

Submit To Appropriate District Office State Lease - 6 copies Fee Lease - 5 copies District I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Rd., Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505		State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505		Form C-105 Revised June 10, 2003 WELL API NO. 30-015-33908 5. Indicate Type of Lease STATE ☒ FEE ☐ State Oil & Gas Lease No.																																																																					
WELL COMPLETION OR RECOMPLETION REPORT AND LOG				7. Lease Name or Unit Agreement Name Forehand 22 State RECEIVED AUG 15 2005 OCU-ARTESIA 8. Well No. 001 9. Pool name or Wildcat Carlsbad;Morrow,South (Pro Gas)																																																																					
1a. Type of Well: OIL WELL ☐ GAS WELL ☒ DRY ☐ OTHER b. Type of Completion: NEW ☒ WORK ☐ DEEPEN ☐ PLUG ☐ DIFF. WELL OVER BACK RESVR. ☐ OTHER 2. Name of Operator Chesapeake Operating, Inc. 3. Address of Operator P. O. Box 11050 Midland, TX 79702-8050 4. Well Location Unit Letter <u>D</u> : <u>660</u> Feet From The <u>North</u> Line and <u>1285</u> Feet From The <u>West</u> Line Section <u>22</u> Township <u>23S</u> Range <u>27E</u> NMPM <u>Eddy</u> County 10. Date Spudded 04/08/2005 11. Date T.D. Reached 05/16/2005 12. Date Compl. (Ready to Prod.) 07/30/2005 13. Elevations (DF& RKB, RT, GR, etc.) 3142 GR 14. Elev. Casinghead 15. Total Depth 12450 16. Plug Back T.D. 12265 17. If Multiple Compl. How Many Zones? 18. Intervals Drilled By Rotary Tools 0 - 12450 Cable Tools 19. Producing Interval(s), of this completion - Top, Bottom, Name 11798 - 11814 Morrow A 20. Was Directional Survey Made Yes 21. Type Electric and Other Logs Run CBL/CCL/GR 22. Was Well Cored No				23. CASING RECORD (Report all strings set in well) <table><tr><th>CASING SIZE</th><th>WEIGHT LB./FT.</th><th>DEPTH SET</th><th>HOLE SIZE</th><th>CEMENTING RECORD</th><th>AMOUNT PULLED</th></tr><tr><td>13 3/8"</td><td>48#</td><td>444'</td><td>17 1/2"</td><td>495</td><td></td></tr><tr><td>8 5/8"</td><td>32#</td><td>5640'</td><td>11"</td><td>3100</td><td></td></tr><tr><td>5 1/2"</td><td>20 & 17#</td><td>12450'</td><td>7 7/8"</td><td>1270</td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr></table> 24. LINER RECORD <table><tr><th>SIZE</th><th>TOP</th><th>BOTTOM</th><th>SACKS CEMENT</th><th>SCREEN</th></tr><tr><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr></table> 25. TUBING RECORD <table><tr><th>SIZE</th><th>DEPTH SET</th><th>PACKER SET</th></tr><tr><td>2 3/8"</td><td>11707</td><td>11709</td></tr><tr><td></td><td></td><td></td></tr></table> 26. Perforation record (interval, size, and number) 12298 - 12306 w/4 spf (CIBP @ 12,275' + 10' cmt.) 12214 - 12217 w/4 spf (CBP @ 12,150) 11917 - 11932 w/2 spf (CBP @ 11,878 11798 - 11814 w/2 spf 27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC. <table><tr><th>DEPTH INTERVAL</th><th>AMOUNT AND KIND MATERIAL USED</th></tr><tr><td>11798 - 11814</td><td>1200 gals 7.5% HCL + 50 BS</td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr></table>		CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED	13 3/8"	48#	444'	17 1/2"	495		8 5/8"	32#	5640'	11"	3100		5 1/2"	20 & 17#	12450'	7 7/8"	1270														SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN											SIZE	DEPTH SET	PACKER SET	2 3/8"	11707	11709				DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED	11798 - 11814	1200 gals 7.5% HCL + 50 BS				
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28. PRODUCTION Date First Production 07/30/2005 Production Method (Flowing, gas lift, pumping - Size and type pump) Flowing Well Status (Prod. or Shut-in) producing Date of Test 08/04/2005 Hours Tested 24 Choke Size 26/64 Prod'n For Test Period Oil - Bbl 0 Gas - MCF 1443 Water - Bbl. 15 Gas - Oil Ratio Flow Tubing Press. 350 Casing Pressure 0 Calculated 24-Hour Rate Oil - Bbl. 0 Gas - MCF 1443 Water - Bbl. 0 Oil Gravity - API - (Corr.) 29. Disposition of Gas (Sold, used for fuel, vented, etc.) sold Test Witnessed By 30. List Attachments logs, C-102, C-104, Inclination Report 31. I hereby certify that the information shown on both sides of this form as true and complete to the best of my knowledge and belief Signature <u>Brenda Coffman</u> Printed Name <u>Brenda Coffman</u> Title <u>Regulatory Analyst</u> Date <u>08/11/2005</u> E-mail Address <u>bcoffinan@chkenergy.com</u>																																																																									

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, items 25 through 29 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico		Northwestern New Mexico	
T. Anhy	T. Canyon	T. Ojo Alamo	T. Penn "B"
T. Salt	T. Strawn 10838	T. Kirtland-Fruitland	T. Penn. "C"
B. Salt	T. Atoka 11184	T. Pictured Cliffs	T. Penn. "D"
T. Yates	T. Miss	T. Cliff House	T. Leadville
T. 7 Rivers	T. Devonian	T. Menefee	T. Madison
T. Queen	T. Silurian	T. Point Lookout	T. Elbert
T. Grayburg	T. Montoya	T. Mancos	T. McCracken
T. San Andres	T. Simpson	T. Gallup	T. Ignacio Otzte
T. Glorieta	T. McKee	Base Greenhorn	T. Granite
T. Paddock	T. Ellenburger	T. Dakota	T.
T. Blinebry	T. Gr. Wash	T. Morrison	T.
T. Tubb	T. Delaware Sand 2107	T. Todilto	T.
T. Drinkard	T. Bone Springs 5570	T. Entrada	T.
T. Abo	T. 11871 morro	T. Wingate	T.
T. Wolfcamp 8974	T. 12349 Barne	T. Chinle	T.
T. Penn	T.	T. Permian	T.
T. Cisco (Bough C) 10654	T.	T. Penn "A"	T.

OIL OR GAS SANDS OR ZONES

No. 1, from.....to..... No. 3, from.....to.....
 No. 2, from.....to..... No. 4, from.....to.....

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from.....to.....feet.....
 No. 2, from.....to.....feet.....
 No. 3, from.....to.....feet.....

LITHOLOGY RECORD (Attach additional sheet if necessary)

From	To	Thickness In Feet	Lithology	From	To	Thickness In Feet	Lithology
0	2100	2100	Sh/Anhy/Dolo/Salt				
2100	5570	3470	Sd/Shale				
5570	8980	3410	Sh/silt/lm				
8980	10650	1670	Lm/Sh				
10650	10840	190	Lm				
10840	11180	340	Sh/Lm				
11180	11690	510	Lm/Sd/sh				
11690	11870	180	Sh/Sandstone				
11870	12180	310	Sd/shale				
12180	12350	170	Sh/Siltstone				

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised June 10, 2003
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number 3-001-53390		2 Pool Code 73960		3 Pool Name Carlsbad;Morrow,South (Pro Gas)	
4 Property Code 34543		5 Property Name Forehand 22 State			6 Well Number 001
7 OGRID No. 147179		8 Operator Name Chesapeake Operating, Inc.			9 Elevation

10 Surface Location

UL or lot no. D	Section 22	Township 23S	Range 27E	Lot Idn	Feet from the 660	North/South line North	Feet from the 1285	East/West line West	County Eddy
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11 Bottom Hole Location If Different From Surface

UL or lot no. D	Section 22	Township 23S	Range 27E	Lot Idn	Feet from the 715	North/South line North	Feet from the 791	East/West line West	County Eddy
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12 Dedicated Acres 320	13 Joint or Infill	14 Consolidation Code	15 Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

16 	17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Signature Brenda Coffman Printed Name Regulatory Analyst bcoffman@chkenergy.com Title and E-mail Address 08/11/2005 Date	
	18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. Date of Survey Signature and Seal of Professional Surveyor: Certificate Number	
	RECEIVED AUG 15 2005 OCD-ARTESIA	

**McVAY DRILLING COMPANY**

Post Office Box 924
Hobbs, New Mexico 88241
(505) 397-3311
FAX: 39-DRILL

Well Name and Number: Forehand 22 St # 1

Location: Sec 22, T23S, R27E, Eddy County New Mexico

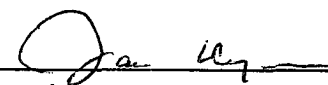
Operator: Chesapeake Operating

Drilling Contractor: McVay Drilling Company

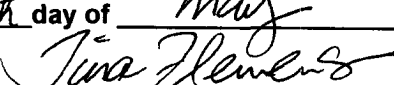
The undersigned certifies that he is an authorized representative of the drilling contractor who drilled the above described well and that he has conducted deviation tests and obtained the following results:

Degrees @ Depth		Degrees @ Depth		Degrees @ Depth	
3/4	208	3/4	5746	1/4	10889
2	418	2 1/4	5900	3/4	11074
1/2	533	2 1/4	6100	1/4	11197
1	657	4 3/4	6247	1/2	11258
1 3/4	830	7 3/4	6491	1	11320
1 1/2	1031	8 1/2	6743	1/4	11382
1 1/2	1159	8 1/2	6877	1/2	11536
2	1380	8 1/2	7005	1/4	11628
2 1/2	1672	8	7036	2 1/2	11720
3 3/4	1817	6	7639	1/2	11813
3	1904	7	7700	3/4	11805
4	1921	8 1/2	8272	1/2	11836
3	1983	8	8334	1/2	11967
2 1/2	2057	7	8779	3/4	12098
2 1/4	2110	7 1/2	8842	1	12150
1/4	2297	7 1/2	8905	1/4	12213
1/2	2422	9 1/2	8969	1/2	12275
1	2577	7	9032		
1 3/4	2578	6	9098		
1 1/2	2902	5 3/4	9415		
1	3179	5 3/4	9477		
1	3261	6 3/4	9540		
1	3575	7 3/4	9656		
1	3710	8 1/2	9851		
1	4041	7 3/4	9912		
1	4176	6 1/2	10097		
1	4457	3 1/4	10251		
3/4	4497	6 3/4	10435		
1	4676	8	10598		
1	5175	1	10766		

Drilling Contractor: McVay Drilling Company

By: 

Subscribed and sworn to before me this 27th day of May, 2005


Notary Public

My Commission Expires: 8-16-05

Lea County, New Mexico



MWD SURVEY REPORT

MWD Services, Inc.

Survey End Date : May 15, 2005
 Job Number : 05060
 Operator : Chesapeake Operating, Inc.
 Lease / Well : Forehand 22 State #1
 Location : Eddy County, New Mexico
 Field : Morrow
 Contractor / Rig : McVay Drilling 4
 Directional Company : Black Viper Energy Services, Ltd.
 MWD Field Rep. : Joseph Marquez
 Tie In Survey Reference : The Directional Drilling Company
 Calculation Method : Minimum Curvature

Target +N / -S = 50.0'
 Target +E / -W = -485.0'
 Target TVD = 12400.0'
 Magnetic Declination +E / -W = 8.59°
 Grid Convergence +E / -W = 0.08°
 Total Correction +E / -W = 8.59°
 North Reference = True
 RKB Height = 16.50'
 Ground Level Elevation = 0'
 Vertical Section Azimuth = 264.11°

Comments :

Survey #0 = Tie In Survey
 Survey #28 = Projected Survey To Bit Depth

Srv. No.	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (deg/100')
							+N / -S (ft)	+E / -W (ft)	Distance (ft)	Azimuth (deg)	
0	10587.00'	0.80°	61.60°		10550.50'	488.84'	-47.80'	-486.50'	488.84'	264.39°	
1	10663.00'	0.40°	217.90°	76'	10626.50'	488.53'	-47.76'	-486.20'	488.54'	264.39°	1.55°
2	10744.00'	0.90°	215.00°	81'	10707.49'	489.14'	-48.50'	-486.73'	489.15'	264.31°	0.62°
3	10805.00'	1.00°	235.50°	61'	10768.48'	489.92'	-49.20'	-487.45'	489.92'	264.24°	0.58°
4	10867.00'	0.60°	263.00°	62'	10830.48'	490.72'	-49.54'	-488.22'	490.72'	264.21°	0.88°
5	10897.00'	0.80°	286.20°	30'	10860.48'	491.07'	-49.50'	-488.57'	491.07'	264.21°	1.14°
6	10959.00'	0.40°	274.80°	62'	10922.47'	491.69'	-49.36'	-489.20'	491.69'	264.24°	0.67°
7	11021.00'	0.80°	259.00°	62'	10984.47'	492.33'	-49.43'	-489.85'	492.33'	264.24°	0.69°
8	11082.00'	0.70°	203.10°	61'	11045.46'	492.94'	-49.85'	-490.41'	492.94'	264.20°	1.16°
9	11144.00'	0.00°	231.70°	62'	11107.46'	493.12'	-50.20'	-490.56'	493.12'	264.16°	1.13°
10	11205.00'	0.40°	305.80°	61'	11168.46'	493.28'	-50.08'	-490.73'	493.28'	264.17°	0.66°
11	11267.00'	0.50°	271.40°	62'	11230.46'	493.71'	-49.94'	-491.18'	493.71'	264.19°	0.46°
12	11328.00'	0.90°	279.70°	61'	11291.46'	494.43'	-49.85'	-491.92'	494.43'	264.21°	0.67°
13	11390.00'	0.10°	263.40°	62'	11353.45'	494.96'	-49.78'	-492.45'	494.96'	264.23°	1.30°
14	11421.00'	0.30°	74.70°	31'	11384.45'	494.90'	-49.76'	-492.40'	494.91'	264.23°	1.29°
15	11482.00'	0.30°	109.90°	61'	11445.45'	494.60'	-49.77'	-492.09'	494.60'	264.22°	0.30°
16	11544.00'	0.20°	22.50°	62'	11507.45'	494.41'	-49.73'	-491.90'	494.41'	264.23°	0.57°
17	11636.00'	0.30°	223.20°	92'	11599.45'	494.51'	-49.76'	-492.00'	494.51'	264.23°	0.53°
18	11729.00'	0.40°	208.00°	93'	11692.45'	494.88'	-50.22'	-492.32'	494.88'	264.18°	0.15°
19	11821.00'	0.40°	259.00°	92'	11784.45'	495.37'	-50.56'	-492.79'	495.37'	264.14°	0.37°
20	11913.00'	0.80°	236.10°	92'	11876.44'	496.26'	-50.98'	-493.64'	496.26'	264.10°	0.50°
21	11944.00'	0.60°	243.10°	31'	11907.44'	496.60'	-51.18'	-493.96'	496.60'	264.08°	0.70°
22	11975.00'	0.40°	253.30°	31'	11938.44'	496.86'	-51.28'	-494.21'	496.86'	264.08°	0.70°
23	12036.00'	0.10°	112.50°	61'	11999.44'	497.02'	-51.36'	-494.36'	497.02'	264.07°	0.79°
24	12129.00'	0.80°	170.00°	93'	12092.44'	496.91'	-52.03'	-494.18'	496.91'	263.99°	0.81°
25	12160.00'	0.90°	179.10°	31'	12123.43'	496.91'	-52.49'	-494.13'	496.91'	263.94°	0.54°
26	12221.00'	0.10°	108.30°	61'	12184.43'	496.91'	-52.99'	-494.08'	496.91'	263.88°	1.43°
27	12283.00'	0.50°	195.10°	62'	12246.43'	496.95'	-53.27'	-494.10'	496.96'	263.85°	0.81°

Srv. No.	Survey Depth	Inclination	Azimuth	Course Length	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity
	(ft)	(deg)	(deg)	(ft)			+N / -S (ft)	+E / -W (ft)	Distance (ft)	Azimuth (deg)	(deg/100 ')
28	12450.00'	1.00°	230.50°	167'	12413.41'	498.43'	-54.90'	-495.41'	498.44'	263.68°	0.39°