

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM 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.*5. Lease Serial No.
NMNM02447

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.
891000326X8. Well Name and No.
BIG EDDY UNIT 258H9. API Well No.
30-015-42218-00-X110. Field and Pool, or Exploratory
HACKBERRY11. County or Parish, and State
EDDY COUNTY, NM**SUBMIT IN TRIPLICATE - Other instructions on reverse side**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other2. Name of Operator
BOPCO LPContact: WHITNEY MCKEE
E-Mail: wbmckee@basspet.com

3a. Address

MIDLAND, TX 79702

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

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

Sec 27 T19S R31E SESE 700FSL 10FEL
32.373357 N Lat, 103.505285 W Lon**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	Change to Original A
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	PD

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 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. respectfully requests permission to amend the casing program for Big Eddy Unit 258H.

This will be accomplished by drilling an 8-3/4" production hole from the 9-5/8" 2nd intermediate casing to TD of the well. The production string will be cased using a 7", 26#, HCP-110, BTC by 5-1/2", 17#, HCP-110, BTC tapered long string and then cemented in two stages with the 2nd stage to tie back 50' above the Capitan Reef to 2,685'. The 7" stage tool will be placed at approximately 5,000'. Please find the casing and cement revisions below. Please find attached the most recent directional plan for reference.

Revised Casing Program:

Type Interval (MD) Hole Size
7", 26#, HCP-110, BTC 0' ? 8,527' (KOP) 8-3/4"
5-1/2", 17#, HCP-110, BTC 8,527' ? 14,411' 8-3/4"

Accepted for record

NMOC

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

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MAY 15 2014

NMOC ARTESIA

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

Electronic Submission #241429 verified by the BLM Well Information System

For BOPCO LP, sent to the Carlsbad

Committed to AFMSS for processing by CHRISTOPHER WALLS on 05/02/2014 (14CRW0254SE)

Name (Printed/Typed) CHRIS GIESE

Title DRILLING ENGINEER

Signature

(Electronic Submission)

Date 04/07/2014

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By (BLM Approver Not Specified) /s/ Chris Walls

Title

Date 05/02/2014

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 Carlsbad

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.

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

Additional data for EC transaction #241429 that would not fit on the form

32. Additional remarks, continued

Casing Program Safety Factors:

Type Tension Collapse Burst

7?, 26#, HCP-110, BTC 4.41 1.39 3.85

5-1/2?, 17#, HCP-110, BTC 4.07 1.78 2.08

Cementing Program: Please see below for updates to cement program

7? X 5-1/2? Production cement (caliper volume + 30% excess)

1st Stage

Lead Slurry: Versacem-H + 8% WY Bentonite + 0.5 lb/sk D-Aire 5000 + 0.7% HR-601 + 0.125 lb/sack

Pol-E-Flake

Lead Volume: 350 sacks

Lead Details: 11 ppg, 2.64 ft³/sk yield, H₂O 14.84 gal/sk

Top of Lead: DV Tool (+/- 5,000?)

Tail Slurry: Versacem H System + 0.5% LAP1 + 0.3% CFR-3 + 0.5 lb/sk D-Air5000+0.1

FWCA+0.15%HR-601+0.125 Pol-E-Flake

Tail Volume: 1,900 sacks

Tail Details: 13.0 ppg, 1.67 ft³/sk yield, H₂O 8.88 gal/sk

Top of Tail: KOP (8,527?)

2nd Stage

Lead Slurry: Versacem-C + 8% WY Bentonite + 0.5 lb/sk D-Air 5000 + 1 bl/sk Cal-Seal 60 + 0.125

lb/sack Pol-E-Flake

Lead Volume: 175 sacks

Lead Details: 11.90 ppg, 2.25 ft³/sk yield, H₂O 12.80 gal/sk

Top of Lead: 50? Above Capitan Reef (2,692?)

Tail Slurry: Cemex Premium Plus C

Tail Volume: 125 sacks

Tail Details: 14.8 ppg, 1.33 ft³/sk yield, H₂O 6.34 gal/sk

Top of Tail: 9-5/8? Casing Shoe (4,258?)

BOPCO, L.P. respectfully requests permission to amend the casing program for Big Eddy Unit 258H. This will be accomplished by drilling an 8-3/4" production hole from the 9-5/8" 2nd intermediate casing to TD of the well. The production string will be cased using a 7", 26#, HCP-110, BTC by 5-1/2", 17#, HCP-110, BTC tapered long string and then cemented in two stages with the 2nd stage to tie back 50' above the Capitan Reef to 2,685'. The 7" stage tool will be placed at approximately 5,000'. Please find the casing and cement revisions below. Please find attached the most recent directional plan for reference.

Revised Casing Program:

Type	Interval (MD)	Hole Size
7", 26#, HCP-110, BTC	0' – 8,527' (KOP)	8-3/4"
5-1/2", 17#, HCP-110, BTC	8,527' – 14,411'	8-3/4"

Casing Program Safety Factors:

Type	Tension	Collapse	Burst
7", 26#, HCP-110, BTC	4.41	1.39	3.85
5-1/2", 17#, HCP-110, BTC	4.07	1.78	2.08

Cementing Program: Please see below for updates to cement program

7" X 5-1/2" Production cement (caliper volume + 30% excess)

1st Stage

Lead Slurry: Versacem-H + 8% WY Bentonite + 0.5 lb/sk D-Aire 5000 + 0.7% HR-601 + 0.125 lb/sack Pol-E-Flake

Lead Volume: 350 sacks

Lead Details: 11 ppg, 2.64 ft³/sk yield, H₂O 14.84 gal/sk

Top of Lead: DV Tool (+/- 5,000')

Tail Slurry: Versacem H System + 0.5% LAP1 + 0.3% CFR-3 + 0.5 lb/sk D-Air5000+0.1 FWCA+0.15%HR-601+0.125 Pol-E-Flake

Tail Volume: 1,900 sacks

Tail Details: 13.0 ppg, 1.67 ft³/sk yield, H₂O 8.88 gal/sk

Top of Tail: KOP (8,527')

2nd Stage

Lead Slurry: Versacem-C + 8% WY Bentonite + 0.5 lb/sk D-Air 5000 + 1 bl/sk Cal-Seal 60 + 0.125 lb/sack Pol-E-Flake

Lead Volume: 175 sacks

Lead Details: 11.90 ppg, 2.25 ft³/sk yield, H₂O 12.80 gal/sk

Top of Lead: 50' Above Capitan Reef (2,692')

Tail Slurry: Cemex Premium Plus C

Tail Volume: 125 sacks

Tail Details: 14.8 ppg, 1.33 ft³/sk yield, H₂O 6.34 gal/sk

Top of Tail: 9-5/8" Casing Shoe (4,258')



BOPCO, L.P.



Location: Eddy County, NM
Field: Big Eddy
Facility: Big Eddy Unit No.258H & No. 259H

Slot: No. 258H SHL
Well: No. 258H
Wellbore: No. 258H (PWB)

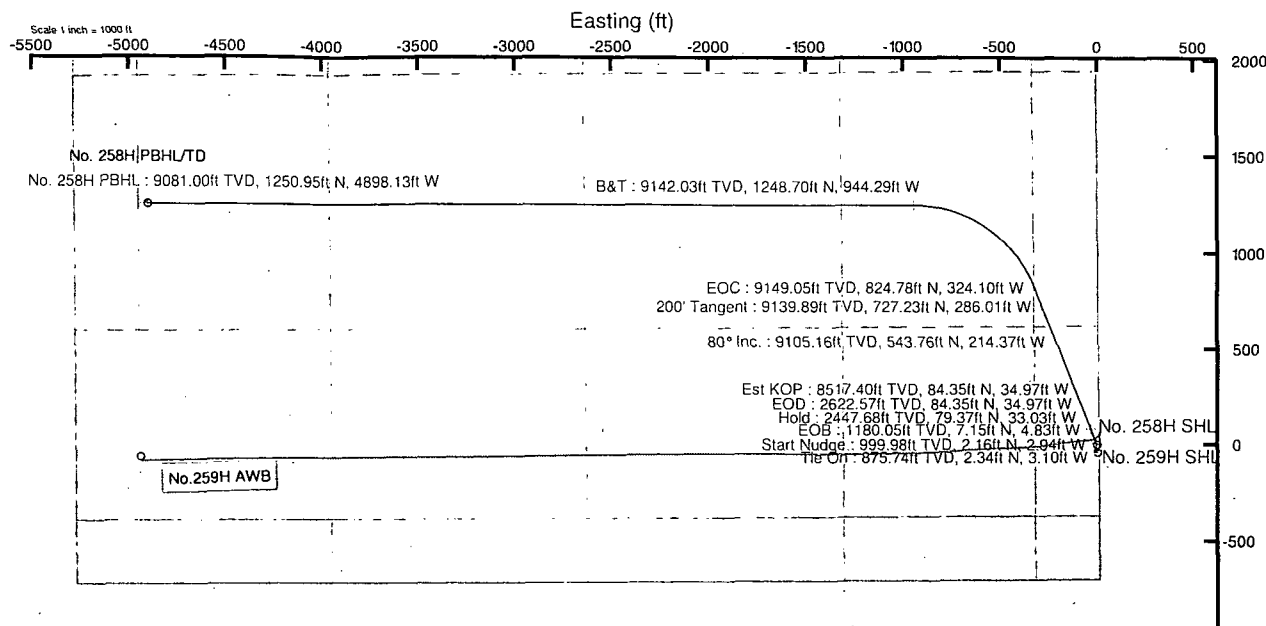
Tie On : 0.11° Inc, 875.76ft MD, 875.74ft TVD, 3.58ft VS
Start Nudge : 0.11° Inc, 1000.00ft MD, 999.98ft TVD, 3.38ft VS
2.00°/100ft
EOB : 3.50° Inc, 1180.17ft MD, 1180.05ft TVD, 6.45ft VS

Hold : 3.50° Inc, 2450.17ft MD, 2447.68ft TVD, 51.64ft VS
2.00°/100ft
EOD : 0.00° Inc, 2625.17ft MD, 2622.57ft TVD, 54.76ft VS

HOBBS OCD

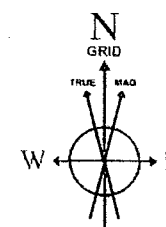
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Well Profile Data								
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	875.76	0.110	138.480	875.74	2.34	-3.10	0.05	3.58
Start Nudge	1000.00	0.110	138.480	999.98	2.16	-2.94	0.00	3.38
EOB	1180.17	3.500	338.670	1180.05	7.15	-4.83	2.00	6.45
Hold	2450.17	3.500	338.670	2447.68	79.37	-33.03	0.00	51.64
EOD	2625.17	0.000	338.670	2622.57	84.35	-34.97	2.00	54.76
Est KOP	8520.00	0.000	338.670	8517.40	84.35	-34.97	0.00	54.76
80° Inc.	9353.33	80.000	338.670	9105.16	543.76	-214.37	9.60	342.25
200' Tangent	9553.33	80.000	338.670	9139.89	727.23	-286.01	0.00	457.07
EOC	9658.60	90.000	338.670	9149.05	824.78	-324.10	9.50	518.12
B&T	10456.74	90.884	270.033	9142.03	1248.70	-944.29	8.60	1223.92
No. 258H PBHL	14411.04	90.884	270.033	9081.00	1250.95	-4898.13	0.00	5055.35

Plot reference wellpath is Rev-H.0	
True vertical depths are referenced to Rig on No. 258H SHL (KB)	Grid System: NAD27 / TM New Mexico SP, Eastern Zone (3001), US feet
Measured depths are referenced to Rig on No. 258H SHL (KB)	North Reference: Grid north
Rig on No. 258H SHL (KB) to Mean Sea Level: 3502 feet	Scale: True distance
Mean Sea Level to Mud line (At Slot: No. 258H SHL): -3472 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: harrick on 3/31/2014



BGGM (1945.0 to 2014.0) Dip: 60.43° Field: 48635.1 nT
Magnetic North is 7.64 degrees East of True North (at 2/27/2013)
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 7.38 degrees

Est KOP : 0.00° Inc, 8520.00ft MD, 8517.40ft TVD, 54.76ft VS

9.60°/100ft 80° Inc : 80.00° Inc, 9353.33ft MD, 9105.16ft TVD, 342.25ft VS
200' Tangent : 80.00° Inc, 9553.33ft MD, 9139.89ft TVD, 457.07ft VS
EOC : 80.00° Inc, 9658.60ft MD, 9149.05ft TVD, 518.12ft VS

9.50°/100ft 8.60°/100ft B&T : 90.88° Inc, 10456.74ft MD, 9142.03ft TVD, 1223.92ft VS

No. 258H PBHL/TD
No. 258H PBHL : 90.88° Inc, 14411.04ft MD, 9081.00ft TVD, 5055.35ft VS

Vertical Section (ft)

Azimuth 284.33° with reference 0.00 N, 0.00 E

Scale 1 inch = 1200 ft

Rev-H.0



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MAY 12 2014 Planned Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION			
Operator	BOPCO, L.P.	Slot	No. 258H SHL
Area	Eddy County, NM	Well	No. 258H
Field	Big Eddy	Wellbore	No. 258H (PWB)
Facility	Big Eddy Unit No.258H & No. 259H		

REPORT SETUP INFORMATION			
Projection System	NAD27 / TM New Mexico SP, Eastern Zone (3001), US feet	Software System	WellArchitect® 4.0.0
North Reference	Grid	User	Harrkol
Scale	0.999935	Report Generated	3/31/2014 at 3:19:21 PM
Convergence at slot	0.26° East	Database/Source file	WA Midland/No. _258H _PWB_.xml

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	0.00	0.00	649416.23	591788.70	32°37'33.574"N	103°50'52.849"W
Facility Reference Pt			649416.23	591788.70	32°37'33.574"N	103°50'52.849"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. 258H SHL (KB) to Facility Vertical Datum	30.00ft
Horizontal Reference Pt	Slot	Rig on No. 258H SHL (KB) to Mean Sea Level	3502.00ft
Vertical Reference Pt	Rig on No. 258H SHL (KB)	Rig on No. 258H SHL (KB) to Mud Line at Slot (No. 258H SHL)	30.00ft
MD Reference Pt	Rig on No. 258H SHL (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	284.33°



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REFERENCE WELLPATH IDENTIFICATION			
Operator	BOPCO, L.P.	Slot	No. 258H SHL
Area	Eddy County, NM	Well	No. 258H
Field	Big Eddy	Wellbore	No. 258H (PWB)
Facility	Big Eddy Unit No.258H & No. 259H		

WELLPATH DATA (166 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	355.800	0.00	0.00	0.00	0.00	649416.23	591788.70	32°37'33.574"N	103°50'52.849"W	0.00	
86.65	0.560	355.800	86.65	0.13	0.42	-0.03	649416.20	591789.12	32°37'33.578"N	103°50'52.849"W	0.65	
167.64	0.510	328.050	167.64	0.52	1.12	-0.25	649415.98	591789.82	32°37'33.585"N	103°50'52.852"W	0.32	
260.70	0.470	323.770	260.69	1.11	1.78	-0.70	649415.53	591790.48	32°37'33.591"N	103°50'52.857"W	0.06	
356.53†	0.300	296.250	356.52	1.66	2.21	-1.15	649415.08	591790.91	32°37'33.595"N	103°50'52.862"W	0.26	
449.80	0.300	280.060	449.79	2.15	2.36	-1.61	649414.62	591791.06	32°37'33.597"N	103°50'52.868"W	0.09	
543.05	0.390	254.800	543.04	2.67	2.32	-2.16	649414.07	591791.02	32°37'33.597"N	103°50'52.874"W	0.19	
636.04	0.330	281.300	636.03	3.21	2.29	-2.73	649413.50	591790.99	32°37'33.596"N	103°50'52.881"W	0.19	
728.25	0.170	307.400	728.23	3.60	2.42	-3.10	649413.13	591791.12	32°37'33.598"N	103°50'52.885"W	0.21	
822.07†	0.120	151.520	822.05	3.66	2.42	-3.16	649413.07	591791.12	32°37'33.598"N	103°50'52.886"W	0.30	
875.76	0.110	138.480	875.74	3.58	2.34	-3.10	649413.13	591791.03	32°37'33.597"N	103°50'52.885"W	0.05	Tie On
878.02†	0.110	138.480	878.00	3.58	2.33	-3.10	649413.13	591791.03	32°37'33.597"N	103°50'52.885"W	0.00	Top Rustler Anhydrite
975.76†	0.110	138.480	975.74	3.42	2.19	-2.97	649413.26	591790.89	32°37'33.595"N	103°50'52.883"W	0.00	
1000.00	0.110	138.480	999.98	3.38	2.16	-2.94	649413.29	591790.86	32°37'33.595"N	103°50'52.883"W	0.00	Start Nudge
1075.76†	1.412	339.563	1075.74	3.85	2.98	-3.22	649413.01	591791.68	32°37'33.603"N	103°50'52.886"W	2.00	
1175.76†	3.412	338.686	1175.64	6.29	6.90	-4.73	649411.50	591795.60	32°37'33.642"N	103°50'52.904"W	2.00	
1180.17	3.500	338.670	1180.05	6.45	7.15	-4.83	649411.40	591795.85	32°37'33.645"N	103°50'52.905"W	2.00	EOB
1275.76†	3.500	338.670	1275.46	9.85	12.59	-6.95	649409.28	591801.29	32°37'33.698"N	103°50'52.929"W	0.00	
1309.37†	3.500	338.670	1309.00	11.04	14.50	-7.70	649408.53	591803.20	32°37'33.717"N	103°50'52.938"W	0.00	Top Salt
1375.76†	3.500	338.670	1375.27	13.41	18.27	-9.17	649407.06	591806.97	32°37'33.755"N	103°50'52.955"W	0.00	
1475.76†	3.500	338.670	1475.08	16.97	23.96	-11.39	649404.84	591812.66	32°37'33.811"N	103°50'52.981"W	0.00	
1575.76†	3.500	338.670	1574.90	20.52	29.65	-13.61	649402.62	591818.35	32°37'33.868"N	103°50'53.006"W	0.00	
1675.76†	3.500	338.670	1674.71	24.08	35.33	-15.83	649400.40	591824.03	32°37'33.924"N	103°50'53.032"W	0.00	
1775.76†	3.500	338.670	1774.52	27.64	41.02	-18.05	649398.18	591829.72	32°37'33.980"N	103°50'53.058"W	0.00	
1875.76†	3.500	338.670	1874.34	31.20	46.71	-20.27	649395.96	591835.40	32°37'34.037"N	103°50'53.083"W	0.00	
1975.76†	3.500	338.670	1974.15	34.76	52.39	-22.49	649393.74	591841.09	32°37'34.093"N	103°50'53.109"W	0.00	
2075.76†	3.500	338.670	2073.96	38.32	58.08	-24.71	649391.52	591846.78	32°37'34.149"N	103°50'53.135"W	0.00	
2175.76†	3.500	338.670	2173.78	41.88	63.77	-26.93	649389.30	591852.46	32°37'34.206"N	103°50'53.160"W	0.00	
2246.11†	3.500	338.670	2244.00	44.38	67.77	-28.50	649387.73	591856.46	32°37'34.245"N	103°50'53.178"W	0.00	Base Salt
2275.76†	3.500	338.670	2273.59	45.44	69.45	-29.16	649387.08	591858.15	32°37'34.262"N	103°50'53.186"W	0.00	



Planned Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION

Operator	BOPCO, L.P.	Slot	No. 258H SHL
Area	Eddy County, NM	Well	No. 258H
Field	Big Eddy	Wellbore	No. 258H (PWB)
Facility	Big Eddy Unit No.258H & No. 259H		

WELLPATH DATA (166 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
2375.76†	3.500	338.670	2373.40	48.99	75.14	-31.38	649384.86	591863.84	32°37'34.318"N	103°50'53.212"W	0.00	
2450.17	3.500	338.670	2447.68	51.64	79.37	-33.03	649383.20	591868.07	32°37'34.360"N	103°50'53.231"W	0.00	Hold
2475.76†	2.988	338.670	2473.22	52.49	80.72	-33.55	649382.68	591869.42	32°37'34.374"N	103°50'53.237"W	2.00	
2575.76†	0.988	338.670	2573.16	54.51	83.95	-34.82	649381.42	591872.65	32°37'34.406"N	103°50'53.251"W	2.00	
2625.17	0.000	338.670	2622.57	54.76	84.35	-34.97	649381.26	591873.04	32°37'34.410"N	103°50'53.253"W	2.00	EOD
2675.76†	0.000	338.670	2673.16	54.76	84.35	-34.97	649381.26	591873.04	32°37'34.410"N	103°50'53.253"W	0.00	
2744.60†	0.000	338.670	2742.00	54.76	84.35	-34.97	649381.26	591873.04	32°37'34.410"N	103°50'53.253"W	0.00	Top of Reef
2775.76†	0.000	338.670	2773.16	54.76	84.35	-34.97	649381.26	591873.04	32°37'34.410"N	103°50'53.253"W	0.00	
2875.76†	0.000	338.670	2873.16	54.76	84.35	-34.97	649381.26	591873.04	32°37'34.410"N	103°50'53.253"W	0.00	
2975.76†	0.000	338.670	2973.16	54.76	84.35	-34.97	649381.26	591873.04	32°37'34.410"N	103°50'53.253"W	0.00	
3075.76†	0.000	338.670	3073.16	54.76	84.35	-34.97	649381.26	591873.04	32°37'34.410"N	103°50'53.253"W	0.00	
3175.76†	0.000	338.670	3173.16	54.76	84.35	-34.97	649381.26	591873.04	32°37'34.410"N	103°50'53.253"W	0.00	
3275.76†	0.000	338.670	3273.16	54.76	84.35	-34.97	649381.26	591873.04	32°37'34.410"N	103°50'53.253"W	0.00	
3375.76†	0.000	338.670	3373.16	54.76	84.35	-34.97	649381.26	591873.04	32°37'34.410"N	103°50'53.253"W	0.00	
3475.76†	0.000	338.670	3473.16	54.76	84.35	-34.97	649381.26	591873.04	32°37'34.410"N	103°50'53.253"W	0.00	
3575.76†	0.000	338.670	3573.16	54.76	84.35	-34.97	649381.26	591873.04	32°37'34.410"N	103°50'53.253"W	0.00	
3675.76†	0.000	338.670	3673.16	54.76	84.35	-34.97	649381.26	591873.04	32°37'34.410"N	103°50'53.253"W	0.00	
3775.76†	0.000	338.670	3773.16	54.76	84.35	-34.97	649381.26	591873.04	32°37'34.410"N	103°50'53.253"W	0.00	
3875.76†	0.000	338.670	3873.16	54.76	84.35	-34.97	649381.26	591873.04	32°37'34.410"N	103°50'53.253"W	0.00	
3975.76†	0.000	338.670	3973.16	54.76	84.35	-34.97	649381.26	591873.04	32°37'34.410"N	103°50'53.253"W	0.00	
4075.76†	0.000	338.670	4073.16	54.76	84.35	-34.97	649381.26	591873.04	32°37'34.410"N	103°50'53.253"W	0.00	
4175.76†	0.000	338.670	4173.16	54.76	84.35	-34.97	649381.26	591873.04	32°37'34.410"N	103°50'53.253"W	0.00	
4210.60†	0.000	338.670	4208.00	54.76	84.35	-34.97	649381.26	591873.04	32°37'34.410"N	103°50'53.253"W	0.00	Top Del. Mtn. Grp.
4275.76†	0.000	338.670	4273.16	54.76	84.35	-34.97	649381.26	591873.04	32°37'34.410"N	103°50'53.253"W	0.00	
4375.76†	0.000	338.670	4373.16	54.76	84.35	-34.97	649381.26	591873.04	32°37'34.410"N	103°50'53.253"W	0.00	
4475.76†	0.000	338.670	4473.16	54.76	84.35	-34.97	649381.26	591873.04	32°37'34.410"N	103°50'53.253"W	0.00	
4575.76†	0.000	338.670	4573.16	54.76	84.35	-34.97	649381.26	591873.04	32°37'34.410"N	103°50'53.253"W	0.00	
4675.76†	0.000	338.670	4673.16	54.76	84.35	-34.97	649381.26	591873.04	32°37'34.410"N	103°50'53.253"W	0.00	
4775.76†	0.000	338.670	4773.16	54.76	84.35	-34.97	649381.26	591873.04	32°37'34.410"N	103°50'53.253"W	0.00	
4875.76†	0.000	338.670	4873.16	54.76	84.35	-34.97	649381.26	591873.04	32°37'34.410"N	103°50'53.253"W	0.00	



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REFERENCE WELLPATH IDENTIFICATION			
Operator	BOPCO, L.P.	Slot	No. 258H SHL
Area	Eddy County, NM	Well	No. 258H
Field	Big Eddy	Wellbore	No. 258H (PWB)
Facility	Big Eddy Unit No.258H & No. 259H		

WELLPATH DATA (166 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
4975.76†	0.000	338.670	4973.16	54.76	84.35	-34.97	649381.26	591873.04	32°37'34.410"N	103°50'53.253"W	0.00	
5075.76†	0.000	338.670	5073.16	54.76	84.35	-34.97	649381.26	591873.04	32°37'34.410"N	103°50'53.253"W	0.00	
5175.76†	0.000	338.670	5173.16	54.76	84.35	-34.97	649381.26	591873.04	32°37'34.410"N	103°50'53.253"W	0.00	
5275.76†	0.000	338.670	5273.16	54.76	84.35	-34.97	649381.26	591873.04	32°37'34.410"N	103°50'53.253"W	0.00	
5375.76†	0.000	338.670	5373.16	54.76	84.35	-34.97	649381.26	591873.04	32°37'34.410"N	103°50'53.253"W	0.00	
5475.76†	0.000	338.670	5473.16	54.76	84.35	-34.97	649381.26	591873.04	32°37'34.410"N	103°50'53.253"W	0.00	
5575.76†	0.000	338.670	5573.16	54.76	84.35	-34.97	649381.26	591873.04	32°37'34.410"N	103°50'53.253"W	0.00	
5675.76†	0.000	338.670	5673.16	54.76	84.35	-34.97	649381.26	591873.04	32°37'34.410"N	103°50'53.253"W	0.00	
5775.76†	0.000	338.670	5773.16	54.76	84.35	-34.97	649381.26	591873.04	32°37'34.410"N	103°50'53.253"W	0.00	
5875.76†	0.000	338.670	5873.16	54.76	84.35	-34.97	649381.26	591873.04	32°37'34.410"N	103°50'53.253"W	0.00	
5975.76†	0.000	338.670	5973.16	54.76	84.35	-34.97	649381.26	591873.04	32°37'34.410"N	103°50'53.253"W	0.00	
6075.76†	0.000	338.670	6073.16	54.76	84.35	-34.97	649381.26	591873.04	32°37'34.410"N	103°50'53.253"W	0.00	
6175.76†	0.000	338.670	6173.16	54.76	84.35	-34.97	649381.26	591873.04	32°37'34.410"N	103°50'53.253"W	0.00	
6275.76†	0.000	338.670	6273.16	54.76	84.35	-34.97	649381.26	591873.04	32°37'34.410"N	103°50'53.253"W	0.00	
6375.76†	0.000	338.670	6373.16	54.76	84.35	-34.97	649381.26	591873.04	32°37'34.410"N	103°50'53.253"W	0.00	
6475.76†	0.000	338.670	6473.16	54.76	84.35	-34.97	649381.26	591873.04	32°37'34.410"N	103°50'53.253"W	0.00	
6575.76†	0.000	338.670	6573.16	54.76	84.35	-34.97	649381.26	591873.04	32°37'34.410"N	103°50'53.253"W	0.00	
6675.76†	0.000	338.670	6673.16	54.76	84.35	-34.97	649381.26	591873.04	32°37'34.410"N	103°50'53.253"W	0.00	
6775.76†	0.000	338.670	6773.16	54.76	84.35	-34.97	649381.26	591873.04	32°37'34.410"N	103°50'53.253"W	0.00	
6875.76†	0.000	338.670	6873.16	54.76	84.35	-34.97	649381.26	591873.04	32°37'34.410"N	103°50'53.253"W	0.00	
6975.76†	0.000	338.670	6973.16	54.76	84.35	-34.97	649381.26	591873.04	32°37'34.410"N	103°50'53.253"W	0.00	
7007.60†	0.000	338.670	7005.00	54.76	84.35	-34.97	649381.26	591873.04	32°37'34.410"N	103°50'53.253"W	0.00	Top Bone Spring Lime
7075.76†	0.000	338.670	7073.16	54.76	84.35	-34.97	649381.26	591873.04	32°37'34.410"N	103°50'53.253"W	0.00	
7175.76†	0.000	338.670	7173.16	54.76	84.35	-34.97	649381.26	591873.04	32°37'34.410"N	103°50'53.253"W	0.00	
7275.76†	0.000	338.670	7273.16	54.76	84.35	-34.97	649381.26	591873.04	32°37'34.410"N	103°50'53.253"W	0.00	
7375.76†	0.000	338.670	7373.16	54.76	84.35	-34.97	649381.26	591873.04	32°37'34.410"N	103°50'53.253"W	0.00	
7475.76†	0.000	338.670	7473.16	54.76	84.35	-34.97	649381.26	591873.04	32°37'34.410"N	103°50'53.253"W	0.00	
7575.76†	0.000	338.670	7573.16	54.76	84.35	-34.97	649381.26	591873.04	32°37'34.410"N	103°50'53.253"W	0.00	
7675.76†	0.000	338.670	7673.16	54.76	84.35	-34.97	649381.26	591873.04	32°37'34.410"N	103°50'53.253"W	0.00	
7775.76†	0.000	338.670	7773.16	54.76	84.35	-34.97	649381.26	591873.04	32°37'34.410"N	103°50'53.253"W	0.00	



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REFERENCE WELLPATH IDENTIFICATION

Operator	BOPCO, L.P.	Slot	No. 258H SHL
Area	Eddy County, NM	Well	No. 258H
Field	Big Eddy	Wellbore	No. 258H (PWB)
Facility	Big Eddy Unit No.258H & No. 259H		

WELLPATH DATA (166 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
7875.76†	0.000	338.670	7873.16	54.76	84.35	-34.97	649381.26	591873.04	32°37'34.410"N	103°50'53.253"W	0.00	
7975.76†	0.000	338.670	7973.16	54.76	84.35	-34.97	649381.26	591873.04	32°37'34.410"N	103°50'53.253"W	0.00	
8075.76†	0.000	338.670	8073.16	54.76	84.35	-34.97	649381.26	591873.04	32°37'34.410"N	103°50'53.253"W	0.00	
8175.76†	0.000	338.670	8173.16	54.76	84.35	-34.97	649381.26	591873.04	32°37'34.410"N	103°50'53.253"W	0.00	
8275.76†	0.000	338.670	8273.16	54.76	84.35	-34.97	649381.26	591873.04	32°37'34.410"N	103°50'53.253"W	0.00	
8308.60†	0.000	338.670	8306.00	54.76	84.35	-34.97	649381.26	591873.04	32°37'34.410"N	103°50'53.253"W	0.00	1st Bone Spring Sand
8375.76†	0.000	338.670	8373.16	54.76	84.35	-34.97	649381.26	591873.04	32°37'34.410"N	103°50'53.253"W	0.00	
8475.76†	0.000	338.670	8473.16	54.76	84.35	-34.97	649381.26	591873.04	32°37'34.410"N	103°50'53.253"W	0.00	
8520.00	0.000	338.670	8517.40	54.76	84.35	-34.97	649381.26	591873.04	32°37'34.410"N	103°50'53.253"W	0.00	Est KOP
8575.76†	5.353	338.670	8573.08	56.27	86.77	-35.92	649380.31	591875.47	32°37'34.434"N	103°50'53.264"W	9.60	
8675.76†	14.953	338.670	8671.40	66.54	103.18	-42.32	649373.91	591891.87	32°37'34.596"N	103°50'53.338"W	9.60	
8775.76†	24.553	338.670	8765.40	86.22	134.62	-54.60	649361.63	591923.31	32°37'34.908"N	103°50'53.480"W	9.60	
8875.76†	34.153	338.670	8852.46	114.76	180.23	-72.41	649343.82	591968.92	32°37'35.360"N	103°50'53.686"W	9.60	
8975.76†	43.753	338.670	8930.14	151.36	238.72	-95.25	649320.98	592027.40	32°37'35.940"N	103°50'53.950"W	9.60	
9075.76†	53.353	338.670	8996.25	195.00	308.46	-122.48	649293.75	592097.14	32°37'36.631"N	103°50'54.264"W	9.60	
9175.76†	62.953	338.670	9048.95	244.46	387.50	-153.35	649262.89	592176.17	32°37'37.415"N	103°50'54.621"W	9.60	
9215.92†	66.808	338.670	9066.00	265.66	421.36	-166.57	649249.67	592210.03	32°37'37.750"N	103°50'54.774"W	9.60	2nd Bone Spring A Sand
9275.76†	72.553	338.670	9086.77	298.35	473.61	-186.97	649229.27	592262.28	32°37'38.268"N	103°50'55.010"W	9.60	
9353.33	80.000	338.670	9105.16	342.25	543.76	-214.37	649201.88	592332.42	32°37'38.964"N	103°50'55.326"W	9.60	80° Inc.
9375.76†	80.000	338.670	9109.06	355.13	564.33	-222.40	649193.85	592352.99	32°37'39.168"N	103°50'55.419"W	0.00	
9475.76†	80.000	338.670	9126.42	412.53	656.07	-258.22	649158.03	592444.72	32°37'40.077"N	103°50'55.833"W	0.00	
9530.93†	80.000	338.670	9136.00	444.20	706.68	-277.98	649138.27	592495.33	32°37'40.578"N	103°50'56.061"W	0.00	2nd Bone Spring B Sand
9553.33	80.000	338.670	9139.89	457.07	727.23	-286.01	649130.24	592515.88	32°37'40.782"N	103°50'56.154"W	0.00	200' Tangent
9575.76†	82.131	338.670	9143.37	469.98	747.86	-294.07	649122.18	592536.51	32°37'40.987"N	103°50'56.247"W	9.50	
9658.60†	90.000	338.670	9149.05	518.12	824.78	-324.10	649092.15	592613.43	32°37'41.749"N	103°50'56.594"W	9.50	EOC
9675.76†	90.024	337.194	9149.05	528.30	840.69	-330.55	649085.70	592629.33	32°37'41.907"N	103°50'56.669"W	8.60	
9775.76†	90.166	328.595	9148.88	594.41	929.62	-376.07	649040.19	592718.26	32°37'42.789"N	103°50'57.196"W	8.60	
9875.76†	90.304	319.996	9148.47	670.98	1010.75	-434.37	648981.88	592799.38	32°37'43.594"N	103°50'57.874"W	8.60	
9975.76†	90.435	311.397	9147.83	756.28	1082.25	-504.15	648912.11	592870.87	32°37'44.305"N	103°50'58.686"W	8.60	
10075.76†	90.556	302.798	9146.96	848.39	1142.51	-583.84	648832.43	592931.13	32°37'44.905"N	103°50'59.614"W	8.60	

Conditions of Approval

1. The minimum required fill of cement behind the 7 x 5-1/2 inch production casing is:

Operator has proposed DV tool at depths of 5000'. Operator is to submit sundry if DV tool depth varies by more than 100' from approved depth.

- a. First stage to DV tool:

☒ Cement to circulate. If cement does not circulate, contact the appropriate BLM office before proceeding with second stage cement job. Operator should have plans as to how they will achieve circulation on the next stage.

- b. Second stage above DV tool:

☒ Cement should tie-back at least **50 feet above the Capitan Reef**. Operator shall provide method of verification.