud weight necessary for the pore pressure of the formation below the shoe and the mud weight for the bottom of the hole. Report results to BLM office.**

4. 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 first DV tool, cement shall:

- ☒ Cement to surface. If cement does not circulate, contact the appropriate BLM office. **Additional cement may be required – excess calculates to 20%.**

**Formation below the 7" shoe to be tested according to Onshore Order 2.III.B.1.i.
Test to be done as a mud equivalency test using the mud weight necessary for the pore pressure of the formation below the shoe and the mud weight for the bottom of the hole. Report results to BLM office.**

5. The minimum required fill of cement behind the **4-1/2** inch production liner is:

- ☒ Cement to top of liner. If cement does not circulate, contact the appropriate BLM office.

6. 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 operation

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. Variance approved to use flex line from BOP to choke manifold. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. **Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review.** If the BLM inspector questions the straightness of the hose, a BLM engineer will be contacted and will review in the field or via picture supplied by inspector to determine if changes are required (operator shall expect delays if this occurs).
3. **A variance is granted for the use of a diverter on the 20" surface casing.**
4. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the **13-3/8** inch intermediate casing shoe shall be **3000 (3M)** psi.
 - 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.
5. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the **9-5/8** inch intermediate casing shoe shall be **5000 (5M)** psi.
6. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the plug. However, **no tests** shall commence until the cement has had a minimum of 24 hours setup time.

- b. The tests shall be done by an independent service company utilizing a test plug **not a cup or J-packer**. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (18 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
- c. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock.
- d. The results of the test shall be reported to the appropriate BLM office.
- e. 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.**
- f. 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. This test shall be performed prior to the test at full stack pressure.
- g. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the **Wolfcamp** formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

D. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the **Wolfcamp** formation, and shall be used until production casing is run and cemented.

E. DRILL STEM TEST

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

F. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

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